New Zealand Department of Scientific and Industrial Research
GEOPHYSICS DIVISION

NEW ZEALAND

SEISMOLOGICAL REPORT

1972

SEISMOLOGICAL OBSERVATORY BULLETIN
E – 152

12

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SEISMOLOGICAL OBSERVATORY, WELLINGTON, NEW ZEALAND.

ALL measurement and interpretation of records is carried out at the central station in Wellington. Communications should therefore be addressed to

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CAMPBELL ISLAND

Observer: C.J. Glasson.

SCOTT BASE

Observer: K.M. Weatherall.

INTRODUCTION

The New Zealand Seismological Report for 1972 is the first that has been wholly produced since the reorganisation described in this introduction in 1971 was completed. The arrangement adopted in previous Reports is retained without further changes, except that shocks known to have been felt can now be more readily identified by the appearance of an asterisk added to the reference number given in the List of Origins.

The Reports for 1969 and 1970 have not yet been published, but work on them is proceeding steadily. Readings of distant earthquakes have been forwarded to international data centres, and epicentres of New Zealand earthquakes are almost complete to the end of 1969 September, and for 1970 November and December. Seismologists urgently needing New Zealand data for the intervening period are advised to consult the Observatory, as sections of the material may be available in manuscript. Definitive epicentres of current earthquakes are available within about six weeks of their occurrence, and these Reports are ready for printing by about the middle of the following year.

STATIONS OF THE NEW ZEALAND NETWORK

THE NETWORK IN 1972

The New Zealand seismograph network now consists of 35 stations covering the two main islands of New Zealand proper, and extending over the south-west Pacific from Samoa, Fiji and Rarotonga to the Antarctic. The stations are of two kinds, one having short-period instruments intended to record shocks originating within about 1000 km, and the other having long-period instruments designed to provide information about more distant earthquakes, and about the interior structure of the Earth. These functions interlock, and every station yields information of use in both fields.

On June 8, a new station was opened at Kaikoura West on the east coast of the South Island, 150 km north of the stations at Christchurch and Gebbies Pass. This station fills a persistent and serious gap in the uniform coverage of the country, but is still only temporary. A permanent site has been selected about 500 m east of the present installation, and the station will be moved when buildings become available.

The station at Castlepoint, which had been temporarily inoperative, again began reading on July 17.

At Waipapa Point, where the only site available was in a sandy location on an exposed coast, the seismometer has now been lowered to the bottom of a drill-hole some 13 metres deep, and it has been found possible to increase the magnification from 3,000 to nearly 13,000.

A temporary station near Puysegur Point operated from April 6 to April 24, and has been used in locating a few events in the Fiordland region.

THREE-LETTER STATION CODES

Throughout the tabular sections of this Report, stations are identified by the international three-letter abbreviations allotted by the U.S. National Ocean Survey and used by the International Seismological Centre, Edinburgh. Codes for stations of the New Zealand network are:

Afiamalu	AFI	Gisborne	GNZ	Raoul Island	RAO
Apia	API	Great Barrier	GBZ	Rarotonga	RAR
Auckland	AUC	Kaikoura West	KKY	Roxburgh	ROX
Campbell Island	CBZ	Kaimata	KAI	Scott Base	SBA
Cape Reinga	CRZ	Karapiro	KRP	Suva	SUV
Castlepoint	CAZ	Mangahao	MNG	Taradale	TRZ
Chateau	CNZ	Milford Sound	MSZ	Tarata	TNZ
Chatham Island	CIZ	Monowai	MNW	Tuai	TUA
Christchurch	CHR	Mount John	MJZ	Waipapa Point	WPZ
Cobb River	COB	Nandi	NDF	Wairakei	WNZ
East Cape	ECZ	Oamaru	OMZ	Wellington	WEL
Gebbies Pass	GPZ	Onerahi	ONE	Whakatane	WTZ
		Puysegur Point	PPZ		

INDEX OF STATION POSITIONS

STN	LATITUDE D M S	LONGITUDE D M S	ALT M	GEOCENTRIC DIRECTION COSINES A	B	C
AFI	13 54 34 S	171 46 38 W	706	-0,961 070	-0,138 881	-0,238 869
API	13 48 26 S	171 46 30 W	2	-0,961 482	-0,138 979	-0,237 142
AUC	36 51 36 S	174 46 41 E	79	-0,798 711	+0,072 996	-0,597 271
CAZ	40 54 15 S	176 13 34 E	6	-0,756 343	+0,049 889	-0,652 270
CBZ	52 33 03 S	169 09 33 E	30	-0,599 744	+0,114 849	-0,791 907
CHR	43 31 58 S	172 37 36 E	8	-0,721 282	+0,093 336	-0,686 324
CIZ	43 57 18 S	176 33 56 W	45	-0,720 923	-0,043 206	-0,691 663
CNZ	39 12 00 S	175 32 51 E	1116	-0,774 682	+0,060 322	-0,629 467
COB	41 05 16 S	172 44 02 E	213	-0,749 824	+0,095 603	-0,654 694
CRZ	34 25 55 S	172 40 47 E	140	-0,819 834	+0,105 317	-0,562 833
ECZ	37 41 37 S	178 32 46 E	40	-0,793 026	+0,020 126	-0,608 859
GBZ	36 13 04 S	175 28 52 E	70	-0,806 157	+0,063 712	-0,588 262
GNZ	38 38 39 S	178 01 21 E	30	-0,782 622	+0,027 021	-0,621 911
GPZ	43 41 47 S	172 38 40 E	225	-0,719 365	+0,092 861	-0,689 397
KAI	42 31 33 S	171 24 31 E	82	-0,730 944	+0,110 432	-0,673 443
KKY	42 25 12 S	173 41 31 E	101	-0,735 998	+0,081 339	-0,672 078
KRP	37 55 30 S	175 32 15 E	64	-0,788 423	+0,061 530	-0,612 049
MJZ	43 59 14 S	170 27 58 E	1000	-0,711 861	+0,119 537	-0,692 069
MNG	40 37 07 S	175 28 55 E	396	-0,758 859	+0,059 963	-0,648 488
MNW	45 46 49 S	167 37 07 E	155	-0,683 548	+0,150 054	-0,714 315
MSZ	44 40 14 S	167 55 01 E	38	-0,697 720	+0,149 361	-0,700 627
NDF	17 45 25 S	177 27 00 E	30	-0,952 009	+0,042 397	-0,303 118
OMZ	45 04 14 S	170 54 53 E	95	-0,699 729	+0,111 893	-0,705 591
ONE	35 46 33 S	174 21 45 E	30	-0,809 242	+0,079 881	-0,582 020
PPZ	46 08 26 S	166 37 36 E	3	-0,676 463	+0,160 823	-0,718 702
RAO	29 15,1 S	177 55,1 W	110	-0,873 304	-0,031 742	-0,486 140
RAR	21 12 45 S	159 46 24 W	28	-0,875 524	-0,322 592	-0,359 711
ROX	45 28 33 S	169 19 13 E	106	-0,691 423	+0,130 391	-0,710 586
SBA	77 51 01 S	166 45 22 E	38	-0,206 194	+0,048 529	-0,977 307
TNZ	39 11 14 S	174 22 49 E	123	-0,773 432	+0,076 103	-0,629 294
TRZ	39 33 12 S	176 49 17 E	17	-0,771 946	+0,042 888	-0,634 241
TUA	38 48 29 S	177 09 02 E	274	-0,780 343	+0,038 839	-0,624 145
WEL	41 17 10 S	174 46 06 E	122	-0,750 486	+0,068 717	-0,657 304
WNZ	38 37 53 S	176 06 10 E	350	-0,781 415	+0,053 232	-0,621 736
WPZ	46 39 37 S	168 50 59 E	15	-0,675 767	+0,133 195	-0,724 982
WTZ	37 59 05 S	176 59 18 E	43	-0,789 091	+0,041 515	-0,612 871

TIMING ARRANGEMENTS

The Seismological Observatory is administratively responsible for the New Zealand Time Service, which broadcasts 15 sets of time-signals daily through the stations of the New Zealand Broadcasting Corporation. These signals, whose error seldom exceeds 20 msec, are automatically impressed upon the records at all stations within New Zealand. The arrangements used have been described by B.H. Olsson (N.Z.Journal of Science and Technology, Vol. 37B, pp. 115-8, 1955 Sep.). Minute marks are derived from a quartz crystal clock, except at Wairakei, which has an electric pendulum clock of the Synchronome type. Stations of the World-Wide Standard Seismograph Network have the timing arrangements usual at such stations. At Suva, the operator records several time-signals a day by depressing a hand-key when the signal is heard.

INSTRUMENTATION AND LITHOLOGY

Stations are listed in the alphabetical order of their international three-letter code designations. Pendulum and galvanometer periods To and Tg are given in seconds. The damping of electromagnetic instruments, when not listed, may be assumed to be critical. Magnifications listed are for the period of maximum response.

	Instrument	Compt	To	Tg	Damping	Magnification
AFI	AFIAMALU					
	World-Wide Standard Station. Foundation: Basaltic lava flows.					
	Benioff	ZNE	1.0	0.75		12,500 at 1.0 s
	Press-Ewing	ZNE	15	100		750 at 15 s
API	APIA					
	Foundation: Coral sand on Recent and Pleistocene basalt.					
	Johnson-Matheson (photo-cell amplifier used with heated stylus recorder.)	Z	1.2	0.2		
AUC	AUCKLAND					
	Foundation: Volcanic beds on Tertiary sandstone and mudstone.					
	Willmore I (photo-cell amplifier used with pen-and-ink recorder.)	Z	1	1		7,600 at 0.8 s
CAZ	CASTLEPOINT					
	Foundation: Quaternary mudstone.					
	Willmore I	Z	1.0	0.25		2,900 at 0.25 s
CBZ	CAMPBELL ISLAND					
	Foundation: Basalt.					
	Willmore II	Z	1	0.25		5,000 at 0.25 s
CHR	CHRISTCHURCH					
	Foundation: Alluvial sands, tilts and gravels.					
	Willmore I (photo-cell amplifier used with pen-and-ink recorder.)	Z	1.0	2.0		4,700 at 0.66 s

CIZ CHATHAM ISLAND

Foundation: Clay over basalt.

Willmore II	Z	1.0	0.25	4,440 at 0.2 s
	N	1.0	0.25	5,110 at 0.25 s
	E	1.0	0.25	4,400 at 0.2 s

CNZ CHATEAU

Foundation: Volcanic ash and lava.

Willmore I	Z	1.0	0.25	44,980 at 0.3 s

COB COBB RIVER

Foundation: Schist.

Willmore II	Z	1.0	0.25	27,450 at 0.2 s

CRZ CAPE REINGA

Foundation: Cretaceous basic volcanics.

Willmore II	Z	1.0	0.25	9,345 at 0.25 s
	N	1.0	0.25	10,200 at 0.2 s
	E	1.0	0.25	9,785 at 0.2 s

ECZ EAST CAPE

Foundation: Mudstone and sandstone.

Willmore II	Z	1.0	0.25	5,275 at 0.25 s

GBZ GREAT BARRIER

Foundation: Tertiary volcanics.

Willmore II	Z	1.0	0.25	23,750 at 0.25

GNZ GISBORNE

Foundation: Alluvium on Tertiary mudstone.

Willmore II	Z	1.0	0.25	23,970 at 0.25 s
	N	1.0	0.25	25,550 at 0.2 s
	E	1.0	0.25	26,110 at 0.2 s

GPZ GEBBIES PASS

Foundation: Rhyolite.

Wood-Anderson	N	0.8	crit.	2,800

KAI KAIMATA

Foundation: Moraine and river gravels over Tertiary mudstone and sandstone.

Wood-Anderson	X	0.8	crit.	2,800

This instrument is oriented so that the X component lies north-east.

KKY KAIKOURA WEST

Foundation: Tertiary limestone and sandstone.

Willmore II	Z	1.0	0.2	40,000 at 0.2 s

35 mm film recorder. Magnification as seen on 8x viewer.

KRP KARAPIRO

Foundation: Greywacke.

Benioff	Z	1.0	0.25	36,500 at 0.3 s
	N	1.0	0.25	40,000 approx., unstable.
	E	1.0	0.25	43,180 at 0.5 s

MJZ MOUNT JOHN

Foundation: Greywacke.

Willmore II	Z	1.0	0.25	30,480 at 0.25 s
	N			43,600 at 0.25 s
	E			41,050 at 0.25 s

MNG MANGAHAO

Foundation: Greywacke.

Willmore II	Z	1.0	0.25	48,620 at 0.33 s

MNW MONOWAI

Foundation: Tertiary sandstone.

Willmore II	Z	1.0	0.25	28,750 at 0.25 s

MSZ MILFORD SOUND

Foundation: Gneiss.

Willmore II	Z	1	0.25	52,650 at 0.25 s

NDF NANDI

Foundation: Recent clays.

Willmore II (photo-cell amplifier used with heated stylus recorder.)

	Z	1.25	0.2	6,000 approx.

OMZ OAMARU

Foundation: Recent deposits overlying Tertiary limestone.

Willmore II	Z	1.0	0.2	11,710 at 1.0 s

ONE ONERAHI

Foundation: Basalt.

Wood-Anderson	E	0.8	crit.	2,800

PPZ PUYSEGUR POINT

Temporary station, April 6 to 24.

Foundation: Tertiary sandstone.

Kinemetrics portable. Magnification varied during the period of operation.

RAO RAOUL ISLAND

Foundation: Volcanic rock.

Willmore II	Z	1.0	0.25	4,800 at 0.25 s

RAR RAROTONGA

World-Wide Standard Station.
Foundation: Basalt.

Benioff	ZNE	1.0	0.75	6,250 at 1 s
Press-Ewing	ZNE	15	100	375 at 15 s

ROX ROXBURGH

Foundation: Chlorite schist.

Willmore I	Z	1.0	0.25	12,100 at 0.25 s
Galitzin	Z	12	12	200 approx.
	NE	24	24	300 approx.

SBA SCOTT BASE

World-Wide Standard Station.
Foundation: Frozen basaltic debris resting on lava-flows.

Benioff	ZNE	1.0	0.75		6,250 (summer) 25,000 (winter)
Press-Ewing	ZNE	30	100		750 (summer) 1,500 (winter)

TNZ TARATA

Foundation: Pleistocene mudstone.

Willmore II	Z	1.0	0.25		4,665 at 0.2 s

TRZ TARADALE

Foundation: Quaternary sands and silts, overlying Tertiary limestone.

Willmore II	Z	1.0	0.25		1,154 at 1.0 s

TUA TUAI

Foundation: Thick Tertiary sandstone and mudstone.

Willmore II	Z	1.0	0.25		7,500 at 0.2 s

WEL WELLINGTON

World-Wide Standard Station.
Foundation: Greywacke.

Benioff	ZNE	1.0	0.75		6,250 at 1.0 s
Press-Ewing	ZNE	15	100		750 at 15 s
Willmore II	Z	1.0	0.25		22,750 at 0.20 s
Wood-Anderson	NE	0.8		crit.	1,400
Imamura	Z	1		5:1	1
	NE	4		5:1	1

The Willmore Z instrument operates at the bottom of a borehole approximately 60 metres deep. The Benioff vertical component operates both photographic and heated-stylus recorders. There is also a pen-and-ink recorder operated by a Willmore I seismometer.

WNZ WAIRAKEI

Foundation: Pumice breccia.

Willmore I	Z	1.0	0.25		200 (approx.)

WPZ WAIPAPA POINT

Foundation: Sand overlying Jurassic sediments.

Willmore II	Z	1	0.25		3,000 at 0.2 s (until Jun 11) 12,925 at 0.2 s (from Jun 11)

On April 25 the seismometer was lowered to the bottom of a borehole 13 m deep, and now rests on Jurassic sandstone at approximately mean sea level.

WTZ WHAKATANE

Foundation: Weathered Jurassic greywacke.

Willmore II	Z	1.0	0.2		4,590 at 1.0 s

EARTHQUAKES IN THE NEW ZEALAND REGION

PRINCIPAL EARTHQUAKES IN 1972

Although most parts of New Zealand except Northland experienced earthquakes in 1972, no shock within the country reached magnitude 6, and the year must be considered a quiet one. A shallow shock of magnitude 6.2, some 750 km north-east of East Cape (Reference number 72/362), on July 16 was the nearest fairly large event.

Two shocks in Fiordland, on March 23 and December 23 (Nos. 72/144 and 72/660), reached magnitude 5.8. The former was felt throughout western Southland south of Milford Sound, reaching MM5 at Puysegur Point and Monowai, but the latter shock was unreported. A third moderate shock in Fiordland, of magnitude 5.1 (No. 72/673), occurred on December 29, and also failed to produce felt reports.

The greatest public interest centred about the shock near Te Aroha on January 8 (No. 72/007). This was also a shallow shock of magnitude 5.1, with a felt area that included the city of Auckland, Whakatane, Hamilton, and Rotorua. Because of the small focal depth (12 km) and the closeness of the origin, the shock produced intensities of about MM7 in Te Aroha, causing damage to many chimneys, displacing furniture, and moving goods from shelves. In the grandstand of the Te Aroha Jockey Club internal partitions collapsed, and headstones in the nearby cemetery were overturned and damaged. Differences in subsoil conditions caused the western part of the town on the alluvial plain of the Waihou River to be more severely affected than the eastern part on the slopes of the hill. Isolated chimney damage extended to Morrinsville about 20km from the epicentre, and at Hautapu, 40 km to the south-west, existing small cracks in a 40 m high brick chimney were enlarged and extended. The Earthquake and War Damage Commission received about 1300 insurance claims amounting to some $160,000. A fuller account of this shock, including photographs and an isoseismal map, has been published by Adams, Muir and Kean (Bull. N.Z. Soc. Eq. Engng., Vol. 5, No. 2, pp. 54-58, 1972 June).

Numerous aftershocks followed, and continued for some months, until at least September 12 (No. 72/441). At the end of January, two had exceeded magnitude 4 (Nos. 72/008 and 72/032), and eighteen had exceeded magnitude 3.5. There were two other shocks of magnitude 4.1, on June 23 (No. 72/320) and July 1 (No. 72/329). An analysis of the magnitude/frequency relationship in the aftershock sequence is given in the paper cited above.

Three other shocks in the Main Seismic Region attracted widespread attention. The first, on March 14 (No. 72/122) was felt throughout Nelson and southern Taranaki, and in western parts of Wellington and Marlborough. Its magnitude was 5.2, and its epicentre close to the northern tip of D'Urville Island. Felt intensities exceeded MM5, with isolated instances of minor damage.

On July 30, a magnitude 5.1 shock centred about 40 km north-east of Masterton (No. 72/377) produced intensities of MM5 over most of the Wairarapa and was felt throughout central and southern parts of the North Island. An isolated report of MM3 from Rotorua should be regarded cautiously. A third shock, of magnitude 5.2 (No. 72/651) occurred on December 21, about 20 km inland from Cape Turnagain in southern Hawke's Bay, again affecting southern parts of the North Island, with reported intensities of MM5 and above near the epicentre.

Of the deep shocks with magnitude greater than 5 that occurred within the land area of New Zealand, the largest occurred on January 8 near Rotorua

(No. 72/006). Its depth was 227 km and its magnitude 5.4. The only felt reports were from Patoka in western Hawke's Bay and from Wellington city, both of which experienced intensities of MM4. A magnitude 5.0 earthquake about 50 km to the south-west on February 12 (No. 72/117), with a focal depth of 203 km, was not felt, and the slightly larger and deeper shock on October 12 (No. 72/491) was reported only from Masterton and the Wellington area. Its magnitude was 5.2, its depth 274 km, and its epicentre a further 50 km to the south-west. Another deep shock of magnitude 5.1 and a depth of 202 km on August 11 (No. 72/389) was also unfelt. This curious pattern of felt intensities is usual, but imperfectly understood.

Two other deep shocks of similar magnitude were felt. Both were assigned magnitudes of 5.2. The deeper, on December 10 (No. 72/613), occurred at a depth of 218 km, about midway between Taupo and Egmont, and was felt in Wanganui, Waipawa, Dannevirke and Wellington. The other, beneath the Manawatu, on May 1, had a depth of only 100 km (No. 72/225), producing intensities of MM5 in the central North Island and parts of Taranaki. The southern and eastern limits of the felt area are Levin, Masterton and Dannevirke.

Other deep shocks of comparable magnitude lie far to the north-east of East Cape, as do a number of very deep shocks such as that on September 10 (No. 72/439), to which a depth of 662 km was assigned. Within New Zealand proper the deepest shocks (Nos. 72/127, 72/244, 72/376 and 72/553) have depths slightly greater than 300 km and epicentres in the Bay of Plenty.

The origins of a number of deep shocks in the Fiordland Region have been determined. None of them reached magnitude 5. There is no obvious reason for rejecting the depth of 135 km assigned to the magnitude 3.8 earthquake that occurred to the west of Stewart Island on September 29 (No. 72/467), but in the absence of stations closer than Monowai and Waipapa Point it is not possible to claim that it affords conclusive proof of deep activity to the south of the Fiordland Region. This applies even more strongly to an earlier shock (No. 65/177) further to the south and discussed in the Report for 1965 (E-146).

Improvements in the recording network have increased the precision with which depths in the range 40-100 km can be assigned. As a result, the map of deep focus activity shows a number of epicentres further to the east than in earlier years. A good example is the shock near Cape Campbell on December 13 (No. 72/621) to which a depth of 68 km has been assigned. The deepest of these earthquakes, on January 3, is assigned a depth of 81 km. Others, at depths of 60 to 70 km, are Nos. 72/174, 72/519 and 72/530. All these shocks are small, the largest being the Cape Campbell earthquake, with a magnitude of 4.1. Three slightly deeper shocks in the East Cape peninsula (Nos. 72/446, 72/451, and 72/453) cannot be considered abnormal, as some broadening of the belt of deep activity in this region has been observed for at least 20 years.

The systematic uncertainties that affect depth and position determinations increase with distance from the recording stations, particularly when these are not well distributed in azimuth. For this reason, lesser weight should be placed upon the origins assigned to shocks far to the north and east of East Cape. Three earthquakes close to the axis of the Hikurangi Trench, between 36° and 39°S (Nos. 72/87, 72/473, and 72/620), have been assigned depths of 176, 156, and 114 km respectively, but the uncertainties make it unwise to attach tectonic significance to them without a closer examination of the data upon which the attributions rest.

A shallow earthquake in an area of less frequent activity occurred near Sheffield, 40 km west of Christchurch, on February 29 (No. 72/090). It had a magnitude of 4.4, and was felt at Lake Coleridge and Lyttelton, the reported intensity reaching MM5.

A series of shallow earthquakes centred about 10 km south of Rotorua occurred on April 4 (Nos. 72/166 to 72/169). The two largest had magnitudes of 4.6. Although the shocks were felt locally, they caused no damage, and no unusual volcanic or geothermal manifestations were reported.

LIST OF
INSTRUMENTALLY DETERMINED
ORIGINS

The following chronological list of the origins of New Zealand earthquakes is a summary of the determinations included in the next section of the Report, in which the detailed readings for each recording station are given. The Reference Number allocated in the first column of this list is used to identify the same shock in other sections of the Report. Date, Origin Time, Latitude and Longitude should be self-explanatory. Focal depths are given in kilometres, but it should be noted that when shocks are within the crust, the computer is restricted to solutions at depths of 12 to 33 km. The shallower depth is assigned if either of the phases Pg or Sg has been identified, and the greater depth if P* or S* is present without Pg or Sg. Quantities so restricted are identified by the letter R. The magnitude given conforms with Richter's original magnitude scale and is a mean of all separate determinations shown with the detailed station readings. S E is the standard error of the time residuals (in seconds), of those phases that have been used in obtaining the solution. In cases where the number of readings is exactly the number needed for a formal solution the letters ND (Not Defined) appear. NUM OBS is the number of separate phase readings used, and NUM STN the number of stations that recorded the shock, whether the readings were used in the epicentral solution or not.

The lists are intended to contain all shocks of magnitude 4.0 and above within the New Zealand region, together with those shocks of lower magnitude or beyond the boundary of the region, that have been reported felt. The boundary of the region is taken at approximately 10° from Wellington. Because accurate distance estimates cannot be made until the final stages of the interpretation, the readings of a few local shocks near the boundary will be found only in the "Distant" section of the Report, and vice versa. An asterisk following a reference number indicates that the shock is known to have been felt.

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/001	JAN 01	00	46	45.8	38.41S	175 94E	12	R	3.6	1.4	12	8
002*	03	11	18	49.1	41.09S	175 82E	81		4.0	0.9	14	10
003	06	06	43	55.5	31.13S	178 04W	33	R	5.9	5.2	10	8
004	06	10	28	57.1	39.06S	176 18E	121		4.4	1.8	19	13
005	07	03	03	21.8	39.84S	176 93E	33	R	4.2	0.4	12	13
006*	08	11	39	14.2	38.06S	176 27E	227		5.4	1.6	24	14
007*	08	21	33	00.1	37.58S	175 69E	12	R	5.1	2.6	31	14
008	08	21	36	20.6	37.52S	175 70E	12	R	4.6	1.3	14	10
009*	08	21	58	03.1	37.58S	175 99E	12	R	3.4	1.0	6	4
010	08	22	37	50.2	37.58S	175 87E	12	R	3.9	1.7	7	4
011	09	14	25	48.9	39.94S	176 27E	12	R	3.0	1.5	6	3
012	10	04	24	37.6	44.45S	169 63E	12	R	3.9	1.5	18	8
013*	10	13	16	41.8	37.56S	175 77E	12	R	3.3	1.7	12	6
014	12	01	46	25.4	44.71S	167 45E	66		3.9	1.1	11	6
015	12	04	40	41.8	45.28S	166 71E	33	R	4.3	1.6	10	7
016*	12	04	44	33.4	37.48S	175 76E	12	R	3.8	1.3	15	10
017	12	08	53	06.1	38.31S	176 13E	172		4.0	1.3	18	11
018*	12	15	07	40.2	37.58S	175 69E	12	R	3.1	0.6	8	4
019*	12	16	00	08.7	37.59S	175 69E	12	R	3.8	1.2	19	12
020*	12	17	12	09.6	37.57S	175 71E	12	R	3.7	1.4	19	11
021	14	03	32	50.9	49.19S	163 97E	33	R	4.1	0.7	6	4
022	14	13	40	37.9	38.34S	179 01W	33	R	4.6	1.3	10	8
023	15	04	53	15.3	37.49S	176 63E	258		4.2	0.9	11	9
024	15	15	35	38.8	46.07S	167 25E	12	R	4.3	1.7	17	8
025	16	06	22	35.2	43.30S	168 56E	33	R	4.1	1.1	14	9
026	16	18	39	53.2	43.24S	170 84E	12	R	3.8	1.3	13	7
027	16	19	00	46.0	43.24S	170 87E	12	R	3.8	1.6	15	7
028*	17	15	27	31.7	40.96S	172 84E	203		4.4	1.5	22	14
029	17	16	32	03.7	39.00S	175 49E	12	R	3.5	0.8	12	8
030	17	16	48	39.0	39.01S	175 57E	12	R	3.5	1.0	12	8
031	17	18	48	45.1	38.99S	175 53E	12	R	3.7	1.5	14	9
032*	17	19	25	48.8	37.58S	175 69E	12	R	4.1	1.8	19	11
033*	19	01	20	38.3	41.28S	175 21E	12	R	3.6	0.9	7	4
034	19	05	07	43.7	39.59S	177 29E	12	R	3.8	1.4	11	8
035	19	05	10	22.9	39.58S	177 22E	12	R	3.8	1.0	11	8
036	20	03	38	44.8	45.05S	167 63E	124		4.3	1.5	12	7
037	20	13	05	07.5	37.35S	175 45E	33	R	3.3	1.4	9	6
038	21	04	40	13.6	32.72S	178 69W	267		4.9	0.8	13	10
039	21	20	38	39.5	39.27S	176 00E	174		4.0	1.5	11	7
040	21	21	55	33.2	45.11S	167 65E	123		3.9	1.0	7	5
041	22	21	52	23.2	33.00S	178 80W	295		5.0	1.3	14	10
042	23	15	52	20.0	45.29S	166 60E	33	R	4.2	1.4	11	7
043	23	16	20	06.8	46.88S	167 34E	110		4.1	1.3	14	8
044	24	16	57	29.7	39.00S	173 45E	33	R	3.9	1.6	16	9
045	24	17	38	40.0	38.38S	177 63E	12	R	3.4	1.5	14	8
046*	25	00	04	13.4	38.65S	176 16E	12	R	3.1	1.3	10	7
047	26	01	29	25.0	37.82S	176 74E	12	R	3.7	1.7	11	7
048	26	08	05	29.6	37.74S	176 80E	12	R	3.6	0.9	12	9
049	27	02	05	44.2	38.21S	175 99E	169		3.8	1.3	11	7
050	27	04	56	20.4	38.03S	176 57E	162		3.7	1.8	11	7

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/051	JAN 27	13	40	28.0	40.62S	176 95E	12	R	4.0	1.5	25	10
052	27	14	10	03.2	39.30S	175 15E	150		4.1	1.2	19	11
053	28	03	16	03.1	37.63S	178 73E	33	R	4.4	1.8	20	12
054	28	14	02	29.2	42.33S	172 99E	12	R	4.0	1.5	23	11
055	29	00	31	23.3	35.17S	179 55W	33	R	4.4	2.0	19	11
056	31	09	05	56.2	39.07S	174 95E	234		4.1	1.7	18	11
057	FEB 01	02	41	53.5	40.44S	176 72E	12	R	4.1	1.6	20	10
058*	01	06	07	05.4	41.66S	172 32E	12	R	3.2	1.4	9	5
059*	01	09	54	00.4	44.09S	170 59E	12	R	3.7	1.1	14	7
060	02	17	28	30.8	38.77S	176 08E	113		4.0	1.6	20	15
061	04	01	22	22.4	39.15S	174 63E	226		5.2	2.0	34	20
062	04	13	07	36.0	37.69S	176 95E	184		4.3	1.6	28	20
063	10	13	04	46.1	39.18S	174 69E	233		4.4	1.8	27	15
064	11	14	39	33.0	38.19S	177 10E	12	R	4.1	1.2	20	9
065	12	11	36	42.1	40.82S	176 84E	12	R	4.0	1.6	22	10
066	14	04	55	17.6	32.40S	179 41E	509		5.3	1.7	19	10
067*	14	21	54	13.4	39.75S	176 81E	33	R	4.0	1.6	13	8
068*	15	15	12	45.6	39.22S	175 88E	12	R	4.4	1.5	15	8
069	16	01	15	42.1	37.85S	179 99W	33	R	4.0	1.5	10	7
070	16	07	07	39.6	33.72S	179 16W	285		4.7	1.5	17	12
071	16	16	08	06.4	38.32S	175 64E	195		4.1	1.1	17	9
072	17	14	00	21.1	40.77S	177 00E	12	R	3.9	1.2	18	9
073	17	17	14	06.0	45.10S	167 63E	100		3.8	1.5	10	6
074	18	09	08	39.0	37.17S	176 64E	293		4.7	1.2	14	9
075	18	18	50	31.7	49.04S	164 63E	33	R	4.3	1.3	7	4
076	18	20	08	33.7	44.86S	167 58E	33	R	4.1	1.3	11	7
077	18	23	32	44.6	38.39S	175 88E	200		4.9	1.8	27	15
078*	21	12	56	49.9	37.72S	176 68E	12	R	4.4	1.5	14	9
079	23	18	41	38.7	38.07S	176 24E	180		4.5	1.2	17	10
080	23	19	16	23.5	38.20S	179 50W	12	R	4.5	2.1	21	12
081	24	17	13	15.0	37.50S	175 72E	12	R	3.2	1.5	11	6
082	25	10	37	44.7	38.85S	178 58E	33	R	3.7	1.4	13	10
083	27	06	24	59.9	41.92S	171 72E	12	R	3.4	1.6	11	7
084	28	02	35	26.3	32.06S	179 40E	553		4.9	1.7	17	11
085	28	06	15	42.8	35.99S	178 42E	253		4.6	1.4	22	14
086	28	09	57	20.9	36.09S	178 35E	266		4.6	1.7	20	13
087	28	12	06	52.5	35.69S	179 98W	176		4.7	1.0	22	14
088	28	17	15	55.1	38.17S	177 68E	33	R	4.0	1.4	19	12
089	29	00	29	51.1	39.82S	174 55E	33	R	4.2	1.2	16	8
090*	29	10	25	31.9	43.45S	172 09E	33	R	4.4	1.5	26	12
091	MAR 01	14	34	49.2	45.28S	167 22E	12	R	3.7	1.9	9	4
092	02	01	56	40.6	40.66S	174 47E	33	R	3.7	1.0	14	8
093	02	12	21	11.7	40.14S	173 87E	173		3.8	1.4	14	9
094*	03	06	38	07.4	39.20S	175 18E	12	R	3.7	1.5	12	6
095	03	07	51	03.5	39.68S	174 33E	203		3.8	1.4	13	8
096	03	08	30	28.5	37.72S	177 13E	135		4.1	1.5	18	12
097	03	12	04	45.0	45.02S	168 30E	33	R	3.9	1.9	9	5
098	03	19	36	04.5	38.18S	176 08E	175		3.6	1.0	12	8
099	04	07	09	24.3	45.02S	167 89E	33	R	4.4	1.1	17	12
100	04	22	19	55.3	33.11S	178 93W	517		4.4	0.8	7	5

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/101	MAR 04	22	58	38.4	40.22S	174 18E	33	R	3.6	1.4	9	5
102*	04	23	45	38.5	39.32S	175 10E	12	R	4.1	1.3	12	7
103	05	03	31	26.6	41.01S	174 17E	12	R	4.1	1.6	17	11
104	05	09	47	20.9	38.69S	175 83E	175		3.8	1.1	13	8
105*	05	23	30	33.2	41.19S	174 40E	33	R	4.6	2.2	25	14
106	06	09	13		SOUTHERN HAWKES BAY				3.0			
107*	06	10	36	37.8	39.25S	175 24E	72		3.7	2.0	10	5
108	06	11	24	44.0	40.44S	176 66E	12	R	3.7	1.3	12	8
109	06	18	55	05.9	37.09S	176 83E	249		3.9	1.6	11	8
110	06	19	24	05.7	41.24S	176 77E	33	R	4.0	1.4	15	9
111	07	09	13	55.5	39.89S	177 00E	12	R	4.1	1.6	22	13
112	08	01	24	36.4	33.03S	178 89W	282		5.0	1.3	21	13
113	10	06	37	50.9	36.41S	179 25W	33	R	4.4	1.9	18	14
114	10	09	09	16.2	32.48S	177 70W	299		5.2	2.8	15	11
115	11	04	38	48.5	34.64S	179 41E	232		4.9	1.5	21	13
116	11	15	41	50.0	39.79S	174 00E	230		4.5	1.9	28	18
117	12	01	17	20.2	38.18S	175 81E	203		5.0	1.6	33	21
118*	12	01	37	22.0	37.85S	176 81E	12	R	3.4	2.3	11	7
119	12	20	39	51.0	35.66S	179 24E	33	R	4.6	3.2	24	12
120	12	21	46	45.8	43.29S	170 76E	12	R	3.8	1.2	27	9
121	13	13	01	17.0	44.95S	166 62E	12	R	3.7	1.9	13	5
122*	14	07	26	02.3	40.68S	173 98E	33	R	5.2	1.8	44	23
123	14	14	42	16.5	44.33S	168 70E	33	R	4.1	1.3	17	10
124*	14	18	49	53.1	39.90S	176 83E	33	R	4.4	1.0	28	17
125*	14	20	07	23.2	37.47S	175 74E	12	R	3.8	2.4	23	10
126	15	14	58	03.4	32.76S	178 50W	33	R	5.4	2.7	32	17
127	16	01	38	51.4	37.59S	176 24E	334		3.9	1.5	13	10
128	16	04	36	52.7	37.91S	176 13E	204		4.1	1.9	16	9
129	16	22	43	16.8	37.65S	176 96E	179		4.6	1.9	26	17
130*	17	10	33	55.7	39.56S	176 71E	12	R	4.4	1.8	3[illegible]	15
131	17	20	12	36.0	35.94S	179 47E	33	R	4.2	2.6	19	11
132	17	23	52	07.9	38.61S	175 30E	232		4.0	1.5	17	11
133*	18	19	38	52.4	43.67S	169 81E	12	R	3.1	1.0	14	7
134*	20	07	52	19.2	40.45S	174 71E	110		4.1	1.3	27	16
135*	20	15	32	36.8	42.99S	171 50E	12	R	3.2	1.6	17	7
136*	20	17	50	18.2	39.42S	175 43E	12	R	3.3	1.5	14	7
137	20	19	39	51.8	35.36S	179 43E	262		4.6	1.2	25	18
138	22	00	08	14.7	38.81S	175 93E	136		4.2	1.4	23	14
139	22	01	35	16.7	37.34S	176 65E	245		4.3	1.4	21	14
140*	22	05	32	58.6	41.72S	175 19E	12	R	3.7	1.1	12	6
141	23	00	01	06.1	38.25S	179 41E	12	R	4.3	1.6	26	12
142	23	00	10	46.8	39.91S	175 21E	12	R	3.9	1.2	14	8
143	23	15	47	45.9	40.74S	173 95E	120		3.9	1.1	13	9
144*	23	23	09	58.7	45.17S	166 41E	33	R	5.8	1.6	31	18
145	24	00	08	41.7	38.93S	175 60E	12	R	3.5	1.4	9	8
146*	24	00	10	49.8	40.20S	175 22E	12	R	4.0	1.1	14	8
147	24	00	30	5[illegible].8	45.18S	166 87E	12	R	3.8	1.8	13	6
148	24	00	09	23.4	38.86S	175 69E	12	R	3.7	2.0	15	10
149*	24	00	56	19.2	45.19S	166 98E	12	R	4.3	0.8	15	8
150	24	00	58	13.6	45.21S	166 91E	12	R	4.2	1.7	11	7

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/151*	MAR 24	11	31	34.2	41.15S	172 60E	12	R	3.8	0.9	1[illegible]	8
152	24	16	43	23.[illegible]	33.46S	179 10W	346		5.2	1.6	18	11
153	24	19	39	07.[illegible]	37.54S	179 14E	33	R	4.2	1.1	11	12
154	25	09	22	01.5	40.28S	173 40E	180		4.2	1.3	15	10
155*	28	13	58	21.9	30.70S	179 80E	337	R		R	0	19
156	29	15	24	04.3	44.94S	167 70E	84		4.1	1.5	13	8
157*	31	01	24	27.4	44.62S	168 54E	12	R	3.6	1.8	10	4
158*	31	08	22	51.4	44.24S	170 46E	12	R	4.3	1.3	14	7
159	31	12	22	42.9	37.54S	175 56E	12	R	3.8	1.9	17	8
160	APR 01	09	10	40.3	39.27S	174 77E	220		4.5	1.6	19	12
161	01	15	57	43.4	37.45S	176 99E	191		4.1	1.1	11	9
162	02	04	00	35.8	36.59S	177 12E	33	R	4.1	1.5	9	5
163*	03	17	15	27.1	41.59S	172 49E	12	R	3.2	1.8	10	5
164*	04	10	41	57.2	38.18S	176 31E	12	R	4.3	1.2	25	14
165*	04	11	07	57.2	38.20S	176 35E	12	R	3.8	1.8	18	10
166	04	11	38	11.8	38.29S	176 36E	12	R	3.6	1.7	14	9
167*	04	12	02	05.6	38.21S	176 40E	12	R	4.4	1.7	21	14
168*	04	12	02	26.5	38.22S	176 28E	12	R	4.6	2.3	12	11
169	04	12	36	08.3	38.22S	176 29E	12	R	4.6	1.9	28	14
170	05	18	29	17.9	39.04S	175 72E	114		4.5	1.2	18	13
171	07	00	53	10.3	40.38S	179 99E	33	R	4.7	1.7	29	11
172	07	02	25	56.3	37.76S	175 57E	33	R	3.8	2.8	4	3
173	07	11	59	01.4	43.95S	168 83E	33	R	3.8	1.6	14	7
174	07	22	31	46.1	41.80S	174 36E	57		3.7	1.2	9	5
175	08	10	19	46.4	38.55S	179 71E	315		4.2	2.4	11	9
176	08	17	33	34.8	38.24S	176 41E	116		3.9	1.1	15	9
177	08	19	51	33.6	37.81S	176 19E	224		3.7	0.6	12	7
178	08	21	44	54.1	40.33S	173 96E	12	R	3.6	2.0	18	8
179	09	01	33	44.7	38.56S	175 87E	194		4.7	1.6	21	11
180	09	12	29	50.4	38.55S	175 88E	166		3.8	1.3	17	10
181	10	10	00	02.6	38.74S	176 16E	122		4.2	1.5	22	11
182	11	09	18	42.7	38.35S	175 86E	194		4.0	1.4	16	10
183	11	11	20	22.5	45.09S	166 29E	12	R	3.5	1.1	10	6
184*	11	14	48	26.6	39.30S	175 26E	157		4.9	2.1	35	20
185	11	16	20	16.2	38.30S	176 24E	153		4.0	1.4	17	9
186	12	05	41	03.7	45.58S	167 29E	109		3.6	1.2	10	6
187*	12	06	47	24.4	38.65S	176 45E	12	R	2.8	1.6	5	4
188	12	08	36	16.4	38.51S	176 [illegible]3E	136		3.6	1.3	11	7
189*	12	14	34	41.6	38.32S	177 55E	33	R	3.8	1.3	15	10
190	12	15	52	00.0	45.04S	167 51E	100		4.0	1.6	13	9
191	13	10	18	34.8	33.41S	179 18W	286		4.9	1.5	17	13
192	13	18	03	37.6	34.67S	179 71W	33	R	4.4	2.7	19	12
193	13	19	11	34.3	37.77S	176 36E	217		3.9	1.2	11	7
194	14	23	12	00.4	40.32S	174 24E	12	R	3.9	1.4	21	12
195	15	08	38	25.3	48.69S	165 72E	12	R	4.1	1.7	12	8
196*	15	09	03	10.8	37.78S	176 83E	12	R	4.0	1.2	22	11
197*	16	02	52	22.3	39.65S	174 03E	187		4.0	1.6	16	10
198*	16	05	10	13.6	40.06S	175 11E	12	R	4.4	1.1	24	12
199	16	05	15	47.1	38.19S	175 91E	190		3.9	1.0	15	9
200	16	15	54	34.8	40.23S	174 70E	12	R	3.8	1.0	15	7

REF NUM		ORIGIN TIME D	H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/201	APR	16	18	05	14.6	49.31S	164 27E	33	R	4.0	2.1	8	5
202*		16	21	57	18.7	42.05S	172 10E	12	R	3.6	1.2	12	8
203*		18	02	03	30.6	37.66S	176 81E	12	R	4.6	0.6	15	9
204		18	03	59	55.0	45.32S	167 38E	75		3.7	2.3	9	5
205		18	06	40	42.1	41.66S	174 39E	12	R	4.1	1.5	18	12
206		20	11	36	26.2	44.98S	167 39E	33	R	4.2	1.1	11	7
207		20	12	51	29.6	38.26S	178 28E	12	R	4.0	1.2	12	7
208		20	18	35	04.0	37.39S	176 14E	274		3.9	1.3	12	7
209*		20	19	07	05.6	41.90S	171 75E	12	R	3.3	0.9	9	4
210		20	23	26	58.4	41.73S	173 70E	12	R	3.9	1.5	17	9
211		21	16	32	25.9	49.78S	163 92E	33	R	4.2	2.3	8	6
212		22	00	47	58.7	38.17S	176 21E	208		4.5	1.3	21	12
213		22	06	50	46.1	35.10S	178 71E	33	R	5.2	1.5	23	16
214*		23	20	10	28.5	43.78S	169 62E	12	R	4.4	1.6	22	10
215		24	02	49	49.9	33.30S	178 13W	33	R	5.8	3.0	24	14
216		24	09	02	19.2	38.48S	176 25E	142		4.4	1.8	24	15
217		24	09	29	22.9	40.51S	179 84W	33	R	4.4	2.0	30	12
218*		24	20	35	28.5	41.35S	174 88E	33	R	4.0	1.4	27	15
219		24	22	35	54.5	50.20S	165 00E	33	R	4.6	1.5	12	7
220*		25	07	12	39.9	40.90S	173 02E	12	R	3.6	1.7	16	10
221		25	11	57	40.3	37.54S	176 62E	235		4.1	1.2	18	11
222		29	03	51	40.9	38.89S	176 55E	12	R	4.1	2.1	24	14
223		29	11	43	33.5	35.98S	179 83W	33	R	4.1	1.8	17	10
224		30	16	08	47.9	37.73S	176 42E	209		4.8	1.4	31	20
225*	MAY	01	00	54	20.4	40.46S	175 50E	100		5.2	1.8	34	24
226		01	10	34	21.1	33.21S	177 66W	12	R	5.4	4.0	22	16
227		01	20	58	34.7	36.60S	177 94E	225		4.4	1.3	21	13
228*		03	08	42	08.3	43.47S	171 53E	12	R	3.4	1.7	21	7
229		05	03	47	07.4	35.28S	178 19E	12	R	4.1	1.9	12	6
230*		05	07	44	53.2	41.31S	174 68E	33	R	4.2	1.2	19	9
231		06	06	44	42.1	41.39S	172 34E	12	R	4.1	1.3	18	8
232		06	09	48	49.9	37.99S	176 06E	219		4.0	0.7	6	4
233		06	22	58	01.3	33.53S	179 82W	429		4.7	1.2	7	6
234		07	07	50	43.7	36.76S	178 15E	157		4.0	0.2	6	3
235		07	10	00	03.3	37.51S	178 29E	118		3.9	0.8	8	5
236		07	15	20	06.6	32.91S	179 53E	434		4.4	0.2	5	3
237		09	01	12	50.8	33.53S	175 82E	180		4.3	1.5	16	11
238		09	13	08	55.5	33.43S	178 24W	33	R	4.1	0.8	8	7
239		09	13	23	59.3	39.19S	174 73E	33	R	3.7	1.4	10	5
240*		09	15	14	52.5	40.78S	175 83E	12	R	3.8	1.6	17	7
241		09	16	15	53.7	39.62S	176 25E	58		3.8	1.2	6	4
242		11	23	43	04.7	37.97S	176 47E	168		4.4	1.7	18	9
243		12	00	49	38.3	35.54S	178 15E	283		4.3	1.2	7	4
244		12	05	43	06.0	37.73S	176 00E	311		4.3	1.5	8	6
245		12	06	52	15.4	37.03S	177 44E	175		3.9	1.5	7	4
246		12	14	21	22.7	34.25S	178 01W	249		5.2	1.2	18	12
247		12	15	49	03.7	33.83S	178 87W	295		4.5	0.7	6	3
248		13	01	09	11.3	38.87S	177 49E	33	R	4.1	1.0	12	8
249*		14	11	01	17.8	41.20S	172 73E	12	R	3.8	2.6	7	5
250		15	07	35	13.8	45.17S	167 11E	33	R	4.0	1.9	10	5

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
72/251	MAY 15	18 44 17.7	38.26S	176 47E	144	4.3	0.9	7	4
252	17	04 00 28.9	38.76S	176 13E	132	4.9	1.8	22	14
253	18	04 38 42.7	38.91S	175 24E	193	4.1	0.9	7	4
254	18	06 57 01.4	38.77S	175 83E	116	3.9	1.8	9	5
255	18	17 59 45.2	36.83S	177 64E	239	3.9	1.2	6	4
256	18	19 37 32.9	38.54S	175 79E	167	4.1	0.8	7	4
257	18	19 40 23.2	37.43S	177 38E	174	4.0	0.8	6	5
258	18	19 52 46.0	38.79S	175 93E	106	4.0	1.2	6	4
259	19	20 03 15.3	45.81S	166 60E	12 R	4.1	1.7	10	6
260	20	01 51 23.5	38.39S	175 72E	191	4.0	1.3	14	9
261*	20	04 59 33.6	39.47S	176 60E	12 R	3.8	1.2	14	8
262	20	05 33 48.0	42.46S	172 75E	12 R	3.7	1.6	14	8
263	20	06 37 55.0	37.22S	177 15E	230	3.7	1.2	6	4
264	20	07 25 04.0	38.58S	175 53E	171	3.9	1.2	14	8
265*	20	19 56 48.3	39.69S	177 31E	12 R	4.0	1.4	24	11
266	20	21 09 29.0	44.99S	167 59E	103	4.0	1.5	10	7
267	21	00 34 18.6	36.38S	177 95E	245	4.7	1.1	19	10
268	21	02 26 04.6	42.47S	172 93E	12 R	3.7	1.4	17	8
269	21	15 04 24.1	37.50S	176 85E	197	4.1	1.0	17	11
270*	21	15 45 41.8	44.37S	168 75E	12 R	4.1	1.6	14	8
271	21	20 53 55.0	42.17S	172 95E	12 R	3.9	1.6	18	8
272	23	11 13 33.2	39.44S	174 55E	252	4.4	1.4	19	11
273	23	20 37 35.4	36.82S	176 77E	267	3.9	1.7	6	4
274	25	16 17 18.6	38.83S	175 89E	123	4.0	1.4	16	9
275	25	17 32 57.3	37.86S	176 70E	187	4.0	1.3	14	8
276	25	20 04 15.5	34.58S	179 42W	12 R	4.8	1.7	19	11
277	26	10 30 39.8	41.29S	172 68E	211	3.9	1.5	15	10
278	26	13 23 52.4	35.00S	178 88W	261	4.3	1.0	8	7
279	27	19 42 05.0	38.83S	175 47E	200	4.4	1.7	19	12
280	28	05 46 03.1	38.65S	175 87E	250	4.1	1.1	13	9
281	29	00 47 00.0	32.96S	179 98E	426	5.2	1.6	20	14
282*	29	02 47 18.3	41.84S	172 39E	12 R	4.3	1.4	27	15
283	30	04 36 04.7	37.78S	176 23E	213	4.2	1.5	14	9
284	31	08 33 38.7	37.46S	176 17E	279	3.9	1.5	13	8
285	JUN 01	12 44 25.0	38.72S	175 23E	285	3.8	1.5	10	8
286	01	15 01 30.0	37.14S	177 55E	187	4.0	1.7	11	8
287	04	12 25 26.8	33.64S	179 16W	242	4.9	1.4	26	18
288	04	21 34 18.2	33.54S	179 31W	260	5.2	2.0	25	17
289	05	00 30 15.4	33.38S	179 20W	320	4.9	2.1	12	8
290	05	07 41 22.2	35.50S	179 19W	222	4.4	1.2	19	14
291	09	23 23 50.3	33.61S	179 58E	247	4.6	2.3	14	10
292	10	14 40 25.6	37.77S	176 12E	221	5.2	1.3	33	20
293	12	09 43 49.4	33.47S	179 34W	260	4.5	1.6	16	12
294	12	10 56 47.0	39.04S	174 99E	248	4.4	1.3	27	17
295	12	13 09 03.0	34.02S	178 29W	33 R	4.3	2.2	14	9
296	12	14 09 07.2	45.05S	167 09E	12 R	3.8	1.6	20	8
297	13	00 56 38.2	47.88S	165 15E	33 R	3.8	1.7	8	5
298	13	02 03 01.3	39.40S	174 55E	198	4.2	1.8	21	12
299	13	09 20 58.4	39.52S	174 34E	226	4.5	2.0	23	13
300	14	01 59 07.9	38.06S	177 09E	98	4.5	2.2	19	14

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/301	JUN 15	03	36	45.3	30.18S	178 04E	33	R	5.2	5.0	13	8
302	15	14	37	36.7	43.30S	164 74E	33	R	4.3	1.2	13	7
303	15	22	03	15.0	43.51S	164 70E	33	R	4.6	2.1	17	8
304	18	21	08	31.6	45.54S	167 78E	33	R	3.8	1.1	11	7
305*	19	01	01	40.2	40.04S	175 24E	33	R	3.8	1.6	14	7
306	19	23	48	39.3	40.82S	172 94E	245		4.2	1.8	13	8
307*	20	10	31	31.4	37.54S	175 68E	12	R	3.7	1.9	17	10
308*	20	11	11	23.2	37.54S	175 65E	12	R	4.0	1.4	19	11
309*	20	16	09	57.2	37.52S	175 70E	12	R	4.5	1.7	28	14
310	20	16	12	47.7	37.56S	175 70E	12	R	3.5	1.4	11	8
311	20	18	58	59.9	37.53S	175 68E	12	R	3.0	1.3	7	4
312*	21	11	05	50.3	41.23S	174 67E	12	R	3.3	0.7	8	4
313	21	18	50	43.0	44.40S	168 25E	12	R	4.0	1.5	13	7
314	22	00	27	56.1	40.57S	173 36E	164		4.0	1.8	13	8
315	22	04	27	13.9	45.00S	167 60E	91		3.9	0.7	11	6
316	22	22	04	44.1	39.51S	175 64E	180		4.2	0.5	8	7
317	23	00	12	49.5	35.23S	179 29E	267		4.6	1.1	10	8
318	23	02	56	40.1	37.52S	175 66E	12	R	3.1	1.1	7	4
319	23	07	29	14.6	37.53S	175 69E	12	R	3.3	1.3	8	5
320*	23	08	40	33.8	37.57S	175 58E	12	R	4.1	1.3	13	11
321	24	11	51	30.0	41.68S	171 96E	12	R	3.7	1.1	15	7
322	25	01	51	47.2	47.17S	166 11E	12	R	3.8	1.4	10	5
323	25	03	52	18.4	44.26S	167 87E	12	R	3.6	1.3	7	5
324*	25	06	28	51.8	33.14S	176 25E	12	R	2.9	R	0	3
325	25	07	41	59.3	45.06S	167 58E	94		4.1	1.0	13	7
326	25	12	02	50.5	45.12S	167 67E	120		3.9	1.4	13	7
327	27	18	10	08.8	37.56S	175 49E	12	R	3.3	1.6	6	4
328*	JUL 01	07	40	16.8	37.50S	175 80E	12	R	4.0	1.4	15	10
329*	01	08	11	53.5	37.49S	175 73E	12	R	4.1	1.4	18	12
330*	01	08	22	00.6	40.05S	176 69E	33	R	3.8	1.1	12	9
331	01	10	22	14.3	33.52S	179 15W	260		5.1	1.9	17	11
332	02	05	37	50.7	45.75S	166 24E	33	R	4.3	2.2	15	8
333	02	17	53	01.4	33.67S	178 74E	12	R	4.2	1.6	13	8
334*	02	20	13	24.8	45.01S	167 55E	33	R	4.9	1.3	15	10
335	03	07	34	15.6	41.98S	174 31E	12	R	4.4	1.7	21	13
336	03	21	39	36.7	40.26S	173 80E	12	R	3.8	1.5	14	9
337*	04	06	02	01.0	41.25S	174 75E	12	R	3.3	R	0	3
338	04	08	32	32.3	40.38S	174 20E	33	R	3.7	1.0	13	8
339	04	11	12	03.2	41.96S	173 84E	12	R	3.6	1.6	11	9
340	04	12	52	16.4	38.40S	176 09E	184		4.7	1.6	22	15
341	04	18	15	31.7	38.33S	175 91E	172		4.2	1.3	13	9
342	06	16	24	52.1	38.22S	175 75E	164		3.7	1.6	10	8
343	06	16	34	07.8	38.28S	175 92E	186		3.9	1.3	11	7
344	07	05	59	46.5	40.15S	174 91E	12	R	3.9	1.2	16	9
345	07	07	15	22.6	32.91S	178 62W	243		4.9	2.0	16	12
346	08	02	52	06.8	33.87S	179 34W	256		4.9	2.4	20	13
347	08	05	41	09.1	38.23S	176 23E	167		4.1	1.2	21	13
348*	10	09	52	57.6	41.45S	172 53E	12	R	4.1	1.8	25	19
349*	10	09	53	50.7	41.38S	172 39E	12	R	4.5	1.7	25	20
350	11	00	46	49.6	37.24S	178 00E	12	R	5.0	1.7	23	14

REF NUM			ORIGIN TIME H	M	S	LAT DEG	LONG DEG		DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/351*	JUL	11	01	39	23.4	41.57S	175 29E		12	R	3.7	0.6	6	3
352		11	08	32	25.5	32.99S	178 94W		238		4.8	2.0	15	12
353		11	08	38	33.8	33.02S	177 25E		64		3.9	1.2	12	7
354		12	13	23	13.7	45.29S	167 10E		12	R	4.3	1.6	20	8
355		13	00	26	54.3	44.93S	167 65E		100		3.7	1.0	11	7
356		13	05	05	31.7	38.95S	175 67E		12	R	3.9	1.0	10	7
357		14	16	20	12.4	43.02S	170 89E		12	R	3.8	1.5	31	11
358		14	20	30	48.5	38.39S	175 81E		171		3.9	2.4	15	12
359		14	23	50	03.5	38.26S	176 03E		211		5.0	1.8	34	20
360		15	09	06	01.1	37.38S	178 07E		33	R	3.7	1.9	18	12
361*		15	15	14	25.1	38.22S	176 74E		12	R	4.0	2.0	19	12
362		16	04	21	40.4	35.19S	179 70W		33	R	6.2	1.8	36	25
363		17	10	40	30.3	35.78S	178 13E		254		4.0	1.2	10	7
364		18	17	16	12.2	37.24S	176 59E		279		4.5	0.8	23	15
365		22	08	18	38.5	40.53S	174 42E		12	R	3.9	1.5	22	12
366		23	05	12	06.9	33.78S	179 75W		265		4.6	1.2	19	13
367		24	21	50	50.6	40.04S	175 59E		102		4.0	1.9	15	9
368*		25	03	26	09.9	38.51S	176 39E		12	R	2.9	3.0	8	6
369		25	19	42	47.2	33.09S	179 02W		33	R	4.6	2.5	18	14
370		26	12	49	52.3	38.75S	175 57E		180		4.2	2.2	22	13
371		27	12	25	48.3	38.39S	178 30E		33	R	4.4	1.7	29	18
372		27	18	28	15.7	38.37S	175 66E		209		4.7	1.6	31	20
373		28	12	39	38.5	37.03S	177 03E		238		4.1	1.1	10	7
374		28	13	14	58.1	37.33S	176 75E		242		4.4	1.3	15	9
375		28	20	45	38.9	45.07S	167 55E		84		4.6	1.9	12	8
376		30	12	55	21.8	37.19S	177 18E		311		4.3	1.6	17	11
377*		30	23	39	08.5	40.86S	175 95E		33	R	5.1	1.6	37	23
378		31	07	11	22.4	31.99S	179 23E		532		5.0	1.4	16	11
379*	AUG	01	13	43	54.9	38.22S	176 47E		12	R	3.3	1.7	8	6
380		03	10	41	40.7	38.34S	175 89E		196		4.1	1.8	18	12
381		04	17	09	42.7	36.29S	177 54E		33	R	4.5	1.6	15	12
382		04	19	29	19.3	36.07S	178 78E		253		4.4	1.0	15	10
383*		06	18	23	38.9	41.83S	171 86E		12	R	4.1	1.6	31	14
384		09	12	34	23.2	34.54S	179 75W		33	R	5.1	2.3	17	13
385		09	20	06	36.1	37.41S	176 99E		183		4.6	1.7	22	14
386		09	22	43	36.6	30.54S	176 87E		33	R		3.7	6	5
387		10	02	05	03.4	40.12S	175 71E		33	R	4.0	1.6	15	7
388*		10	21	15	44.6	39.10S	175 27E		151		4.7	1.2	20	14
389		11	15	15	46.6	38.88S	175 27E		202		5.1	1.5	21	15
390		13	12	43	30.0	42.15S	171 73E		12	R	3.9	1.5	19	10
391		13	17	16	53.0	44.15S	167 77E		12	R	4.1	0.9	11	7
392		14	02	37	15.5	37.84S	175 71E		12	R	3.7	1.1	8	5
393		14	06	16	10.6	44.33S	168 98E		12	R	3.9	0.7	12	7
394		14	10	29	21.1	44.29S	168 95E		12	R	3.9	1.3	12	7
395		15	01	33	22.0	40.98S	173 55E		113		4.2	1.8	15	11
396		15	03	29	56.3	40.98S	175 51E		12	R	4.2	0.8	15	8
397		15	10	34	29.1	37.24S	177 59E		186		3.8	1.4	10	7
398*		15	11	52	52.0	38.89S	177 92E		12	R	4.5	1.3	20	13
399		15	13	14	07.9	38.75S	175 55E		158		4.0	1.0	13	8
400		17	05	30	00.7	38.47S	176 94E		12	R	4.5	1.6	16	12

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/401	AUG 17	11	49	05.4	35.17S	180 00W	33	R	4.3	1.6	17	12
402	18	02	52	34.9	40.08S	175 04E	33	R	3.8	1.4	10	5
403	18	08	37	52.5	32.91S	179 55W	443		4.3	1.4	8	6
404	20	07	32	45.2	33.80S	175 17E	250		4.1	0.9	12	7
405	21	01	08	38.0	38.52S	175 84E	187		4.0	1.4	12	7
406	21	11	22	10.3	40.09S	175 03E	12	R	4.0	1.8	12	7
407	23	02	09	21.8	42.21S	172 92E	33	R	3.9	1.3	19	10
408	24	14	08	13.5	34.22S	179 55W	402		4.7	1.4	15	8
409	25	14	08	05.2	33.58S	179 83W	33	R	5.9	2.2	33	19
410	25	14	09	05.8	39.97S	176 72E	33	R	3.2	4.6	4	4
411*	27	00	50	51.1	41.61S	174 80E	12	R	4.1	1.7	21	11
412	27	10	45	39.4	34.82S	179 25E	288		4.1	1.6	18	11
413	27	16	10	07.1	37.16S	177 25E	184		4.0	1.7	20	12
414	27	21	01	27.1	44.43S	168 07E	12	R	4.2	1.6	15	7
415	28	03	21	43.6	38.51S	178 94E	33	R	4.0	2.3	16	9
416*	28	06	39	26.6	40.16S	176 58E	33	R	4.4	1.2	27	19
417	29	19	38	22.2	37.99S	179 20E	33	R	4.0	1.2	18	13
418	29	22	04	01.9	37.59S	176 44E	246		4.3	1.4	20	12
419*	30	02	07	54.1	41.33S	173 74E	33	R	4.0	1.6	25	15
420*	30	08	06	55.0	41.03S	174 13E	12	R	4.0	1.7	24	12
421	30	22	03	47.7	38.78S	175 43E	187		4.2	1.8	22	11
422	31	08	56	16.1	37.44S	177 34E	166		4.9	1.7	25	16
423*	31	16	48	25.1	41.01S	172 73E	12	R	3.3	1.4	10	4
424	31	23	58	25.3	44.90S	167 78E	150		3.8	0.9	11	6
425*	SEP 01	09	04	15.5	41.71S	172 17E	12	R	3.3	1.7	15	6
426*	03	00	06	10.0	37.61S	175 60E	12	R	3.5	0.5	14	7
427	03	03	12	11.9	38.31S	176 22E	174		4.1	2.1	18	10
428	04	08	32	01.8	37.77S	176 93E	12	R	3.7	1.1	9	6
429	04	17	55	36.8	37.40S	176 74E	277		4.6	1.7	24	15
430	05	02	07	26.4	39.07S	175 42E	163		4.2	2.2	19	12
431*	05	04	46	43.4	39.49S	175 70E	12	R	3.7	1.5	22	10
432	05	14	03	28.3	37.60S	177 69E	154		4.5	2.3	25	16
433	05	19	41	31.1	37.83S	177 16E	149		4.4	2.2	23	15
434	06	17	12	59.2	36.76S	177 53E	240		3.9	1.1	20	11
435	08	09	23	00.4	37.59S	175 63E	12	R	3.2	0.9	5	3
436	08	19	18	19.9	38.36S	178 72E	12	R	3.9	1.9	14	10
437	08	23	32	58.5	38.61S	178 80E	33	R	4.2	1.3	11	9
438*	09	10	37	44.1	40.08S	175 10E	12	R	3.8	1.1	11	7
439	10	12	08	31.4	33.01S	178 90W	662		4.2	1.7	12	8
440	10	22	09	57.0	47.08S	166 13E	33	R	4.9	1.9	13	9
441	12	21	22	03.0	37.63S	175 67E	12	R	3.3	0.6	9	5
442*	13	17	09	55.2	44.56S	168 20E	12	R	4.7	1.4	15	9
443	14	21	23	55.7	38.19S	176 76E	12	R	3.8	1.3	9	7
444	14	21	40	43.4	34.56S	179 25E	310		4.9	1.9	12	8
445*	16	15	10	23.9	40.69S	172 52E	12	R	3.8	0.8	13	9
446	19	14	31	57.5	38.43S	177 38E	70		4.2	1.9	18	14
447	21	09	27	51	NEAR CHATHAM IS STATION				3.8			
448	22	07	22	20.6	38.66S	175 71E	158		3.7	1.5	10	8
449	22	15	31	01.9	35.11S	178 26E	294		4.8	2.1	19	12
450	22	21	05	10.0	38.51S	175 84E	169		4.8	1.4	19	12

REF NUM		ORIGIN H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/451*	SEP 22	23	13	27.9	38.07S	178 34E	68		4.4	1.3	15	12
452	23	00	29	48.8	33.23S	178 82E	590		4.6	1.1	10	7
453	23	03	20	51.9	39.11S	177 48E	83		4.3	1.7	17	11
454	23	07	10	12.1	39.16S	176 01E	12	R	4.0	1.5	20	11
455	23	07	15	54.2	37.20S	176 71E	271		3.8	1.3	10	6
456	23	13	31	44.0	39.22S	174 55E	210		4.7	1.8	24	15
457	24	00	33	53.5	37.78S	178 79E	33	R	3.8	1.4	17	10
458	24	17	23	22.8	38.41S	176 04E	173		3.9	1.1	15	9
459	24	21	27	26.1	39.43S	174 52E	217		4.3	1.3	20	11
460	25	11	13	04.4	40.73S	174 51E	12	R	3.8	1.0	11	8
461	25	23	16	07.7	40.47S	173 58E	154		4.2	1.3	18	12
462	26	14	24	09.6	37.40S	176 87E	257		4.1	1.2	13	8
463	27	13	28	03.2	33.15S	179 55E	393		4.5	2.2	10	6
464	28	03	06	28.8	40.79S	174 60E	12	R	3.8	1.1	14	6
465	28	05	31	25.4	38.26S	175 96E	197		4.5	1.2	17	10
466	28	13	57	24.2	39.49S	174 19E	190		3.9	1.7	12	8
467	29	00	06	03.4	45.70S	165 11E	135		3.8	0.6	8	5
468	29	03	22	02.1	44.92S	167 71E	84		3.7	1.5	8	5
469	29	17	05	29.7	32.86S	178 72W	285		4.8	1.4	11	8
470	29	18	07	10.7	39.78S	174 62E	117		4.0	1.4	11	7
471*	OCT 01	04	45	09.7	41.29S	175 18E	12	R	3.7	1.6	12	5
472	02	11	17	32.6	33.03S	179 83E	267		4.5	1.9	12	9
473	02	22	34	59.5	37.26S	179 62W	156		4.0	1.9	14	9
474	03	06	56	27.5	35.14S	179 86W	33	R	4.1	1.8	13	10
475	03	10	31	50.7	37.19S	177 22E	182		4.0	1.0	12	9
476	03	23	21	16.1	40.92S	175 02E	12	R	3.9	1.4	13	6
477	04	00	07	02.1	45.13S	167 64E	103		3.9	1.4	9	6
478*	04	08	59	03.1	40.01S	176 19E	100		4.4	1.5	20	14
479	04	16	39	48.6	38.10S	176 24E	170		3.8	1.5	8	6
480*	05	12	21	17.9	41.55S	173 99E	12	R	4.0	1.5	17	11
481	08	03	40	29.8	33.16S	179 53W	427		5.0	1.2	15	10
482	09	00	04	42.6	32.53S	179 78E	468		5.7	1.9	30	19
483	09	01	14	59.4	45.44S	167 29E	87		3.9	1.5	13	7
484*	09	02	45	20.2	40.43S	174 55E	33	R	4.7	1.4	42	23
485*	09	21	29	13.0	39.23S	177 22E	12	R	4.3	1.6	30	15
486*	10	12	11	15.2	43.58S	171 72E	12	R	3.8	2.1	26	10
487	10	12	58	32.8	43.60S	171 71E	12	R	3.8	1.9	18	10
488	10	12	58	54.5	43.59S	171 69E	12	R	3.7	2.1	13	10
489	11	00	56	44.0	37.44S	177 57E	33	R	4.6	2.4	31	20
490	12	08	36	15.9	38.55S	175 80E	169		4.3	1.8	19	11
491*	12	11	19	09.1	38.48S	175 21E	274		5.2	1.3	33	20
492	13	01	02	49.4	38.35S	175 86E	171		4.2	1.3	19	11
493	13	09	36	23.2	38.55S	176 59E	12	R	3.8	2.0	21	11
494	14	12	06	33.8	33.20S	178 21W	12	R	5.3	2.3	28	14
495	14	12	12	21.4	33.34S	177 99W	12	R	5.1	2.5	9	7
496	14	12	38	02.8	33.33S	178 04W	12	R	4.7	2.3	16	10
497	14	23	52	01.9	33.18S	177 93W	12	R	5.8	2.1	30	14
498	15	01	00	00.1	33.16S	178 02W	12	R	6.0	2.3	22	13
499	15	03	24	38.5	33.42S	177 88W	12	R	5.4	2.7	20	12
500	15	04	10	24.8	33.05S	178 38W	12	R	4.7	2.1	14	9

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
72/501	OCT 15	04	26	29.7	37.40S	176 59E	252	4.0	1.5	14	9
502	15	05	21	19.5	33.37S	177 74W	12 R	5.5	2.8	18	12
503	15	12	00	06.1	33.01S	177 76W	12 R	5.2	2.3	20	13
504	15	16	28	32.8	33.16S	178 25W	12 R	4.9	2.4	20	14
505	15	16	50	48.3	33.16S	177 81W	12 R	5.1	2.0	17	11
506	16	02	32	17.4	39.25S	174 64E	33 R	4.0	1.8	11	6
507	16	14	10	59.5	33.05S	178 02W	12 R	5.4	3.1	24	14
508	16	16	10	53.6	33.40S	178 31W	12 R	4.8	2.4	19	14
509	17	05	59	56.6	40.16S	173 52E	235	4.1	1.0	13	9
510	17	06	14	41.2	33.35S	177 86W	12 R	5.3	1.9	21	12
511	17	07	34	22.2	33.19S	178 01W	12 R	4.9	3.1	19	11
512	17	18	21	46.4	33.52S	178 25W	12 R	4.7	2.1	14	11
513	18	00	58	22.1	33.25S	178 09W	12 R	5.2	2.9	18	11
514	18	02	29	51.3	33.41S	178 11W	12 R	5.3	2.4	19	11
515	18	06	14	43.6	38.68S	175 67E	176	4.3	1.3	19	12
516	18	23	06	32.0	33.76S	178 28W	12 R	5.0	2.3	19	12
517	19	14	58	40.5	37.32S	177 18E	202	4.1	1.8	17	11
518	20	02	13	18.3	32.85S	179 31W	33 R	4.9	2.1	10	7
519*	20	03	33	03.8	41.23S	174 73E	67	3.9	1.1	9	6
520	22	12	03	49.5	35.84S	177 06E	293	4.2	1.4	17	10
521	23	03	31	11.5	37.72S	177 52E	130	4.5	1.5	18	13
522	24	04	29	59.4	33.35S	178 23W	33 R	4.9	1.9	13	9
523	25	09	10	27.0	37.94S	176 43E	12 R	3.3	0.4	7	5
524	25	11	13		37.8S	176 8E		3.5			
525	25	11	28	11.1	37.82S	176 81E	12 R	4.2	1.2	16	10
526*	26	18	22	28.5	37.90S	176 78E	12 R	3.7	0.3	9	7
527	27	05	00	16.3	45.34S	167 81E	12 R	3.9	1.2	12	7
528	28	22	55	53.9	43.35S	171 11E	12 R	4.0	1.7	17	11
529*	29	08	19	04.9	41.47S	174 63E	12 R	3.6	1.2	10	6
530*	29	18	11	12.2	41.43S	174 51E	68	3.7	1.8	13	9
531	30	02	41	16.2	38.13S	176 02E	219	4.4	1.6	16	11
532	30	06	27	11.8	45.26S	167 29E	12 R	4.0	1.1	14	8
533	31	01	12	58.2	39.73S	175 06E	12 R	3.9	1.2	11	7
534	31	12	00	07.5	37.40S	176 70E	236	4.1	1.0	12	7
535	31	22	54	37.2	49.49S	165 13E	33 R	4.4	2.0	8	6
536	NOV 02	12	03	22.0	45.27S	167 54E	105	3.9	0.7	8	5
537	04	05	44	05.3	49.90S	164 90E	33 R	4.3	2.2	8	6
538	04	14	26	15.3	38.64S	176 15E	120	3.8	1.4	8	7
539	05	01	01	55.3	38.77S	176 77E	33 R	4.0	1.4	20	12
540	05	01	48	14.3	32.09S	179 81E	551	4.5	1.6	12	10
541	05	08	42	27.6	37.48S	177 49E	128	4.0	1.6	17	11
542	05	08	56	01.9	39.82S	174 71E	53	3.5	1.1	12	6
543	05	08	56	13.1	34.57S	178 27E	214	4.1	0.9	11	7
544	05	17	21	39.2	37.85S	176 23E	240	4.2	1.2	17	11
545	05	17	31	23.7	38.00S	178 95E	12 R	3.9	1.8	17	11
546	06	09	25	19.6	35.17S	177 58E	242	3.9	1.4	10	6
547	06	10	18	24.2	37.62S	177 15E	134	4.2	1.9	16	11
548*	07	00	47	21.0	42.65S	171 44E	12 R	4.1	1.4	19	10
549	08	09	49	19.8	37.11S	176 78E	266	3.7	1.6	9	6
550	08	09	59	14.4	37.00S	176 97E	277	3.7	0.8	9	6

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NJM OBS	NUM STN
72/551	NOV 08	14	57	18.6	35.38S	178 19E	235		4.4	2.0	17	10
552*	08	16	26	05.0	39.71S	176 40E	33	R	4.4	1.3	19	12
553	09	05	46	21.1	37.08S	176 27E	322		4.1	1.4	8	6
554	09	19	33	39.8	36.30S	178 94E	12	R	4.3	1.5	17	11
555	10	12	48	54.2	38.26S	176 39E	186		3.6	1.0	9	6
556	11	04	51	59.1	36.47S	177 64E	270		4.1	1.7	14	10
557	11	13	00	53.5	37.15S	176 82E	220		4.8	1.5	23	15
558*	11	21	49	32.5	40.14S	176 77E	12	R	4.1	1.4	19	11
559	12	01	27	36.7	37.99S	176 60E	172		4.1	1.4	14	9
560	12	03	57	32.4	40.28S	173 53E	194		4.2	1.8	14	10
561	12	13	09	49.2	37.49S	177 39E	147		4.2	1.3	14	10
562*	13	14	15	37.5	40.44S	173 34E	181		4.5	2.0	23	12
563*	13	15	11	28.0	41.35S	176 00E	12	R	4.3	1.5	16	11
564*	14	08	26	27.8	40.35S	174 23E	119		4.5	1.0	18	10
565*	14	17	14	28.0	38.00S	177 00E	12	R	3.4	R	0	2
566*	14	17	26	42.5	38.00S	177 00E	12	R	3.5	R	0	2
567	14	17	32	46.5	38.00S	177 00E	12	R	3.2	R	0	2
568*	14	17	51	26.5	38.00S	177 00E	12	R	3.4	R	0	1
569	15	00	41	42.2	38.57S	177 51E	12	R	4.1	1.5	16	11
570	15	01	13	48.4	37.99S	175 81E	279		4.4	1.4	19	12
571	15	17	38	48.1	38.70S	175 45E	176		3.9	1.6	16	9
572	15	21	04	07.4	37.18S	177 18E	169		4.0	2.0	10	8
573	19	04	10	19.3	39.04S	175 50E	137		4.3	1.6	17	11
574	23	01	51	56.5	45.03S	167 73E	125		4.1	0.8	14	9
575*	24	06	17	16.7	39.75S	174 98E	12	R	4.1	1.4	27	12
576	24	12	13	26.5	37.38S	176 70E	189		3.8	1.5	14	10
577	25	01	31	12.8	32.81S	177 82W	12	R	5.4	2.8	25	14
578	25	02	54	40.3	38.17S	174 43E	12	R	4.0	1.5	21	11
579	25	08	35	09.5	36.10S	179 52E	209		4.3	1.4	18	12
580	25	15	53	56.1	32.72S	177 59W	12	R	5.1	2.2	24	14
581	25	19	40	55.5	32.81S	177 93W	12	R	5.2	2.3	22	13
582	25	22	19	21.1	37.99S	176 79E	151		4.1	1.5	17	11
583	26	01	52	57.5	39.08S	174 93E	238		4.0	1.7	19	12
584	26	06	51	58.9	38.39S	176 20E	152		4.0	1.7	20	12
585	26	09	35	43.5	40.07S	174 92E	12	R	3.6	1.2	16	9
586	26	12	41	56.1	32.80S	177 72W	12	R	5.7	2.8	29	15
587	26	20	11	12.8	40.49S	175 98E	12	R	3.8	1.4	24	12
588	27	02	23	50.2	32.81S	177 90W	12	R	5.1	2.6	17	11
589	27	04	27	18.2	32.74S	177 69W	12	R	5.3	2.4	25	13
590	27	07	30	30.5	44.61S	168 00E	12	R	4.1	1.0	17	8
591	27	13	45	53.1	38.05S	177 83E	12	R	3.9	2.4	22	10
592	27	17	52	50.8	35.09S	178 58E	296		4.8	1.6	25	16
593	28	06	58	29.2	35.28S	178 48E	305		4.1	1.2	15	12
594	28	09	54	19.6	32.44S	179 36W	378		5.3	2.3	28	18
595	28	23	28	43.0	38.60S	176 09E	161		4.6	2.3	27	17
596	29	06	33	01.0	41.28S	173 63E	33	R	4.1	1.8	30	16
597	29	21	34	52.2	39.03S	174 95E	238		4.6	1.5	31	17
598	30	12	22	06.9	35.29S	178 73E	33	R	3.7	3.0	15	8
599	DEC 01	07	36	12.8	38.36S	175 77E	205		4.8	1.2	26	16
600	02	07	40	45.3	44.79S	169 60E	12	R	4.3	0.8	11	9

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
72/601	DEC 02	15 43 05.9	38.97S	175 68E	12 R	3.8	1.5	18	11
602	02	02 39 57.2	38.92S	175 67E	12 R	4.6	1.4	17	12
603	05	14 57 20.6	34.69S	179 64E	248	5.2	1.5	20	15
604	05	23 52 51.8	38.96S	175 70E	12 R	4.2	1.3	19	11
605	06	06 01 12.4	45.02S	167 41E	33 R	4.1	1.0	12	8
606	07	05 58 04.5	31.39S	178 65W	33 R	6.6	3.2	21	14
607*	07	16 12 11.7	39.53S	175 77E	12 R	4.1	1.4	23	10
608	07	20 37 43.5	38.93S	175 74E	12 R	3.5	1.5	11	8
609	07	22 52 55.4	38.95S	175 73E	12 R	3.1	1.5	8	4
610	09	08 35 23.6	39.69S	177 01E	33 R	3.6	1.0	6	7
611	09	12 34 37.5	38.70S	175 71E	171	3.9	1.6	17	10
612	09	12 56 26.3	38.97S	175 66E	12 R	2.9	1.6	10	6
613*	10	00 37 44.3	39.00S	174 90E	218	5.2	1.3	28	20
614	11	11 28 49.4	38.33S	176 05E	173	4.7	1.5	20	13
615	12	09 53 19.2	38.24S	176 17E	166	4.1	0.9	17	13
616*	12	19 33 17.4	43.15S	170 98E	12 R	3.8	1.6	19	9
617	12	19 34 36.1	38.25S	176 11E	168	4.3	1.2	17	11
618	12	23 34 02.1	33.00S	179 55W	479	4.7	0.8	7	5
619	13	09 46 04.2	45.11S	167 65E	84	3.8	0.7	10	6
620	13	11 47 18.3	38.77S	179 72E	114	4.1	1.5	15	9
621*	13	14 40 58.4	41.82S	174 38E	68	4.1	2.0	17	11
622	14	12 35 21.7	33.83S	179 99W	33 R	4.7	1.9	10	10
623	14	13 22 46.1	33.90S	179 72W	221	5.2	1.6	18	12
624	14	13 31 13.6	33.57S	179 98E	33 R	5.0	2.6	14	12
625	15	13 01 33.8	44.36S	170 19E	12 R	3.8	1.4	16	7
626	15	16 17 13.4	37.07S	179 98W	33 R	4.3	1.2	16	13
627	16	04 55 33.8	35.90S	179 80E	12 R	4.3	1.4	17	10
628	17	01 51 04.2	39.05S	174 71E	206	3.9	1.0	13	8
629	17	08 00 57.1	33.35S	179 58W	204	4.4	2.3	13	11
630	17	08 32 40.1	33.67S	179 85W	179	4.5	2.3	19	13
631	17	08 37 26.0	33.75S	179 75W	200 R	4.5	R	8	11
632	17	08 38 21.6	33.43S	179 00W	33	5.1	2.3	16	13
633	17	09 20 07.5	34.33S	179 08E	394	4.1	2.0	9	8
634	17	09 52 44.6	33.70S	179 74W	202	5.2	1.8	19	13
635	17	21 23 47.4	33.75S	179 64W	156	4.5	1.2	10	10
636	18	04 24 26.1	33.17S	178 72W	33 R	4.0	2.2	9	6
637	18	05 04 09.0	33.88S	179 35E	218	4.2	1.0	10	7
638	18	07 43 44.1	34.15S	179 58W	215	4.4	1.4	14	12
639	18	11 53 22.5	33.24S	179 49W	33 R	4.2	1.7	8	6
640	19	02 11 22.6	45.30S	166 57E	12 R	4.1	1.3	16	7
641	19	10 59 46.7	38.16S	175 97E	183	3.8	1.3	10	7
642	19	14 38 51.6	34.52S	179 24E	349	4.8	1.7	19	13
643	20	09 31 16.5	33.58S	179 73W	261	5.1	1.7	20	14
644	20	09 47 32.9	33.34S	179 79E	33 R	4.1	1.9	7	5
645*	20	09 55 35.1	39.18S	177 38E	12 R	4.7	1.2	21	13
646	20	10 15 50.1	33.51S	179 39E	193	4.7	1.8	13	9
647	20	10 36 09.	45.24S	167 60E	115	4.3	1.5	13	8
648	20	14 40 39.1	34.52S	178 63E	241	3.9	2.3	12	9
649	20	17 55 10.2	33.75S	179 72E	473	4.7	2.8	12	13
650	21	00 55 47.8	38.31S	176 09E	176	3.7	1.3	9	7

REF NUM		ORIGIN TIME H	M	S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
72/651*	DEC 21	03	41	39.5	40.38S	176 54E	12	R	5.2	1.4	36	20
652	21	04	00	15.3	40.52S	176 93E	12	R	3.9	1.6	14	9
653*	21	04	23	14.8	40.21S	176 58E	12	R	4.3	1.4	21	11
654	21	07	36	46.4	40.39S	176 69E	12	R	4.0	1.5	16	10
655*	21	13	55	20.8	40.31S	176 66E	12	R	4.4	1.1	23	12
656*	21	17	32	32.1	40.54S	176 87E	12	R	4.0	1.4	21	11
657*	21	18	47	50.4	40.33S	176 62E	12	R	4.4	1.1	26	13
658	22	10	24	56.0	37.05S	176 94E	238		4.0	1.8	10	6
659	22	11	36	30.9	34.00S	178 66W	291		4.5	2.0	13	8
660	23	05	30	45.8	44.76S	166 66E	12	R	5.8	1.3	19	12
661*	23	08	09	37.6	38.01S	176 67E	12	R	4.0	1.4	16	10
662	23	19	41	47.2	40.71S	173 55E	156		3.9	1.8	14	11
663	24	12	21	03.6	38.44S	175 74E	191		4.0	0.8	14	9
664	25	16	02	00.3	38.70S	175 15E	229		3.9	1.0	12	8
665*	26	09	26	57.0	37.93S	176 71E	12	R	3.4	2.2	9	4
666*	26	22	45	20.6	41.56S	172 09E	12	R	4.0	1.5	18	9
667	27	04	40	43.0	33.43S	168 14E	33	R	4.8	1.3	20	16
668	27	17	19	16.5	38.14S	176 78E	12	R	4.0	1.3	12	9
669	28	12	36	50.5	37.52S	176 61E	223		4.2	0.7	19	13
670	28	13	38	12.7	49.64S	164 34E	33	R	4.3	1.1	14	8
671	28	14	38	20.4	34.38S	179 66W	234		4.6	1.1	19	14
672*	29	08	45	30.5	41.22S	174 86E	33	R	3.9	1.5	26	13
673	29	12	01	27.0	44.40S	167 28E	12	R	5.1	1.5	41	20
674	31	20	56	05.0	38.11S	176 38E	167		4.3	1.8	22	14

STATION READINGS OF NEW ZEALAND EARTHQUAKES

This section contains origin times, epicentres, focal depths, magnitudes, and station readings of those earthquakes in the New Zealand region that could be located from instrumental data. In general, origins are calculated for all sufficiently well-recorded earthquakes within 10° of Wellington. The calculations are carried out by an Elliott 503 digital computer using a programme developed by R.M. Hamilton, similar to that described by B.A. Bolt (Geophysical Journal: Vol. 3, pp. 433-40, 1960). A provisional origin is repeatedly adjusted to obtain the best agreement between observed arrival-times for the various phases, and times computed from tables. More precisely, the origin is adjusted to minimise the sum of the squares of the residuals (observed minus computed arrival-times).

The earthquake origins are determined using the phases Pn, P* and Pg, and the corresponding S phases. In computing travel times, it is assumed that the New Zealand crust is 33 km thick, and is divided into two uniform layers by a discontinuity at a depth of 12 km. Above the discontinuity the velocities of P and S are 5.5 and 3.3 km/sec respectively (Pg and Sg) and below it they are 6.5 and 3.7 km/sec (P* and S*). Travel times for Pn and Sn waves, which travel in the mantle, are derived from the Jeffreys-Bullen "Seismological Tables" (British Assn. for the Advancement of Science, 1958), but modified by multiplying the times by 0.96. Several studies have shown that times in the table are too great to fit the New Zealand observations. The result of applying this correction is to raise the adopted Pn velocity from about 7.8 to 8.1 km/sec, and the Sn velocity from about 4.4 to 4.6 km/sec. These values are close to those reported.

In general, all four parameters of the earthquake origin are calculated (origin time, latitude, longitude, and focal depth). In some cases however, the focal depth is not allowed to vary, but is restricted to a certain depth. This is most commonly done for crustal earthquakes, which are assigned nominal depths of either 12 or 33 km, according to the crustal phases present, and to the goodness of fit of the resultant solutions. Parameters that have been restricted are identified by the letter R appearing in the place where the standard error is usually printed.

Solutions are attempted whenever sufficient readings are available. The minimum requirement to determine an epicentre is a total of three readings at two stations, plus a felt report to resolve the ambiguity.

In using the results in this section, it is essential to keep in mind that the position of earthquakes whose epicentres lie outside the network of seismograph stations can be very uncertain, even though the readings may be consistent with the computed origin (i.e., the residuals are small). Because of the presence of systematic errors, the true origin could be very different from the one calculated. Great care should therefore be taken not to attach significance to an epicentre in an unusual place or a focus at an unusual depth if the recording stations used are not well distributed about the epicentre.

* *

EXPLANATION OF DATA

The first line printed for each earthquake gives the reference number, used throughout the Report. The second line gives the parameters of its origin, the standard error of the residuals, and the average of the magnitude determinations.

The standard error is derived from the equation

$$SE = \sqrt{\frac{\sum_{i=1}^{n} r_i^2}{n - m}}$$

where r_i is the i^{th} residual, n the number of readings, and m the number of parameters determined. Below each parameter of the origin, its standard error is printed, or if the parameter was restricted to a particular value, the letter R. When the number of readings and the number of parameters to be determined is the same, the standard error is not defined. This is indicated by printing ND.

The information listed for each station includes the arrival times of the various phases, the directions of ground motion, the residuals, the epicentral distance in degrees ($1^{\circ} = 111$ km), the azimuth of the station from the epicentre, in degrees east of north, and magnitudes computed as described below. The directions of ground motion are indicated by the following letters: U - up, D - down, N - north, S - south, E - east, W - west. When the instruments are not oriented towards cardinal points, the letters are X for a movement in the northeast and F in the southwest quadrant (as at BUN and KAI), Y for one in the northwest and J in the southwest quadrant (as at BUN and TON).

Magnitudes are M_L as defined by C.F. Richter (Bull. Seismol. Soc. America: Vol. 25, pp.1-32, 1935) obtained either from the maximum amplitude of the S-group as recorded on a Wood-Anderson seismograph adjusted to standard constants (W - A), or by using equivalent relationships for the maximum P and S amplitudes recorded on a vertical Willmore seismograph (WP or WS). These relationships were empirically derived by A.A. Thomson from a comparison between records of the same earthquakes on the two types of seismograph.

Residuals are listed for all readings used in calculating the origin. An asterisk following the residual indicates that the corresponding reading was not used in the final determination. A reading is omitted from the determination if the absolute value of its residual exceeds twice the standard error, and the residual is not used when the final standard error is calculated. This provision for discarding readings is made to guard against the inclusion of spurious or wrongly identified ones.

Although the main readings from Raoul Island are contained in a later section, readings from this station have been used in the determination of the origins of some earthquakes. In these cases the Raoul Island readings will be found also in the following section. In a small number of cases readings from the station at Macquarie Island (MCQ), operated by the Australian Commonwealth Bureau of Mineral Resources, have also been used and are listed with the New Zealand readings.

	H	M	S									72/ 001
JAN 01	00	46	45.8	38.41S	175.94E	12 KM	SE	1.4	AVG MAG	3.6		
		+-	0.5	0.03	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	00	46	51.0		-0.3	0.25	150			
	I			52.4							
	SG			55.3		0.8					
KRP	IPG	00	46	58.1	D	0.3	0.58	327		3.5	3.5
	I			59.3							
	SG		47	06.0		0.2					
CNZ	PG	00	47	03.0		-0.0	0.84	201		3.5	
TRZ	PG	00	47	12.8		0.1	1.33	149		4.1	
	E			38							
TNZ	EPG	00	47	13.8		-1.3	1.45	237		3.7	3.4
	ESG			35		0.3					
	E			37.5							
GNZ	EPG	00	47	18		-1.1	1.65	99		3.7	
MNG	PN	00	47	23.7		1.9	2.23	189		3.4	
	IP*			26.9		1.8					
WEL	EPG	00	47	44		-2.7	3.01	197		3.6	

	H	M	S									72/ 002
JAN 03	11	18	49.1	41.09S	175.82E	81 KM	SE	0.9	AVG MAG	4.0		
		+-	0.5	0.03	0.03	7						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP	11	19	02.8		-0.8	0.53	331		4.3	
	S			09.0		-5.5*					
WEL	P	11	19	07.9	D	1.4	0.82	256	4.0	4.8	4.4
	S			19.2		-0.4					
TRZ	EP	11	19	18		0.2	1.71	27		3.8	4.0
	S			38.8		-0.2					
CNZ	P	11	19	20.3		0.1	1.90	354		4.4	
TNZ	EP	11	19	25.0		0.7	2.20	329		4.2	3.8
	S			50		-0.4					
COB	EP	11	19	27.8		1.6	2.33	269		4.2	4.1
	E			37							
	S			54		0.1					
KRP	EP	11	19	37		-0.9	3.17	356		3.4	
GPZ	ES	11	20	23		-0.2	3.51	221	4.2		
KAI	ES	11	20	25		-0.4	3.60	245	3.8		
MJZ	S	11	20	57		-0.9	4.90	232		3.6	

FELT RAUMATI SOUTH (63) 1M IV

	H	M	S									72/ 003
JAN 06	06	43	55.5	31.13S	178.04W	33 KM	SE	5.2	AVG MAG	5.9		
		+-	6.9	0.29	0.42	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	E	06	46	01			7.13	202			
	ES		47	01		7.6					
GNZ	EP	06	45	57		7.3	8.16	202			
	S		47	18		-0.1					
CRZ	EP	06	45	52		-1.9	8.48	245			
TUA	ES	06	47	32		3.1	8.61	206			
TRZ	ES	06	47	47		-0.4	9.39	205			
MNG	EP	06	46	22		-3.0	10.82	207			
	S		48	17		-4.1					
WEL	S	06	48	36		-5.0	11.67	208	5.9		
CIZ	ES	06	49	05		-3.4	12.86	175			

	H	M	S									72/ 004
JAN 06	10	28	57.1	39.06S	176.19E	121 KM	SE	1.8	AVG MAG	4.4		
		+-	0.8	0.04	0.04	8						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EP	10	29	13		-2.0	0.44	352			
CNZ	P	10	29	15.3		-0.1	0.51	254			
TRZ	P	10	29	18.8		2.0	0.70	135		4.6	5.1
	S			32.2		0.3					

	TUA	P	10	29	17.4	D	-0.2	0.80	72		4.9	4.8
		S			31.5		-1.7					
	TNZ	EP	10	29	25.3		1.3	1.40	264		4.?	3.5
		ES			45		0.6					
	GNZ	IP	10	29	26.5	D	1.4	1.50	74		5.4	5.2
		S			47.0		0.7					
	MNG	EP	10	29	27.3		1.1	1.64	199		3.7	4.0
		S			48		-1.1					
	ECZ	EP	10	29	35.9	D	0.8	2.31	54		5.2	
		ES		30	05		1.2					
	WEL	ES	10	30	07		-0.5	2.47	206	3.8	4.3	
	GBZ	EP	10	29	40		-3.0	2.89	349			
	COB	EP	10	29	49		0.3	3.33	231		3.8	
	GPZ	ES	10	31	11		-3.5*	5.34	209	4.5		
	CIZ	EP	10	30	45		2.4	7.31	134			
		S		32	01		-3.5					

	H	M	S									72/ 005
JAN 07	03	03	21.8	39.84S	176.93E		33 KM	SE	0.4	AVG	MAG	4.2
	+-		0.2	0.02	0.03		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		IP	03	03	29.4	D	-0.3	0.30	345			
	TUA		P	03	03	39.2	U	-0.3	1.05	10		4.6	4.8
			S			52.5		-0.1					
	CNZ		IP	03	03	43		0.8	1.25	301			
	MNG		P	03	03	43.9		0.2	1.35	235		4.3	
			I			52.3							
	WNZ		E	03	03	47			1.37	332			
	GNZ		EP	03	03	46		0.7	1.47	36		4.?	4.4
			E			56							
	TNZ		E	03	03	59.0			2.08	288		3.9	
	WEL		EP	03	03	55		-0.1	2.18	228	3.9	3.9	4.3
			S		04	20		-0.2					
	KRP		P	03	03	55.0		-0.3	2.20	330		3.9	
			I		04	01.8							
	ECZ		P	03	03	59.0		-0.3	2.49	31		4.4	
			E		04	22							
	COB		EP	03	04	12		-0.2	3.43	247		3.6	
			E			23							
	GBZ		P	03	04	17.2		0.1	3.80	342			
	GPZ		ES	03	05	25		-3.8*	5.01	218	4.5		

	H	M	S									72/ 006
JAN 08	11	39	14.2	38.06S	176.27E		227 KM	SE	1.6	AVG	MAG	5.4
	+-		0.9	0.05	0.05		7					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ		P	11	39	46.3		1.4	0.59	193		5.2	
	KRP		IP	11	39	45.1	D	0.2	0.59	283		4.9	
			S		40	09.5		0.8					
	TUA		IP	11	39	48.6	U	1.5	1.02	138		5.9	5.6
			S		40	10		-2.6					
	GNZ		P	11	39	51.3		0.7	1.50	114		5.7	
			S		40	18.5		-0.2					
	TRZ		IP	11	39	53.2	U	2.1	1.56	164		5.8	5.7
			ES		40	19		-0.6					
			E			23							
	ECZ		P	11	39	52.9		-0.7	1.84	79		5.7	5.7
			E		40	14							
			S			23		-1.0					
	GBZ		IP	11	39	51.9	U	-2.6	1.94	341		4.6	
			I		40	01.5							
	MNG		IP	11	40	03.1		1.5	2.63	193		5.3	5.1
			S			34.3		-4.1*					
	WEL		P	11	40	11.9		1.2	3.43	199	5.6	5.2	5.6
			S			56.0		1.5					
	COB		EP	11	40	18.4		-0.1	4.08	221		4.7	5.5
			S		41	10		1.6					
	KAI		EP	11	40	41.5		1.4	5.81	218	5.4		

		E			47					
		S		41	45	-2.1				
	GPZ	P	11	40	45.7	-0.3	6.27	205	6.0	
		S		41	56	-1.6				
	MJZ	EP	11	41	00.0	-0.1	7.37	215		
		S		42	20	-2.9				
	OMZ	EP	11	41	10	0.8	8.07	208		

FELT PATOKA (52) WELLINGTON (68) MM IV

H M S 72/ 007

JAN 08 21 33 00.1 37.58S 175.69E 12 KM SE 2.6 AVG MAG 5.1

+- 0.5 0.03 0.05 R

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IPG	21	33	07.7	U	-0.1	0.37	199			
AUC	P*	21	33	20.1	U	1.5	1.02	314			
WNZ	P*	21	33	20.2		0.2	1.10	163		5.5	
	IPG			24.5		2.0					
GBZ	P*	21	33	24.0	D	-0.5	1.37	353			
	I			26.2							
	IPG			27.2		-0.6					
CNZ	P*	21	33	28.1	D	-0.6	1.62	184			
	IPG			31.0		-2.0					
TUA	EP*	21	33	29.8	D	-0.2	1.68	137		5.3	
	EPG			33.8		-0.4					
TNZ							1.91	212		5.2	
ONE	EP*	21	33	35.5		-1.4	2.09	329	5.1		
	EPG			40		-2.4					
	I			45							
	SG		34	06.5		-4.1					
GNZ	P*	21	33	37.5	D	-0.1	2.13	121		5.6	
	IPG			47		3.9					
TRZ	EP*	21	33	38.8		0.6	2.16	156		5.3	
	IPG			43.8		-0.1					
	I			48.5							
ECZ	P*	21	33	41.0		1.0	2.27	94			
	EPG			43.7		-2.4					
	E		34	24							
MNG	P*	21	33	50.8	D	-2.4	3.04	183		5.3	5.0
	IPG			57.5		-4.1					
	E		34	02.5							
	ES*			29		-4.1					
WEL	E	21	34	00.8			3.77	191	5.0	5.4	5.2
	IP*			08.0		2.3					
	ES*			59		3.9					
CRZ	EPN	21	34	02.0		2.2	3.97	321		4.8	4.7
	EP*			13.5		4.3					
	EPG			24.3		3.8					
	ES*		35	01		-0.2					
COB	PN	21	34	04.0		1.3	4.19	212		5.2	5.0
	IPG			20.3		-4.5					
	ES*		35	11		3.4					

FELT WIDELY IN WAIKATO, CORDMANDEL AND BAY OF PLENTY
MAXIMUM INTENSITY MM VII AT TE AROHA, WHERE A SUBSTANTIAL AMOUNT OF MINOR DAMAGE OCCURRED

H M S 72/ 008

JAN 08 21 36 20.6 37.52S 175.70E 12 KM SE 1.3 AVG MAG 4.6

+- 0.4 0.02 0.04 R

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	PG	21	36	28		-1.5	0.43	198			
WNZ	IPG	21	36	45.8		1.7	1.15	164		4.9	5.0
	E		37	07							
GBZ	P*	21	36	44.0		-0.2	1.31	352		4.6	4.7
	IPG			46.3		-0.9					
	S*		37	03		1.3					
CNZ	P*	21	36	51.0		0.5	1.68	184			
TUA	EP*	21	36	52		0.9	1.72	139		4.3	
	EPG			56		0.5					

GNZ	EP*	21 36 59	0.5	2.15	122		4.7		
	E	38 07.3							
TRZ	PG	21 37 05.8	0.4	2.21	157		4.2		
ECZ	EPG	21 37 04	-2.5	2.27	95		4.4		
MNG	P*	21 37 14.0	-0.8	3.10	183		4.9		
	I	17.8							
	E	38 05							
COB	PN	21 37 24.8	0.8	4.24	212		4.6	4.4	
	E	40							
	ES*	38 29	-0.8						

72/ 009

	H M S								
JAN 08	21 58 03.1	37.58S	175.99E	12 KM	SE	1.0	AVG MAG		3.4
	+- 0.7	0.02	0.05	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	PG	21 58 14.5		1.2	0.49	227			
	SG	19.5		-0.6					
GBZ	EPG	21 58 32		0.0	1.42	343		3.3	3.4
	ESG	51		-0.2					
CNZ	EPG	21 58 37		0.5	1.65	192		3.5	
MNG	E	21 59 03			3.06	187		3.4	
	EPG	04		-0.9					

FELT SCOTSMAN VALLEY (25) MM IV

72/ 010

	H M S								
JAN 08	22 37 50.2	37.58S	175.87E	12 KM	SE	1.7	AVG MAG		3.9
	+- 1.0	0.03	0.11	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IPG	22 38 00.2		0.9	0.43	217			
	SG	05.0		-0.3					
GBZ	PG	22 38 18.6		0.1	1.39	347		3.9	3.9
	E	19.8							
	SG	37.0		-0.3					
CNZ	PG	22 38 22.8		-0.6	1.64	189		3.9	
MNG	EP*	22 38 46		2.5	3.05	186		3.9	
	IPG	49.8		-2.2					

72/ 011

	H M S								
JAN 09	14 25 48.9	39.94S	176.27E	12 KM	SE	1.5	AVG MAG		3.0
	+- 0.7	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ	EPG	14 25 59.5		-1.2	0.57	48			3.1
	ESG	26 09.3		0.8					
MNG	EPG	14 26 09		1.5	0.91	222		2.3	2.7
	SG	19		-0.8					
CNZ	PG	14 26 06.8		-1.0	0.93	322		3.6	3.0
	SG	21		0.6					

72/ 012

	H M S								
JAN 10	04 24 37.6	44.45S	169.63E	12 KM	SE	1.5	AVG MAG		3.9
	+- 0.4	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MJZ	P*	04 24 51.2		-0.5	0.76	52			
	S*	25 00.3		-1.3					
ROX	PN	04 24 56.0		-1.9	1.05	192		4.3	4.2
	IP*	57.0		0.4					
	ESN	25 09.5		-3.3					
	IS*	11.7		1.0					
OMZ	PN	04 24 57.5		-1.1	1.10	125		4.3	4.3
	IP*	58.8		1.3					
	S*	25 14		1.6					
MNW	PN	04 25 10.4		0.6	1.95	226		4.0	3.9
	EP*	12.0		-0.0					
	E	38.2							
	IS*	39.3		2.0					
WPZ	EP*	04 25 16.3		-1.1	2.27	194		4.1	3.9
	ES*	48		0.4					
GPZ	E	04 25 22			2.30	72	3.5		

		ES*			52		3.7*					
	KAI	E		04	25	33			2.32	34	3.3	
		ESN				44		1.4				
		ES*				48		-1.0				
	COB	EPN		04	25	39		0.5	4.06	35	3.9	3.7
		E				41						
		ESN			26	26		1.1				

	H	M	S									72/ 013
JAN 10	13	16	41.8	37.56S		175.77E		12 KM	SE 1.7		AVG MAG	3.3
		+-	0.5	0.03		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP		PG	13	16	49.5		-0.5	0.41	207		
			ISG			54.6		-1.4				
	WTZ		EPG	13	17	02		-1.2	1.05	114	3.3	2.9
			ESG			16		-1.5				
	AUC		IPG	13	17	02.5		-0.7	1.06	311		
			I			04.5						
			IS*			13.5		-1.7				
			ISG			17.4		-0.2				
	GBZ		EP*	13	17	08.0		1.9	1.36	350	3.2	3.5
			EPG			11.0		1.7				
			SG			27		-0.7				
	CNZ		P*	13	17	12.8		1.8	1.65	186	3.5	
	MNG		EP*	13	17	37.8		2.5	3.06	184	3.2	
	FELT WALTON (25) MM V MANJREWA(19) MM IV											

	H	M	S									72/ 014
JAN 12	01	46	25.4	44.71S		167.43E		66 KM	SE 1.1		AVG MAG	3.9
		+-	0.9	0.03		0.05		7				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	MSZ		IP	01	46	38.0	U	1.0	0.33	84		
			ES			45		-0.6				
	MNW		P	01	46	45.8	U	0.5	1.08	174	4.1	4.6
			S			59.0		-1.2				
	ROX		E	01	46	57			1.53	121	3.6	3.6
			E		47	02						
			ES			12		1.3				
	WPZ		EP	01	47	01		0.7	2.19	154	3.7	3.9
			ES			25		-1.2				
	OMZ		EP	01	47	05		0.5	2.49	100	3.8	3.9
			ES			34		0.2				
	COB		EP	01	47	44		0.1	5.30	49	4.0	3.9
			ES		48	43		-1.4				

	H	M	S									72/ 015
JAN 12	04	40	41.8	45.28S		166.71E		33 KM	SE 1.6		AVG MAG	4.3
		+-	1.7	0.06		0.10		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	MNW		IP	04	40	55.5		-0.7	0.81	128		4.8 4.6
			S		41	05		-1.8				
	MSZ		IP	04	40	57.7		-1.9	1.05	55		4.4 4.6
			I			59.3						
			S		41	11.5		-1.2				
	ROX		EP	04	41	11		0.5	1.85	97		4.1 4.5
			S			33		0.9				
	WPZ		EP	04	41	15		2.0	2.03	133		3.9 4.0
			E			41						
	MJZ		EP	04	41	27		1.0	2.98	66		
			S		42	01		1.4				
	OMZ		EP	04	41	26		-0.1	2.98	87		3.9 4.4
			I			28						
	MNG		E	04	42	38			7.94	57		
			E			42						

	H M S									72/ 016
JAN 12	04 44 33.4	37.48S	175.76E	12 KM	SE	1.3	AVG MAG			3.8
	+- 0.3	0.02	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP PG	04 44 41.0		-2.3	0.48	202				
	AUC PG	04 44 53		-0.7	1.00	308				
	WTZ PG	04 44 55.0		-0.6	1.09	118		3.3	3.5	
	E	56.8								
	SG	45 10.3		-0.1						
	GBZ IPG	04 44 58.0		-1.3	1.28	350		4.0	4.2	
	SG	45 17.0		0.4						
	TUA EPG	04 45 08		-0.2	1.72	141		3.8		
	CNZ P*	04 45 04.5		0.6	1.73	186		4.1		
	EPG	07.5		-0.8						
	TNZ E	04 45 06			2.02	212		3.7		
	EP*	09		-0.1						
	ONE EP*	04 45 11		1.7	2.04	326		4.1		
	ES*	36		-0.3						
	E	39.6								
	MNG EPN	04 45 24		2.2	3.14	184		3.9	3.4	
	EP*	29.8		1.6						
	E	46 12								
	COB EPN	04 45 37.5		-0.0	4.30	212				
	E	45								
	FELT TE AROHA (25) MM IV									

	H M S									72/ 017
JAN 12	08 53 06.1	38.31S	176.13E	172 KM	SE	1.3	AVG MAG			4.0
	+- 0.9	0.04	0.04	B						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P	08 53 31.0		0.5	0.60	310		3.4		
	ES	49		-0.4						
	WTZ EP	08 53 30.3		-1.1	0.75	65		2.7		
	E	47								
	TUA P	08 53 33.2		0.6	0.94	122		4.3	4.2	
	S	52		-1.2						
	CNZ P	08 53 34.2		1.2	1.00	207		4.2		
	TRZ P	08 53 37.7		1.5	1.35	157		4.2	4.2	
	ES	54 01.5		2.1						
	E	04.0								
	GNZ EP	08 53 38		0.2	1.52	103		3.9	4.2	
	S	54 01		-1.3						
	TNZ P	08 53 41.0		2.2	1.62	237		3.9		
	GBZ P	08 53 44.0		-0.6	2.15	346		3.4		
	MNG IP	08 53 48.1	U	1.1	2.36	192		4.7	4.1	
	S	54 18		-0.5						
	WEL P	08 53 56.7		-0.1	3.15	199	4.1	4.5	3.8	
	ES	54 34		-1.8						
	COB EP	08 54 04		-1.2	3.81	222		3.7	4.0	
	ES	50		-0.8						

	H M S									72/ 018
JAN 12	15 07 40.2	37.58S	175.69E	12 KM	SE	0.6	AVG MAG			3.1
	+- 0.2	0.01	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP PG	15 07 47.8	U	-0.1	0.36	200				
	SG	52.6		-0.4						
	WTZ EPG	15 08 02		-0.6	1.10	112			2.9	
	ESG	17.8		0.2						
	GBZ EP*	15 08 05.0		0.2	1.37	353		3.2	3.3	
	EPG	07.8		-0.2						
	SG	24		-2.6*						
	CNZ EP*	15 08 10		1.0	1.62	184		2.9		
	EPG	13		-0.1						
	E	42								
	FELT TAURANGA (26) MM IV									

	H	M	S								72/ 019
JAN 12	16	00	08,7	37.59S	175.69E	12 KM	SE	1.2	AVG MAG		3.8
	+-		0,3	0.02	0.02	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	PG		16	00 16.2		0.1	0.35	200			
AUC	P*		16	00 28		0.6	1.03	315			
	I			50							
WTZ	PG		16	00 30.2		-0.9	1.10	111		3.7	3.5
	ESG			46		0.0					
GBZ	EP*		16	00 34.2		0.9	1.38	353			4.1
	I			35.0							
	IPG			36.0		-0.7					
	SG			54.3		-1.1					
CNZ	P*		16	00 38.2		0.9	1.61	184		4.3	
	IPG			39.1		-2.2					
TUA	EPG		16	00 44		1.4	1.67	137		3.6	
TNZ	EP*		16	00 42		-0.2	1.90	212		3.7	
	EPG			47		-0.1					
ONE	EP*		16	00 48		2.2	2.10	329	3.2		
	ES*			01 14		0.4					
GNZ	EPG		16	00 53		1.4	2.12	120		3.8	
TRZ	EPG		16	00 51		-1.2	2.15	156		3.7	
MNG	EP*		16	01 00.5		-1.0	3.03	183		4.1	3.4
	I			04.8							
	E			47							
COB	EPN		16	01 12		0.9	4.17	212		4.1	
	EP*			22		0.8					

FELT WAIHI BEACH (21) TAURANGA (26) MM IV

	H	M	S								72/ 020
JAN 12	17	12	09.6	37.57S	175.71E	12 KM	SE	1.4	AVG MAG		3.7
	+-		0.3	0.02	0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	PG		17	12 17.8	U	0.2	0.38	201			
	SG			22.8		-0.2					
AUC	PG		17	12 29.5		-0.9	1.02	313			
	I			32							
	ISG			47		2.7					
WTZ	EPG		17	12 31.9		0.0	1.10	113		3.4	3.9
	SG			48.1		1.4					
GBZ	EP*		17	12 33.3		-0.6	1.36	352		3.7	4.1
	E			35.7							
	IPG			38.4		1.3					
	SG			53.7		-1.8					
CNZ	EP*		17	12 39.0		0.4	1.64	184		3.9	3.8
	IPG			40.6		-2.1					
	ESG			13 04		-0.8					
TNZ	EP*		17	12 44		0.4	1.92	212		3.7	3.4
	E			13 16							
ONE	EPG		17	12 50		-1.9	2.09	328	3.4		
	ES*			13 14		0.0					
GNZ	EPG		17	12 53		0.5	2.12	121		3.8	
TRZ	EPG		17	12 52		-1.4	2.17	157		3.7	
MNG	EP*		17	13 04		1.1	3.05	183		3.6	
	I			07.2							
COB	EPN		17	13 14		1.6	4.20	212		3.9	
	E			29							

FELT CAMBRIDGE (24) MM IV

	H	M	S								72/ 021
JAN 14	03	32	50,9	49.19S	163.97E	33 KM	SE	0.7	AVG MAG		4.1
	+-		1.2	0.11	0.19	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	EP		03	33 51		-0.9	4.22	37		4.6	4.0
	I			52.0							
	S			34 39		0.2					
MSZ	EP		03	34 07		0.8	5.27	32		4.1	3.8

		S		35 04		-0.2						
	OMZ	P	03	34 20		0.1	6.28	52				
	COB	EP	03	35 12		-0.0	10.19	41				
	H	M	S									72/ 022
JAN 14	13	40	37.9	33.34S	179.01W	33 KM	SE	1.3	AVG MAG			4.6
		+-	1.4	0.13	0.19	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		13	41	47		0.3	4.78	204		4.7	
	WTZ	EP		13	41	58.6		0.0	5.67	214		4.1	4.1
		S			43	02		1.2					
	GNZ	EP		13	41	59		-1.6	5.82	204		4.7	
		E			42	10							
		S			43	04.3		0.1					
	TUA	EP		13	42	06		-0.9	6.28	209			
		E				18							
		ES			43	16		0.4					
	KRP	EP		13	42	09		0.8	6.38	223			
		E			43	26							
	MNG	EP		13	42	38		1.4	8.50	210			
		E			43	59.3							
	WEL	S		13	44	24		-4.9*	9.35	210	5.4		
	COB	ES		13	44	46		-1.8	10.15	218			
	H	M	S									72/ 023
JAN 15	04	53	15.3	37.49S	176.63E	258 KM	SE	0.9	AVG MAG			4.2
		+-	1.0	0.06	0.07	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	P		04	53	48.4		-1.0	0.57	150		4.1	3.9
		E			54	12							
		ES				15		-1.0					
	KRP	EP		04	53	52		0.9	0.97	243		3.2	
	TUA	P		04	53	54.7		0.8	1.38	163		4.4	4.5
		S			54	25		1.5					
	ECZ	P		04	53	55		-0.0	1.53	98		4.8	
	GBZ	E		04	54	35			1.57	324		3.3	
	GNZ	P		04	53	55.5		0.1	1.59	137		5.3	4.8
		S			54	26		-0.3					
	TRZ	E		04	54	30			2.07	176		4.7	
		ES				39		3.6*					
	MNG	EP		04	54	11		-0.4	3.25	196		4.0	4.1
		S				55		-0.0					
	WEL	ES		04	55	11		-0.4	4.06	200	4.4		3.9
	H	M	S									72/ 024
JAN 15	15	35	38.8	45.07S	167.25E	12 KM	SE	1.7	AVG MAG			4.3
		+-	1.0	0.03	0.05	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP*		15	35	48.4	U	-2.1	0.62	50			
	MNW	IP*		15	35	53.1		0.2	0.76	160			
		S*			36	04		0.7					
	ROX	P*		15	36	06.2		0.3	1.52	106		4.6	4.3
		S*				25		-1.1					
	WPZ	EPN		15	36	10		-1.0	1.95	146		4.4	4.6
		EP*				12.2		-1.0					
		S*				38		-1.0					
	MJZ	EPN		15	36	19.8		0.5	2.54	66		3.9	
		EP*				25		1.6					
		ESN				51		1.4					
	OMZ	EPN		15	36	20.5		0.5	2.60	91		4.4	4.4
		EP*				23		-1.4					
		ES*			37	01		2.5					
	COB	EPN		15	37	01		-0.0	5.65	47		4.2	3.8
		ESN			38	01		-3.3					
	MNG	EPN		15	37	29		3.1	7.51	57			

	H M S								72/ 025
JAN 16	06 22 35.2	43.30S	168.56E	33 KM	SE 1.1		AVG MAG		4.1
	+- 0.6	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ EPN	06 22 58		-0.4	1.45	199		4.2	4.5
	EP*	23 01		-0.5					
	SN	16.5		0.7					
	MJZ PN	06 23 00		0.4	1.54	117			
	E	08							
	ESN	16.5		-1.5					
	KAI EP*	06 23 13		-1.7	2.23	71			3.5
	ES*	45		0.9					
	ROX ES*	06 23 45		0.3	2.25	166			4.3
	OMZ EPN	06 23 12		-0.1	2.45	137		4.2	
	EP*	20		1.5					
	MNW EPN	06 23 13		-0.8	2.57	195		4.1	3.8
	E	24							
	SN	48		4.9*					
	COB PN	06 23 31.0		0.4	3.80	56		4.2	
	MNG EPN	06 23 57		-0.8	5.81	65		4.1	
	I	24 01.3							
	CNZ EPN	06 24 11		1.6	6.67	54			

	H M S								72/ 026
JAN 16	18 39 53.2	43.24S	170.84E	12 KM	SE 1.3		AVG MAG		3.8
	+- 0.4	0.03	0.05	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ IP*	18 40 08.8		0.8	0.80	200		3.9	3.5
	S*	20		1.1					
	KAI EP*	18 40 08		-0.4	0.82	31	3.3		
	ES*	18		-1.7					
	OMZ P*	18 40 25.8		0.1	1.84	178		4.1	4.2
	S*	48		-2.1					
	MSZ EPN	18 40 35.2		1.4	2.55	235		3.8	3.6
	EP*	37.8		-0.2					
	I	46.2							
	ES*	41 10		-1.6					
	COB EPN	18 40 34.5		0.5	2.57	34		3.8	3.8
	S*	41 12		-0.1					
	MNW EPN	18 40 46		0.4	3.43	221		3.7	
	EP*	57		3.9*					
	MNG EPN	18 40 59.5		1.6	4.34	55		3.7	
	E	41 05							

	H M S								72/ 027
JAN 16	19 00 46.0	43.24S	170.87E	12 KM	SE 1.6		AVG MAG		3.8
	+- 0.4	0.04	0.05	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ IP*	19 01 00.0	U	-0.7	0.80	201			
	ES*	13		1.3					
	KAI EP*	19 01 00		-1.0	0.82	29	3.2		
	S*	10		-2.2					
	OMZ P*	19 01 18.0		-0.3	1.83	179		4.2	4.2
	S*	41		-1.6					
	COB EPN	19 01 26.8		0.2	2.56	33		3.9	3.9
	ESN	02 00		2.8					
	ES*	05		0.5					
	MSZ EPN	19 01 27.0		0.2	2.57	235		3.7	3.6
	EP*	30.0		-1.0					
	I	38.3							
	ES*	02 03		-1.8					
	MNW EPN	19 01 39		0.5	3.44	221		3.7	3.4
	EP*	49		3.0					
	E	02 25							
	MNG EPN	19 01 50.5		0.1	4.32	54		3.8	
	E	57							

		H	M	S									72/ 028
JAN 17		15	27	31.7	40.96S		172.84E		203 KM	SE	1.5	AVG MAG	4.4
				+- 0.7	0.06		0.05		7				
					H	M	S	DIR	RES	DIST	AZ	W-A W P	W S
	COB		P		15	28	01.0	U	2.4	0.15	212		
			S				20.0		0.8				
	WEL		IP		15	28	07.8	U	1.9	1.49	103	5.0	4.8
			S				32.6		0.2				
	KAI		ES		15	28	38		-1.0	1.89	214		
	MNG		P		15	28	09.8		-1.4	2.04	81		
			I				12.6						
			S				41		-0.7				
	CHR		E		15	28	58			2.57	183		
	CNZ		P		15	28	19.8		0.9	2.72	51	4.4	4.8
			S				54		-1.4				
	TRZ		EP		15	28	28		1.5	3.36	67	4.2	4.7
			S			29	09.8		1.2				
			E				12.0						
	MJZ		P		15	28	29.0		1.0	3.49	209	3.8	3.8
			S			29	09		-2.5				
	KRP		S		15	29	14		-1.7	3.68	35		3.7
	TUA		EP		15	28	35		1.3	3.96	58	4.3	4.8
			S			29	21		-0.6				
	OHZ		ES		15	29	30		-0.3	4.34	198		3.9
	WTZ		EP		15	28	40		1.0	4.38	49	3.7	4.1
			S			29	29		-2.1				
	GNZ		IP		15	28	42.8		0.8	4.62	62	5.0	5.1
			E			29	29.5						
			S				35.5		-1.0				
	MSZ		P		15	28	48.7		-0.5	5.18	223	4.4	4.1
			S			29	45.0		-4.3*				
	FELT NELSON (76) MM III												

		H	M	S									72/ 029
JAN 17		16	32	03.7	39.00S		175.49E		12 KM	SE	0.8	AVG MAG	3.5
				+- 0.3	0.01		0.02		R				
					H	M	S	DIR	RES	DIST	AZ	W-A W P	W S
	CNZ		IP*		16	32	08.1	U	-0.2	0.20	167		
			IS*				10.9		-0.6				
	KRP		P*		16	32	23.0		-0.2	1.08	2	3.6	
			S*				38		0.3				
	TRZ		EP*		16	32	24.0		-0.9	1.17	118	3.6	3.4
			ES*				41		0.4				
	TUA		E		16	32	23			1.31	82		
			EP*				26		-1.2				
			E				42						
	WTZ		EP*		16	32	32		0.6	1.56	50		
	MNG		P*		16	32	32.8		0.4	1.61	180	3.6	3.2
			ES*				55		1.1				
	GNZ		EP*		16	32	40		0.8	2.01	81	3.8	
			I				43.5						
	COB		EP*		16	32	55		-0.6	2.97	225	3.5	

		H	M	S									72/ 030
JAN 17		16	48	39.0	39.01S		175.57E		12 KM	SE	1.0	AVG MAG	3.5
				+- 0.3	0.02		0.03		R				
					H	M	S	DIR	RES	DIST	AZ	W-A W P	W S
	CNZ		IP*		16	48	43.0		-0.3	0.19	185		
			ES*				45.5		-0.8				
	KRP		P*		16	48	58.0		-0.6	1.08	359		
			S*			49	13.3		0.1				
	TRZ		EP*		16	48	59.5		0.4	1.11	120	3.5	
			E			49	13						
	TUA		EP*		16	49	00.5		-1.0	1.25	81	3.6	3.5
			ES*				17		-1.2				
	WTZ		EP*		16	49	07		1.1	1.51	48	3.1	
	MNG		P*		16	49	08		0.4	1.61	182	3.7	3.1

		ES*			30		1.0					
		E			34							
	GNZ	EP*		16	49 15		1.5	1.95	80		3.8	
		E			17							
	COB	EP*		16	49 31		-0.5	3.01	225		3.5	

	H	M	S									72/ 031
JAN 17	18	48	45.1	38.99S		175.53E	12 KM	SE	1.5	AVG MAG		3.7
		+-	0.5	0.03		0.04	R					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	CNZ	P*		18	48	49.0	U -0.7	0.21	177			
		ES*				51.5	-1.4					
	KRP	P*		18	49	04.0	-0.4	1.07	0		4.1	
		ES*				19	0.2					
	TRZ	P*		18	49	05.4	-0.4	1.15	120		3.9	3.8
		ES*				24	2.8					
	TUA	EP*		18	49	06	-2.0	1.28	82		3.9	3.9
		ES*				23	-2.1					
	WTZ	EP*		18	49	13	0.7	1.52	49		3.1	
	MNG	P*		18	49	14.0	0.0	1.62	181		3.8	3.2
		ES*				35	-0.5					
	GNZ	EP*		18	49	22	2.0	1.98	81		4.0	
		E				24						
	WEL	EP*		18	49	28	1.4	2.36	194		3.5	
	COB	EP*		18	49	38	0.5	3.00	225		3.7	

	H	M	S									72/ 032
JAN 17	19	25	40.8	37.58S		175.69E	12 KM	SE	1.8	AVG MAG		4.1
		+-	0.4	0.02		0.04	R					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	KRP	IPG		19	25	57.5	1.0	0.37	199			
		SG			26	02.5	0.8					
	AUC	PG		19	26	09	-0.6	1.02	314			
	WTZ	EPG		19	26	10.3	-1.0	1.11	112		3.9	3.9
		SG				26.5	0.2					
	GBZ	EP*		19	26	12.5	-0.8	1.37	353		4.3	4.4
		I				14.4						
		IPG				16.0	-0.5					
		E				33.2						
	CNZ	EP*		19	26	18	0.3	1.62	184		4.4	
		I				20.5						
		E				44						
	CNZ	EP*		19	26	18	0.3	1.62	184		4.4	4.3
		IPG				20.5	-1.2					
		ESG				44	0.4					
	ONE	EP*		19	26	26	0.3	2.09	329	3.5		
		EPG				31	-0.1					
		ES*				54	0.7					
	GNZ	EPG		19	26	34	2.2	2.13	121		4.2	
	MNG	EP*		19	26	39	-2.9	3.04	183		4.3	3.8
		I				46						
		SN			27	29	17.7*					
	MNG	EPN		19	26	39	3.1	3.04	183		4.3	
		PG				46	-4.3					
		E			27	29						
	COB	EPN		19	26	53.5	2.1	4.19	212		4.0	
		E			27	02						
	FELT ONEWHIRO (19) MM IV											

	H	M	S									72/ 033
JAN 19	01	20	38.3	41.28S		175.21E	12 KM	SE	0.9	AVG MAG		3.6
		+-	1.1	0.05		0.05	R					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	WEL	P*		01	20	45.3	0.2	0.33	269			
		S*				49.3	-0.7					
	COB	EP*		01	21	12.5	1.3	1.88	275		3.7	3.7
		S*				36	-0.4					
	CNZ	P*		01	21	14.2	-1.0	2.09	7		3.7	3.7

		S*		43		0.1					
	TNZ	ES*	01	21 46		0.4	2.18	343			3.3
	FELT LOWER HUTT (68) MM IV										

	H M S									72/ 034
JAN 19	05 07 43.7	39.59S	177.29E	12 KM	SE 1.4		AVG MAG	3.8		
	+- 1.2	0.06	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TRZ P*	05 07 50.2	D	-0.8	0.36	276				
	S*	56		-0.3						
	TUA EP*	05 07 59.0		0.7	0.79	352		3.6	4.0	
	S*	08 11.0		1.9						
	GNZ EP*	05 08 04		0.3	1.11	31		4.0	4.3	
	E	12								
	E	35								
	CNZ P*	05 08 08.0		-0.8	1.41	286		4.3	4.3	
	ES*	28		0.4						
	WTZ EP*	05 08 11		-1.5	1.62	352		3.4	3.2	
	E	16								
	ES*	32		-2.1						
	KRP EP*	05 08 23.0		1.3	2.16	320		3.2		
	TNZ EP*	05 08 25		1.0	2.29	279		3.6		
	COB EP*	05 08 46		-3.6*	3.79	245		3.6		

	H M S									72/ 035
JAN 19	05 10 22.9	39.58S	177.22E	12 KM	SE 1.0		AVG MAG	3.8		
	+- 0.9	0.05	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TRZ P*	05 10 29.0		-0.3	0.31	274				
	S*	33.0		-0.9						
	TUA P*	05 10 38.0		0.8	0.77	356		3.7	3.8	
	E	50.5								
	GNZ EP*	05 10 42.3		-0.9	1.12	34		4.0	4.3	
	E	50.5								
	E	11 13								
	CNZ P*	05 10 46.5		-0.6	1.35	286		4.5	4.3	
	ES*	11 06		0.8						
	WTZ EP*	05 10 51.5		0.1	1.60	353			3.4	
	E	54.5								
	ES*	11 12		-0.7						
	KRP EP*	05 11 01.5		1.4	2.11	321		3.3		
	TNZ EP*	05 11 03.5		1.2	2.24	279		3.6	3.3	
	ES*	31		-0.8						
	COB E	05 11 26			3.75	245		3.6	3.4	
	E	58								

	H M S									72/ 036
JAN 20	03 38 44.8	45.05S	167.63E	124 KM	SE 1.5		AVG MAG	4.3		
	+- 1.4	0.06	0.05	12						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MSZ P	03 39 04.2	U	1.2	0.43	28				
	MNW P	03 39 04.8		-0.2	0.73	181		4.4	4.6	
	S	18.8		-1.7						
	ROX P	03 39 11.8	D	1.5	1.27	110		4.4	4.0	
	S	30		0.3						
	WPZ P	03 39 17.2		0.6	1.82	153		4.9	4.2	
	ES	40		-0.8						
	MJZ EP	03 39 23.8		1.2	2.29	63				
	S	52		0.9						
	OMZ P	03 39 23		-0.1	2.33	92		3.9	4.3	
	S	52		-0.1						
	COB ES	03 41 04		-2.7	5.44	45		3.9		

	H M S									72/ 037
JAN 20	13 05 07.5	37.35S	175.45E	33 KM	SE 1.4		AVG MAG	3.3		
	+- 0.5	0.03	0.06	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P*	13 05 19.0		-0.3	0.58	173		3.4	3.6	

		S*			27.0	-0.8				
	AUC	P*	13	05	23.8	2.1	0.73	312		
	GBZ	P*	13	05	26.8	-1.5	1.13	1		3.3
		S*			43.2	-0.4				
	WTZ	EP*	13	05	34.2	1.7	1.37	118		3.1
	ONE	EP*	13	05	40	0.4	1.80	330	3.0	
		ES*		06	03	-0.6				
	CNZ	EP*	13	05	40	-0.5	1.85	178		3.6

	H	M	S								72/ 038
JAN 21	04	40	13.6	32.72S	178.69W	267 KM	SE	0.8	AVG MAG		4.9
		+-	0.8	0.04	0.05	15					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ		EP	04	41	42.5		0.5	5.94	232		4.2	
	WTZ		P	04	41	45.8		-0.9	6.33	213			
			ES		43	00		0.3					
	GNZ		EP	04	41	47.5		-1.2	6.49	203			
			ES		43	03		-0.3					
	TUA		EP	04	41	54		-0.5	6.95	208			
			ES		43	14		0.4					
	KRP		P	04	41	56.7		1.4	7.01	221			
	CRZ		EP	04	42	00		-0.1	7.40	254			
	TRZ		EP	04	42	05		0.8	7.72	207			
			ES		43	31		0.0					
			E		44	08							
	WEL		ES	04	44	20		-2.7*	10.02	210	5.5		
	COB		ES	04	44	40		-0.5	10.80	217			
	CIZ		ES	04	44	53		0.3	11.34	172			

	H	M	S								72/ 039
JAN 21	20	38	39.5	38.27S	176.00E	174 KM	SE	1.5	AVG MAG		4.0
		+-	1.2	0.08	0.08	13					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		EP	20	39	04.5		-1.1	0.83	70		3.7	3.5
			ES			26		0.3					
	TUA		EP	20	39	10		2.8	1.05	121		4.1	4.3
			E			27							
	TRZ		ES	20	39	35		0.4	1.44	154			4.3
	GNZ		EP	20	39	13.3		0.7	1.63	104		4.2	
			ES			36		-2.1					
	ECZ		P	20	39	17.4		-0.2	2.10	75		4.5	
	WEL		P	20	39	30.3		-0.2	3.16	197	4.2	4.4	3.9
			S		40	09.8		0.1					
	COB		EP	20	39	38		-0.3	3.78	221		3.4	3.9
			ES		40	23		-0.6					

	H	M	S								72/ 040
JAN 21	21	55	33.2	45.11S	167.63E	123 KM	SE	1.0	AVG MAG		3.9
		+-	1.0	0.05	0.05	7					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ		IP	21	55	52.2	U	0.7	0.48	24			
			ES		56	05.5		-0.1					
	MNW		P	21	55	53.7		0.8	0.67	182		3.8	4.4
			S		56	07.0		-1.0					
	ROX		ES	21	56	18		0.5	1.24	108			3.5
	OMZ		ES	21	56	40		-0.2	2.32	90			4.0
	COB		EP	21	56	53		-0.7	5.48	45		3.9	

	H	M	S								72/ 041
JAN 22	21	52	23.2	33.00S	178.80W	295 KM	SE	1.3	AVG MAG		5.0
		+-	1.3	0.08	0.09	16					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		EP	21	53	43		0.1	5.16	204		5.1	4.9
			ES		54	46		0.6					
	WTZ		EP	21	53	52		-1.5	6.04	213			
			ES		55	04		-0.3					
	GNZ		EP	21	53	54		-1.3	6.19	204			
			ES		55	06		-1.6					

TUA	P	21 54 02.2	1.2	6.66	208		
	ES	55 19	1.2				
KRP	EP	21 54 03	1.0	6.74	222		
	E	07					
TRZ	EP	21 54 11	0.5	7.43	207		
	ES	55 36	1.3				
TNZ	E	21 55 19		8.28	220		
WEL	ES	21 56 24	-1.8	9.73	210		
COB	E	21 54 55		10.53	218		
	ES	56 44	0.5				
CIZ	ES	21 56 56	0.3	11.07	172		

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	H M S									
JAN 23	15 52 20.0	46.29S	166.60E	33 KM	SE 1.4	AVG MAG	4.2			
	+- 1.4	0.05	0.07	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
MNW	IPN	15 52 34.1	U	-1.2	0.87	55		4.6	4.6	
	ESN	46		-0.5						
WPZ	PN	15 52 43.9		-1.3	1.60	104		4.4	4.2	
	ESN	53 04		-0.1						
MSZ	EPN	15 52 48.5		-0.4	1.87	30		4.1	4.1	
	E	51.2								
	ES*	53 18		-0.1						
ROX	EPN	15 52 53		1.4	2.07	68		4.3	4.6	
	ESN	53 18		2.5						
MJZ	E	15 53 20			3.58	51		3.7	3.6	
	EP*	24		1.5						
	ES*	54 09		-0.3						
GPZ	E	15 54 20			5.01	61	4.4			
	ES*	51		-1.4						
KAI	E	15 53 59			5.10	44	4.2			
	E	54 40								

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	H M S									
JAN 23	16 20 06.8	45.88S	167.34E	110 KM	SE 1.3	AVG MAG	4.1			
	+- 1.2	0.04	0.05	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
MNW	IP	16 20 22.2	U	-0.3	0.22	62				
	ES	33.5		-0.9						
MSZ	IP	16 20 32.0	D	0.5	1.28	19		4.1	4.3	
	ES	50		-0.2						
WPZ	EP	16 20 31		-0.8	1.31	127		4.1	4.6	
	ES	51		0.3						
ROX	P	16 20 35.4		1.8	1.45	74		4.6	4.1	
	ES	55		1.3						
MJZ	EP	16 20 52		-0.8	2.92	51		3.3	4.0	
	ES	21 28		0.5						
GPZ	ES	16 22 00		-2.4	4.37	62	4.0			
KAI	ES	16 22 06		1.4	4.45	43	4.2			
COB	P	16 21 37.8		0.7	6.20	41				
	ES	22 46		-1.1						

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	H M S									
JAN 24	16 57 29.7	39.00S	173.45E	33 KM	SE 1.6	AVG MAG	3.9			
	+- 1.1	0.05	0.05	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
TNZ	PN	16 57 43.4		0.3	0.74	105		3.6	3.5	
	ESN	52		-1.0						
CNZ	PN	16 57 57.6		2.2	1.64	98		4.1	4.7	
	P*	58.7		-0.5						
	ESN	58 16		1.2						
KRP	EP*	16 58 05		0.4	1.96	57		3.6	3.7	
	ES*	30		-0.5						
COB	EPN	16 58 02		-0.5	2.15	195		4.2	4.1	
	ESN	29		1.7						
MNG	PN	16 58 02.6		-1.1	2.24	137		4.3	4.6	
	E	16.9								
	ESN	27		-2.5						

WEL	EPN	16 58 08		0.9	2.49	157	4.1	4.1	4.7
	ESN	35		-0.5					
TRZ	EP*	16 58 15		-1.7	2.67	103		3.5	3.6
	ES*	55		3.1					
TUA	EP*?	16 58 19		-1.5	2.89	87		3.9	
	E	27.5							
KAI	E	16 58 47			3.85	203		2.7	3.1
	E	59 34							

72/ 045

JAN 24 H M S 17 38 40.0 +_ 0.5 — 38.38S 0.03 — 177.68E 0.03 — 12 KM R — SE 1.5 — AVG MAG 3.4

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP*	17 38 46.0	DE	-1.5	0.38	135			
	ES*	54		0.9					
TUA	EP*	17 38 52		0.8	0.60	224		3.4	3.7
	ESN	39 04		-1.5					
WTZ	P*	17 38 52.8		0.3	0.67	306		3.7	4.0
	ES*	39 04		2.3					
ECZ	ESG	17 39 13		0.2	0.97	45			3.9
TRZ	EPG	17 39 08		0.6	1.35	209		3.6	3.4
	E	33							
	E	48							
KRP	PN	17 39 07.3		-2.2	1.75	284		2.9	2.9
	EPG	14.5		-0.8					
	ESN	30		-1.2					
CNZ	EP*	17 39 13		0.2	1.86	243		3.7	
MNG	EPG	17 39 39		2.2	2.81	216		2.7	3.0
	ESG	40 14.5		-0.2					
	E	35.5							

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JAN 25 H M S 00 04 13.4 +_ 0.4 — 38.65S 0.02 — 176.15E 0.03 — 12 KM R — SE 1.3 — AVG MAG 3.1

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	00 04 13.8		-2.0	0.05	289			
	ESG	19		1.6					
CNZ	EPG	00 04 28.5		0.2	0.73	221		3.1	
TUA	PG	00 04 29		-0.5	0.79	102		3.5	
KRP	EPG	00 04 30		-1.2	0.87	326		2.8	2.5
	ESG	44		1.0					
WTZ	EPG	00 04 32.5		0.2	0.93	45		2.8	
TRZ	EPG	00 04 36		1.5	1.04	151		3.5	3.4
	E	55							
MNG	EPN	00 04 46		-0.8	2.04	195		3.2	2.8
	ESG	05 22		-0.1					

FELT TAUPO (41) MM III

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JAN 26 H M S 01 29 29.0 +_ 0.6 — 37.82S 0.04 — 176.74E 0.04 — 12 KM R — SE 1.7 — AVG MAG 3.7

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IPG	01 29 34.0	U	-0.6	0.26	129			
	ESG	37.5		-0.9					
KRP	PG	01 29 47.3		-1.2	0.96	264		3.5	3.4
	ESG	30 01		-0.4					
TUA	EPG	01 29 49		-1.1	1.04	162		3.8	3.9
	ESG	30 03.5		-0.6					
GNZ	EPG	01 29 54		-1.4	1.30	129		4.3	3.9
	ESG	30 15		2.0					
	E	19							
QBZ	EP*	01 30 04		1.5	1.89	328		3.8	3.6
	ES*	27		-0.5					
MNG	EP*	01 30 24		3.3	2.96	199		3.2	
COB	E	01 30 40			4.50	222		3.4	

	H M S									72/ 048
JAN 26	08 05 29.6	37.74S	176.80E	12 KM	SE 0.9		AVG MAG	3.6		
	+- 0.4	0.02	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ IP*	08 05 34.8	U	-0.8	0.29	150				
	ES*	38.5		-1.4						
	KRP EP*	08 05 48		-0.1	1.02	259		3.7	3.7	
	EPG	50		-0.4						
	ES*	06 02		0.1						
	TUA EP*	08 05 50		0.5	1.10	166		3.8	3.8	
	ES*	06 05		0.6						
	GNZ EPN	08 05 55		1.5	1.32	134		4.2	4.0	
	E	06 20								
	CNZ E	08 06 09			1.76	214		3.3	3.0	
	ESG	29.5		0.4						
	TRZ EPG	08 06 07		0.7	1.81	180		3.9	3.6	
	E	40								
	GBZ EPG	08 06 07		-0.1	1.85	325		3.8		
	MNG EP*	08 06 22		-1.0	3.06	199		3.0		
	COB EPN	08 06 40.5		2.8*	4.60	222		3.5		
	H M S									72/ 049
JAN 27	02 05 44.2	38.21S	179.99E	169 KM	SE 1.3		AVG MAG	3.8		
	+- 1.5	0.06	0.04	11						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP	02 06 07.2	U	-0.5	0.46	308				
	ES	25		-0.8						
	CNZ IP	02 06 12.2	D	0.8	1.05	199		3.5	3.4	
	E	40								
	TUA EP	02 06 12		0.3	1.09	124		4.0	3.9	
	ES	35		2.1						
	TNZ EP	02 06 18		1.5	1.60	232		3.6		
	GNZ EP	02 06 17		-0.1	1.65	106		4.0	3.9	
	ES	41		-1.4						
	MNG IP	02 06 25.5	U	-0.5	2.44	189		4.2	3.9	
	E	51								
	ES	57		-1.2						
	COB ES	02 07 29		-0.1	3.82	220			3.7	
	H M S									72/ 050
JAN 27	04 56 20.4	38.03S	176.57E	162 KM	SE 1.8		AVG MAG	3.7		
	+- 2.0	0.10	0.08	13						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ EP	04 56 43		0.3	0.33	83				
	ES	57.5		-2.2						
	KRP EP	04 56 46		0.9	0.82	277		3.0	3.0	
	ES	57 04		-0.2						
	TUA EP	04 56 47		1.3	0.90	150		4.2	3.7	
	ES	57 07.5		2.3						
	GNZ EP	04 56 47		-2.2	1.30	119		3.7	4.1	
	E	57 01								
	CNZ IP	04 56 52.0	D	1.6	1.42	214		3.5		
	MNG P	04 57 06.0		0.5	2.72	198		4.0	3.6	
	ES	38.5		-1.4						
	COB ES	04 58 14		-1.0	4.26	223			3.7	
	H M S									72/ 051
JAN 27	13 40 28.0	40.62S	176.95E	12 KM	SE 1.5		AVG MAG	4.0		
	+- 0.7	0.03	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TRZ P*	13 40 47.7	U	0.4	1.07	354		4.4	4.7	
	ES*	41 02		0.3						
	MNG IP*	13 40 48.7	U	0.4	1.12	269		3.5	4.4	
	ES*	41 01.5		-2.0						
	CNZ PN	13 40 56.8	D	-1.2	1.78	322		4.7	4.7	
	ESN	41 18		-2.1						
	WEL EPN	13 40 58		-0.1	1.79	247	3.5	4.1	4.0	

		EPG		41 06		1.7				
		ESN		20		-0.3				
		ESG		27		-1.4				
	TUA	EPN	13 40	58		-0.4	1.81	5	3.8	4.0
		ESN		41 23		2.2				
		E		39						
	GNZ	EPN	13 41	05		2.3	2.13	23	4.2	4.0
		E		19						
		ESN		28		-0.4				
		E		58						
	TNZ	EPN	13 41	08		1.1	2.44	305	3.9	3.8
		EPG		17		-0.5				
		ES*		44		0.9				
	WTZ	EPN	13 41	08		-1.6	2.63	1	3.5	3.7
		EPG		19		-2.2				
		ESN		37		-3.9*				
	KRP	EPN	13 41	12		-1.4	2.90	337	3.6	3.4
		EP*		17		-1.8				
		E		20						
		ESN		50		2.4				
	COB	EPN	13 41	18		0.2	3.24	260	3.9	3.9
		EP*		26		1.5				
		ES*		42 09		2.0				

72/ 052

	H M S								
JAN 27	14 10 03.2	39.30S	175.16E	150 KM	SE 1.2		AVG MAG		4.1
	+- 0.7	0.04	0.03	6					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ IP	14 10 24.8	U	0.7	0.32	72			
	S	38.8		-1.2					
	TNZ EP	14 10 26		0.6	0.62	280		3.4	3.4
	ES	43		0.5					
	E	11 03							
	TRZ EP	14 10 32		0.8	1.31	102		3.9	4.3
	E	48							
	S	54.2		1.6					
	MNG IP	14 10 33.1	U	1.6	1.34	170		4.4	4.1
	E	46							
	ES	52.5		-0.6					
	KRP P	14 10 32.2		0.0	1.40	12		3.2	3.0
	E	52							
	E	11 07							
	TUA P	14 10 35.6	D	1.1	1.62	73		4.5	4.1
	ES	58		-0.4					
	WEL IP	14 10 39.8	U	1.0	2.01	189	4.0	4.4	4.1
	ES	11 06		-0.1					
	GNZ P	14 10 43.1		0.4	2.32	75		4.9	4.3
	ES	11 10.5		-2.4					
	COB EP	14 10 46		0.0	2.58	225		3.8	4.2
	E	53							
	ES	11 17		-1.7					
	ECZ P	14 10 52.3		-0.3	3.10	60		4.8	
	GPZ EP	14 11 13		-1.6	4.78	202	4.7		
	ES	12 04		-5.7*					

72/ 053

	H M S								
JAN 28	03 16 03.1	37.53S	178.73E	33 KM	SE 1.8		AVG MAG		4.4
	+- 1.0	0.05	0.05	8					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ IP*	03 16 08.8	D	-0.3	0.16	248			
	E	13.5							
	GNZ IPN	03 16 22.6	D	0.4	1.16	209		5.1	4.8
	SN	39.5		3.1					
	WTZ IP*	03 16 26.5	D	-2.3	1.43	255			
	E	43							
	E	46							
	TUA PN	03 16 29.5		-0.3	1.71	226		4.4	4.6
	SN	51.5		1.5					

	TRZ	PN	03 16 39.5		-0.2	2.43	217		4.8	4.5
		E	17 10							
		SN	13		5.5*					
	KRP	EPN?	03 16 40		-1.3	2.55	262			
		I	41.8							
		P*	50		2.0					
		ISN	17 11.5		1.2					
	GBZ	PN	03 16 47.4	U	0.4	2.96	297		4.2	
		ES*	17 35		0.9					
	TNZ	PN	03 16 59.5		1.7	3.76	244		3.9	
	MNG	PN	03 16 56.5		-3.4	3.91	219		4.4	4.0
		SN	17 41.5		-2.0					
	WEL	SN	03 18 02.5		-1.8	4.77	219	4.6		4.3
	COB	PN	03 17 23		-2.4	5.79	232			4.0
		SN	18 30		1.1					
	CIZ	PN	03 17 46		0.9	7.25	152			
		SN	19 05		1.1					

	H M S									72/ 054
JAN 28	14 02 29.2	42.33S	172.99E		12 KM	SE	1.5	AVG MAG		4.0
	+- 0.4	0.03	0.03		R					
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	KAI	EPG	14 02 54		0.8	1.18	260	4.0		
		ISG	03 11		1.9					
	COB	IP*	14 02 52.0	U	0.2	1.26	351			
		ES*	03 08		-0.6					
	GPZ	EP*	14 02 54.5		0.5	1.39	190	3.8		
		EPG	57.5		0.2					
		S*	03 12.5		0.0					
	WEL	P*	14 02 58		-1.2	1.69	52	3.7	4.7	4.3
		PG	03 02		-1.5					
		SG	27		0.7					
	MNG	IPN	14 03 09.0	U	-0.6	2.54	48		4.4	4.1
		P*	14		0.3					
		S*	50		2.9					
		SG	54.5		-0.3					
	TNZ	EPN	14 03 17		-3.0	3.32	19		4.0	3.7
		P*	24		-3.0					
		PG	36		-0.2					
		SG	04 22		1.1					
	TRZ	EP*	14 03 39		-0.0	4.02	48		4.3	4.1
		E	41							
		E	05 08							
	MSZ	E(PG)	14 03 56		-1.5	4.37	236		3.7	3.8
		SN	04 29.5		5.5*					
	TUA	P*	14 03 50.5		-0.8	4.74	43		3.9	
	KRP	PN	14 03 42.5		2.3	4.82	25			
		ESN	04 42.5		7.9*					
	GNZ	E	14 04 06			5.32	48		4.1	4.0
		E	12							
		SN	48.5		1.8					

	H M S									72/ 055
JAN 29	00 31 23.3	36.17S	179.55W		33 KM	SE	2.0	AVG MAG		4.4
	+- 1.5	0.09	0.07		R					
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP*?	00 31 57		-4.6	2.15	224		4.8	5.0
		E	32 00							
		S*	27		-3.1					
	GNZ	EPN	00 32 10		0.4	3.14	217		4.5	4.7
		EP*	20		1.7					
		SN	46.5		1.6					
	WTZ	PN	00 32 12		0.0	3.31	236		4.4	4.2
		P*	23		1.8					
		SN	51		1.9					
	TUA	(PN)	00 32 19.5		1.9	3.72	224		4.4	4.6
		SN	33 01		1.9					
	GBZ	P*	00 32 31		-2.4	4.02	268		3.7	

	KRP	EPN	00	32	26	0.5	4.30	244			
		E			45						
		SN		33	14	0.7					
	CNZ	PN	00	32	29	-5.0*	4.93	231		4.7	
	MNG	PN	00	32	46.5	-0.8	5.91	220		3.7	4.1
		SN		33	53.5	1.4					
	WEL	SN	00	34	10	-2.6	6.77	219	4.8		
	COB	SN	00	34	37	0.2	7.78	229			
	CIZ	(PN)	00	33	17	0.2	8.11	165			
		SN		34	44	-0.6					

	H	M	S								72/ 056
JAN 31	09	05	56.2	39.07S	174.95E	234 KM	SE	1.7	AVG MAG		4.1
		+-	1.1	0.06	0.07	9					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	P	09	06	28.5		1.2	0.46	255			
CNZ	IP	09	06	28.5	U	1.1	0.49	106			
	E			51							
	S			53		1.5					
KRP	P	09	06	31.5		0.2	1.23	22			
	S			57		-1.5					
TRZ	E	09	06	34.5			1.53	109		3.5	4.1
	E			44.5							
	S		07	04		1.5					
MNG	IP	09	06	36.1	U	1.9	1.60	165		4.8	4.1
	S		07	03.5		0.0					
TUA	P	09	06	36		0.7	1.74	82		4.2	4.0
	S		07	03		-2.5					
WEL	P	09	06	41.5		1.7	2.22	183	3.5	3.9	3.8
	S		07	13.5		-0.1					
GNZ	P	09	06	42.7		0.6	2.44	81		4.5	4.1
	S		07	15		-2.6					
COB	P	09	06	44.5	U	0.3	2.64	219		4.1	3.9
	S		07	20		-1.5					
ECZ	P	09	06	50		0.2	3.14	65		4.5	
MJZ	S	09	08	30		-2.7	5.95	213			

	H	M	S								72/ 057
FEB 01	02	41	53.5	40.44S	176.72E	12 KM	SE	1.6	AVG MAG		4.1
		+-	0.7	0.03	0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ	PG	02	42	12.1	D	0.4	0.89	5		4.5	4.9
	SG			24		0.1					
MNG	IPG	02	42	13.5	U	0.6	0.96	259		3.9	3.9
	E			21							
	ESG			28		2.0					
CNZ	PN	02	42	20	D	-0.3	1.53	324		4.9	4.7
	P*			21		0.1					
	S*			42		0.7					
TUA	P*	02	42	21.5		-1.7	1.67	12		4.2	4.3
	E			28							
	S*			42.5		-2.8					
	E			59							
WEL	E(PG)	02	42	28		0.0	1.70	240	3.2		
	SG			53		2.1					
	E		43	11							
GNZ	PG	02	42	36.5		1.2	2.06	30		4.1	4.4
	E			42							
	SN			53		0.8					
	E		43	18							
TNZ	P*	02	42	33		0.9	2.19	304		3.6	3.6
	SG		43	06		-1.5					
KRP	EPN	02	42	36		0.2	2.68	340			
	E			43							
	E		43	16							
	S*			18		2.3					
COB	(P*)	02	42	52		4.5*	3.09	257		3.5	3.7
	ES*		43	27		-1.1					

		E			31							
		SG			35		-2.8					
	MJZ	SN	02	44	22		-1.4	5.84	231			
		E			30.5							

	H	M	S									72/ 058
FEB 01	06	07	05.4	41.66S	172.32E	12 KM	SE	1.4	AVG MAG			3.2
		+-	0.5	0.04	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB		PG	06	07	18.5		-0.2	0.65	29		3.1	3.3
		E				21							
			SG			27.5		-0.0					
	KAI	E	PG	06	07	28		0.2	1.10	218	3.0		
			S*			41.5		1.4					
			SG			43		0.3					
	WEL		SG	06	08	08.5		-0.2	1.88	79			3.3
	MNG		P*	06	07	49		-2.0	2.60	68		3.3	3.1
		E				53							
			S*		08	27		1.8					
	MJZ		SG	06	08	35		-1.4	2.70	210			
	FELT MURCHISON (80) MM IV												

	H	M	S									72/ 059
FEB 01	09	54	00.4	44.09S	170.59E	12 KM	SE	1.1	AVG MAG			3.7
		+-	0.4	0.02	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ		IPG	09	54	05.2	DNW	1.3	0.14	318			
			SG			06.5		0.3					
	OMZ		PG	09	54	21		0.1	1.01	167		4.0	4.2
		E				23.5							
			SG			36.5		1.9					
	ROX	E	PG	09	54	35		1.0	1.66	213		3.5	4.0
			S*			52.5		0.6					
			SG			55		-1.4					
	KAI		P*	09	54	29		-1.0	1.67	21	3.2		
			S*			51.5		-0.7					
	MSZ		P*	09	54	35.5		-0.3	2.01	252		3.7	3.7
			PG			41.5		0.5					
			SG		55	07		-1.1					
	COB	E	PN	09	54	53		0.8	3.39	29		3.3	3.7
		E			55	01							
		E				28							
			SN			31		-0.3					
	MNG	E		09	55	23			5.01	48		3.3	
	FELT BURKES PASS (117) MM V												

	H	M	S									72/ 060
FEB 02	17	28	30.8	38.77S	176.09E	113 KM	SE	1.6	AVG MAG			4.0
		+-	0.8	0.04	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		P	17	28	49.5	D	0.6	0.60	224		3.4	3.6
			S		29	03		0.2					
	TUA		P	17	28	51.0	D	0.1	0.84	93		4.3	4.3
			S		29	05		-1.3					
	KRP		P	17	28	53		1.0	0.95	333			
			S		29	07.5		-0.6					
	TRZ		P	17	28	53.1	D	0.9	0.97	144		4.4	4.4
			S		29	11		2.5					
	WTZ		P	17	28	52.8	D	-0.4	1.06	42		3.9	3.8
			S		29	08		-2.2					
	TNZ		P	17	28	59.5		2.4	1.39	252		3.5	
	GNZ		IP	17	28	58.9	D	0.3	1.52	86		5.1	4.7
			S		29	17.5		-2.1					
	MNG		P	17	29	03.3	D	0.6	1.90	194		3.5	3.7
		E				20							
			S			27		-0.5					
	ECZ		S	17	29	37		2.3	2.22	62			4.0
	WEL	E		17	29	44			2.71	201	3.7		3.9

		S			45		-1.6				
	COB	P	17	29	23.5		-0.6	3.46	227	3.6	3.6
		E			25						
		S		30	05		0.4				
	KAI	S	17	30	44		-2.1	5.17	222	3.9	
	HJZ	S	17	31	17.5		-6.1*	6.71	217		
	CIZ	E?	17	30	17			7.57	135		
	MSZ	S	17	31	59		-7.9*	8.48	223		

	H	M	S								72/ 061
FEB 04	01	22	22.4	39.15S	174.63E	226 KM	SE	2.0	AVG MAG		5.2
		+-	0.8	0.05	0.05	7					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	P		01	22	53.5	U	1.7	0.20	258			
	E			23	14							
	ES				17		2.3					
CNZ	IP		01	22	54.3	U	0.8	0.71	95		5.1	5.0
	E			23	15							
	S				17		-0.5					
WNZ	EP		01	22	57		0.2	1.26	66		5.?	5.0
	ES			23	26		2.6					
KRP	IP		01	22	58.9	DSW	1.0	1.41	30			
	S			23	25		-0.5					
MNG	IP		01	23	01.0	U	1.4	1.61	156			
	I				26							
TRZ	P		01	23	01.5		0.7	1.74	104		5.3	5.8
	E				27.5							
	S				30.5		0.0					
TUA	IP		01	23	03.0	D	-0.1	1.99	81		5.2	5.1
	E				26							
	E				31							
	S				33		-1.5					
WEL	IP		01	23	05.6	U	1.0	2.14	177	5.4	5.1	5.6
	E				36							
	S				37		-0.2					
WTZ	IP		01	23	03.9	D	-1.1	2.18	59		4.5	4.5
	S				35		-2.9					
COB	IP		01	23	09.0		1.5	2.43	216			
	E				41.5							
GNZ	IP		01	23	10.5	D	0.1	2.69	80		5.7	5.6
	E				41							
	S				44		-3.6					
GBZ	P		01	23	15.5	D	1.6	3.00	13		4.4	
ECZ	P		01	23	18		-0.5	3.40	66		5.7	4.8
	S			24	00		-2.0					
KAI	S		01	24	16		-2.5	4.17	215	5.4		
MJZ	P		01	23	48.5		0.8	5.76	212			
	S			24	51		-3.1					
OMZ	P		01	23	58.8		1.2	6.53	204			
	E			25	05.5							
	E				09							
	S				13.5		1.6					
	E				27							
ROX	S		01	25	29		-3.9	7.45	210			
MSZ	P		01	24	09.0		-0.4	7.45	220			
	S			25	31		-2.0					
CIZ	E(P)		01	24	34		15.5*	8.16	129			
	ES			25	53		3.7					
	E				57.5							
	E			26	02							
MNW	P		01	24	22		0.2	8.41	216			
	S			25	57.5		2.4					

	H	M	S								72/ 062
FEB 04	13	07	36.0	37.69S	176.96E	184 KM	SE	1.6	AVG MAG		4.3
		+-	0.8	0.03	0.04	6					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP		13	07	58.4		-2.3	0.29	176			

	ES		08 12.5		-7.1*						
TUA	P	13	08 05.5		0.3	1.12	173			4.2	4.4
	E		11								
	S		27.5		-0.3						
KRP	IP	13	08 06.4	DSE	1.0	1.15	258				
	IS		27		-1.2						
ECZ	IP	13	08 05.0	U	-1.3	1.26	91			5.1	5.0
	E		08								
	S		20.5		-9.2*						
	E		28								
	E		33								
GNZ	P	13	08 06		-0.4	1.27	139			4.9	5.2
	S		27.5		-2.4						
TRZ	P	13	08 14		1.9	1.86	183			4.1	4.6
	S		41.5		1.5						
	E		56.5								
CNZ	P	13	08 15		2.8	1.87	216			3.8	3.8
	S		42		1.8						
	E		50								
GBZ	P	13	08 12		-0.4	1.89	321			4.3	3.6
	S		38		-2.6						
AUC	IP	13	08 14.5	D	1.6	1.93	295				
TNZ	E	13	08 23.5			2.52	233				
ONE	P	13	08 25		1.6	2.83	312	3.6			
	S		09 01		1.0						
MNG	P	13	08 28		0.9	3.14	201			4.0	4.0
	E		46.5								
	S		09 07		0.5						
WEL	EP	13	08 37		-0.5	3.97	205	4.5		4.0	4.4
	S		09 26		1.0						
COB	EP	13	08 48		1.0	4.72	223			3.8	4.4
	S		09 42.5		0.4						
KAI	S	13	10 21		-1.3	6.44	220	4.3			
	E		34								
CIZ	ES	13	10 59		1.0	7.95	144				
MJZ	E	13	09 34			7.99	216				
	S		10 56		-2.9						
OMZ	E	13	11 26			8.66	210				
MSZ	E	13	11 35			9.75	222				
	ES		38		-2.1						
MNW	S	13	12 01		-0.8	10.67	218				

	H	M	S										72/ 063
FEB 10	13	04	46.1	39.18S		174.69E		233 KM		SE	1.8	AVG MAG	4.4
		+-	0.8	0.06		0.07		8					
				H	M	S	DIR	RES		DIST	AZ	W-A	W P	W S
TNZ	P			13	05	18		1.5		0.24	268			
	E					42								
	E					48								
CNZ	IP			13	05	19.3	U	1.6		0.67	92		4.5	4.0
	E					43.5								
	S					45		2.7						
KRP	P			13	05	23		0.6		1.42	28			
	S					49		-1.4						
MNG	IP			13	05	25.2	D	1.6		1.56	157		4.8	4.7
	E					47								
	S					52		-0.5						
TRZ	P			13	05	26		1.3		1.70	103		4.3	4.9
	E					49.5								
	S					55.5		1.0						
TUA	P			13	05	28		1.0		1.95	80		4.1	4.6
	E					50								
	S					56		-2.6						
WEL	P			13	05	29.5		1.0		2.11	178	4.7	3.7	4.8
	E					53								
	S				06	02		0.8						
WTZ	IP			13	05	28.6	D	-0.4		2.16	57		3.9	4.0
	S					59		-3.2						

	COB	IP	13	05	32.9	1.2	2.43	218			
		S		06	06	-1.0					
	GNZ	P	13	05	35	0.8	2.65	79		4.6	5.0
		S		06	08.5	-3.0					
	ECZ	P	13	05	44	1.8	3.37	65		4.8	4.2
		S		06	25	-0.8					
	KAI	E	13	05	57		4.17	216	4.3		
		E		06	40						
		S			42	-0.7					
	MJZ	P	13	06	12	0.6	5.75	212			
		S		07	15	-2.9					
	MSZ	P	13	06	32	-1.1	7.46	220			
		S		07	55	-1.9					
	MNW	EP	13	06	47	1.6	8.41	216			

	H	M	S								72/ 064
FEB 11	14	39	33.0	38.19S	177.10E	12 KM	SE 1.2		AVG MAG		4.1
		+-	0.4	0.02	0.02	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	IP*	14	39	45.5	D	0.9	0.62	176		4.5	4.4
	ESG			55		0.9					
GNZ	P*	14	39	47.0		-1.7	0.85	122		4.8	4.7
	PG			48.9		-1.5					
	ESG		40	01.5		-0.5					
ECZ	PN	14	39	56.7		0.7	1.25	67		4.4	4.2
	ESG		40	17		1.8					
KRP	P*	14	39	55.2		-0.5	1.26	282		3.0	3.2
	ES*		40	12.5		-0.2					
TRZ	EPN	14	39	56		-1.7	1.38	189		4.3	4.2
	EP*			58		0.3					
	ESG		40	20		0.5					
CNZ	IPN	14	39	59.7	D	-0.6	1.58	230		4.1	4.0
	EPG		40	05.5		0.5					
	E			15							
MNG	EPN	14	40	16		-0.0	2.73	207		4.0	3.8
	EP*			21		0.2					
	ES*			58		1.3					
WEL	EP*	14	40	33		-2.3	3.57	209		4.1	4.0
	ES*		41	22		-0.1					
COB	EPN	14	40	41		1.9	4.44	228		3.9	4.0
	E		41	37							

	H	M	S								72/ 065
FEB 12	11	36	42.1	40.82S	176.84E	12 KM	SE 1.6		AVG MAG		4.0
		+-	0.8	0.04	0.04	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	11	37	00.7	D	-0.5	1.05	281		4.4	4.5
	ES*			13		-2.3					
TRZ	P*	11	37	05.3	D	0.4	1.27	359		4.6	4.5
	ESG			26.5		1.5					
WEL	PN	11	37	10.5		0.3	1.63	253	3.6	4.1	4.2
	EPG			18		2.8					
	ESN			31		0.2					
	ESG			37		-0.3					
	E			44							
CNZ	EPN	11	37	13		-0.7	1.90	328		4.4	4.5
	ESN			36		-0.9					
GNZ	EPN	11	37	21		1.1	2.36	23		4.2	3.9
	ESG			59		-2.7					
TNZ	EP*	11	37	25		-0.9	2.50	310		3.9	3.6
	ESN			53		1.7					
WTZ	EPN	11	37	28		1.4	2.84	2		3.7	
	EPG			37		-2.5					
KRP	P*	11	37	37		1.4	3.06	340		3.5	3.5
	ES*		38	17		1.2					
COB	EP*	11	37	38		1.4	3.12	264		3.9	3.9
	E			40							
	ESN		38	06		-0.5					

		ES*		17		-0.5			
	GPZ	ESN	11	38	32	-1.5	4.23	226	4.0

	H	M	S									72/ 066
FEB 14	04	55	17.6	32.40S		179.41E	509 KM	SE	1.7	AVG MAG		5.3
		+-	1.4	0.20		0.35	26					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	04	56	51		2.1	5.33	187		5.4	5.1
	ES		58	03		1.9					
WTZ	EP	04	56	55		0.6	5.92	199		5.3	4.7
	ES		58	11		-0.1					
GNZ	EP	04	56	57		-1.5	6.33	190			
	ES		58	16		-2.4					
TUA	EP	04	57	02		0.4	6.66	195			
	ES		58	22		-2.1					
TRZ	EP	04	57	10		0.4	7.44	196			
	ES		58	39		0.5					
CNZ	EP	04	57	09		-0.9	7.48	204			
	ES		58	38		-1.1					
TNZ	EP	04	57	16		1.6	7.91	210			
MNG	EP	04	57	21		-2.6	8.79	200			
	E		58	56							
	ES		59	07		3.3					
WEL	EP	04	57	32		-0.2	9.62	201	5.8		
	ES		59	20		0.6					
COB	EP	04	57	38		-0.2	10.19	210			
	ES		59	30		-0.4					

	H	M	S									72/ 067
FEB 14	21	54	13.4	39.75S		176.81E	33 KM	SE	1.6	AVG MAG		4.0
		+-	0.8	0.04		0.05	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ	IP*.	21	54	20.2		0.4	0.19	3			
	ES*			27		2.7					
TUA	EPN	21	54	30		-0.0	0.98	16		3.9	4.3
	ESN			40.5		-1.9					
CNZ	P*	21	54	33.0		-1.0	1.12	299		4.4	4.2
	ES*			49		-0.3					
MNG	IPN	21	54	34.2	U	-0.8	1.34	229		3.9	3.7
	EP*			40		2.3					
	E			43							
	ESN			51		-0.2					
GNZ	E	21	54	45.4	D		1.45	41		4.4	
TNZ	EP*	21	54	49		0.7	1.96	286		3.7	
WEL	ESN	21	55	11		-0.8	2.19	225	3.9		4.1
COB	EPN	21	55	01		-2.1	3.39	245		3.6	3.7
	E			22							
	ESN			42		0.9					

FELT KOHURAU (51) MM IV

	H	M	S									72/ 068
FEB 15	15	12	45.6	39.22S		175.89E	12 KM	SE	1.5	AVG MAG		4.4
		+-	0.4	0.04		0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP*	15	12	48.7	D	-2.4	0.26	275			
TRZ	EP*	15	13	02.5		2.1	0.80	114		4.2	4.6
	E			17							
TUA	PN	15	13	07.0		0.7	1.08	68		4.5	4.6
	ESN			23		1.4					
TNZ	IPG	15	13	09.7	D	0.5	1.16	271		4.5	3.8
	ESG			26		1.0					
MNG	IPN	15	13	09.9	D	-1.0	1.43	192		4.5	4.7
	ESN			29.5		-0.2					
GNZ	EPN	15	13	15.5		0.0	1.77	72		4.4	4.5
	ESN			35		-2.5					
WEL	EPN	15	13	19.8		-1.8	2.23	202	4.1	4.6	4.7
	EPG			31		0.3					
	ES*			54		-0.2					

	COB	EPN	15	13	34		1.2	3.04	231	4.0	4.3
		ESN		14	09		0.8				

FELT OHAKUNE (49) MM IV AND WAIOURU (50)

		H	M	S									72/ 069
FEB 16	01	15	42.1	37.85S	179.99W	33 KM	SE	1.5	AVG MAG	4.0			
		+-	1.7	0.07	0.08	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EPN		01	16	01		-0.4	1.17	277		4.2	4.4
		E				12							
		ES*				18		-1.4					
	GNZ	EPN		01	16	11		1.6	1.75	242		4.1	4.2
		ESN				32		2.1					
	WTZ	EPN		01	16	18		-0.1	2.39	266		3.6	3.8
		ESN				47		1.5					
	TRZ	E		01	17	05.5			3.02	235			4.1
	MNG	EPN		01	16	45.5		-1.1	4.47	230		3.6	3.7
		ESN			17	36		-0.1					
	WEL	ESN		01	17	55		-1.3	5.31	228	4.6		4.1
	COB	ESN		01	18	24		-0.7	6.49	238			

		H	M	S									72/ 070
FEB 16	07	07	39.6	33.72S	179.15W	285 KM	SE	1.5	AVG MAG	4.7			
		+-	1.5	0.07	0.13	18							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		07	08	51		1.2	4.38	205		4.9	4.9
		ES			09	46		1.2					
		E			10	11							
	GBZ	EP		07	08	56.5		-1.2	5.06	239		4.3	
	WTZ	P		07	08	59.9		-0.5	5.28	215		4.4	4.2
		ES			10	03		-0.7					
		E				23.5							
	GNZ	E?		07	08	57			5.42	204		4.8	4.9
		EP			09	01		-1.0					
		E				18							
		ES			10	05		-1.6					
		E				41							
	ONE	EP		07	09	06		0.4	5.72	247	4.7		
	TUA	EP		07	09	08		0.3	5.89	209		4.7	4.7
		ES			10	17		0.2					
		E				36							
	TRZ	EP		07	09	18		0.9	6.66	208			
		ES			10	36		2.3					
		E			11	09							
	CRZ	EP		07	09	19		-0.0	6.81	262			
	CNZ	E		07	09	33			6.94	216			
		E			11	00							
	MNG	EP		07	09	35		-0.1	8.11	210			
		E				56							
		E			10	45							
		ES			11	03		-2.8					
		E				36							
	WEL	ES		07	11	24		-0.9	8.96	211	5.3		
	COB	ES		07	11	45.5		2.3	9.78	219			

		H	M	S									72/ 071
FEB 16	16	08	06.4	38.32S	175.64E	195 KM	SE	1.1	AVG MAG	4.1			
		+-	0.8	0.05	0.05	9							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	EP		16	08	36.4		-0.3	1.12	73		3.6	3.6
		ES				59		-1.2					
	TUA	EP		16	08	38		-0.1	1.28	113		3.9	4.3
		ES			09	03		0.4					
	TNZ	EP		16	08	40		1.7	1.31	228		3.6	
	TRZ	IP		16	08	41.9	D	1.6	1.54	143		4.4	4.3
		ES			09	08		1.5					
	GNZ	P		16	08	43.9		-0.0	1.90	100		4.5	4.7
		ES			09	11		-1.8					

	MNG	IP	16	08	47.9	U	-0.3	2.30	183		4.6	4.0
		ES		09	19.5		-0.8					
	ECZ	EP	16	08	49		-0.1	2.38	76		4.6	4.1
		ES		09	23		1.0					
	WEL	IP	16	08	56.0	U	-0.8	3.03	192	4.1	4.4	4.0
		ES		09	36		0.4					
	COB	EP	16	09	03		-0.1	3.56	218		3.8	3.9
		ES			46		-1.0					

	H	M	S									72/ 072
FEB 17	14	00	21.1	40.77S	177.00E		12 KM	SE	1.2	AVG MAG		3.9
	+-		0.7	0.03	0.04		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*		14	00	41.3	U	-0.8	1.17	277		4.3	4.5
		ES*				53.5		-4.3*					
	TRZ	EP*		14	00	44		0.9	1.22	353		4.3	4.2
		IPG				46.1		0.2					
		ESG			01	04.3		2.0					
	WEL	EPN		14	00	50.5		-0.4	1.77	252	3.4	4.0	4.1
		EPG				58		1.1					
		E			01	25							
	CNZ	PN		14	00	53.9		0.9	1.93	324		4.4	4.3
		EP*				55		-0.1					
		ESN			01	16		-0.5					
	TUA	EPN		14	00	53		-0.5	1.96	3		3.7	3.6
		E			01	06							
		ESN				17		-0.3					
		ESG				27.5		0.2					
	GNZ	ESN		14	01	24		-0.7	2.26	21			3.8
		E				54							
	TNZ	P*		14	01	06		-0.0	2.56	307		3.7	3.6
		ESG				47		-0.5					
	WTZ	EPG		14	01	15		-2.4	2.78	360		3.3	
	COB	EP*		14	01	20		2.2	3.25	263		3.6	3.8
		ES*				59		-1.4					

	H	M	S									72/ 073
FEB 17	17	14	06.0	45.10S	167.63E		100 KM	SE	1.5	AVG MAG		3.8
	+-		1.7	0.08	0.09		14					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	IP		17	14	23.1	U	-0.4	0.68	180		4.0	4.6
		S				37.0		0.2					
	ROX	EP		17	14	32.5		2.7	1.25	108		3.3	3.4
		E				56							
	WPZ	P		17	14	35.2		-1.0	1.78	152		4.1	4.2
		ES				58		-0.6					
	MJZ	IP		17	14	42.1	D	-1.3	2.32	62		3.4	3.4
		ES			15	11		-0.3					
	OMZ	EP		17	14	45		1.4	2.33	90		3.3	3.8
		ES			15	11		-0.6					
	GPZ	E?		17	14	58			3.86	70	3.9		
		ES			15	49		-0.1					

	H	M	S									72/ 074
FEB 18	09	08	39.0	37.17S	176.64E		293 KM	SE	1.2	AVG MAG		4.7
	+-		1.1	0.10	0.13		11					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	P		09	09	17.0		-1.1	0.86	161		4.4	3.8
		ES				48		-0.7					
	ECZ	P		09	09	22.0		-0.5	1.60	109		5.0	4.5
		S				56		-0.1					
	TUA	IP		09	09	23.8		0.8	1.68	166		5.1	4.7
		S				57		-0.1					
	GNZ	IP		09	09	23.8	U	-0.2	1.83	144		5.2	5.2
		E				54							
		S				57.2		-1.9					
	CNZ	P		09	09	29.0		2.0	2.20	203		4.1	
	TRZ	P		09	09	29.8		1.1	2.38	177		4.7	4.8

		S			10 10.5		3.1*					
	MNG	P		09	09 40.8		0.4	3.56	194		4.7	4.6
		ES			10 28		-0.4					
	WEL	S		09	10 44		-0.3	4.36	199	4.7	4.6	
	MJZ	ES		09	12 07		-1.9	8.27	213			

	H	M	S									72/ 075
FEB 18	18	50	31.7	49.04S	164.63E	33 KM	SE	1.3	AVG MAG			4.3
		+-	1.8	0.14	0.17	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WPZ	EP		18	51	26		0.3	3.70	52		4.2	4.3
		ES			52	07		-0.1					
	MNW	P		18	51	28		0.5	3.84	33		4.5	4.0
		ES			52	11		0.6					
	OMZ	EP		18	51	56		1.3	5.84	50		4.3	
	MJZ	EP		18	52	01		-2.0	6.46	41			
		ES			53	13		-0.5					

	H	M	S									72/ 076
FEB 18	20	08	33.7	44.86S	167.58E	33 KM	SE	1.3	AVG MAG			4.1
		+-	1.1	0.04	0.05	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	IP		20	08	49.5	D	-0.0	0.92	178		4.8	4.6
		S			09	01		-0.3					
	ROX	P		20	08	57.0		1.2	1.37	117		3.9	4.1
		S			09	14		1.6					
	WPZ	ES		20	09	27		-0.7	2.01	154			4.2
	MJZ	P		20	09	07.5		-0.2	2.24	68		3.4	4.0
		S				35.2		1.7					
	OMZ	P		20	09	09.8		0.3	2.38	96		4.1	4.3
		S				35.5		-1.2					
	KAI	ES		20	10	07		-0.2	3.63	51	4.1		
	GPZ	ES		20	10	10		-1.9	3.82	74	4.0		

	H	M	S									72/ 077
FEB 18	23	32	44,6	38.39S	175.88E	200 KM	SE	1.8	AVG MAG			4.9
		+-	0,8	0.03	0.05	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP		23	33	15.3		1.8	0.85	198			
		ES				38		2.1					
	WTZ	P		23	33	13.7		-0.5	0.97	66		4.6	4.5
		S				34.2		-3.0					
	TUA	P		23	33	16.0		1.0	1.08	113		4.8	5.2
		S				38.2		-0.4					
	TRZ	P		23	33	19.9		2.5	1.37	148		5.0	5.4
		S				43.2		0.4					
	TNZ	P		23	33	21.0		3.3	1.41	235		4.6	
	GNZ	P		23	33	21.2		0.8	1.70	99		5.5	5.3
		E				39							
		S				46		-2.1					
	AUC	P		23	33	20.5		-0.5	1.76	330			
	GBZ	P		23	33	24.7		-0.8	2.19	352		4.1	3.6
		ES				56		-0.9					
	ECZ	P		23	33	25.8		0.0	2.22	73		5.5	5.0
		S				57.3		-0.2					
	MNG	P		23	33	28.2	U	2.2	2.25	188		5.3	5.1
		ES				56.5		-1.5					
	ONE	EP		23	33	35		1.6	2.88	335	4.2		
		S			34	10		-1.1					
	WEL	P		23	33	36.2	D	1.3	3.02	196	4.8	5.2	4.7
		S			34	14		0.2					
	KAI	E		23	34	08			5.35	218	4.9		
		S			35	04		-2.1					
	GPZ	P		23	34	10		-0.5	5.84	204	5.3		
		S			35	15		-2.2					
	MJZ	EP		23	34	25.3		0.9	6.02	214			
		S			35	40		-2.3					

	H M S								72/ 078
FEB 21	12 56 49.9	37.72S	176.69E	12 KM	SE	1.5	AVG MAG		4.4
	+- 0.7	0.04	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ IPG	12 56 56.2		-1.3	0.36	138			
	TUA IPG	12 57 11.8		-1.4	1.15	161		4.9	4.5
	I	24.2							
	GNZ IPG	12 57 17.3	U	-1.1	1.40	132		5.3	4.7
	SG	38.4		1.0					
	ECZ PG	12 57 20.8		0.9	1.48	90		4.5	4.3
	E	23.2							
	ESG	40		0.1					
	CNZ PG	12 57 25.2		0.3	1.73	211		3.9	
	I	26.1							
	E	32							
	E	54							
	GBZ EPG	12 57 26		0.1	1.78	327			
	I	33.8							
	TRZ P*	12 57 24.0		1.6	1.84	177		4.9	
	IPG	26.9		-0.2					
	I	29.0							
	MNG EP*	12 57 43.0		-0.1	3.04	197		3.9	
	E	47.8							
	IPG	51.6		0.1					
	WEL E	12 58 03			3.86	202	4.1	3.9	
	EPG	05		-2.9					
	ESN	35		2.8					

SEVERAL FORESHOCKS AND AFTERSHOCKS. WTZ S-P 1.5 SEC
FELT EDGECUMBE (27) MM IV, WHAKATANE (27)

	H M S								72/ 079
FEB 23	18 41 38.7	38.07S	176.24E	180 KM	SE	1.2	AVG MAG		4.5
	+- 0.8	0.04	0.04	6					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP IP	18 42 04.5	U	0.5	0.57	285		4.5	
	S	24.0		0.5					
	WTZ IP	18 42 03.3		-0.3	0.60	82			
	ES	22		-1.7					
	TUA P	18 42 07.8		1.1	1.02	136		4.7	4.4
	ES	29.3		0.9					
	GNZ EP	18 42 10.0		-1.0	1.51	113		5.0	4.8
	I	11.5							
	S	34.8		-1.2					
	TRZ P	18 42 13.2		1.8	1.55	163		4.6	4.8
	I	17.2							
	ES	37.8		1.2					
	ECZ EP	18 42 15.3		0.7	1.86	79		4.4	4.3
	ES	42.3		0.1					
	GBZ P	18 42 15.0		-0.5	1.95	342		3.6	
	MNG IP	18 42 24.0	D	0.8	2.61	193		4.7	4.7
	S	57.2		-0.4					
	WEL P	18 42 32.2		-0.7	3.40	199	4.6	4.5	4.2
	S	43 13		-1.7					
	GPZ S	18 44 14		-5.4*	6.24	205	4.9		

	H M S								72/ 080
FEB 23	19 16 23.5	38.20S	179.50W	12 KM	SE	2.1	AVG MAG		4.5
	+- 1.6	0.07	0.09	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ P*	19 16 53.2		0.9	1.62	287		4.7	4.7
	E	17 19							
	GNZ PN	19 16 58.0		1.7	2.00	256		4.5	
	EP*	17 00.5		1.8					
	E	05							
	I	24.2							
	IS*	26		0.9					
	TUA EPN	19 17 07		1.0	2.70	256		4.4	5.2

		SN		39	1.0					
	WTZ	PN	19	17 09.0	1.9	2.78	273		4.5	4.2
		ESN		38	-2.0					
	TRZ	EPN	19	17 08	-4.4	3.17	244			4.9
		ESN		46.0	-3.2					
		E		54						
	KRP	EPN	19	17 24	1.5	3.93	272		3.8	
		SN		18 07	-0.4					
	CNZ	PN	19	17 25.8	2.3	4.00	254		4.2	4.4
		ISN		18 11	1.8					
	GBZ	EPN	19	17 27	-2.8	4.47	295		3.7	
		EP*		39	-2.0					
	MNG	PN	19	17 32.0	0.7	4.58	237		4.6	4.6
		SN		18 25	1.9					
	WEL	EPN	19	17 42	-0.1	5.39	233		4.4	4.7
		SN		18 42.5	-0.1					
	GPZ	ESN	19	19 44.5	-2.5	8.09	225	5.3		
	MJZ	ESN	19	20 12	-9.0*	9.53	229			

H M S									72/ 081
FEB 24	17 13 15.0	37.50S	175.72E	12 KM	SE 1.5		AVG MAG		3.2
	+- 0.5	0.02	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP IPG	17 13 23.6	U	-0.6	0.44	199			
	SG	29		-1.4					
	AUC PG	17 13 35.5		0.4	0.99	310			
	ISG	50.5		2.0					
	WTZ PG	17 13 37.1		-0.6	1.12	116		2.9	3.2
	SG	53.0		0.2					
	GBZ PG	17 13 40.8		-0.5	1.30	352		3.3	3.6
	SG	59.6		0.7					
	ONE E	17 14 07			2.04	327	2.9		
	ES*	17		-1.0					
	ESG	22		-1.8					
	MNG EP*	17 14 12.0		2.6	3.12	183		3.3	

H M S									72/ 082
FEB 25	10 37 44.7	38.85S	178.58E	33 KM	SE 1.4		AVG MAG		3.7
	+- 1.4	0.06	0.09	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ IP*	10 37 52.9	UW	-2.0	0.48	295			
	TUA PN	10 38 02.2		-1.0	1.11	271		4.2	4.5
	E	09							
	ESN	18		0.9					
	ECZ EPN	10 38 05		1.3	1.15	359		4.2	
	WTZ EPN	10 38 07		-1.7	1.51	304			
	EP*	13		0.9					
	TRZ EP*	10 38 14		1.6	1.54	242		3.8	3.8
	ESN	26		-1.3					
	CNZ EPN	10 38 21		0.3	2.39	261			
	E	31.5							
	KRP EP*	10 38 31		1.2	2.56	290		3.1	
	MNG EPN	10 38 28		-0.8	2.97	232		3.2	3.3
	E	51							
	E	57							
	GBZ PN	10 38 36.8		-0.5	3.60	316		3.7	
	COB ESN	10 39 53		1.1	5.02	242			3.6

H M S									72/ 083
FEB 27	06 24 59.9	41.92S	171.72E	12 KM	SE 1.6		AVG MAG		3.4
	+- 1.1	0.08	0.08	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KAI EP*	06 25 13		0.9	0.65	200	3.4		
	S*	20.4		-0.6					
	GPZ EPN	06 25 33		1.5	1.90	159	3.0		
	MJZ EP*	06 25 39		-0.7	2.26	203		3.3	3.2
	ES*	26 11		1.5					
	WEL EP*	06 25 42		0.4	2.38	76	3.1	3.6	3.7

		ES*		26 13		0.1				
	MNG	EPN	06	25 50		1.9	3.12	67	3.8	3.4
		ESN		26 23		-1.3				
	OMZ	EPG	06	26 02		-2.7	3.20	190	3.7	
	KRP	EPN	06	26 12		-0.8	4.95	38	3.5	

	H M S								72/ 084
FEB 28	02 35 26.3	32.06S	179.40E	553 KM	SE	1.7	AVG MAG		4.9
	+- 1.5	0.12	0.26	21					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ P	02 36 57.8		-1.4	5.27	217		4.4	
	ONE EP	02 37 03		0.9	5.59	227	4.9		
	ECZ ES	02 38 19		-0.2	5.66	187			4.8
	WTZ P	02 37 07.1		-0.8	6.23	198			
	ES	38 28		-0.6					
	KRP EP	02 37 13		1.2	6.65	207			
	E	38 44							
	GNZ P	02 37 13.1		1.2	6.66	189			
	ES	38 37		1.1					
	TUA P	02 37 15.5		0.6	6.98	195			
	ES	38 38		-3.3					
	TRZ EP	02 37 22		-0.5	7.76	195			
	ES	38 58		2.8					
	CNZ P	02 37 22.7		-0.0	7.78	203			
	E	38 13							
	ES	57		1.5					
	MNG EP	02 37 34		-1.9	9.10	199			
	ES	39 18		-1.4					
	WEL EP?	02 37 45		0.8	9.93	201	5.5		
	E	38 22							
	E	39 42.5							

	H M S								72/ 085
FEB 28	06 15 42.8	35.99S	178.42E	253 KM	SE	1.4	AVG MAG		4.6
	+- 0.9	0.04	0.07	10					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ P	06 16 24.7		1.4	1.70	177		5.2	5.1
	E	49.5							
	WTZ IP	06 16 28.8	U	0.2	2.30	210		4.6	4.5
	ES	17 02		-2.1					
	GBZ IP	06 16 28.3	D	-1.2	2.39	264		4.6	3.9
	ES	17 07		1.2					
	GNZ IP	06 16 33.1	D	0.7	2.67	187		5.4	5.5
	ES	17 09		-2.0					
	TUA P	06 16 36.7	D	0.9	2.99	199		4.7	4.5
	ES	17 18		1.0					
	KRP P	06 16 37.4		1.5	3.01	229		4.3	3.8
	ES	17 18		0.7					
	AUC P	06 16 37.2	D	0.7	3.06	253			
	ONE P	06 16 38.4		-0.8	3.30	273	4.5		
	ES	17 22		-1.1					
	TRZ IP	06 16 45.0	U	0.4	3.77	199		4.7	5.0
	ES	17 33		0.3					
	CNZ EP	06 16 47		0.6	3.93	215		4.5	4.4
	ES	17 38		2.1					
	TNZ E	06 17 00			4.52	224		4.1	3.8
	E	18 09							
	CRZ P	06 16 58.8	DNE	0.2	4.95	287		4.6	
	MNG EP	06 17 00		-1.2	5.16	206		4.5	4.3
	ES	18 00		-2.5					
	WEL P	06 17 10.8		-0.9	6.01	207	5.3		
	ES	18 16.5		-4.7*					

	H M S								72/ 086
FEB 28	09 57 20.9	36.09S	178.35E	265 KM	SE	1.7	AVG MAG		4.6
	+- 1.2	0.06	0.09	14					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ P	09 58 03.0		1.1	1.60	174		4.9	5.1

		E			27							
	WTZ	P	09	58	06.2		-0.4	2.18	210		4.7	4.5
		E			35							
	GBZ	IP	09	58	05.7	D	-2.3	2.33	266		4.4	
	GNZ	IP	09	58	10.7	D	0.4	2.56	186		5.2	5.5
		E			42.5							
		ES			47		-1.8					
	TUA	EP	09	58	14		0.5	2.87	199		4.6	4.9
		ES			53		-1.5					
	KRP	P	09	58	14.9	D	1.1	2.90	230		4.1	3.5
		ES			55		0.0					
	AUC	EP	09	58	17.5		2.9	2.98	254			
	ONE	EP	09	58	16		-1.5	3.25	274	4.1		
		E			59 15							
	TRZ	P	09	58	22.8	U	0.7	3.66	199		4.6	5.0
		ES			59 11		1.3					
	CNZ	EP	09	58	25		1.2	3.82	215		4.3	4.0
		ES			59 16		3.2					
	CRZ	EP	09	58	36		-0.8	4.93	288		4.1	
	MNG	EP	09	58	38		-0.3	5.05	206		4.5	4.4
		ES			59 37		-1.8					
	WEL	EP	09	58	48.5		-0.1	5.89	207	4.9	4.6	4.5
		ES			59 55		-2.3					

	H	M	S									72/ 087
FEB 28	12	06	52.5	36.69S		179.93W	176 KM		SE 1.0	AVG MAG		4.7
		+-	0.7	0.03		0.05	7					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		P	12	07	23.3		-1.6	1.55	229		5.6	5.2
			ES			50		0.1					
	GNZ		P	12	07	35.4	D	-0.3	2.52	218		5.3	5.2
			ES		08	10		1.0					
	WTZ		IP	12	07	38.0	D	-0.5	2.74	241		4.9	
			E		08	01							
	TUA		EP	12	07	43		0.1	3.11	226		5.0	5.2
			E			44.0							
			ES		08	22		0.3					
	GBZ		IP	12	07	49.2	U	-1.0	3.69	276		4.6	4.1
			ES		08	31		-3.7*					
	KRP		EP	12	07	52		0.6	3.78	250		4.3	4.0
			ES		08	35		-1.8					
	TRZ		P	12	07	52.0		0.2	3.81	220		4.8	5.0
			E			53.9							
			ES		08	39		1.4					
	AUC		P	12	07	58.0	D	1.1	4.21	266			
	CNZ		IP	12	07	59.3	U	0.8	4.33	233		4.7	4.6
			ES		08	49.5		-0.0					
	ONE		EP	12	08	04		1.2	4.66	280	4.3		
			ES			57		-0.1					
	TNZ		E	12	08	14			5.11	239		4.4	4.0
			E			32							
			E		09	24							
	MNG		P	12	08	10.1		-0.9	5.29	221		4.7	4.6
			E			11.9							
			ES		09	13		1.2					
	WEL		EP	12	08	21		-1.2	6.15	220			
			ES		09	31		-1.0					
	CRZ		EP	12	08	26		0.6	6.39	288			

	H	M	S									72/ 088
FEB 28	17	15	55.1	38.17S		177.68E	33 KM		SE 1.4	AVG MAG		4.0
		+-	0.4	0.03		0.03	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		IPN	17	16	06.9	U	1.1	0.54	151		4.5	4.4
			ESN			14		0.5					
			ES*			18		3.6*					
	WTZ		IPN	17	16	06.9	D	0.6	0.58	289			
	TUA		PN	17	16	10.3		1.5	0.76	213		3.8	4.0

		E			24.5						
	ECZ.	PN	17	16	08.1	U	-1.7	0.83	55	4.9	4.7
		ES			21.5		0.9				
	TRZ	EPN	17	16	19.5		0.1	1.53	206	4.3	4.3
		ES*			43.5		0.1				
	KRP	IPN	17	16	21.2	DE	-0.7	1.71	278	3.7	3.4
		ESN			42.5		0.5				
	CNZ	PN	17	16	26.0	U	0.7	1.96	238	4.0	4.0
		E			34						
		E			41						
	GBZ	IPN	17	16	32.7	D	-1.7	2.63	317	4.1	3.5
		ESN		17	03		-1.2				
	AUC	PN	17	16	34.8		-0.0	2.65	299		
	TNZ	EPN	17	16	39		2.5	2.78	248	3.5	3.1
		ESN		17	10		2.1				
	MNG	EPN	17	16	37		-2.3	2.98	214	3.4	3.8
		E			59.5						
		ESN		17	11		-1.9				
	WEL	ESN	17	17	33		-0.8	3.84	215		4.4

	H	M	S									72/ 089
FEB 29	00	29	51.1	39.82S		174.55E		33 KM	SE	1.2	AVG MAG	4.2
	+-		0.4	0.02		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IPN.		00	30	07.2		-0.8	0.99	52		4.4	4.6
		ESN				19		-1.4					
	MNG	IPN		00	30	07.5	U	-1.5	1.07	139		4.5	4.6
		ESN				21		-1.4					
	WEL	PN		00	30	15.1		0.5	1.48	174		4.3	4.7
		P*				17.0		-0.8					
		ESN				34		1.7					
	TRZ	PN		00	30	19		0.3	1.77	82		4.1	4.4
		ESN				41.5		2.0					
	KRP	EPN		00	30	22.5		0.1	2.04	22		3.9	3.8
		I				23.0							
		ESN				46		-0.0					
		ES*				59		4.5*					
	TUA	EPN		00	30	25.5		0.2	2.26	64		4.3	4.4
		ESN				52		0.8					
	GPZ	ESN		00	31	36		-0.9	4.13	200	4.5		
	MJZ	EPN		00	31	06		1.0	5.16	215		3.3	3.3
		ESN			32	02		0.2					

	H	M	S									72/ 090
FEB 29	10	25	31.9	43.45S		172.09E		33 KM	SE	1.5	AVG MAG	4.4
	+-		0.3	0.03		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CHR	IPN		10	25	40.2	D	-0.7	0.40	102			
		ESN				47		-0.3					
	GPZ	IPN		10	25	41.2	S	-0.5	0.47	122			
		ESN				51		2.3					
	MJZ	IPN		10	25	51.9	USW	-1.0	1.30	245		4.4	4.7
		ESN			26	09		0.3					
	OMZ	EPN		10	25	59		-1.3	1.83	207		5.0	5.1
		EP*			26	04		-0.5					
		ES*				29		0.0					
	ROX	EP*		10	26	21		-0.8	2.84	223		4.1	4.4
		ES*			27	00		0.9					
	WEL	EPN		10	26	14		-1.4	2.93	43	4.1	4.4	3.9
		EP*				24		0.6					
		ESN				48		-0.5					
	MNG	EPN		10	26	24.5		-2.7	3.79	43		4.4	
		EP*				36		-2.1					
	MNW	EPN		10	26	32		2.6	3.95	232		4.2	4.1
		EP*				41		0.1					
		ESN			27	13		-0.4					
	CNZ	EPN		10	26	44.5		1.2	4.98	33		4.6	4.2
		EP*			27	00		1.5					

		E		34						
	TRZ	EP*	10	27	05.5	2.1	5.27	44	4.2	4.0
		ESN			46	0.8				
		ES*		28	16	4.0*				
	KRP	EPN	10	26	57	-1.5	6.11	27		
		ESN		28	08	2.6				
	GNZ	ESN	10	28	15	-1.4	6.57	45		

FELT LAKE COLERIDGE (100) MM V AND LYTTELTON (110) MM III

	H	M	S								72/ 091
MAR 01	14	34	49.2	45.28S	167.22E	12 KM	SE	1.9	AVG MAG		3.7
		+-	1.9	0.06	0.09	R					
				H M	S	DIR RES	DIST	AZ	W-A	W P	W S
	MNW	IP*		14 34	59.1	-1.0	0.57	150		4.4	4.2
		ES*		35	08	-0.1					
	ROX	EPG		14 35	22	2.5	1.50	98		3.7	3.7
		ESG			41.5	1.7					
	OMZ	EPG		14 35	40	-2.3	2.62	87		3.6	3.6
		ESG			36 16	-1.7					
	MJZ	EP*		14 35	36.5	0.7	2.66	62		3.3	3.0
		EPG			44	1.0					
		ES*			36 10	-0.7					

	H	M	S								72/ 092
MAR 02	01	56	40.6	40.66S	174.47E	33 KM	SE	1.0	AVG MAG		3.7
		+-	0.3	0.02	0.02	R					
				H M	S	DIR RES	DIST	AZ	W-A	W P	W S
	WEL	IPN		01 56	53.3	U 0.3	0.66	160		4.1	4.1
		ES*		57	04.5	1.2					
	MNG	IPN		01 56	53.1	U -1.3	0.77	87		4.1	4.2
		ESN		57	03.5	-1.0					
	TNZ	E		01 57	13		1.47	357		3.7	3.7
		ESN			22	0.2					
	CNZ	PN		01 57	07.9	1.0	1.68	30		3.9	4.0
		E			21						
		ESN			28	1.4					
	KRP	EPN		01 57	22	-1.1	2.85	17		3.5	3.6
		EP*			31.5	0.7					
		ESN			55	-0.3					
		ES*		58	08	-0.3					
	KAI	ESN		01 57	58	0.1	2.96	230	3.5		
	GPZ	EPN		01 57	30	0.5	3.32	204	3.7		
		ESN		58	03	-3.8*					
	MJZ	E		01 57	49		4.46	220		3.2	3.0
		ESN		58	33	-1.4					

	H	M	S								72/ 093
MAR 02	12	21	11.7	40.14S	173.87E	173 KM	SE	1.4	AVG MAG		3.8
		+-	1.2	0.05	0.07	9					
				H M	S	DIR RES	DIST	AZ	W-A	W P	W S
	TNZ	EP		12 21	36.5	-2.5	1.03	22		3.2	3.2
		ES			22 00	-0.1					
	MNG	IP		12 21	42.8	D 1.3	1.32	112		3.9	4.0
		ES			22 05	0.4					
	WEL	IP		12 21	41.7	U 0.1	1.33	150	3.5	4.0	4.0
		ES			22 04	-0.7					
	CNZ	IP		12 21	44.2	D -0.1	1.60	54		4.3	3.7
		ES			22 10.5	1.1					
	TRZ	EP		12 21	52	-0.5	2.34	76		3.6	3.7
		E			22 32						
	KRP	EP		12 21	58	2.7	2.57	31			
		E			22 09						
	TUA	EP		12 21	59	0.0	2.86	63		3.7	3.9
		ES			22 36	0.7					
	KAI	E		12 22	29.5		3.02	217	3.9		
	GNZ	EP		12 22	06.5	-1.0	3.55	66		4.7	4.3
		ES			49	-1.4					

	H	M	S									72/ 094
MAR 03	06	38	07.4	39.20S	175.13E	12 KM	SE	1.5	AVG MAG			3.7
	+-		0.7	0.02	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		IPG	06	38	14.4	U	0.8	0.28	90			
			ESG			16.5		-1.2					
	KRP		IPG	06	38	34.7	DSW	0.8	1.31	12		4.1	3.5
			ESG			52		0.4					
	TRZ		EPG	06	38	35		0.8	1.32	106		3.6	3.4
			ESG			55		3.0					
	MNG		IPG	06	38	36.8	U	0.3	1.43	171		4.3	3.7
			ESG			55		-0.9					
	TUA		EPG	06	38	38		-1.5	1.58	76		3.3	3.5
			ESG			59		-1.9					
	WEL		EPG	06	38	49		-1.1	2.11	189	3.4	3.9	3.6
			ESG		39	19		0.5					
	FELT OHAKUNE (49) MM IV												

	H	M	S									72/ 095
MAR 03	07	51	03.5	39.68S	174.33E	203 KM	SE	1.4	AVG MAG			3.8
	+-		1.4	0.06	0.07	9						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ		EP	07	51	31		-0.1	0.49	4			
			ES			53		0.7					
	CNZ		IP	07	51	35.1	U	1.0	1.06	63		3.5	4.1
			E			53.5							
			ES			57		-0.8					
			E		52	03							
	MNG		IP	07	51	37.2	U	1.3	1.29	137		4.1	4.0
			ES		52	00.5		-0.5					
	WEL		ES	07	52	05		-1.4	1.64	168	3.5		3.7
	TRZ		ES	07	52	14		2.6	1.93	87			4.0
	KRP		EP	07	51	41		-1.5	1.99	29		2.8	3.0
			E		52	18							
	TUA		EP	07	51	46.5		0.1	2.36	69		3.9	4.0
			ES		52	19		-0.4					
	GNZ		EP	07	51	55		0.6	3.05	71		4.5	4.2
			ES		52	32		-1.7					

	H	M	S									72/ 096
MAR 03	08	30	28.5	37.72S	177.13E	133 KM	SE	1.5	AVG MAG			4.1
	+-		0.8	0.04	0.04	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP	08	30	47.1		-0.3	0.29	203			
			ES			59		-2.9					
	TUA		EP	08	30	54		1.0	1.09	179		3.9	4.4
			E		31	08							
			ES			13.5		1.8					
	ECZ		IP	08	30	53.0	U	-0.3	1.12	89		4.9	4.4
			ES		31	13		0.7					
	GNZ		P	08	30	54.0		0.2	1.16	143		4.5	5.2
			E		31	07							
			ES			13		-0.0					
	KRP		IP	08	30	55.9	DE	0.9	1.28	260		3.9	3.1
			ES		31	17		1.8					
	TRZ		EP	08	31	02		0.7	1.85	187		3.9	4.6
			E			25							
			ES			31		4.6*					
	CNZ		EP	08	31	04		1.7	1.93	220		3.9	3.6
			E			09							
			E			33.5							
	GBZ		IP	08	31	01.1	D	-2.0	2.00	318		4.5	
	AUC		EP	08	31	04		0.1	2.06	294			
	ONE		EP	08	31	16		0.4	2.95	310	3.6		
	MNG		P	08	31	16.9		-1.4	3.17	203		3.9	3.9
			ES			55		-1.3					
	WEL		ES	08	32	15		-1.1	4.01	206	4.4		4.2

	H	M	S									72/ 097
MAR 03	12	04	45.0	45.02S	168.30E	33 KM	SE	1.9	AVG MAG			3.9
		+-	1.3	0.08	0.05	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ROX		PN	12	04	58.8		-1.1	0.85	123		3.7	3.9
			ES*		05	15		1.8					
	MNW		PN	12	05	02.2	D	1.6	0.90	212		3.9	4.2
			ESN			13		0.9					
			E			21							
	WPZ		EPN	12	05	11.5		0.1	1.69	167			3.6
			E			24							
			ESN			28.5		-2.7					
	OMZ		PN	12	05	12.1	D	-1.6	1.85	93		4.2	4.1
			ESN			37		1.7					
	GPZ		ESN	12	06	12		-0.6	3.38	69	3.9		

	H	M	S									72/ 098
MAR 03	19	36	04.5	38.18S	176.08E	175 KM	SE	1.0	AVG MAG			3.6
		+-	1.1	0.04	0.04	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		EP	19	36	28.5		-0.3	0.50	300			
			ES			48		0.5					
	WTZ		EP	19	36	29		-1.1	0.74	75		3.0	3.0
			ES			48.5		-1.3					
	TUA		EP	19	36	33		0.8	1.05	127		3.9	4.0
			ES			55		1.4					
	CNZ		EP	19	36	33		0.3	1.10	202		3.6	3.0
			E			37	03						
	TRZ		E	19	36	40			1.49	157		3.7	3.8
			ES			37	00	-0.6					
	GNZ		ES	19	37	03		0.5	1.59	108			4.1
	TNZ		EP	19	36	39		1.0	1.67	232		3.6	
	MNG		IP	19	36	46.9	U	-0.2	2.48	191		3.9	3.7
			ES			37	19	-0.9					

	H	M	S									72/ 099
MAR 04	07	09	24.3	45.02S	167.89E	33 KM	SE	1.1	AVG MAG			4.4
		+-	0.6	0.03	0.05	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW		IP	07	09	37.2	D	-1.1	0.78	194		4.7	4.5
			ES			48		-0.6					
	ROX		EP	07	09	43.5		0.7	1.11	115			
	WPZ		P	07	09	50.9	D	-1.0	1.77	158		4.4	4.5
			ES		10	14		1.3					
	MJZ		EP	07	09	55		-1.6	2.11	62		4.1	4.1
			ES		10	20		-0.9					
	OMZ		IP	07	09	57.1		0.1	2.14	92		4.7	4.6
			ES		10	22		0.3					
	KAI		EP	07	10	17		0.5	3.56	47	4.5		
			E		11	03							
	GPZ		E	07	10	53			3.66	70	4.1		
	MNG		EP	07	11	05		0.6	7.10	54			
			E			09							
			ES		12	21		-0.6					
	TNZ		EP	07	11	12		1.4	7.56	42			
			E		12	38							
	CNZ		EP	07	11	20		1.8	8.13	47			
			E		12	54							
	TRZ		ES	07	12	56		-0.9	8.58	54			
	KRP		EP	07	11	32		0.7	9.12	42			
			ES		13	09		-0.7					

	H	M	S									72/ 100
MAR 04	22	19	55.3	33.11S	178.93W	517 KM	SE	0.8	AVG MAG			4.4
		+-	1.1	0.25	0.43	18						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		P	22	21	32.0		-0.2	5.89	213		4.4	

	GNZ	EP	22 21 34.5		0.8	6.05	203					
		ES	22 51		-0.7							
	TUA	ES	22 23 00		0.2	6.51	208					
	TRZ	ES	22 23 14		0.3	7.28	207					
	MNG	EP	22 22 00		-0.6	8.73	209					
		ES	23 40.5		0.2							

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	H M S											
MAR 04	22 58 38.4	40.22S	174.18E		33 KM	SE 1.4		AVG MAG		3.6		
	+- 0.8	0.04	0.05		R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	TNZ EPN	22 58 56			0.0	1.04	8		3.4	3.6		
	ESN	59 10			1.0							
	MNG PN	22 58 55.3		U	-1.1	1.07	112		3.5	3.7		
	E	59 02										
	ESN	08			-1.7							
	WEL EPN	22 58 58.8			1.2	1.16	158	3.3	3.6	4.0		
	ESN	59 13			1.2							
	TRZ E	22 59 19				2.14	73		3.9	3.7		
	ES*	46			1.4							
	KRP PN	22 59 15.0			-1.3	2.52	25		3.6	3.6		
	ESN	44			-1.0							

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	H M S											
MAR 04	23 45 38.5	39.32S	175.10E		12 KM	SE 1.3		AVG MAG		4.1		
	+- 0.4	0.02	0.03		R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	TNZ IP*	23 45 49.2		U	-0.3	0.58	283		4.0	3.9		
	ES*	58			0.5							
	MNG IPN	23 46 02.8		U	0.2	1.33	167		4.3	4.2		
	ESN	21			0.7							
	TRZ EPG	23 46 06			0.0	1.35	100		4.4	4.2		
	E	13										
	ESN	20			-0.9							
	E	30										
	KRP PN	23 46 03.1		DSW	-0.9	1.44	14		4.0	4.1		
	EPG	09			1.3							
	ESN	21			-1.9							
	TUA EP*	23 46 10			1.7	1.68	73		4.2	3.8		
	E	50										
	WEL P*	23 46 14.5			1.0	1.98	187	3.8	4.1	4.4		
	ES*	38			-1.6							
	GNZ E	23 46 33				2.37	74			4.1		

FELT OHAKUNE (49) MM IV

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	H M S											
MAR 05	03 31 26.6	41.01S	174.17E		12 KM	SE 1.6		AVG MAG		4.1		
	+- 0.4	0.03	0.03		R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	WEL P*	03 31 36.7		D	-0.1	0.53	122	4.2	4.3	4.6		
	ES*	43.5			-0.8							
	MNG IP*	03 31 44.1		U	-1.9	1.07	69		4.6	4.5		
	E	54										
	TNZ EP*	03 31 59			0.1	1.82	5		4.1	3.9		
	ES*	32 23			-0.1							
	TRZ EP*	03 32 12			1.6	2.50	55		4.4	4.2		
	ES*	46			2.7							
	E	33 15										
	KAI EPN	03 32 09			1.7	2.56	233	3.8				
	ES*	45			-0.3							
	TUA P*	03 32 23.9			1.9	3.18	47		4.5			
	KRP EPN	03 32 17			0.4	3.25	19		4.0			
	EPG	30			-2.5							
	WTZ EP*	03 32 29			-2.4	3.72	37		3.8			
	GNZ EP*	03 32 32			-0.6	3.79	53		4.3	4.3		
	E	33 00										
	MJZ EP*	03 32 37			0.1	4.05	221		3.5	3.5		
	ESN	33 15			1.6							

	OMZ	ESN	03 33 28			-1.4	4.71	209				4.1
	H M S											72/ 104
MAR 05	09 47 20.9		38.69S	175.83E		175 KM	SE	1.1	AVG MAG			3.8
	+- 0.9		0.04	0.04		8						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	IP	09 47 46.8		D	-0.0	0.80	343		3.9		
	TUA	EP	09 47 49.5			0.9	1.04	97		4.0	4.1	
		ES	48 10			0.0						
	WTZ	IP	09 47 49.4		D	-0.1	1.15	53		3.8	3.2	
		ES	48 10			-1.6						
	TRZ	E	09 47 54				1.16	139		3.7	4.2	
		ES	48 13			1.3						
	TNZ	P	09 47 50.7			0.5	1.24	246		3.6	3.3	
		ES	48 13.3			0.6						
	GNZ	P	09 47 56.0			1.1	1.72	89		4.2	3.8	
		ES	48 20.5			-0.7						
	MNG	IP	09 47 57.7		U	0.3	1.95	188		4.3	3.9	
		ES	48 22			-3.5*						
	WEL	P	09 48 05.9			-0.6	2.72	197		4.1	3.6	
		ES	40			-1.7						
	H M S											72/ 105
MAR 05	23 30 33.2		41.19S	174.40E		33 KM	SE	2.2	AVG MAG			4.6
	+- 0.5		0.04	0.05		R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL	IPN	23 30 40.9		USE	-0.1	0.30	109	4.6			
		SN	47.3			0.6						
	MNG	IPN	23 30 48.1		D	-2.1	1.00	56				
	TNZ	PN	23 31 03.0			-0.9	2.00	360		4.6	4.7	
		ESN	28.5			1.5						
	TRZ	P*	23 31 16.0			-0.8	2.47	49		4.8	5.0	
		ES*	50			0.7						
	KAI	EP*	23 31 18			-1.0	2.60	238	4.7			
		E	30									
		ES*	51			-2.3						
	TUA	P*	23 31 25.0			-3.9	3.18	43		4.8	4.8	
		E	32 17									
	KRP	PN	23 31 20.4			-2.3	3.38	16		4.7	4.8	
		E	35									
		ESN	32 01			0.4						
		ES*	16			-0.5						
	GNZ	E	23 31 42				3.77	49		5.0	4.8	
		E	32 45									
	WTZ	EPN	23 31 30			1.8	3.77	33		4.4	4.1	
		EP*	37			-2.0						
		ESN	32 14			3.7						
	MJZ	EPN	23 31 34			2.3	4.03	225				
		EP*	41			-2.4						
		ESN	32 20			3.5						
	OMZ	PN	23 31 42.0			2.0	4.64	212		4.5	4.8	
		E	32 13									
		ESN	32			0.7						
	ECZ	EP*	23 31 52			-3.6	4.74	44		4.6	4.6	
		ES*	33 00.5			3.0						
	GBZ	EP*	23 32 02			1.4	5.03	10		4.3	4.1	
		E	33 19									
	ONE	E	23 32 00				5.40	360	4.8			
		ESN	50			0.3						

FELT SOUTHERN PARTS OF NORTH ISLAND AND MARLBOROUGH SOUNDS
MAXIMUM INTENSITY MM V

	H M S											72/ 106
MAR 06	09 13		SOUTHERN HAWKES BAY						AVG MAG			3.0
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	MNG	E	09 13 17.5									
		ES	09 13 28									
	KRP	E	09 14 14									

GNZ E 09 13 29
FELT PATOKA (52) AND TIKOKINO (59), MM IV

	H M S								72/ 107
MAR 06	10 36 37.8	39.25S	175.24E	72 KM	SE	2.0	AVG MAG		3.7
	+- 1.6	0.05	0.05	23					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	P	10 36 52.2		-0.8	0.67	275		3.7	3.4
	ES	37 05.5		1.0					
TRZ	EP	10 37 00		-0.4	1.26	104		3.8	3.8
	ES	19		1.8					
KRP	P	10 37 01.2		-0.3	1.34	10		3.9	3.7
	ES	19		-0.1					
MNG	IP	10 37 00.2	U	-1.7	1.38	172		4.3	3.9
	ES	17		-2.9					
WEL	EP	10 37 12		1.0	2.07	190	3.3	3.6	3.7
	ES	38		2.4					

FELT WAIOURU (50)

	H M S								72/ 108
MAR 06	11 24 44.0	40.44S	176.65E	12 KM	SE	1.3	AVG MAG		3.7
	+- 0.7	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ	P*	11 24 59.2	D	-1.2	0.89	8		3.9	4.3
	ES*	25 11		-1.6					
MNG	IP*	11 25 00.8	U	0.1	0.91	258		3.9	3.9
	ES*	14.5		1.3					
WEL	EPN	11 25 11		-1.4	1.66	239	3.2	3.8	3.8
	ESN	33		-0.4					
TUA	E	11 25 22			1.67	13		4.0	4.1
	E	50							
GNZ	EPG	11 25 28		1.9	2.08	31		4.1	3.9
	E	26 08							
TNZ	EPN	11 25 20		1.0	2.16	305		3.6	3.5
	ESG	55.5		-1.2					
WTZ	EPN	11 25 23		-0.2	2.47	6		3.4	3.3
	ESN	48.5		-4.0*					
KRP	EP*	11 25 31		0.4	2.66	341		3.5	3.2
	ES*	26 07		1.4					

	H M S								72/ 109
MAR 06	18 55 05.9	37.09S	176.83E	249 KM	SE	1.6	AVG MAG		3.9
	+- 2.0	0.09	0.12	14					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	EP	18 55 40		-0.4	0.90	172		3.4	3.2
	ES	56 06		-1.3					
KRP	EP	18 55 44		0.9	1.32	231		3.1	
ECZ	ES	18 56 15		1.0	1.49	114			4.0
GNZ	EP	18 55 47		0.1	1.81	149		4.2	4.3
	ES	56 17		-1.6					
TRZ	E	18 55 57.5			2.46	180		3.7	3.9
	ES	56 32		2.5					
MNG	EP	18 56 06		-0.4	3.68	196		4.2	3.8
	ES	52		-1.3					
WEL	ES	18 57 12		1.5	4.48	200			3.8
GPZ	ES	18 58 13		-1.0	7.33	205	4.8		

	H M S								72/ 110
MAR 06	19 24 05.7	41.24S	176.77E	33 KM	SE	1.4	AVG MAG		4.0
	+- 0.9	0.04	0.05	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IPN	19 24 23.7	U	-1.1	1.15	302		4.5	4.3
	EP*	27		0.1					
	E	33.5							
WEL	PN	19 24 30.3		0.7	1.51	268	3.5	4.2	4.4
	E	37.5							
	ESN	45.5		-2.1					
	E	59							

	TRZ	IPN	19	24	33.2	D	1.1	1.69	1	4.2	4.0
		E			45						
		ES*			58		-0.4				
	TNZ	EP*	19	24	56.5		2.5	2.75	318	3.9	3.6
		ES*		25	30.5		0.4				
	GNZ	EPN	19	24	47		0.1	2.77	21	4.1	4.3
		ESN		25	17		-1.2				
	WTZ	EPN	19	24	54		0.4	3.26	3	3.7	
		E		25	17						
		ESN			28		-2.2				
	KRP	E?	19	24	50			3.44	344	3.6	
		EP*		25	08		2.1				
		E			56						
	GPZ	ESN	19	25	46		-0.2	3.91	230	3.9	
	KAI	ESN	19	25	53		-0.2	4.20	250	4.0	

	H	M	S									72/ 111
MAR 07	09	13	55.5	39.89S		177.00E		12 KM	SE	1.6	AVG MAG	4.1
		+-	0.5	0.02		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ	IP*		09	14	02.2		-0.5	0.36	337			
	TUA	IP*		09	14	15.9	D	0.8	1.08	6		4.8	4.4
		E				24							
		ES*				29		-0.7					
		E				42							
	MNG	IP*		09	14	21.8	U	1.7	1.37	237		4.3	4.1
		PG				26.0		2.7					
		E				47							
	GNZ	P*		09	14	20.9		-0.9	1.47	33		4.6	4.7
		E				30.2							
		E				53							
	WTZ	PN		09	14	26.9		-0.1	1.90	360		4.2	
		EPG				34		0.1					
	TNZ	EP*		09	14	36		2.8	2.14	288		4.3	3.8
		EPG				40		1.1					
		ESG			15	08		0.2					
	WEL	EPG		09	14	39		-1.0	2.20	230	3.6	4.1	4.0
		ES*			15	05		1.7					
	KRP	PG		09	14	38.6		-2.8	2.27	329		3.9	3.4
		ES*			15	06		0.8					
	ECZ	EPN		09	14	36		0.6	2.50	29		4.1	4.0
		ESN			15	01		-4.3*					
	COB	EPN		09	14	49		0.7	3.47	248		3.9	4.0
		EPG			15	03		-2.6					
		ESG				50		-2.4					
	KAI	ESN		09	16	04		-0.7	4.97	236	4.2		
	GPZ	ESN		09	16	04		-1.5	5.01	219	4.4		
	CIZ	E		09	15	34			6.29	132			
		ESN			16	36		-0.2					

	H	M	S									72/ 112
MAR 08	01	24	36.4	33.03S		178.89W		282 KM	SE	1.3	AVG MAG	5.0
		+-	1.0	0.05		0.07		15				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		01	25	56.2		1.3	5.10	204		5.3	5.2
		ES			26	55		-1.5					
	GBZ	EP		01	26	02		0.8	5.63	234		4.5	
	WTZ	EP		01	26	05		-0.5	5.98	213		4.8	4.5
		ES			27	15		-0.4					
	GNZ	P		01	26	07.8		0.3	6.14	203			
		ES			27	18		-0.9					
	ONE	EP		01	26	09		0.6	6.21	242	4.9		
	TUA	P		01	26	13.3		0.1	6.60	208			
		ES			27	31		1.9					
	KRP	P		01	26	15		1.0	6.67	221			
	CRZ	P		01	26	21.0		0.9	7.16	256			
		ES			27	41.5		-0.1					
	TRZ	EP		01	26	21		-1.7	7.37	207			

		ES		27	46		-0.2				
		E		28	42						
	MNG	EP	01	26	39		-1.7	8.81	209		
		ES		28	20		1.6				
	WEL	ES	01	28	36		-1.5	9.67	210	5.6	
	COB	EP	01	26	59		-2.1	10.46	217		
		ES		28	56		0.7				
	CIZ	ES	01	29	10		1.3	11.06	171		

	H	M	S								72/ 113
MAR 10	06	37	50.9	36.41S		179.25W	33 KM	SE	1.9	AVG MAG	4.4
		+-	1.9	0.07		0.12	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	06	38	26		1.9	2.18	233		4.7	4.7
	ESN			49.5		0.3					
	E			54							
GNZ	PN	06	38	37.5		0.6	3.11	223		4.5	4.8
	E			55							
	SN		39	15		3.1					
WTZ	PN	06	38	40		-0.7	3.39	241		4.4	4.2
	SN		39	19		0.3					
TUA	E	06	38	47			3.73	229		4.5	4.7
	ESN		39	28		1.0					
GBZ	E(PN)	06	38	52		-0.5	4.26	271		3.8	
	E			58.5							
TRZ	E(PN)	06	38	54		-0.7	4.42	224		4.1	4.6
	SN		39	49		5.4*					
KRP	PN	06	38	54		-0.9	4.43	248			
	SN		39	44		0.0					
ONE	EP*	06	39	21.5		0.1	5.21	275			
TNZ	E	06	39	25			5.76	239		3.9	
	EP*			34		3.3					
MNG	E	06	39	24			5.89	223		3.9	4.2
	E		40	15							
	SN			20		0.7					
WEL	E	06	39	33			6.75	222	4.8		
	SN		40	37		-2.6					
CRZ	PN	06	39	27		-1.0	6.88	284			
COB	E	06	39	44			7.81	231			
	SN		41	03.5		-1.7					
MJZ	SN	06	42	15		-3.5	10.91	223			

	H	M	S								72/ 114
MAR 10	09	09	16.2	32.48S		177.70W	299 KM	SE	2.8	AVG MAG	5.2
		+-	3.3	0.18		0.33	31				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	09	10	48		1.4	6.04	210			
	E		11	01							
	ES		12	03		5.6					
WTZ	P	09	10	55		-3.2	7.00	217			
	S		12	15		-3.3					
GNZ	P	09	10	56		-3.1	7.07	208			
	S		12	18		-1.8					
	E			20							
TUA	ES	09	12	30		-1.0	7.57	212			
CRZ	EP	09	11	15.5		1.7	8.27	254			
TRZ	E(P)	09	11	17		2.4	8.33	211			
	S		12	49		1.3					
MNG	S	09	13	20		-0.2	9.79	212			
WEL	S	09	13	38		-1.3	10.65	212	5.4		
COB	S	09	13	57		-1.2	11.51	219			
GPZ	S	09	14	44		1.3	13.52	211	5.0		
	E			52							
MJZ	S	09	15	11		1.5	14.76	216			

	H	M	S										72/ 115
MAR 11	04	38	48.5	34.64S	179.41E	232 KM	SE	1.5	AVG MAG	4.9			
			+- 1.2	0.06	0.07	10							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	04	39	42		0.3	3.12	193		4.9	5.2
	ES		40	25		2.0					
	E			28							
GBZ	P	04	39	48		1.0	3.57	243		4.4	
WTZ	P	04	39	50		-0.4	3.87	210		5.0	4.5
	S		40	36.5		-2.0					
	E			41							
GNZ	EP	04	39	51		-2.8	4.15	195		5.0	5.1
	E			54							
	S		40	43.5		-1.0					
KRP	P	04	40	00		1.5	4.53	223			
	ES			58		5.1*					
TUA	EP	04	39	59		0.4	4.54	203		4.7	5.1
	S		40	54		0.9					
	E			57							
TRZ	P	04	40	08		-0.3	5.32	202		4.6	4.8
	S		41	11		0.5					
	E			17							
MNG	P	04	40	25		-1.2	6.73	206			
	E		41	37							
	ES			40		-2.6					
WEL	P	04	40	38		1.0	7.58	208	5.3		
	S		42	03		1.0					
COB	EP	04	40	46		-0.6	8.32	217			
	S		42	21		1.9					
CIZ	E	04	42	50			9.81	163			
	ES			54		0.9					
GPZ	S	04	43	08		0.0	10.45	208	5.2		
MJZ	ES	04	43	34		-0.6	11.61	214			

	H	M	S										72/ 116
MAR 11	15	41	50.0	39.79S	174.00E	230 KM	SE	1.9	AVG MAG	4.5			
			+- 0.7	0.07	0.08	9							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	15	42	26.0	D	0.6	1.34	64		4.6	4.7
	S			50.5		-2.3					
	E			52.5							
MNG	IP	15	42	28.9	U	3.0	1.41	126		4.6	4.8
	E			49							
	S			53		-0.7					
WEL	IP	15	42	29.0	U	1.5	1.61	159	4.6	4.3	5.1
	S			56.5		-0.0					
COB	IP	15	42	29.6		2.0	1.61	216			
	S			55.5		-1.2					
TRZ	P	15	42	35.1	D	2.1	2.19	85		4.7	4.6
	E		43	07							
	S			09		2.8					
KRP	P	15	42	33		-0.2	2.22	33			
	E		43	38							
TUA	P	15	42	39		1.4	2.64	69		4.7	4.3
	ES		43	15.5		0.9					
WTZ	P	15	42	40.5		-0.6	2.95	53		3.7	3.7
	S		43	18		-2.8					
	E			21							
GNZ	P	15	42	46		0.5	3.33	71		5.6	4.9
	S		43	27		-1.5					
KAI	ES	15	43	37		7.9*	3.36	215	4.3		
GBZ	P	15	42	51		0.5	3.75	19		3.9	
GPZ	P	15	42	55.5		1.7	4.03	194	4.5		
	IS		43	41.5		-1.8					
ECZ	P?	15	42	51.5		-3.5	4.13	61		5.0	
MJZ	P	15	43	07		1.9	4.95	211		3.5	3.9
	S		44	03		-0.6					

OMZ	E	15 44 16			5.75	202			4.4
	S	21		-0.6					
MSZ	P	15 43 27.5		1.0	6.64	221			
	E	44 39							
	S	42		0.0					
ROX	S	15 44 39		-3.0	6.65	210			
MNW	S	15 45 03		-1.1	7.60	216			

	H	M	S									72/ 117
MAR 12	01	17	20.2	38.18S	175.81E	203 KM	SE	1.6	AVG MAG			5.0
		+-	0.6	0.03	0.03	6						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP			01	17	47.8	UNW	0.5	0.33	320			
	S				18	08		-0.2					
WTZ	IP			01	17	48.7	U	-1.4	0.95	79		4.9	
	E				18	07							
CNZ	P			01	17	52.2	U	1.5	1.04	191		5.1	
	E				18	23							
TUA	IP			01	17	52.2	U	0.1	1.23	121		5.7	5.6
	S				18	15		-1.9					
TNZ	IP			01	17	57.7	U	3.3	1.50	228		4.8	4.1
	S				18	17		-3.9*					
AUC	IP			01	17	56.0	D	1.1	1.55	328			
	S				18	24		2.3					
TRZ	P			01	17	56.9	U	1.7	1.58	150		5.4	
	E				18	22							
GNZ	IP			01	17	57.2	U	-0.1	1.80	106		5.9	6.0
	E				18	19							
	S					24		-1.9					
GBZ	IP			01	17	57.9	D	-1.1	1.98	352		4.5	3.9
	S				18	27		-2.0					
	E					34							
ECZ	IP			01	18	00.9	U	-0.7	2.22	78			
	E					28							
MNG	IP			01	18	04.9	U	0.9	2.45	186		5.2	5.1
	S					38		0.1					
ONE	P			01	18	06.5		-0.2	2.66	334	4.1		
	S					42		-0.6					
WEL	P			01	18	13.3	U	0.4	3.20	194	5.1	4.6	5.2
	S					54		0.3					
COB	P?			01	18	20.5		0.9	3.75	218		4.6	4.9
	E					21.5							
	S				19	07		1.5					
CRZ	P			01	18	28.5		-0.6	4.51	325		4.5	
	E					39							
	E					50							
KAI	S			01	19	45		0.2	5.49	216	4.8		
GPZ	EP			01	18	47		-1.3	6.01	202	5.6		
	S				19	54		-2.9					
MJZ	EP			01	19	02		0.0	7.06	213			
	S				20	18.5		-3.0					
OMZ	ES			01	20	39		0.4	7.80	206			
	E					51							
CIZ	EP?			01	19	19		2.9	8.15	137			
	E					24							
	S				20	48		1.1					
	E					52							
MNW	E			01	19	41.5			9.73	216			
	ES				21	22		-1.5					

	H	M	S									72/ 118
MAR 12	01	37	22.0	37.85S	176.81E	12 KM	SE	2.3	AVG MAG			3.4
		+-	0.8	0.06	0.05	3						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IPG			01	37	25.7		-0.8	0.19	133			
TUA	PG			01	37	41		-1.2	0.99	164		3.8	3.6
	SG					53.5		-2.1					
KRP	PG			01	37	43		0.4	1.01	265			

		S*		53	-1.0					
	GNZ	PG	01	37 47	-0.2	1.24	130		4.2	3.6
		SG		38 07	3.1					
	TRZ	E?	01	37 43		1.70	180		3.8	
		PG		58	1.6					
	AUC	ESG	01	38 30	3.9	1.90	301			
	GBZ	PG	01	37 59.5	-2.0	1.95	326		2.7	2.5
		S*		38 20.5	-1.7					

FELT EDGECUMBE (27) MM IV

	H	M	S									72/ 119
MAR 12	20	39	51.0	35.66S	179.24E	33 KM	SE	3.2	AVG MAG			4.6
		+-	2.3	0.12	0.12	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	PN		20	40 26		2.9	2.10	195		4.7	4.8
		P*			29		0.6					
		SN			52		4.5					
		S*			41 01		4.8					
	WTZ	PN		20	40 34		-0.6	2.94	217		4.6	4.4
		SN			41 07.5		-0.3					
	GNZ	PN		20	40 37		-0.3	3.13	198		4.7	4.8
		P*			49		3.1					
		SN			41 11		-1.5					
	KRP	PN		20	40 46		0.5	3.73	232			
		E			51							
		SN			41 29		1.8					
	TRZ	PN		20	40 53		-0.7	4.33	206		4.9	4.5
		E			41 00							
		P*			04		-2.5					
		ESN			42		0.3					
	CNZ	EPN		20	40 59		1.8	4.59	219		4.8	
	TNZ	PN		20	41 11		5.2	5.23	226		4.1	
	MNG	E(PN)		20	41 12		-1.0	5.77	210		4.6	4.3
		E			16							
		P*			24		-7.0					
		S*			42 38		-8.1*					
	WEL	E(PN)		20	41 24		-0.6	6.62	211	4.9		
		SN			42 30		-6.8					
	COB	PN		20	41 35.5		-0.2	7.45	221			
		E			52							
		ESN			42 53.5		-3.0					
		E			43 05							
	CIZ	E		20	42 59			8.88	160			
		ESN			43 28		-2.9					
		E			30							
	GPZ	E		20	43 36			9.50	210	4.8		
		SN			47		1.6					

	H	M	S									72/ 120
MAR 12	21	46	45.8	43.29S	170.75E	12 KM	SE	1.2	AVG MAG			3.8
		+-	0.3	0.02	0.02	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ	IP*		21	46 59.0	US	-0.3	0.72	197		3.7	3.8
		S*			47 08		-1.2					
		E			16							
	KAI	P*		21	47 02		-0.3	0.90	32	3.7		
		S*			14		-0.6					
		ESG			16		-0.5					
	GPZ	EPN		21	47 10.5		-0.7	1.43	107	3.3		
		PG			15		0.2					
		SN			31		1.0					
		SG			35		0.9					
		E			38							
	OMZ	P*		21	47 16.5		-0.8	1.78	176		4.1	4.2
		E			24							
		S*			40		-0.9					
		E			51							
	ROX	PN		21	47 23.5		-0.8	2.41	205		4.0	3.8

		P*			29		0.8				
		S*			48 04		4.0*				
	MSZ	PN	21	47	25.5		0.4	2.47	235	4.0	4.0
		PG			33		-2.8				
		S*			48 01		-0.7				
	COB	PN	21	47	28		0.3	2.65	34		
		P*			33		0.8				
		SN			48 00		0.9				
		S*			08		1.0				
	MNW	PN	21	47	37		-0.1	3.35	221	4.3	3.6
		P*			46		1.8				
		SN			48 18		2.3				
		E			33						
		S*			28		-0.1				
		P*			47 46		1.8				
		E			48 23						
		S*			28		-0.1				
	MNG	E	21	47	57			4.42	54	3.8	3.3
		ES*			48 58		-2.3				

72/ 121

	H	M	S										
MAR 13	13	01	17.0	44.95S		166.62E		12 KM		SE 1.9		AVG MAG	3.7
	+-		1.8	0.06		0.09		R					
				H	M	S	DIR	RES		DIST	AZ	W-A	W P	W S
	MSZ		P*	13	01	34		-0.6		0.97	73		3.4	3.7
			E			43								
			S*			46		-1.7						
	MNW		P*	13	01	35.5		-1.2		1.09	140		4.0	3.8
			S*			54		2.7						
	ROX		P*	13	01	51		-1.0		1.98	106		4.0	3.9
			PG			56		-1.1						
			S*		02	18		-0.2						
			SG			22		-1.8						
	MJZ		PN	13	02	01		-1.6		2.92	72		3.3	3.1
			P*			10		2.0						
			S*			50		3.6						
	OHZ		EPN	13	02	04.5		0.3		3.05	94		3.7	
			P*			11		0.7						

72/ 122

	H	M	S										
MAR 14	07	26	02.3	40.68S		173.99E		33 KM		SE 1.8		AVG MAG	5.2
	+-		0.3	0.02		0.03		R					
				H	M	S	DIR	RES		DIST	AZ	W-A	W P	W S
	WEL		IP*	07	26	18.2	U	-0.4		0.84	136	5.1		
			S*			31		0.7						
	COB		IP*	07	26	22.5		1.0		1.03	247			
	MNG		PN	07	26	21.8	D	0.6		1.14	87			
	TNZ		PN	07	26	28.5		2.0		1.53	12			
	CNZ		PN	07	26	32.5		0.7		1.91	40			
			I			32.8								
	TRZ		PN	07	26	37.7		-1.5		2.45	63		5.5	5.6
			P*			47		1.4						
			E		27	02								
			SN			06		-1.2						
	KAI		PN	07	26	44		1.9		2.67	226			
			ESN		27	14		1.6						
	KRP		IPN	07	26	47.8	UNE	0.9		3.01	24			
			E		27	16								
			S*			39		4.4*						
	CHR		PN	07	26	48		1.0		3.02	199			
			P*			59		3.7						
			I		27	17								
			ES*			38		3.0						
	TUA		PN	07	26	46		-1.8		3.08	54		5.7	5.8
			P*			54		-2.3						
			E		27	09								
			ES*			39		2.3						
	GPZ		PN	07	26	48		-1.1		3.17	198			

		SN		27 22			-2.7				
	WTZ	PN	07	26 52.5	D		-1.9	3.56	42	5.0	4.9
		E		58							
		E		27 07.5							
		ESN		33			-1.3				
	AUC	PN	07	26 59.9	U		1.3	3.87	9		
	MJZ	PN	07	27 02.9			-0.3	4.21	217	4.8	4.8
		E		28							
		SN		49			-0.9				
	GBZ	PN	07	27 09			0.3	4.61	15	4.9	4.7
		I		17							
		P*		22			-0.5				
		E		28 32							
	ECZ	PN	07	27 06.0	D		-3.1	4.63	51	5.6	5.3
		P*		20			-2.9				
		ESN		28 01			0.7				
	ONE	EPN	07	27 14			1.2	4.91	4	5.6	
		SN		28 07			0.1				
	OMZ	PN	07	27 12.3			-0.8	4.93	206		
		E		28 03							
	ROX	PN	07	27 24.5			-1.3	5.88	214	4.8	4.8
		P*		41.5			-2.7				
		SN		28 27			-3.4				
		E		53							
	MSZ	PN	07	27 27			-0.3	5.99	226	5.3	5.0
		E		30							
		SN		28 32			-0.9				
	CRZ	PN	07	27 34			2.1	6.33	350		
		SN		28 41			-0.0				
	MNW	PN	07	27 40			0.4	6.89	220		
		E		48							
		E		28 53							
		SN		55			0.4				
	CIZ	EPN	07	27 53.5			2.8	7.73	118		
		E		29 11.5							
		SN		15.5			1.0				

FELT ABOUT COOK STRAIT MM V, AND IN SOUTHERN TARANAKI AND NELSON

72/ 123

	H	M	S										
MAR 14	14	42	16.5	44.33S		168.70E		33 KM	SE 1.3		AVG MAG		4.1
			+- 0.4	0.03		0.03		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ		P*	14	42	30		0.4	0.65	238			
			ES*			39		0.0					
	ROX		P*	14	42	39		-0.1	1.23	159		4.2	4.6
			E			40							
			S*			54.5		-1.3					
	MJZ		IPN	14	42	38.2	U	0.3	1.32	76		3.9	4.2
			SN			53		-0.9					
	MNW		P*	14	42	46.5		0.5	1.64	207		4.4	4.2
			E			43 11.5							
			I			14							
	OMZ		PN	14	42	45.5		1.7	1.75	116		4.5	
			SN			43 08		3.7*					
	WPZ		EP*	14	42	56		-1.9	2.34	177		4.0	4.1
			E			43 25							
			S*			29.5		0.8					
	KAI		EP*	14	43	05		1.4	2.67	49	3.7		
			S*			39		0.2					
			E			49							
	GPZ		P*	14	43	10		2.2	2.92	79	3.9		
			S*			46.5		0.4					
	COB		PN	14	43	19		-1.0	4.40	44		3.7	3.7
			ESN		44	07		-1.8					
	MNG		EPN	14	43	44		-0.9	6.24	56			

	H	M	S									72/ 124
MAR 14	18	49	53.1	39.90S	176.83E	33 KM	SE	1.0	AVG MAG			4.4
		+-	0.3	0.02	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		IP*	18	50	01.8		0.5	0.35	359			
	TUA		PN	18	50	12		0.3	1.12	13		4.7	4.9
			SN			25.5		-0.1					
	CNZ		IPN	18	50	12.8	U	-0.1	1.21	305		4.9	4.7
			I			13.8							
			ESN			29		1.2					
	MNG		P*	18	50	15.1		-0.9	1.25	235			
	WTZ		PN	18	50	21.9		-0.8	1.92	4		4.3	4.3
			E			34							
			SN			44		-0.9					
	TNZ		P*	18	50	28.5		-0.5	2.02	290		4.3	4.3
			E			34							
			S*			55		-0.8					
	WEL		PN	18	50	24		-1.0	2.09	228	4.2	4.4	4.7
			E			35							
			SN			51		1.8					
	KRP		PN	18	50	26.5		-0.2	2.21	333			
			EP*			34		1.7					
			E			44							
			SN			52		-0.1					
			S*		51	05		3.4*					
	ECZ		PN	18	50	32.5		0.8	2.58	32		4.3	
			P*			43		4.4*					
	COB		PN	18	50	42		-0.2	3.34	248		4.4	4.4
			P*			53		1.5					
			SN		51	20.5		0.9					
			E			44.5							
	GBZ		PN	18	50	48.5		-0.3	3.83	343		3.5	
			P*			59		-0.9					
	KAI		SN	18	51	55		-1.4	4.86	236	4.6		
	GPZ		SN	18	51	57		-0.8	4.91	218	4.9		
	HJZ		PN	18	51	23		1.3	6.26	227			
			SN		52	29		-1.2					
	CIZ		E	18	51	32.5			6.38	132			
			E		52	38.5							
			E			41.5							
	OMZ		PN	18	51	29		0.4	6.77	218			
			E		52	36							
			SN			42		-0.3					
	MNW		SN	18	53	35		0.3	8.96	226			

FELT CENTRAL HAWKES BAY. MAXIMUM INTENSITY MM V

	H	M	S									72/ 125
MAR 14	20	07	23.2	37.47S	175.74E	12 KM	SE	2.4	AVG MAG			3.8
		+-	0.6	0.03	0.05	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		IPG	20	07	32.1	SW	-1.2	0.49	199			
			ESG			39		-1.0					
	AUC		PG	20	07	44		0.9	0.98	308			
			S*			56		1.7					
			E		08	04							
	WTZ		PG	20	07	46		0.1	1.12	118		3.7	3.5
			E			51							
			SG		08	02		1.0					
	GBZ		P*	20	07	47		1.1	1.26	350		3.9	4.1
			IPG			49		0.2					
			SG		08	08		2.1					
	CNZ		IP*	20	07	54.3	D	0.3	1.74	185		4.4	4.2
			ES*		08	19		1.9					
			ESG			25		3.1					
	ONE		PG	20	08	01		-3.1	2.02	326	3.3		
			SG			29		-2.3					
	TNZ		EP*	20	07	59		0.1	2.02	211		3.7	

	MNG	EP*	20	08	17	-1.3	3.16	184	4.2	3.4
		PG			22	-5.1				
		SG		09	07	-2.6				
	WEL	EP*	20	08	32	1.1	3.89	191	4.0	
	COB	PN	20	08	29	1.6	4.30	212	3.9	3.5
		P*			34	-4.0				
		PG			44	-6.3*				
		SN		09	20	3.7				
		ES*			36	1.8				

FELT CAMBRIDGE (24) MM V AND MORRINSVILLE

H M S 72/ 126

MAR 15 14 58 03.4 32.76S 178.50W 33 KM SE 2.7 AVG MAG 5.4

+- 1.5 0.09 0.10 R

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	14	59	22		0.4	5.48	205		5.5	5.2
	E			25							
	EP*			39		0.5					
	ES*	15	00	41		-8.9*					
	ET		04	48							
GBZ	PN	14	59	31		1.8	6.05	234			
	P*			51		2.8					
	S*	15	01	09		2.1					
WTZ	PN	14	59	32.5		-1.2	6.38	214			
	E			34							
	SN	15	00	42		-1.4					
	I			46.5							
	ET		05	41							
GNZ	PN	14	59	34		-1.5	6.51	205			
	E			36.5							
	EP*			56		-0.2					
	E	15	00	47.5							
	SN			49		2.4					
ONE	PN	14	59	40		2.9	6.63	241			
TUA	PN	14	59	43		1.0	6.99	209			
	E			50							
	SN	15	01	00		2.0					
	ES*			40		4.8					
KRP	PN	14	59	45		1.7	7.09	222			
	E	15	01	16							
CRZ	PN	14	59	51		1.6	7.54	255			
TRZ	PN	14	59	52		-0.2	7.76	208			
	E	15	00	32							
	SN		01	19		2.6					
	ES*			56		-2.4					
CNZ	PN	14	59	56		0.1	8.03	215			
	SN	15	01	26		3.1					
	E			54							
MNG	PN	15	00	09.5		-2.0	9.20	210			
	E		01	42							
	SN			49.5		-1.4					
	E		02	32							
WEL	PN	15	00	21		-1.9	10.06	210	5.6		
	E			27							
	SN		02	06		-5.2					
	E			09							
	EL		04	00							
COB	EPN	15	00	30		-3.5	10.87	218			
	E		01	26							
	SN		02	29		-1.1					
CIZ	EPN	15	00	40		1.2	11.28	173			
	E		02	40							
	SN			43		3.4					
KAI	ESN	15	03	06		-4.3	12.59	216	5.3		
	E			21							
GPZ	ESN	15	03	11		-7.1*	12.93	210	5.3		
	E			22							
MJZ	PN	15	01	13		-2.4	14.14	214			

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            E                 25
             SN            03 40             -3.8

         H  M  S                                                                  72/ 127
MAR 16  01 38 51.4     37.59S  176.24E  334 KM    SE  1.5     AVG MAG    3.9
              +- 1.6    0.13     0.13     16
                          H  M  S    DIR  RES     DIST   AZ    W-A   W P   W S
        KRP   E?        01 39 34                  0.64  239
        WTZ   EP        01 39 33          -1.5    0.71  123           3.3   3.1
              E            40 05
        TUA   EP        01 39 38           0.3    1.41  150           4.2   4.1
              ES           40 13          -0.8
        CNZ    P        01 39 40           0.6    1.69  198           3.7   3.2
              E            40 26.5
        GNZ    P        01 39 40           0.2    1.76  127           4.2   4.4
               S           40 15.5        -2.2
        ECZ    S        01 40 20           1.3    1.84   94                 4.2
        TRZ   ES        01 40 23.5         2.7    2.01  167                 3.8
        MNG   IP        01 39 51.7   U     1.0    3.08  191           4.2   4.0
              E            40 33
               S              36          -1.0
        COB    P        01 40 04          -0.4    4.42  217                 3.3
              ES           41 02           0.3
        GPZ   ES        01 41 47.5        -0.5    6.68  203    4.4

         H  M  S                                                                  72/ 128
MAR 16  04 36 52.7     37.91S  176.13E  204 KM    SE  1.9     AVG MAG    4.1
              +- 1.5    0.07     0.07     10
                          H  M  S    DIR  RES     DIST   AZ    W-A   W P   W S
        KRP    P        04 37 20.5         0.3    0.47  269
               S              41          -0.5
        WTZ    P        04 37 19.5        -1.6    0.68   96           3.8   3.5
              E               30
               S              40          -3.1
        TUA    P        04 37 25.5         1.1    1.20  138           4.2   4.5
               S              49          -0.1
        CNZ    P        04 37 27           1.3    1.36  199           3.3   3.5
               S              54           2.6
              E               58
        GNZ    P        04 37 28.5         0.1    1.66  117           4.4   4.8
              E               53
               S              54.5        -1.5
        TRZ   ES        04 37 58           0.9    1.72  162                 4.3
              E            38 09
        ECZ    P        04 37 32           1.0    1.93   84           4.1   4.0
               S           38 02           1.4
        MNG   IP        04 37 41.1   D     1.0    2.75  190           4.4   4.0
               S           38 17.5         0.7
              E               15
        GPZ   ES        04 39 34          -3.4    6.35  204    4.3
              E               37

         H  M  S                                                                  72/ 129
MAR 16  22 43 16.8     37.65S  176.96E  179 KM    SE  1.9     AVG MAG    4.6
              +- 1.0    0.04     0.05      8
                          H  M  S    DIR  RES     DIST   AZ    W-A   W P   W S
        WTZ   IP        22 43 39.0        -2.0    0.33  176
               S              53          -5.6*
        KRP   IP        22 43 46.2  USW    0.4    1.16  256
               S           44 06          -2.3
        TUA   EP?       22 43 46           0.1    1.16  173           4.4   4.8
              E               48
              E            44 04
              ES              10           1.7
        ECZ    P        22 43 46.5   D    -0.1    1.26   92           5.5   4.8
              I               49.2
              E            44 03
               S              09          -0.8
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	GNZ	P	22	43	47		-0.0	1.30	140		4.7	4.8
		E			52							
		E			55							
		S		44	07		-3.4					
	GBZ	IP	22	43	52.2		-0.4	1.86	320		4.7	3.6
		E		44	18							
	TRZ	P	22	43	56.8		3.8	1.90	183		4.3	4.8
		E			59.5							
		S		44	21.5		0.5					
		E			34.5							
	CNZ	P	22	43	54.8	D	1.7	1.90	215		4.6	4.4
		S		44	23.5		2.5					
	AUC	IP	22	43	55	D	1.8	1.91	294			
	TNZ	P	22	44	03.5		3.0	2.54	232		4.3	
	ONE	E(P)	22	44	02		-1.7	2.81	311			
	MNG	P	22	44	08.5		0.3	3.18	201		4.8	4.5
		E			14.5							
		S			48		0.2					
	WEL	P	22	44	18.7		0.0	4.01	204	4.5	4.2	4.5
		E			29							
		S		45	06		-0.4					
		E			09							
	COB	P	22	44	28		-0.2	4.74	222		4.5	4.1
		S		45	23		-0.4					
	GPZ	E	22	46	09			6.87	207	5.0		
		S			12		-1.4					
	CIZ	E	22	45	25			7.98	144			
		E		46	43							
	MJZ	P	22	45	11.5		0.3	8.02	216			
		S		46	37		-3.5					

	H	M	S										72/ 130
MAR 17	10	33	55.7	39.56S		176.71E		12 KM		SE 1.8		AVG MAG	4.4
			+- 0.4	0.02		0.03		R					
				H	M	S	DIR	RES		DIST	AZ	W-A	W P	W S
	TRZ		IPG	10	34	01.5		3.1		0.08	87			
	TUA		IPG	10	34	11.1	D	-1.4		0.82	25		4.9	4.9
			SG			22.5		-1.2						
	CNZ		IPG	10	34	14.0	U	-1.5		0.97	291			
	WNZ		PG	10	34	16		-0.9		1.04	333		4.9	5.3
			S*			28.5		-0.1						
			SG			31.5		0.5						
	GNZ		P*	10	34	19.7	U	-0.5		1.37	49		4.9	4.8
			EPG			25		1.5						
			S*			39		0.5						
	MNG		IP*	10	34	21.4	U	0.3		1.42	221		4.6	4.3
			E			28								
			ESG			49		5.4*						
	WTZ		PN	10	34	22.5	D	-0.6		1.59	8		4.5	4.0
			ESN			43		-0.4						
	TNZ		P*	10	34	29		0.6		1.84	281		4.1	3.8
			PG			34		0.9						
			SG			58		0.0						
	KRP		PN	10	34	26.5	D	-0.4		1.87	330			
			P*			30		1.2						
			S*			54		0.4						
	WEL		PG	10	34	39		-2.8		2.28	220	3.8	4.6	4.3
			E			48								
			SG		35	14		1.5						
	ECZ		PN	10	34	34		0.6		2.35	38		4.6	4.1
			EPG			43		-0.3						
	COB		EPN	10	34	47		-0.7		3.40	242		4.2	4.1
			P*			53		-2.0						
			PG			59		-3.6*						
			S*		35	44		4.4						
	GBZ		PN	10	34	49		0.3		3.47	343		3.6	
	GPZ		SN	10	36	05.5		-3.3		5.14	215	4.4		
	MJZ		E	10	35	34.5				6.43	225			

		EP•			50		3.1					
		ESN		36	37		-2.8					
		E			49							

FELT CENTRAL HAWKES BAY. MAXIMUM INTENSITY MM V

	H	M	S								72/ 131
MAR 17	20	12	36.0	35.94S	179.47E	33 KM	SE	2.6	AVG MAG		4.2
	+-		2.0	0.09	0.15	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P•	20	13	11.5		1.6	1.90	203		4.5	4.3
	S•			35		-0.1					
	E			48							
WTZ	PN	20	13	17		-1.3	2.85	224		4.3	4.1
	ESN			54.5		4.0					
	S•		14	01		-2.5					
GNZ	PN	20	13	19.5		-0.0	2.93	203		4.5	4.3
	SN			55		2.4					
GBZ	PN	20	13	25		1.3	3.24	264		3.4	
TUA	PN	20	13	26		0.0	3.40	212		4.2	4.3
	ES•		14	17		-3.2					
KRP	PN	20	13	29		-1.3	3.72	237			
CNZ	E(PN)	20	13	44		3.0	4.50	223		4.3	4.1
	ES•		14	51		-2.2					
MNG	PN	20	13	54		-2.1	5.62	213		4.1	3.9
	E		14	06							
	ESN			56		-1.9					
	S•		15	16		-10.8•					
WEL	P•	20	14	23.5		-4.7	6.48	213	4.5		
COB	EPN	20	14	20		0.4	7.36	224			
	ESN		15	42		2.5					
GPZ	SN	20	16	31		4.0	9.35	212	4.7		

	H	M	S								72/ 132
MAR 17	23	52	07.9	38.61S	175.30E	232 KM	SE	1.5	AVG MAG		4.0
	+-		1.1	0.08	0.09	12					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	23	52	41.1	U	1.9	0.62	162		4.3	
TUA	E(P)	23	52	45		0.6	1.46	99		4.0	4.2
	S		53	11.5		-1.2					
WTZ	P	23	52	43.5		-1.0	1.46	65		3.4	3.4
	S		53	11		-1.7					
TRZ	ES	23	53	15		1.5	1.51	129			3.8
MNG	IP	23	52	51.0	U	1.7	2.02	176		4.8	3.7
	S		53	22		0.7					
GNZ	P	23	52	51.2		0.8	2.13	92		4.8	4.2
	S		53	21.5		-1.9					
WEL	P	23	52	57.7	U	1.2	2.71	189	3.7	3.7	3.9
	S		53	35		0.8					
ECZ	P	23	52	57.3	U	0.7	2.71	71		4.7	
COB	P	23	53	01.3	D	0.1	3.17	218		4.0	3.7
	S			43		-0.4					
GPZ	S	23	54	31		-2.2	5.47	201	4.4		
MJZ	S	23	54	55		-1.6	6.49	213			

	H	M	S								72/ 133
MAR 18	19	38	52.4	43.67S	169.81E	12 KM	SE	1.0	AVG MAG		3.1
	+-		0.3	0.02	0.02	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MJZ	IPG	19	39	04.5	D	0.4	0.57	124		2.8	2.8
	SG			12.5		0.6					
OHZ	EPG	19	39	24		-1.0	1.61	151			3.2
	E			34							
	ES•			42		-0.4					
KAI	P•	19	39	21		-0.4	1.63	46	2.9		
	S•			43		-0.0					
	SG			46		-1.5					
MSZ	P•	19	39	23.5		1.1	1.69	233		3.2	3.5
	E			30							

		ES*			46		1.1					
		SG			48		-1.6					
	GPZ	E	19	39	38			2.05	92	2.7		
		SG			40	02		0.3				
	MNW	S*	19	40	09		-4.1*	2.63	216			3.5
	COB	PN	19	39	44		0.2	3.36	41		3.3	3.1
		ESN			40	24	1.3					
		ES*			35		-0.1					
		E			39							

FELT MAHITAHI (104) MM IV

	H	M	S									72/ 134
MAR 20	07	52	19.2	40.45S		174.71E	110 KM	SE	1.3	AVG MAG		4.1
		+-	0.4	0.02		0.03	5					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	MNG	IP		07	52	38.3	U 1.2	0.61	106		4.4	4.5
		E				47.5						
		ES				49	-1.8					
	WEL	IP		07	52	40.7	U 1.7	0.83	177	3.8	4.6	4.5
		S				54	-0.1					
	TNZ	IP		07	52	45.0	U 0.9	1.29	348		4.4	4.4
		E				48						
		S			53	01	-1.8					
		E				02.3						
	CNZ	IP		07	52	46.1	U 0.6	1.41	28		4.5	4.7
		S			53	05	-0.3					
	COB	P		07	52	49.2	U 1.1	1.63	246			
		S			53	10	0.2					
	TRZ	P		07	52	52	1.2	1.85	62		3.4	4.2
		S			53	16	1.6					
		E				30						
	TUA							2.50	50		4.2	4.1
	KRP	P		07	53	02	1.1	2.60	15			
		S				32	-0.2					
	WTZ	P		07	53	06	-0.6	3.03	36		3.5	3.3
		ES				41	-1.4					
	GNZ	P		07	53	07.5	-0.5	3.13	56		4.1	4.5
		S				44	-0.8					
	KAI	S		07	53	48	0.7	3.23	229	4.0		
	GPZ	EP		07	53	16	1.8	3.59	205	4.5		
		E				53						
		S				55.5	-0.4					
	GBZ	P		07	53	24	0.6	4.27	8		3.6	
	MJZ	P		07	53	30	0.3	4.73	220		3.3	3.6
		S			54	22	-1.9					
	OMZ	P		07	53	39	0.4	5.40	210		4.1	3.9
		S			54	36	-4.0*					
	MSZ	S		07	55	06	-2.3	6.55	228			
	CIZ	E		07	55	24		7.36	121			
		S				27	-1.0					

FELT WAITARA (47)

	H	M	S									72/ 135
MAR 20	15	32	36.8	42.99S		171.50E	12 KM	SE	1.6	AVG MAG		3.2
		+-	0.4	0.02		0.03	R					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	KAI	E(PG)		15	32	46	-0.4	0.47	352	2.5		
		E				49						
		SG				52	-0.9					
	GPZ	PG		15	32	58	-1.0	1.10	131	2.6		
		ESG			33	13.5	-0.3					
	MJZ	P*		15	33	00	0.8	1.25	217		3.4	2.9
		PG				01.5	-0.6					
		E				18.5						
		SG				20	0.9					
	COB	E(PN)		15	33	12	0.9	2.11	26		3.5	3.3
		P*				15	1.1					
		SN				38	1.4					

	S*		43		1.2					
OMZ	EP*	15 33	13		-1.2	2.12	191		4.1	3.5
	IPG		17.3		-2.5					
	E		48							
	SG		52		3.6					
MSZ	PG	15 33	38		-1.3	3.09	236		3.0	3.1
	SG		34 17		-4.0*					
MNG	P*	15 33	41		-1.9	3.80	53		3.1	2.9
	S*		34 33		0.3					

FELT ARTHURS PASS (93) MM IV

72/ 136

	H	M	S										
MAR 20	17	50	18.2	39.42S	175.43E	12 KM	SE	1.5		AVG MAG		3.3	
			+- 0.4	0.02	0.03	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IPG		17	50	24.0	D	0.5	0.24	22			
		SG				27.5		0.4					
	TNZ	PG		17	50	35		-0.4	0.85	286		3.1	2.9
		S*				46.5		1.2					
		SG				48.5		1.5					
	TRZ	PG		17	50	42		1.8	1.08	97		3.3	3.3
		E				46							
		SG			51	01		6.1*					
	MNG	IPG		17	50	43.0	U	0.6	1.19	178		4.1	3.6
		SG				59.5		0.9					
	KRP	P*		17	50	44.5		-0.4	1.50	3			
		S*			51	03		-1.8					
	WEL	PG?		17	50	55		-2.2	1.93	195	2.9	3.4	3.5
		SG			51	23		-0.2					
	COB	EP*		17	51	02		-2.6	2.65	230		3.1	3.2
		ES*				40		0.6					
		E				45							

FELT OHAKUNE (49) MM IV

72/ 137

	H	M	S										
MAR 20	19	39	51.8	35.36S	179.43E	262 KM	SE	1.2		AVG MAG		4.6	
			+- 1.0	0.04	0.08	6							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		19	40	40		0.4	2.43	197		4.3	4.7
		E			41	12							
		ES				18		1.2					
	WTZ	P		19	40	47.4		-1.0	3.27	216		4.5	4.5
		S			41	30		-2.4					
	GBZ	P		19	40	47		-2.0	3.32	254		4.0	
		E				55							
	GNZ	P		19	40	50		-0.6	3.46	199		4.5	5.0
		S			41	35		-1.2					
	TUA	S		19	41	44.5		-0.4	3.89	207			4.8
	KRP	P		19	40	58		0.9	4.04	230			
		S			41	48		0.0					
	AUC	IP		19	40	59	D	1.7	4.05	247			
	ONE	P		19	40	58.5		0.1	4.15	263			
	TRZ	P		19	41	05		0.5	4.67	206		3.9	5.0
		ES			42	01.5		0.2					
	CNZ	EP		19	41	09		1.4	4.92	218		4.0	4.0
		E			42	02							
		ES				09		2.2					
		E				13							
	MNG	P		19	41	21		-1.1	6.10	210			
		E			42	27							
		S				34		1.3					
	WEL	E		19	42	50.5			6.96	210	5.3		
		S				52.5		0.7					
	COB	P		19	41	43		-0.0	7.77	221			
		S			43	10		-0.2					
	CIZ	E		19	43	47			9.12	161			
		ES				51		10.4*					
	KAI	S		19	43	49		-0.1	9.49	219	4.8		

	GPZ	S	19	43	56.5		-0.3	9.83	210	5.1			
		E			59								
	MJZ	S	19	44	23		-1.0	11.03	216				
	OMZ	ES	19	44	38		-0.4	11.67	211				

	H	M	S										72/ 138
MAR 22	00	08	14.7	38.81S		175.93E	136 KM		SE	1.4	AVG MAG		4.2
		+-	0.7	0.03		0.03	7						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	P		00	08	35.0	U	0.4	0.49	217			
		S				56		5.2*					
	KRP	P		00	08	38.5		0.8	0.93	341			
		E				50							
		S				54		-1.4					
	TUA	P		00	08	38.8		0.9	0.96	90		4.0	4.5
		E				47							
		E				54							
		ES				55		-0.7					
	TRZ	P		00	08	40.1	U	1.6	1.02	137		4.8	4.8
		S				57.3		0.7					
	WTZ	IP		00	08	39.8	D	-0.3	1.17	46		4.2	3.6
		S				57		-2.5					
	TNZ	P		00	08	43		1.9	1.26	252		3.5	3.4
		ES			09	03.3		2.3					
		E				05.5							
	GNZ	IP		00	08	46.0	D	0.8	1.65	85		4.8	4.8
		S			09	06.7		-1.8					
	MNG	IP		00	08	48.5	U	1.1	1.84	191		4.4	4.5
		E			09	05							
		S				12		-0.5					
	ECZ	P		00	08	54.0		0.3	2.34	63		5.1	3.8
		S			09	25		1.5					
	GBZ	P		00	08	57		-0.3	2.61	352		3.2	
	WEL	P		00	08	57.9		0.2	2.63	199	4.1	3.9	4.6
		E			09	27.5							
		S				29.5		-0.8					
	COB	P		00	09	06		-0.9	3.35	226		3.9	4.3
		S				46		-0.8					
	KAI	E		00	10	22			5.06	221	4.2		
		S				25		-2.6					
	GPZ	S		00	10	31.5		-5.1*	5.48	206	4.5		

	H	M	S										72/ 139
MAR 22	01	35	16.7	37.34S		176.65E	245 KM		SE	1.4	AVG MAG		4.3
		+-	1.0	0.05		0.05	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	P		01	35	49		-0.9	0.70	157		4.1	
	KRP	P		01	35	52		0.2	1.06	236			
		S			36	18.5		-0.6					
	GBZ	IP		01	35	53.7	D	-0.9	1.46	320		4.2	3.2
	TUA	P		01	35	55		-0.1	1.52	165		4.3	4.2
		E				58							
		S			36	23.5		-1.2					
	ECZ	P		01	35	55		-0.3	1.55	104		4.5	4.5
		E			36	24							
		S				26		0.9					
	GNZ	IP		01	35	56.9	U	0.4	1.70	141		5.4	5.1
		S			36	25		-2.2					
		E				26.5							
	CNZ	P		01	36	00.5		0.9	2.05	205		4.2	
	TRZ	P		01	36	02		0.8	2.22	177		4.7	4.4
		S				37.5		1.9					
	TNZ	P		01	36	07.5		2.7	2.57	223		3.9	
	MNG	IP		01	36	13.9	U	0.0	3.40	195		4.6	4.3
		E				58							
		S			37	00		1.8					
	WEL	S		01	37	15		-0.0	4.21	200	4.1		4.2
	COB	P		01	36	29.5		-1.2	4.82	218		3.5	3.9

		S		37 29		0.5					
		E		30.5							
	KAI	S	01	38 07		-0.3	6.56	216	4.3		
		E		09							
	GPZ	S	01	38 16		-2.3	7.05	204	4.7		

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	H M S										
MAR 22	05 32 58.6	41.72S	175.19E		12 KM	SE 1.1			AVG MAG		3.7
	+- 1.0	0.05	0.03		R						
		H	M S	DIR	RES	DIST	AZ	W-A	W P		W S
	MNG IP*	05	33 20.0	D	1.2	1.12	11		3.7		4.1
	S*		33		-0.9						
	COB PN	05	33 32.0	U	1.2	1.95	288		3.7		3.9
	SN		55		0.4						
	S*		58		-0.9						
	TRZ ESG	05	34 23		0.3	2.49	30				3.3
	CNZ EP*	05	33 43		0.1	2.53	6		3.7		3.8
	EPG		49		-0.8						
	SN		34 08		-1.1						
	TNZ EPG	05	33 55		3.8*	2.60	346				3.1
	ES*		34 19		0.6						
	KRP EPG	05	34 14		-1.4	3.80	4				
	ES*		55.5		1.2						
	FELT WELLINGTON (68) MM IV										

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	H M S										
MAR 23	00 01 06.1	38.25S	179.41E		12 KM	SE 1.6			AVG MAG		4.3
	+- 1.1	0.04	0.06		R						
		H	M S	DIR	RES	DIST	AZ	W-A	W P		W S
	ECZ IP*	00	01 22.5	U	0.2	0.88	309				4.9
	ES*		31		-3.3						
	TUA EP*	00	01 38.5		-0.5	1.86	252		4.1		4.5
	EPG		47		3.2						
	SN		59		-1.0						
	ES*		02 02		-1.7						
	ESG		09		0.1						
	WTZ PN	00	01 37.6	U	-0.5	1.93	277		4.4		4.2
	P*		40		-0.2						
	PG		46		0.8						
	ES*		02 09		3.2						
	TRZ P*	00	01 47.4		-1.0	2.41	236		4.6		4.4
	SN		02 15		1.9						
	KRP PN	00	01 53.5		-0.2	3.07	275				
	PG		02 09		0.7						
	E		18								
	CNZ PN	00	01 55.5		0.6	3.17	251		4.2		4.1
	P*		02 02		0.6						
	ESN		32.5		0.8						
	MNG PN	00	02 03.5		-0.7	3.86	231		4.0		4.0
	SN		47.5		-0.8						
	WEL SN	00	03 08		-0.5	4.69	228	4.4			4.2
	COB PN	00	02 31.5		0.1	5.88	239		3.6		4.0
	SN		03 37		-0.1						
	KAI SN	00	04 12		-2.5	7.45	233	4.4			
	GPZ SN	00	04 11		-3.9*	7.47	221	4.7			
	MJZ EPN	00	03 13.5		2.5	8.85	227				
	SN		04 46		-1.8						

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	H M S										
MAR 23	00 10 46.8	39.91S	175.21E		12 KM	SE 1.2			AVG MAG		3.9
	+- 0.4	0.02	0.02		R						
		H	M S	DIR	RES	DIST	AZ	W-A	W P		W S
	MNG IPG	00	11 01.2	U	-0.6	0.74	164		4.3		4.2
	SG		12.5		0.7						
	CNZ IPG	00	11 01.0	U	-1.3	0.76	20		4.3		4.3
	SG		13		0.4						
	TNZ PG	00	11 08		1.5	0.97	318		3.3		3.6
	SG		26		5.4*						

	TRZ	PG	00	11	13		-0.0	1.29	74		4.3	4.1
		E			20.5							
		SG			31		0.5					
	WEL	P*	00	11	11		-1.0	1.41	194	3.3	3.9	4.0
		S*			30		-0.9					
		SG			37		2.4					
	COB	P*	00	11	24.3	U	-1.1	2.22	237		3.6	3.7
		S*			56		0.7					
	GPZ	SN	00	12	37		-1.3	4.24	206	3.7		
	MJZ	SN	00	13	06		-0.1	5.39	219			

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	H	M	S									
MAR 23	15	47	45.9	40.74S	173.93E	120 KM	SE	1.1	AVG MAG			3.9
		+-	0.7	0.03	0.03	6						
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL	P		15 48 08.0	U	1.3	0.83	132	3.4	3.9	4.1	
		S		23		0.5						
	COB	IP		15 48 08.2	D	0.1	0.99	249		4.3		
		S		23		-2.1						
	MNG	IP		15 48 10.7	U	0.5	1.17	85		4.3	4.2	
		S		28		-0.6						
	CNZ	P		15 48 19		-0.4	1.97	39		4.3	4.2	
		E		31								
		S		45.5		0.8						
		E		49 09								
	TRZ	S		15 48 57		-0.0	2.50	63			3.7	
	KAI	S		15 49 00.5		0.5	2.61	226	3.6			
	GPZ	S		15 49 12		0.4	3.11	198	3.6			
	MJZ	E		15 48 53			4.15	217			3.0	
		S		49 37		0.5						
	CIZ	S		15 51 02		-1.4	7.73	118				

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	H	M	S									
MAR 23	23	09	58.7	45.17S	166.41E	33 KM	SE	1.6	AVG MAG			5.8
		+-	0.9	0.04	0.03	R						
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW	IPN		23 10 14.5	D	-1.6	1.04	126				
	MSZ	PN		23 10 16		-2.1	1.18	65				
		I		16.7								
	ROX	IPN		23 10 30.5	U	0.1	2.07	99				
		SN		55		0.7						
		S*		57		-6.0*						
	WPZ	PN		23 10 33		0.1	2.26	132		5.6	5.9	
		SN		11 00		1.2						
		E		02.5								
	MJZ	PN		23 10 44.0	D	-0.9	3.13	69				
		SN		11 19		-1.1						
		S*		32		-2.6						
	OMZ	IPN		23 10 45.1	U	-0.6	3.19	90				
	KAI	EPN		23 11 04.5		1.2	4.48	56	5.9			
		ES*		12 15		-0.1						
	GPZ	PN		23 11 06		-0.3	4.70	74	6.2			
		EP*		22		1.6						
		ES*		12 24		2.2						
	COB	PN		23 11 24.5		-1.6	6.17	51				
		SN		12 31.5		-2.1						
	WEL	SN		23 13 01		1.9	7.23	60	5.7			
		EL		14 00								
	MNG	PN		23 11 50.5		-1.0	8.06	59				
	TNZ	PN		23 11 56		-0.2	8.41	47				
	CNZ	PN		23 12 06		1.6	9.03	52				
		EP*		29		-5.5*						
		ESN		13 45		3.0						
	KRP	PN		23 12 17		0.3	9.96	47				
		SN		14 05		1.0						
	GNZ	PN		23 12 28		-0.2	10.83	57				
		P*		13 05		-0.3						
		SN		14 21		-3.5						

	ONE	SN	23	14	34	1.7	11.16	36	5.6	
	CRZ	PN	23	12	42.5	2.3	11.76	26		
		SN		14	45	-1.1				
	CIZ	SN	23	14	57	0.5	12.21	90		
		E		15	02					

FELT WIDELY IN SOUTHLAND, MAXIMUM INTENSITY MM V

72/ 145

	H	M	S									
MAR 24	06	08	41.7	38.93S	175.60E	12 KM	SE	1.4	AVG MAG		3.5	
		+-	0.5	0.03	0.05	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP*	06	08	47.0		-0.4	0.27	189			
TNZ	E	06	09	05			0.98	255			3.2
	E			19							
KRP	P*	06	08	59.7		-0.4	1.01	357		3.8	3.8
	S*		09	14		0.3					
TRZ	EP*	06	09	02.8		0.6	1.13	123		3.5	
TUA	EP*	06	09	03		-0.6	1.22	85		3.6	
WTZ	EP*	06	09	08		0.5	1.44	49		2.9	
MNG	EPN	06	09	08		-2.4	1.68	183		3.6	
	EP*			13.5		1.9					
COB	EP*	06	09	36		0.5	3.08	225		3.5	

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	H	M	S									
MAR 24	06	10	49.8	40.20S	175.22E	12 KM	SE	1.1	AVG MAG		4.0	
		+-	0.3	0.02	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	06	10	59.0		0.1	0.46	155			
	IS*		11	04		-1.5					
CNZ	P*	06	11	10.0		1.5	1.03	14		4.4	
	S*			22.2		-0.2					
WEL	P*	06	11	09.5		-0.9	1.14	197	3.5	4.3	4.2
	S*			26.5		0.9					
TNZ	EP*	06	11	10		-1.4	1.20	327			3.7
	E			31							
TRZ	P*	06	11	15.8		1.1	1.39	63		3.9	3.9
	ES*			30		-3.3*					
TUA	EPN	06	11	23		-0.3	2.04	48		4.0	
COB	PN	06	11	25.0		1.1	2.09	244		4.0	4.1
	IP*			27.8		1.1					
	S*			53.4		-0.9					
KRP	P*	06	11	30.5		0.5	2.28	6		4.2	
	S*			59.0		-1.1					
GPZ							3.99	208	4.1		

FELT TOKAANU (40) MM IV

72/ 147

	H	M	S									
MAR 24	06	30	50.8	45.18S	166.87E	12 KM	SE	1.8	AVG MAG		3.8	
		+-	1.8	0.04	0.08	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IPG	06	31	07.5	D	0.6	0.80	139		4.0	4.1
	SG			19.5		1.7					
MSZ	PG	06	31	09.0		-0.1	0.90	56		3.4	3.8
	SG			23.3		2.4					
ROX	EPG	06	31	24		-2.3	1.75	101		3.6	3.7
	SG			49		-0.9					
WPZ	P*	06	31	27		0.6	2.02	138		4.1	4.0
	S*			53		-0.2					
MJZ	EP*	06	31	38		-2.3	2.83	66		3.2	
	EPG			51		2.9					
	S*		32	18		0.5					
	SG			25		-1.3					
OMZ	EP*	06	31	39.3		-1.6	2.86	89		4.0	

	H M S								72/ 148
MAR 24	07 09 23.4	38.86S	175.69E	12 KM	SE 2.0	AVG MAG			3.7
	+- 0.6	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P*	07 09 27.5		-3.0	0.35	198			
KRP	P*	07 09 40.0		-0.7	0.95	353			
	S*	54.0		0.5					
TNZ	P*	07 09 42.0		-0.7	1.07	252		3.9	
	S*	59.0		1.9					
TRZ	P*	07 09 43.0		-0.6	1.12	128		4.1	3.8
	ES*	10 01		2.3					
TUA	P*	07 09 43.0		-1.1	1.15	88		3.9	
WTZ	EP*	07 09 47		-0.6	1.35	50		3.0	
MNG	P*	07 09 53.0		-1.6	1.76	185		4.1	3.5
	ES*	10 16		-1.9					
GNZ	EP*	07 09 58		2.0	1.84	84		4.1	
	E	10 03							
WEL	EP*	07 10 06		-1.6	2.52	196	3.5	3.8	3.6
	S*	44		3.2					
COB	EPN	07 10 14		1.7	3.17	225		3.7	

	H M S								72/ 149
MAR 24	08 56 19.2	45.19S	166.98E	12 KM	SE 0.8	AVG MAG			4.3
	+- 0.7	0.02	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	PG	08 56 34.5	D	0.2	0.74	143			
	ESG	44		-0.4					
MSZ	PG	08 56 36.0		-0.4	0.85	52			
ROX	PG	08 56 52.0		-1.2	1.68	101		4.5	4.6
	SG	57 16		0.2					
WPZ	EP*	08 56 53		-0.9	1.97	139		4.2	4.6
	S*	57 21.0		1.1					
MJZ	EP*	08 57 05.0		-2.6*	2.77	65		4.0	
	EPG	15.0		-0.2					
	S*	45		1.0					
	ISG	52		-0.5					
OMZ	PN	08 57 03.5		0.5	2.79	89		4.6	4.3
	ESN	36		0.1					
KAI					4.17	52	4.2		
COB	EPN	08 57 46		1.6	5.88	46		4.2	4.0
	EP*	58 00		-0.9					
	ESN	50		-0.0					
MNG	E	08 58 17			7.74	57			

FELT PUYSEGUR POINT (46) MM IV

	H M S								72/ 150
MAR 24	08 58 13.6	45.21S	166.91E	12 KM	SE 1.7	AVG MAG			4.2
	+- 2.0	0.03	0.09	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	PG	08 58 30.0	D	0.9	0.76	139		4.8	
	SG	42.0		2.6					
MSZ	PG	08 58 31.2		-0.8	0.90	53		4.0	
	SG	45.5		1.3					
ROX	PG	08 58 47.5		-1.0	1.72	100		4.4	4.2
	SG	59 12		0.2					
WPZ	SG	08 59 18.5		-2.1	1.98	138			4.4
MJZ	E	08 59 07			2.82	66		4.0	
	S*	41		0.9					
	SG	47.2		-1.6					
OMZ	EP*	08 59 01.5		-1.8	2.84	89		4.5	
KAI					4.22	52	4.0		
COB	ESN	09 00 47		1.3	5.93	48		4.1	

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	H	M	S											
MAR 24	11	31	34.2	41.15S	172.60E	12 KM	SE	0.9	AVG MAG			3.8		
		+-	0.5	0.04	0.03	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	COB		IP*	11	31	35.8		-1.4	0.11	59				
	WEL		P*	11	32	02.8		-0.5	1.64	96	3.4	4.3	3.8	
			ES*			25		-0.1						
	KAI		EP*	11	32	04		0.7	1.64	213	3.6			
			S*			25		-0.2						
	MNG		P*	11	32	13.0		-0.7	2.24	77		4.1	3.8	
			S*			44		0.7						
	TNZ		E	11	32	19			2.38	35		3.7		
	CNZ		EP*	11	32	23		-3.2*	2.98	50		3.8	4.0	
			S*		33	06.5		1.2						
	HJZ		EPN	11	32	24		-0.1	3.25	208		3.1		
			ESN		33	02		0.3						
	TRZ		E	11	32	44			3.59	65		4.0		

FELT NELSON (76) MM V

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	H	M	S											
MAR 24	16	43	23.0	33.46S	179.10W	346 KM	SE	1.6	AVG MAG			5.2		
		+-	1.3	0.08	0.10	20								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ		EP	16	44	39.0		0.0	4.64	204		5.8	5.3	
			I			41.7								
			ES		45	40		1.3						
	GBZ		P	16	44	45.0		-0.5	5.24	237		3.9		
	WTZ		P	16	44	47.4		-1.4	5.52	214		4.8		
	GNZ		EP	16	44	49.5		-1.0	5.67	203		5.6		
			S		45	56		-3.3						
	TUA		P	16	44	55.5		-0.4	6.14	209				
			S		46	05		-3.8*						
	KRP		P	16	44	59.0		2.0	6.23	223				
			ES		46	13		2.2						
	CRZ		P	16	45	06.0		1.2	6.90	260				
			ES		46	23		-1.7						
	TRZ		P	16	45	05		0.1	6.91	207				
			ES		46	27		2.0						
	CNZ		EP	16	45	09		1.0	7.17	215				
	MNG		EP	16	45	22		-0.0	8.35	210				
			S		46	55		-0.9						
	WEL		EP	16	45	32		-0.2	9.21	210	5.6			
			S		47	14		-0.3						

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	H	M	S											
MAR 24	19	39	07.6	37.54S	179.14E	33 KM	SE	1.1	AVG MAG			4.2		
		+-	1.5	0.05	0.11	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ		P	19	39	18.2	D	0.5	0.50	252				
	GNZ		EP	19	39	30.8		0.6	1.41	219		4.4	4.5	
			I			32.7								
			S			53		5.8*						
	WTZ		IP	19	39	35.5	U	0.4	1.76	255		4.7		
	TUA		EP	19	39	39.5		1.0	2.02	231		4.3	4.5	
			E		40	12								
	TRZ		P	19	39	48.0		-0.0	2.71	222		4.3		
			E		40	08								
	KRP		EP	19	39	50		-0.5	2.88	261		3.7		
			I			53.0								
	GBZ		EP	19	39	54.5		-0.6	3.22	293		4.1		
			I			55.8								
	CNZ		EP	19	39	56.5		0.7	3.27	239		4.1		
			I		40	04								
	TNZ		E	19	40	17			4.09	245				3.7
	MNG		P	19	40	06.3		-2.0	4.19	222		3.7		4.0
			S			56		1.2						
	WEL		S	19	41	14		-1.5	5.04	221	4.7	4.4		

	COB	E	19	40	59			6.10	233		
		E		41	42						

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	H	M	S										
MAR 25	09	22	01.5	40.28S		173.40E		180 KM	SE	1.3	AVG MAG		4.2
		+-	1.0	0.04		0.05		B					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB		P	09	22	30.5		1.6	0.95	212		4.2	4.4
		ES				51		0.7					
	TNZ		P	09	22	33		0.9	1.33	35		4.1	3.7
		ES				55		-0.8					
	WEL		P	09	22	34.5		1.3	1.44	135	4.0	3.7	4.6
		S				57.0		-0.7					
	MNG		IP	09	22	36.7	D	1.7	1.62	103		4.5	4.6
		S			23	00		-0.8					
	CNZ		IP	09	22	38.8	D	0.2	1.97	58		4.8	4.5
		ES			23	07		-0.3					
	KAI		S	09	23	20		-2.3	2.70	213	3.9		
	TRZ		S	09	23	23.5		0.6	2.73	76			
	KRP		EP	09	22	49		-0.4	2.88	36		3.4	3.7
		S			23	26		-0.2					
	GNZ		P	09	23	01.0		-1.4	3.93	67		4.8	4.6
		ES				42.0		-7.5*					
	MJZ		E	09	23	55			4.30	210			3.2

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	H	M	S										
MAR 28	13	58	21.9	30.70S		179.80E		337 KM	SE	ND			
			R	R		R		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	RAO		IP	13	59	16.6		0.8*	2.45	54			
	GBZ		P	14	00	04.5		4.8*	6.58	212			
	ONE		IP	14	00	09.1	E	5.7*	6.81	221			
		S			01	34		12.6*					
	ECZ		P	14	00	03.2		-2.1*	7.05	188			
		S			01	28		1.4*					
	CRZ		IP	14	00	13.0	U	7.5*	7.07	236			
		S			01	44.3		17.4*					
	KRP		P	14	00	21.0		4.1*	8.02	205			
		S			01	55		7.6*					
	GNZ		P	14	00	14.0		-3.3*	8.06	190			
		S			01	44.0		-4.2*					
	TUA		P	14	00	17.5		-3.5*	8.38	194			
		E(S)			01	50		-5.1*					
	CNZ		P	14	00	29		-1.7*	9.17	201			
		I				37							
	TNZ		P	14	00	37		1.6*	9.56	206			
		S			02	32		11.1*					
	MNG		P	14	00	41.1		-5.6*	10.50	198			
		S			02	34		-7.3*					
	WEL		P	14	00	51		-5.7*	11.32	200			
		S			02	56		-3.1*					
	COB		P	14	00	59.3		-3.6*	11.84	207			
		S			03	07		-3.4*					
	KAI		P	14	01	22		-1.8*	13.58	207			
		S			03	43		-5.5*					
	CHR		P	14	01	26		-2.9*	14.02	202			
		S			03	54		-3.9*					
	MJZ		P	14	01	39.5		-2.0*	15.18	207			
		S			04	18		-3.6*					
	OMZ		P	14	01	50.2		0.5*	15.95	203			
		S			04	34		-2.7*					
	MSZ		P	14	01	59		0.4*	16.79	211			
		S			04	56		3.2*					
		P			02	03		4.4*					
		S			04	58		5.2*					
	MNW		P	14	02	09		0.1*	17.81	209			
		S			05	17		5.0*					

FELT DANNEVIRKE (63) AND RAOUL I. MM IV

SEE ALSO DISTANT READINGS NJAA ORIGIN ADOPTED

	H M S								72/ 156
MAR 29	15 24 04.3	44.94S	167.70E	84 KM	SE 1.5	AVG MAG	4.1		
	+- 1.1	0.05	0.05	14					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ P	15 24 19.0		1.5	0.31	30			
	MNW IP	15 24 21.5	D	-0.7	0.84	184		4.8	4.6
	S	33.3		-2.4					
	ROX P	15 24 28.9		1.4	1.27	116		4.5	4.1
	S	45.3		0.5					
	WPZ EP	15 24 35.8		0.2	1.90	155		3.9	4.3
	S	25 00		1.4					
	MJZ P	15 24 40.0		0.4	2.20	65		3.7	3.8
	S	25 06.5		0.7					
	OMZ P	15 24 41.7		0.8	2.29	94		4.6	4.0
	ES	25 06		-2.0					
	KAI				3.61	49	4.0		
	COB EP	15 25 23		0.0	5.33	46		3.8	3.8
	ES	26 22		-1.7					
	MNG E	15 25 53			7.17	56			

	H M S								72/ 157
MAR 31	01 24 27.4	44.62S	168.54E	12 KM	SE 1.8	AVG MAG	3.6		
	+- 0.7	0.06	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ P*	01 24 35.7		-0.4	0.45	263			
	S*	41.4		-1.2					
	MNW EP*	01 24 50.0		-1.3	1.33	209		3.7	3.4
	ES*	25 11		1.9					
	MJZ EPN	01 24 54.0		0.1	1.52	66		3.6	3.5
	EP*	57		2.6					
	S*	25 14		-0.6					
	OMZ EPN	01 24 57.0		0.1	1.75	106		3.7	3.6
	EP*	59.7		1.4					
	ES*	25 19		-2.5					

FELT MT ASPIRING (113)

	H M S								72/ 158
MAR 31	08 22 51.4	44.24S	170.46E	12 KM	SE 1.3	AVG MAG	4.3		
	+- 0.5	0.03	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ IP*	08 22 55.8	U	-1.0	0.26	1			
	OMZ P*	08 23 06.8		-0.8	0.89	159			
	ES*	20.5		0.8					
	ROX EPN	08 23 16.5		-0.8	1.47	213		4.2	4.9
	IP*	18.2		0.6					
	S*	35.8		-1.5					
	KAI EP*	08 23 25		0.9	1.85	22			
	MSZ EPN	08 23 22.5		0.0	1.87	256		4.2	4.7
	IP*	25.3		0.9					
	S*	49		-0.2					
	MNW EPN	08 23 29.5		-2.2	2.53	232		4.0	3.7
	EP*	36.8		1.0					
	ESN	24 04		2.1					
	WPZ P*	08 23 38.5		0.4	2.67	205		4.2	

THIS EARTHQUAKE IS PRECEDED AT 08 22 21 BY ANOTHER OF MAG 3.5 IN TARANAKI

	H M S								72/ 159
MAR 31	12 22 42.9	37.54S	175.56E	12 KM	SE 1.9	AVG MAG	3.8		
	+- 0.5	0.02	0.06	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP PG	12 22 49.8	U	-1.1	0.38	183			
	SG	55.0		-1.3					
	AUC IPG	12 23 02.5		0.8	0.92	317			
	E	18							
	WTZ				1.21	112		3.7	3.7

	GBZ	P*	12	23	04.8	-1.7	1.32	357	4.2	4.1
		IPG			10.0	0.3				
		SG			27.4	-0.1				
	CNZ	EP*	12	23	10.5	-1.8	1.66	180	4.1	3.9
		IPG			14.2	-2.2				
		IS*			33	-1.3				
	TNZ	EP*	12	23	16	-0.3	1.89	209	3.7	3.5
		ESG			47	0.4				
	GNZ	EP*	12	23	22	-0.1	2.23	120	3.9	3.7
		EPG			30	2.0				
	TRZ	EPG	12	23	26	-2.2	2.24	154	3.7	
	MNG	EPN	12	23	33	2.6	3.07	181	3.8	3.4
		EP*			39.5	2.9				
		ES*		24	20	3.1				
		E			25					

	H	M	S									72/ 160
APR 01	09	10	40.3	39.27S		174.77E	220 KM	SE	1.6	AVG MAG		4.5
		+-	0.9	0.05		0.05	8					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	TNZ	EP		09	11	10.0	0.6	0.31	285			
		S				32	0.2					
	MNG	IP		09	11	17.5	U 1.8	1.45	158		4.7	4.9
		S				42.5	-0.6					
	KRP	P		09	11	15.5	D -0.3	1.47	24		4.4	
	TRZ	P		09	11	18.6	1.5	1.62	101		4.9	4.7
		E				42.0						
		S				47.3	1.8					
	TUA	P		09	11	20.0	0.2	1.91	77		4.6	4.8
		E				44						
		S				48	-2.3					
	WEL	P		09	11	22.0	1.2	2.01	180		4.3	5.0
		S				52.2	0.1					
	WTZ							2.16	54		4.3	4.2
	COB	P		09	11	25.6	0.9	2.39	220		4.6	4.2
		S				58	-1.0					
	GNZ	P		09	11	27.7	0.6	2.61	77		5.1	5.1
		E				55						
		S				59.0	-4.4*					
	GBZ	P		09	11	32.8	0.2	3.10	11		3.8	
	ECZ	E		09	11	50.5		3.36	63		4.8	4.7
		S			12	16	-2.6					
	KAI	ES		09	12	35	-0.2	4.13	217	4.2		
	MJZ	EP		09	12	06.0	1.2	5.71	213		4.0	3.6
		ES			13	07.5	-3.2					

	H	M	S									72/ 161
APR 01	15	57	43.4	37.45S		176.99E	191 KM	SE	1.1	AVG MAG		4.1
		+-	1.0	0.04		0.08	11					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	WTZ							0.53	180		4.1	3.7
	KRP	E		15	58	30		1.25	247			
	ECZ	EP		15	58	15	0.5	1.26	102		4.2	
	TUA	P		15	58	15	-0.4	1.36	175		4.1	3.9
		S				39	-1.1					
	GNZ	P		15	58	14.9	-1.2	1.44	146		4.9	4.7
		I				31.8						
		S				36.5	-4.8*					
	GBZ	P		15	58	19.0	0.2	1.73	315		3.7	
	TRZ	EP		15	58	23.8	1.0	2.10	184		3.9	4.1
		S				55	1.9					
	MNG	P		15	58	37.8	0.0	3.38	200		4.2	3.8
		S			59	19	-0.7					
	WEL	P		15	58	47.8	-0.3	4.20	204	4.5	4.2	4.1
		S			59	38	-0.1					
	COB	E		16	00	00		4.91	221			3.8

	H	M	S										72/ 162
APR 02	04	00	35.8	36.59S	177.12E	33 KM	SE	1.5	AVG MAG				4.1
		+-	1.1	0.07	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ		P*	04	01	00.5		-0.2	1.37	285		3.8	4.5
			S*			20.2		1.0					
	ECZ		P*	04	01	02.5		-1.9	1.58	134		4.3	
	KRP		EPN	04	01	03.8		-0.4	1.83	223		3.6	
			EP*			09		0.5					
			ESN			24.5		-1.1					
	GNZ		PN	04	01	10.0		1.1	2.17	161		4.4	
			ESN			36		2.2					
	CNZ		EP*	04	01	25.3		-1.2	2.88	205			
			E			40.5							

	H	M	S										72/ 163
APR 03	17	15	27.1	41.59S	172.49E	12 KM	SE	1.8	AVG MAG				3.2
		+-	0.9	0.04	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB		P*	17	15	37.3		0.0	0.53	21		3.2	3.5
			S*			46.3		1.6					
	WEL		P*	17	15	57		-0.9	1.74	81		3.4	3.2
			ES*		16	22		0.9					
	GPZ		ESN	17	16	27		0.1	2.11	177	3.2		
			ES*			34		1.9					
	MNG		EPN	17	16	07.0		0.8	2.46	68			
			EP*			11.0		0.7					
			ES*			40		-2.7					
	MUZ		EP*	17	16	14		-2.4	2.82	211		3.0	
			E			36							
	FELT MURCHISON (80) MM V												

	H	M	S										72/ 164
APR 04	10	41	57.2	38.18S	176.31E	12 KM	SE	1.2	AVG MAG				4.3
		+-	0.3	0.02	0.02	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ		EPG	10	42	07.0		-0.1	0.48	200			
	WTZ		IPG	10	42	08.3		-0.6	0.57	70			
	KRP		PG	10	42	12.0		1.3	0.66	292		4.4	
			I			16.0							
			ESG			24		4.3*					
	TUA		PG	10	42	13.2		-2.5	0.91	134			
	CNZ		P*	10	42	19.5	U	1.2	1.18	210		4.1	
			PG			21.3		0.2					
			I			24.3							
	GNZ		P*	10	42	24.0		1.4	1.42	110		5.2	
			IPG			26.2		0.2					
			ISG			46		0.7					
	TRZ		P*	10	42	24.0		1.3	1.43	164		4.6	
			EPG			25.5		-0.5					
			E			47							
	AUC		PG	10	42	35		1.5	1.79	317			
	TNZ		EP*	10	42	30		0.7	1.81	236		4.[illegible]	
			EPG			33		-0.9					
	ECZ		EP*	10	42	29.0		-0.6	1.83	75			
			EPG			34.5		0.3					
			ESG		43	00		0.9					
	GBZ		EP*	10	42	32.8		-0.8	2.07	341			
			EPG			38.5		-0.5					
			SG		43	06.3		-0.6					
	MNG		EP*	10	42	39		-2.3	2.52	194		4.3	
			EPG			46.5		-1.6					
			I			49.5							
	WEL		EP*	10	42	56		0.9	3.32	200	4.0	4.1	
			ESG		43	51		1.8					
	COB		E	10	43	02			4.01	222		4.0	
			EPG			17		-1.2					

FELT ROTORUA (33) MM IV LAKE OKAREKA (33) GALATEA (34)

	H	M	S								72/ 165
APR 04	11	07	57.2	38.20S	176.33E	12 KM	SE	1.8	AVG MAG		3.8
			+- 0.5	0.03	0.03	R					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ		PG	11 08 07.0		-0.1	0.48	204			
	WTZ		PG	11 08 07.8		-0.7	0.55	68		3.6	
		I		10.0							
	KRP		PG	11 08 12.7		1.3	0.69	293		3.8	
		I		14.0							
			SG	24		3.1					
	TUA		PG	11 08 12.9		-2.2	0.88	134		4.1	
		E		26.4							
	CNZ		P*	11 08 19.2		0.7	1.18	212		3.4	
			PG	21.3		0.1					
	GNZ		EP*	11 08 24.2		2.1	1.39	109		4.5	
		I	PG	25.7		0.3					
			SG	46.5		2.3					
	TRZ		EP*	11 08 23.4		1.0	1.41	165		4.0	
			EPG	25.1		-0.6					
			E	42							
	TNZ		EP*	11 08 31.5		1.9	1.83	237		3.7	
			EPG	32.5		-1.8					
	GBZ		EPG	11 08 38.5		-1.1	2.09	340			
			ESG	09 05.5		-2.3					
	MNG		EP*	11 08 39.5		-1.8	2.51	195		3.5	
			EPG	46		-2.0					

FELT ROTORUA (33) MM V LAKE OKAREKA (33)

	H	M	S								72/ 166
APR 04	11	38	11.8	38.29S	176.36E	12 KM	SE	1.7	AVG MAG		3.6
			+- 0.6	0.04	0.03	R					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		PG	11 38 21.5		-2.2	0.58	59		3.6	
	KRP		PG	11 38 26.0		-1.0	0.74	299		2.4	
			SG	38.5		1.4					
	TUA		PG	11 38 27.2		-1.1	0.81	130		3.9	3.9
			SG	38.5		-0.8					
	CNZ		EP*	11 38 34		2.1	1.11	215		3.4	
			EPG	36.5		2.1					
	TRZ		EPG	11 38 37.8		-0.7	1.32	164		3.8	
	GNZ		EP*	11 38 37.6		1.6	1.35	106		4.3	
			IPG	40.0		0.8					
			SG	59.5		2.0					
	TNZ		EPG	11 38 46.5		-1.6	1.79	239		3.5	
	GBZ		ESG	11 39 19		-5.4*	2.18	341			
	MNG		EP*	11 38 53		-1.4	2.43	196		3.4	
			EPG	39 00		-0.9					
			E	38 56							

	H	M	S								72/ 167
APR 04	12	02	05.6	38.21S	176.40E	12 KM	SE	1.7	AVG MAG		4.4
			+- 0.4	0.03	0.03	R					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ		EPG	12 02 15.4		-0.2	0.48	209			
	WTZ		PG	12 02 16.8	D	0.6	0.51	64			
	KRP		PG	12 02 21.0		0.3	0.74	292		4.6	
			ESG	33.5		2.8					
	TUA		PG	12 02 21.5		-1.0	0.84	136		4.5	
	CNZ		P*	12 02 28.5		1.4	1.19	214		4.4	
		I		29.4							
			PG	30.5		0.7					
	GNZ		EP*	12 02 32.0		2.4	1.34	109		5.0	
		I	PG	33.8		1.0					
		I		37.0							
			SG	55.0		4.0*					
	TRZ		P*	12 02 32.4		2.1	1.38	166		4.8	

		E			37.5					
	ECZ	EP*	12	02	37.0	0.1	1.77	74	4.9	
		EPG			40.5	-0.9				
	TNZ	EP*	12	02	40.5	2.1	1.86	238	3.9	
		EPG			41.7	-1.5				
	AUC	IPG	12	02	43.8	0.4	1.87	316		
	GBZ	EP*	12	02	42.3	-0.6	2.12	339	3.8	
		EPG			47.5	-0.9				
		ESG		03	15	-2.1				
	MNG	EP*	12	02	47.5	-2.1	2.51	196	4.3	
		IPG			55.5	-0.8				
		I			53.0					
	WEL	EPG	12	03	09	-3.7	3.32	202	4.2	
	COB	E	12	03	10		4.03	223	3.9	

FELT ROTORUA (33) MM V LAKE OKAREKA (33)

	H	M	S								72/ 168
APR 04	12	02	26.5	38.22S	176.29E	12 KM	SE	2.3	AVG MAG		4.6
		+-	0.7	0.05	0.04	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	12	02	36.6		1.1	0.43	199			
KRP	PG	12	02	41.6		1.7	0.66	296			
CNZ	PG	12	02	51		1.5	1.13	210		4.7	
TRZ	PG	12	02	53		-1.8	1.40	163		5.0	
GNZ	PG	12	02	58.0		2.5	1.43	108		5.5	
	ESG		03	15		0.2					
TNZ	EP*	12	03	01.0		3.1	1.77	236		4.5	
	EPG			02.2		-0.2					
ECZ	EP*	12	02	59		-0.5	1.87	74		4.9	
GBZ	SG	12	03	35.3		-2.0	2.10	342			3.4
MNG	I	12	03	12			2.47	194		4.7	
	IPG			14.5		-2.0					
WEL	EPG	12	03	29		-3.7	3.28	200			
COB	E	12	03	32			3.96	223		4.3	

FELT ROTORUA (33) MM V

	H	M	S								72/ 169
APR 04	12	36	08.3	38.22S	176.29E	12 KM	SE	1.9	AVG MAG		4.6
		+-	0.4	0.02	0.02	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EPG	12	36	17.5		0.1	0.44	199			
	ESG			23.5		0.0					
WTZ	PG	12	36	19.5	D	-1.2	0.60	67			
KRP	IPG	12	36	23.2	U	1.3	0.66	296		4.7	
	ESG			32.5		1.6					
TUA	PG	12	36	24.8	U	-1.8	0.90	131		5.2	
CNZ	P*	12	36	31.1		2.2	1.14	210		4.7	
	PG			33.3		1.9					
TRZ	P*	12	36	35.2		1.9	1.40	163		5.0	
	PG			37.1		0.5					
GNZ	P*	12	36	34.9		1.1	1.43	108		5.5	
	IPG			36.8		-0.5					
	ISG			59		2.4					
TNZ	EP*	12	36	41.4		1.6	1.78	236		4.7	
	IPG			44.2		-0.1					
AUC	EP*	12	36	41.5		1.1	1.81	318			
	PG			46.5		1.5					
ECZ	EP*	12	36	40.0		-1.3	1.86	74		5.1	4.7
	IPG			44.7		-1.3					
	SG		37	13		1.8					
GBZ	EP*	12	36	44.8		-0.5	2.10	342		3.4	3.3
	EPG			49		-1.8					
	SG		37	17.3		-1.8					
MNG	EP*	12	36	49.8		-2.0	2.48	194		4.5	
	EPG			55		-3.4					
	E		37	36							
WEL	EP*	12	37	08		2.5	3.28	200	4.2	4.6	
	EPG			11.5		-3.2					

	COB	E	12 37 13.5				3.97	223		4.4			
		EPG	26		-2.5								
	H M S											72/ 170	
APR 05	18 29 17.9		39.04S	175.72E	114 KM		SE 1.2		AVG MAG		4.5		
	+- 0.7		0.03	0.03	8								
			H M S	DIR	RES		DIST	AZ	W-A	W P		W S	
	CNZ	P	18 29 34.0	D	-0.1		0.21	220					
	WNZ	EP	18 29 34.8		-0.7		0.51	36		4.4			
	TRZ	P	18 29 42.0		2.3		1.00	121		4.6		5.1	
		I	30 01										
	TNZ	P	18 29 41.3		1.0		1.05	262		4.7		3.9	
		S	58.8		1.4								
	KRP	P	18 29 41.0		-0.1		1.12	353		4.4		4.1	
		S	57.5		-1.3								
	TUA	EP	18 29 42.0		0.7		1.14	79		4.5			
	WTZ	P	18 29 45.0		0.0		1.45	44				4.2	
		I	30 00.3										
		S	05		-0.3								
	MNG	IP	18 29 47.5	U	0.9		1.59	187		4.8			
		E	30 00										
		E	07										
	GNZ	P	18 29 50.3		1.2		1.84	78		4.9		4.9	
		S	30 12.0		-1.3								
	WEL	EP	18 29 55.0		-1.4		2.36	198	4.5	4.6		4.9	
		I	30 00.3										
		IS	24.0		-1.3								
		I	34.0										
	GBZ	P	18 30 03		0.3		2.82	356		3.5			
	COB	EP	18 30 05.0		-1.0		3.07	227		4.5		4.9	
		ES	42		-0.3								
	KAI						4.78	222	4.4				
	GPZ	S	18 31 27		-6.9*		5.20	205	5.1				
	H M S											72/ 171	
APR 07	00 53 10.3		40.38S	179.99E	33 KM		SE 1.7		AVG MAG		4.7		
	+- 0.6		0.03	0.04	R								
			H M S	DIR	RES		DIST	AZ	W-A	W P		W S	
	GNZ	PN	00 53 44.3		-1.0		2.31	318		5.1		4.8	
		EP*	51		-0.2								
		ESN	54 13		1.2								
	TRZ	EPN	00 53 51		2.1		2.57	288		4.4		4.7	
		EP*	56		0.3								
		ESN	54 21		2.8								
		ES*	29		-0.6								
	TUA	EPN	00 53 51		0.3		2.70	305		5.1		4.7	
		EP*	57		-0.9								
		ESN	54 23		1.7								
	ECZ	EPN	00 53 53		-0.6		2.91	337		4.6		4.5	
		ESN	54 25		-1.5								
	WTZ	EPN	00 53 59		-0.5		3.35	315		4.9		4.1	
		P*	54 06.0		-2.9								
		ESN	40		3.0								
	MNG	PN	00 54 00.3		-0.6		3.45	265		4.6		4.5	
		EP*	08		-2.6								
		ESN	40		0.5								
		E	51										
	CNZ	PN	00 54 04.3		1.5		3.62	288		4.7		4.7	
		P*	11.2		-2.4								
		ESN	42		-1.8								
		E	50										
	WEL	EPN	00 54 08.5		-0.8		4.06	256	4.9	4.6		4.9	
		EP*	19		-2.2								
		SN	53.8		-0.7								
	KRP	PN	00 54 13.8		2.0		4.25	304		3.8			
	CIZ	EPN	00 54 13		-0.7		4.39	145		4.9		5.1	
		ESN	55 03		0.6								
	COB	EPN	00 54 31		1.5		5.56	260		4.5		4.5	

		ESN		55	33		2.4						
	H	M	S										72/ 172
APR 07	02	25	56.3	37.76S		175.57E	33 KM	SE	2.8	AVG MAG			3.8
	+-		5.3	0.25		0.14	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	ES		02	26	54		0.8	2.12	115			4.1
	MNG	IP		02	26	36.5	U	-2.3	2.86	181		4.2	3.3
		ES			27	11		-0.0					
	COB	ES		02	27	40		1.4	3.98	213			3.6
	H	M	S										72/ 173
APR 07	11	59	01.4	43.95S		168.83E	33 KM	SE	1.6	AVG MAG			3.8
	+-		0.8	0.04		0.05	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ	EPN		11	59	19		-1.8	1.18	92		3.4	3.6
		ESN				34		-1.3					
		ES*				38		-1.1					
	ROX	EP*		11	59	29		-0.6	1.57	167		3.9	4.2
		ESN				45		0.2					
	OMZ	EPN		11	59	31		0.8	1.86	128		4.1	4.0
		ESN				55		3.1					
	MNW	EPN		11	59	33		0.5	2.03	205		3.9	3.8
		ES*		12	00	03		-1.3					
	KAI	EP*		11	59	46		2.9	2.36	54	3.7		
		ES*		12	00	14		-0.2					
	GPZ	E		11	59	54			2.77	86	3.5		
		ES*		12	00	26		-0.5					
	COB	EPN		12	00	00		-0.3	4.06	47		3.9	3.7
		ESN				45		-0.4					
	H	M	S										72/ 174
APR 07	22	31	46.1	41.80S		174.36E	57 KM	SE	1.2	AVG MAG			3.7
	+-		0.8	0.06		0.04	17						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP		22	32	00.5	U	1.1	0.60	31	3.6	4.1	4.2
		E				04.9							
		S				09.1		-0.4					
	COB	IP		22	32	11.2	U	0.9	1.42	300		4.0	3.9
		S				28.1		-0.3					
	MNG	IP		22	32	11.1	U	0.3	1.45	36		3.9	3.6
		S				28.0		-1.2					
	KAI	ES		22	32	50		0.0	2.31	251	3.3		
	MJZ	EP		22	32	42		1.1	3.60	231		3.1	3.1
		ES			33	21		-1.5					
	H	M	S										72/ 175
APR 08	10	19	46.4	35.55S		179.71E	313 KM	SE	2.4	AVG MAG			4.2
	+-		2.7	0.20		0.24	25						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	EP		10	20	46.5		0.3	3.27	221		4.3	4.0
		ES			21	30		-3.0					
	GNZ	P		10	20	50		2.7	3.37	203		4.7	4.8
		ES			21	35		0.1					
	TUA	E		10	21	48			3.84	211			4.3
	KRP	EP		10	20	53		-2.0	4.11	233		3.8	3.3
		ES			21	50		1.3					
	ONE	E?		10	21	21			4.36	265	4.2		
	TRZ	E		10	22	04			4.61	209			4.3
	CNZ	EP		10	21	05.5		1.4	4.93	221		4.1	3.7
		ES			22	08		2.9					
	MNG	EP		10	21	15		-2.4	6.06	212			
		ES			22	28		-0.9					
	WEL	ES		10	22	47		-0.3	6.92	213	4.9		

	H M S									72/ 176
APR 08	17 33 34,8	38.24S	176.41E	116 KM	SE	1.1	AVG MAG			3.9
	+- 0,9	0.04	0.03	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ IP	17 33 52.3	U	-0.5	0.52	61		3.8	3.7	
	ES	34 05		-1.5						
	KRP IP	17 33 55.4	DSW	0.8	0.75	294		4.3	3.1	
	ES	34 09.5		-0.2						
	TUA P	17 33 55.2		0.1	0.81	135		4.2	4.3	
	ES	34 12		1.4						
	GNZ P	17 34 00.9		0.3	1.33	108		4.2	4.1	
	E	06								
	ES	20		-0.1						
	TRZ EP	17 34 01.2		0.3	1.35	166		4.1	4.4	
	E	04.5								
	ES	25		4.4*						
	TNZ EP	17 34 09		2.3	1.85	238		3.8		
	MNG EP	17 34 14.0		-1.0	2.48	197		3.8	3.8	
	E	20.5								
	ES	45		-0.3						
	E	52								
	WEL ES	17 35 05		0.2	3.30	202	3.9		3.8	
	COB EP?	17 34 35		-0.7	4.02	224			3.5	
	ES	35 21		-1.2						

	H M S									72/ 177
APR 08	19 51 33,6	37.81S	176.19E	224 KM	SE	0.6	AVG MAG			3.7
	+- 0,6	0.03	0.03	4						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P	19 52 03.8		0.1	0.53	257		3.3	2.9	
	ES	27		0.1						
	WTZ P?	19 52 03.2		-1.0	0.66	106		3.4		
	GNZ EP	19 52 12		0.9	1.67	121		4.1	4.1	
	S	40.0		-0.1						
	TRZ EP	19 52 13		0.6	1.81	164		3.9	3.8	
	ES	46.5		4.1*						
	MNG IP	19 52 22.9	U	-0.4	2.86	191		4.3	3.9	
	ES	53 02		0.1						
	WEL P	19 52 31.8		-0.7	3.64	197	3.9	3.9	3.8	
	ES	53 18		-0.2						
	COB EP	19 52 40		0.4	4.23	218		3.5	3.7	
	ES	53 31		0.2						

	H M S									72/ 178
APR 08	21 44 54,1	40.33S	173.96E	12 KM	SE	2.0	AVG MAG			3.6
	+- 0,6	0.03	0.03	8						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL EP*	21 45 15		0.4	1.14	148	2.9	3.6	3.7	
	PG	16.3		-0.9						
	S*	30.7		0.8						
	TNZ P*	21 45 15.9	D	0.4	1.19	16		3.9	3.7	
	ES*	32		0.6						
	MNG P*	21 45 15.4		-0.3	1.20	104		3.8	3.9	
	PG	17		-1.4						
	E	28.0								
	S*	31.1		-0.6						
	ESG	35		0.4						
	COB P*	21 45 16.9		1.1	1.20	231		3.7	4.0	
	E	26.3								
	ES*	34.5		2.6						
	TRZ EPN	21 45 34		2.5	2.33	72			3.6	
	ES*	46 09		3.1						
	KRP PN	21 45 34.8		-1.9	2.70	28		3.3	3.5	
	ESN	46 05		-3.6						
	GPZ ESN	21 46 24		-3.9	3.51	196	3.9			
	MJZ EPN?	21 46 02		1.3	4.48	214		3.2	3.0	
	ESN	51		-0.5						

	H M S										72/ 179
APR 09	01 33 44.7	38.56S	175.87E	194 KM	SE	1.6	AVG MAG	4.7			
	+- 1.0	0.05	0.04	8							
		H M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
KRP	IP	01 34	12.7	DSE	0.5	0.69	338		4.9	3.9	
	ES		32.5		-0.9						
TUA	IP	01 34	15.5	U	1.2	1.03	104		5.1	4.8	
	E		31.0								
	S		36.0		-1.2						
WTZ	IP	01 34	14.2	D	-0.3	1.05	57		4.4	4.3	
	ES		36		-1.5						
TRZ	IP	01 34	18.5	U	2.6	1.24	143				
	ES		42		1.9						
TNZ	IP	01 34	18.2	U	1.6	1.32	241		4.3	3.6	
	ES		43		1.8						
GNZ	P	01 34	21.3	U	1.3	1.69	93		5.0	5.1	
	E		44								
	ES		47		-0.3						
MNG	P	01 34	25.5	U	1.5	2.07	188		4.9	4.9	
	ES		53		-1.2						
ECZ	EP	01 34	27		0.7	2.28	68		4.8	4.7	
	ES		56		-2.3						
WEL	IP	01 34	33.3	U	0.4	2.85	197	4.7	5.1	4.9	
	ES	35	09		-1.1						
COB	EP	01 34	39		-1.6	3.49	223		4.4	4.6	
	ES	35	22		-1.8						
GPZ	EP	01 35	07		-1.5	5.68	204	5.3			
	ES	36	09		-4.5*						

	H M S										72/ 180
APR 09	12 29 50.4	38.35S	175.88E	166 KM	SE	1.3	AVG MAG	3.8			
	+- 1.0	0.04	0.04	8							
		H M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
KRP	IP	12 30	14.7	D	-0.0	0.68	336		3.3	3.0	
	ES		33		-0.5						
CNZ	IP	12 30	16.1	U	1.3	0.70	202		4.0		
TUA	ES	12 30	38		0.3	1.02	105			4.1	
WTZ	EP	12 30	16		-1.2	1.04	57		3.2	3.1	
	ES		37.5		-0.4						
TRZ	EP	12 30	21		2.0	1.24	144		4.0	4.2	
	ES		42		0.9						
TNZ	EP	12 30	21.5		1.6	1.33	241		3.6		
GNZ	P	12 30	24.2		0.8	1.68	94		3.9	4.0	
	ES		47		-1.8						
MNG	IP	12 30	29.0	U	1.1	2.09	188		4.4	4.2	
	ES		55.5		-1.3						
WEL	P	12 30	36.9		-0.5	2.86	197	3.9	3.9	3.9	
	ES	31	13		-0.5						
COB	EP	12 30	44		-1.5	3.51	223		3.6	3.7	
	ES	31	27.5		-0.4						

	H M S										72/ 181
APR 10	10 00 02.6	38.74S	176.16E	122 KM	SE	1.5	AVG MAG	4.2			
	+- 0.8	0.04	0.03	7							
		H M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
CNZ	IP	10 00	22.3	U	0.1	0.66	226		4.4	3.9	
	ES		38.5		1.3						
TUA	EP	10 00	23.5		0.4	0.78	95		4.1	4.6	
	E		32.5								
	ES		37.5		-1.2						
KRP	P	10 00	24.8		0.2	0.95	329		3.4	3.2	
	ES		40		-1.4						
TRZ	P	10 00	26.2		1.5	0.96	148		4.4		
	ES		44		2.4						
WTZ	IP	10 00	24.6	D	-0.5	1.00	41		3.9	3.7	
	ES		40		-2.2						
TNZ	EP	10 00	32		1.8	1.46	252		5.4	4.9	

		ES			53		1.9				
	GNZ	P	10	00	30.9	D	0.6	1.46	87	5.1	4.8
		ES			50		-1.2				
	MNG	IP	10	00	36.4	U	0.5	1.95	195	4.4	4.1
		ES			59.5		-1.7				
	ECZ	P	10	00	39.1		0.5	2.15	62	4.5	4.2
		ES		01	07		1.2				
	WEL	P	10	00	45.8		-1.0	2.76	202	4.4	4.5
		ES		01	18		-2.2				
	COB	EP	10	00	57		0.1	3.53	227	3.6	4.0
		ES		01	37		-1.3				

	H	M	S								72/ 182
APR 11	09	18	42.7	38.35S		175.85E	194 KM	SE	1.4	AVG MAG	4.0
		+-	1.3	0.05		0.05	9				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		09	19	09.2	DSE	0.0	0.49	329			
		ES				29		-0.6					
	CNZ	IP		09	19	12.8	U	1.6	0.89	196		4.3	
	WTZ	P		09	19	11.5		-0.1	0.96	68		3.4	3.4
		ES				33		-1.2					
	TUA	ES		09	19	38		1.8	1.11	115			4.2
	TRZ	EP		09	19	13		-2.4	1.42	148		4.1	4.4
		E				17.5							
		ES				42		1.3					
	TNZ	EP		09	19	17		1.6	1.43	234		3.8	
	GNZ	E		09	19	13			1.72	101		4.2	4.4
		ES				45		-0.7					
	MNG	IP		09	19	25.1	U	0.9	2.29	187		4.4	4.3
		ES				55		-1.2					
	WEL	P		09	19	33.0		-0.2	3.05	196	3.9	4.3	4.0
		ES			20	12		-0.2					
	COB	EP		09	19	41		0.5	3.65	220		3.9	4.0
		ES			20	24		-1.1					

	H	M	S								72/ 183
APR 11	11	20	22.5	45.09S		166.29E	12 KM	SE	1.1	AVG MAG	3.5
		+-	1.2	0.04		0.06	R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	PPZ	P*		11	20	42.8		0.8	1.08	167			
		E				51.3							
		S*				55.5		-1.0					
	MNW	P*		11	20	43.5		0.1	1.16	127		4.1	3.8
		ES*			21	00		0.9					
	MSZ	EP*		11	20	44		-0.6	1.23	71		3.3	3.4
		ES*			21	00		-1.1					
		SG				05.2		1.1					
	ROX	EPG		11	21	05		-1.5	2.17	101		3.6	
	MJZ	EPG		11	21	27		0.1	3.18	71		3.2	3.1
		E			22	04							
	OMZ	EPN		11	21	14		1.2	3.28	91		3.5	

	H	M	S								72/ 184
APR 11	14	48	26.6	39.30S		175.25E	157 KM	SE	2.1	AVG MAG	4.9
		+-	0.6	0.04		0.03	B				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	P		14	48	51.1	U	1.2	0.69	279		4.3	4.4
		ES			49	08		0.1					
	WNZ	P		14	48	52.3		0.6	0.94	45		5.2	
	TRZ	IP		14	48	56.7	D	2.3	1.24	102		5.1	
		ES			49	16		0.2					
	MNG	IP		14	48	58.0	U	2.7	1.33	173		5.0	4.8
		ES			49	20		2.7					
	KRP	IP		14	48	56.0	DSW	0.1	1.39	9		4.6	4.4
		E			49	10							
		ES				15		-3.3					
	TUA	IP		14	48	58.7	D	1.1	1.55	72		5.0	5.0
		E			49	12							

	ES			19		-2.4						
WTZ	IP	14	49	01.1	D	-0.1	1.89	47		4.7	4.5	
	S			25		-2.8						
WEL	IP	14	49	05.2	USE	2.5	2.02	190	5.0	5.2	5.5	
	ES			31		0.5						
GNZ	IP	14	49	06.2	DSW	0.7	2.25	74		5.8	5.2	
	ES			33		-2.4						
COB	P	14	49	11.7		1.4	2.63	226		4.9	5.3	
	ES			44		0.2						
ECZ	P	14	49	16.9	D	1.5	3.04	59		5.8	5.1	
	ES			51.5		-1.3						
ONE	EP	14	49	24.5		2.0	3.59	348	4.0			
	ES		50	06		0.6						
KAI	EP	14	49	34		1.6	4.35	221	5.2			
	ES		50	22		-1.1						
GPZ	EP	14	49	39		0.5	4.81	203	5.4			
	ES		50	30		-4.0						
CRZ	EP	14	49	44		-0.6	5.28	336		4.0		
MJZ	EP	14	49	55		2.1	5.90	216		4.3	4.7	
	E		50	32								
	ES			58		-1.9						
OMZ	P	14	50	03.9		1.5	6.61	208				
	ES		51	13		-3.8						
MSZ	EP	14	50	16		-0.4	7.66	223				
	ES		51	37		-5.0*						
CIZ	E	14	50	24			7.69	130				
	ES		51	38		-4.8*						
MNW	EP	14	50	31		2.3	8.58	219				
	ES		52	00		-4.0						

FELT MASTERTON MM IV

	H	M	S								72/ 185
APR 11	16	20	16.2	38.30S	176.24E	153 KM	SE	1.4	AVG MAG		4.0
	+- 1.1			0.05	0.04	8					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP	16	20	38.4		-0.5	0.67	62		3.9	3.4
	ES			54.5		-2.0					
KRP	EP	16	20	39		0.0	0.67	304		3.6	3.4
	ES			57		0.5					
TUA	EP	16	20	41		0.7	0.87	126		4.1	4.0
	ES			59		0.0					
TRZ	P	16	20	46.3	D	1.8	1.33	160		4.2	4.3
	ES		21	08		1.7					
GNZ	EP	16	20	47		1.4	1.44	104		3.9	4.2
	ES		21	07		-1.2					
TNZ	EP	16	20	51		2.5	1.71	238		3.8	
MNG	IP	16	20	55.8	U	-0.8	2.39	194		5.0	3.9
	ES		21	27		-0.5					
WEL	P	16	21	05.8		-1.0	3.19	200	4.2	4.4	4.1
	ES			45		-0.6					
COB	EP	16	21	14.5		-1.3	3.88	223		3.9	4.1
	ES		22	01		-0.7					

	H	M	S								72/ 186
APR 12	05	41	03.7	45.38S	167.29E	139 KM	SE	1.2	AVG MAG		3.6
	+- 1.1			0.06	0.06	8					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP	05	41	20.2	U	0.6	0.30	131			
	ES			31		-0.8					
PPZ	IP	05	41	21.6	U	-0.9	0.73	220			
MSZ	P	05	41	26.0	D	0.8	1.01	26		4.1	3.7
	ES			42		0.4					
ROX	P	05	41	31.8		1.6	1.43	87		3.9	3.7
	ES			51		0.9					
OMZ	E?	05	41	48.5			2.61	80		3.4	4.1
	ES		42	16		-0.7					
MJZ	EP	05	41	47		-0.5	2.76	56		3.2	3.0
	E		42	04							

		ES			19		-1.5					
	H M S											72/ 187
APR 12	06 47 24.4		38.65S		176.45E		12 KM	SE	1.6	AVG MAG		2.8
	+- 1.0		0.04		0.05		R					
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	06	47	28.7		-1.7	0.27	273			
	WTZ	ESG	06	47	51		-0.1	0.78	33			2.5
	KRP	EPG	06	47	45		-0.1	1.02	315		3.0	2.8
		ESG		48	00		1.0					
	MNG	EPG	06	48	08		0.9	2.11	201		2.8	
	FELT WAIRAKEI (41)											
	H M S											72/ 188
APR 12	08 36 18.4		38.51S		176.03E		136 KM	SE	1.3	AVG MAG		3.6
	+- 1.2		0.04		0.04		10					
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	08	36	40.2		0.7	0.70	326		2.9	2.8
		ES			56		0.2					
	WTZ	P	08	36	40.4		-0.8	0.91	56		3.2	2.9
		ES			58.5		-0.3					
	TUA	ES	08	36	54		-4.9*	0.93	109			3.9
	TRZ	P	08	36	46.3		2.1	1.21	150		3.8	3.8
		ES		37	05		1.1					
	GNZ	P	08	36	48.4		0.4	1.56	96		4.2	4.0
		ES		37	09		-1.6					
	MNG	IP	08	36	55.0	U	0.0	2.15	191		4.3	3.3
		ES		37	22		-0.9					
	COB	ES	08	37	56		-0.9	3.62	224			3.9
	H M S											72/ 189
APR 12	14 34 41.6		38.32S		177.55E		33 KM	SE	1.3	AVG MAG		3.8
	+- 0.6		0.03		0.04		R					
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IPN	14	34	51.8	DNE	0.2	0.49	131			
		ES			59		0.2					
	WTZ	IPN	14	34	52.0	U	-0.5	0.56	307		4.0	4.1
		ESN		35	01		0.7					
	TUA	IPN	14	34	53.2	D	0.4	0.58	213		4.7	4.5
		ES*		35	03		1.1					
	TRZ	EPN	14	35	03		-0.4	1.35	205		4.1	3.9
		E			11.3							
		ES*			25		0.5					
	KRP	PN	14	35	06.3		-1.0	1.64	283		3.1	3.2
		ESN			27		0.4					
	TNZ	EPN	14	35	22		1.1	2.62	250		3.4	3.4
		E		36	18							
	MNG	EPN	14	35	20		-3.2	2.80	214		3.2	3.4
		E			35							
	WEL	ESN	14	36	16		0.2	3.65	215	4.1		3.7
	COB	EPN	14	35	50		1.7	4.63	232		3.8	3.7
		ESN		36	38		-1.4					
	CIZ	ESN	14	37	36		-4.4*	7.17	144			
	FELT PIKOWAI (27)											
	H M S											72/ 190
APR 12	15 52 00.0		45.04S		167.51E		100 KM	SE	1.6	AVG MAG		4.0
	+- 1.1		0.06		0.06		9					
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP	15	52	17.2	U	1.5	0.47	38			
		ES			28		0.2					
	MNW	IP	15	52	18.4	U	0.4	0.74	174		4.1	4.6
		ES			30		-1.7					
	PPZ	P	15	52	24.7		0.8	1.26	209			
		ES			40		-1.8					
	ROX	P	15	52	26.4	D	1.4	1.35	109		4.4	4.4
		S			44.6		0.9					
	MJZ	EP?	15	52	39		1.0	2.36	64		3.1	3.5

		E			53	17						
		E				33						
	OMZ	IP	15	52	40.2	U	1.5	2.41	92		4.4	4.1
		ES			53	07		-0.5				
	KAI	E	15	53	52			3.78	50	3.9		
	GPZ	ES	15	53	43		-1.4	3.92	72	4.1		
	COB	E	15	53	40			5.50	46		3.9	3.7
		ES			54	21		-2.4				

	H	M	S									72/ 191
APR 13	10	18	34.8	33.41S		179.19W	286 KM		SE	1.5	AVG MAG	4.9
		+-	1.3	0.07		0.10	21					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	P	10	19	57.0		-1.6	5.53	213		4.7	4.3
	ES		21	05		0.8					
GNZ	P	10	20	00.2		-0.4	5.70	203		5.1	5.0
	ES		21	07		-0.8					
ONE	EP	10	20	03		0.9	5.83	244	4.8		
TUA	P	10	20	05.8		-0.3	6.15	208			
	ES		21	19		1.2					
	E			44							
KRP	EP	10	20	08		0.9	6.23	222			
CRZ	P	10	20	15.0		0.4	6.84	259			
TRZ	EP	10	20	15		-0.7	6.93	207			
	E		21	40							
CNZ	EP	10	20	18		-0.8	7.18	215			
	E			38							
	E			51							
	E		21	48							
TNZ	EP	10	20	29		3.0	7.76	220			
MNG	EP	10	20	31		-2.5	8.37	209			
	ES		22	05		-1.8					
WEL	ES	10	22	27		1.1	9.22	210	5.4		
COB	E	10	21	17			10.01	218			
	ES		22	43		-0.6					
CIZ	ES	10	23	01		1.3	10.73	170			

	H	M	S									72/ 192
APR 13	18	03	37.6	34.67S		179.71W	33 KM		SE	2.7	AVG MAG	4.4
		+-	2.2	0.10		0.13	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	PN	18	04	39.9	D	0.8	4.25	218		4.6	4.4
	ESN		05	29		2.7					
GNZ	EPN	18	04	40		-0.7	4.36	204		4.7	5.0
	SN		05	31.8		2.7					
TUA	EPN	18	04	48		0.8	4.84	211		4.7	4.4
	EP*		05	02		0.3					
	ESN			43		2.5					
ONE	EPN	18	04	52		3.0	4.98	256	4.2		
KRP	PN	18	04	51.0		1.3	5.03	228		3.6	3.5
	ESN		05	46		0.9					
TRZ	EPN	18	04	57		-0.5	5.61	209		4.1	4.8
	ESN		06	01		1.9					
CNZ	EP*	18	05	15		-3.0	5.90	219		4.1	4.0
	E		06	12							
CRZ	EPN	18	05	08		1.3	6.29	270			
TNZ	EP*	18	05	28		-2.8	6.54	225			
MNG	EPN	18	05	13		-4.1	7.06	211			
	E			58							
	E		06	12							
	E			22							
	ESN			30.3		-3.3					
WEL	ESN	18	06	50.3		-3.8	7.91	212	5.7		
CIZ	E	18	05	55			9.58	166			
	ESN		07	36		1.8					

	H M S								72/ 193
APR 13	19 11 34.3	37.77S	176.36E	217 KM	SE 1.2		AVG MAG		3.9
	+- 1.3	0.05	0.05	9					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ P	19 12 03.0		-0.7	0.54	113		4.1	
	KRP P	19 12 04.3	D	0.1	0.67	257		3.4	3.0
	ES	27		-0.3					
	TUA EP	19 12 08		0.5	1.21	149		4.1	4.0
	ES	33.5		0.3					
	GNZ P	19 12 10.3		0.4	1.57	124		4.5	4.3
	ES	37		-1.4					
	TRZ ES	19 12 44.5		2.3	1.81	169			3.9
	MNG IP	19 12 24.1	U	-0.3	2.92	193		4.1	4.0
	ES	13 02		-1.3					
	COB ES	19 13 34		0.4	4.34	219			3.7

	H M S								72/ 194
APR 14	23 12 00.4	40.32S	174.24E	12 KM	SE 1.4		AVG MAG		3.9
	+- 0.3	0.02	0.02	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG IP*	23 12 18.9	U	0.4	1.00	108		4.5	4.3
	PG	20.3		-0.3					
	ESG	33		-1.2					
	WEL IP*	23 12 20.7		1.3	1.05	158	3.2	4.2	4.1
	ES*	35		1.5					
	TNZ EP*	23 12 22.5		1.6	1.13	6		3.6	3.6
	ES*	36.4		0.3					
	COB PN	23 12 23.8	U	-1.3	1.38	236			
	ESN	42		-1.3					
	CNZ PN	23 12 26.7	U	-0.1	1.51	43		4.2	4.3
	E	35							
	ESN	47		0.7					
	KRP PN	23 12 42.0		0.5	2.59	23		3.5	3.7
	ESN	13 10		-2.4					
	E	33							
	TUA P*	23 12 47.5		-0.3	2.71	57		4.1	4.0
	E	13 10							
	KAI EPG	23 13 03		0.6	3.06	223	3.7		
	ESN	23		-0.4					
	ES*	34		-0.1					
	WTZ EPN	23 12 52		2.9	3.16	43		3.6	3.4
	ESN	13 27		1.2					
	GNZ EPG	23 13 07		-1.6	3.37	62		4.1	4.2
	ESN	29		-1.9					
	GPZ E	23 13 29			3.58	199	4.1		
	CIZ ESN	23 15 10		-5.6*	7.74	121			

	H M S								72/ 195
APR 15	08 38 25.3	48.69S	165.72E	12 KM	SE 1.7		AVG MAG		4.1
	+- 1.9	0.14	0.11	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	PPZ PN	08 39 07.3		0.5	2.62	14			
	E	32							
	WPZ EP*	08 39 16.5		-0.0	2.93	47		3.8	4.2
	ESN	46		0.5					
	MNW PN	08 39 15.1		0.8	3.18	25		4.4	4.5
	EP*	18		-2.9					
	ESN	50		-1.2					
	ROX E	08 39 31			4.04	39		4.1	4.3
	ESN	40 11		-1.1					
	MSZ PN	08 39 31.5		2.2	4.29	21		3.4	3.7
	E	33.2							
	P*	39.0		-0.9					
	ESN	40 19		0.9					
	OHZ P*	08 39 52		-1.3	5.07	46		4.0	4.2
	E	40 01							
	E	42							

	KAI	E	08	41	42			7.34	35	4.7		
	COB	E	08	40	41			9.08	36			
		ESN		42	15		2.7					

	H	M	S									72/ 196
APR 15	09	03	10.8	37.78S	176.83E	12 KM	SE	1.2	AVG MAG			4.0
		+-	0.5	0.02	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP*	09	03	15.8		-0.1	0.24	149			
	ESG			21		1.4					
KRP	IP*	09	03	28.1	DNE	-1.4	1.03	262		4.2	3.8
	PG			31.4		-0.4					
	S*			41.8		-1.7					
	ESG			46		0.2					
TUA	PG	09	03	30.8	U	-1.4	1.06	166		4.3	4.2
	ESG			46		-0.6					
GNZ	PG	09	03	36.9	USE	0.3	1.28	133		4.9	4.1
	E			37.8							
	E		04	03							
CNZ	PG	09	03	45.0	U	-1.0	1.74	215		3.6	
TRZ	P*	09	03	42.3		0.2	1.77	180		4.3	3.8
	EPG			46		-0.6					
	ESG		04	09		-1.5					
AUC	PG	09	03	48.0	D	-0.8	1.88	299			
	ESG		04	14		-0.1					
GBZ	EPG?	09	03	49.3		0.1	1.90	325			
	ES*		04	10		0.6					
TNZ	ESG	09	04	33		1.9	2.38	233			3.1
MNG	EP*	09	04	03		-0.6	3.02	200		3.6	
	EPG			13		1.1					
COB	EPN	09	04	21		2.4	4.58	223		3.8	
	EPG			45.5		2.1					

FELT MAKETU (26) MM IV

	H	M	S									72/ 197
APR 16	02	52	22.3	39.65S	174.03E	187 KM	SE	1.6	AVG MAG			4.0
		+-	1.0	0.06	0.05	9						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	ES	02	53	07		-1.3	0.54	31			3.4
	E			13							
CNZ	P	02	52	54.7		1.7	1.26	69		4.4	4.1
	S		53	17.5		0.7					
	E			21.0							
MNG	IP	02	52	56.4	U	1.5	1.47	131		4.7	4.4
	ES		53	19.8		-0.3					
WEL	P	02	52	58.1		0.7	1.73	161	3.8	3.6	4.1
	ES		53	24		-0.5					
COB	P	02	52	58.8		1.2	1.74	214		4.6	4.0
	ES		53	25.5		0.8					
KRP	EP	02	53	01.5		0.3	2.09	35		3.1	3.0
	E			53							
	E		54	00							
TRZ	EP	02	53	03		1.0	2.16	88		4.3	4.1
	ES			33.5		0.9					
WTZ	E?	02	53	04.3			2.85	55		3.8	
	EP			09		-1.2					
GNZ	IP	02	53	15.4	D	0.3	3.27	73		4.8	4.1
	ES			53		-2.9					
KAI	ES	02	53	58		-2.8	3.49	214	4.0		

FELT PATOKA (52) MM IV

	H	M	S									72/ 198
APR 16	05	10	13.6	40.06S	175.11E	12 KM	SE	1.1	AVG MAG			4.4
		+-	0.2	0.01	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	05	10	26.0	U	0.6	0.63	153		4.3	4.2
	ES*			34		-0.1					
CNZ	IP*	05	10	29.5	U	-0.9	0.93	22		4.7	4.6

	ES*			41		-2.0					
TNZ	P*	05	10	33.2		0.8	1.04	327		4.5	4.4
	ES*			47.5		1.1					
WEL	IP*	05	10	36.0	U	-0.0	1.25	192	4.1	5.1	5.0
	ES*			53		0.2					
TRZ	PN	05	10	39.5		0.7	1.42	70		4.5	4.4
	EP*			41		2.1					
	E		11	09							
COB	PN	05	10	48.3		0.8	2.08	240		4.7	4.6
	EP*			50		-0.2					
	ES*		11	17		-0.6					
KRP	PN	05	10	48.0		-0.6	2.16	9		4.5	4.5
	EP*			50		-1.6					
	ESN		11	16		1.4					
	ES*			21		0.9					
WTZ	PN	05	10	54.2		0.2	2.54	36		3.8	
GNZ	PN	05	10	55.2		-0.5	2.67	59		4.4	
	EPG		11	07		-0.6					
KAI	EPG	05	11	29		0.2	3.72	227	4.1		
	E		12	02							
GPZ	E(P*)	05	11	27		2.7*	4.07	206	4.1		
	ESN		12	00		-1.0					
ONE	EPG	05	11	39		-1.9	4.32	352	4.0		
	ESG		12	40		0.9					

FELT WANGANUI (57) AND WAITARERE BEACH (65). MAXIMUM INTENSITY MM IV - V

H M S 72/ 199

APR 16 05 15 47.1 38.19S 175.91E 190 KM SE 1.0 AVG MAG 3.9

+- 0.9 0.04 0.04 7

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	05	16	12.5	U	-0.3	0.40	312			
	ES			32.5		-0.1					
WTZ	P	05	16	14.5		-0.6	0.87	77		3.5	3.4
	E			43							
CNZ	IP	05	16	17.8	D	1.5	1.05	196		3.7	3.7
	ES			43.5		4.6*					
TRZ	P	05	16	21.7		1.3	1.53	153		4.2	4.3
	ES			47.5		1.3					
TNZ	E	05	16	53			1.56	230			3.0
GNZ	IP	05	16	22.0	U	-0.3	1.72	106		4.3	4.4
	EP			23		0.7					
	ES			48		-1.4					
MNG	IP	05	16	30.0	D	-0.1	2.44	188		4.2	4.4
	ES		17	02		-1.3					
WEL	P	05	16	38.4		-1.0	3.21	196	4.3	3.9	4.1
	ES		17	20		0.3					
COB	EP	05	16	47		0.4	3.79	219		3.7	4.0
	ES		17	32		-0.5					

H M S 72/ 200

APR 16 15 54 34.8 40.23S 174.70E 12 KM SE 1.0 AVG MAG 3.8

+- 0.3 0.01 0.02 R

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	15	54	48.8	D	0.7	0.71	123		4.1	3.7
	ES*			57		-0.8					
WEL	P*	15	54	54.3	U	0.3	1.06	177	3.6	3.6	4.3
	ES*		55	07		-1.2					
	ESG			10		-0.6					
TNZ	P*	15	54	55.0		0.8	1.07	347		3.8	4.1
	ES*		55	08		-0.7					
	ESG			11		-0.1					
CNZ	IP*	15	54	55.7	D	-1.1	1.22	33		3.9	4.0
	ES*		55	10		-3.1*					
COB	EPN	15	55	04.5		0.4	1.72	240		4.1	3.8
	ESN			27		1.4					
TRZ	EP*	15	55	07		0.9	1.77	68		3.6	3.6
	ESG			36		1.6					

KRP	EPN	15 55 13		-0.1	2.39	16		3.3	3.6
	ESN	40		-1.5					

72/ 201

H M S

APR 16 18 05 14.6 49.31S 164.27E 33 KM SE 2.1 AVG MAG 4.0

+- 2.8 0.21 0.23 R

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WPZ	ES	18 07 01		2.2	4.06	51		4.6	4.3
MNW	EP	18 06 14		-1.4	4.20	34		4.1	3.8
	ES	07 01		-1.1					
ROX	EP	18 06 28		-0.3	5.15	44		4.0	4.0
	ES	07 22		-3.0					
MSZ	EP	18 06 31		1.0	5.27	30		3.8	3.5
	ES	07 30		2.0					
OMZ	EP?	18 06 43		0.5	6.21	49			
	E	08 06							

72/ 202

H M S

APR 16 21 57 18.7 42.05S 172.10E 12 KM SE 1.2 AVG MAG 3.6

+- 0.4 0.04 0.04 R

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	P*	21 57 32.4		0.6	0.70	227	3.4		
	S*	41.0		-0.4					
COB	EP*	21 57 38.2		0.0	1.07	27		3.8	4.1
	ES*	52		-0.7					
WEL	ES*	21 58 25		0.3	2.14	70	3.3		3.6
MNG	IPN	21 58 04.9	U	0.6	2.92	62		3.8	3.7
	EP*	08.5		-1.3					
	ES*	47		-1.2					
OMZ	EP*	21 58 12		-1.5	3.14	196		3.7	3.5
	ES*	56		1.3					
TNZ	E	21 58 54			3.35	32			3.2
CNZ	EP*	21 58 30.3		4.2*	3.87	44		3.8	3.9
	ES*	59 19		2.2					
MSZ	ESN	21 59 05		0.1	4.02	228			3.2

FELT MURCHISON (80) MM IV

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H M S

APR 18 02 03 30.6 37.66S 176.81E 12 KM SE 0.6 AVG MAG 4.6

+- 0.3 0.01 0.02 R

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP*	02 03 37.4		-0.3	0.35	156			
KRP	IP*	02 03 49.5	DNE	0.1	1.04	255		4.5	4.4
	ES*	04 03		-0.6					
TUA	P*	02 03 51.9		0.1	1.17	167		4.9	4.8
	ES*	04 07		-0.5					
GNZ	EPG	02 03 58.5		0.1	1.37	136		5.5	4.7
	ESG	04 20.5		3.7*					
GBZ	EP*	02 04 02		-0.4	1.79	323			
	ESG	31		-0.2					
AUC	EPG	02 04 08.5		1.2	1.81	296			
TRZ	P*	02 04 04.2		0.2	1.89	180		4.8	4.4
	EPG	08		-0.8					
	ES*	30		1.0					
MNG	EPN	02 04 19		0.1	3.13	199		4.1	
	EP*	25		-0.2					
	E	30							
	EPG	34		0.1					
COB	EPN	02 04 42.5		3.0*	4.65	221		3.9	

FELT MAKETU (26) MM IV

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H M S

APR 18 03 59 55.0 45.32S 167.38E 75 KM SE 2.3 AVG MAG 3.7

+- 2.9 0.09 0.15 20

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP	04 00 07.7	D	-0.8	0.49	160			
	ES	17		-1.7					
MSZ	P	04 00 11.5		0.2	0.76	31		3.8	4.0

	E		12.0							
	ES		24.5		0.9					
ROX	P	04 00	20.9		1.7	1.38	97		3.9	3.8
	ES		40		2.7					
OMZ	EP	04 00	35.5		0.8	2.51	86		3.8	3.7
	ES	01	05		0.4					
MJZ	ES	04 01	03		-3.2	2.58	60			3.1

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H M S									
APR 18	06 40 42.1	41.66S	174.39E	12 KM	SE 1.5		AVG MAG		4.1
	+- 0.4	0.04	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP*	06 40 52.2	D	1.1	0.47	37	3.8		
	ES*	41 00		2.3					
MNG	IPN	06 41 07.0	D	1.0	1.32	39		4.7	4.5
	ESN	23		-0.8					
COB	IPN	06 41 07.0	D	0.3	1.37	294		4.2	4.4
	SN	25.2		0.3					
KAI	EPG	06 41 28		-2.3	2.39	248	4.0		
	ESN	51		2.4					
TRZ	EPG	06 41 36		-2.7	2.80	42		4.2	4.1
	E	42 13							
TUA	EPG?	06 41 54		0.3	3.54	37		4.3	
MJZ	P*	06 41 48		1.3	3.71	230		3.8	3.7
	ESN	42 20		-0.8					
KRP	EP*	06 41 45		-3.7*	3.83	14		4.3	4.1
	E	55							
	ES*	42 38		-0.8					
GNZ	ESN	06 42 31		0.9	4.10	44			4.1
WTZ	EPG	06 42 05		-1.5	4.18	29		3.7	
OMZ	EPN.	06 41 45		-0.5	4.25	215		3.9	3.9
	ESN	42 34		0.2					
MSZ	E	06 42 10.5			5.61	235		3.8	3.7
	ESN	43 06		-0.6					

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H M S									
APR 20	11 36 26.2	44.98S	167.39E	33 KM	SE 1.1		AVG MAG		4.2
	+- 0.8	0.03	0.06	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IPN	11 36 37.9	U	1.8	0.49	51			
MNW	IPN	11 36 40.8	D	0.2	0.81	169		4.6	4.4
	ESN	51.5		0.3					
ROX	PN	11 36 49.7		0.4	1.45	111		3.8	4.1
	ESN	37 07		0.2					
MJZ	PN	11 37 02.3		-0.3	2.42	67		3.7	4.1
	ESN	31		0.8					
OMZ	PN	11 37 03.3		-0.5	2.50	93		4.5	4.4
	SN	30		-2.3					
KAI	E	11 37 27.5			3.81	51	4.1		
	ESN	38 09		4.8*					
COB	EPN	11 37 45		0.1	5.52	47		4.0	4.3
	ESN	38 45		-0.6					

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H M S									
APR 20	12 51 29.6	38.26S	178.29E	12 KM	SE 1.2		AVG MAG		4.0
	+- 0.7	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP*	12 51 40.3	D	2.2	0.43	238		*	
	ES*	45.0		0.8					
	E	50							
ECZ	IP*	12 51 41.1	U	0.1	0.60	20		4.4	4.3
	E	56.1							
	E	52 00							
TUA	EP*	12 51 48		-0.5	1.04	238		4.2	4.3
	PG	50.2		-0.6					
	S*	52 03.3		0.7					
	ESG	08		3.1*					
	E	14							

WTZ	EIP*	12 51 49.0	0.2	1.06	285		4.2	4.1
	S*	52 04	1.0					
TRZ	EPN	12 51 57	-1.8	1.72	221		3.9	3.8
	E	52 41						
CNZ	P*	12 52 10.8	0.2	2.34	246		3.8	3.8
	ESN	34	-0.9					
COB	E	12 52 53		5.13	235		3.8	3.8
	ESN	53 41	-1.5					

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	H	M	S									
APR 20	18	35	04.0	37.39S	176.14E	274 KM	SE	1.3	AVG MAG		3.9	
		+-	1.3	0.09	0.10	12						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	EP	18	35	41		-0.2	0.89	132		3.4	3.2
	ES		36	10		-0.4					
TUA	EP	18	35	46		0.1	1.62	151		4.3	
CNZ	P	18	35	49.2	D	1.6	1.86	194		3.7	3.3
	E		36	27							
GNZ	EP	18	35	48		-0.2	1.94	131		4.7	4.9
	ES		36	21		-1.6					
TRZ	P	18	35	51.2		0.5	2.22	166		4.0	3.9
	S		36	29.4		2.3					
MNG							3.26	189		4.2	4.0
WEL	P	18	36	10.0		0.3	4.03	195		4.0	3.8
	ES		37	00		-1.0					
COB	EP	18	36	15		-0.6	4.54	215		3.8	3.9
	ES		37	11		-0.6					

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	H	M	S									
APR 20	19	07	05.6	41.90S	171.75E	12 KM	SE	0.9	AVG MAG		3.3	
		+-	0.6	0.05	0.06	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	EP*	19	07	18.0		-0.1	0.67	202	3.3		
	ES*			27		-0.4					
COB	P*	19	07	25.2		-0.2	1.10	43		3.8	3.8
	ES*			41		0.7					
MJZ	EPN	19	07	42		-0.3	2.29	204		3.2	3.1
	ESN		08	11		1.3					
MNG	EP*	19	07	59		-0.6	3.09	67		3.3	3.0
	EPG		08	07		-1.1					
	ES*			41		0.8					

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	H	M	S									
APR 20	23	26	58.4	41.73S	173.70E	12 KM	SE	1.5	AVG MAG		3.9	
		+-	0.5	0.04	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P*	23	27	16.3		1.0	0.92	61	3.8	4.1	4.4
	ESG			31		1.3					
COB	IP*	23	27	17.5		1.4	0.97	311			
	ES*			29		-0.2					
MNG	PN	23	27	27.5		-0.5	1.75	51		4.2	4.2
	P*			29.8		0.4					
	E			31							
	ESN			48		-1.7					
	ESG			56		-1.5					
KAI	EP*	23	27	33		1.3	1.88	244	4.0		
	ES*			56.5		-0.0					
TNZ	ESN	23	28	08		-2.5	2.60	12		3.9	3.7
CNZ	P*	23	27	47		-2.1	2.90	30		4.3	4.3
	E			54							
	ES*		28	28		0.8					
MJZ	EP*	23	27	56		0.4	3.27	225		3.5	3.7
	ESN		28	25		-1.6					
KRP	PN	23	28	03.1		3.8*	4.06	21		3.8	3.7
	E			51							
WTZ	EP*	23	28	19		2.1	4.52	35		3.7	3.6
	ESN			58		1.3					

	H M S								72/ 211
APR 21	16 32 25.9	49.78S	163.92E	33 KM	SE	2.3	AVG MAG		4.2
	+- 3.1	0.26	0.44	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW PN	16 33 32		-1.7	4.71	33		4.5	4.1
	SN	34 26		0.3					
	MSZ PN	16 33 48		-0.2	5.79	30		4.2	4.1
	SN	34 53		1.3					
	OMZ PN	16 33 59		-1.3	6.68	48			
	MJZ ESN	16 35 27		-1.4	7.32	40			
	COB PN	16 34 52		-1.2	10.66	39			
	MNG PN	16 35 18		4.2	12.25	46			

	H M S								72/ 212
APR 22	00 47 58.7	38.17S	176.21E	208 KM	SE	1.3	AVG MAG		4.5
	+- 0.9	0.05	0.04	6					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP IP	00 48 27.5	UW	0.3	0.58	295			
	S	48		-1.2					
	WTZ P	00 48 26.3	D	-1.2	0.65	74		4.4	4.2
	E	43							
	S	46		-3.7*					
	TUA P?	00 48 29		-0.3	0.98	131		4.2	4.8
	S	51		-2.0					
	CNZ IP	00 48 31.5		1.0	1.15	206		4.5	3.9
	ES	57		1.8					
	E	49 02							
	TRZ IP	00 48 34.9	U	1.9	1.46	161		4.8	4.8
	S	49 01		1.4					
	GNZ IP	00 48 33.9	D	0.5	1.50	109		5.3	5.2
	S	58.5		-1.8					
	TNZ P	00 48 37		1.3	1.75	234		3.4	
	ECZ P	00 48 37.5	D	0.2	1.91	76		5.1	4.2
	S	49 07.5		0.5					
	MNG IP	00 48 44.5	U	0.9	2.51	193		4.7	4.6
	S	49 18.5		0.1					
	WEL IP	00 48 53.2	D	0.3	3.30	199	4.4	4.7	4.6
	S	49 34		-0.8					
	COB P	00 49 00.0		-0.9	3.96	222		3.9	4.5
	S	49		0.0					
	MJZ S	00 51 02		-2.4	7.25	215			

	H M S								72/ 213
APR 22	06 50 46.1	36.10S	178.71E	33 KM	SE	1.5	AVG MAG		5.2
	+- 0.8	0.04	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ IP*	06 51 16		1.2	1.60	185			
	S*	44		7.9*					
	WTZ IPN	06 51 20.7	D	-0.6	2.33	216			
	S*	55.5		-2.6					
	GNZ PN	06 51 24.8		-0.2	2.60	192			
	SN	55		0.5					
	GBZ PN	06 51 25		-0.2	2.62	266			
	TUA PN	06 51 30.5		0.3	2.97	204			
	SN	52 06		2.3					
	KRP IPN	06 51 32.8	DE	0.6	3.13	233			
	E	38							
	ISN	52 06.5		-0.9					
	ONE PN	06 51 39		1.1	3.54	274			
	TRZ PN	06 51 40		-0.8	3.76	203			
	EP*	50		-1.7					
	SN	52 24		1.2					
	ES*	41		0.1					
	CNZ E	06 51 46.5			3.98	218			
	E	52 41							
	TNZ PN	06 51 55		2.4	4.62	227			
	MNG PN	06 51 57		-3.1	5.18	208			

	E		52 08						
	SN		59		1.9				
	E		53 15						
CRZ	PN	06	52 02		1.4	5.21	287		
WEL	E	06	52 21			6.03	210	5.3	
	SN		53 12		-5.6*				
	E		37						
COB	PN	06	52 21		-1.5	6.83	221		
	E		43						
	SN		53 37		0.1				
	E		41						
KAI						8.55	219	5.1	
CIZ	E	06	54 08			8.64	157		
	SN		20		-0.1				
MJZ	SN	06	54 53		-1.6	10.09	216		

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APR 23 — H M S 20 10 28.5 +- 0.4 — 43.78S +- 0.03 — 169.62E +- 0.03 — 12 KM R — SE 1.6 — AVG MAG 4.4

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MJZ	PG	20	10	42.3	DSW	0.8	0.64	109		4.3	4.3
	SG			51.3		0.9					
MSZ	P*	20	10	57		1.4	1.52	233			
	PG		11	01		1.7					
	SG			18		-1.9					
OMZ	PG	20	11	00.0		-0.8	1.59	145		4.8	4.8
	ESG			21		-1.3					
ROX							1.71	187		4.8	4.6
KAI	P*	20	11	02.3		2.0	1.81	47			
	PG			05		-0.1					
	S*			23		-1.5					
MNW	P*	20	11	11		-0.7	2.46	215		4.3	4.4
	ES*			46		1.8					
	SG			51		-0.6					
COB	PN	20	11	21		-1.3	3.54	42		4.5	4.6
	ESN		12	00		-3.0					
	ES*			19		2.5					
WEL	SN	20	12	27		-0.3	4.54	59	4.0		4.1
MNG	PN	20	11	46		-1.0	5.37	56		4.5	3.9
	ESN		12	50		2.7					
TNZ	EPN	20	11	52		-0.8	5.81	40		4.2	
KRP	PN	20	12	14		0.3	7.36	39			
	SN		13	34		-0.8					
	SG		14	31		-5.7*					

FELT MAHITAHI (104) MM IV

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APR 24 — H M S 02 49 49.9 +- 2.0 — 33.30S +- 0.11 — 178.13W +- 0.15 — 33 KM R — SE 3.0 — AVG MAG 5.8

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	02	51	06		2.3	5.16	211		5.7	
	ET		57	00							
WTZ	PN	02	51	14.3		-2.4	6.14	219			
	P*			32		-4.2					
GNZ	PN	02	51	16.5		-1.0	6.18	209			
	P*			41		4.1					
	ES*		52	54		-3.4					
ONE	EPN	02	51	30		5.8	6.67	246			
TUA	PN	02	51	24		-0.5	6.69	213			
	SN		52	41		3.6					
KRP	PN	02	51	27		-0.5	6.92	226			
TRZ	PN	02	51	34		-0.6	7.45	212			
CRZ	PN	02	51	38.5		0.2	7.73	259			
TNZ							8.43	224			
MNG	PN	02	51	53		-1.1	8.91	213			
	SN		53	31		0.5					
	S*		54	25		5.4					
WEL	P*	02	52	33		-5.4	9.77	213	5.9		

		SN		53 48		-2.9				
		L		55 00						
	COB	PN	02	52 18.5		1.4	10.65	221		
		SN		54 10.5		-1.0				
	CIZ	SN	02	54 15		2.2	10.71	174		
	MJZ	PN	02	52 58		-0.7	13.89	216		
		SN		55 24		-2.5				
		E		27						
	MSZ	PN	02	53 21		-0.1	15.68	220		
		SN		56 08		1.0				

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	H	M	S									
APR 24	09	02	19.2	38.48S	176.25E	142 KM	SE	1.8	AVG MAG	4.4		
		+-	1.0	0.05	0.04	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	(P)		09	02	37		-1.7	0.20	219			
	WTZ	IP		09	02	40.5		-0.9	0.75	50			
		S				56.5		-2.0					
	TUA	P		09	02	42		0.5	0.77	116		4.4	4.6
		ES				58		-0.7					
	KRP	IP		09	02	41.3	UNW	-0.4	0.79	314			
		IS				56.0		-3.0					
	CNZ	P		09	02	43.5		1.0	0.91	217		4.1	4.1
		ES			03	01.5		0.8					
	TRZ	P		09	02	47		2.0	1.16	158		4.6	4.7
		S			03	06.5		1.8					
	GNZ	IP		09	02	48.4	D	1.0	1.39	97		5.1	5.2
		S			03	08		-0.9					
	TNZ	P		09	02	52		2.0	1.63	244		3.6	3.4
		S			03	17		3.5					
	ECZ	P		09	02	55		1.3	1.96	67		4.6	4.5
		S			03	23		2.7					
	MNG	IP		09	02	57.5	U	0.6	2.22	196		4.6	4.5
		S			03	25		-0.9					
	WEL	P		09	03	07.2		-0.2	3.03	202		4.1	4.8
		S			43			-1.2					
	COB	P		09	03	16.0		-1.1	3.77	225		4.1	4.3
		S			04	00		-1.5					
	MJZ	S		09	05	13		-6.5*	7.03	217			
	CIZ	S		09	05	33		-2.5	7.69	138			
	OMZ	S		09	05	30		-5.8*	7.70	210			

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	H	M	S									
APR 24	09	29	22.9	40.51S	179.84W	33 KM	SE	2.0	AVG MAG	4.4		
		+-	1.3	0.05	0.07	9						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	PN		09	29	59		-1.3	2.49	318		4.7	4.6
		P*			30	06		-0.8					
		SN				28		-0.7					
	TRZ	PN		09	30	04.5		0.8	2.73	289		4.3	4.4
		P*				12		1.0					
		E				29							
		SN				35.5		0.9					
	TUA	PN		09	30	05.5		-0.1	2.88	305		4.8	4.6
		P*				12		-1.4					
		E				33.5							
		SN				38		-0.1					
	ECZ	PN		09	30	08		-0.4	3.08	335		4.4	3.9
		ESN				45		1.9					
	WTZ	PN		09	30	14		-0.5	3.52	315		4.5	3.8
		P*				20.5		-4.0					
		SN				53		-0.9					
	MNG	PN		09	30	15.3	D	0.3	3.56	267		4.2	4.5
		P*				23		-2.2					
		SN				52		-2.9					
	CNZ	PN		09	30	20		2.0	3.78	289		4.4	4.5
		P*				26		-2.9					
		SN			31	00		-0.2					

	WEL	PN	09	30	23.3	0.4	4.16	257	4.4	4.3	4.5
		P*			32	-3.3					
		SN		31	09	-0.3					
	CIZ	E	09	30	34		4.22	146		4.5	4.8
		SN		31	19	8.3*					
		I			21						
	KRP	PN	09	30	28	1.3	4.42	304			
		P*			42	2.2					
		ESN		31	20	4.3					
	COB	PN	09	30	45	1.5	5.66	262		3.9	4.1
		SN		31	48	2.3					
	MJZ	PN	09	31	17	2.3	7.98	241			
		SN		32	42	0.8					

	H	M	S								72/ 218
APR 24	20	35	28.5	41.35S	174.89E	33 KM	SE 1.4		AVG MAG		4.0
		+-	0.3	0.02	0.03	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP*	20	35	37.2	U	3.1	0.10	307	3.4		
		S*			43		4.9*					
	MNG	IP*	20	35	44.8	D	-0.3	0.86	32		4.3	4.1
		S*			56		-1.0					
	COB	IPN	20	35	54.4	U	0.2	1.64	278		4.3	4.7
		SN		36	13.5		-0.1					
	TNZ	P*	20	36	06.5		-0.9	2.19	350		3.8	4.1
		SN			29		2.0					
	CNZ	PN	20	36	03		1.0	2.21	14		4.5	4.6
		E			14							
		SN			29		1.6					
	TRZ	P*	20	36	12		2.3	2.33	40		3.8	3.7
		SN			34.5		4.1*					
	KAI	PN	20	36	11		0.2	2.84	244	3.9		
		E			15							
		SN			42.5		-0.4					
	KRP	PN	20	36	19		-0.2	3.46	9			
		P*			30		1.0					
		SN			57		-0.9					
		S*		37	12		-2.3					
	GNZ	PN	20	36	20		-1.5	3.62	43		4.0	4.0
		SN		37	03		1.0					
	WTZ	PN	20	36	21		-2.0	3.73	27		3.7	3.2
		SN		37	03		-1.7					
	MJZ	PN	20	36	29		-0.2	4.19	229		4.0	3.2
		SN		37	15		-0.7					
	OMZ	PN	20	36	36		-0.3	4.71	217		4.1	
	MSZ	SN	20	38	02		0.5	6.09	235			
	CIZ	(PN)	20	37	07		2.1	6.83	115			
		SN		38	18		-1.2					
	MNW	ESN	20	38	19		-1.6	6.88	228			

FELT TAWA (68) MM IV

	H	M	S								72/ 219
APR 24	22	35	54.5	50.20S	165.00E	33 KM	SE 1.5		AVG MAG		4.6
		+-	1.7	0.09	0.09	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	PN	22	37	02.0		-0.9	4.76	23		4.8	4.5
		SN			54		-1.4					
	MSZ	PN	22	37	17		-0.9	5.87	21		4.7	4.5
		ESN		38	22		-0.3					
	OMZ	PN	22	37	29		2.6	6.50	40			
		SN		38	36		-1.4					
		E			53							
	MJZ	PN	22	37	35		-1.4	7.25	33			
		SN		38	56		0.9					
	KAI	ESN	22	39	35		1.3	8.86	32	4.7		
	COB	PN	22	38	22		1.1	10.59	34			
		SN		40	16		1.3					
	CIZ	E	22	39	18			14.11	71			

		SN		41 33			-0.9					
		E		54								
	H M S											72/ 220
APR 25	07 12 39.9		40.90S	173.02E		12 KM	SE	1.7	AVG MAG			3.6
	+- 0.5		0.03	0.03		R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	COB	IPG	07 12 43.8			-2.3	0.28	230				
	WEL	IPG	07 13 07.8			0.0	1.37	107		3.9	4.0	
		SG		27.5		1.1						
	MNG	PG	07 13 16.5			-1.7	1.89	82		3.8	3.8	
		SG		42.5		-1.2						
	TNZ	PG	07 13 20			-0.6	2.01	32		3.3	3.3	
		SG		49		1.3						
	KAI	ES*	07 13 41			-1.3	2.02	216	3.3			
	CNZ	P*	07 13 25			-0.1	2.58	50		3.9	4.0	
		PG		32		-0.1						
		SG		14 05		-1.9						
	TRZ	PG	07 13 48			3.2	3.21	66				
	KRP	P*	07 13 43			1.1	3.56	34				
		S*		14 28		-0.5						
	MJZ	SN	07 14 17			0.7	3.61	211		3.1	2.9	
	MSZ	ESN	07 14 59.5			2.2	5.32	223			3.3	
	FELT COBB RIVER (75) MM IV											
	H M S											72/ 221
APR 25	11 57 40.3		37.54S	176.62E		235 KM	SE	1.2	AVG MAG			4.1
	+- 1.0		0.06	0.03		7						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ	P	11 58 10.3			-1.3	0.53	147		3.5	3.6	
		E		31.5								
		S		35		-1.0						
	KRP	P	11 58 13			-0.5	0.94	246				
		S		39.5		0.1						
	TUA	P	11 58 17			0.8	1.33	162		4.0	4.2	
		S		43.5		-0.4						
	ECZ	P	11 58 17			-0.7	1.53	96		4.4	4.4	
		E		42								
		S		48		1.4						
	GNZ	P	11 58 17.9		U	-0.0	1.56	135		5.0	4.9	
		S		46		-1.0						
	TRZ	P	11 58 23			1.1	2.02	176		3.9	4.3	
		S		59		4.8*						
	TNZ	EP	11 58 28			2.1	2.41	226		3.5		
	MNG	IP	11 58 34.5		D	-0.0	3.20	196		4.2	4.2	
		E		59 10								
		S		18		1.3						
	WEL	P	11 58 44			-0.0	4.01	200	4.0	3.9	4.3	
		S		59 34		0.5						
	COB	E	11 58 53				4.65	219		3.5	4.1	
		S		59 48		0.4						
	MJZ	S	12 01 00			-2.5	7.96	214				
	H M S											72/ 222
APR 29	03 51 40.9		38.89S	176.55E		12 KM	SE	2.1	AVG MAG			4.1
	+- 0.4		0.03	0.02		R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ	ESG	03 51 56			0.1	0.43	306				
		E		52 04								
	TUA	IPG	03 51 51.5			0.7	0.48	81				
	TRZ	IPG	03 51 56.3		U	1.1	0.70	162				
	CNZ	IPG	03 51 58.6		D	0.6	0.84	248		4.3	4.2	
		ESG		52 13		3.6						
	WTZ	IP*	03 51 57.8		U	-0.7	0.96	21		3.8	4.3	
		S*		52 10		-1.5						
	GNZ	P*	03 52 00.5			-1.6	1.18	79		4.5	4.5	
		S*		15		-3.0						
		ESG		25		4.2						

	KRP	IP*	03 52 03.1	U	-0.2	1.24	320				
		S*	20		0.0						
	TNZ	P*	03 52 11.5		0.2	1.71	259		3.5	3.2	
		S*	34		-0.1						
	MNG	PN	03 52 11.0		-1.6	1.92	205		4.3	4.2	
		PG	17		-2.7						
		ESG	45		-0.5						
	ECZ	PN	03 52 12		-1.4	1.97	54		4.3	4.2	
		SG	50		2.5						
	WEL	E	03 52 28			2.76	209	3.9	4.1	4.4	
		P*	32		2.8						
		SN	54.5		-2.4						
		S*	53 08		2.5						
	MJZ	SN	03 54 32		-2.7	6.84	220				
	CIZ	E(PN)	03 53 24.5		0.1	7.24	137				
		SN	54 38		-5.2*						
	MSZ	E	03 53 48.5			8.66	225				

	H M S									72/ 223
APR 29	11 43 33.5	36.98S	179.88W	33 KM	SE	1.8	AVG MAG			4.1
	+- 1.6	0.09	0.05	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ	P*	11 43 59		-0.6	1.44	240		4.5	4.5
		SN	44 13		-0.9					
		S*	21		2.0					
	GNZ	PN	11 44 09		0.0	2.35	224		4.1	4.4
		E	12							
		SN	37		1.1					
	WTZ	PN	11 44 14.5	D	1.0	2.69	247		4.2	4.1
		E	18							
		ESN	44		-0.1					
	TRZ	PN	11 44 27		0.2	3.65	224		4.0	4.0
		P*	38		0.7					
		SN	45 09		1.3					
	KRP	PN	11 44 29		0.6	3.77	254			
		ESN	45 09		-1.5					
	CNZ	SN	11 45 25		3.2	4.24	237		4.0	3.9
	MNG	PN	11 44 45		-2.0	5.13	223		3.7	3.6
		SN	45 40.5		-3.0					
	WEL	SN	11 46 01		-3.0	5.98	222	4.4		3.9
	CIZ	SN	11 46 39		0.9	7.41	161			
	MJZ	SN	11 47 38.5		-4.8*	10.15	223			

	H M S									72/ 224
APR 30	16 08 47.9	37.73S	176.42E	209 KM	SE	1.4	AVG MAG			4.8
	+- 0.6	0.03	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ	IP	16 09 15.0	D	-1.2	0.52	119		4.8	4.4
		ES	36.5		-1.5					
	KRP	IP	16 09 17.9	UW	0.8	0.72	254			
		S	39.5		-0.2					
	TUA	P	16 09 20.5		0.2	1.22	152			
	GNZ	IP	16 09 23.3	DSW	0.2	1.56	126		5.7	5.7
		S	47.5		-2.9					
	AUC	IP	16 09 24.0	U	0.8	1.57	303			
	CNZ	P	16 09 25.5		1.8	1.62	205		4.5	4.5
	GBZ	P	16 09 23.8	U	-0.5	1.69	333			
	ECZ	P	16 09 24.3	D	-0.0	1.69	89		5.7	5.1
		I	24.7							
		S	54		1.5					
	TRZ	P	16 09 27.5		1.6	1.85	170			
	TNZ	P	16 09 32.5		3.5	2.16	227		3.9	3.6
		E	10 06							
		S	08		7.2*					
	ONE	P	16 09 34		0.6	2.56	319	3.8		
		ES	10 07		-1.6					
	MNG	IP	16 09 39.2	D	1.0	2.97	194		5.1	4.9
		S	10 17		-0.2					

	WEL	IP	16 09 48.1	U	0.3	3.77	199	5.2	5.1		5.1
		S	10 34		-0.1						
	COB	P	16 09 55		-0.6	4.40	219		4.8		
		ES	10 50		1.9						
	CRZ	P	16 09 56.5		0.0	4.47	316		4.7		
	KAI	S	16 11 28		0.3	6.14	217	5.1			
	MJZ	EP	16 10 37		-1.1	7.70	214				
		S	12 02		-2.2						
	CIZ	S	16 12 16		0.8	8.18	142				
	MSZ	EP	16 10 59		-1.5	9.43	220				
		S	12 43		-1.3						
	MNW	EP	16 11 12		-0.7	10.38	216				
		ES	13 06.5		0.3						

	H	M	S							72/ 225
MAY 01	00	54	20.4	40.46S	175.50E	100 KM	SE	1.8	AVG MAG	5.2
	+-		0.4	0.03	0.04	6				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP	00	54	34.4	USW	-0.2	0.16	184			
	IS			42		-3.4					
CAZ	IP	00	54	40.5	U	2.4	0.71	129			
WEL	IP	00	54	43.5	U	2.6	0.99	214	5.3		
	S			57.5		1.0					
CNZ	IP	00	54	44.4	U	0.1	1.26	2			
TRZ	IP	00	54	46		0.5	1.36	49			
TNZ	IP	00	54	48.9	U	1.3	1.53	326		5.4	
	S		55	08		0.0					
WNZ	E	00	54	56			1.89	15		5.3	5.5
	E		55	16							
TUA	P	00	54	54.3	D	-0.3	2.09	38			
COB	IP	00	54	58.1	D	2.1	2.19	252			
	S		55	25		2.5					
KRP	IP	00	55	00.6	UN	-0.1	2.53	1			
GNZ	P	00	55	01.9	D	-0.7	2.67	48		5.3	5.5
	S			32.5		-1.7					
WTZ	P	00	55	02.3	D	-1.2	2.73	26		4.7	
	ES			32.5		-3.3					
AUC	IP	00	55	16.9		1.0	3.64	351			
ECZ	P	00	55	15		-0.9	3.64	42		5.1	5.3
	E			49							
	S			59		0.9					
KAI	S	00	56	00		0.6	3.70	235			
ONE	P	00	55	33		1.8	4.76	349	4.9		
MJZ	P	00	55	37		0.7	5.13	225		4.9	5.3
	S		56	34		-0.8					
OHZ	P	00	55	45.5		1.5	5.71	215		5.0	5.4
	S		56	47		-1.9					
CRZ	P	00	55	55		1.1	6.42	339			
	ES		57	05		-1.3					
ROX	S	00	57	12.5		-2.0	6.75	220			
CIZ	P	00	56	02.5	U	2.7	6.85	123			
	S		57	12.5		-4.3*					
MSZ	P	00	56	02		0.1	7.00	231			
	S		57	17.5		-3.0					
MNW	IS	00	57	40		-1.0	7.84	225			
	I			43							
WPZ	ES	00	57	40		-1.4	7.85	216			

FELT TARANAKI, HAWKES BAY AND WELLINGTON PROVINCES. INTENSITY MM V IN S. TARANAKI AND CENTRAL NORTH ISLAND

	H	M	S							72/ 226
MAY 01	10	34	41.1	33.21S	177.66W	12 KM	SE	4.0	AVG MAG	5.4
	+-		2.8	0.13	0.21	8				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	10	35	41		0.5	5.44	214		5.4	5.1
	E		36	01							
	E			54							
	ET		41	26							

	GNZ	PN	10	35	54.5	0.4	6.45	212		
		SN		37	08	2.3				
		ESG		38	06	7.4				
	WTZ	PN	10	35	51.5	-2.6	6.46	221		
		E		37	06.5					
	TUA	PN	10	36	01	-0.3	6.99	216		
		E		37	23					
	ONE	EPN	10	36	04	1.6	7.07	247		
	AUC	E	10	36	17		7.19	238		
	TRZ	PN	10	36	12	0.8	7.73	214		
	CRZ	PN	10	36	19	2.5	8.13	259		
		P*			47	5.6				
	TNZ	EPN	10	36	30	5.1	8.77	225		
	MNG	PN	10	36	28	-2.6	9.20	215		
		PG		37	29	1.8				
		SN		38	08	-3.1				
	WEL	P*	10	37	09	-5.5	10.06	215	5.6	
		SN		38	27	-4.2				
		EL		40	00					
	CIZ	E	10	37	11		10.76	176		
		SN		38	52	4.6				
	COB	EPN	10	36	49.5	-4.3	10.97	222		
		SN		38	48	-4.5				
	MJZ	SN	10	40	01	-5.6	14.19	217		
	MSZ	EPN	10	37	55	-2.1	16.00	220		
	MNW	EPN	10	38	10	2.1	16.89	218		

	H	M	S									72/ 227
MAY 01	20	58	34.7	36.60S		177.94E	225 KM	SE	1.3	AVG MAG		4.4
		+-	1.0	0.05		0.05	7					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	ECZ		P	20	59	08	-0.5	1.19	156		4.6	4.3
			S			34	-0.8					
	WTZ		P	20	59	10	-1.6	1.58	209		4.3	3.9
			ES			38	-2.1					
			E			41						
	GNZ		IP	20	59	16.5	0.7	2.04	178		5.4	4.7
			S			49	1.4					
	TUA		P	20	59	19.3	1.0	2.29	196		4.7	4.4
			S			53	0.9					
	KRP		P	20	59	19.5	0.8	2.33	235			
			S			53	0.2					
	ONE		EP	20	59	26.5	0.3	3.01	285			
	TRZ		P	20	59	28	1.0	3.08	196			
	CNZ		P	20	59	30	1.4	3.21	215		4.5	
	TNZ		E	20	59	38.5		3.82	226		3.7	
	MNG		P	20	59	43.0	-0.5	4.45	205		4.6	4.2
			S	21	00	37	0.1					
	WEL		P	20	59	53	-1.0	5.29	207	4.6	4.3	4.3
			S	21	00	55.5	-0.3					
	COB		EP	21	00	03	-0.6	6.05	221			
			E		01	12						
			S			15	2.1					
	MJZ		S	21	02	26	-2.3	9.32	215			

	H	M	S									72/ 228
MAY 03	08	42	08.3	43.47S		171.53E	12 KM	SE	1.7	AVG MAG		3.4
		+-	0.4	0.02		0.03	R					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	GPZ		PG	08	42	24.5	-0.9	0.84	106	3.1		
			SG			35	1.1					
	MJZ		P*	08	42	24.3	-0.9	0.93	236		3.8	3.5
			PG			26	-1.2					
			S*			36	-1.8					
			SG			39	-0.8					
	KAI		PG	08	42	26	-1.5	0.95	355	2.6		
			S*			37	-1.4					
			SG			42	1.5					

	COB	PN	08 42 48		-0.7	2.54	21		3.4	3.4
		P*	54		1.2					
		SN	43 20.5		1.5					
		S*	28		1.7					
	ROX	EPG	08 42 59		-1.0	2.55	217		3.3	3.5
		ES*	43 30		3.3					
	MSZ	PN	08 42 52.5		-0.6	2.87	244		3.7	3.5
		P*	43 00		1.6					
		S*	38		1.9					
	MNG	PN	08 43 08		-1.6	4.10	47		3.2	
		P*	17		-2.4					
		ESN	57		0.7					

FELT LAKE COLERIDGE (100) MM IV

	H M S								72/ 229
MAY 05	03 47 07.4	36.28S	178.19E	12 KM	SE 1.9		AVG MAG		4.1
	+- 1.9	0.08	0.09	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP*	03 47 34		1.0	1.44	169		4.3	4.2
		S*	50		-2.2					
		E	48 01							
	WTZ	P*	03 47 43		1.2	1.95	209		4.0	3.7
		EPG	47		0.1					
		S*	48 07		-0.6					
		E	15							
	GNZ	EP*	03 47 50		1.2	2.36	183		4.5	4.3
		S*	48 20		0.1					
	KRP	PN	03 47 47.5		-2.2	2.68	232			
	CNZ	EP*	03 48 08		-1.8	3.59	215			3.9
		IPG	18.5		-1.4					
	HNG	EPN	03 48 20		1.5	4.82	205			
		ESN	49 16		3.1					

	H M S								72/ 230
MAY 05	07 44 53.2	41.31S	174.68E	33 KM	SE 1.2		AVG MAG		4.2
	+- 0.4	0.02	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP*	07 44 58.9	U	0.2	0.07	72			
		S*	45 02.3		-0.1					
	MNG	IPN	07 45 08.4	D	-0.7	0.92	42		4.5	4.4
		SN	19.3		-1.3					
	COB	P*	07 45 19.3	U	-0.8	1.49	278		4.3	4.5
		S*	40.3		0.5					
		E	45							
	TNZ	EP*	07 45 30		-1.0	2.13	354			
		S*	58		-1.3					
		E	46 03							
	CNZ	PN	07 45 27.4		0.6	2.21	18		4.4	4.6
		E	30.1							
		P*	33.9		1.6					
		E	57.5							
		S*	46 02		0.5					
	KAI	ESN	07 46 03		-1.9	2.73	242			
		ES*	18		0.8					
	GPZ	ESN	07 46 07		-0.2	2.82	212	3.6		
	KRP	EP*	07 45 52		-1.4	3.44	11		3.9	4.0
		E	46 35							
		ES*	41		2.4					
	MJZ	EPN	07 45 54.5		1.8	4.10	228			
		SN	46 38		-0.4					
		S*	59		0.6					

FELT UPPER AND LOWER HUTT AND WELLINGTON (68) MM IV

	H M S								72/ 231
MAY 06	06 44 42.1	41.39S	172.34E	12 KM	SE 1.3		AVG MAG		4.1
	+- 0.4	0.04	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB	IP*.	06 44 46.5		-4.0*	0.43	45			

		E			51						
	KAI	EP*		06	45 06		0.1	1.33	211	3.7	
		E			21						
		S*			24		0.4				
		SG			28		1.0				
	WEL	PN		06	45 11.9		-0.9	1.83	87	3.7	4.1 4.4
		SN			36		0.6				
	MNG	PN		06	45 22		-0.0	2.50	73		4.1 4.0
		ESN			52		0.0				
		S*			58.3		-0.7				
	MJZ	EPN		06	45 28		0.1	2.94	207		
		ESN			46 03		0.6				
	CNZ	PN		06	45 33		0.4	3.29	49		4.3 4.3
		EP*			40		0.5				
		S*			46 20		-2.7				
		E			28						
		EPG			45 49		0.3				
	KRP	EPN		06	45 44		-1.5	4.25	37		
		SN			46 35		1.1				
		S*			54		2.4				
	MSZ	SN		06	46 40		-2.4	4.61	223		

	H	M	S								72/ 232
MAY 06	09	48	49.9	37.99S		176.06E	219 KM	SE	0.7	AVG MAG	4.0
		+-	1.3	0.06		0.06	12				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		P	09	49	19.5		0.5	0.42	279			
	WTZ		P	09	49	19.4	D	-0.8	0.73	90			
	GNZ		P	09	49	27.2		0.2	1.67	113		4.3	4.2
			S			56		0.2					
	MNG		IP	09	49	37.3	D	0.2	2.66	190		4.0	3.6
			S			50 13.5		-0.2					

	H	M	S								72/ 233
MAY 06	22	58	01.3	33.53S		179.82W	429 KM	SE	1.2	AVG MAG	4.7
		+-	2.2	0.26		0.34	33				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP	22	59	25.6	U	-1.3	5.15	209		4.8	4.0
			ES	23	00	34		-0.3					
	GNZ		P	22	59	30		0.5	5.40	198		5.1	4.6
			S	23	00	39		0.2					
	KRP		P	22	59	34		0.5	5.79	219			
	CNZ		IP	22	59	45.3	U	1.1	6.78	212			
	MNG		EP	22	59	57		-0.8	8.01	207			
			E	23	01	36							
	WEL		E	23	00	09			8.86	207			

	H	M	S								72/ 234
MAY 07	07	50	43.7	36.76S		178.15E	157 KM	SE	0.2	AVG MAG	4.0
		+-	0.3	0.02		0.02	2				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP	07	51	14.6	U	0.2	1.54	217		4.2	4.0
			S			38		-0.1					
	GNZ		P	07	51	18		-0.2	1.89	183		4.4	4.5
			S			45		0.1					
	MNG		EP	07	51	50		0.1	4.39	208		3.4	3.8
			S			52 41		-0.0					

	H	M	S								72/ 235
MAY 07	10	00	03.3	37.51S		178.29E	118 KM	SE	0.8	AVG MAG	3.9
		+-	1.2	0.06		0.05	7				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		P	10	00	27.2		0.3	1.14	245		3.8	3.7
			E			33.7							
			S			44		-0.9					
	GNZ		IP	10	00	27.1		-0.1	1.16	190		4.2	4.2
			S			45		-0.3					
	TUA		ES	10	00	55		1.3	1.58	214			4.3

	KRP	S	10 01 08			0.3	2.22	258				
	MNG	EP	10 01 01			-0.2	3.80	214				3.4
		ES		45		-0.4						

	H M S									72/ 236
MAY 07	15 20 06.6	32.91S	179.58E	434 KM	SE	0.2	AVG MAG	4.4		
	+- 0.4	0.04	0.09	4						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ EP	15 21 36		0.1	5.49	202		4.1	4.0	
	ES	22 46		-0.1						
	GNZ E	15 21 43.5			5.86	192		4.8	4.8	
	S	22 53		0.0						
	MNG EP	15 22 07		-0.1	8.37	202				
	S	23 42.5		0.1						

	H M S									72/ 237
MAY 09	01 12 50.8	38.53S	175.82E	180 KM	SE	1.5	AVG MAG	4.3		
	+- 1.3	0.05	0.03	10						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P	01 13 17.0	U	0.5	0.65	340				
	S	36.5		0.3						
	CNZ IP	01 13 18.3	U	1.5	0.70	198		4.1		
	WTZ P	01 13 18.4		-0.8	1.07	60				
	ES	39		-2.2						
	TUA S	01 13 41		-0.3	1.08	105			4.4	
	TRZ P	01 13 22.7		1.6	1.28	143		4.5	4.3	
	S	47		2.6						
	TNZ P	01 13 22.5		1.3	1.30	239				
	GNZ P	01 13 25.3		0.1	1.73	94		4.6	4.4	
	S	51		-1.0						
	MNG IP	01 13 29.6	U	0.2	2.10	187		4.4	3.7	
	S	57.5		-1.5						
	WEL P	01 13 38.2		-0.4	2.87	196	3.9	4.4	4.1	
	S	14 15		-0.3						
	COB E	01 13 55			3.49	222			4.1	
	S	14 27		-1.8						
	MJZ ES	01 15 39.5		-3.8*	6.78	215				

	H M S									72/ 238
MAY 09	13 08 55.5	33.43S	178.24W	33 KM	SE	0.8	AVG MAG	4.1		
	+- 1.1	0.10	0.17	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ P	13 10 19.5		-0.8	5.97	219		4.2	4.0	
	S	11 25		-0.8						
	GNZ P	13 10 21		0.1	6.02	209				
	S	11 27		0.2						
	TUA P	13 10 27.5		-0.4	6.53	213				
	ES	11 40		0.9						
	KRP EP	13 10 32		1.0	6.76	227				
	TRZ E	13 10 37			7.29	212				
	ES	11 57		-0.2						
	CRZ E	13 10 50.5			7.61	260				
	MNG S	13 12 28		-4.2*	8.75	213				

	H M S									72/ 239
MAY 09	13 23 59.3	39.19S	174.73E	33 KM	SE	1.4	AVG MAG	3.7		
	+- 0.5	0.03	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TNZ IP	13 24 05.7	U	-1.2	0.27	270				
	S	12		-0.4						
	CNZ IP	13 24 09.6	D	-1.7	0.64	91		3.7	4.0	
	S	19		-1.0						
	KRP P	13 24 22.4		0.4	1.41	27		3.6	3.8	
	S	41		2.0						
	MNG P	13 24 23		-0.7	1.54	158		3.7	3.5	
	S	43		0.9						
	WEL EP	13 24 31.5		0.2	2.09	179	3.5	4.0	3.8	
	ES	57		1.5						

	H	M	S								72/ 240
MAY 09	15	14	52.5	40.78S	175.83E	12 KM	SE	1.6	AVG MAG		3.8
			+- 0.9	0.03	0.04	8					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG		IP*	15	15	00.3		1.5	0.31	302			
			S*			05		1.6					
	WEL		P*	15	15	10.5		0.7	0.95	237	3.6	3.9	4.2
			S*			23.2		0.6					
			SG			25.3		0.7					
	CNZ		PN	15	15	20.9	U	0.9	1.59	352		3.9	3.8
			P*			23.2		2.4					
			E			42.3							
			SG			46.5		0.2					
	TRZ		ES*	15	15	54		1.5	1.94	325			3.5
	COB		EP*	15	15	32		-2.0	2.36	262		3.8	3.9
			PG			40		-0.3					
			ESN			57.5		-1.0					
			S*		16	03		-2.2					
	GNZ		ESN	15	16	08		0.3	2.72	39			
	KRP		EPG	15	15	48		-2.4	2.86	355			
			ES*		16	19		-1.1					
			SG			27.5		-1.5					
	FELT MASTERTON (66) MM V												

	H	M	S								72/ 241
MAY 09	16	15	53.7	39.62S	176.25E	58 KM	SE	1.2	AVG MAG		3.8
			+- 1.3	0.05	0.04	14					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		P	16	16	04		-1.4	0.45	82			
			S			14.3		0.4					
	CNZ		IP	16	16	07.7		-0.4	0.69	307		4.1	3.9
			S			19		0.1					
	TUA		ES	16	16	28		0.6	1.07	41			3.8
	RNG		EP	16	16	15		0.7	1.16	210		3.3	

	H	M	S								72/ 242
MAY 11	23	43	04.7	37.97S	176.47E	168 KM	SE	1.7	AVG MAG		4.4
			+- 1.3	0.06	0.05	9					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP	23	43	27.3	U	-0.6	0.41	92			
			ES			43		-2.8					
	KRP		P	23	43	30.2	U	0.7	0.73	273			
			S			48		-0.7					
	TUA		P	23	43	31.7		0.4	1.00	147		4.4	4.5
			S			52		0.1					
	GNZ		IP	23	43	35.5	U	0.6	1.40	119		4.9	4.8
			S			57		-1.3					
	CNZ		IP	23	43	36.5	D	1.4	1.42	210		3.8	3.6
			ES		44	02		3.3					
	TRZ		P	23	43	38		0.9	1.61	170		4.6	4.6
			S		44	04		2.0					
	ECZ		P	23	43	38.5		0.9	1.67	81		4.4	4.4
			S		44	04		0.8					
	RNG		IP	23	43	49.5	U	-1.0	2.75	196		4.4	4.0
			S		44	23		-2.6					
	WEL		P	23	43	59.1		-1.5	3.56	201	4.3	4.4	4.2
			S		44	43		-0.6					

	H	M	S								72/ 243
MAY 12	00	49	38.3	35.54S	178.15E	283 KM	SE	1.2	AVG MAG		4.3
			+- 1.7	0.10	0.22	15					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		P	00	50	29.7		0.3	2.61	201		4.2	4.0
			S		51	09		-0.2					
	GNZ		P	00	50	34.7		0.4	3.10	182		4.8	4.7
			S		51	17		-0.9					
	TRZ		S	00	51	40		1.7	4.14	194			4.7

	MNG	P	00 51 01			-0.5	5.48	202		4.0	3.8
		S	52 06			-0.7					
	H M S										72/ 244
MAY 12	05 43 06.0		37.73S	176.00E	311 KM		SE 1.5		AVG MAG		4.3
	+- 2.3		0.09	0.13	22						
			H M S	DIR	RES		DIST	AZ	W-A	W P	W S
	KRP	P	05 43 46.9	U	1.1		0.41	242			
		E	44 19								
	WTZ	P	05 43 45.6		-1.4		0.82	108			
		E	44 13.7								
	GNZ	P	05 43 54.0		1.2		1.84	120		4.7	4.5
		S	44 28		-1.4						
	TRZ	ES	05 44 32		1.4		1.93	161			4.3
	MNG	IP	05 44 02.0	U	-0.1		2.91	188		4.3	4.0
		S	46		0.1						
	COB	ES	05 45 09		-0.8		4.20	216			4.1
	H M S										72/ 245
MAY 12	06 52 15.4		37.03S	177.44E	173 KM		SE 1.5		AVG MAG		3.9
	+- 2.0		0.11	0.12	12						
			H M S	DIR	RES		DIST	AZ	W-A	W P	W S
	WTZ	P	06 52 43.0	U	0.1		1.02	200		3.7	3.4
		S	53 03		-1.1						
	GNZ	P	06 52 49.1		0.1		1.68	164		4.3	4.2
		S	53 15.5		0.5						
	KRP	EP	06 52 51		1.2		1.76	239			
	MNG	P	06 53 14		-1.7		3.90	202		3.9	3.5
		ES	54 03		0.7						
	H M S										72/ 246
MAY 12	14 21 22.7		34.25S	178.01W	249 KM		SE 1.2		AVG MAG		5.2
	+- 1.1		0.06	0.10	12						
			H M S	DIR	RES		DIST	AZ	W-A	W P	W S
	ECZ	P	14 22 32		0.0		4.42	218		5.2	5.1
		S	23 25		-1.0						
	GNZ	P	14 22 45		0.8		5.42	215		5.2	5.0
		S	23 50		2.2						
	WTZ	EP	14 22 43		-2.1		5.50	226		4.8	4.5
		S	23 48		-1.5						
	TUA	P	14 22 51		-0.2		5.98	219		5.1	5.1
		S	24 01		0.6						
	KRP	P	14 22 55		-1.1		6.38	233			
		S	24 10		0.8						
	ONE	EP	14 22 57		0.1		6.44	254	5.3		
	TRZ	P	14 23 02		1.6		6.71	217			
		E	24 21								
	CRZ	EP	14 23 13.5		0.6		7.70	266			
	MNG	P	14 23 19.3		0.2		8.19	217			
		E	40.5								
		S	24 50		-0.4						
		E	25 50								
	WEL	S	14 25 09		-0.9		9.05	217	6.0		
	COB	ES	14 25 33		1.2		10.01	224	5.7		
	GPZ	ES	14 26 14		-0.8		11.90	215			
	H M S										72/ 247
MAY 12	15 49 03.7		33.83S	178.87W	295 KM		SE 0.7		AVG MAG		4.5
	+- 1.0		0.12	0.17	15						
			H M S	DIR	RES		DIST	AZ	W-A	W P	W S
	WTZ	P	15 50 25.5		0.0		5.33	218		4.4	4.2
		S	51 29.5		-0.0						
	GNZ	P	15 50 27		0.6		5.42	207		4.8	4.6
		ES	51 31		-0.3						
	MNG	EP	15 50 59		-0.6		8.13	212			
		S	52 31		0.3						

	H M S									72/ 248
MAY 13	01 09 11.3	38.87S	177.49E	33 KM	SE	1.0	AVG MAG			4.1
	+- 0.4	0.03	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TUA IP*	01 09 18.2	U	-0.4	0.27	284				
	GNZ IPN	01 09 20.8	D	-0.3	0.48	61				
	I	22.1								
	I	23.7								
	S*	29.5		0.7						
	TRZ IPN	01 09 26.9	U	0.6	0.85	217		4.3	4.4	
	IP*	28.7		0.9						
	E	43								
	E	47								
	WTZ IPN	01 09 27.7	U	-0.2	0.97	336		4.1		
	CNZ PN	01 09 36.1	D	0.3	1.55	257		4.2		
	SG	39.3								
	E	42.5								
	S*	10 01		1.1						
	KRP P*	01 09 43		-0.5	1.80	301				
	S*	10 11		3.5*						
	MNG PN	01 09 44.5	U	-2.0	2.33	221		3.6	3.7	
	E	56								
	SN	10 14		0.8						
	WEL SN	01 10 33		-1.1	3.19	220	4.1		4.1	

	H M S									72/ 249
MAY 14	11 01 17.8	41.20S	172.73E	12 KM	SE	2.6	AVG MAG			3.8
	+- 1.4	0.09	0.07	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	COB IPG.	11 01 21.2		0.4	0.11	0				
	WEL PG	11 01 50		1.1	1.54	94	3.6	4.0	4.2	
	SG	02 10		0.3						
	KAI ESG	11 02 10.5		-3.2	1.66	216	3.4			
	MNG PG	11 02 00		-1.5	2.76	75		3.8	3.7	
	SG	30		-0.7						
	MJZ ESN	11 02 49		3.6	3.25	210				
	FELT BAINHAM (72)									

	H M S									72/ 250
MAY 15	07 35 13.8	45.17S	167.11E	33 KM	SE	1.9	AVG MAG			4.0
	+- 1.5	0.05	0.09	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW IPN	07 35 25.8	D	-1.1	0.71	150		4.6	4.3	
	SN	35.5		-0.8						
	MSZ PN	07 35 28.1	U	0.6	0.76	50		4.0	3.7	
	IP*	31.5		2.9						
	E	44								
	ROX P*	07 35 41.6		-0.9	1.59	102		4.4	3.9	
	I	42.7								
	S*	36 06		2.2						
	WPZ EPN	07 35 44.5		0.9	1.93	141		3.9	3.8	
	ES*	36 14		0.2						
	MJZ P*	07 35 59		-1.9	2.67	65		3.8	3.6	
	S*	36 34		-2.1						

	H M S									72/ 251
MAY 15	18 44 17.7	38.26S	176.47E	144 KM	SE	0.9	AVG MAG			4.3
	+- 1.3	0.12	0.05	10						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ P	18 44 37.5		-1.0	0.50	56				
	TUA P	18 44 40		-0.2	0.76	136		4.2	3.9	
	ES	57		-0.5						
	KRP EP	18 44 41.0		0.5	0.81	294				
	S	58.3		0.2						
	GNZ P	18 44 45		0.1	1.28	108		4.4	4.7	
	S	45 06.5		0.9						

	H	M	S										72/ 252
MAY 17	04	00	28.9	38.76S	176.13E	132 KM	SE	1.8	AVG MAG	4.9			
	+-		0.9	0.05	0.04	9							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ		P	04	00	47		-0.1	0.13	351			
	CNZ		IP	04	00	49.7	U	0.4	0.63	226			
	TUA		IP	04	00	50.3	U	0.3	0.80	94			
			ES		01	05.5		-1.6					
	TRZ		P	04	00	54		2.2	0.96	146			
			ES		01	09		-0.4					
	KRP		IP	04	00	52.0	UNW	0.2	0.96	331		4.3	4.3
			S		01	06		-3.4					
	WTZ		IP	04	00	52.0		-0.5	1.03	41			
	TNZ		P	04	00	59.3	U	2.5	1.43	252		4.4	
			S		01	21		2.9					
	GNZ		IP	04	00	58.6	DNW	1.1	1.49	86		5.5	5.3
			S		01	18		-1.2					
	MNG		IP	04	01	04.2	U	1.8	1.92	195		4.8	4.6
			S			28		0.0					
	ECZ		IP	04	01	06.5	D	0.8	2.18	61		5.2	
			S			34		0.3					
	WEL		P	04	01	14		1.0	2.73	202	5.0	4.8	5.1
			S			47		0.5					
	KAI		S	04	02	43		-2.0	5.20	222	5.0		
	GPZ		S	04	02	51		-3.4	5.59	207	5.3		
	MSZ		EP	04	02	29		-1.4	8.52	223			
			S		03	59		-6.2*					

	H	M	S										72/ 253
MAY 18	04	38	42.7	38.91S	175.24E	193 KM	SE	0.9	AVG MAG	4.1			
	+-		1.2	0.04	0.06	9							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		P	04	39	11.5		-0.4	1.01	13			
			S			35		0.5					
	WTZ		EP?	04	39	16.3		-1.0	1.66	57			
	MNG		IP	04	39	18.4		0.4	1.71	174		4.0	3.8
			S			45		-0.3					
	GNZ		P	04	39	24		1.0	2.19	84		4.5	4.2
			S			54		-0.2					

	H	M	S										72/ 254
MAY 18	06	57	01.4	38.77S	175.83E	116 KM	SE	1.8	AVG MAG	3.9			
	+-		1.9	0.07	0.09	23							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		P	06	57	26		1.6	1.10	136		3.9	4.1
			S			44		2.0					
	WTZ		P	06	57	25		-0.6	1.20	50		3.3	3.5
			S			43.5		-0.4					
	TNZ		P	06	57	27		1.3	1.21	249		3.7	
	GNZ		P	06	57	31.7		0.1	1.72	87		4.5	4.3
			IS			53.2		-1.2					
	MNG		IP	06	57	33.1	D	-0.3	1.87	188		3.8	3.6
			S			55		-2.6					

	H	M	S										72/ 255
MAY 18	17	59	45.2	36.83S	177.64E	239 KM	SE	1.2	AVG MAG	3.9			
	+-		2.2	0.20	0.17	12							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		P	18	00	19.7		-1.3	1.26	204		3.5	3.2
			ES			48.5		-0.1					
	GNZ		IP	18	00	26.0	D	0.5	1.83	171		4.7	4.3
			S			57		0.3					
	KRP		P	18	00	28		1.0	2.00	236			
	MNG		IP	18	00	50.3	U	-0.4	4.14	203		4.0	

		H M S								72/ 256
MAY 18		19 37 32.9	38.54S	175.78E	167 KM	SE	0.8	AVG MAG		4.1
		+- 1.1	0.04	0.04	9					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	19 37 57.0	D	-0.1	0.64	342			
		S	38 16		0.3					
	WTZ	P	19 37 59.3		-1.0	1.10	60		3.6	
	GNZ	P	19 38 07.3		0.5	1.76	94		4.7	4.1
		S	33		0.1					
	MNG	IP	19 38 11.0	U	0.5	2.09	186		4.2	4.0
		S	39		-0.4					

		H M S								72/ 257
MAY 18		19 40 23.2	37.43S	177.38E	174 KM	SE	0.8	AVG MAG		4.0
		+- 1.3	0.06	0.05	8					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	IP	19 40 47.2	U	-0.8	0.63	209		3.7	3.6
		E	41 05							
	GNZ	S	19 41 16.5		0.3	1.31	157			4.5
	KRP	P	19 40 56		0.7	1.54	251			
		S	41 20		-0.1					
	TRZ	E	19 41 36			2.16	192			4.3
	MNG	EP	19 41 18.5		-0.0	3.51	204		4.1	3.9
		E	28							
		S	42 01		-0.1					

		H M S								72/ 258
MAY 18		19 52 46.0	38.79S	175.93E	196 KM	SE	1.2	AVG MAG		4.0
		+- 1.7	0.05	0.06	22					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	19 53 06.5		0.1	0.92	340			
	TRZ	P	19 53 09		1.5	1.03	138			
		E	29							
	GNZ	P	19 53 14.5		-0.4	1.64	85		4.2	4.0
		S	36		-0.5					
	MNG	IP	19 53 17.1	U	-0.4	1.85	191		4.4	3.3
		S	40.5		-0.4					

		H M S								72/ 259
MAY 19		20 03 15.3	45.81S	166.60E	12 KM	SE	1.7	AVG MAG		4.1
		+- 1.5	0.05	0.08	8					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	P*	20 03 29.5		0.9	0.72	88		4.2	4.2
		ES*	36.5		-2.0					
	MSZ	PN	20 03 39.3		-1.9	1.47	40		4.3	
		EPG	45.0		-0.1					
		ESG	04 05		-0.1					
	WPZ	EPN	20 03 44		-1.2	1.78	119		4.3	3.9
		ESN	04 07		-0.3					
	ROX	PN	20 03 49.0		1.6	1.94	81		4.3	4.0
		EP*	52		2.4					
		ES*	04 16		0.7					
	KAI	E	20 05 31			4.77	48	4.1		
	COB	E	20 04 55			6.50	46			
		E	06 13							

		H M S								72/ 260
MAY 20		01 51 23.5	38.39S	175.72E	191 KM	SE	1.3	AVG MAG		4.0
		+- 1.1	0.04	0.05	8					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	01 51 50.3		1.2	0.49	343			
		ES	52 10		0.3					
	WTZ	P	01 51 51.9		-1.1	1.08	68		3.1	3.1
		ES	52 14		-1.9					
	TUA	ES	01 52 18		0.5	1.20	111			3.8
	TNZ	EP	01 52 00		3.1*	1.31	232			
		E	26.5							

	TRZ	EP	01 51 58			2.0	1.44	144		4.0	4.2
		ES	52 23			1.7					
	GNZ						1.82	99		4.2	4.3
	MNG	IP	01 52 04.3	U		0.2	2.23	185		4.4	4.2
		ES	34			-1.5					
	ECZ	P	01 52 05.6			0.2	2.34	73		4.4	4.1
		ES	37			-0.7					
	WEL	P	01 52 12.7			-0.3	2.98	194	4.0	4.3	3.9
		ES	51			-0.3					
	COB	ES	01 53 03			-0.3	3.54	220			4.1

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	H M S									
MAY 20	04 59 33.6	39.47S	176.60E	12 KM	SE 1.2		AVG MAG		3.8	
	+- 0.4	0.02	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TRZ	IP* 04 59 38.9		1.0	0.19	117				
	TUA	EP* 04 59 49		0.9	0.78	33		3.9	4.5	
		ES* 05 00 00		1.2						
	GNZ				1.38	54		4.4	4.5	
	MNG	EPN 04 59 58		-1.1	1.44	216		3.6	3.6	
		E 05 00 08								
		E 29								
	WTZ	PN 04 59 59.0		-1.0	1.51	12		3.9	3.8	
		EPG 05 00 02		-2.2						
		ESN 16		-3.6*						
		ESG 23.5		-1.1						
	TNZ	EPG 05 00 10		1.1	1.74	279		3.8		
	KRP	PN 05 00 04.5		1.3	1.75	331		3.6	3.4	
		EPG 10		0.9						
		E 15								
		E 42.5								
	WEL	EPG? 05 00 20		-0.0	2.29	217	3.5	3.5	3.6	
		ESN 37		-0.9						
	COB	EP* 05 00 32		-0.4	3.37	240		3.8	3.7	
		ES* 01 17		0.4						

FELT IN HAWKES BAY MM IV

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	H M S									
MAY 20	05 33 48.0	42.46S	172.75E	12 KM	SE 1.6		AVG MAG		3.7	
	+- 0.5	0.05	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KAI	EPG 05 34 10		1.7	1.00	266	3.3			
		ES* 20		0.3						
	COB	PN 05 34 10.5		-2.1	1.38	359		4.3	4.3	
		ESN 30		-0.9						
	WEL	P* 05 34 21.2		-0.5	1.91	53		4.2	3.7	
		PG 25.0		-1.6						
		ES* 47		0.0						
	MJZ	EP* 05 34 29		1.2	2.26	227		3.5	3.3	
		ESG 35 04		-0.4						
	MNG	PN 05 34 30.7		-0.6	2.75	49		4.1	3.4	
		P* 35.4		-0.8						
		ES* 35 15		2.6						
	TNZ	E 05 34 54			3.50	21		3.6		
	MSZ	PG 05 35 10.7		-1.3	4.15	236		3.2	3.2	
		E 43.5								
	KRP	PN 05 35 04.0		2.4	5.01	26		3.8		

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	H M S									
MAY 20	06 37 55.0	37.22S	177.15E	230 KM	SE 1.2		AVG MAG		3.7	
	+- 2.0	0.11	0.15	12						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ	P 06 38 27.3		0.4	0.78	189		3.3	3.1	
		ES 51		-0.6						
	KRP	EP 06 38 32		0.6	1.46	241		3.1		
	GNZ				1.59	154		4.6	4.3	
	MNG	P 06 38 53.2		-0.9	3.64	200		4.0	3.6	
		E 58.9								

		ES	39 41		1.0						
	COB	ES	06 40 13		-0.5	5.17	220				3.7
	H M S										72/ 264
MAY 20	07 25 04.0		38.58S	175.55E	171 KM	SE	1.2	AVG MAG			3.9
	+- 1.1		0.04	0.03	9						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	IP	07 25 28.7	UNW	0.0	0.65	359		3.8	2.9	
		ES	48		0.3						
	TNZ	P	07 25 33.8		2.0	1.10	236		3.5		
	TUA	P	07 25 34.0		0.7	1.27	101		4.1	4.5	
		ES	56		0.0						
	WTZ	EP?	07 25 32		-1.4	1.28	63		3.1	3.1	
		ES	55		-1.1						
	TRZ	EP	07 25 36		1.6	1.39	135		3.7	4.4	
		E	26 04								
	GNZ					1.94	93		4.3	4.4	
	MNG	P	07 25 41.8		0.6	2.04	181		3.7	4.3	
		E	45								
		ES	26 09		-0.9						
	WEL	P	07 25 49.8		-0.2	2.77	192	4.3	3.8	4.3	
		ES	26 26		0.6						
	COB	EP	07 25 56		-0.8	3.31	220		3.9	4.1	
		ES	26 36		-1.4						
	H M S										72/ 265
MAY 20	19 56 48.3		39.69S	177.31E	12 KM	SE	1.4	AVG MAG			4.0
	+- 0.6		0.02	0.04	8						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TRZ	P*	19 56 56.2		0.0	0.40	291				
	TUA	P*	19 57 06.0		1.4	0.89	352		4.0		
		ES*	18		1.2						
	GNZ	P*	19 57 10.1		0.4	1.19	28		4.4	4.4	
		E	18.1								
		SG	28.3		-0.2						
		E	34								
	CNZ	PN	19 57 14.2	D	0.3	1.45	289		4.9	4.7	
		ESN	31		-1.9						
	MNG	EPN	19 57 16		-0.8	1.67	236		3.8	3.7	
		EPG	24		1.8						
		ES*	43		2.7						
	WTZ	EPN	19 57 16.3		-1.2	1.73	352		4.0	3.9	
		P*	19.4		0.5						
		E	33.8								
		ES*	41		-0.8						
		ESG	47		0.5						
	ECZ	E	19 57 44.5			2.22	26			3.9	
	KRP	EPN	19 57 22		-2.5	2.24	321		3.7	3.4	
		P*	27.3		0.1						
		EPG	33		-0.7						
		ES*	58 00		2.7						
	TNZ	P*	19 57 28.0		-1.1	2.32	282		3.8	3.5	
		ES*	58.5		-1.2						
	WEL	PG	19 57 40		1.0	2.50	230	3.6	4.0	3.8	
		ESN	55		-3.1*						
		ESG	58 12		-0.7						
	COB	EP*	19 57 52		-1.7	3.76	247		3.8	3.7	
		ES*	58 43		0.1						
	FELT IN HAWKES BAY										
	H M S										72/ 266
MAY 20	21 09 29.0		44.99S	167.58E	103 KM	SE	1.5	AVG MAG			4.0
	+- 1.5		0.06	0.09	13						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MSZ	IP.	21 09 46		1.3	0.40	37				
	MNW	IP	21 09 48.1	D	0.3	0.79	178		4.6	4.6	
		ES	10 00		-2.0						
	ROX	IP	21 09 55.3	D	1.5	1.32	112		4.4		

		ES		10 13		0.5					
	WPZ	P	21	10 00.8		0.0	1.89	152		3.9	3.9
		ES		24		-0.4					
	MJZ	P	21	10 06.9		0.7	2.30	65		3.5	3.7
		ES		34		0.1					
	GPZ	E	21	11 06.5			3.86	72	4.1		
	COB	ES	21	11 48.5		-2.1	5.43	46			3.7

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	H	M	S									
MAY 21	00	34	18.6	36.38S	177.95E	245 KM	SE	1.1	AVG MAG		4.7	
	+-		0.8	0.04	0.07	7						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		00	34	55.5		-0.5	1.39	161		5.0	5.0
		E			35	16							
		ES				23		-1.7					
	WTZ	P		00	34	58.8	D	-0.2	1.78	206		4.4	4.4
		E			35	12							
		ES				30		-0.2					
	GNZ	IP		00	35	04.1	U	0.7	2.26	179		5.2	5.4
		E				28							
		ES				38		-0.2					
	KRP	IP		00	35	07.0	DNE	1.4	2.48	231		4.9	3.6
		ES				43		0.9					
		E			36	01							
	TUA	EP		00	35	07		1.0	2.51	195		4.5	4.8
		E				38							
		ES				44		1.3					
	CNZ	P		00	35	17.9	D	2.1	3.40	213		4.5	4.1
		ES			36	00		-0.2					
	MNG	P		00	35	30.0		-0.6	4.66	204		4.9	4.8
		ES			36	27		0.3					
	CRZ	P		00	35	30		-1.5	4.73	293		4.2	
	WEL	P		00	35	40.4	D	-0.6	5.50	206		4.8	4.9
		ES			36	45		-0.3					
	COB	P		00	35	49		-1.2	6.23	219			
		ES			37	02		0.3					

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	H	M	S									
MAY 21	02	26	04.6	42.47S	172.93E	12 KM	SE	1.4	AVG MAG		3.7	
	+-		0.5	0.04	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KAI	EP*		02	26	26		1.0	1.13	266	3.5		
		ES*				41		0.8					
	GPZ								1.25	190	3.6		
	COB	PN		02	26	29.1		-0.3	1.39	354		4.3	4.4
		ESN				46		-1.8					
	WEL	PG		02	26	40.8		-0.5	1.81	50	3.3	3.9	3.8
		ESG			27	05		-0.7					
	MJZ	EPN		02	26	44		1.6	2.36	229		3.2	3.4
		ESN			27	10		-0.5					
	MNG	PN		02	26	44.3		-1.9	2.66	47		3.7	3.7
		EP*				52		0.8					
		ESN			27	18		-0.3					
		ES*				28		1.8					
	TNZ	EP*		02	27	07		2.1	3.46	19		3.6	3.6
		E				41							
	MSZ	ESN		02	27	55		-1.6	4.26	237			3.4
	KRP	PN		02	27	17.3		0.2	4.96	25		3.8	3.5
		EP*				29		-1.5					
		ESN			28	14		0.6					

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	H	M	S									
MAY 21	15	04	24.1	37.50S	176.85E	197 KM	SE	1.0	AVG MAG		4.1	
	+-		0.8	0.05	0.04	5						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	P		15	04	50.1		-1.0	0.50	167			
		I				50.8							
		ES			05	10.5		-1.3					

KRP	P	15 04 54.9		0.2	1.12	247		3.6	2.9
	ES	05 19		0.6					
TUA	EP	15 04 56		-0.3	1.33	170		4.3	4.2
	E	05 22							
ECZ	P	15 04 56.9		0.3	1.36	99		4.2	4.1
	E	05 30.5							
GNZ	P	15 04 58.2		0.6	1.47	141		4.7	5.1
	ES	05 23		-0.5					
CNZ	P	15 05 03.8		1.2	1.98	211		4.1	3.7
	E	38							
TRZ	EP	15 05 05		1.7	2.05	181		3.9	4.2
	ES	35		1.5					
TNZ	E	15 05 14			2.57	228		3.5	
MNG	P	15 05 17.3		-0.4	3.29	198		4.5	4.2
	ES	59		-0.1					
WEL	P	15 05 26.9		-1.0	4.11	202	4.4	4.3	4.3
	ES	06 16		-1.2					
COB	EP	15 05 36		-0.6	4.80	220		3.5	3.9
	ES	06 33		0.2					

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	H M S								
MAY 21	15 45 41.8	44.37S	168.75E	12 KM	SE 1.6		AVG MAG		4.1
	+- 0.5	0.04	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
HSZ	IP*	15 45 52.8	D	-1.6	0.67	243			
	PG	54.1		-1.4					
ROX	PG	15 46 06		0.3	1.17	160			
MJZ	EP*?	15 46 05		-0.0	1.29	73		3.9	3.9
	PG	06.3		-1.7					
	ES*	23		0.7					
MNW	IP*	15 46 13.0	D	2.4	1.62	209		4.6	4.4
	EPG	15		0.3					
	ESG	39		2.4					
WPZ	PG	15 46 26.0		-2.1	2.29	178		4.1	4.2
	SG	58.2		-0.8					
KAI	EPG	15 46 36		0.1	2.67	47	3.8		
	E	47 00							
COB	EPN	15 46 47		-0.3	4.40	43		4.1	3.8
	ESN	47 39		1.8					
MNG	E	15 47 19.2			6.23	55			
	E	48 38							

FELT MT ASPIRING STATION (113) MM IV

72/ 271

	H M S								
MAY 21	20 53 55.0	42.17S	172.95E	12 KM	SE 1.6		AVG MAG		3.9
	+- 0.5	0.04	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P*	20 54 14.2		-0.5	1.09	351		4.2	4.3
	ES*	28		-1.4					
KAI	EP*	20 54 16		-0.6	1.20	252	3.3		
	ES*	33		0.3					
WEL	P*	20 54 24.1		0.4	1.62	58		4.1	4.3
	E	39							
	S*	45.3		0.6					
MNG	PN	20 54 31.5		-2.5	2.45	52		4.4	4.0
	P*	36.7		-1.3					
	PG	42.3		-2.2					
	ES*	55 10		-0.2					
MJZ	EPN	20 54 36		0.2	2.58	224		3.7	3.4
	ESN	55 05		-1.6					
TNZ	EPN	20 54 44		0.2	3.17	20		4.1	4.0
	ESN	55 22		1.5					
CNZ	PN	20 54 52.0		3.0	3.56	34		4.2	4.2
	EP*	59.5		2.5					
	E	55 27.0							
	E	40							
HSZ	EPN	20 55 02		1.0	4.44	234		3.2	3.6
	ESN	52		0.7					

	H M S								72/ 272
MAY 23	11 13 33.2	39.44S	174.55E	252 KM	SE 1.4		AVG MAG		4.4
	+- 1.0	0.06	0.05	8					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ P	11 14 06.9		0.9	0.29	333			
	S	32.1		0.7					
	CNZ IP	11 14 09.5	D	1.9	0.81	73		4.3	4.2
	ES	36		1.5					
	MNG P	11 14 12.3		1.1	1.38	149		4.3	4.6
	E	31							
	E	40							
	KRP IP	11 14 13.7	DSW	0.1	1.70	27		4.0	3.4
	ES	44		-0.8					
	TRZ P	11 14 15.6		1.5	1.76	94		4.4	4.8
	S	46.5		0.8					
	WEL S	11 14 47		-0.0	1.85	175			
	TUA P	11 14 18		0.8	2.12	73		4.1	4.6
	ES	50		-1.4					
	COB P	11 14 17.7		0.2	2.15	220		4.7	4.5
	ES	50		-1.9					
	WTZ IP	11 14 19.1	D	-0.8	2.40	53		3.9	4.1
	ES	54		-2.2					
	GNZ P	11 14 25.0	UE	0.6	2.82	75		4.8	5.0
	ES	15 02.5		-1.6					
	KAI ES	11 15 24		-1.4	3.89	217	4.6		

	H M S								72/ 273
MAY 23	20 37 35.4	36.82S	176.77E	267 KM	SE 1.7		AVG MAG		3.9
	+- 2.9	0.21	0.23	37					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ EP	20 38 14		0.5	1.17	171		3.4	3.3
	E	39							
	GNZ EP	20 38 21		0.8	2.07	152		4.4	4.4
	ES	54		-1.0					
	MNG P	20 38 38.6		-1.0	3.92	194		4.4	3.8
	ES	39 31		1.4					
	COB ES	20 39 58		-0.7	5.29	215			3.7

	H M S								72/ 274
MAY 25	16 17 18.6	38.83S	175.89E	123 KM	SE 1.4		AVG MAG		4.0
	+- 1.1	0.04	0.04	11					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP EP	16 17 42		1.4	0.94	343		2.8	2.8
	ES	57		-0.4					
	TUA EP	16 17 42		1.0	0.99	89		3.9	4.1
	ES	58.5		0.4					
	TRZ P	16 17 43.9		2.5	1.03	135		4.1	4.3
	E	18 05							
	WTZ P	16 17 43.1		-0.4	1.21	46		3.9	3.6
	ES	18 00.5		-1.8					
	TNZ P	16 17 45.9		2.2	1.23	253		3.5	3.1
	E	18 09							
	GNZ EP	16 17 49		0.2	1.68	84		4.2	4.7
	ES	18 10.5		-1.2					
	MNG IP	16 17 51.1	U	0.7	1.81	190			
	E	18 08							
	ES	14		-0.4					
	WEL EP	16 18 00		-0.7	2.60	199		3.9	4.2
	ES	32		-0.5					
	COB P	16 18 08.3		-1.7	3.31	226		5.2	5.3
	ES	48		-1.2					

	H M S								72/ 275
MAY 25	17 32 57.3	37.86S	176.70E	187 KM	SE 1.3		AVG MAG		4.0
	+- 1.2	0.05	0.05	8					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ IP	17 33 20.9	U	-1.4	0.26	119			

	KRP	EP	17	33	26		0.7	0.92	265	3.5	3.2
		ES			46.5		-0.4				
	TUA	EP	17	33	26		0.1	1.02	160	4.1	4.0
		ES			50		1.9				
	GNZ	IP	17	33	28.7	U	0.4	1.31	127	5.0	4.8
		ES			50		-2.3				
	TRZ	P	17	33	33.8		1.8	1.70	177	4.0	4.0
		S			59.7		0.9				
	MNG	P	17	33	45.9		0.0	2.92	198	4.0	3.9
		ES			34 22.5		-0.9				
	WEL	P	17	33	55.8		-0.1	3.74	203	4.1 3.6	3.7
		ES			34 41		-0.2				
	COB	ES	17	34	57		-0.5	4.45	222		3.7

	H M S									72/ 276
MAY 25	20 04 15.5	34.58S	179.42W	12 KM	SE 1.7	AVG MAG				4.8
	+- 1.1	0.06	0.07	3						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ PN	20 05 21.0		-0.8	4.47	219		4.8	4.6	
	ESN	06 12		-0.4						
	GNZ PN	20 05 23.4		0.5	4.55	206		5.1	5.1	
	ESN	06 13		-1.3						
	TUA EPN	20 05 30		0.5	5.04	212				
	ESN	06 27		0.8						
	ONE EPN	20 05 32		0.0	5.23	255		3.8		
	KRP PN	20 05 33.5		1.1	5.26	229		4.7	3.9	
	ESN	06 33		1.4						
	TRZ PN	20 05 39.9		0.3	5.80	210		5.2	5.0	
	ESN	06 48		3.6						
	CRZ PN	20 05 48.8		-0.6	6.52	269				
	TNZ EPN	20 05 53		0.3	6.77	225				
	MNG EPN	20 05 56		-3.2	7.26	212				
	E	06 15								
	ESN	07 19		-0.1						
	E	37								
	ES*	54		-1.2						
	WEL EP*	20 06 33		-2.4	8.11	213	5.3			
	ESN	07 35		-4.5*						
	CIZ EPN	20 06 33		2.6	9.62	168				
	ESN	08 14		-1.2						

	H M S									72/ 277
MAY 26	10 30 39.8	41.29S	172.68E	211 KM	SE 1.5	AVG MAG				3.9
	+- 0.9	0.06	0.05	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	COB EP	10 31 09		1.5	0.21	11				
	KAI ES	10 31 42		-0.6	1.56	217	3.8			
	WEL IP	10 31 17.1		1.8	1.57	91		4.5	4.1	
	ES	43.3		0.7						
	MNG IP	10 31 22.9	U	1.2	2.23	73		4.3	3.9	
	ES	53		-1.1						
	GPZ ES	10 31 56		-1.6	2.40	181	3.8			
	TNZ EP	10 31 24		-0.4	2.47	32		3.8	3.9	
	ES	58		-0.9						
	NJZ EP	10 31 34.0		1.8	3.15	210		3.6	3.2	
	ES	32 14		1.1						
	KRP E	10 32 25.3			4.02	34			3.3	
	HSZ P	10 31 53.8		0.5	4.86	224		3.7	3.7	
	ES	32 48		-2.4						
	GNZ P	10 31 53		-0.6	4.88	59		4.4	4.2	
	ES	32 50		-0.9						

	H M S									72/ 278
MAY 26	13 23 52.4	35.00S	178.89W	261 KM	SE 1.0	AVG MAG				4.3
	+- 1.6	0.06	0.09	23						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ				4.41	213		4.7	4.5	
	WTZ EP	13 25 02		-0.7	4.47	227		4.4	3.9	

		E			50							
	TUA	ES	13	26	09		0.9	4.96	219			4.4
	KRP	P	13	25	13.2		-0.3	5.37	235		3.8	
	TRZ	ES	13	26	24		-0.2	5.69	216			4.1
	CRZ	ES	13	26	53		0.1	6.98	272			
	MNG	EP	13	25	37		1.0	7.17	217			
		ES		26	56		-1.2					
	WEL	ES	13	27	17		0.5	8.03	217			

	H	M	S									72/ 279
MAY 27	19	42	05.0	38.83S		175.47E	200 KM	SE	1.7	AVG MAG		4.4
		+-	1.0	0.05		0.05	8					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	P		19	42	33.0		1.2	0.37	171			
		ES				55		2.5					
	KRP	IP		19	42	34.2	DSW	-0.1	0.91	3		4.2	3.5
		ES				54		-3.0					
	TNZ	IP		19	42	35.9	U	1.5	0.92	247		4.3	3.7
		ES				58		0.8					
	TUA	EP		19	42	38		0.7	1.31	89		4.5	4.6
		ES			43	00		-2.3					
	WTZ	IP		19	42	37.9	U	-0.7	1.46	55		4.0	4.0
		E				59							
	MNG	P		19	42	43.1		1.4	1.78	180		5.0	4.5
		ES			43	08		-1.9					
	GNZ	IP		19	42	44.9	D	1.0	2.00	85		4.9	4.9
		E			43	05							
		E				11							
		ES				14		0.2					
	WEL	P		19	42	51.0		1.5	2.51	192	4.4	4.9	4.6
		ES			43	25		1.2					
	GBZ	P		19	42	50.2		-0.5	2.61	0		3.8	
	ECZ	P		19	42	51.3		-0.1	2.67	66		4.7	4.7
		E			43	23							
	KAI	E		19	43	29			4.81	219	4.4		
		ES			44	12		-2.0					
	GPZ	ES		19	44	24		-1.4	5.30	203	4.9		

	H	M	S									72/ 280
MAY 28	05	46	03.1	38.65S		175.07E	250 KM	SE	1.1	AVG MAG		4.1
		+-	1.0	0.05		0.07	7					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	P		05	46	36.8	U	0.2	0.67	146		4.5	3.9
		ES			47	02.5		-0.3					
	TNZ	P		05	46	38		1.0	0.76	225		3.7	
	KRP	P		05	46	37.1		-0.1	0.81	27		3.8	3.1
		ES			47	03		-0.9					
	TUA	E		05	47	08			1.64	96			4.1
	MNG	IP		05	46	46.2	U	0.5	1.99	171		4.7	3.9
		ES			47	19		0.2					
	GNZ	P		05	46	47.9		-0.9	2.31	91		4.4	4.4
		ES			47	20		-4.3*					
	WEL	IP		05	46	53.0	D	0.8	2.65	185	3.9	4.2	3.9
		ES			47	32		1.6					
	COB	P		05	46	56.7		0.5	3.03	216		4.3	3.7
		ES			47	37		-0.5					
	GPZ	ES		05	48	25		-2.0	5.36	199	4.4		

	H	M	S									72/ 281
MAY 29	00	47	00.0	32.96S		179.98E	425 KM	SE	1.6	AVG MAG		5.2
		+-	1.4	0.08		0.15	14					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		00	48	26		3.4	4.87	194		5.5	5.2
		ES			49	29		1.5					
	GBZ	P		00	48	23.3		0.1	4.93	228		4.1	
	ONE	EP		00	48	29		0.8	5.43	237	5.0		
	WTZ	P		00	48	28.1		-1.7	5.58	205		4.9	4.6
		E				30.0							

	E			49	35						
GNZ	IP		00	48	31.8	U	-1.2	5.89	195	5.6	5.5
	E				33.5						
	ES			49	45		-1.3				
KRP	EP		00	48	36		0.3	6.14	215		
	E				38.5						
	E			49	57						
CRZ	EP		00	48	36		-1.0	6.26	254		
TUA	EP		00	48	37		-0.1	6.27	201		
	ES			49	53		-0.7				
TRZ	EP		00	48	45		-0.7	7.06	200		
	ES			50	08		-1.3				
CNZ	EP		00	48	49		1.8	7.19	209		
	E			50	05						
	E				18						
TNZ	EP		00	48	57		4.2*	7.69	215		
	E			50	30						
MNG	P		00	48	58.2		-3.1	8.45	204		
	E			49	02						
	E			50	29						
	S				38.0		0.7				
WEL	EP		00	49	11.5		0.7	9.29	205	6.1	
	ES			50	55		0.5				
COB	EP		00	49	19		0.6	9.96	213		
	ES			51	09		0.7				

	H	M	S									72/ 282
MAY 29	02	47	16.3	41.84S		172.39E		12 KM	SE	1.4	AVG MAG	4.3
			+_ 0.3	0.03		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P*			02	47	33.1	U	0.2	0.79	19			
KAI	IP*			02	47	37.0		0.5	1.00	226			
	ES*					50		-0.1					
WEL	PG			02	47	55.1		-1.0	1.87	74		4.7	4.9
	ESG				48	22.5		1.2					
GPZ	PG			02	47	53.6		-2.5	1.87	174	4.0		
	E					57.2							
	S*				48	15.3		-0.3					
MUZ	PN			02	47	59.8		0.7	2.57	213		3.9	4.0
	ESN				48	31		1.2					
MNG	PN			02	48	02.5		2.6	2.63	63		4.9	4.5
	P*					06.0		1.7					
	PG					09.3		-1.7					
	ESG					46		-0.9					
TNZ	EP*			02	48	11.5		-0.1	3.05	30		4.1	4.2
	ESG					58.5		-2.6					
CMZ	EPN			02	48	11.5		1.2	3.41	198		4.6	4.5
	EPG					23		-4.2*					
	ES*				49	02		-0.3					
CNZ	I			02	48	16.0			3.57	43		4.9	4.9
	EP*					20		-0.4					
	ES*				49	07		-0.1					
TRZ	EPG			02	48	43		2.5	4.07	57		4.4	4.3
	ESG				49	36		0.6					
MSZ	EPN			02	48	22		-0.7	4.33	228		4.1	4.2
	ESN				49	11		-0.8					
KRP	PN			02	48	27.5		1.1	4.60	33		4.2	4.2
	E				49	14							
TUA	EPG			02	48	55		1.1	4.73	52		4.2	
WTZ	EP*			02	48	48		-0.8	5.22	44		3.9	3.6
	E				49	22							
GNZ	PG			02	49	04.5		-2.2	5.36	55		4.4	4.5
	E					41							

FELT MURCHISON (80) MM V

		H M S								72/ 283
MAY 30		04 36 04.7	37.78S	176.23E	213 KM	SE 1.5		AVG MAG		4.2
		+- 1.2	0.06	0.05	10					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	04 36 33.7	U	0.0	0.56	255		3.8	
		ES	57		1.0					
	TUA	EP	04 36 38		0.2	1.26	145		4.1	4.3
		ES	37 03		-0.5					
	CNZ	EP	04 36 42		2.1	1.52	200		3.4	3.5
		E	37 11							
	GNZ	P	04 36 41.2	D	-0.0	1.66	122		5.2	4.7
		ES	37 08		-1.4					
	GBZ	P	04 36 39.4		-1.9	1.67	339		3.7	
	TRZ	P	04 36 43.5	U	0.5	1.83	165		4.2	4.5
		ES	37 13.5		1.2					
	ECZ	P	04 36 43.1		0.1	1.84	88		4.7	4.4
		E	37 24							
	MNG					2.90	191		3.8	4.2
	WEL	ES	04 37 48		-1.3	3.68	197	4.2		4.3
	COB	EP	04 37 13		2.1	4.27	218		3.8	3.9
		ES	38 00		-2.2					

		H M S								72/ 284
MAY 31		08 33 38.7	37.46S	176.17E	279 KM	SE 1.5		AVG MAG		3.9
		+- 1.5	0.07	0.10	13					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	08 34 18.0		2.3	0.68	227		3.3	
	WTZ	EP	08 34 15		-1.3	0.84	129		3.2	3.0
		E	21.5							
		ES	43.5		-2.2					
	GBZ	P	08 34 20.0		0.6	1.36	336		3.4	
	TUA	EP	08 34 20.3		-0.4	1.55	150		4.3	4.3
		ES	53.5		0.5					
	GNZ	P	08 34 24.0		1.0	1.88	129		4.5	4.4
		ES	58		0.6					
	TRZ	EP	08 34 26		0.7	2.15	166		3.7	4.1
		E	35 05.5							
	MNG					3.20	189		4.4	4.0
	WEL	P	08 34 43.3		-0.8	3.97	195	4.1	4.2	4.0
		ES	35 36		1.0					
	COB	P	08 34 48.0		-2.1	4.50	215		4.0	3.6
		ES	35 46		0.1					

		H M S								72/ 285
JUN 01		12 44 25.0	38.72S	175.23E	283 KM	SE 1.5		AVG MAG		3.8
		+- 1.5	0.13	0.10	14					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP	12 45 03.2	D	1.1	0.54	153		3.7	3.4
		ES	31.5		0.3					
	KRP	IP	12 45 03.2	D	0.1	0.83	17		3.8	
	TRZ	ES	12 45 40.5		1.1	1.49	124			3.7
	WTZ	P	12 45 06.5		-1.0	1.56	63		3.5	
	MNG					1.91	174		3.4	3.9
	GNZ	ES	12 45 47		-2.1	2.18	89			3.9
	WEL	S	12 45 57.0		1.2	2.59	188			3.8
	ECZ	EP	12 45 19		0.8	2.80	70		4.6	
	COB	EP	12 45 21		0.4	3.05	218		3.7	3.6
		ES	46 02		-1.9					

		H M S								72/ 286
JUN 01		15 01 30.0	37.14S	177.55E	187 KM	SE 1.7		AVG MAG		4.0
		+- 1.9	0.07	0.08	16					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	P	15 01 57.0		-1.2	0.95	208			
	ECZ	EP	15 02 00.5		2.2	0.97	125		4.3	4.1
		E	27.5							
	GNZ	IP	15 02 02.9	D	-0.4	1.55	166		4.5	4.4

		E			21.5						
		ES			27	-2.0					
	KRP	P	15	02	06.9	1.3	1.78	243		4.0	3.5
		ES			34	0.9					
	GBZ	P	15	02	05.1	-1.8	1.90	298		3.7	
	TRZ	EP	15	02	14	0.7	2.48	193		3.6	4.2
		ES			48	1.4					
	MNG						3.83	204		3.4	3.8
	WEL	ES	15	03	34	-1.2	4.67	207	4.5		3.9
	COB	ES	15	03	53	0.0	5.44	222			3.8

	H	M	S								72/ 287
JUN 04	12	25	26.8	33.64S	179.15W	242 KM	SE	1.4	AVG MAG		4.9
		+-	1.0	0.05	0.08	11					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P	12	26	37	0.8	4.46	204		5.3	5.3
		ES		27	30	-0.3					
		E			35						
	GBZ	P	12	26	43.7	-0.4	5.10	238		4.3	3.8
		E		27	43.5						
	WTZ	P	12	26	45.5	-1.7	5.35	215		4.8	4.7
		S		27	50	0.1					
	GNZ	P	12	26	47.5	-1.5	5.49	204		5.2	5.1
		S		27	52	-1.1					
	ONE	P	12	26	52	-0.1	5.74	246			
	AUC	P	12	26	57	2.8	5.91	235			
	TUA	P	12	26	55.5	0.7	5.96	209		5.1	5.1
		S		28	05	1.4					
		E			31						
	KRP	P	12	26	57.5	1.3	6.07	224			
		S		28	11	4.8*					
	TRZ	P	12	27	04	-0.6	6.73	208			
		E			22						
		S		28	23	1.9					
		E			57						
	ORZ	P	12	27	05	-0.7	6.82	261			
		ES		28	18	-3.1*					
	ONZ	EP	12	27	10	2.0	7.00	216			
	MNG	P	12	27	21	-2.0	8.18	210			
		L			43						
		S		28	53	-1.1					
		E		29	29						
	WEL	EP	12	27	32	-1.9	9.03	211	5.4		
		E			57						
		S		29	12	-1.6					
		E			55						
	COB	EP	12	27	43	-1.2	9.84	219			
		S		29	32	-0.1					
	OIZ	S	12	29	48	0.8	10.50	170			
	GPZ	S	12	30	20	0.8	11.90	210	5.3		
		E			22						
	HUZ	S	12	30	46	-0.3	13.11	215			
	MSZ	EP	12	28	49	2.0	14.87	218			

	H	M	S								72/ 288
JUN 04	21	34	18.2	33.54S	179.31W	260 KM	SE	2.0	AVG MAG		5.2
		+-	1.4	0.07	0.09	15					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P	21	35	29.5	-0.3	4.50	202		5.3	5.4
		S		36	25	1.2					
		E			50						
	GBZ	P	21	35	35	-0.4	5.05	237		4.4	
	WTZ	P	21	35	38	-1.2	5.36	213		4.8	4.6
		S		36	43	0.5					
	GNZ	P	21	35	38	-3.3	5.53	202		5.1	5.3
		E			57						
		S		36	43	-3.3					
		E		37	20						

	ONE	P	21	35	44	1.0	5.67	245		
	AUC	P	21	35	46	0.6	5.87	234		
	TUA	P	21	35	47	0.1	5.99	208	5.0	5.2
		S		36	58	1.7				
		E		37	20					
	KRP	P	21	35	49	1.2	6.06	222		
		S		37	02	4.0				
	CRZ	P	21	35	57	1.0	6.72	260		
		E		36	05					
		ES		37	11	-1.7				
	CNZ	P	21	36	00	0.3	7.01	215		
		E		37	50					
	MNG	P	21	36	13	-1.7	8.20	209		
		S		37	45	-1.1				
		E		38	21					
	WEL	S	21	38	04	-1.4	9.05	210	6.1	
	COB	EP	21	36	34	-1.4	9.84	218		
		E			55					
		S		38	25	1.7				
	CIZ	(P)	21	36	54	8.9*	10.62	169		
		S		38	43	2.1				
	KAI						11.57	216	5.3	
	GPZ	S	21	39	08	-2.6	11.93	209	5.3	
	MJZ	S	21	39	37	-0.2	13.12	214		
	MSZ	EP	21	37	41	3.2	14.87	218		

	H	M	S									72/ 289
JUN 05	00	30	15.4	33.38S		179.20W	320 KM		SE 2.1		AVG MAG	4.9
		+-	2.4	0.11		0.14	29					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	ECZ		P	00	31	30		-0.6	4.68	202		5.2 4.9
			S		32	29		-0.5				
			E			50						
	WTZ		P	00	31	39		-1.4	5.54	213		4.6 4.2
	GNZ								5.72	202		5.1 4.9
	TUA		P	00	31	48		0.2	6.17	208		
			E		32	09						
			S		33	04		3.6				
			E			28						
	KRP		P	00	31	49		0.4	6.24	222		
	CRZ		P	00	31	58		2.2	6.83	259		
			S		33	13		-1.5				
	MNG		P	00	32	14		-0.5	8.38	209		
			E			32						
			S		33	45		-3.3				
			E		34	21						
	WEL		S	00	34	07		-0.0	9.24	210	5.1	
	COB		S	00	34	26		1.6	10.02	218		

	H	M	S									72/ 290
JUN 05	07	41	22.2	35.50S		179.19W	222 KM		SE 1.2		AVG MAG	4.4
		+-	0.9	0.04		0.05	9					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	ECZ		P?	07	42	11		-0.7	2.84	219		4.4
			S			51		1.0				
	GNZ		P	07	42	23		-0.4	3.84	215		4.6 4.5
			S		43	11		0.1				
	WTZ		P	07	42	22.5		-2.1	3.94	230		4.1 4.2
			S		43	11		-2.0				
	GBZ		P	07	42	30		-0.0	4.38	259		3.8
	TUA		P	07	42	31		0.7	4.40	220		4.5 4.4
			S		43	25		1.8				
	KRP		P	07	42	36		-0.1	4.87	239		
			E			48						
			S		43	35		1.3				
	ONE		P	07	42	42		1.0	5.25	265		
	MNG		P	07	42	57.5		-0.8	6.61	218		
			S		44	12		-1.3				

	CRZ	P	07	43	01		0.9	6.76	277		
	WEL	S	07	44	32.5		-0.6	7.47	218	5.0	
	COB	S	07	44	55.5		-0.1	8.44	226		
	CIZ	S	07	45	02		1.0	8.68	167		
	MJZ	S	07	46	09		0.4	11.62	220		
	MSZ	EP	07	44	29		3.6*	13.45	223		

	H	M	S									72/ 291
JUN 09	23	23	50.3	33.61S	179.58E	247 KM	SE	2.3	AVG MAG			4.6
		+-	2.5	0.13	0.14	20						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		P	23	24	58		1.6	4.16	191		4.6	4.7
			ES		25	47		-0.8					
			E			50							
	WTZ		P	23	25	02		-2.6	4.85	205		4.3	4.2
			S		26	02.5		-0.1					
	KRP		EP	23	25	15		3.3	5.42	216			
	TUA		S	23	26	18		-0.1	5.55	200			4.6
	TRZ		S	23	26	39		3.2	6.33	200			
	MNG		P	23	25	38		-2.8	7.72	204			
			S		27	04		-3.3					
	WEL		S	23	27	26		-0.4	8.56	205	5.3		
	COB		EP	23	26	00		-0.0	9.24	214			
			S		27	42.5		0.7					
	CIZ		S	23	28	17		0.5	10.76	165			
	MJZ		S	23	28	58		0.8	12.55	212			

	H	M	S									72/ 292
JUN 10	14	40	25.6	37.77S	176.12E	221 KM	SE	1.3	AVG MAG			5.2
		+-	0.6	0.02	0.03	5						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		IP	14	40	56.1	USW	0.9	0.49	252			
			S		41	19		1.0					
	WTZ		IP	14	40	54.8	U	-1.3	0.72	107			
			S		41	17		-2.8					
	WNZ		EP	14	40	58		1.2	0.86	181		5.0	
	TUA		IP	14	40	59.5	U	-0.4	1.31	142			
			S		41	25		-1.5					
	AUC		IP	14	41	01.5	D	0.9	1.40	310			
	CNZ		IP	14	41	02.9	U	1.6	1.49	197		5.0	
			E			35							
	GBZ		IP	14	41	02.0		-0.5	1.63	342		4.6	4.1
			S			31		-0.1					
	GNZ								1.73	121		6.0	6.0
	TRZ		P	14	41	06		1.3	1.86	163		5.6	5.9
			E			30							
			E			34							
			ES			38		3.2					
	ECZ		P	14	41	04.5		-0.8	1.93	88		5.9	5.7
			S			35.5		-0.4					
	ONE		P	14	41	11		0.5	2.44	324	4.3		
			S			45		-0.3					
	MNG		IP	14	41	15.8	D	0.3	2.89	190		5.3	5.1
			S			53		-1.2					
	WEL		P	14	41	24		-0.6	3.66	196	5.3	5.1	5.3
			S		42	11		0.7					
	COB		P	14	41	31		-0.4	4.22	217		4.9	5.2
			S		42	23		0.5					
	CRZ		P	14	41	33.5		0.6	4.34	319		4.1	
	KAI		EP	14	41	55		1.7	5.96	216	4.2		
			S		43	01		-0.7					
	GPZ								6.48	203	5.7		
	MJZ		P	14	42	12		-1.6	7.54	213			
			S		43	36		-2.1					
	ONZ		P	14	42	22.5		-0.6	8.27	207			
			S		43	54		-1.0					
	CIZ		E(P)	14	42	28		4.6*	8.30	140			
			S		43	57		1.4					

		E			44	04							
	ROX	ES		14	44	13		-3.9*	9.22	211			
	MNW	P		14	42	47		-1.0	10.21	216			
		S			44	41		1.4					

	H	M	S										72/ 293
JUN 12	09	43	49.4	33.47S		179.34W		260 KM	SE	1.6	AVG MAG		4.5
		+-	1.4	0.07		0.10		19					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		P	09	45	00.5		-0.2	4.56	202		4.8	4.6
			ES			58		1.6					
			E		46	24							
	GBZ		P	09	45	07		0.1	5.07	236		3.9	
	WTZ		P	09	45	09		-2.0	5.41	213		4.5	4.0
			ES		46	15		0.1					
	GNZ		P	09	45	11		-2.3	5.59	202		4.7	4.7
			E			29							
			S		46	18		-0.9					
			E			54							
	ONE		EP	09	45	15		0.6	5.68	244			
	KRP		P	09	45	21		1.5	6.10	222			
			E			31							
	CRZ		P	09	45	29		1.9	6.70	260			
	TRZ		S	09	46	47		0.8	6.82	206			
	MNG		P	09	45	45		-1.7	8.25	209			
			E		46	03							
			S		47	17		-1.6					
			E			52							
	WEL		S	09	47	37		-0.9	9.10	209	5.0		
	COB		S	09	47	56.5		0.9	9.88	217			
	CIZ		S	09	48	16		2.1	10.69	169			

	H	M	S										72/ 294
JUN 12	10	56	47.0	39.04S		174.99E		248 KM	SE	1.3	AVG MAG		4.4
		+-	0.6	0.03		0.05		6					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		IP	10	57	20.6	U	1.0	0.47	111			
			S			45		-0.0					
	TNZ		P	10	57	21.4		1.7	0.50	252			
	KRP		IP	10	57	23.7	D	0.5	1.19	21			
			S			50		-1.2					
	TRZ		P	10	57	27		1.4	1.52	111		4.5	5.0
			S			56.5		1.2					
	MNG		IP	10	57	28.1	U	1.7	1.63	167		4.8	4.5
			S			57		0.2					
	WTZ		P	10	57	28.1	D	-0.5	1.89	57			4.0
			S			59		-1.7					
	AUC		P	10	57	32		0.8	2.18	356			
	WEL		P	10	57	33.2	U	1.2	2.25	184	4.2	4.4	4.5
			S			58 07.5		0.6					
	GNZ		P	10	57	34		0.6	2.40	82		4.7	4.5
			S			58 07		-2.5					
	COB		IP	10	57	36.8	U	0.4	2.68	219		4.7	4.5
			S			58 14		-0.8					
	GBZ		P	10	57	37.9	D	-0.2	2.84	8		3.9	
	ECZ		P	10	57	39		-1.9	3.10	66		4.3	
	ONE		EP	10	57	44		1.0	3.29	351			
	KAI		S	10	58	48.5		-1.5	4.42	217	4.6		
	HJZ		P	10	58	16		0.4	6.00	213		3.6	3.8
			S		59	24		-0.9					
	ONZ		IP	10	58	26.5		1.5	6.75	205			
			E			33							
	HSZ		P	10	58	37		-0.4	7.71	221			
			S	11	00	01.5		-2.4					

	H M S								72/ 295
JUN 12	13 09 03.0	34.02S	178.29W	33 KM	SE	2.2	AVG MAG		4.3
	+- 2.4	0.13	0.11	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ EPN	13 10 10		2.4	4.48	214		4.4	4.1
	E	33							
	ESN	11 00		2.9					
	GNZ PN	13 10 21		-0.3	5.49	212		4.4	4.2
	SN	11 23		1.4					
	WTZ PN	13 10 21		-0.5	5.50	223		4.1	3.8
	SN	11 23		1.0					
	KRP EPN	13 10 33		0.2	6.34	230			
	SN	11 42.5		0.4					
	TRZ ESN	13 11 55		2.6	6.77	214			
	MNG EPN?	13 10 57		-1.3	8.24	215			
	E	11 04							
	SN	12 26		-1.5					
	WEL SN	13 12 44		-4.0	9.10	215	5.0		
	CIZ E	13 11 28			10.01	173			
	SN	13 09		-0.5					
	COB SN	13 13 07		-2.9	10.02	223			

	H M S								72/ 296
JUN 12	14 09 07.2	45.05S	167.09E	12 KM	SE	1.6	AVG MAG		3.8
	+- 1.0	0.03	0.06	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ P*	14 09 21		0.8	0.70	58		3.4	3.7
	PG	23		1.6					
	S*	32		2.2					
	HNW IP*	14 09 22.1	D	-0.2	0.82	153		4.4	4.3
	S*	34.5		1.0					
	ROX PN	14 09 33		-2.2	1.63	106		3.9	3.9
	P*	36		-0.1					
	PG	42		1.8					
	S*	58		0.2					
	SG	10 00		-2.2					
	WPZ PN	14 09 40		-0.4	2.03	143		3.9	3.9
	SN	10 06		1.0					
	MJZ PN	14 09 48		-0.9	2.64	67		3.3	3.6
	PG	58		-2.5					
	ESN	10 21		0.8					
	KAI E	14 10 51			4.01	53	3.9		
	SN	54		0.8					
	COB PN	14 10 29		-1.3	5.72	48		3.6	3.9
	SN	11 32		-2.3					
	MNG EPN	14 10 57		1.7	7.59	57			
	E	11 04							
	SN	12 19		0.2					

	H M S								72/ 297
JUN 13	00 56 38.2	47.88S	165.13E	33 KM	SE	1.7	AVG MAG		3.8
	+- 2.4	0.15	0.11	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	HNW PN	00 57 17.5		-0.9	2.70	40		4.5	3.9
	SN	49		-0.1					
	WPZ SN	00 57 52		0.5	2.80	65			4.1
	MSZ PN	00 57 33		0.3	3.74	32		3.7	3.5
	E	58 09							
	ESN	16		1.5					
	ROX PN	00 57 33.5		0.8	3.74	52			4.0
	SN	58 15.5		0.9					
	MJZ E	00 58 02			5.38	46		3.3	3.1
	ESN	51		-3.0					

	H	M	S									72/ 298
JUN 13	02	03	01.3	39.40S	174.55E	198 KM	SE	1.8	AVG MAG			4.2
	+-		0.9	0.05	0.05	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ		EP?	02	03	29		1.4	0.25	328			
			E			31							
			S			48		0.2					
	CNZ		P	02	03	30.8		1.1	0.80	76		4.4	4.5
			S			51.5		-0.2					
			E			54							
	MNG		IP	02	03	36.5	U	2.4	1.41	150		4.6	4.8
			S			59.5		-0.2					
	KRP		P	02	03	37		0.4	1.66	28			
			S		04	03		-0.8					
	TRZ		P	02	03	39.5		2.0	1.76	96		4.4	4.3
			S		04	07		1.5					
	WEL		P	02	03	40.5		1.7	1.89	175	4.2	4.4	4.5
			S		04	07		-0.7					
	WTZ		P	02	03	44		0.0	2.37	54		3.5	3.5
			S		04	14		-3.0					
	GNZ		P	02	03	51		1.9	2.81	75			
			S		04	23		-3.1					
	ECZ		P	02	03	59		0.8	3.56	63		4.5	4.1
			S		04	41		-1.2					
	KAI		S	02	04	48		-2.1	3.93	216	4.2		
	MJZ		P	02	04	23		0.1	5.51	212		3.1	3.7
			S		05	24		-2.3					
	MSZ		S	02	06	02		-4.2*	7.22	221			

	H	M	S									72/ 299
JUN 13	09	20	58.4	39.52S	174.34E	226 KM	SE	2.0	AVG MAG			4.5
	+-		0.9	0.07	0.08	9						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ		EP	09	21	32		3.8	0.34	6			
			S			51		-0.2					
	CNZ		P	09	21	32		1.0	0.99	71		4.7	4.9
			S			56		-0.3					
	MNG		IP	09	21	36.7	U	2.8	1.40	142		4.4	4.9
			S		22	01		-0.4					
	WEL		P	09	21	39.5		2.2	1.79	170	4.5	4.2	4.8
			S		22	07		-0.3					
	KRP		P	09	21	38.4		0.5	1.85	31			
			S		22	06		-2.3					
	TRZ		P	09	21	40.5		2.0	1.92	92		4.7	4.9
			S		22	09		-0.4					
	WTZ		EP	09	21	45.0	D	-0.2	2.58	54		4.3	3.8
			S		22	21		-0.5					
	KAI		S	09	22	44		-1.0	3.73	216	4.1		
	ECZ		P	09	21	59.5		0.5	3.77	62		5.0	4.3
			S		22	42		-3.9					
	GPZ								4.36	196	5.2		
	MJZ		P	09	22	20		1.9	5.32	212		3.5	3.7
			S		23	18		-2.1					
	ROX		ES	09	23	57		-1.8	7.01	210			
	MSZ		P	09	22	39		-0.8	7.02	221			
			S		23	56.5		-2.5					
	MNW		ES	09	24	23		2.0	7.97	216			

	H	M	S									72/ 300
JUN 14	01	59	07.9	38.06S	177.09E	98 KM	SE	2.2	AVG MAG			4.5
	+-		1.1	0.06	0.05	11						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP	01	59	19.1	D	-2.7	0.11	310			
	TUA		P	01	59	26.4		0.5	0.75	177		4.6	4.9
			S			40		0.5					
	GNZ		IP	01	59	27.0	U	-0.7	0.94	129		5.0	5.3
			S			41		-1.7					

	ECZ	P	01	59	30.3	U	-0.7	1.20	73	4.9	5.2
		S			49		0.7				
	KRP	IP	01	59	32.1	DE	0.7	1.24	276		
		S			49		-0.0				
	TRZ	E(P)	01	59	40		5.2	1.51	188	4.5	4.7
		ES	02	00	05		10.2*				
	GNZ	IP	01	59	38.8	J	2.1	1.67	226	4.5	
	GBZ	P	01	59	44		-0.2	2.24	324	3.7	3.6
		E			52						
	MNG	P	01	59	52		-0.6	2.85	206	4.4	4.2
		E	02	00	42						
	WEL	EP	02	00	05		0.9	3.69	208	4.4 4.3	4.6
		S			46.5		-0.3				
	COB	P	02	00	15		-0.6	4.53	227	4.3	4.3
		E		01	09.5						
	KAI	S	02	01	51		1.8	6.23	222	4.5	
		E			54						
	MJZ	S	02	02	22		-4.7	7.76	218		
		E			28						
	MSZ	E	02	03	06			9.55	223		
		S			10		-0.2				

72/ 301

	H	M	S									
JUN 15	03	36	45.3	30.18S		178.04E		33 KM	SE 5.0		AVG MAG	5.2
		+-	5.3	0.28		0.67		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP		P	03	38	45.5		9.2	8.00	194		
	GNZ		P	03	38	41		-2.3	8.45	180		
			S		40	13		-1.7				
	TUA		P	03	38	46.5		0.6	8.64	185		
			S		40	22		2.6				
	GNZ		P	03	38	56		2.3	9.23	192		
			ES		40	42		9.6				
	TRZ		E	03	40	36			9.41	186		
			S			39		1.4				
	MNG		P	03	39	07.5		-4.6	10.63	191		
			E		40	54						
			ES		41	02		-4.3				
	WEL		E	03	39	19			11.40	193	5.2	
			S		41	18		-6.4				
	COB		EP	03	39	23		-3.3	11.71	200		
			S		41	30.5		-1.1				

72/ 302

	H	M	S									
JUN 15	14	37	36.7	48.30S		164.74E		33 KM	SE 1.2		AVG MAG	4.3
		+-	1.3	0.09		0.09		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	MNW		PN	14	38	23.5		-0.2	3.19	39		4.4 4.4
			SN			59		-0.6				
			E		39	01						
	WPZ		PN	14	38	25		0.8	3.23	61		4.3 4.6
			SN		39	01		0.5				
	ROX		PN	14	38	38		0.3	4.22	50		4.1 4.1
			SN		39	24		-0.6				
			I			28						
	MSZ		PN	14	38	39		1.0	4.24	32		4.4 4.3
			ESN		39	26		1.0				
	ONZ		SN	14	39	52		0.5	5.33	55		4.3
	MJZ		EPN	14	38	59.5		-0.4	5.86	45		3.8 3.8
			EP*		39	15		-3.3				
			ES*		40	24		-10.6*				
	GDZ								7.17	53	4.7	
	COB		EPN	14	39	45		0.6	9.18	41		
			ESN		41	24		0.5				

	H M S								72/ 303
JUN 15	22 03 15.0	48.51S	164.70E	33 KM	SE 2.1		AVG MAG		4.6
	+- 2.0	0.15	0.15	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WPZ PN	22 04 03.5	U	-0.9	3.36	58		4.5	4.8
	SN	41		-1.1					
	MNW PN	22 04 04		-0.6	3.37	37		4.7	4.6
	SN	40.5		-1.9					
	ROX PN	22 04 17.5		-0.8	4.38	48		4.3	4.6
	SN	05 07		0.2					
	MSZ PN	22 04 18		-1.0	4.43	31		4.6	4.5
	SN	05 08		-0.1					
	OMZ PN	22 04 33		-0.1	5.48	53		4.2	4.6
	SN	05 32.5		-0.9					
	MJZ EPN	22 04 43		2.4	6.03	44			
	P*	56		-3.5					
	SN	05 45		-1.7					
	S*	06 08		-10.1*					
	GPZ				7.32	52	4.9		
	COB PN	22 05 25		-0.1	9.35	41			
	SN	07 10		3.9					
	MNG EPN	22 05 50		3.1	11.00	48			
	ESN	07 48		3.1					

	H M S								72/ 304
JUN 18	21 08 31.6	45.54S	167.73E	33 KM	SE 1.1		AVG MAG		3.8
	+- 0.6	0.02	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW P*	21 08 38.7		-0.1	0.27	205			
	I	40.2							
	MSZ IP*	21 08 48.0	U	-0.3	0.87	6			
	S*	09 00		-0.4					
	ROX P*	21 08 52.5		0.8	1.09	87		4.0	3.8
	S*	09 07		0.5					
	WPZ P*	21 08 57.0		0.9	1.35	147		4.1	3.8
	S*	09 14		-0.3					
	OMZ EP*	21 09 10		-1.6	2.26	79		3.7	3.9
	S*	40		-1.5					
	MJZ EP*	21 09 15.8		0.7	2.46	52		3.4	
	ES*	49		1.4					
	COB E	21 10 07			5.73	41			3.7
	ESN	11 02		5.0*					

	H M S								72/ 305
JUN 19	01 01 40.2	40.04S	175.24E	33 KM	SE 1.6		AVG MAG		3.8
	+- 0.5	0.02	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG P*	01 01 52.9		0.4	0.61	162			
	S*	02 01.2		-0.1					
	CNZ P*	01 01 57.7		0.7	0.87	16			
	ES*	02 07.3		-1.7					
	TNZ EPN	01 02 00.0		1.7	1.08	322		3.7	3.9
	ES*	15.0		0.1					
	E	18.5							
	WEL P*	01 02 02.5		-1.4	1.30	196	3.7	3.9	4.3
	S*	19		-2.4					
	TRZ EP*	01 02 07.0		2.9	1.31	69		3.9	4.0
	E	29							
	KRP EPN	01 02 12		-0.6	2.12	6		3.5	3.4
	EP*	18		0.1					
	S*	44		-2.0					
	COB EPN	01 02 14.5		1.3	2.18	240		4.1	4.0
	SN	39.5		1.1					

FELT OKOIA (57) MM IV

	H M S								72/ 306
JUN 19	23 48 39.3	40.82S	172.94E	245 KM	SE	1.8	AVG MAG		4.2
	+- 1.5	0.08	0.09	11					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	23 49 13.2		2.0	0.31	210			
	S	36		0.0					
WEL	P	23 49 18.9		1.8	1.46	109	3.9	4.0	4.3
	S	48.5		2.2					
MNG	P	23 49 22.3		1.2	1.95	85		4.4	4.6
	S	53		-0.4					
KAI	S	23 49 54.0		-1.2	2.05	213	4.3		
CNZ	P	23 49 26.3		-0.6	2.58	52		4.2	4.3
	E	57.5							
	S	50 02		-2.7					
GPZ	S	23 50 08.7		-1.8	2.88	184	4.0		
HJZ	EP	23 49 40		0.7	3.65	209		3.6	
	S	50 26		0.1					
TUA	ES	23 50 28		-1.3	3.82	60		4.7	

	H M S								72/ 307
JUN 20	10 31 31.4	37.54S	175.68E	12 KM	SE	1.9	AVG MAG		3.7
	+- 0.5	0.02	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IPG	10 31 39.8	D	0.0	0.40	196			
AUC	PG	10 31 51.0		-0.5	0.99	313			
	SG	32 04.5		-0.4					
WTZ	EPG	10 31 51.5		-2.8	1.13	114		3.7	3.4
	IP*	53.3		2.0					
	SG	32 09.3		0.2					
GBZ	EP*	10 31 55.0		-0.2	1.33	353		3.8	3.7
	EPG	57.3		-0.6					
	E	32 01							
	ESG	17		0.7					
CNZ	E	10 32 08			1.66	184		3.9	3.5
	PG	02.7		-2.3					
	SG	25.6		-1.8					
TNZ	EP*	10 32 05		-0.6	1.94	211		3.5	3.4
	EPG	10		-0.6					
	E	45							
ONE	E	10 32 16			2.06	329			
	E	41							
GNZ	EPG	10 32 14		-0.9	2.15	122		4.1	
	E	23							
MNG	EPN	10 32 23.2		4.2	3.08	183		3.6	3.3
	P*	27.8		2.7					
	SG	33 16		0.9					
COB	E	10 32 38			4.21	212		3.9	
	EP*	51		6.4*					

TE AROHA AFTERSHOCK, FELT WESTERN BAY OF PLENTY. MAXIMUM REPORTED INTENSITY MM V AT MT MAUNGANUI (26)

	H M S								72/ 308
JUN 20	11 11 23.2	37.54S	175.68E	12 KM	SE	1.4	AVG MAG		4.0
	+- 0.3	0.02	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IPG	11 11 31.6		0.0	0.40	193			
	I	34.3							
AUC	IPG	11 11 42.5		-0.5	0.97	314			
	ISG	56.5		0.3					
WTZ	EP*	11 11 43.8		-0.2	1.15	113		4.1	3.8
	IPG	46.1		-0.5					
	SG	12 02		-0.1					
GBZ	EP*	11 11 47.0		0.0	1.32	354		4.2	4.4
	IPG	49.2		-0.9					
	ESG	12 08.5		0.5					
CNZ	EP*	11 11 53.2		0.4	1.66	183		4.3	
	IPG	54.7		-2.2					

	TNZ	EP*	11	11	57	-0.3	1.93	211	3.7	
		EPG		12	01	-1.3				
	ONE	E	11	12	02		2.04	329	3.1	
		EPG			07	2.4				
		ESG			30	-2.1				
	GNZ	E	11	12	05		2.17	121		
		E			10					
	MNG	E	11	12	15.8		3.08	182	4.1	3.7
		IP*			19.2	2.2				
		I			24.2					
		ESG		13	06	-1.1				
	WEL	EP*	11	12	31	1.5	3.81	190	4.2	
	COB	EPN	11	12	28	1.9	4.21	212	3.9	

TE AROHA AFTERSHOCK, FELT

	H	M	S									72/ 309
JUN 20	16	09	57.2	37.52S	175.70E	12 KM	SE	1.7	AVG MAG			4.5
		+_	0.4	0.02	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		PG	16	10	05.1		-1.0	0.43	197			
	AUC		PG	16	10	17.5		0.4	0.99	311			
	WTZ		EP*	16	10	16.8		-0.7	1.12	115		4.9	4.4
			IPG			19.1		-0.9					
			I			19.9							
			I			22.3							
			SG			35.3		0.1					
	WNZ		EP*	16	10	18		-0.1	1.16	164		4.6	4.6
			EPG			22		1.3					
			ESG			34		-2.4					
	GBZ		EP*	16	10	21.0		0.4	1.31	352			
			IPG			23.5		-0.2					
	CNZ		EP*	16	10	26.2		-0.9	1.69	184			
			I			27.3							
			IPG			29.0		-2.3					
	TUA		EPG	16	10	33.5		1.4	1.72	139		4.4	
	TNZ		P*	16	10	30.5		-1.4	1.96	211		4.3	
			IPG			35.0		-2.0					
	ONE		EP*	16	10	34		0.8	2.04	328	4.1		
			EPG			39		0.4					
			E			41							
			ESG		11	03		-3.1					
	GNZ		EP*	16	10	35.5		0.4	2.15	122		4.9	
			E			43.8							
			E		11	18							
	ECZ		EP*	16	10	38.5		1.4	2.27	95		4.5	
			EPG			42		-1.1					
	MNG		EPN	16	10	47.5		2.4	3.10	183		4.8	4.4
			IP*			53.0		1.6					
			SG		11	39.5		-2.3					
	WEL		E	16	10	01.5			3.83	191	4.5	4.6	4.4
			IP*		11	05.0		1.1					
			ES*		12	01		6.9*					
	COB		EPN	16	11	01		0.5	4.24	212		4.3	4.0
			EP*			15		4.1					
			ESN			51		2.2					

TE AROHA AFTERSHOCK, FELT COROMANDEL PENINSULA AND WESTERN BAY OF PLENTY. MAXIMUM REPORTED INTENSITY MM VI AT TAURANGA (26). THIS SHOCK INITIATED A SECONDARY AFTERSHOCK SEQUENCE. SEVEN WERE REPORTED FELT AT TE AROHA, BUT NO TIMES OR INTENSITIES WERE GIVEN

	H	M	S									72/ 310
JUN 20	16	12	47.7	37.56S	175.70E	12 KM	SE	1.4	AVG MAG			3.5
		+_	0.4	0.02	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		PG	16	12	56.5		0.7	0.39	199			
			SG		13	00.5		-0.7					
	AUC		PG	16	13	09		0.8	1.01	313			

	ESG		23	1.1						
WTZ	PG	16	13	10.0	-0.2	1.11	113		3.3	3.2
	SG			26.0	0.8					
GBZ	PG	16	13	13.8	-1.2	1.35	353		3.5	3.8
	SG			32.5	-0.8					
CNZ	PG	16	13	18.8	-2.2	1.64	184		3.9	
TNZ	EPG	16	13	26	-0.7	1.93	212		3.5	
GNZ	E	16	13	38		2.13	121			
MNG	P*	16	13	43.5	2.4	3.06	183		3.6	
	E		14	30						

72/ 311

	H	M	S									
JUN 20	18	58	59.9	37.53S	175.68E	12 KM	SE	1.3	AVG MAG		3.0	
	+-		0.5	0.02	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KOP	PG			18	59	08.1		-0.4	0.41	196			
	I					11.3							
	SG					13.1		-1.0					
WTZ	EPG			18	59	22.8		-0.1	1.13	114		3.1	2.9
	SG					38		-0.3					
GBZ	PG			18	59	26.2		-0.6	1.32	353		3.1	3.2
	SG					44.8		0.2					
MNG	EP*			18	59	56		2.2	3.09	183		3.0	

72/ 312

	H	M	S									
JUN 21	11	05	50.3	41.23S	174.67E	12 KM	SE	0.7	AVG MAG		3.3	
	+-		0.3	0.02	0.01	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P*			11	05	52.7		-0.2	0.09	128	2.4		
	S*					55.2		0.5					
MNG	P*			11	06	05.9		-0.2	0.87	45		3.4	3.2
	S*					17.3		-0.6					
COB	EP*			11	06	15.5		-1.0	1.47	275		3.9	3.6
	S*					36.7		0.6					
CNZ	EP*			11	06	28.0		0.1	2.14	19		3.3	3.4
	ES*					56.8		0.7					
	E				07	01							

FELT WELLINGTON (68) MM IV

72/ 313

	H	M	S									
JUN 21	18	50	43.0	44.40S	168.25E	12 KM	SE	1.5	AVG MAG		4.0	
	+-		0.7	0.04	0.05	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	P*			18	50	49.3		-0.8	0.36	222			
	E					50.2							
ROX	P*			18	51	07.2		0.6	1.32	145		3.9	4.3
	I					09.5							
	S*					24.2		-0.0					
	I					25.5							
MNW	EPN			18	51	08.0		-0.7	1.45	198		4.0	4.0
	IP*					09.9		1.0					
	S*					30.0		1.7					
ONZ	EPN			18	51	14.0		-2.1	2.01	110		4.0	4.2
	EP*					17.0		-1.5					
	E					45.3							
MAI	ESN			18	52	06		2.0	2.97	52	3.6		
	ES*					14		0.2					
COB	EPN			18	51	50		-2.2	4.68	46		3.9	3.9
	E				52	39							
	ESN					45		-0.0					
MNG	EPN			18	52	19		1.8	6.54	57			

72/ 314

	H	M	S									
JUN 22	00	27	56.1	40.57S	173.35E	164 KM	SE	1.8	AVG MAG		4.0	
	+-		1.0	0.06	0.07	10						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IP			00	28	22.8		2.5	0.70	223		4.7	
	S					39.5		0.6					

	WEL	P	00	28	26.7		1.8	1.28	124	4.0	4.2	4.5
		S			46.8		-0.3					
	TNZ	ES	00	28	50		-2.6	1.59	30			3.9
	MNG	IP	00	28	29.2	U	1.0	1.62	92		4.1	4.4
		S			51.2		-1.8					
	CNZ	P	00	28	35.2		0.8	2.17	52		4.1	4.4
		E			55							
		ES		29	05		1.0					
	KRP	EP	00	28	46.0		-0.4	3.14	33		3.4	3.4
		E		29	18							
		E			20							
	MJZ	EP	00	28	58		0.1	4.03	211		3.4	3.4
		S		29	43.2		-2.3					
	MSZ	EP	00	29	19.7		-0.5	5.73	223		4.0	
		E		30	14							

	H	M	S								72/ 315
JUN 22	04	27	13.9	45.00S	167.60E	91 KM	SE	0.7	AVG MAG		3.9
	+-		0.8	0.02	0.04	6					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP	04	27	29.0		0.7	0.40	35			
	S			39		-0.2					
MNW	P	04	27	31.3		-0.3	0.78	179		4.0	4.1
	S			44.5		-0.4					
ROX	P	04	27	39.0		1.1	1.31	112		4.2	3.9
	S			56.2		0.3					
WPZ	ES	04	28	08.0		-0.1	1.88	153			3.7
MJZ	P	04	27	49.5		-1.1	2.29	65		3.5	3.5
	S		28	18		0.1					
OMZ	IP	04	27	52.0		0.5	2.35	93		4.5	3.9
	ES		28	19		-0.6					

	H	M	S								72/ 316
JUN 22	22	04	44.1	39.51S	175.64E	180 KM	SE	0.5	AVG MAG		4.2
	+-		0.7	0.02	0.02	5					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ	EP	22	05	11		-0.3	0.91	93			
	E			19							
TNZ	EP	22	05	11.8		-0.3	1.03	288		3.9	4.3
	S			34		0.2					
MNG	P	22	05	13.7		0.8	1.12	186		4.0	4.0
	I			22.8							
	S			35		-0.1					
TUA	P	22	05	15.0		-0.0	1.37	60		4.4	4.6
	S			39		0.1					
WTZ	E	22	05	26.0			1.85	35			
	E			55.0							
WEL	E	22	05	22			1.90	200	4.1	3.9	4.4
	S			48		-0.3					
GNZ							2.04	66		4.4	4.5
COB	E	22	05	39			2.73	234		4.1	4.4
	I			43.5							
	E		06	26.5							

	H	M	S								72/ 317
JUN 23	00	12	49.5	35.23S	179.29E	267 KM	SE	1.1	AVG MAG		4.6
	+-		1.6	0.07	0.13	15					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	P	00	13	45.2		-1.0	3.25	251		4.3	
	I			47.8							
WTZ	P	00	13	46.3		-0.6	3.31	213		4.5	
	I			48.5							
	E		14	31							
GNZ	EP	00	13	50		0.5	3.55	196		5.1	
	S		14	36.0		-0.2					
TUA	ES	00	14	45		0.6	3.96	205			4.6
KRP	P	00	13	57		1.9	4.04	227		3.7	
MNG	EP	00	14	20		-0.6	6.16	208			

		E			24.3						
		ES		15	31		-0.9				
	WEL	S	00	15	51		0.1	7.01	209	5.4	
	COB	S	00	16	09		0.4	7.80	220		

	H	M	S									72/ 318
JUN 23	02	56	40.1	37.52S		175.65E		12 KM	SE	1.1	AVG MAG	3.1
	+_		0.4	0.02		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP		PG	02	56	48.7		-0.1	0.42	194		
			E			51.7						
			SG			53.7		-0.9				
	WTZ		EPG	02	57	03		-0.4	1.15	114	2.9	3.0
			SG			19		0.0				
	GBZ		EPG	02	57	06.0		-0.6	1.31	354	3.2	3.3
			SG			24.5		0.2				
	MNG		EP*	02	57	36.0		1.8	3.10	183	3.2	

	H	M	S									72/ 319
JUN 23	07	29	14.6	37.53S		175.69E		12 KM	SE	1.3	AVG MAG	3.3
	+_		0.5	0.02		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP		PG	07	29	22.8		-0.4	0.41	197		
			E			25.9						
			SG			27.6		-1.3				
	AUC		EPG	07	29	35.8		1.0	0.99	312		
	WTZ		PG	07	29	37.5		0.1	1.12	114	3.3	3.1
			SG			52.5		-0.1				
	GBZ		PG	07	29	40.5		-0.9	1.32	353	3.3	3.3
			SG			59		-0.3				
	MNG		EP*	07	30	10.5		2.0	3.09	183	3.4	

	H	M	S									72/ 320
JUN 23	08	40	33.8	37.57S		175.59E		12 KM	SE	1.3	AVG MAG	4.1
	+_		0.4	0.02		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP		PG	08	40	42.9		1.6	0.36	185		
	AUC		PG	08	40	55.5		2.3	0.96	318		
	WTZ		EP*	08	40	56.0		0.8	1.19	111	4.3	4.2
			PG			57.7		-0.3				
			SG		41	13.1		-1.0				
	GBZ		EP*	08	40	57.5		-0.5	1.35	357	4.1	4.1
			IPG		41	00.0		-1.2				
			SG			19		-0.5				
	TUA		EPG	08	41	10		0.8	1.75	135	3.9	
	TNZ		EPG	08	41	10		-1.7	1.87	210	4.1	
			E			15.2						
	ONE		E	08	41	17			2.04	331	3.4	
			E			36						
	GHZ		E	08	41	17.5			2.20	120	4.3	
			EPG			19.8		1.4				
			E			54						
	MNG		EP*	08	41	25.8		-1.2	3.04	181	4.4	3.9
			PG			30.2		-5.2*				
			ESG		42	15		-0.5				
	WEL		E	08	41	42			3.76	189	4.3	
	COB		E	08	41	39			4.15	211	4.0	
			E			52						

FELT DISTRICT SOUTH OF COROMANDEL PENINSULA, MM IV

	H	M	S									72/ 321
JUN 24	11	51	30.0	41.68S		171.95E		12 KM	SE	1.1	AVG MAG	3.7
	+_		0.4	0.03		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	COB		P*	11	51	45.4		0.1	0.83	45	4.2	
			S*			57.5		0.9				
	GPZ		EP*	11	52	07		0.4	2.07	166	3.4	
			SN			28.5		-0.4				

	WEL	EPN	11 52 07.0		2.2	2.15	80		3.6	3.6
		EP*		09.3	1.5					
		S*		36	-0.1					
	MJZ	EPN	11 52 10.5		-0.1	2.55	205		3.5	
		SN		42	1.0					
	MNG	EPN	11 52 14.0		-0.8	2.86	69		4.0	3.9
		IP*		19.0	-1.1					
		ES*		56	-1.7					
	MSZ	EPN	11 52 32		-0.8	4.20	223		3.5	3.5
		ESN		53 20	-0.6					
	KRP	EP*	11 52 50		-0.7	4.65	37			
		E		57						
		E		59						

	H M S								72/ 322
JUN 25	01 51 47.2	47.17S	166.11E	12 KM	SE 1.4		AVG MAG		3.8
	+- 1.5	0.07	0.07	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW P*	01 52 17.0		-0.9	1.73	37		4.0	3.6
	S*	43.0		2.1					
	WPZ EP*	01 52 20.5		-1.0	1.94	76		3.8	3.8
	S*	48		0.8					
	ROX EPN	01 52 31		-0.0	2.79	54		3.8	3.9
	ES*	53 11		-1.8					
	MSZ EPN	01 52 32.3		1.2	2.80	27		3.9	3.7
	IP*	35.3		-0.8					
	ES*	53 12		-0.8					
	I	17.7							
	OHZ EP*	01 52 57		1.3	3.94	60		3.9	

	H M S								72/ 323
JUN 25	03 52 18.4	44.26S	167.87E	12 KM	SE 1.3		AVG MAG		3.6
	+- 1.8	0.08	0.05	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ P*	03 52 27.0		0.5	0.41	175			
	I	30							
	MNW P*	03 52 45.8		0.2	1.53	187		3.7	3.8
	S*	53 04.8		-1.2					
	ROX EP*	03 52 48.3		1.6	1.59	140		3.6	3.5
	S*	53 08.8		0.9					
	OHZ EP*	03 52 58		-1.1	2.32	112		3.6	3.5
	ES*	53 29		-0.7					
	WPZ E	03 53 44			2.50	164			

	H M S								72/ 324
JUN 25	06 28 51.8	38.14S	176.25E	12 KM	SE ND		AVG MAG		2.9
	R	R	R	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ EPG	06 29 04.0		-0.0*	0.60	75		2.6	
	KRP PG	06 29 03.8		-0.5*	0.61	290		3.2	
	I	06.2							
	MNG EP*	06 29 40		3.5*	2.55	193		2.9	
	FELT ROTORUA (33) MM IV								

	H M S								72/ 325
JUN 25	07 41 59.3	45.06S	167.58E	94 KM	SE 1.0		AVG MAG		4.1
	+- 0.9	0.03	0.04	7					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ IP	07 42 15.1		0.8	0.45	32			
	S	25.9		0.1					
	MNW P	07 42 16.1		-0.5	0.72	178		4.4	4.6
	S	28.5		-1.3					
	ROX P	07 42 24.7		1.4	1.30	110		4.2	4.4
	S	41.7		0.5					
	WPZ P	07 42 30.0		0.1	1.83	152		4.0	4.0
	ES	53		0.5					
	MJZ EP	07 42 35.3		-0.7	2.32	64		3.3	3.5
	S	43 04.5		0.2					

	OHZ	P	07	42	37.8	0.7	2.36	92		4.2	4.3
		ES		43	05	-0.2					
	GPZ	ES	07	43	41	-1.5	3.87	71	4.1		

	H	M	S								72/ 326
JUN 25	12	02	50.5	45.12S	167.67E	120 KM	SE	1.4	AVG MAG		3.9
	+-		1.3	0.05	0.05	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP		12	03	09.2	U	0.6	0.48	22			
		S				23.2		0.8					
	MNW	P		12	03	09.3		-0.5	0.66	183		3.7	4.5
		S				23.1		-1.5					
	ROX	P		12	03	16.0		0.8	1.22	107		3.6	3.8
		S				35		0.9					
	WPZ	P		12	03	20.8		-0.5	1.75	152		4.2	3.9
		S				44.7		0.1					
	MJZ	P		12	03	27.6		-0.8	2.30	61		3.5	3.6
		S				56.0		-0.9					
	OHZ	EP		12	03	31		2.7	2.30	90		3.8	4.0
		S				57		0.0					
	GPZ	ES		12	04	32		-1.6	3.84	70	3.9		

	H	M	S								72/ 327
JUN 27	18	10	08.8	37.56S	175.49E	12 KM	SE	1.6	AVG MAG		3.3
	+-		0.7	0.03	0.09	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	PG		18	10	18.9		-0.6	0.37	175			
		E				19.2							
		SG				20.6		-1.1					
	AUC	ESG		18	10	39		-0.3	0.90	320			
		E				45							
	GBZ	EPG		18	10	37.0		1.1	1.34	360		3.3	3.2
		SG				53.0		-0.9					
	MNG	EP*		18	11	04		1.8	3.06	180		3.3	
		E				48							

	H	M	S								72/ 328
JUL 01	07	40	16.8	37.50S	175.80E	12 KM	SE	1.4	AVG MAG		4.0
	+-		0.5	0.02	0.04	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P*		07	40	24.2	USW	-1.7	0.47	206			
		E				29							
	AUC	P*		07	40	36.8	U	1.2	1.04	308			
		ESG				54		2.0					
	GBZ	PG		07	40	42.0		-1.3	1.31	349		4.1	4.3
		ESG			41	00		-1.0					
	TUA	E		07	40	59			1.68	141		3.6	
	ONZ	EPN		07	40	46		0.2	1.71	187			
		ESG			41	14		-0.4					
	TNZ	EPN		07	40	49		-0.9	2.02	213		3.9	
	ONE	EPG		07	41	00		1.2	2.08	326	3.4		
		ESG				25.5		-1.3					
	GNZ	EPG		07	41	00		0.8	2.09	124		4.5	4.2
		E				02.5							
		E				40							
	MNG	EPN		07	41	07		2.0	3.12	184		4.2	3.7
		EP*				12		0.7					
		E				56							
	COB	EPN		07	41	20		-0.9	4.30	213		3.9	3.8
		ESN			42	09		-0.7					

FELT COROMANDEL (18) TAIRUA AND WAIHI BEACH (21) MM IV

	H	M	S								72/ 329
JUL 01	08	11	53.5	37.49S	175.73E	12 KM	SE	1.4	AVG MAG		4.1
	+-		0.4	0.02	0.04	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P*		08	11	59.8	WSW	-2.7	0.46	199			
	AUC	EP*		08	12	13.5		2.2	0.98	309			

WNZ	EPG	08	12	18	0.6	1.18	166		4.4	
GBZ	PG	08	12	18.5	-0.9	1.28	351		4.2	4.2
	ESG			37.5	0.7					
CNZ	EP*	08	12	22.5	-1.4	1.72	185			
TUA	EPN	08	12	22.5	-0.3	1.73	140		3.8	3.9
	ESG			52	0.1					
TNZ	EPN	08	12	26	-0.4	2.00	212		3.9	
	E			30						
ONE	EP*	08	12	30	0.7	2.03	327	3.6		
	ESG			13 01	-0.9					
GNZ	EP*	08	12	30	-1.3	2.15	123		4.5	
	EPG			38	1.0					
MNG	EPN	08	12	43	1.2	3.13	183		4.3	3.7
	EP*			48	-0.2					
	ES*			13 32	2.7					
WEL	P*	08	13	00	-0.7	3.87	191	4.1	4.4	4.0
	E			57						
COB	PN	08	12	57	-0.3	4.28	212		4.0	3.8
	ES*			13 57	-5.8*					

FELT WAIHI BEACH (21) MM IV TAURANGA (26) MM III

H M S 72/ 330

JUL 01 08 22 00.6 40.05S 176.69E 33 KM SE 1.1 AVG MAG 3.8

+_ 0.7 0.03 0.04 R

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ	PN	08	22	11.4		0.5	0.51	11		4.1	4.6
	ESN			19		0.7					
MNG	IPN	08	22	20.1		1.3	1.08	238		3.7	3.9
	E			27							
CNZ	P*	08	22	21.5		-1.7	1.23	314		3.4	3.2
	ESN			35		-0.8					
TUA	E	08	22	30			1.29	16		3.7	3.8
	ES*			42		0.3					
GNZ	E	08	22	41.5			1.75	37		4.1	3.9
	ESN			47.5		-0.8					
	E		23	14							
WEL	E	08	22	40.5			1.91	229	3.4	4.0	3.8
	ES*		23	05.5		3.4*					
TNZ	EPN	08	22	32		0.8	1.99	295		4.0	3.7
	E		23	07							
KRP	EPN	08	22	35		-0.6	2.31	337		3.6	3.6
	ES*		23	13		1.0					
COB	EP*	08	22	55		-1.5	3.19	250		3.7	3.8
	ES*		23	39		0.7					

FELT WAIPAWA (60) MM IV

H M S 72/ 331

JUL 01 10 22 14.3 33.52S 179.13W 260 KM SE 1.9 AVG MAG 5.1

+_ 1.7 0.08 0.10 28

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	EP	10	23	35		2.0	5.17	237		4.4	
GNZ	EP	10	23	36		-2.4	5.61	203		5.3	4.9
	E			39							
	ES		24	43		-1.1					
ONE	EP	10	23	42		1.2	5.80	245	5.0		
TUA	P	10	23	44.3		0.2	6.07	209			
	ES		24	55		0.5					
KRP	EP	10	23	46		0.7	6.17	223			
CRZ	EP	10	23	55		1.1	6.85	260			
	ES		25	10		-1.9					
TNZ	EP	10	24	08		3.4	7.70	221			
MNG	P	10	24	09.0		-3.0	8.28	210			
	E			10.9							
	E		25	36							
	ES			45		0.8					
WEL	P	10	24	21.2		-1.5	9.14	210	5.6		
	ES		26	03		-0.6					
COB	EP	10	24	31		-1.8	9.94	218			

		ES			26	23		1.2				
	CIZ	E		10	24	52			10.61	170		
		ES			26	38		0.9				

	H	M	S									72/ 332
JUL 02	05	37	50.7	45.75S		166.24E		33 KM	SE	2.2	AVG MAG	4.3
		+-	2.0	0.08		0.11		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	MNW		IPN	05	38	06.0	U	-1.3	0.97	92		4.7 4.7
			ESN			16		-3.5				
	MSZ		EPN	05	38	14		-2.0	1.60	48		4.1 4.3
			P*			19.7		0.1				
			ESN			32		-3.0				
	WPZ		PN	05	38	23.1		1.2	2.03	118		4.4 4.3
			ESN			47		1.6				
	ROX		P*	05	38	26.5		-2.8	2.18	84		4.4 4.2
			ESN			50		1.0				
	OHZ		EPN	05	38	41		0.8	3.37	80		4.4 4.3
			ES*		39	34		0.2				
	HJZ		EPN	05	38	44		2.2	3.49	61		4.0 3.7
			EP*			52		0.3				
			ESN		39	24		3.2				
	KAI		E	05	39	26			4.92	51	3.9	
	COB		E	05	39	33			6.64	48		
			ESN		40	39		2.1				

	H	M	S									72/ 333
JUL 02	17	53	01.4	38.67S		178.74E		12 KM	SE	1.6	AVG MAG	4.2
		+-	1.4	0.06		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	GNZ		IP*	17	53	14.3	UNW	2.3	0.56	273		5.1 5.1
			ES*			20		0.1				
	TUA		EPN	17	53	24		-0.4	1.25	263		4.1 4.4
			E			31						
	WTZ		PN	17	53	26.7		-1.5	1.54	296		4.4
			EPG			31		-1.6				
	TRZ		EPN	17	53	33		2.3	1.73	239		4.5
			E			40						
	KRP		EPN	17	53	43.5		0.5	2.63	286		3.5
			EPG			56		1.5				
	MNG		PN	17	53	50.0		-0.3	3.18	231		3.8 3.8
			ESN		54	28		0.9				
	WEL		ESN	17	54	47.5		0.1	4.01	228	4.2	4.0
	COB		EPN	17	54	16		-1.7	5.21	241		3.8 3.8
			ESN		55	14		-2.2				

	H	M	S									72/ 334
JUL 02	20	13	24.8	45.01S		167.55E		33 KM	SE	1.3	AVG MAG	4.9
		+-	0.9	0.03		0.05		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	MNW		IPN	20	13	39.2	D	0.6	0.77	176		
	ROX		PN	20	13	47.9		1.6	1.34	111		5.1 5.1
			ESN		14	05		2.5				
	WPZ		IPN	20	13	52.8		-1.1	1.89	152		4.8 4.9
			ESN		14	14		-1.8				
	HJZ		EPN	20	14	00		0.1	2.32	65		4.2 4.5
			E			12						
			ESN			26		-0.5				
	OHZ		IPN	20	14	00.9	D	0.1	2.39	93		5.5 5.7
			ESN			28		-0.1				
	KAI		E	20	14	25			3.74	50	4.6	
			ESN		15	02		1.0				
	COB		EPN	20	14	43		0.4	5.46	46		4.6 4.6
			ESN		15	42		-0.6				
	WEL		ESN	20	16	11		4.4*	6.46	57		
	MNG		EPN	20	15	08		0.6	7.30	56		
			E			56						
			ESN		16	25		-1.7				

	CIZ	E	20 16 18				11.40	90					
		ESN	18 03			-0.9							
FELT SOUTHLAND, MAXIMUM INTENSITY MM V													
	H M S												72/ 335
JUL 03	07 34 15.6		41.98S	174.31E		12 KM	SE	1.7	AVG MAG				4.4
	+- 0.5		0.04	0.03		R							
			H M S		DIR	RES	DIST	AZ	W-A	W P		W S	
	WEL	IP*	07 34 29.0		DE	-0.9	0.77	26	4.5	5.1		4.9	
		E	35.5										
	COB	IPN	07 34 42.5		D	0.8	1.48	306		4.8		4.9	
		ESN	35 01			-0.1							
	MNG	IPN	07 34 43.7		D	0.2	1.62	33		4.3		4.7	
		ESN	35 01.5			-2.6							
	KAI	EP*	07 34 57			2.2	2.22	255	4.2				
		ESG	35 33			2.3							
	TNZ	EP*	07 35 03			-1.5	2.79	1		4.3		4.3	
		ES*	41			-0.2							
	TRZ	P*	07 35 12			2.5	3.08	39				5.0	
		PG	19.7			1.7							
	MJZ	EP*	07 35 15			-1.0	3.46	233		4.2		3.9	
		EPG	26			0.3							
		ESG	36 11			-1.4							
	TUA	E	07 35 29.3				3.84	35		4.4		4.3	
		ESG	36 27			2.0							
	KRP	PN	07 35 19			1.2	4.16	13		4.4		4.3	
		E	36 11										
	GNZ	E	07 35 27				4.38	42		4.5		4.4	
		EPG	42			-2.1							
		E	47										
		ESN	36 09			-1.4							
	WTZ	PN	07 35 22			-0.3	4.49	28		4.1			
		E	40										
	MSZ	EP*	07 35 46			-2.9	5.38	238		3.9		4.1	
		E	36 51										
	CIZ	E	07 36 02				6.97	109					
		ESN	37 14			1.4							
	H M S												72/ 336
JUL 03	21 39 36.7		40.26S	173.80E		12 KM	SE	1.5	AVG MAG				3.8
	+- 0.5		0.03	0.03		R							
			H M S		DIR	RES	DIST	AZ	W-A	W P		W S	
	COB	IPN	21 39 59.7		U	1.3	1.15	224		4.2		4.0	
		E	40 10										
		ESN	15.5			1.0							
	TNZ	EPG	21 40 01			0.6	1.17	23		3.0		3.7	
		ESG	17			0.9							
	WEL	EPG	21 40 03			0.7	1.26	144	3.4	3.5		4.4	
		ESN	17			0.0							
	MNG	IPN	21 40 02.1		D	1.3	1.33	106		4.1		3.9	
		ESN	20			1.3							
	CNZ	ES*	21 40 30			0.0	1.72	52					
	KRP	EPN	21 40 19			-0.3	2.70	31		3.3		3.6	
		ESN	51			-0.3							
	KAI	ESN	21 40 53			-2.8	2.89	218	3.4				
	TUA	ESN	21 40 57			-0.9	2.97	62				3.9	
	GNZ	ESN	21 41 11			-2.9	3.65	65				4.4	
	H M S												72/ 337
JUL 04	06 02 01.0		41.25S	174.75E		12 KM	SE	ND	AVG MAG				3.3
	R		R	R		R							
			H M S		DIR	RES	DIST	AZ	W-A	W P		W S	
	WEL	PG	06 02 02.0			-1.3*	0.04	159	2.9				
		ESG	03			-1.9*							
	MNG	IP*	06 02 16.7		U	0.3*	0.84	42		3.5		3.0	
		ES*	28			0.1*							
	COB	EPN	06 02 28			0.3*	1.53	275		3.8		3.5	
		ESN	48			0.6*							

FELT NEWTOWN (68) MM III - IV

	H M S									72/ 338
JUL 04	08 32 52.3	40.38S	174.20E	33 KM	SE 1.0		AVG MAG			3.7
	+- 0.3	0.02	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
WEL	P*	08 32 51.4		0.4	1.00	155	3.1	3.5	3.7	
	ESN	33 03		1.0						
MNG	IPN	08 32 49.2	U	-0.2	1.01	104		3.9	3.8	
	P*	50.2		-0.9						
	ESN	33 03		1.0						
TNZ	EPN	08 32 52		0.0	1.20	7		3.5	3.5	
	ESN	33 08		1.3						
COB	IPN	08 32 52.9	U	-0.8	1.32	237		4.2	4.6	
	ESN	33 10		0.3						
KRP	PN	08 33 11.7	DSE	-0.4	2.66	23		3.7	3.5	
	ESN	43		0.7						
KAI	E	08 33 19			3.00	223	3.8			
	ESN	50		-0.6						
WTZ	EP*	08 33 25		-3.8*	3.23	43		3.1		
GNZ	ESN	08 33 59		-1.9	3.43	61			4.0	

	H M S									72/ 339
JUL 04	11 12 03.2	41.96S	173.84E	12 KM	SE 1.6		AVG MAG			3.6
	+- 0.8	0.05	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
WEL	P*	11 12 20.3		-0.5	0.96	46	3.2	3.8	3.9	
	ES*	33		-0.8						
COB	PN	11 12 25.9	D	0.3	1.20	316		3.6	3.4	
	ESN	41		-1.1						
MNG	IPN	11 12 33.8	U	0.1	1.82	43		4.1	3.6	
	ES*	13 01		1.5						
KAI	ESG	11 13 10		2.8	1.90	252	2.9			
TNZ	ES*	11 13 28		-0.9	2.80	9			3.4	
MJZ	E	11 13 12			3.20	230		3.2	2.8	
	ESG	49		-2.3						
KRP	EP*	11 13 16		-0.7	4.23	18		3.5		
GNZ	E?	11 13 31.5			4.60	45		4.9		
WTZ	EP*	11 13 25.5		1.7	4.64	32		3.6		

	H M S									72/ 340
JUL 04	12 52 16.4	38.40S	176.09E	184 KM	SE 1.6		AVG MAG			4.7
	+- 0.7	0.03	0.04	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
WNZ	P	12 52 41.4		0.3	0.23	178				
	E	49								
KRP	IP	12 52 42.7	DSW	0.1	0.65	317		4.8	4.5	
	ES	53 00		-2.7						
WTZ	IP	12 52 43.4	U	-0.1	0.82	60		4.6	4.5	
	E	53								
	E	58								
TUA	P	12 52 46.0		1.8	0.92	116				
TRZ	EP	12 52 49		1.9	1.28	154				
GNZ	P	12 52 51.0		1.6	1.53	100		5.1	5.3	
	E	53 06.5								
	ES	13		-1.8						
TNZ	P	12 52 51.1	U	1.6	1.55	239		4.3	4.0	
	ES	53 18		2.9						
AUC	P	12 52 54.0	D	1.3	1.86	325				
GBZ	IP	12 52 56.1		-0.7	2.23	347		4.9		
MNG	IP	12 52 58.4	U	1.3	2.26	192		5.2	5.1	
	ES	53 27		-1.4						
ONE	EP	12 53 05.5		-0.0	2.96	332	4.2			
	ES	43		-0.3						
WEL	P	12 53 06.4		-0.1	3.06	199	5.0	5.1	5.0	
	ES	44		-1.2						
COB	P	12 53 13.2		-1.7	3.73	223		4.6	5.1	
	ES	59		-1.1						

	CRZ	EP	12 53 28		-0.9	4.82	324			4.3	4.0
		E	37								
		E	49								
	CIZ	E	12 54 18			7.84	137				
		ES	55 35		-0.8						

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	H	M	S								
JUL 04	18	15	51.7	38.33S	175.91E	172 KM	SE	1.3	AVG MAG		4.2
	+-		1.2	0.05	0.05	9					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	18	15	56.8	U	1.1	0.50	324			
		ES		16	14		-0.1					
	WTZ	P	18	15	56.2		-1.9	0.92	68		3.3	3.7
		E		16	13							
		ES			19		0.5					
	TUA	ES	18	16	19		-1.8	1.08	116			4.3
	TRZ	P	18	16	04.0		1.6	1.41	150		4.4	4.2
		ES			28		1.9					
	GNZ	EP	18	16	05.5		0.3	1.69	101		4.2	4.4
		E			23							
		ES			31		0.0					
	MNG	P	18	16	12.2		0.1	2.31	188		4.8	4.3
		ES			42.5		-0.7					
	WEL	P	18	16	21.0		-0.5	3.08	196	4.3	3.9	3.9
		ES			59.5		-0.4					
	COB	E	18	17	22.5			3.68	221			4.4
	KAI	ES	18	17	49		-4.8*	5.42	218	4.3		

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	H	M	S								
JUL 06	16	24	52.1	38.22S	175.75E	164 KM	SE	1.6	AVG MAG		3.7
	+-		1.9	0.07	0.09	16					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	16	25	15.9		1.3	0.34	330			
	WTZ	E	16	25	26.4			1.00	77			3.4
		ES			36.5		-2.0					
	TUA	ES	16	25	43		0.7	1.24	119			3.8
	TRZ	EP	16	25	24.5		0.8	1.57	148		3.7	3.9
		E			31.5							
		ES			50		2.0					
	GNZ	EP	16	25	26		-0.5	1.83	104		3.6	4.0
		E			49							
	MNG	IP	16	25	32.8	U	-0.4	2.40	185		3.8	3.7
		ES		26	03		-1.8					
	WEL	ES	16	26	21		-0.4	3.15	194			3.7
	COB	ES	16	26	34		0.3	3.69	218			3.5

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	H	M	S								
JUL 06	16	34	07.8	38.28S	175.92E	186 KM	SE	1.3	AVG MAG		3.9
	+-		1.3	0.06	0.07	14					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP	16	34	34		0.7	0.47	320			
		E			50							
	WTZ	IP	16	34	35.1	D	-0.5	0.90	71		4.0	
	TRZ	ES	16	35	03		-2.0	1.45	151			4.1
	GNZ	IP	16	34	43.1	U	0.7	1.69	103		4.4	4.0
		ES		35	10		0.8					
	MNG	IP	16	34	49.8	U	0.2	2.36	188		4.1	3.7
		ES		35	22		0.2					
	WEL	P	16	34	58.1		-0.7	3.13	196		3.9	3.8
		ES		35	40		1.8					
	COB	EP	16	35	05		-1.3	3.72	220		3.4	3.5
		ES			51.5		0.1					

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	H	M	S								
JUL 07	05	59	46.5	40.15S	174.91E	12 KM	SE	1.2	AVG MAG		3.9
	+-		0.3	0.02	0.02	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*	05	59	59.1	U	0.5	0.64	137		4.0	3.9

		ES*	06	00	09		1.4					
	TNZ	EP*	06	00	06		0.6	1.04	337		3.6	3.8
		ES*			20.5		1.0					
	CNZ	IP*	06	00	05.0	U	-0.9	1.07	28		4.2	4.4
		ES*			19		-1.3					
	WEL	P*	06	00	07.1	U	-0.1	1.14	185	3.7	4.1	4.3
		ES*			21		-1.5					
	TRZ	EP*	06	00	15.5		1.7	1.59	69		3.6	3.9
		E			32.5							
		ESG			40		-0.2					
	COB	EPN	06	00	17.5		-0.6	1.90	240		3.7	3.8
		ESN			42		0.6					
	KRP	EPN	06	00	21.5		-1.5	2.27	13		3.6	3.7
		EP*			28		1.5					
		ESN			54		3.7*					
	WTZ	EPN	06	00	29		-0.1	2.70	38		3.6	
	GNZ	EPN	06	00	30		-1.1	2.84	59		4.2	

	H	M	S									72/ 345
JUL 07	07	15	22.6	32.91S		178.62W	243 KM	SE	2.0	AVG MAG		4.9
		+-	1.8	0.09		0.13	33					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	ECZ	EP?		07	16	41	-1.5	5.31	205		5.1	4.9
		E				56						
		E			18	18						
	GBZ	P		07	16	49.9	D 0.2	5.88	234		4.2	
	WTZ	EP		07	16	52	-1.8	6.21	214			
		E				53.5						
		ES			18	05	-0.1					
	GNZ	EP		07	16	55	-0.5	6.34	205			
		ES			18	07	-1.2					
	ONE	EP		07	17	00	2.8	6.47	242	4.9		
	KRP	EP		07	17	03	0.2	6.92	222			
		ES			18	22	0.8					
		E				37						
	CRZ	EP		07	17	10	0.9	7.41	256			
	TRZ	ES		07	18	40.5	4.0	7.59	208			
	MNG	EP		07	17	27.5	-2.3	9.03	210			
		E				56						
		ES			19	07	-2.5					
	WEL	ES		07	19	28	-1.0	9.89	210	5.4		
	COB	E		07	18	06.5		10.70	218			
		ES			19	47	-0.4					
		E				58						
	CIZ	E		07	18	08		11.15	172			
		ES			20	00	2.2					

	H	M	S									72/ 346
JUL 08	02	52	06.8	33.87S		179.34W	256 KM	SE	2.4	AVG MAG		4.9
		+-	1.9	0.10		0.14	24					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		02	53	11	-2.6	4.19	204		5.3	4.8
		ES			54	08	2.4					
		E				15						
	GBZ	EP		02	53	20.5	-1.0	4.85	240		4.3	4.0
		E			54	26						
	WTZ	EP		02	53	22	-2.2	5.07	215		4.9	4.5
		ES			54	25	0.3					
	GNZ	EP		02	53	23	-3.0	5.22	203		5.4	5.1
		E				25						
		E				27.5						
		ES			54	27	-0.9					
	TUA	EP		02	53	31	-0.7	5.69	209		4.9	4.8
		ES			54	40	1.9					
	KRP	P		02	53	34.4	1.2	5.80	224		4.3	
	CRZ	EP		02	53	48	4.3	6.64	263			
	CNZ	P		02	53	45.8	1.0	6.73	216			
		E			55	14						

	TNZ	EP	02	53	56		3.6	7.33	222		
	MNG	P	02	53	57.0		-2.6	7.90	210		
		E		55	20						
		ES			26		-2.0				
	WEL	EP	02	54	09		-1.4	8.76	211	5.8	
		ES		55	46		-1.4				
	COB	EP	02	54	20		-0.6	9.57	219		
		ES		56	06		0.2				
	CIZ	E	02	54	37			10.30	169		
		ES		56	26		3.5				

	H	M	S								72/ 347
JUL 08	05	41	09.4	38.23S		176.23E	167 KM	SE	1.2	AVG MAG	4.1
	+-		0.7	0.02		0.03	6				
				H	M	S	DIR RES	DIST	AZ	W-A	W P W S
	KRP	IP		05	41	34.1	DNE 0.6	0.62	299		4.1 3.4
		ES				52	-0.1				
	WTZ	P		05	41	33.4	-0.2	0.64	68		3.7 4.0
		S				50.7	-1.6				
	TUA	P		05	41	36.0	0.6	0.93	129		4.1 4.3
		ES				55	-0.5				
	CNZ	IP		05	41	38.5	U 1.6	1.11	209		4.0 3.9
		ES			42	01	2.9*				
	TRZ	P		05	41	41.3	D 1.6	1.40	161		4.7 4.5
		S			42	04	1.1				
	GNZ	EP		05	41	41	0.7	1.47	107		4.1 4.6
		E				56					
		ES			42	03.5	-0.6				
	TNZ	EP		05	41	45.5	2.4	1.74	236		3.3
	ECZ	EP		05	41	44	-0.9	1.91	74		4.5
	GBZ	EP?		05	41	47	-0.0	2.09	343		3.3
	MNG	IP		05	41	51.2	U -0.2	2.46	193		4.7 4.2
		E			42	16					
		ES				24	0.4				
	ONE	ES		05	42	32.5	-0.2	2.87	328	3.6	
	WEL	P		05	42	00.7	-0.7	3.26	200		4.9 4.5
		ES				40	-1.3				
	COB	EP		05	42	09	-1.0	3.93	222		3.7 4.1
		ES				55	-1.7				

	H	M	S								72/ 348
JUL 10	09	52	57.6	41.45S		172.53E	12 KM	SE	1.8	AVG MAG	4.1
	+-		0.4	0.03		0.04	R				
				H	M	S	DIR RES	DIST	AZ	W-A	W P W S
	COB	IP*		09	53	03.0	-2.4	0.39	23		
	KAI	EPN		09	53	22	-0.1	1.36	218	3.8	
		ESN				38	-2.2				
	WEL	P*		09	53	28.0	0.4	1.69	85	4.0	4.2 4.7
		ES*				51	1.0				
	CHR	EPG		09	53	39.5	-0.3	2.08	178		
		E			54	05.5					
	GPZ	EP*		09	53	40	2.9	2.25	178	3.5	
		ES*			54	05	-1.8				
	MNG	PN		09	53	36.0	0.4	2.38	71		4.8 4.6
		E				37.8					
		ES*			54	09	-1.8				
	TNZ	EP*		09	53	45	0.7	2.66	33		3.9 4.7
		EPG				51	-0.5				
		E			54	23					
	MJZ	EPN		09	53	44	0.3	2.96	210		3.6 3.6
		ESN			54	19	0.6				
	TRZ	E		09	54	08		3.78	61		
		E			55	09.5					
	OHZ	EP*		09	54	05	1.2	3.81	198		4.1 4.2
		ESG			55	09	3.1				
	KRP	EPN		09	54	00	-0.5	4.21	34		3.8 4.4
		ES*			55	08.5	2.6				
	TUA	ES*		09	55	10	-1.9	4.41	55		4.6

	ROX	ESN	09	54	58	-1.1	4.65	209			3.9
	HSZ	EPN	09	54	08	1.3	4.67	225		3.9	4.2
		ESN			57.5	-1.9					
	WTZ	E	09	55	21		4.88	46			3.9
	GNZ	ESN	09	55	08	-0.8	5.06	58			4.3
	MNW	ESN	09	55	20	-2.0	5.61	218			3.8
	ONE	E	09	55	23		5.84	15	4.4		
	CRZ	EPN	09	54	41	3.0	7.01	1			
		E		55	35						

FELT HARAKEKE (76) MM III - IV, MURCHISON (80) MM IV

	H	M	S								72/ 349
JUL 10	09	53	50.7	41.38S	172.39E	12 KM	SE 1.7		AVG MAG		4.5
		+-	0.5	0.03	0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IP*	09	53	57.9		-0.6	0.39	42			
KAI	PG	09	54	18.0		-0.3	1.36	212	4.4		
	ESN			35		1.7					
WEL	P*	09	54	22.2		-0.3	1.79	88	4.5	4.9	5.3
	ES*			45		-1.3					
CHR	EPG	09	54	34.5		0.1	2.16	175			
	E			46							
	ES*			59		1.7					
GPZ	EPG	09	54	40		2.3	2.32	175	4.1		
	ES*			55 00		-2.2					
MNG	PN	09	54	31.2		1.3	2.46	73		5.1	4.9
	P*			33.2		-0.7					
	ES*			55 03.5		-2.8					
TNZ	ES*	09	55	12.5		-0.0	2.67	35			4.3
MJZ	ESN	09	55	14		2.2	2.97	208			4.3
	ESG			30		-0.8					
OMZ	ESG	09	55	57		-3.3	3.84	196			4.5
KRP	ES*	09	55	58		-1.2	4.22	36			4.4
TUA	ESG	09	56	23		1.8	4.46	56			4.6
HSZ	ESN	09	55	53		1.0	4.64	223			4.6
	ESG		56	25		-2.3					
ROX	ESN	09	55	52		-0.5	4.66	208			4.2
WTZ	E	09	56	10			4.91	48			3.9
GNZ	ESN	09	56	06		2.7	5.11	60			4.5
MNW	ESN	09	56	16		1.1	5.60	217			3.9
GBZ	E	09	56	51			5.69	26			3.7
ONE	E	09	56	23			5.80	16	4.6		
CRZ	ESN	09	56	46		-0.9	6.94	2			
CIZ	ESN	09	57	26		1.2	8.53	111			

FELT KARAMEA (74) AND TADMOR (75) MM IV

	H	M	S								72/ 350
JUL 11	00	46	49.6	37.24S	178.00E	12 KM	SE 1.7		AVG MAG		5.0
		+-	0.7	0.04	0.04	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P*	00	47	02.9		1.5	0.63	136			
	PG			03.5		1.1					
	E			16.5							
WTZ	IPN	00	47	11.0	D	0.5	1.09	227			
GNZ	PN	00	47	13.3	D	-1.3	1.40	179		5.6	
	EPG			20		2.0					
WNZ	P*	00	47	26.4		0.8	2.04	227		5.1	
KRP	IPN	00	47	24.8	DNE	1.4	2.07	250		4.9	4.4
	ESN			51		2.5					
GBZ	IPN	00	47	26.0	U	-0.1	2.27	296		4.8	4.4
	ESN			53		-0.2					
TRZ	PN	00	47	28.7	D	-0.4	2.49	201		5.5	5.3
	E			48							
CNZ	PN	00	47	34.1		1.3	2.75	224			
TNZ	E	00	47	46.0			3.45	235		4.6	
	E		48	31							
MNG	PN	00	47	45.3		-3.0	3.90	209		5.0	5.0
	EP*			57.5		0.0					

		ESN		48 32		-0.9				
	WEL	EPN	00	47 56.5		-3.3	4.75	211	5.3	5.0 5.3
		EP*		48 11		-1.1				
		ESN		52		-1.5				
		ES*		49 16		1.9				
	CRZ	EPN	00	48 06		0.9	5.15	301		4.7
	COB	EPN	00	48 08		-3.2	5.61	225		4.7 4.9
		ESN		49 15		0.9				
	CIZ	EPN	00	48 42		0.4	7.88	150		
		ESN		50 04		-4.1*				

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	H M S									
JUL 11	01 39 23.4	41.57S	175.28E	12 KM	SE 0.6	AVG MAG 3.7				
	+- 0.8	0.04	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL P*	01 39 33.1	U	0.5	0.48	306	3.2			
	S*	38.8		-0.6						
	MNG IP*	01 39 40.8	U	-0.1	0.96	9		3.9	3.7	
	ES*	54		0.2						
	COB PN	01 39 55.5		-0.5	1.98	283		3.8	3.8	
	ES*	40 25		0.5						
	FELT YORK BAY (68) MM IV									

72/ 352

	H M S									
JUL 11	08 32 25.5	32.99S	178.94W	238 KM	SE 2.0	AVG MAG 4.8				
	+- 1.9	0.09	0.13	27						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ EP	08 33 42		-1.0	5.12	203		5.3	5.0	
	ES	34 45		1.6						
	GBZ P	08 33 50.8		1.6	5.62	234		4.3		
	WTZ EP	08 33 52		-1.9	5.99	213		4.9	4.3	
	ES	35 04		1.2						
	GNZ EP	08 33 55		-1.0	6.16	203				
	ES	35 04		-2.7						
	ONE EP	08 33 59		2.5	6.20	242	4.9			
	KRP P	08 34 05.2		2.6	6.67	221				
	CRZ EP	08 34 06		-2.4	7.13	256				
	CNZ EP	08 34 14		-0.8	7.63	214				
	E	27								
	E	38								
	TNZ E	08 34 28			8.21	219				
	MNG EP	08 34 30		-0.1	8.83	209				
	ES	36 06		-1.7						
	COB E	08 35 01			10.46	217				
	ES	36 46		0.8						
	CIZ E	08 35 10			11.10	171				
	ES	37 01		1.2						

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	H M S									
JUL 11	08 38 33.8	38.02S	177.23E	64 KM	SE 1.2	AVG MAG 3.9				
	+- 1.1	0.06	0.04	8						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ IP	08 38 45.2	D	0.9	0.21	279				
	ES	52		-0.2						
	GNZ IP	08 38 50.8	D	-0.1	0.87	136		4.4	4.5	
	ES	39 04		0.4						
	KRP P	08 38 57.8	D	0.4	1.36	273		3.2		
	TRZ EP	08 38 58.5		-1.7	1.57	192		4.3	4.7	
	E	39 08								
	ES	20.4		0.6						
	CNZ EP	08 39 02		-1.1	1.78	228		4.0	3.8	
	E	07								
	ES	23		-1.7						
	MNG EP	08 39 20		0.5	2.94	207		3.6	3.5	
	E	40 01								
	COB EP	08 39 43.5		0.3	4.65	227		3.8	3.7	
	ES	40 38		1.6						

	H M S									72/ 354
JUL 12	13 23 13.7	45.29S	167.10E	12 KM	SE 1.6		AVG MAG			4.3
	+- 1.4	0.03	0.09	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW P*	13 23 27.0	U	1.8	0.61	143		4.4	4.5	
	ESG	37		2.4						
	MSZ P*	13 23 31.0	U	1.7	0.85	43		4.4	4.3	
	ES*	41		0.1						
	ROX PN	13 23 40.2		-0.8	1.58	98		4.7	4.6	
	P*	40.7		-1.1						
	SN	24 00.3		-0.9						
	WPZ IPN	13 23 42.6	U	-1.8	1.84	139		4.2	4.2	
	ESN	24 06		-1.0						
	OMZ PN	13 23 55.9	D	-0.5	2.71	87		4.6	4.3	
	ESN	24 27		-1.5						
	MJZ PN	13 23 55.2		-1.6	2.74	63		4.2	4.0	
	EP*	24 03		1.4						
	EPG	07		-2.0						
	ESN	30		0.9						
	KAI EP*	13 24 28		2.0	4.16	50	4.1			
	EPG	38		0.1						
	ESN	25 06		2.6						
	COB PN	13 24 38.8		-0.2	5.88	46		4.1	4.0	
	ESN	25 43		-1.7						

	H M S									72/ 355
JUL 13	00 26 54.3	44.93S	167.65E	100 KM	SE 1.0		AVG MAG			3.7
	+- 1.0	0.03	0.04	S						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	HSZ IP	00 27 09.3	U	0.0	0.32	36				
	ES	21		0.3						
	MNW IP	00 27 13.8	U	0.4	0.85	182		4.4	4.2	
	ES	27		-0.9						
	ROX EP	00 27 20		1.3	1.30	115		3.5	3.7	
	ES	38		1.0						
	WPZ ES	00 27 49		-1.1	1.92	155			3.5	
	MJZ ES	00 27 57		-0.3	2.22	66			3.3	
	OMZ EP	00 27 32.5		0.8	2.32	95		3.3	4.0	
	ES	59		-0.6						
	COB ES	00 29 13		-1.0	5.35	46			3.6	

	H M S									72/ 356
JUL 13	05 05 31.7	38.95S	175.67E	12 KM	SE 1.0		AVG MAG			3.9
	+- 0.6	0.03	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ONZ IP*.	05 05 37.2		-0.2	0.27	200				
	TNZ EP*	05 05 50		-0.4	1.03	256		4.3	3.5	
	ES*	06 03.5		-0.9						
	WTZ E	05 06 07			1.41	48		3.2		
	HNG IPN	05 05 59.3	U	-1.0	1.68	185		4.6	4.2	
	ESN	06 20		-1.4						
	WEL PN	05 06 11.9		1.4	2.44	196	3.6	4.3	4.0	
	ESN	40		0.5						
	GDZ EPG	05 06 27		0.1	2.73	357		3.6		
	COB EPN	05 06 20		0.3	3.11	226		3.8	4.0	
	ESN	57		1.3						

	H M S									72/ 357
JUL 14	16 20 12.4	43.02S	170.89E	12 KM	SE 1.5		AVG MAG			3.8
	+- 0.3	0.02	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KAI P*	16 20 25.5		1.4	0.62	38	3.7			
	PG	27.5		2.4						
	S*	34.8		2.1						
	MJZ P*	16 20 30.0	S	-0.9	1.02	198				
	EPG	34		0.9						
	S*	43		-1.7						

	GPZ	EP*	16	20	39	0.8	1.45	119	3.5		
		EPG			41	-0.7					
		S*			58	0.5					
		SG		21	03	1.7					
	ONZ	EPN	16	20	46	-0.0	2.05	180		4.1	4.1
		SN		21	11	0.2					
	COB	PN	16	20	50	-0.2	2.36	36		4.2	4.3
		P*			53	-1.0					
		EPG		21	01	0.7					
		S*			25	-0.1					
		ESG			29.5	-2.7					
	ROX	EPN	16	20	53.5	-1.6	2.71	204		3.8	3.7
		PG		21	03.5	-3.7*					
		SN			26	-1.2					
	MSZ	EPN	16	20	56	0.8	2.71	231		3.7	4.0
		EP*		21	01	1.1					
		PG			06	-1.3					
		ES*			35.5	-0.1					
	WEL	EPN	16	21	04.5	0.7	3.36	60	3.7	3.8	3.8
		P*			09	-2.0					
		PG			18	-2.4					
		E			25						
		ESG		22	01	-4.7*					
	MNW	EP*	16	21	16	0.5	3.63	219		3.5	3.5
		SG		22	16	1.4					
	MNG	PN	16	21	15	0.1	4.18	57		4.2	3.7
		I			21						
		ES*		22	18	-1.8					
	KRP	EPN	16	21	44.5	2.6	6.20	36			

H M S 72/ 358

JUL 14 20 30 46.5 38.39S 175.81E 171 KM SE 2.4 AVG MAG 3.9

+- 1.6 0.08 0.09 15

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	20	31	15.7	U	1.4	0.84	194		3.7	
WTZ	P	20	31	15.5		-0.1	1.01	67		3.2	3.3
	S			35		-1.5					
TRZ	P	20	31	21.1		2.0	1.41	146		4.6	
GNZ	P?	20	31	23		0.4	1.76	99		4.3	4.1
	I			23.4							
	S			47		-2.0					
GBZ	P	20	31	29.7		2.3	2.18	353		3.1	
MNG	IP	20	31	29.9	U	1.8	2.24	186		4.2	4.2
	S			59.5		0.9					
ECZ	P	20	31	25		-3.4	2.27	73		4.5	
WEL	S	20	32	15.5		0.5	3.01	195	3.7		4.0
COB	S	20	32	30		1.8	3.59	220			3.9
KAI							5.33	216	4.0		
GPZ	S	20	33	17		-3.1	5.82	203	4.1		
HJZ	S	20	33	42		-3.6	6.89	214			
CIZ	S	20	34	14.5		2.6	8.00	136			

H M S 72/ 359

JUL 14 23 50 03.5 38.26S 176.03E 211 KM SE 1.8 AVG MAG 5.0

+- 0.8 0.05 0.04 5

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	P	23	50	31.9		0.3	0.38	171			
KRP	IP	23	50	32.3	UNW	0.3	0.51	311			
	S			52		-2.0					
WTZ	IP	23	50	32.3	U	-1.1	0.81	70		5.1	4.9
	S			49		-7.5*					
	I			51.5							
GNZ	P	23	50	35.8	U	1.2	1.01	202		4.8	
	E			54							
	S		51	01.5		2.8					
TUA	IP	23	50	35.0		0.2	1.04	122			
TRZ	IP	23	50	39.1	U	1.3	1.43	155		5.5	5.6
	S		51	05		0.6					

	TNZ	P	23	50	41		1.8	1.59	234		3.7	3.7
		S		51	10.5		3.7					
	GNZ	P	23	50	39.4	U	-0.1	1.61	104		5.2	5.6
		E			43							
		S		51	03.5		-3.7					
	ECZ	P	23	50	43.9	D	0.0	2.07	75		5.2	5.3
		I			45.3							
		S		51	12.5		-2.5					
		I			14							
	GBZ	P	23	50	44.4	D	0.4	2.08	348		3.8	
	MNG	IP	23	50	49.1	D	1.8	2.39	190		5.0	5.1
		S		51	20		-1.1					
	WEL	IP	23	50	57.1	U	0.8	3.17	197	5.3	5.0	5.3
		S		51	36		-1.1					
	COB	EP	23	51	04		0.2	3.80	221		4.5	5.3
		E			28							
		S			50.5		0.0.					
	KAI	S	23	52	27		-2.4	5.53	218	4.9		
	GPZ	P	23	51	31.5		-0.2	6.00	204	5.6		
		S		52	38		-2.3					
	MJZ	P	23	51	46.5		0.7	7.09	214			
		S		53	03		-2.6					
	ORZ	P	23	51	56		1.0	7.81	208			
		ES		53	21		-1.2					
	CIZ	S	23	53	30		3.8	7.98	138			
	MSZ	P	23	52	08		-0.4	8.83	221			
		E		53	42							
		S			45		-1.0					
	MNW	EP	23	52	21		0.5	9.77	217			
		ES		54	08		0.3					
		E			16							

	H	M	S									72/ 360
JUL 15	09	06	01.1	37.38S		178.07E		33 KM	SE	1.9	AVG MAG	3.7
		+_	0.9	0.05		0.04		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	IP*		09	06	11.0	U	-0.4	0.49	129			
		S*				19.5		0.6					
	WTZ	IP*		09	06	21.9		1.4	1.05	235		4.2	3.7
		S*				38		3.1					
	GNZ	PN		09	06	21.5	D	-0.1	1.26	182		4.3	4.2
		SN				38		1.0					
	KRP	P*		09	06	36.5		-1.6	2.08	254			
	TRZ	EPN		09	06	38		1.1	2.38	204		4.2	4.0
		ESN			07	10		5.8*					
	GBZ	P*		09	06	42.5		-0.7	2.38	298		3.3	3.1
		S*			07	13		0.4					
	ONZ	P*		09	06	48		-0.4	2.69	227		3.5	3.3
		S*			07	21		-2.8					
	MNG	EPN		09	06	56		-0.5	3.81	211		3.1	3.1
		ESN			07	40		1.0					
	WEL	SN		09	07	58.5		-1.3	4.66	212			3.5
	COB	SN		09	08	25		3.7	5.55	227			3.4
	GPZ	SN		09	09	05		-3.7	7.54	212	4.4		
	MJZ	SN		09	09	37.5		-0.6	8.77	219			

	H	M	S									72/ 361
JUL 15	15	14	45.1	38.22S		176.74E		12 KM	SE	2.0	AVG MAG	4.0
		+_	0.5	0.04		0.03		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	IPG		15	14	29.9		-1.7	0.30	40			
	TUA	PG		15	14	37.5		-1.3	0.67	152		4.2	
	KRP	P*		15	14	43.8		0.6	1.00	287			
		IPG				46		0.7					
		SG				59.5		0.7					
	GNZ	IPG		15	14	47.1	U	-0.1	1.09	113		4.8	4.4
		SG			15	05.5		3.5					
	TRZ	PG		15	14	51.5		-0.6	1.33	177		4.7	4.6

	E		15 30						
CNZ	PG		15 14 51		-1.5	1.35	223	3.8	
ECZ	PG		15 14 55		-0.9	1.52	70	4.3	4.1
	E		15 25						
TNZ	PG		15 15 11		3.7	2.09	242	3.3	
GDZ	EP*		15 15 04		-0.4	2.24	333	3.0	
	E		07						
	PG		10		-0.4				
MNG	P*		15 15 09		-1.4	2.59	202	3.7	3.1
	PG		18		0.6				
WEL	PG		15 15 32		-2.2	3.42	206	3.8	
COB	EPN		15 15 29.5		1.5	4.22	226	3.4	
	EP*		41		2.7				
	PG		47		-3.3				

FELT KAWERAU (34)

	H	M	S									72/ 362
JUL 16	04	21	40.4	35.19S	179.70W	33 KM	SE	1.8	AVG MAG			6.2
	+-		1.0	0.05	0.07	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		PN	04	22	26	U	2.9	2.87	209		6.4	
		E				31							
	WTZ		IPN	04	22	37.5	U	0.9	3.86	223		5.9	
	GNZ		PN	04	22	38.0	U	0.9	3.90	207		6.2	
	GDZ		IPN	04	22	39.5	D	0.3	4.06	254		5.5	
		I			23	05							
	TUA		PN	04	22	46		2.0	4.41	214			
	KRP		IPN	04	22	49.7	USW	1.6	4.71	233			
	AUC		PN	04	22	52		2.9	4.78	248			
	WNZ		PN	04	22	51		1.5	4.81	223		6.0	
		E				59							
	ONE		IPN	04	22	50.9	E	0.4	4.88	261			
	TRZ		PN?	04	22	54.2		-0.1	5.16	211			
		I				55.8							
	CNZ		PN	04	22	59.5		0.5	5.52	222			
	TNZ		PN	04	23	09		0.9	6.19	228			
		E				19							
	CRZ		IPN	04	23	09.5	DNE	-0.3	6.32	275			
		I				24.5							
	MNG		PN	04	23	11.8		-2.2	6.62	214			
		P*				31.5		-3.5					
		ES*			25	02		0.7					
	WEL		PN	04	23	22.5		-3.0	7.48	214	6.6		
		P*				49		-0.7					
		SN			24	47		0.3					
		S*			25	27		-0.0					
		SCS			37	08							
		*SSCS				28							
	COB		PN	04	23	34		-3.5	8.38	223			
		ESN			25	09		0.8					
	CIZ		SN	04	25	26		1.1	9.08	166			
		I				34							
		T			33	11							
	KAI		EP*	04	24	31		-3.2	10.08	221	6.4		
		SN			25	49		0.3					
	GPZ		E(PN)	04	24	04.5		0.9	10.35	213	6.3		
		E			25	51							
		SN				54		-0.9					
	HJZ		EPN	04	24	17.5		-2.5	11.60	218			
		SN			26	21.5		-2.7					
		PCS			33	44							
		SCS			37	13							
		E*SSCS				32							
	ONZ		PN	04	24	28		0.3	12.20	213			
		SN			26	39		0.9					
	ROX		EPN	04	24	42		1.0	13.24	216			
		SN			27	05		2.8					
		L			28	00							

MSZ	SN	04 27 05.5	-0.4	13.40	221		
MNW	EPN	04 24 54	-0.4	14.30	218		
	ESN	27 26	-0.4				
WPZ	ESN	04 27 32.5	5.1*	14.34	214		

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H M S							
JUL 17 10 40 30.3	35.78S	178.13E	254 KM	SE 1.2		AVG MAG	4.0
+- 1.5	0.07	0.10	11				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	10 41 12.5		-0.2	1.94	170		4.4	4.2
	S	45		-0.7					
GBZ	P	10 41 15		-0.1	2.19	258		3.4	
WTZ	P	10 41 18		1.1	2.38	202		3.8	3.6
	S	53		-0.2					
TRZ	ES	10 42 25		2.1	3.90	195			4.5
MNG	P	10 41 49.5		-0.4	5.26	203		3.9	3.6
	S	42 50.5		-1.6					
COB	S	10 43 26		-0.1	6.78	217			
GPZ	S	10 44 15.5		0.1	8.96	206	4.7		

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H M S							
JUL 18 17 16 12.2	37.24S	176.59E	279 KM	SE 0.8		AVG MAG	4.5
+- 0.6	0.03	0.04	4				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP	17 16 48.5	U	-1.1	0.80	157		4.6	4.0
	S	17 15.5		-3.4*					
KRP	IP	17 16 51.8	U	0.8	1.08	231			
	S	17 22		0.8					
GBZ	IP	17 16 51.7	D	-1.1	1.36	319		4.1	3.3
	E	17 27.5							
ECZ	EP	17 16 54		-0.5	1.62	107		4.8	4.7
	E	58							
	E	17 20							
	S	27.5		0.3					
TUA	ES	17 17 26		-1.2	1.62	164			
GNZ	P	17 16 55.3	U	0.0	1.80	141		5.5	5.2
	S	17 29		-0.6					
CNZ	P	17 17 00.0	U	1.6	2.12	203		4.3	3.9
	E	38							
TRZ	P	17 17 01.0	U	0.8	2.31	176		4.8	5.1
	S	38.5		1.0					
TNZ	P	17 17 06.5		3.5*	2.61	221		3.9	
MNG	IP	17 17 12.5	U	0.5	3.48	194		4.8	4.6
	S	59		0.3					
WEL	P	17 17 21		-0.0	4.28	199	4.8	4.5	4.7
	S	18 14		-0.7					
	I	17							
COB	P	17 17 27.5		-0.4	4.87	217		4.0	4.3
	S	18 27		-0.2					
KAI	S	17 19 04		-1.0	6.61	215	4.4		
GPZ	P	17 17 56		0.7	7.11	204	4.9		
	S	19 16		-0.2					
HUZ	EP	17 18 09		0.3	8.19	213			
	E	12							
	E	19 38							
	S	40		-0.2					

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H M S							
JUL 22 08 18 38.5	40.53S	174.42E	12 KM	SE 1.5		AVG MAG	3.9
+- 0.4	0.02	0.02	3				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	PG	08 18 53.6	U	-1.3	0.80	161	3.7	4.0	4.4
	SG	19 04.5		-1.3					
MNG	IPG	08 18 54.3	U	-0.8	0.81	97		4.3	
	SG	19 05.5		-0.7					
TNZ	P*	08 19 02.9	D	0.4	1.34	359		3.9	3.7
	S*	20.5		0.0					
	E	27							

COB	P*	08	19	02.3	U	-1.2	1.40	246		4.3	4.4
	S*			21		-1.2					
CAZ	SG	08	19	29		2.4	1.42	106			
TRZ	P*	08	19	16		0.7	2.08	63		3.9	4.0
	PG			22		1.3					
	S*			42		-0.8					
KRP	PN	08	19	22		0.3	2.74	19			
	P*			27.5		1.0					
	SN			55		0.9					
KAI	E	08	19	59			3.02	228	3.2		
	SN			20	02.5	2.1					
	S*			13		2.2					
WTZ	PN	08	19	24.5		-3.7	3.23	39		3.9	
GNZ	PG	08	19	47		0.5	3.36	57		3.5	
	SN		20	10		1.3					
GPZ	SN	08	20	17		6.6*	3.43	202	3.4		
GBZ	PN	08	19	42.5		-1.3	4.38	11		3.7	
	P*			54		-0.7					

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H	M	S								
JUL 23	05	12	06.9	33.78S	179.75W	263 KM	SE	1.2	AVG MAG	4.6
		+-	1.0	0.05	0.07	9				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	05	13	13.5		-0.1	4.14	199		5.3	4.4
	E		14	03							
	S			05		-0.5					
GBZ	P	05	13	19.5		0.5	4.61	237		3.7	
WTZ	EP	05	13	22		-1.2	4.96	211		4.9	3.9
	I			23.7							
	E		14	18							
	S			25		2.1					
GNZ	P	05	13	26		0.1	5.18	200		5.0	4.5
	S		14	27		-0.6					
KRP	P	05	13	33.5		2.1	5.63	221			
TRZ	P	05	13	41		0.2	6.39	205			
MNG	P	05	13	58		-0.6	7.81	208			
	S		15	25		-1.3					
WEL	EP	05	14	08		-1.3	8.66	209	5.0		
	S		15	44		-1.4					
COB	EP	05	14	18		-0.9	9.43	217			
	S		16	03		0.3					
CIZ	S	05	16	27		1.0	10.46	167			
KAI	S	05	16	49		7.1*	11.16	216	4.9		
GPZ	S	05	16	51.5		1.0	11.54	209	5.0		
MJZ	EP	05	15	00.5		0.6	12.72	214			
	S		17	17		0.2					

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H	M	S								
JUL 24	21	50	50.6	40.04S	175.59E	102 KM	SE	1.9	AVG MAG	4.0
		+-	0.9	0.04	0.06	10				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP	21	51	09.1	U	1.6	0.59	188		4.5	4.1
	S			19.5		-0.9					
CNZ	IP	21	51	10.2	U	0.5	0.84	358		4.4	4.6
	S			21.5		-2.8					
TNZ	P	21	51	16.5		1.8	1.26	312			3.9
	S			34		1.2					
WEL	P	21	51	18.8	U	2.5	1.40	206	3.5	3.7	4.0
	S			37		1.4					
KRP	P	21	51	26		0.8	2.11	359			
	E			33							
	S			50		-0.9					
	E		52	02							
WTZ	E	21	51	33			2.32	28			3.2
	S			55		-1.1					
GNZ	P	21	51	28.5		0.1	2.34	54		4.0	4.0
	S			57		0.4					
GPZ	S	21	52	41		-2.7	4.27	210	3.7		

	MJZ	S	21 53 12			-1.8	5.49	222				
	H M S											72/ 368
JUL 25	03 26 09.9		38.51S	176.39E	12 KM		SE	3.0	AVG MAG			2.9
	+- 1.1		0.06	0.05	R							
			H M S	DIR	RES		DIST	AZ	W-A	W P	W S	
	WNZ	PG	03 26 12.2		-3.4		0.26	242				
	TUA	SG	03 26 34		1.5		0.66	117		3.1		
	WTZ	SG	03 26 34		0.2		0.70	42		2.7		
	KRP	PG	03 26 27.5		-0.6		0.89	311				
		SG	41.5		1.3							
	CNZ	PG	03 26 30.5		1.2		0.96	224		2.9	2.9	
		SG	46		3.7							
	MNG	PG	03 26 51		-3.9		2.22	198		3.0		
	FELT WAIRAKEI (41) MM IV											
	H M S											72/ 369
JUL 25	19 42 47.2		33.09S	179.02W	33 KM		SE	2.5	AVG MAG			4.6
	+- 2.1		0.10	0.13	R							
			H M S	DIR	RES		DIST	AZ	W-A	W P	W S	
	ECZ	PN	19 44 02		3.0		5.00	203		5.1	4.7	
		SN	45 02		7.9*							
	GBZ	PN	19 44 04		-1.7		5.50	234		4.0		
	WTZ	PN	19 44 11.4		0.8		5.87	213		4.7	4.1	
		ESN	45 18		3.0							
	GNZ	PN	19 44 11		-1.9		6.04	203				
		SN	45 20.5		1.4							
	ONE	E	19 44 18.5				6.09	242				
		E	35									
	TUA	EPN	19 44 20		0.9		6.50	208				
		ESN	45 32		2.0							
	KRP	PN	19 44 22		2.1		6.56	221				
	CRZ	EPN	19 44 27		0.5		7.04	257				
	TRZ	SN	19 45 50.5		2.0		7.27	206				
	CNZ	PN	19 44 33		0.3		7.52	214				
		SN	45 56		1.7							
	MNG	PN	19 44 45		-3.7		8.71	209				
		SN	46 19.5		-3.4							
	WEL	SN	19 46 39		-4.2		9.56	209	5.1			
	CIZ	SN	19 47 17		-0.3		11.01	171				
	MJZ	SN	19 48 15		-2.9		13.63	214				
	H M S											72/ 370
JUL 26	12 49 52.3		38.75S	175.57E	180 KM		SE	2.2	AVG MAG			4.2
	+- 1.3		0.07	0.05	9							
			H M S	DIR	RES		DIST	AZ	W-A	W P	W S	
	CNZ	IP	12 50 18.2	U	1.2		0.45	182				
		S	37		1.0							
	KRP	P	12 50 18.5		-0.5		0.83	358				
		S	37		-2.6							
	TNZ	P	12 50 22.8	U	2.5		1.02	245		3.7	3.2	
		S	45		3.0							
	TRZ	EP	12 50 24		1.7		1.26	130		4.0	4.9	
		S	44		-1.5							
	MNG	IP	12 50 29.8	U	1.5		1.86	182		4.8	3.9	
		S	55		-1.0							
	GNZ	IP	12 50 29.0	DN	0.1		1.92	88		5.0	4.5	
		S	53		-4.1							
		E	55									
	WEL	P	12 50 38.0	U	1.2		2.60	193	3.7	4.3	4.2	
		S	51 11		-0.1							
	COB	P	12 50 44		0.1		3.19	222		3.6	4.4	
		S	51 25		1.3							
	KAI	S	12 52 01.5		-1.5		4.92	219	4.2			
	GPZ	S	12 52 12		-2.4		5.41	203	4.6			
	MJZ	EP	12 51 28		1.5		6.49	215				
		S	52 38		-1.8							
	CIZ	S	12 53 16		3.4		7.87	134				

	MSZ	S	12 53 18			-2.9	8.23	222					
	H M S												72/ 371
JUL 27	12 25 48.3		38.39S		178.30E	33 KM	SE	1.7	AVG MAG		4.4		
	+- 0.5		0.03		0.04	R							
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ	P*	12	25	56.9	UNW	0.6	0.33	221				
		S*		26	06		3.9*						
	ECZ	P*	12	25	59.8	U	-2.7	0.73	15		5.2	5.2	
		S*		26	14		1.2						
	WTZ	PN	12	26	06.0		-0.8	1.11	291		4.6	4.5	
		SN			23		2.4						
	TRZ	PN	12	26	14		0.0	1.63	224		5.4	5.2	
	KRP	PN	12	26	21		-1.1	2.23	281				
		P*			27		-0.8						
		E			55								
	CHZ	PN	12	26	24		1.0	2.30	249		4.5		
		EP*			31		2.1						
	MNG	PN	12	26	33		-1.3	3.11	224		4.1	4.0	
		E			52								
		SN		27	12.3		3.2						
	GBZ	PN	12	26	34		-0.5	3.13	313				
	TNZ	PN	12	26	36		1.0	3.17	254		3.5		
		P*			42		-1.9						
	WEL	PN	12	26	43		-2.9	3.97	222	4.3	4.2	4.3	
		E		27	07								
		SN			31		0.9						
	ONE	E(PN)	12	26	48		0.4	4.09	308				
	COB	PN	12	26	59		-1.9	5.06	236		4.0	3.8	
		E		27	10								
		SN			57		0.3						
		ES*		28	22		-0.3						
	CRZ	PN	12	27	15.5		1.9	6.02	309				
	KAI	ESN	12	28	33		-2.5	6.68	230	4.3			
		E			41								
	CIZ	E(PN)	12	27	25		1.1	6.77	147				
		SN		28	39		1.4						
		E			41								
		E			43								
	GPZ	SN	12	28	36		-2.5	6.81	217	4.3			
	MJZ	E(PN)	12	27	42		-0.0	8.13	224				
		SN		29	10		-0.1						
	MSZ	SN	12	29	56		1.6	9.99	228				
	H M S												72/ 372
JUL 27	18 28 15.7		38.37S		175.66E	209 KM	SE	1.6	AVG MAG		4.7		
	+- 0.7		0.03		0.04	S							
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	IP	18	28	44.4	UNW	0.6	0.45	348				
		S		29	04.5		-1.0						
	CHZ	P	18	28	47.8		2.3	0.84	186		4.5	4.4	
		ES		29	08		-0.6						
		E			13								
	WTZ	P	18	28	46.8	U	-0.5	1.12	70		4.2	4.5	
		S		29	10.5		-1.4						
	TNZ	P	18	28	51.8	D	3.1	1.29	230		4.2	3.5	
	TRZ	P	18	28	52		1.6	1.49	143		4.8	5.3	
		S		29	18		0.8						
	GNZ	P	18	28	54.5	D	0.5	1.88	99		5.0	5.3	
		S		29	21		-2.5						
	GBZ	P	18	28	56.5		-0.3	2.15	356		4.0		
	MNG	IP	18	28	59.5	U	1.7	2.25	183		4.8	5.0	
		S		29	29		-1.4						
	ECZ	IP	18	28	59.4	D	0.2	2.38	74		5.0	5.2	
		S		29	33		0.2						
	ONE	ES	18	29	40		-1.2	2.79	338	3.7			
	WEL	IP	18	29	07.9		1.6	2.99	193	4.9	4.7	5.1	
		S			46		0.6						

COB	P	18	29	13	0.4	3.53	219		4.2	5.0
	S			58	1.3					
KAI	S	18	30	37	1.4	5.27	217	4.9		
GPZ	P	18	29	42	0.9	5.79	202	5.4		
	S			30 45	-2.6					
MJZ	P	18	29	55	0.3	6.84	213			
	S			31 10	-2.0					
OMZ	EP	18	30	04.5	0.3	7.58	206			
	S			31 27.5	-1.6					
CIZ	S	18	31	47	5.9*	8.10	136			
	E			53						
ROX	ES	18	31	49	-2.1	8.53	212			
MSZ	S	18	31	49	-2.9	8.56	220			
MNW	S	18	32	16	2.1	9.51	216			

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H	M	S								
JUL 28	12	39	38.5	37.03S	177.03E	238 KM	SE	1.1	AVG MAG	4.1
		+-	1.5	0.05	0.09	13				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ							0.95	182		3.6	3.4
KRP	EP	12	40	17		1.2	1.48	233		3.3	
GBZ	P	12	40	14.8		-1.0	1.48	303		3.8	
GNZ	P	12	40	19.0		0.6	1.79	154		4.3	4.2
	ES			48		-1.2					
MNG	EP	12	40	40.0		0.3	3.78	198		4.5	4.2
	S			41 28.1		1.0					
WEL	EP	12	40	49.8		0.3	4.60	202	4.6	4.0	4.1
	S			41 45.3		0.5					
KAI	ES	12	42	38		-0.6	6.99	217	4.7		
GPZ	ES	12	42	48		-1.2	7.45	205	4.8		

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H	M	S								
JUL 28	13	14	58.1	37.33S	176.75E	242 KM	SE	1.3	AVG MAG	4.4
		+-	1.1	0.05	0.05	8				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ							0.68	164		4.1	3.8
KRP	P	13	15	33.8		0.4	1.13	238		3.7	
	S			16 00		-0.7					
ECZ	P	13	15	36		0.1	1.48	105		4.4	4.4
	ES			16 05		0.0					
GBZ	P	13	15	34.8		-1.3	1.50	317		3.7	
GNZ	IP	13	15	38.0		0.7	1.66	143		5.6	5.2
	S			16 03.8		-1.7					
CNZ	P	13	15	43.5		2.4	2.09	206		4.0	3.7
	ES			16 16		1.5					
MNG	IP	13	15	56.0	D	0.5	3.43	196		5.1	4.5
	ES			16 40		0.0					
WEL	P	13	16	05.0		-0.0	4.24	201	4.7	4.3	4.4
	S			57.5		0.5					
KAI	ES	13	17	49		-0.9	6.62	217	4.8		
GPZ	ES	13	17	59		-1.6	7.09	205	4.9		

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H	M	S								
JUL 28	20	45	38.9	45.07S	167.55E	84 KM	SE	1.9	AVG MAG	4.6
		+-	1.8	0.09	0.08	20				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP	20	45	54.2	U	1.0	0.48	33			
MNW	IP	20	45	54.8	U	-0.6	0.71	176			
	ES		46	06		-1.8					
ROX	IP	20	46	03.7	D	1.0	1.32	108		4.7	
	ES			23		2.5					
MJZ	P	20	46	16.0		-0.4	2.35	64		4.0	4.7
	S			45		0.7					
OMZ	P	20	46	17.4		0.5	2.39	91		5.3	5.0
	S			44.8		-0.3					
KAI	E	20	46	45			3.78	49	4.2		
	ES		47	19		-0.8					
GPZ	E	20	46	44			3.90	71	4.5		

		S			47 19.5		-3.4						
	MNG	EP		20	47 27		1.7	7.33	55				
		E			48 42								

	H	M	S									72/ 376
JUL 30	12	55	21.8	37.19S	177.18E	311 KM	SE	1.6	AVG MAG			4.3
		+-	1.4	0.11	0.12	12						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ							0.80	191		4.0	3.9
	ECZ	EP		12	56 07		2.4	1.20	115		4.4	4.5
		E			30.5							
		ES			36.5		-1.4					
	KRP	P		12	56 04.8		-1.6	1.49	240		3.9	
		E			25							
	GNZ	P		12	56 06.9		-0.1	1.59	156		5.0	
		E			36							
		S			38		-4.1*					
	TRZ	EP		12	56 14.2		1.3	2.37	187			
		S			53		0.2					
	CNZ	P		12	56 12.6		-0.4	2.38	212		4.0	3.6
		S			56		3.1					
	TNZ	EP		12	56 18		-0.5	2.97	227		4.1	
	MNG	P		12	56 25.0		-0.5	3.67	201		5.0	4.2
		ES			57 13		-2.3					
	WEL	P		12	56 34.3		-0.2	4.49	204	4.8	4.4	4.3
		S			57 31		-0.5					
	COB	EP		12	56 42		-0.6	5.20	220		3.9	4.1
		S			57 45		-1.0					
	KAI	ES		12	58 25		2.2	6.93	218			
	HJZ	ES		12	58 57		0.0	8.49	215			

	H	M	S									72/ 377
JUL 30	23	39	08.5	40.86S	175.96E	33 KM	SE	1.6	AVG MAG			5.1
		+-	0.3	0.02	0.03	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CAZ	P*	23	39	17.4		2.4	0.21	103			
	MNG	P*	23	39	16.5		-1.4	0.43	303			
	WEL	P*	23	39	26.4	U	-1.0	1.00	244			
		S*			40.3		-0.7					
	TRZ	PN	23	39	31.3	D	-0.5	1.46	27			
	CNZ	PN	23	39	34.8	U	-0.1	1.68	349			
	TNZ	PN	23	39	40.1		0.1	2.06	324		5.6	
		P*			43.8		-1.3					
		I			47.2							
		ES*		40	16		3.6*					
	WNZ	EPN	23	39	42.0		-0.3	2.23	3		5.8	
		EP*			50.0		2.1					
	COB	PN	23	39	45.7	U	0.3	2.45	264			
		EP*			55		3.2					
	GNZ	PN	23	39	47.0	D	-2.1	2.72	36		5.5	
		E		40	06							
	KRP	PN	23	39	51.0		-1.2	2.95	354			
		E			55.5							
		IP*			58.3		-1.9					
		I		40	01.3							
	WTZ	PN	23	39	50.0		-2.6	2.98	16		4.9	
		I		40	04.5							
	ECZ	PN	23	40	01.3	U	-1.8	3.74	33		5.4	5.2
		E			38							
	GPZ	EPN	23	40	03		-0.2	3.75	220			
		E			09							
		E			15							
		SN			45		-0.1					
	KAI	EPN	23	40	05		1.3	3.79	242	5.0		
		EP*			14		-0.7					
		E			20.5							
		SN			47		0.9					
	AUC	E	23	40	14			4.10	347			

	EP*		22.0	2.1					
GBZ	PN	23 40	14.3	-1.1	4.65	355		4.7	
	EP*		32.1	2.8					
	E		36.3						
MJZ	PN	23 40	22.9	1.0	5.13	231		4.6	4.4
	I		27.8						
	E		41						
	ESN	41	19	0.6					
ONE	EPN	23 40	24	0.8	5.23	346	5.3		
	E		45.5						
	ES*	41	49	1.6					
ONZ	EPN	23 40	28.8	0.5	5.60	220		4.9	5.0
	E		38						
	EP*		44	-1.7					
	SN	41	28	-1.9					
CIZ	PN	23 40	41.0	2.7	6.34	122			
	SN	41	47.0	-0.6					
CRZ	E	23 40	54		6.92	337			
	E	41	02						
	E	42	13						
MSZ	EPN	23 40	47	-0.7	7.04	235			
	I	41	00						
	SN	42	04	-0.2					
MNW	PN	23 40	58	-0.1	7.82	228			
	E	42	11						

FELT CENTRAL AND SOUTHERN PARTS OF THE NORTH ISLAND.
MAXIMUM INTENSITY MM V

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	H	M	S										
JUL 31	07	11	22.4	31.99S	179.25E	532 KM	SE	1.4	AVG MAG		5.0		
	+- 1.2			0.12	0.25	16							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	P			07	12	54.2		0.1	5.25	216		4.6	
ECZ	EP			07	12	59		0.7	5.72	186		5.0	
WTZ	EP			07	13	02.2		-1.2	6.26	197			
	ES				14	22		-1.5					
KRP	P			07	13	09.0		1.8	6.66	206			
GNZ	P			07	13	09.5		1.8	6.71	188			
	S				14	32		0.6					
CNZ	P			07	13	18.2		-0.3	7.80	202			
	E				15	00							
MNG	P			07	13	29.5		-2.5	9.13	198			
	S				15	16		0.6					
WEL	EP			07	13	41		0.6	9.95	200	5.5		
	S				15	30		-0.7					
COB	EP			07	13	44		-1.9	10.48	208			
	S				15	42		1.3					
MJZ	EP			07	14	20		0.0	13.82	207			
MSZ	P			07	14	37		0.8	15.45	212			

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	H	M	S										
AUG 01	13	43	54.9	38.22S	176.47E	12 KM	SE	1.7	AVG MAG		3.3		
	+- 0.6			0.04	0.04	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	PG			13	44	03.3		-1.4	0.47	60			
KRP	PG			13	44	08.4		-2.7	0.79	292		3.6	
	ESG					23		1.2					
CNZ	PG			13	44	19		-0.6	1.21	216		3.0	
	E					26							
GNZ	PG			13	44	22.2		1.1	1.29	110		4.1	
GBZ	EPG			13	44	40		1.6	2.15	338		3.0	
MNG	EP*			13	44	39.5		0.5	2.51	197		2.9	
	EPG					46		0.2					

FELT LAKE OKATAINA (33)

	H M S									72/ 380
AUG 03	10 41 40.7	38.34S	175.89E	196 KM	SE	1.8	AVG MAG			4.1
	+- 1.3	0.05	0.07	11						

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	10 42 07.8		0.3	0.50	326		4.3	3.3
	S	25.8		-2.3					
CNZ	P	10 42 11.2		1.7	0.90	197		4.3	
WTZ	P	10 42 08.0		-1.8	0.93	68		4.0	3.6
	E	24							
TRZ	EP	10 42 15		1.5	1.41	149			
	E	35.5							
	S	40		1.2					
TNZ	EP	10 42 16		2.1	1.45	234		3.6	
GNZ	P	10 42 15.9		-0.3	1.70	101		4.3	4.4
	I	40							
	S	42		-1.6					
GBZ	P	10 42 20.9		0.1	2.15	351		3.9	
MNG	P	10 42 23.7		1.2	2.29	188		4.5	4.6
	E	53							
	S	55		0.4					
WEL	P	10 42 32.7		1.3	3.06	196	4.6	4.2	4.5
	E	43 09.8							
	S	10.5		-0.1					
COB	EP	10 42 40		1.2	3.67	221		3.7	3.5
	S	43 25		1.2					
GPZ	S	10 44 11		-3.4	5.88	204	4.8		
MJZ	S	10 44 37		-2.7	6.97	214			

	H M S									72/ 381
AUG 04	17 09 42.7	36.29S	177.54E	33 KM	SE	1.6	AVG MAG			4.5
	+- 1.4	0.09	0.08	R						

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P*	17 10 10.5		-1.3	1.62	151		5.3	
GBZ	EP*	17 10 12.3		-0.3	1.67	272		4.3	4.5
	E	21							
	E	38							
WTZ	IPN	17 10 09.8	D	-0.2	1.75	194		4.9	
KRP	PN	17 10 18.4		1.0	2.29	224		4.0	4.2
	E	40							
AUC	EP*	17 10 26		2.7	2.30	255			
	E	33							
GNZ	PN	17 10 18.9		0.2	2.39	171		5.3	
	IP*	25.3		0.6					
	SN	47		1.0					
ONE	EP*	17 10 27		-2.0	2.63	280	4.2		
	E	11 13							
CNZ	E	17 10 35.0			3.31	208		4.7	
	IP*	37.3		-3.2					
TRZ	EPN	17 10 32		0.6	3.31	190		5.4	
	E	58							
MNG	PN	17 10 49.7		0.5	4.62	200		4.2	
	E	56							
WEL	PN	17 11 00		-0.3	5.44	203	4.7	4.0	4.1
	ESN	59		-1.2					
COB	EPN	17 11 11		1.9	6.09	217			

	H M S									72/ 382
AUG 04	19 29 19.3	36.07S	178.73E	253 KM	SE	1.0	AVG MAG			4.4
	+- 0.9	0.07	0.07	6						

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	19 29 59.0		-0.2	1.63	187		4.6	4.5
	ES	30 31		1.0					
WTZ	P	19 30 06.0		0.0	2.39	216		4.5	4.4
	ES	44		1.8					
GNZ	P	19 30 08.0		-0.6	2.64	193		4.9	5.1
	S	45.2		-1.7					
GBZ	IP	19 30 03.5		-5.4*	2.68	266		3.8	

	KRP	P	19	30	14.2	-0.3	3.19	234	3.8	
		ES			56	-1.3				
	CNZ	P	19	30	25.0	0.8	4.04	218	4.5	4.4
		E			31 28					
	TNZ	E	19	30	38		4.68	227	4.1	
	MNG	P	19	30	38.8	0.3	5.23	209	3.9	4.3
		S			31 39.8	-0.6				
	WEL	EP	19	30	49	-0.1	6.08	210		
		S			31 59	-0.3				
	COB	EP	19	31	00	0.7	6.89	222		
		S			32 18	0.4				
	GPZ						8.96	210	5.2	

GBZ READING MAY BE LOCAL MOVEMENT PRECEDING P

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H M S										
AUG 06	18 23 38.9	41.83S	171.86E	12 KM	SE	1.6	AVG MAG	4.1		
	+- 0.4	0.03	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KAI	EP*	18 23 53.5		0.3	0.77	206			
		I	54.2							
		S*	24 05		1.2					
	COB	IP*	18 23 55.4	U	-1.5	0.99	42			
		S*	24 08		-2.3					
	KKY	P*	18 24 04.0		-1.4	1.48	114			
		S*	25.2		0.0					
	GPZ	EPN	18 24 10.0		-1.1	1.95	163	3.9		
		IP*	14.8		1.4					
		SN	34.5		-0.4					
	WEL	EPN	18 24 15.0		-0.2	2.25	77	3.7	4.2	4.2
		IP*	20		1.5					
		S*	47		-1.2					
	MJZ	EPN	18 24 17.2		0.1	2.39	205		3.9	3.9
		EP*	25.5		4.7*					
		SN	46.0		0.5					
		ES*	53		0.7					
	MNG	EPN	18 24 24		-1.4	2.99	67		4.4	4.1
		EP*	31		-0.1					
		SN	25 05		4.5*					
	TNZ	EP*	18 24 38		2.1	3.27	37		3.8	
	ONZ	EPN	18 24 28.8		-0.9	3.31	192			
		IP*	40.0		3.3					
	CNZ	EPN	18 24 38.2		1.3	3.85	48		4.5	4.5
		I	40.8							
		IP*	49.3		3.5					
		E	25 44							
	MSZ	PN	18 24 38.3		-1.3	4.04	224		4.1	4.1
		SN	25 23		-2.7					
	ROX	EP*	18 24 50		0.1	4.08	206			3.8
		ESN	25 25		-1.6					
	KRP	PN	18 24 49.3		-0.7	4.82	37		4.3	
		EP*	25 05		2.5					
		ESN	43.5		-0.8					
	MNW	EPN	18 24 51		-1.4	5.00	216		4.2	3.9
		SN	25 49		0.3					

FELT MURCHISON (80) MM IV

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H M S										
AUG 09	12 34 23.2	34.64S	179.75W	33 KM	SE	2.3	AVG MAG	5.1		
	+- 1.8	0.10	0.10	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ	P	12 35 14.0		1.7	3.34	204		5.4	4.9
		E	36 01							
	GBZ	P	12 35 25.0		1.1	4.19	247		4.2	
		E	40							
	WTZ	P	12 35 23.7		-1.0	4.25	217			
		I	25.3							
	GNZ	EP	12 35 24.8		-1.6	4.38	203		5.8	
		I	27.1							

		S		36 18		3.0				
	TUA	EP	12	35 32		-0.8	4.85	210	5.3	5.1
		S		36 30		3.7				
	ONE	EP	12	35 35		0.9	4.94	255		
	KRP	P	12	35 36.0		0.9	5.02	228	4.4	
		E		36 36						
	TRZ	P	12	35 43.0		-0.2	5.62	208		
	MNG	EP	12	35 59		-3.7	7.06	211		
		ES		37 20		0.5				
	WEL	ES	12	37 38		-1.9	7.92	211	5.5	
	COB	E	12	36 21			8.75	220		
		S		38 00		0.1				
	CIZ	P	12	36 39.0		2.1	9.63	166		
		S		38 20		-0.7				
	GPZ	ES	12	38 44		-4.1	10.79	211	5.4	

	H	M	S									72/ 385
AUG 09	20	06	36.1	37.41S	176.99E	183 KM	SE	1.7	AVG MAG			4.6
	+-		1.0	0.05	0.05	7						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	P	20	07 01.2		-0.5	0.58	180		4.4	4.5
		S		22		0.6					
	KRP	P	20	07 07.3		0.9	1.26	245		4.1	
		S		30.6		0.8					
	ECZ	P	20	07 06.1		-0.4	1.27	103		5.4	5.0
		I		09.5							
		ES		28		-2.0					
	TUA	EP	20	07 07		-0.7	1.40	175			
	GNZ	IP	20	07 08.9		0.5	1.48	147			
		S		31.5		-1.8					
	AUC	P	20	07 13.0		0.9	1.85	287			
	TRZ	P	20	07 17		1.7	2.15	183			
		ES		48		2.5					
	ONE	EP	20	07 21		-0.6	2.67	307			
	TNZ	EP	20	07 25		2.9	2.71	228		4.2	3.8
		E		08 06							
	MNG	P	20	07 30.3	D	-0.3	3.41	200		4.6	4.6
		S		08 12.5		-0.1					
	WEL	EP	20	07 41		-0.0	4.24	203	5.0		
		S		08 29		-2.2					
	COB	EP	20	07 50		-0.1	4.94	221		4.4	4.8
		S		08 46		-1.4					
	GPZ	EP	20	08 15		-3.4	7.10	206	5.2		
		S		09 33.5		-4.6*					
	CIZ	E	20	08 39			8.17	145			
		S		10 06		2.6					

	H	M	S									72/ 386
AUG 09	22	43	36.6	30.54S	176.87E	33 KM	SE	3.7				
	+-		5.3	0.31	0.73	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ONE	E	22	45 20			5.63	201			
	ECZ	EP	22	45 21		2.1	7.27	169			
	GNZ	P	22	45 30		-0.5	8.14	174			
		S		46 57.5		-1.2					
	CNZ	P	22	45 41.2		3.1	8.71	187			
	MNG	P	22	45 52.0		-4.8	10.12	186			
		ES		47 47		1.2					

	H	M	S									72/ 387
AUG 10	02	05	03.4	40.12S	175.01E	33 KM	SE	1.6	AVG MAG			4.0
	+-		0.4	0.02	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*	02	05 17.2	U	1.4	0.62	144			
		ES*		25		0.3					
	CNZ	IP*	02	05 22.0	D	-0.2	1.01	24		4.2	
		S*		36		0.0					
	TNZ	P*	02	05 23.3		0.4	1.05	332		3.8	3.9

	S*			38	0.7					
WEL	P*	02	05	24.3	-0.3	1.18	189	3.9	4.0	4.6
	S*			40.0	-1.1					
COB	EPN	02	05	35.8	1.9	1.99	240		4.1	4.0
	IP*			37.9	-0.9					
	ES*		06	04	-1.1					
KRP	EPN	02	05	39	1.8	2.23	11		3.8	4.0
	EP*			45	2.1					
	S*		06	10	-2.3					
WTZ	EP*	02	05	47	-2.7	2.63	36		3.6	

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	H	M	S									
AUG 10	21	15	44.6	39.10S		175.27E		151 KM	SE	1.2	AVG MAG	4.7
		+-	0.6	0.03		0.03		9				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	CNZ		P	21	16	06.5		1.2	0.23	115		
			S			21.5		0.3				
	TNZ		EP	21	16	08.8		1.4	0.70	263		4.0
	KRP		IP	21	16	11.5	U	0.0	1.19	10		4.3
			S			30.8		-1.3				
	TRZ		S	21	16	34.8		1.2	1.28	111		
	TUA		P	21	16	15.4		0.9	1.49	79		4.9 4.6
			S			37		-0.4				
	HNG		IP	21	16	16.7	U	1.9	1.52	174		
			S			37.5		-0.5				
	WTZ		IP	21	16	16.8	D	-0.4	1.75	51		4.5
	GNZ		P	21	16	23.0		0.5	2.19	79		4.9 4.9
			S			49.5		-2.1				
	WEL		P	21	16	23.2		0.4	2.22	190	4.7	4.2 5.1
			S			51.2		-0.8				
	COB		P	21	16	30.8		0.8	2.78	224		4.0 4.4
			ES		17	03		-1.7				
	ECZ		P	21	16	32.0		0.1	2.93	62		5.3
	GPZ		EP	21	16	57		-1.9	5.00	202	5.3	
			S		17	50		-5.2*				
	MJZ		S	21	18	16.0		-5.9*	6.07	215		
	MSZ		EP	21	17	37		0.5	7.81	222		
			ES		18	56		-7.7*				

FELT PALMERSTON NORTH (62)

72/ 389

	H	M	S									
AUG 11	15	15	46.6	38.88S		175.27E		202 KM	SE	1.5	AVG MAG	5.1
		+-	0.8	0.04		0.05		8				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	CNZ		IP	15	16	14.2	U	0.5	0.39	147		
	TNZ		P	15	16	16.1	U	0.9	0.76	246		4.9 4.1
			E			42						
	KRP		IP	15	16	17.0	UNE	0.5	0.97	12		5.1 4.5
			ES			40		0.3				
			E		17	04						
	TRZ		P	15	16	21.5		1.9	1.38	120		5.5 5.8
			ES			46		0.8				
	TUA		P	15	16	21.1		0.7	1.47	88		
			E			39						
	WTZ		IP	15	16	21.4		-0.3	1.61	57		4.9 4.7
			E			44.5						
	HNG		IP	15	16	24.1	U	1.1	1.75	175		5.0 4.9
			ES			50		-1.1				
	AUC		EP	15	16	27		0.9	2.05	349		
	GNZ		IP	15	16	27.9	DNW	0.6	2.16	85		5.5 5.7
			E			53						
			ES			58		-0.6				
	WEL		IP	15	16	29.9	U	-0.4	2.44	189	5.4	5.4 5.6
			ES		17	04		-0.0				
	GBZ		P	15	16	32.5		-0.4	2.66	4		4.2
	ECZ		EP	15	16	34.5		-0.5	2.83	66		5.5 5.1
			ES		17	09		-3.3				
	COB		IP	15	16	34.2	U	-2.1	2.95	221		5.0 5.0

		ES		17 11		-3.7*				
	GPZ	EP	15	17 02		-2.3	5.21	202	5.9	
		E		58.5						
	CIZ	EP	15	17 43		2.9	7.96	132		
		E		19 20						

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	H	M	S									
AUG 13	12	43	30.0	42.15S	171.73E	12 KM	SE	1.5	AVG MAG		3.9	
	+-		0.5	0.03	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB		P*	12	43	51.3		-2.0	1.30	36		4.2	4.5
			ES*		44	09.5		-1.2					
	KKY		PN	12	43	56.4		0.3	1.48	101			
			ESG		44	20		-0.1					
	GPZ		EPN	12	43	59		0.3	1.69	157	3.8		
			ESN		44	18.5		-1.4					
	MJZ		IPN	12	44	03.3		-0.4	2.06	206		4.2	3.7
			ESN		29			0.4					
	WEL		P*	12	44	10.7		-2.0	2.43	70	3.6	3.9	3.9
			ES*		45			0.2					
	MNG		EPN	12	44	19		-0.4	3.21	63		4.0	3.8
			EP*		28			2.0					
			ES*		45	10		1.8					
	MSZ		EPN	12	44	25		-1.7	3.75	226		3.7	3.8
			ESN		45	12		2.3					
	CNZ		P*	12	44	40.4		-1.5	4.14	46		4.0	4.1
			E		49								
			ES*		45	37		1.1					
			E		46								
	KRP		EPN	12	44	47		1.7	5.13	36		3.7	3.5
			E		45	48							
	GNZ		ESN	12	46	03		0.6	5.94	56			3.9

72/ 391

	H	M	S									
AUG 13	17	16	53.0	44.15S	167.77E	12 KM	SE	0.9	AVG MAG		4.1	
	+-		0.7	0.04	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ		IP*.	17	17	03.0		-0.0	0.53	169			
	MNW		IPN	17	17	22.2	U	1.3	1.63	184		4.4	4.2
			ESN			41		-0.6					
	ROX		PN	17	17	21.0		-1.1	1.72	141		4.2	4.4
			E			39							
	MJZ		PN	17	17	25.4		0.3	1.95	86		4.1	4.0
			ESN			49		0.2					
	WPZ		EPN	17	17	35		0.6	2.62	164		3.9	3.7
			ESN		18	05		-0.6					
	GPZ		E	17	17	58			3.55	84	3.9		
			ES*		18	42		0.7					
	COB		EPN	17	18	04		0.6	4.77	52		4.3	4.1
			ESN			56		-1.3					
			ESG		19	31		-2.8*					

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	H	M	S									
AUG 14	02	37	15.5	37.84S	175.71E	12 KM	SE	1.1	AVG MAG		3.7	
	+-		1.1	0.08	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		IP*	02	37	18.7	USE	-0.6	0.16	239			
			ES*			22		0.0					
	CNZ		PN	02	37	40.9	D	0.9	1.36	185		3.9	3.7
			P*			41.5		1.7					
			E		38	11							
	GNZ		EPG	02	37	55		-0.7	1.99	114		3.8	
	MNG		EP*	02	38	03		-1.1	2.78	184		3.9	3.2
			E			07							
			E			55							
	COB		EPN	02	38	15.5		0.3	3.98	214			3.6
			E			30							
			E		39	09							

		ESG			29		-0.3						
	H M S												72/ 393
AUG 14	06 16 10.6		44.33S		168.08E		12 KM		SE 0.7		AVG MAG		3.9
	+- 0.5		0.03		0.03		R						
			H	M	S	DIR	RES		DIST	AZ	W-A	W P	W S
	MSZ	P*	06	16	17.3		-0.4		0.36	199			
		PG			17.9		-0.5						
		S*			22.7		-0.4						
	ROX	PN	06	16	35.9		-0.3		1.45	143		3.9	3.9
		SN			55.1		-0.1						
	MNW	IPN	06	16	36.7	U	-0.1		1.49	193		4.0	3.9
		ESN			58		1.9						
	MJZ	EPN	06	16	40		-0.2		1.75	80		3.7	3.6
		ESN			17 02		0.0						
	OHZ								2.15	111		4.2	4.3
	WPZ	EPN	06	16	48.3		-0.4		2.39	167		3.7	3.7
		ESN			17 20		2.7*						
	GPZ	ES*	06	17	53		-0.0		3.35	81	3.7		
	COB	E	06	17	19				4.72	48		4.1	3.7
		ESN			18 14		0.4						
	H M S												72/ 394
AUG 14	10 29 21.1		44.29S		168.06E		12 KM		SE 1.3		AVG MAG		3.9
	+- 0.8		0.04		0.05		R						
			H	M	S	DIR	RES		DIST	AZ	W-A	W P	W S
	MSZ	P*	10	29	28.7	D	-0.3		0.40	195			
		ES*			33		-1.7						
	ROX	PN	10	29	46.3		-1.0		1.49	143		4.2	4.2
		ESN			30 05		-1.7						
	MNW	PN	10	29	48.0	D	0.3		1.53	192		4.0	4.2
		ESN			30 09		1.6						
	MJZ	EPN	10	29	51		0.2		1.76	81		3.5	3.6
		ES*			30 16		0.3						
	OHZ								2.18	112		4.2	4.3
	WPZ	EPN	10	30	00.5		0.5		2.44	167		3.7	3.8
		ESN			31		2.1						
	GPZ	E	10	30	38				3.36	81	3.7		
	COB	EPN	10	30	30		-0.6		4.70	49		3.9	3.7
		ESN			31 24		0.3						
	H M S												72/ 395
AUG 15	01 33 22.0		40.98S		173.56E		113 KM		SE 1.8		AVG MAG		4.2
	+- 0.9		0.05		0.05		10						
			H	M	S	DIR	RES		DIST	AZ	W-A	W P	W S
	COB	IP	01	33	42.2	D	1.8		0.63	260		4.6	4.5
		E			46								
		E			50								
		ES			54		-0.5						
	WEL	IP	01	33	45.2	U	1.8		0.96	109	4.0	4.6	4.5
		ES			34 00		0.4						
	KKY	P	01	33	50.3		1.9		1.44	176			
		S			34 10		0.8						
	HNG	IP.	01	33	50.1		0.5		1.50	77		4.5	4.2
		ES			34 09		-1.4						
	CNZ	EP	01	34	00		-0.2		2.34	41		4.1	4.3
		E			11								
		ES			28		-0.9						
		E			57								
	GPZ	ES	01	34	37		-3.0		2.80	194	4.4		
	TRZ	ES	01	34	42		0.3		2.87	61			4.3
	KRP	E	01	34	39				3.41	27			3.7
		ES			53		-1.6						
	MJZ	ES	01	35	01		-2.4		3.78	216			3.1
	GNZ	E	01	35	08.5				4.15	57			4.3
	MSZ	EP	01	34	46		2.5		5.55	226			3.5
		E			35 42								

	H M S							72/ 396
AUG 15	03 29 56.3	40.98S	175.51E	12 KM	SE 0.8	AVG MAG		4.2
	+- 0.3	0.02	0.02	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	03 30 03.2	D	-0.2	0.36	356			
CAZ	P*	03 30 06.0	U	-0.7	0.54	83		4.4	4.9
	ES*	15		0.7					
WEL	IP*	03 30 07.3	U	-1.0	0.64	241	3.7	4.3	4.3
	S*	17.0		-0.2					
TRZ	EPG	03 30 31		-0.5	1.74	36		4.3	4.0
	SG	58.3		3.9*					
CNZ	PN	03 30 26.5		0.7	1.77	1		4.5	4.7
	PG	31.9		-0.3					
	ES*	52		0.8					
COB	PN	03 30 30.3		-0.3	2.11	266		4.2	4.2
	EP*	34		0.6					
	ESN	57		1.0					
	ES*	31 01		-0.2					
KRP	EP*	03 30 50.5		1.0	3.05	0		3.8	3.8
	ES*	31 28		-1.5					
GPZ	E	03 31 23			3.45	217	3.7		

	H M S							72/ 397
AUG 15	10 34 29.1	37.24S	177.50E	186 KM	SE 1.4	AVG MAG		3.8
	+- 1.9	0.09	0.12	19				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P	10 35 02.0		0.6	1.46	164		4.0	4.4
	ES	25		-1.4					
KRP	P	10 35 03.3	U	-0.5	1.70	246		3.4	
TRZ	EP	10 35 11.5		0.5	2.37	193			4.2
	ES	45		1.7					
CNZ	P	10 35 14.1	U	1.7	2.49	218		4.0	3.6
	E	53							
MNG	EP	10 35 26		-1.5	3.72	204		3.8	3.5
	ES	36 12		-0.6					
WEL	ES	10 36 32		0.3	4.56	207			3.8
COB	ES	10 36 49		-0.6	5.33	223			

	H M S							72/ 398
AUG 15	11 52 52.0	38.89S	177.92E	12 KM	SE 1.3	AVG MAG		4.5
	+- 0.4	0.02	0.03	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP*.	11 52 59.2		1.8	0.26	18			
TRZ	P*	11 53 13.2	D	1.6	1.08	232		5.2	5.0
	PG	15.4		1.4					
	E	21							
	E	47							
ECZ	P*	11 53 14.7		-0.4	1.29	23		4.7	4.8
	E	24							
CNZ	IPN	11 53 24.1	U	0.9	1.87	260		4.5	4.7
	E	33.3							
KRP	EPN	11 53 25.5		-0.8	2.10	296		4.5	4.2
	PG	33.0		-1.6					
	E	54 04							
CAZ	EPN	11 53 30		-0.3	2.40	212			4.3
	E	48							
	ESN	58		-0.8					
	E	54 38							
MNG	PN	11 53 31.6	U	-1.0	2.55	227		4.2	4.3
	E	49							
GBZ	EPN	11 53 41		-1.5	3.30	323		4.1	3.8
	E	53.5							
	ESN	54 20		-0.6					
WEL	PN	11 53 43.0		-1.0	3.40	224	4.4	4.1	4.4
	E	54 08							
	ESN	23		-0.2					
ONE	EPN	11 53 56		1.2	4.21	317	4.1		

	ESN		54 43		0.4					
COB	PN	11	53 58.8		-0.6	4.55	239		4.6	4.5
	ESN		54 52		1.1					
GPZ	ESN	11	55 28		-3.3*	6.23	218	4.9		
CIZ	PN	11	54 28		1.9	6.54	142			
	ESN		55 37		-1.6					

FELT GISBORNE (45) AND ORMOND (44) MM IV

72/ 399

	H M S								
AUG 15	13 14 07.9	38.75S	175.55E	158 KM	SE 1.0	AVG MAG		4.0	
	+- 0.7	0.03	0.04	6					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	13 14 31.4		1.3	0.45	180			
	ES	48		0.8					
KRP	P	13 14 32.9		0.6	0.83	359		3.1	3.0
	ES	50		-1.0					
TRZ	EP	13 14 37.5		1.4	1.27	129			4.4
	ES	57		-0.8					
MNG	IP	13 14 43.2	U	0.9	1.86	182		4.4	4.0
	ES	15 08		-0.8					
GNZ	P	13 14 43.0		-0.1	1.94	88		4.8	4.4
	ES	15 07		-3.3*					
ECZ	EP	13 14 50		-1.1	2.59	67		4.4	
WEL	EP	13 14 51		-0.2	2.60	193	3.9	3.7	4.2
	ES	15 24		-0.4					
COB	ES	13 15 37		-0.5	3.18	222			4.0

72/ 400

	H M S								
AUG 17	05 30 00.7	38.47S	176.94E	12 KM	SE 1.6	AVG MAG		4.5	
	+- 0.5	0.03	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP*.	05 30 10.9		0.9	0.48	4			
GNZ	P*	05 30 16.0	DSW	-0.6	0.87	102		5.4	5.2
	ES*	29		0.6					
TRZ	EPG	05 30 22		-0.9	1.09	185		4.7	5.1
	E	25.3							
	E	40							
KRP	IPN	05 30 23.3	DSE	-0.2	1.23	296		4.1	
	E	31							
CNZ	PN	05 30 25.8	D	1.2	1.31	236		4.6	4.5
ECZ	EP*	05 30 27.5		0.3	1.48	59		4.9	4.7
	E	39							
AUC	PN	05 30 39.8		1.4	2.35	312			
MNG	EPN	05 30 38		-1.5	2.43	207		4.3	4.3
	EP*	46		2.6					
	ESG	31 25		2.3					
GBZ	EPN	05 30 39		-2.0	2.53	332		3.7	
WEL	EP*	05 30 57.5		-0.4	3.28	210	4.5	4.2	4.6
	ESN	31 29		0.1					
	E	45							
COB	E	05 31 08			4.17	230		4.3	4.3
	ES*	32 05		-2.6					
CIZ	EPN	05 31 44.5		-1.2	7.35	140			
	E	32 57							

72/ 401

	H M S								
AUG 17	11 49 05.4	35.17S	180.00W	33 KM	SE 1.6	AVG MAG		4.3	
	+- 1.4	0.06	0.10	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EPN	11 49 48		1.2	2.78	205		4.6	4.6
	E	50 40.5							
WTZ	IPN	11 49 58.6	D	-0.9	3.71	220		4.4	4.1
	E	50 47							
GNZ	EPN	11 50 00.5		-0.4	3.81	204		4.7	4.6
	E	21							
	ESN	45		1.5					
GBZ	EPN	11 50 01		-0.0	3.82	253		3.9	
KRP	PN	11 50 10.7		0.1	4.53	231		4.1	

	ESN	51 02	1.3						
ONE	EPN	11 50 12	-0.2	4.64	261	4.4			
TRZ	EPN	11 50 17	-0.8	5.06	209		4.4	4.4	
	E	30							
	ESN	51 15	1.5						
	E	49.5							
CNZ	PN	11 50 24.6	2.6	5.37	220		4.4	4.0	
	ESN	51 23	1.9						
	E	37							
CRZ	EPN	11 50 31.5	0.1	6.07	275				
MNG	EPN	11 50 36	-1.4	6.51	212				
	E	52							
	ESN	51 46.5	-1.9						
	E	52 18							
WEL	ESN	11 52 07	-1.9	7.36	212				
COB	ESN	11 52 27	-2.5	8.23	222				

72/ 402

	H M S							
AUG 16	02 52 34.9	40.08S 175.04E	33 KM	SE 1.4		AVG MAG		3.8
	+- 0.4	0.02 0.03	8					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG IPN	02 52 46.5	U	-0.3	0.63	148		4.0	3.8
	ESN	56		0.5					
	CNZ IPN	02 52 52.2	U	0.8	0.97	24		3.9	4.2
	ES*	53 06		-0.5					
	WEL EPN	02 52 55.5		0.7	1.22	190		3.6	4.2
	ESN	53 08.3		-1.5					
	COB EPN	02 53 05		-0.9	2.02	240		3.7	3.6
	ESN	30		0.7					
	KRP EP*	02 53 16		2.3	2.19	10			3.5
	ES*	41		-1.7					

72/ 403

	H M S							
AUG 18	08 37 52.5	32.91S 179.53W	443 KM	SE 1.4		AVG MAG		4.3
	+- 1.8	0.19 0.38	24					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ EP	08 39 25		-0.4	5.80	208		4.9	3.8
	ES	40 38		-0.6					
	GNZ EP	08 39 29.5		1.5	6.05	198			
	ES	40 43		-0.3					
	KRP EP	08 39 33.0		1.2	6.41	217			
	CNZ EP	08 39 42		-0.8	7.43	211			
	MNG EP	08 39 55		-1.5	8.66	206			
	ES	41 35.5		0.9					
	COB E	08 42 40			10.23	215			

72/ 404

	H M S							
AUG 20	07 32 45.2	38.80S 175.17E	250 KM	SE 0.9		AVG MAG		4.1
	+- 0.7	0.07 0.05	6					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ IP	07 33 18.9	D	0.7	0.50	144		4.0	3.6
	ES	44		0.1					
	TRZ EP	07 33 25		1.2	1.49	121			3.8
	ES	53		-0.5					
	MNG IP	07 33 27.2	U	0.7	1.84	172		4.5	3.9
	S	58.2		-0.3					
	GNZ IP	07 33 29.0	DNE	-1.2	2.24	87		4.8	4.0
	ES	34 02		-3.1*					
	WEL P	07 33 33.7		0.8	2.51	187			3.7
	ES	34 10		0.1					
	ECZ P	07 33 36.0		-0.8	2.88	69		4.6	
	COB P	07 33 37.5		-0.0	2.96	218		4.2	3.6
	ES	34 17.5		-0.9					

	H M S										72/ 405
AUG 21	01 08 38.0	38.52S	175.84E	187 KM	SE 1.4	AVG MAG 4.0					
	+- 1.3	0.05	0.05	9							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
KRP	IP	01 09 03.8	U	-0.6	0.64	338		3.9			
	ES	24		-0.8							
CNZ	IP	01 09 05.6	U	0.8	0.71	199		3.9	3.5		
	ES	26		0.5							
TRZ	ES	01 09 34		1.3	1.28	144			4.3		
GNZ	EP	01 09 13.5		0.6	1.71	95		4.5	4.2		
	ES	40		0.1							
MNG	P	01 09 16.8		-0.3	2.11	187		4.0	3.8		
	ES	45		-2.3							
WEL	P	01 09 25.1		-1.1	2.88	196		4.4			
	ES	10 03		-0.4							
COB	ES	01 10 19		2.2	3.50	222			3.8		

	H M S										72/ 406
AUG 21	11 22 10.3	40.09S	175.03E	12 KM	SE 1.8	AVG MAG 4.0					
	+- 0.5	0.03	0.05	3							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
MNG	IP*	11 22 22.1		-0.1	0.63	147		4.0	3.9		
	ES*	31		0.1							
CNZ	IP*	11 22 27.6	D	-0.5	0.98	24		4.2			
	ES*	41		-0.4							
WEL	IP*	11 22 31.0	U	-1.1	1.21	189	3.9	4.3	4.7		
	ES*	46		-2.3							
TRZ	EPN	11 22 37		0.6	1.48	69		3.7	3.6		
	E	23 12.5									
COB	PN	11 22 44.0		0.7	2.01	240		4.2	3.8		
	ESN	23 10		2.3							
KRP	EP*	11 22 48.5		-0.6	2.20	11		3.6	3.9		
	ES*	23 16		-2.1							
GNZ	E(PG)	11 23 09		3.3	2.74	59		4.0			

	H M S										72/ 407
AUG 23	02 09 21.8	42.21S	172.92E	33 KM	SE 1.3	AVG MAG 3.9					
	+- 0.3	0.02	0.03	3							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
KKY	IPN	02 09 34.2	D	0.8	0.61	111					
	ES*	44		1.1							
COB	IPN	02 09 40.3	U	-0.2	1.13	353					
	ESN	54		-0.5							
GPZ	EPN	02 09 45		-0.7	1.50	188	3.8				
	ESN	10 03		-0.7							
WEL	EPN	02 09 46.5		-1.3	1.66	57	3.6	4.1	4.3		
	E	56									
	ESN	10 06		-1.4							
	ESG	15									
MNG	PN	02 09 56.9		-2.4	2.49	51		4.4	4.1		
	E	59.9									
	ESN	10 24		-3.7*							
MJZ	EPN	02 10 00		0.2	2.53	224		3.5	3.7		
	ESN	29		0.4							
CNZ	PN	02 10 14.2	D	-0.3	3.60	34		4.3	4.2		
	EP*	27		2.2							
	ESN	56.5		1.7							
TRZ	E	02 11 02.5			3.97	49			4.2		
MSZ	EPN	02 10 27		1.6	4.40	234		3.6	4.0		
	ESN	11 14		-0.1							
KRP	EPN	02 10 29		-0.8	4.72	26		3.8	3.6		
	ESN	11 21		-0.9							
	ES*	47		1.4							

	H M S								72/ 408
AUG 24	14 08 13.5	34.22S	179.55W	402 KM	SE 1.4		AVG MAG		4.7
	+- 1.3	0.18	0.24	16					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	14 09 22		-2.2	3.79	204		5.1	4.6
	E	25							
	ES	10 20		0.2					
GNZ	EP	14 09 33		-1.4	4.83	203		5.1	4.9
	E	36							
	ES	10 39		1.2					
KRP	EP	14 09 41		0.4	5.43	226		3.8	
TRZ	EP	14 09 49.5		2.1	6.06	208			
	ES	11 03		1.7					
CNZ	P	14 09 51.2		0.7	6.34	217			
	ES	11 06		-0.9					
MNG	EP	14 10 04		0.2	7.51	210			
	ES	11 29		-1.7					
WEL	EP	14 10 14		0.5	8.36	211			
	ES	11 47		-1.3					
COB	EP	14 10 23		-0.0	9.18	220			
	ES	12 06		0.6					

	H M S								72/ 409
AUG 25	14 08 05.2	33.58S	179.83W	33 KM	SE 2.2		AVG MAG		5.9
	+- 1.3	0.07	0.09	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	14 09 09.9		2.3	4.31	197		6.6	6.1
GBZ	PN	14 09 16.3		3.9	4.67	234		4.4	
ONE	PN	14 09 23.2		2.7	5.27	244	5.0		
GNZ	PN	14 09 21		-0.5	5.34	198		6.3	6.2
	I	25							
	SN	10 23		2.7					
KRP	PN	14 09 30		3.1	5.74	220			
CRZ	PN	14 09 36.0	U	1.8	6.28	260			
TRZ	IPN	14 09 39.5	D	1.9	6.54	203			
	ESN	10 49.3		0.4					
CNZ	PN	14 09 42		1.7	6.74	212			
	SN	10 53		-0.7					
CAZ	PN	14 09 56.3		-0.2	7.96	202			
	SN	11 24		1.1					
MNG	PN	14 09 55		-1.7	7.96	207			
	SN	11 25		2.0					
WEL	PN	14 10 06		-2.0	8.81	208	6.2		
	P*	36		-1.2					
	SN	11 40.3		-2.8					
	EL	12 30							
COB	PN	14 10 14		-3.8	9.55	216			
	SN	12 01.3		0.6					
CIZ	PN	14 10 35.0		2.4	10.67	167			
	SN	12 28		0.9					
GPZ	PN	14 10 42.5		-3.3	11.68	208	6.3		
	SN	12 49.3		-1.4					
MJZ	PN	14 10 58		-2.8	12.85	213			
	SN	13 16		-1.9					
OHZ	PN	14 11 07		-2.3	13.52	209			
	SN	13 34		0.7					
ROX	SN	14 13 56		-0.1	14.52	212			
	EL	15 00							
MSZ	PN	14 11 19		-3.7	14.58	217			
	SN	13 57		-0.5					
MNW	EPN	14 11 33.3		-1.0	15.53	215			
	SN	14 20.3		1.7					

	H M S								72/ 410
AUG 25	14 09 05.8	39.97S	176.72E	33 KM	SE 4.6		AVG MAG		3.2
	+- 4.4	0.19	0.53	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ IPN	14 09 14.9	U	-0.1	0.43	11			
	CAZ ES*	14 09 40		1.7	1.00	202			
	E	46							
	HNG PN	14 09 21.0		-3.7	1.14	235		3.1	
	CNZ PN	14 09 27.5		2.2	1.19	310		3.2	
	THIS SOLUTION IS RENDERED DOUBTFUL BY INTERFERENCE FROM THE PRECEDING SHOCK								

	H M S								72/ 411
AUG 27	00 50 51.1	41.61S	174.80E	12 KM	SE 1.7		AVG MAG		4.1
	+- 0.5	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL IPG	00 50 59.3	DSE	1.8	0.32	356	4.2		
	SG	51 04		1.4					
	HNG IP*	00 51 11.1	D	-0.1	1.12	28			
	S*	25		-1.3					
	COB IPN	00 51 19.1	U	-0.1	1.64	288		4.6	4.6
	SN	39		-0.9					
	TNZ				2.44	352		3.9	4.0
	CNZ PN	00 51 30.2		-0.2	2.47	14		4.8	4.8
	PG	38		-3.1					
	S*	52 09		1.9					
	TRZ PG	00 51 44		1.0	2.57	38		4.2	
	KRP P*	00 51 56		0.1	3.72	9			
	I	52 00							
	S*	43		-1.6					
	GNZ EPG	00 52 13		3.9*	3.86	41		4.2	4.1
	SN	30.5		-2.8					
	NJZ PN	00 51 53		2.2	3.98	232		3.5	3.4
	PG	52 11		-0.5					
	SN	37		0.9					
	WTZ				3.99	26		3.6	
	MSZ P*	00 52 30		-3.0	5.89	236		3.6	3.6
	PG	49		-1.2					
	SN	53 21.5		-0.7					
	E	36							
	MNW ESN	00 53 43		2.3	6.67	229			
	CIZ SN	00 53 43		-0.3	6.77	113			
	FELT WELLINGTON MM IV								

	H M S								72/ 412
AUG 27	10 45 39.4	34.92S	179.23E	288 KM	SE 1.6		AVG MAG		4.1
	+- 1.5	0.07	0.13	13					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	EGZ P	10 46 36.5		2.5	2.93	191		4.5	4.4
	S	47 17		0.5					
	GBZ P	10 46 37		-1.7	3.38	244		3.4	
	E	44							
	WTZ IP	10 46 41.3	D	-0.3	3.65	209		4.3	3.8
	SN	47 30		-0.2					
	E	34							
	GNZ P	10 46 44		-0.9	3.95	194		4.3	4.4
	S	47 33		-3.0					
	ONE P	10 46 45.5		-0.2	4.11	255			
	KRP P	10 46 51		2.0	4.31	223			
	TRZ P	10 46 59.5		0.2	5.11	202		4.0	4.3
	S	48 01		1.0					
	CNZ P	10 47 01		0.7	5.28	213		3.9	3.6
	S	48 06		2.2					
	HNG P	10 47 14.5		-0.8	6.52	206			
	S	48 28		-2.5					
	COB EP	10 47 35		0.1	8.10	218			
	S	49 06		0.4					

	MJZ	S	10 50 19			-0.2	11.40	214			
	H M S										72/ 413
AUG 27	16 10 07.1		37.16S	177.25E		184 KM	SE	1.7	AVG MAG		4.0
	+- 1.2		0.06	0.05		9					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	IP	16 10 33.6		D	-0.7	0.85	194		4.5	3.9
		S	53			-2.3					
	ECZ	P	16 10 37.6			0.9	1.16	118		4.2	4.3
		E	40								
		S	59			-0.4					
		E	11 05								
	KRP	P	16 10 41.5			1.2	1.56	240			
		S	11 07			1.2					
	GNZ	P	16 10 40.5			-0.1	1.60	158		4.5	4.8
		S	11 04.5			-2.0					
	GBZ	P	16 10 40.3		U	-1.4	1.71	303		4.0	
	TRZ	P	16 10 52			2.6	2.41	188		4.1	4.3
		E	57								
		S	11 25.5			3.5					
	CNZ	P	16 10 52			2.3	2.44	213		4.0	3.5
		E	11 38								
	MNG	P	16 11 05			-0.5	3.72	201		3.7	3.6
		S	50			-0.5					
	WEL	EP	16 11 16			-0.1	4.55	204		3.4	3.7
		S	12 08.5			-0.9					
	COB	P	16 11 25			-0.3	5.26	220			3.7
		S	12 27			1.0					
	MJZ	S	16 13 41			-2.3	8.55	215			
*	MSZ	S	16 14 23			-1.2	10.30	220			
	H M S										72/ 414
AUG 27	21 01 27.1		44.43S	168.07E		12 KM	SE	1.6	AVG MAG		4.2
	+- 0.8		0.03	0.04		R					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IPG	21 01 33.6			0.8	0.26	204			
	ROX	IPG	21 01 54.7		U	-0.2	1.37	140		4.6	4.4
		SG	02 14			0.5					
	MNW	P*	21 01 52.5		D	0.7	1.39	193		4.4	4.2
		SG	02 12.5			-1.5					
	MJZ	P*	21 01 59.5			0.9	1.78	76		4.1	4.0
		PG	02 03			-0.1					
		SG	26			-1.2					
	OMZ	P*	21 02 05			0.5	2.13	109		4.7	4.3
		PG	13.5			3.4					
		S*	33			0.4					
	WPZ	P*	21 02 06.5			-1.0	2.30	166		3.9	3.9
		S*	36			-1.8					
	GPZ						3.38	79	4.0		
	COB	PN	21 02 39			1.2	4.79	47		4.1	4.0
		SN	03 41.5			9.7*					
		SG	04 06			-2.5					
	H M S										72/ 415
AUG 28	03 21 43.6		38.51S	178.94E		33 KM	SE	2.3	AVG MAG		4.0
	+- 1.9		0.06	0.12		R					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	P*	03 21 58.9		U	0.9	0.73	259		4.7	5.0
		S*	22 10			1.7					
	ECZ	P*	03 22 00			-0.3	0.87	339		4.4	4.2
		E	04								
		S*	16			3.6					
	WTZ	PN	03 22 07.0		D	-2.1	1.62	288		4.8	4.1
		SN	25			-3.3					
	TRZ	ES*	03 22 43			-1.3	1.95	237			3.8
	CNZ	EPN?	03 22 23			-1.4	2.74	254		3.8	
		P*	30.5			-1.3					
	KRP	PN	03 22 26			1.5	2.74	281			

		P*			30		-1.9				
	MNG	PN	03	22	34		0.4	3.40	231	3.3	3.4
		E			56.5						
		SN		23	14		2.3				
	WEL	ESN	03	23	35.5		3.4	4.24	228		3.7
	COB	EPN	03	22	58.5		-2.6	5.43	240		3.3
		SN		24	01		0.2				

72/ 416

	H	M	S										
AJG 28	06	39	26.6	40.16S		176.59E		33 KM	SE	1.2	AVG MAG		4.4
	+-		0.3	0.02		0.02		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ	IP*		06	39	39.0	U	-0.3	0.63	17		4.7	5.1
		S*				49		0.6					
	CAZ	IP*		06	39	42.7	U	0.8	0.79	200			
	MNG	PN		06	39	44.0	U	1.0	0.96	241			
	CNZ	IPN		06	39	47.3	U	0.4	1.25	320			
	WHZ	EP*		06	39	53.5		-1.4	1.57	346		4.9	
	WEL	PN		06	39	54.3	D	0.1	1.78	230	4.2	4.8	4.7
		E			40	04							
		SN				17		1.9					
	GNZ	PN		06	39	55.5		-0.2	1.88	37		4.7	4.7
		I			40	09							
		SN				18.5		0.9					
	TNZ								1.96	299		4.3	4.1
	WTZ	IPN		06	39	58.3	U	-1.7	2.20	8		4.2	4.5
		ISN			40	23.5		-1.7					
	KRP	IPN		06	40	01.6	UN	-0.8	2.38	340			
		P*				10.5		1.9					
	ECZ	PN		06	40	10.5		0.8	2.90	33		4.6	4.2
	COB	PN		06	40	11.5		-0.5	3.07	251		4.5	4.7
		P*				21.5		1.1					
		SN				47		0.4					
	AUC	PN		06	40	20		1.0	3.59	336			
	GBZ	PN		06	40	24.5		-0.6	4.03	347		4.1	
	KAI	SN		06	41	23		0.4	4.55	237	4.8		
	MJZ	SN		06	41	55.5		-0.6	5.94	228		3.6	3.7
	CIZ	EPN		06	40	58		1.4	6.35	129			
		SN			42	05		-1.0					
	GHZ	SN		06	42	06		-2.1	6.44	219			
	MSZ	SN		06	42	39		-2.3	7.83	232			
	MNW	SN		06	43	01		0.4	8.64	227			

FELT MM IV AT WAIPAWA (50) AND DANNEVIRKE (63)

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	H	M	S										
AJG 29	19	38	22.2	37.99S		179.20E		33 KM	SE	1.2	AVG MAG		4.0
	+-		0.7	0.03		0.03		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	IPN		19	38	32.5	U	-1.0	0.59	300		4.0	3.7
		SN				44		2.1					
	GNZ	PN		19	38	42		1.0	1.13	234		4.2	4.2
		S*				59		0.6					
	WTZ	IPN		19	38	48.9	U	-0.5	1.74	270		4.5	
	TRZ	PN		19	38	59.5		0.8	2.42	229		4.0	4.1
		S*			39	38		1.0					
	KRP	PN		19	39	04		-1.2	2.89	270			
		SN				37.5		-0.3					
	CNZ	PN		19	39	08.7	U	0.6	3.10	246		4.0	3.8
	MNG	PN		19	39	18		-0.9	3.90	227		3.9	3.8
		SN			40	03.5		1.2					
	ONE	E		19	39	29			4.46	298			
	WEL	SN		19	40	24		1.2	4.74	225	4.1		4.0
	COB	PN		19	39	44.5		-1.2	5.87	236		3.6	3.7
		ESN			40	48.5		-1.6					
	CIZ	E		19	40	02			6.76	153			
		SN			41	12		0.6					
	GPZ	SN		19	41	29		-1.3	7.56	219	4.5		
	MJZ	SN		19	42	01.5		-1.2	8.91	225			

	H M S							72/ 418
AUG 29	22 04 01.9	37.39S	176.44E	245 KM	SE	1.4	AVG MAG	4.3
	+- 1.0	0.05	0.07	9				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP	22 04 33.6	U	-1.1	0.59	133			
KRP	P	22 04 35.8	U	0.3	0.79	244			
GBZ	P	22 04 39.2		-1.5	1.57	330		3.5	
GNZ	IP	22 04 41.5	D	0.3	1.64	131		5.4	4.7
	S	05 09		-2.5					
ECZ	P	22 04 41.5		-0.0	1.68	94		4.3	4.3
	S	05 12.5		0.4					
CNZ	P	22 04 43		0.8	1.76	203		3.7	3.6
	S	05 15		1.7					
TRZ	S	22 05 18.5		1.6	1.99	171		4.2	4.6
MNG	IP	22 04 56.2	U	0.3	3.12	194		4.4	4.3
	S	05 37		-0.8					
WEL	(P)	22 05 07		1.9	3.92	199	4.0	4.1	4.1
	S	54		-0.1					
COB	P	22 05 13		0.7	4.53	218			5.6
	S	06 07		-0.2					
GPZ	P	22 05 42		1.9	6.75	204	4.4		
	S	06 55.5		-1.4					
MJZ	P	22 05 54		0.2	7.84	213			
	S	07 19		-2.5					

	H M S							72/ 419
AUG 30	02 07 54.1	41.33S	173.74E	33 KM	SE	1.6	AVG MAG	4.0
	+- 0.3	0.03	0.03	3				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP*	02 08 10.5	D	1.3	0.78	87	3.7	4.3	4.3
	S*	22.5		2.4					
COB	IP*	02 08 11.0	D	1.4	0.80	287		4.2	4.3
	S*	23		2.3					
MNG	IPN	02 08 18.0	D	0.1	1.50	62		4.1	4.2
	S*	39.5		-1.7					
GPZ	EPN	02 08 32		0.3	2.50	199	4.0		
	SN	59.3		-0.4					
CNZ	PN	02 08 31.3	D	-0.3	2.54	34		4.1	4.3
	P*	41.5		2.7					
	SN	09 02		1.0					
TRZ	ESN	02 09 13		2.0	2.94	54			4.0
MJZ	EPN	02 08 48.5		1.9	3.59	221		3.1	3.7
	SN	09 26		-0.8					
KRP	PN	02 08 47		-0.7	3.67	23			
	SN	09 27		-1.7					
	S*	45		-1.3					
WTZ	SN	02 09 39.0		-2.0	4.18	38			3.6
GNZ	SN	02 09 40		-2.6	4.24	52			4.6
OMZ	SN	02 09 43		-0.3	4.27	208			3.9
ROX	SN	02 10 05		-1.9	5.25	216			3.8
MSZ	PN	02 09 11		-0.5	5.42	230		3.3	3.7
	SN	10 09		-2.1					
MNW	SN	02 10 32.5		0.5	6.29	223			
CIZ	SN	02 11 04		0.4	7.61	113			

FELT FIGHTING BAY (78)

	H M S							72/ 420
AUG 30	08 06 55.0	41.03S	174.18E	12 KM	SE	1.7	AVG MAG	4.0
	+- 0.4	0.03	0.03	3				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IPG	08 07 06.7	D	1.1	0.51	120	4.2	4.4	4.6
	SG	14.5		1.8					
MNG	IP*	08 07 14.4	D	-0.0	1.07	68		4.5	
	S*	31		2.1					
COB	IP*	08 07 14.5	D	-0.3	1.09	267		4.4	4.4
	S*	31		1.5					
TNZ					1.85	5		3.7	3.8

CNZ	PN	08	07	29.5	0.2	2.11	30		4.4	4.5
	PG			38	0.3					
	SN			54	-0.8					
	S*		08	00	-0.0					
TRZ	EPG	08	07	43	-2.7	2.50	55			3.8
	ESN		08	02	-2.9					
	ES*			13	1.1					
	ESG			20	0.6					
GPZ	SN	08	08	12	-2.3	2.90	203	3.4		
	ES*			21	-2.7					
KRP	PN	08	07	45.5	0.2	3.28	19			
	PG		08	02	0.8					
GNZ	SN	08	08	33.5	-2.4	3.80	52			4.2
MJZ	PN	08	07	55.5	0.0	4.03	222		3.7	3.4
	SN		08	42	0.6					
ONZ						4.69	210			3.5
MSZ	PN	08	08	20	-0.0	5.86	230		3.7	3.8
	SN		09	26	0.5					
MNW	SN	08	09	49.5	3.3	6.73	223			
CIZ	SN	08	09	56.5	-5.5*	7.44	116			

FELT HIGHBURY (68) MM III

72/ 421

	H	M	S										
AUG 30	22	03	47.7	38.78S	175.43E	187 KM	SE	1.8	AVG MAG		4.2		
	+-		1.0	0.06	0.06	8							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		IP		22	04	14.9	D	1.7	0.43	168			
			S				33		0.2					
	KRP		IP		22	04	15.9		0.6	0.86	5			
			S				36		-0.6					
	TNZ									0.92	243		3.8	2.9
	TRZ		P		22	04	21.5		2.5	1.33	126		4.2	4.4
			S				45		1.9					
	WTZ		P		22	04	20		-0.1	1.46	58		3.3	3.8
			S				42		-3.2					
	MNG		IP		22	04	25.3	U	1.9	1.84	179		4.2	4.6
			S				51		-0.8					
	GNZ		P		22	04	27.2	U	1.3	2.03	87		4.8	4.7
			S				53		-2.4					
	WEL		P		22	04	33.5		1.6	2.56	191	4.4	4.2	4.6
			S			05	07		0.8					
	ECZ		P		22	04	34.5		1.0	2.68	67		4.7	4.2
			S			05	07		-1.8					
	COB		P		22	04	38.5		-0.0	3.10	221		3.8	3.8
			S			05	18		0.3					
	GPZ		P		22	05	08		1.0	5.34	202	4.3		
			S			06	05		-2.6					
	MJZ		EP		22	05	21		0.1	6.41	214			
			S			06	30		-3.4					

72/ 422

	H	M	S										
AUG 31	08	56	16.1	37.44S	177.34E	165 KM	SE	1.7	AVG MAG		4.9		
	+-		0.9	0.04	0.04	5							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP		08	56	39.5	U	-0.5	0.61	207		5.0	4.8
			S				56.5		-1.9					
	ECZ		P		08	56	41.3	U	-1.2	0.99	105		5.3	5.4
			E				54.5							
			S			57	02		-0.8					
	GNZ		IP		08	56	45.9	UNE	0.5	1.32	156		6.0	5.7
			S			57	07		-1.0					
	KRP		IP		08	56	49.0	UW	1.7	1.51	251			
			E				59							
			S			57	13		1.7					
	GBZ		IP		08	56	50.0	D	-1.7	1.92	309		4.6	
	AUC		IP		08	56	55.8	D	1.8	2.13	285			
	TRZ		P		08	56	55.9	D	1.5	2.15	191		4.8	5.3
			S			57	28.5		4.9*					

	CNZ	IP	08 56 57.9	U	2.4	2.25	218			4.4	4.3
		ES	57 25		-0.9						
		E	34								
	ONE	P	08 57 03		-0.7	2.91	304				
	MNG	IP	08 57 11.8	U	0.8	3.49	204			4.4	4.6
		S	54.5		1.3						
	WEL	P	08 57 21.5		-0.3	4.33	207	5.1		4.4	4.8
		E	34								
		S	58 13.5		1.0						
	COB	P	08 57 32		0.0	5.10	223			4.0	4.5
		S	58 33		2.3						
	GPZ	E	08 58 04			7.20	208	5.0			
		S	59 18		-2.5						
	CIZ	E	08 58 16			7.99	146				
		S	59 41		1.8						
	MJZ	EP	08 58 15		-0.2	8.37	216				
		S	59 45.5		-2.7						
	MSZ	S	09 00 27.5		-2.4	10.13	222				

	H M S								72/ 423
AUG 31	16 48 25.1	41.01S	172.73E	12 KM	SE 1.4		AVG MAG		3.3
	+- 0.9	0.04	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB IPG	16 48 27.5		-0.2	0.08	180			
	ESG	29.5		-0.0					
	WEL PG	16 48 55.5		-1.2	1.56	101	2.9	3.1	3.7
	S*	49 15.5		1.9					
	SG	18		0.2					
	MNG P*	16 49 03.5		1.0	2.12	80		3.4	3.4
	SG	34.5		-2.2					
	CNZ P*	16 49 15		0.6	2.82	51		3.5	3.4
	PG	21		-1.1					
	SG	50 01		1.0					
	FELT COBB RIVER (75)								

	H M S								72/ 424
AUG 31	23 58 25.3	44.90S	167.78E	150 KM	SE 0.9		AVG MAG		3.8
	+- 0.9	0.03	0.04	6					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ IP	23 58 45.8	U	-0.0	0.25	23			
	S	59 02		0.4					
	MNW IP	23 58 49.2	U	-0.1	0.89	187		4.2	4.3
	S	59 06.5		-1.3					
	ROX P	23 58 53.5	U	1.2	1.23	119		4.0	3.8
	S	59 14		0.8					
	WPZ IP	23 59 00.0	D	0.3	1.91	157		3.6	4.1
	S	26		-0.2					
	MJZ P	23 59 02.4		0.1	2.13	66		3.3	3.4
	S	30.5		-0.1					
	GPZ S	24 00 05		-1.1	3.69	73	3.6		

	H M S								72/ 425
SEP 01	09 04 15.5	41.71S	172.17E	12 KM	SE 1.7		AVG MAG		3.3
	+- 0.6	0.04	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB PG	09 04 31		0.2	0.75	35		3.7	3.9
	SG	42.5		1.4					
	WEL PG	09 04 54		-1.9	2.00	79	2.9	3.4	3.6
	SG	05 20		-2.9					
	GPZ EP*	09 04 53		2.0	2.02	170	2.9		
	EPG	56		-0.3					
	ES*	05 20		2.3					
	SG	28		4.5*					
	MJZ E(PN)	09 04 57		0.3	2.60	208		3.1	3.0
	PG	05 07		-1.0					
	SN	26		-1.6					
	MNG EPN	09 05 00		1.6	2.73	68		3.6	3.2
	P*	05		1.8					

		S*			39		-0.1					
	MSZ	EPN	09	05	19		-0.5	4.29	225		3.2	3.3
		ESN		06	07		-1.2					
	FELT MURCHISON (80) MM IV											

	H	M	S								72/ 426
SEP 03	00	06	10.0	37.61S	175.60E	12 KM	SE	0.5	AVG MAG		3.5
	+-		0.2	0.01	0.01	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IPG	00	06	16.5	SW	-0.3	0.32	189			
	SG			21		-0.4					
AUC	PG	00	06	30		-0.2	1.00	318			
	SG			43.5		-0.2					
WTZ	P*	00	06	31.2	U	0.3	1.16	109		3.3	3.1
	S*			46.5		0.0					
GBZ	IP*	00	06	34.4	U	-0.5	1.39	356		3.7	3.8
	S*			53.5		0.0					
CNZ	P*	00	06	38.5		0.3	1.59	182		3.9	3.7
	SG		07	03		-0.7					
HNG	P*	00	07	01		-1.5*	3.01	182		3.8	3.0
	SG			51		-0.4					
COR	PN	00	07	13		1.3	4.13	212		3.4	3.2
	P*			22		0.3					
	S*		08	16		0.4					
	FELT SPRINGDALE (25)										

	H	M	S								72/ 427
SEP 03	03	12	11.9	38.31S	176.22E	174 KM	SE	2.1	AVG MAG		4.1
	+-		1.6	0.07	0.07	11					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	03	12	38.5		1.5	0.67	305			
	S			55		-1.2					
WTZ	IP	03	12	36.7	D	-0.4	0.68	62		4.3	3.6
	S			52.5		-3.9					
CNZ	P	03	12	41.5	D	2.1	1.03	211		4.1	3.5
	S		13	02.5		1.9					
TRZ	IP	03	12	44.4	D	2.4	1.32	160		4.3	4.4
	S		13	06		0.9					
GNZ	P	03	12	44		0.8	1.45	104		4.1	4.4
	S		13	06		-1.2					
HNG	IP	03	12	54.6	U	1.3	2.38	194		4.7	4.0
	S		13	25		-0.0					
WEL	IP	03	13	04.1	D	1.0	3.18	200	3.9	4.6	4.0
	S			42.5		0.0					
COR	P	03	13	13		1.2	3.87	223		3.9	4.0
	S			58.5		0.5					
GPZ	S	03	14	45		-3.4	6.02	206	4.2		
HUZ	S	03	15	11.5		-3.4	7.14	216			

	H	M	S								72/ 428
SEP 04	08	32	01.8	37.77S	176.93E	12 KM	SE	1.1	AVG MAG		3.7
	+-		1.1	0.07	0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP*	08	32	05.9	U	-0.8	0.22	168			
KRP	P*	08	32	23		1.0	1.11	262			
	ES*			42		5.1*					
GNZ	P*	08	32	24		0.1	1.23	136		4.1	4.0
	S*			41		0.7					
TRZ	PN	08	32	31		-0.8	1.78	183		3.9	
CNZ	PN	08	32	30		-2.0	1.79	217		3.5	
	S*			57.5		0.1					
HNG	PN	08	32	50		0.8	3.06	201		3.0	
	P*			56		0.7					

	H M S								72/ 429
SEP 04	17 55 36.8	37.40S	176.74E	277 KM	SE	1.7	AVG MAG		4.6
	+- 1.1	0.06	0.07	8					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	P	17 56 12.1	U	-1.2	0.61	161		4.5	4.2
	S	39		-2.9					
KRP	IP	17 56 15.9	D	0.4	1.09	241			
	IS	45		-0.5					
ECZ	P	17 56 18.5		0.5	1.46	102		4.8	4.6
	ES	49		-0.6					
GBZ	IP	17 56 17.0	D	-1.6	1.56	319		4.8	
GNZ	IP	17 56 19.2	U	0.3	1.60	141		5.5	5.4
	S	49		-2.3					
CNZ	IP	17 56 23.4	D	1.3	2.03	207		4.3	4.1
	S	57 00		2.7					
TRZ	P	17 56 24.3	U	1.2	2.15	178		4.5	5.0
	S	57 02		2.8					
ONE	EP	17 56 28		1.4	2.51	310			
TNZ	EP	17 56 30		2.8	2.57	225			
MNG	IP	17 56 35.2	U	-0.1	3.36	197		4.7	4.5
	S	57 21		0.2					
WEL	EP	17 56 44.5		0.2	4.17	201	4.4	4.1	4.3
	S	57 37.5		0.5					
COB	P	17 56 51		-0.9	4.82	219		3.8	4.3
	S	57 50		-0.6					
GPZ	S	17 58 37		-1.6	7.02	205	4.7		
MJZ	S	17 59 03		-0.3	8.12	214			
MSZ	ES	17 59 40		-2.1	9.85	220			

	H M S								72/ 430
SEP 05	02 07 26.4	39.07S	175.42E	163 KM	SE	2.2	AVG MAG		4.2
	+- 1.2	0.06	0.05	10					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	02 07 47.4	U	-1.0	0.16	141			
	I	08 00							
	S	04		-1.2					
KRP	EP	02 07 54.0	U	0.1	1.15	5			
	S	08 10		-5.1*					
TRZ	P	02 07 57.7		3.4	1.19	114		4.3	4.7
	S	08 18		2.3					
MNG	IP	02 07 59.9	U	2.2	1.54	178		4.9	4.1
	S	08 19		-2.8					
WTZ	P	02 07 58.8	U	0.0	1.64	49		3.5	3.7
	ES	08 23		-0.7					
GNZ	P	02 08 04.6	U	1.0	2.08	79		4.3	4.5
	S	28.5		-3.8					
	E	41							
WEL	P	02 08 08		2.2	2.26	192	3.7	4.0	4.1
	E	13							
	S	37		0.9					
	E	44							
COB	EP	02 08 14		0.6	2.88	225		3.9	4.4
	S	52		2.5					
GPZ	S	02 09 37.5		-2.5	5.07	203	4.2		
MJZ	S	02 10 04		-1.8	6.15	216			
CIZ	S	02 10 44		0.3	7.74	132			
MSZ	E	02 09 30.5			7.91	223			
	S	10 46		-1.7					

	H M S								72/ 431
SEP 05	04 46 43.4	39.49S	175.70E	12 KM	SE	1.5	AVG MAG		3.7
	+- 0.4	0.02	0.03	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	04 46 50.5		0.4	0.31	337			
	ESG	55.5		0.9					
TRZ	PG	04 47 01		-0.1	0.87	95		3.8	3.7
	SG	19.5		5.6*					

	TNZ	PG	04	47	04.5		-0.7	1.07	286		3.8	3.4
		SG			21		1.4					
	HNG	IPG	04	47	05.9	D	-0.7	1.14	186		4.2	3.8
		S*			20		0.6					
		SG			23		1.0					
	KRP	P*	04	47	11		-0.3	1.57	355			
		PG			15		-0.2					
		S*			31		-1.2					
		SG			34		-2.4					
	WTZ	P*	04	47	16.5		1.0	1.81	34		3.4	2.8
		ESG			47		2.5					
	WEL	EP*	04	47	17.5		-0.1	1.93	201	3.4	4.0	4.0
		PG			19		-3.5					
		S*			44		0.9					
		SG			47.5		-1.1					
	COB	P*	04	47	30		-2.0	2.78	234		3.6	3.9
		S*		48	10.5		2.0					
	GPZ	SN	04	48	48		-0.1	4.79	208			
	MJZ	SN	04	49	18		1.7	5.96	219			

FELT MOAWHANGO (58) MM V

	H	M	S									72/ 432
SEP 05	14	03	28.3	37.60S		177.69E	154 KM	SE	2.3	AVG MAG		4.5
		+-	1.2	0.06		0.05	9					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	IP		14	03	49.6	D	-1.7	0.68	235		5.0	4.6
		E				59							
		S			04	06		-3.0					
	ECZ	IP		14	03	49.2	U	-2.1	0.68	98		5.1	
	GNZ	IP		14	03	54.4	UN	0.1	1.07	166		5.3	5.3
		S			04	12		-2.3					
	KRP	IP		14	04	02.1	DNE	1.1	1.74	259			
		S				26		-0.2					
	TRZ	IP		14	04	06.6	D	1.8	2.07	199		4.3	4.7
		S				37		4.1					
	GBZ	IP		14	04	06.0	D	-1.0	2.25	307		4.1	
	CNZ	P		14	04	10.0	D	2.1	2.32	226		4.2	4.1
		ES				40		1.7					
	AUC	P		14	04	11.0	D	1.6	2.44	287			
	TNZ	P		14	04	21		3.9	3.05	238			
	HNG	P		14	04	22.8	U	0.2	3.47	209		4.1	4.3
		S			05	05		0.8					
	WEL	P		14	04	34		0.3	4.32	211	4.7	4.1	4.6
		S			05	24.5		0.5					
	COB	P		14	04	45		-0.1	5.19	226		4.0	4.0
		S			05	46		1.5					
	GPZ	S		14	06	29		-3.6	7.20	211	4.7		
	CIZ	S		14	06	46		1.4	7.70	147			
	MJZ	P		14	05	27.5		-0.5	8.41	218			
		S			06	59		-2.6					
	HSZ	S		14	07	40		-4.1	10.20	223			

	H	M	S									72/ 433
SEP 05	19	41	31.1	37.83S		177.15E	149 KM	SE	2.2	AVG MAG		4.4
		+-	1.2	0.06		0.05	9					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	IP		19	41	50.5	U	-0.9	0.20	223			
		E			42	01							
		ES				03.5		-3.5					
	GNZ	IP		19	41	56.3	U	0.4	1.05	140		4.6	5.2
		S			42	14		-1.9					
	ECZ	IP		19	41	55.9	U	-1.0	1.11	83		5.1	4.5
		S			42	16		-0.7					
	KRP	P		19	42	00		1.3	1.29	265			
		S				21.5		1.6					
	TRZ	P		19	42	05.4	U	2.0	1.74	189		4.2	5.0
		S				32		3.7					
	CNZ	P		19	42	07.2	D	2.4	1.86	222		4.2	3.8

		ES			39		8.2*					
	GBZ	P	19	42	07		-0.7	2.10	320		4.0	
	TNZ	EP	19	42	17		3.4	2.57	237			
	MNG	P	19	42	20.1	U	0.1	3.07	205		4.1	4.1
		E			48							
		S			58.5		1.0					
	WEL	EP	19	42	30.5		-0.5	3.91	207	4.4	4.1	4.4
		S		43	17.5		0.5					
	COB	P	19	42	41		-0.7	4.72	225		3.8	4.2
		S		43	37		0.9					
	GPZ	S	19	44	22		-3.5	6.78	209	4.6		
	CIZ	S	19	44	50		1.5	7.74	144			
	MJZ	S	19	44	50		-3.9	7.97	217			
	MSZ	E	19	45	30			9.75	223			
		S			35		-1.2					

	H	M	S									72/ 434
SEP 06	17	12	59.2	36.76S	177.53E	240 KM		SE	1.1	AVG MAG		3.9
		+-	0.8	0.04	0.05	S						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		P	17	13	35		0.0	1.23	139		3.8	3.8
			ES		14	02		-0.6					
			E			05.5							
	WTZ		P	17	13	36		0.6	1.30	199		3.5	3.4
			S		14	02		-1.4					
			E			04							
	GBZ		IP	17	13	37.7	D	-1.2	1.74	287		4.2	
	GNZ		P	17	13	41.5		1.0	1.92	169		3.9	4.6
			S		14	11		-1.4					
	KRP		P	17	13	42.3	U	1.4	1.97	233			
			S		14	14		0.8					
	TRZ		P	17	13	51.3	D	1.4	2.85	191		4.0	4.5
			S		14	30.5		1.2					
			E			32							
	CNZ		P	17	13	52		1.5	2.90	212		3.4	3.4
			ES		14	30.5		0.2					
	MNG		P	17	14	05.0	U	-0.2	4.18	202		4.5	3.8
			S			57		0.5					
	WEL		P	17	14	15	U	-0.4	5.01	205	4.3	4.4	4.0
			S		15	14.5		-0.2					
	COB		P	17	14	23.5		-0.7	5.72	219			3.4
			S		15	29.5		-1.1					
	GPZ		ES	17	16	18		-1.6	7.87	207			

	H	M	S									72/ 435
SEP 08	09	23	00.4	37.59S	175.63E	12 KM		SE	0.9	AVG MAG		3.2
		+-	0.4	0.02	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		PG	09	23	08.1		0.4	0.35	193			
			SG			12.2		-0.4					
	WTZ		EPG	09	23	23.5		-0.1	1.14	111		3.2	
	GBZ		PG	09	23	29.0		0.8	1.37	355		3.2	3.1
			E			31.0							
			SG			46.0		-0.7					

	H	M	S									72/ 436
SEP 08	19	18	19.9	38.36S	178.72E	12 KM		SE	1.9	AVG MAG		3.9
		+-	1.2	0.04	0.07	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		IPG	19	18	33.2	U	0.5	0.62	242			
			ESG			41.2		0.0					
	ECZ		PG	19	18	34.0		0.2	0.68	348		4.3	4.0
			ESG			43		-0.0					
	WTZ		PG	19	18	48.8		0.1	1.42	285		4.1	4.3
			ESG		19	05		-2.9					
	TRZ		EPN	19	18	50		-1.6	1.91	231		4.1	
			EPG			59		0.5					
	KRP		EPG	19	19	14.2		2.7	2.55	279		3.6	

		E			18.5						
	CNZ	PN	19	19	01.0	-0.5	2.62	250		4.1	
		IPG			14.8	1.8					
	GBZ	E	19	19	16		3.35	309		3.6	
	MNG	PN	19	19	07.8	-3.8	3.38	227		3.7	3.6
		E			42						
	TNZ	EP*	19	19	23	2.2	3.50	255		3.9	
	COB	EPN	19	19	39	0.7	5.36	238		3.8	3.8
		E		20	31						

	H	M	S							72/ 437
SEP 08	23	32	58.5	38.61S	178.80E	33 KM	SE 1.3		AVG MAG	4.2
		+-	1.1	0.04	0.07	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP*	23	33	11.4	U	0.6	0.61	266		4.9	
	S*			19.5		-0.1					
ECZ	P*	23	33	15.0		-1.3	0.93	348		4.1	4.1
	E			20.0							
	ES*			28.8		-0.3					
WTZ	P*	23	33	25.0		-1.5	1.55	293		4.2	4.1
	E			34.0							
TRZ	PN	23	33	26.8		0.3	1.80	238		4.1	4.4
	E			41.2							
	SN			46.5		-1.1					
CNZ	PN	23	33	38.0		0.6	2.60	256		3.8	
KRP	E	23	33	56			2.65	284			
	ESN		34	09.0		0.7					
MNG	PN	23	33	45.8		-0.6	3.25	231		4.0	4.0
	ESN		34	19		-3.9*					
GBZ	PN	23	33	53.2		2.7	3.56	311		3.9	
WEL	E	23	34	07			4.09	228	4.5		4.4
	E			39.5							
GPZ							6.88	220	4.8		

	H	M	S							72/ 438
SEP 09	10	37	44.1	40.08S	175.10E	12 KM	SE 1.1		AVG MAG	3.8
		+-	0.4	0.02	0.04	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	10	37	56.0	U	0.5	0.61	152			
	S*		38	04.2		0.2					
CNZ	P*	10	37	59.7		-1.6	0.95	21			
	ES*		38	13		-1.2					
TNZ	P*	10	38	03.2		0.0	1.05	328		3.7	3.7
	S*			17.5		0.1					
CAZ	E	10	38	16			1.19	134		3.8	4.2
	E			27							
WEL	PN	10	38	05.8		-1.0	1.23	192	3.2	4.3	4.0
	SN			23.5		-0.0					
TPZ	EPN	10	38	10		0.6	1.43	69		3.8	3.8
	S*			32.5		3.9*					
KRP	PN	10	38	20.0		0.6	2.18	9		3.9	3.6
	ESN			47.5		1.9					

FELT OKOIA (57) MM V

	H	M	S							72/ 439
SEP 10	12	08	31.4	33.01S	178.90W	662 KM	SE 1.7		AVG MAG	4.2
		+-	1.9	0.21	0.39	30				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	EP	12	10	15		2.0	5.63	234		4.1	
WTZ	P	12	10	14		-1.8	5.99	213		4.4	4.0
	E		11	30							
GNZ	EP	12	10	18		0.8	6.15	203			
	ES		11	40		-1.4					
KRP	EP	12	10	20		-1.5	6.68	221			
TRZ	EP	12	10	30		2.5	7.38	207			
	ES		12	01		0.9					
CNZ	P	12	10	29		-0.7	7.63	214			
	ES		12	04		-0.0					

	MNG	P	12	10	40.5		0.2	8.82	209			
		S		12	24		0.6					
	COB	EP	12	10	54		-1.4	10.47	217			

	H	M	S									72/ 440
SEP 10	22	09	57.0	47.08S		166.13E	33 KM	SE	1.9	AVG MAG		4.9
		+-	1.9	0.14		0.08	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WPZ	IP*		22	10	30.0		-1.1	1.91	78			
		ES*				57		0.6					
	MSZ	PN		22	10	36		-1.5	2.71	28		5.1	
	OMZ	PN		22	10	54.0		0.4	3.89	61		4.7	5.0
		IP*			11	03		-1.8					
		ES*				55		-0.7					
	MJZ	PN		22	10	58		-1.7	4.34	46		4.7	
		EP*			11	16		3.4					
	GPZ	EPN		22	11	20		1.9	5.70	56	4.9		
		E				46							
	COB	PN		22	11	42.5		-1.8	7.64	41			
		ESN			13	07		-0.2					
	CNZ	PN		22	12	24		2.4	10.45	44			
	KRP	EPN		22	12	35		0.0	11.47	41			
	CIZ	E		22	13	01			12.53	82			

	H	M	S									72/ 441
SEP 12	21	22	03.0	37.63S		175.67E	12 KM	SE	0.6	AVG MAG		3.3
		+-	0.2	0.01		0.02	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	PG		21	22	10.0		0.3	0.31	200			
		SG				14.0		-0.1					
	WTZ	EPG		21	22	26		0.6	1.10	109		2.9	2.7
		ESG				40		-0.3					
	GBZ	EPG		21	22	31		-0.8	1.42	354		3.2	3.1
		E				33							
		SG				51.5		0.5					
	CNZ	EP*		21	22	30.2		-0.8	1.57	183			4.9
		PG				35.5		0.7					
		SG				56		-0.0					
	MNG	E		21	22	50			2.99	183		3.0	

	H	M	S									72/ 442
SEP 13	17	09	55.2	44.56S		168.20E	12 KM	SE	1.4	AVG MAG		4.7
		+-	0.6	0.03		0.03	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	P*		17	10	01.0		0.8	0.23	243			
	ROX								1.21	139		4.8	
	MNW	P*		17	10	19.0	U	0.8	1.28	199			
	MJZ	P*		17	10	24.7		-1.1	1.72	71			
	OMZ	EPN		17	10	28.0		0.0	1.99	106		4.8	5.1
		IP*				29.8		-0.6					
		S*				56		-0.8					
	WPZ	EPN		17	10	29		-1.0	2.14	168		4.7	4.6
		EP*				31.2		-1.7					
		ES*			11	02		0.7					
	GPZ	EPN		17	10	46		0.1	3.31	76	4.8		
		EP*				56		3.1					
		E				59.5							
		ES*			11	38		1.6					
	COB	EPN		17	11	05.8		-0.4	4.81	45		4.6	4.5
		SN				59.0		-1.5					
	MNG	PN		17	11	35.0		4.0*	6.66	56			
	KRP	EPN		17	11	57		-0.1	8.63	42			

FELT PARADISE (121) GLENORCHY (121) MM IV

	H M S							72/ 443
SEP 14	21 23 55.7	38.19S	176.76E	12 KM	SE 1.3	AVG MAG		3.8
	+- 0.5	0.04	0.03	R				
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ IPG	21 24 01.0		-0.7	0.27	42			
	KRP PG	21 24 15.0		-1.0	1.00	285		3.7	3.1
	SG	30.3		1.3					
	GNZ PG	21 24 19.2		1.3	1.09	115		4.5	
	CNZ PG	21 24 23.8		0.0	1.38	223			
	ECZ EPG	21 24 26		-0.1	1.50	71		4.1	
	MNG EP*	21 24 43		1.4	2.62	202		3.2	
	EPG	47		-1.7					
	COB EP*	21 25 09		-0.4	4.24	226		4.0	
	E	23							

	H M S							72/ 444
SEP 14	21 40 43.4	34.56S	179.25E	310 KM	SE 1.9	AVG MAG		4.9
	+- 2.2	0.16	0.31	19				
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ E	21 41 49			3.18	190			4.7
	ES	42 27		-0.9					
	WTZ EP	21 41 48		-1.3	3.88	207		4.6	4.4
	ES	42 39		-1.9					
	GNZ P	21 41 53.0		0.2	4.20	193		4.9	5.2
	S	42 48		0.9					
	KRP EP	21 41 59.0		2.8	4.51	221		4.1	
	TRZ ES	21 43 14		3.3	5.35	201			5.0
	MNG P	21 42 22.0		-0.6	6.75	205			
	ES	43 40		-0.5					
	WEL EP	21 42 32		-0.9	7.59	206	5.4		
	S	43 58		-0.9					
	GPZ ES	21 45 02		-0.3	10.47	207	5.5		

	H M S							72/ 445
SEP 16	15 10 23.9	40.69S	172.52E	12 KM	SE 0.8	AVG MAG		3.8
	+- 0.3	0.02	0.02	R				
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB P*	15 10 30.3		-2.0*	0.43	158			
	WEL P*	15 10 54.8		-1.0	1.81	110	3.6	4.2	4.1
	ES*	11 20		0.2					
	KKY P*	15 10 58.0		-0.2	1.94	153			
	E	11 00.5							
	KAI EP*	15 11 00		0.6	2.02	204	3.3		
	E	23							
	ES*	26		-0.1					
	TNZ EPN	15 10 58		0.3	2.07	44		4.0	
	E	11 33							
	MNG EPN	15 11 00		-0.2	2.26	89		3.9	
	EP*	04		0.5					
	CNZ EPN	15 11 07		-0.3	2.76	58		4.2	
	EP*	14		1.8					
	E	51							
	KRP PN	15 11 18.0		-0.8	3.62	41		3.6	
	SN	59.7		-0.6					
	NJZ EPN	15 11 18.8		-0.1	3.63	204		3.3	
	FELT FAREWELL SPIT (72) MM IV								

	H M S							72/ 446
SEP 19	14 31 57.5	38.43S	177.38E	70 KM	SE 1.9	AVG MAG		4.2
	+- 0.9	0.04	0.03	13				
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ IP	14 32 11.3		0.1	0.54	113		5.3	
	S	20.3		-1.0					
	WTZ IP	14 32 11.1		-0.1	0.55	325		4.2	4.4
	S	19.3		-1.7					
	WNZ E	14 32 40.3			1.02	258			4.3
	ECZ P	14 32 18.8		-0.1	1.18	52		4.7	

		E			22.7							
	TRZ	P	14	32	22.0		2.9	1.20	201		4.5	
		E			32							
	KRP	P	14	32	25.0		1.3	1.54	289		3.4	
		ES			44		0.9					
	CNZ	P	14	32	27.9		3.1	1.63	241			
		E			50							
	TNZ	E	14	32	42			2.46	251		3.9	
	MNG	P	14	32	38.5		-0.4	2.63	213		4.0	4.0
		ES		33	11		1.0					
	GBZ	EP	14	32	39		-0.6	2.68	325		3.7	
		ES		33	11		-0.2					
	WEL	P	14	32	49.8		-0.9	3.49	214	4.3	3.9	4.3
		S		33	30.5		-0.5					
	COB	EP	14	33	04		-0.2	4.46	232		3.9	4.3
		S			56		0.8					
	KAI	ES	14	34	32		-4.6	6.12	226	4.6		
	MJZ	ES	14	35	07		-6.5*	7.61	221			

H	M	S										72/ 447
SEP 21 09	27	51	NEAR CHATHAM IS STATION								MAG	3.8
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CIZ	P		09	27	55.4							
	S				59.0							

H	M	S										72/ 448
SEP 22 07	22	20.6	38.66S			175.71E	158 KM		SE 1.5		AVG MAG	3.7
	+-	1.5	0.04			0.05	13					
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP		07	22	45.2	U	1.9	0.56	193		3.6	3.2
	E			23	07.5							
KRP	P		07	22	44.9		0.5	0.74	350		3.1	
	ES			23	02.5		-0.2					
TRZ	IP		07	22	50.6	D	2.0	1.25	136		4.0	3.6
	E			23	17							
GNZ	ES		07	23	19		-1.5	1.81	90			
MNG	P		07	22	56.9	U	0.7	1.97	185		3.8	4.1
	E			23	16							
	S				22.8		-0.8					
GBZ	P		07	23	00.7	U	-1.2	2.44	356		3.4	
WEL	ES		07	23	39		-0.9	2.72	195	4.0		4.0
COB	ES		07	23	53		-0.7	3.34	222			3.6

H	M	S										72/ 449
SEP 22 15	31	01.9	35.11S			178.26E	294 KM		SE 2.1		AVG MAG	4.8
	+-	1.5	0.08			0.10	15					
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	EP		15	31	52		-1.0	2.52	243		3.5	
ECZ	P		15	31	52.4		-1.2	2.58	175		5.0	5.4
	E			32	27							
	ES				35		1.1					
ONE	EP		15	32	01		0.8	3.25	257	4.3		
GNZ	EP		15	32	02		-1.2	3.53	183			
	ES				48		-2.9					
KRP	P		15	32	05.0	U	1.5	3.56	217		4.8	3.6
	E				33							
	ES				54		2.4					
TRZ	P		15	32	14.1	D	-0.7	4.58	194		4.9	5.7
	ES			33	12		0.1					
CNZ	P		15	32	16.6	D	1.3	4.62	207		4.9	4.5
	ES			33	15		2.3					
CRZ	EP		15	32	15.5		-0.1	4.65	277		4.3	
TNZ	P		15	32	23.3		2.8	5.11	216		4.5	
MNG	P		15	32	28.1	U	-2.5	5.92	201		5.2	5.0
	ES			33	38		-2.2					
WEL	P		15	32	38.8		-2.0	6.75	203	5.6		
	ES			33	56.5		-1.8					
CIZ	ES		15	35	07		3.5	9.69	157			

	H M S									72/ 450
SEP 22	21 05 10.0	38.51S	175.84E	169 KM	SE	1.4	AVG MAG			4.8
	+- 0.7	0.03	0.03	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP	21 05 33.8	DSE	-0.4	0.63	338		4.6	4.5	
	S	50.3		-2.1						
	TRZ P	21 05 40.3	1	1.5	1.29	144		5.4	5.3	
	I	41.1								
	ES	06 02.5		0.6						
	TNZ P	21 05 41.0	U	1.4	1.33	239		4.5	3.9	
	ES	06 04.5		2.1						
	GNZ P	21 05 44.5		1.0	1.72	95				
	E	59								
	ES	06 08		-1.3						
	MNG IP	21 05 48.3	U	0.8	2.13	187		5.1	5.0	
	E	06 09								
	ECZ P	21 05 50.2	D	0.3	2.29	70		5.4	5.2	
	S	06 21.0		0.3						
	GBZ IP	21 05 48.9	D	-1.3	2.30	353		4.5		
	CAZ EP	21 05 53		1.6	2.41	173		4.5	4.8	
	E	06 20								
	WEL P	21 05 57.4		-0.1	2.89	196	5.1	4.7	5.2	
	ES	06 32		-1.9						
	ONE EP	21 05 59		0.6	2.97	336	3.8			
	COB EP	21 06 04		-1.3	3.52	222		4.7	5.1	
	E	06.0								
	ES	47		-0.8						
	CIZ E	21 07 09			7.89	136				
	ES	08 30		-0.9						

	H M S									72/ 451
SEP 22	23 13 27.9	38.07S	178.34E	69 KM	SE	1.3	AVG MAG			4.4
	+- 0.7	0.04	0.05	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ P	23 13 39.0	U	-1.2	0.41	23				
	GNZ P	23 13 42.9	D	0.5	0.63	203		5.0	5.1	
	ES	53		-0.2						
	WTZ IP	23 13 48.3	U	0.5	1.07	274		5.1	4.9	
	ES	14 03.5		0.9						
	TRZ EP	23 14 00		1.2	1.90	218		4.5		
	KRP P	23 14 03.3		0.5	2.22	273		4.2	3.9	
	ES	28		-1.5						
	GBZ P	23 14 13.4		-0.2	2.94	308		4.1		
	AUC P	23 14 17.0		1.6	3.08	292				
	TNZ E	23 14 23			3.30	249		4.0		
	MNG EP	23 14 17.5		-2.1	3.38	220		3.8	3.8	
	E	44								
	ONE EP	23 14 28		0.8	3.92	304	4.2			
	ES	15 10.5		-1.9						
	CRZ EP	23 14 55		1.3	5.84	307		4.4		
	CIZ EP	23 15 10		-0.4	7.03	148				
	ES	16 24		-5.5*						
	FELT OPATONUI (37)									

	H M S									72/ 452
SEP 23	00 29 48.8	33.23S	178.82E	590 KM	SE	1.1	AVG MAG			4.6
	+- 1.3	0.11	0.20	15						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GBZ EP	00 31 14.2		-0.2	4.05	222		4.1		
	ECZ E	00 31 24.5			4.46	183		5.0		
	WTZ EP	00 31 20		-1.3	4.97	197		4.9	4.1	
	E	21								
	S	32 34.7		-0.1						
	KRP EP	00 31 25.5		0.7	5.39	209		3.9		
	GNZ P	00 31 26.7		1.5	5.44	187		5.4	4.9	
	ES	32 42		0.3						
	MNG P	00 31 46.0		-0.8	7.84	199				

		ES		33 20		-1.0				
	COB	EP	00	32 00		-0.0	9.22	210		
		ES		33 46		0.8				

	H M S								72/ 453
SEP 23	03 20 51.9	39.11S	177.43E	83 KM	SE	1.7	AVG MAG		4.3
	+- 0.7	0.05	0.05	10					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	03 21 07.5	DNE	0.0	0.62	43		5.0	5.2
	ES	16.5		-2.7					
TRZ	IP	03 21 08.2	D	0.2	0.68	229		4.7	4.7
	ES	23		2.8					
ECZ	EP	03 21 21		1.2	1.64	31		4.4	
KRP	P	03 21 23.0		-0.5	1.93	307		3.4	
	E	22 26							
CAZ	P	03 21 25.0		-0.0	2.04	208			
HNG	IP	03 21 26.2	D	-0.5	2.16	225		4.4	4.0
	ES	52.5		0.1					
TNZ	EP	03 21 32		1.7	2.42	267			3.6
	ES	22 00		1.2					
WEL	IP	03 21 36.8	U	-1.8	3.01	223		4.4	4.2
	ES	22 11.5		-2.2					
GBZ	IP	03 21 42.8	U	0.3	3.29	331		3.8	
COB	P	03 21 53.1		-1.2	4.15	240		4.6	4.2
	ES	22 41		-0.9					
CIZ	EP	03 22 30.3		2.3	6.59	139			
	ES	23 37		-3.3*					

	H M S								72/ 454
SEP 23	07 10 12.1	39.16S	176.01E	12 KM	SE	1.5	AVG MAG		4.0
	+- 0.3	0.02	0.03	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ	P*	07 10 25.0	U	-0.8	0.74	122		4.1	4.7
	S*	36.9		1.0					
TNZ	PG	07 10 37.3	D	-0.0	1.27	268		4.3	
KRP	PN	07 10 36.5		0.9	1.29	343		3.3	3.5
	ESN	53.5		0.5					
WTZ	PN	07 10 36.8	D	-0.3	1.40	33		4.0	4.0
	ESN	54		-1.6					
HNG	PN	07 10 38.8		0.3	1.51	196			4.1
	PG	45.3		2.6					
	E	49.0							
	ESN	57		-1.1					
GNZ	PN	07 10 40.2		-0.1	1.65	72			
WEL	EPG	07 10 59		-0.2	2.33	204		3.9	4.3
	ESN	11 15		-2.2					
ECZ	PN	07 10 51.3		-0.1	2.47	54		4.4	
GBZ	PN	07 10 59.2		0.9	2.97	352		3.4	
COB	EPN	07 11 00		-0.9	3.17	232		3.8	3.9
	EPG	13		-3.1					
	ESN	40		2.4					
	ESG	59.5		0.7					
CIZ	EPN	07 11 58		1.1	7.34	133			
	ESN	13 10		-7.7*					

	H M S								72/ 455
SEP 23	07 15 54.2	37.20S	176.71E	271 KM	SE	1.3	AVG MAG		3.8
	+- 1.6	0.09	0.10	12					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	P	07 16 30.3	D	-0.4	0.82	164		4.0	3.5
	ES	59		-0.3					
KRP	P	07 16 33.0		0.2	1.18	232		3.4	
GNZ	EP	07 16 38.5		1.6	1.78	145			
	ES	17 09		-1.0					
TRZ	EP	07 16 41		-0.9	2.35	178			4.2
	ES	17 21		2.0					
HNG	IP	07 16 53.9	D	-0.5	3.55	195		4.2	3.7
	ES	17 40		-1.2					

	COB	ES	07	18	11		0.4	4.96	217				
	H	M	S										72/ 456
SEP 23	13	31	44.0	39.22S		174.55E	210 KM	SE	1.8	AVG	MAG		4.7
	+-		0.8	0.04		0.05	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	IP		13	32	13.7	U	2.2	0.14	282			
		E				38							
	KRP	P		13	32	19.5		0.7	1.50	31		3.7	3.6
		E				29.2							
		ES				45		-0.7					
	MNG	IP		13	32	21.1	U	1.7	1.57	153		5.1	4.8
		ES				47		0.2					
	TRZ	IP		13	32	22.8	U	1.3	1.79	102		4.9	5.3
		E				45.2							
		ES				49.5		-0.9					
	WEL	IP		13	32	25.7	U	1.4	2.07	176	4.9	5.0	5.4
		S				54.9		-0.5					
	CAZ	P		13	32	26.4		1.6	2.12	143			
		ES				56.5		0.3					
	WTZ	P		13	32	25.8	D	-0.5	2.27	58		4.3	4.4
		E				33.8							
		E				55.5							
	COB	IP		13	32	28.3		1.3	2.33	216			
		ES				59.5		-0.8					
	GNZ	P		13	32	30.1		-1.9	2.76	79			
		E			33	03							
	GBZ	P		13	32	36.8		1.2	3.08	14		3.3	
	ECZ	EP		13	32	40		-0.4	3.48	65		5.2	4.9
		ES			33	21		-3.0					
	GPZ	EP		13	32	55		-0.5	4.70	197	5.5		
		ES			33	47.5		-3.5					
	HJZ	EP		13	33	08		0.2	5.67	211			4.2
		ES			34	09		-4.0					
	HSZ	P		13	33	28.4	U	-1.3	7.36	220			
		ES			34	48		-4.3*					
	CIZ	ES		13	35	13		2.0	8.17	128			
	H	M	S										72/ 457
SEP 24	00	33	53.5	37.78S		178.79E	33 KM	SE	1.4	AVG	MAG		3.8
	+-		0.7	0.04		0.04	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	IP*		00	33	58.9	U	-1.2	0.21	293			
		E				59.9							
		S*			34	03.1		-1.7					
		E				06.7							
		E				08							
	GNZ	P*		00	34	12.2	U	-0.9	1.06	215			4.3
		ESG				32							
	WTZ	PN		00	34	17.4		0.8	1.44	261		4.3	4.0
		S*				38.2		-0.9					
	TRZ	EPN		00	34	29.5		0.5	2.35	220		4.0	3.9
		ES*			35	04.5		-1.6					
	KRP	PN		00	34	33.0		0.8	2.58	266		3.7	3.2
		ESN			35	04		2.4					
	CNZ	PN		00	34	37.1		0.3	2.92	240		3.8	3.6
		E			35	15							
	GBZ	PN		00	34	38.0		-1.0	3.08	299		3.5	3.3
		ESN			35	15		1.4					
	MNG	PN		00	34	47.0		-2.3	3.83	221		3.5	3.6
		ESN			35	33		1.0					
	COB	ESN		00	36	20		1.9	5.74	233			
	CIZ	EPN		00	35	34		0.4	7.10	152			
		ESN			36	51		0.3					

	H M S									72/ 458
SEP 24	17 23 22.8	38.41S	176.04E	173 KM	SE	1.1	AVG MAG			3.9
	+- 0.8	0.03	0.04	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P	17 23 48.2	D	0.7	0.62	321		3.4	3.1	
	ES	24 07		0.4						
	WTZ EP	17 23 48.5		-0.4	0.86	61		3.2	3.5	
	ES	24 08		-1.2						
	CNZ IP	17 23 50.5	U	1.5	0.88	206		3.9		
	TRZ P	17 23 54.3		1.8	1.29	152		4.6	4.1	
	ES	24 16		0.6						
	GNZ P	17 23 56.0		0.8	1.58	99		4.0	4.2	
	ES	24 19		-1.2						
	GBZ P	17 24 01.6		-0.8	2.23	348		3.5		
	MNG P	17 24 03.1		0.6	2.25	191		4.7	3.8	
	ES	33		-0.1						
	WEL EP	17 24 11.5		-0.6	3.03	198		4.5	3.9	
	ES	49		-1.1						
	COB ES	17 25 04		-0.9	3.69	223			3.9	

	H M S									72/ 459
SEP 24	21 27 26.1	39.43S	174.52E	217 KM	SE	1.3	AVG MAG			4.3
	+- 0.8	0.04	0.05	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ IP	21 27 57.7	D	0.9	0.83	74		4.6	4.6	
	ES	28 20		-0.6						
	MNG IP	21 28 00.9	U	0.2	1.40	148		4.8	4.6	
	ES	26.5		-1.1						
	KRP IP	21 28 03.3	D	-0.0	1.70	28		3.9	3.2	
	S	32.7		0.6						
	TRZ P	21 28 05.8		1.7	1.79	95		4.4	4.8	
	E	26								
	S	36.0		2.5						
	WEL P	21 28 03.8		-1.1	1.87	174		4.1	4.6	
	ES	33		-1.9						
	CAZ EP	21 28 07		1.1	1.97	139		4.5	4.3	
	ES	38		1.3						
	WTZ IP	21 28 10.0	D	-0.4	2.41	54		4.2	3.8	
	ES	44.5		-0.2						
	GNZ EP	21 28 16		0.7	2.84	75				
	ES	52.5		-0.9						
	GBZ P	21 28 20.8		0.3	3.29	14		3.5		
	ECZ EP	21 28 24		-0.2	3.60	63		4.7	4.3	
	ES	29 06.5		-2.7						
	GPZ EP	21 28 35		-0.1	4.49	198	5.0			
	ES	29 21		-7.8*						

	H M S									72/ 460
SEP 25	11 13 04.4	40.73S	174.51E	12 KM	SE	1.0	AVG MAG			3.8
	+- 0.3	0.02	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL IP*	11 13 15.7	U	0.2	0.59	160	3.6	3.8	4.1	
	ES*	24		0.3						
	MNG IP*	11 13 18.4	U	0.1	0.75	81		3.7	3.8	
	S*	28.6		-0.0						
	COB EPN	11 13 29.5		0.2	1.39	255		3.8	3.9	
	ESN	47		-0.7						
	TNZ PN	11 13 32.2		0.8	1.55	356		3.9	3.4	
	ESN	53		1.7						
	CNZ PN	11 13 32.9		-0.8	1.73	28		3.9	3.9	
	E	46								
	ESN	55		-0.3						
	E	14 14.5								
	TRZ E	11 13 48			2.13	57				
	KRP EPN	11 13 48.5		-1.5	2.92	16		3.3		
	GNZ ESN	11 14 31		-3.1*	3.42	54			3.9	

	H M S										72/ 461
SEP 25	23 16 07.7	40.47S	173.58E	154 KM	SE 1.3		AVG MAG				4.2
	+- 0.7	0.04	0.04	7							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	COB P	23 16 32.4		0.3	0.89	226		4.5	4.5		
	E	45.5									
	ES	50		-1.0							
	WEL IP	23 16 35.8	U	0.7	1.22	132	4.1	4.8	4.6		
	S	56.0		-0.1							
	TNZ EP	23 16 38		0.9	1.42	26		4.2	3.9		
	E	56									
	ES	59		-0.7							
	MNG P	23 16 38.8		1.3	1.46	96		4.8	4.4		
	ES	17 01		0.7							
	E	03.7									
	CNZ IP	23 16 43.6	U	0.5	1.98	51		4.3	3.7		
	E	17 04									
	ES	10		-0.4							
	CAZ P	23 16 45.4		1.3	2.06	103		5.0			
	TRZ E	23 16 57			2.65	71		4.1	4.4		
	ES	17 26		0.8							
	KRP P	23 16 57.8		2.3	2.96	32		3.4	3.8		
	E	17 28									
	GPZ ES	23 17 39.0		-0.7	3.30	192	4.6				
	WTZ ES	23 17 46		-1.4	3.63	48			3.8		
	GNZ P	23 17 05.8		-1.7	3.89	63		4.8	4.6		
	ES	51		-2.4							
	HJZ EP	23 17 11		-0.6	4.21	212		3.4	3.5		
	E	54.5									

	H M S										72/ 462
SEP 26	14 24 09.6	37.40S	176.87E	257 KM	SE 1.2		AVG MAG				4.1
	+- 1.0	0.05	0.06	7							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	WTZ P	14 24 43.7	U	-0.1	0.59	171		4.3	3.6		
	ES	25 09.5		-0.9							
	KRP P	14 24 47.9		1.1	1.18	243		3.4			
	ES	25 17		1.4							
	ECZ P	14 24 47.9		-0.1	1.36	103		4.6			
	GNZ IP	14 24 50.0	U	0.7	1.54	144		4.4	4.7		
	E	25 18									
	ES	20		0.2							
	GBZ P	14 24 48.2		-1.7	1.62	316		3.7			
	TRZ EP	14 24 56		1.6	2.15	181			4.5		
	E	25 01.5									
	E	26									
	ES	28		-1.1							
	MNG EP	14 25 07		-0.3	3.39	198		4.3	3.9		
	ES	52		-0.2							
	COB ES	14 26 23		-0.5	4.89	220					

	H M S										72/ 463
SEP 27	13 28 03.2	33.15S	179.53E	393 KM	SE 2.2		AVG MAG				4.5
	+- 2.6	0.26	0.42	42							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	WTZ P	13 29 28.2		0.1	5.26	203		4.7	4.1		
	S	30 32.0		-2.7							
	GNZ EP	13 29 32		-0.0	5.62	192		5.3	4.7		
	ES	30 43		1.3							
	KRP P	13 29 35.3		2.1	5.78	213		3.8			
	TRZ EP?	13 29 45		0.3	6.76	198					
	ES	31 07		2.3							
	MNG EP	13 29 58		-2.5	8.13	202					
	ES	31 31		-2.0							
	COB ES	13 32 05		1.1	9.61	212					

	H M S								72/ 464
SEP 28	03 06 28.8	40.79S	174.60E	12 KM	SE 1.1		AVG MAG		3.8
	+- 0.3	0.02	0.02	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP*	03 06 39.2	U	0.6	0.51	166	3.5	3.9	4.1
	ES*	47		1.2					
MNG	IP*	03 06 40.9	D	-0.7	0.69	76		3.7	3.9
	ES*	50.5		-0.6					
COB	EPN	03 06 53.5		-0.9	1.45	257		3.7	4.0
	ESN	07 12.5		-0.8					
TNZ	EPN?	03 06 55.5		-1.0	1.61	354			3.3
	EP*	59		1.7					
	ES*	07 20		1.3					
CNZ	PN	03 06 56.9		-1.3	1.74	25			
	EPG	07 05		0.9					
	ESN	19		-1.0					
KRP	EP*	03 07 21		0.7	2.95	15			
	S*	59		-0.0					

	H M S								72/ 465
SEP 28	05 31 25.4	38.26S	175.96E	197 KM	SE 1.2		AVG MAG		4.5
	+- 0.9	0.04	0.04	7					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	05 31 52.0	USW	-0.2	0.47	315			
	ES	32 12		-0.8					
CNZ	P	05 31 55.9		1.0	1.00	199		4.[illegible]	
TRZ	P	05 31 59.9		1.2	1.46	153		4.5	4.9
	ES	32 26		1.6					
TNZ	EP	05 32 01		1.5	1.55	233		3.8	
GNZ	IP	05 32 00.8		0.2	1.66	104		4.7	5.1
	ES	27		-0.8					
ECZ	EP	05 32 04		-1.3	2.12	75		4.9	4.3
	ES	36		0.0					
MNG	IP	05 32 07.9	U	-0.3	2.39	189		4.8	4.5
	S	40.0		-1.3					
CAZ	ES	05 32 48		1.1	2.65	176			
WEL	P	05 32 16.3		-1.1	3.16	197	4.4	4.4	4.4
	ES	56.2		-1.3					
COB	EP	05 32 26		1.2	3.77	220			4.4
	ES	33 10		-0.7					

	H M S								72/ 466
SEP 28	13 57 24.2	39.49S	174.19E	190 KM	SE 1.7		AVG MAG		3.9
	+- 1.9	0.06	0.07	16					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	13 57 56.2		2.4	1.10	75		3.7	3.6
	ES	58 18		1.3					
MNG	IP	13 57 58.4	U	1.1	1.51	139		4.6	3.5
	ES	58 22		-0.9					
WEL	EP	13 58 01.5		0.7	1.85	166		3.9	3.8
	ES	28.5		-0.4					
KRP	ES	13 58 29		-0.6	1.89	35			
COB	EP	13 58 02		0.3	1.94	214			4.0
	ES	29		-1.6					
TRZ	ES	13 58 34		1.5	2.04	93			3.9
WTZ	ES	13 58 44		-1.2	2.66	56			
GNZ	ES	13 58 52		-2.5	3.11	75			4.1

	H M S								72/ 467
SEP 29	00 06 03.4	46.70S	165.11E	133 KM	SE 0.6		AVG MAG		3.8
	+- 0.8	0.04	0.05	9					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	EP	00 06 38		0.4	1.97	63		4.[illegible]	3.9
	ES	07 04		0.2					
WPZ	EP	00 06 45.5		-0.1	2.58	91		4.2	4.0
	ES	07 17		-0.7					
HSZ	P	00 06 49.1		0.3	2.83	45		3.3	3.6

		ES		07 23		-0.4					
	ROX	ES	00	07 32		0.6	3.18	69			3.8
	MJZ	ES	00	08 06		-0.4	4.65	56			3.4

	H	M	S									72/ 468
SEP 29	03	22	02.1	44.92S	167.71E	84 KM	SE	1.5	AVG MAG			3.7
	+-		2.0	0.07	0.07	15						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	HSZ		P	03	22	15.9	U	0.7	0.29	32			
			ES			25		0.0					
	NNW		P	03	22	20.4	D	0.1	0.87	184		3.8	4.0
			S			32.3		-1.6					
	ROX		P	03	22	26.8		1.5	1.27	117		4.1	3.5
			ES			44		1.3					
	MJZ		ES	03	23	02		-1.3	2.18	66			3.1
	ONZ		ES	03	23	05		-0.7	2.28	95			

	H	M	S									72/ 469
SEP 29	17	05	29.7	32.86S	178.72W	285 KM	SE	1.4	AVG MAG			4.8
	+-		1.7	0.21	0.31	24						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		EP	17	06	51.5		0.6	5.32	204		4.9	4.7
			ES		07	55		0.5					
	WTZ		EP	17	07	01		-0.6	6.20	213			
			ES		08	13		-0.7					
	GNZ		EP	17	07	03		-0.4	6.35	204			
			ES		08	16		-1.0					
	KRP		E	17	07	22			6.89	221			
	TRZ		E	17	07	26			7.59	207			
			ES		08	47		2.6					
	MNG		EP	17	07	37		0.3	9.03	209			
			ES		09	16		-0.6					
	WEL		ES	17	09	34		-1.7	9.89	210			
	COB		ES	17	09	54.5		1.0	10.68	217			

	H	M	S									72/ 470
SEP 29	18	07	10.7	39.78S	174.62E	117 KM	SE	1.4	AVG MAG			4.0
	+-		1.1	0.04	0.05	9						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ		ES	18	07	44		0.2	0.62	342			3.4
	CNZ		IP	18	07	31.9	D	-0.1	0.92	51		4.0	3.7
			ES			48		-0.2					
	MNG		IP	18	07	34.8	U	1.3	1.07	142		4.0	4.2
			I			40.1							
			E			43.0							
			S			50.5		-0.4					
	WEL		IP	18	07	39.1	U	0.4	1.51	176		4.1	3.6
			ES			59		-0.8					
	TRZ		EP	18	07	43.5		2.5	1.71	83			3.7
			E		08	11							
	COB		EP	18	07	43.5		-0.3	1.95	227		3.6	4.2
			ES		08	08.5		-0.3					
	GNZ		EP	18	07	54		-2.3	2.87	68		4.6	4.5
			E		08	26							

	H	M	S									72/ 471
OCT 01	04	45	09.7	41.29S	175.18E	12 KM	SE	1.6	AVG MAG			3.7
	+-		1.6	0.09	0.05	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL		IP*	04	45	16.7	D	0.5	0.31	270	3.4		
			S*			20.8		-0.0					
			ESG			22		1.1					
			ESG			22		1.1					
	MNG		IP*	04	45	22.3	D	-0.6	0.71	19		4.0	4.0
			ES*			31.5		-1.1					
	COB		EPN	04	45	39		-1.7	1.86	275		3.5	3.6
			EPG			46		-1.4					
			ESN		46	02		-1.6					

CNZ	PN	04 45 45.9		1.9	2.10	8		3.7	3.7
	E	46 00							
KRP	EP*	04 46 11		2.5	3.37	5			3.3
	ES*	52		-0.7					

FELT HUTT VALLEY (6B) MM IV

	H M S							72/ 472
OCT 02	11 17 32.6	33.03S	179.83E	267 KM	SE 1.9		AVG MAG	4.5
	+- 1.9	0.10	0.13	28				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	11 18 48		1.3	4.77	192		4.7	4.5
	E	19 51							
WTZ	EP	11 18 54.5		-0.5	5.46	204		4.7	4.2
	ES	20 00.5		0.9					
GNZ	EP	11 18 57.5		-1.6	5.79	194		4.4	4.7
	ES	20 07		0.2					
KRP	EP	11 19 04		2.2	6.01	214			
	E	20 21							
CRZ	EP	11 19 03		-0.1	6.12	255			
TRZ	ES	11 20 31.5		-1.1	6.95	200			
MNG	EP	11 19 29		-1.9	8.34	203			
	ES	21 01		-2.8					
COB	ES	11 21 40		2.3	9.84	213			
CIZ	ES	11 22 11		1.1	11.27	167			

	H M S							72/ 473
OCT 02	22 34 59.5	37.26S	179.62W	156 KM	SE 1.9		AVG MAG	4.0
	+- 1.5	0.09	0.07	15				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	22 35 29		-1.0	1.52	253		4.4	4.3
	ES	54		0.6					
GNZ	EP	22 35 41		1.9	2.32	233		4.3	4.6
	ES	36 11		1.5					
WTZ	EP	22 35 42.5		-2.6	2.79	254		4.0	3.8
	ES	36 19		-1.0					
TRZ	E	22 36 44			3.61	230			4.2
KRP	EP	22 35 57		-2.4	3.90	259			3.4
	ES	36 44		-1.5					
GBZ	EP	22 36 04		2.4	4.07	283		3.6	
MNG	EP	22 36 16		1.1	5.08	227		3.5	3.7
	ES	37 13		-0.2					
COB	ES	22 38 02		1.5	7.06	235			
CIZ	EP	22 36 43		1.5	7.08	162			
	ES	37 59		-1.9					

	H M S							72/ 474
OCT 03	06 56 27.5	35.14S	179.86W	33 KM	SE 1.8		AVG MAG	4.1
	+- 1.4	0.06	0.08	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P*	06 57 16.5		-1.1	2.86	206		4.5	4.3
	ES*	56.5		1.2					
WTZ	EPN	06 57 19.3		-3.5	3.81	221		4.3	
GNZ	PN	06 57 25.4		1.3	3.89	205		4.6	4.3
	ESN	58 10		2.6					
GBZ	PN	06 57 24.7		-0.1	3.95	253		3.7	3.5
	ESN	58 09		0.2					
KRP	EPN	06 57 35		0.8	4.64	232		3.7	
ONE	EPN	06 57 36.5		0.6	4.76	261			
CRZ	EPN	06 57 55		-0.1	6.18	274			
MNG	EPN?	06 58 01.8		1.1	6.60	213			
	E	11							
	E	59 30							
	ES*	45		-2.5					
COB	E	07 00 08			8.33	222			
CIZ	ESN	07 00 13.5		-0.5	9.16	165			

	H M S									72/ 475
OCT 03	10 31 50.7	37.19S	177.22E	182 KM	SE 1.0		AVG MAG	4.0		
	+- 1.1	0.04	0.05	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ P	10 32 17.5	D	0.0	0.82	193		4.0	3.5	
	ES	38		-0.2						
	ECZ ES	10 32 43		0.2	1.17	116			4.0	
	KRP IP	10 32 25.2	DNE	1.9	1.53	241		3.9		
	GNZ P	10 32 24.0	DN	0.1	1.59	157		4.9	4.4	
	ES	49		-0.6						
	GDZ P	10 32 23.9		-1.1	1.70	304		3.6		
	TRZ P	10 32 33.9		1.3	2.38	187			4.1	
	ES	33 09		4.2*						
	MNG IP	10 32 47.4	U	-1.2	3.69	201		4.2	3.9	
	ES	33 33		-0.2						
	WEL ES	10 33 52		-0.1	4.51	204			4.1	
	COB ES	10 34 08.5		-0.1	5.23	220			3.8	

	H M S									72/ 476
OCT 03	23 21 16.1	40.92S	175.02E	12 KM	SE 1.4		AVG MAG	3.9		
	+- 0.5	0.03	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL IP*	23 21 24.5	U	0.3	0.41	207	3.9			
	ES*	31		0.9						
	MNG IP*	23 21 25.6	D	0.6	0.46	49				
	ES*	31.5		-0.1						
	COB PN	23 21 44.0		-1.5	1.74	264		3.9	4.1	
	ESN	22 07		-0.2						
	CNZ PN	23 21 45.0	D	-0.8	1.76	13		4.3	4.3	
	PG	54.0		2.2						
	ES*	22 11		0.3						
	E	29								
	TNZ P*	23 21 47.0		-0.9	1.80	344		3.9	3.7	
	ES*	22 14		2.2						
	KRP EP*	23 22 07		-1.8	3.02	8		3.7	3.7	
	ES*	47		-1.4						

	H M S									72/ 477
OCT 04	00 07 02.1	45.13S	167.64E	103 KM	SE 1.4		AVG MAG	3.9		
	+- 1.9	0.09	0.06	17						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MSZ P	00 07 19.5		1.1	0.50	24				
	MNW P	00 07 19.2		-0.5	0.65	181		4.1	4.4	
	S	32.2		-0.9						
	POX P	00 07 28.2		2.3	1.24	107		3.8	3.6	
	ES	44		0.2						
	MJZ P	00 07 38		-1.6	2.32	62			3.6	
	ES	08 07.5		-0.2						
	ONZ ES	00 08 07.5		-0.2	2.32	90			4.0	
	GPZ ES	00 08 45		-0.2	3.86	70				

	H M S									72/ 478
OCT 04	08 59 03.1	40.01S	176.19E	100 KM	SE 1.5		AVG MAG	4.4		
	+- 0.7	0.03	0.04	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TRZ IP	08 59 20.7	D	0.1	0.67	48		4.8	5.0	
	E	26.2								
	ES	31		-2.9						
	MNG IP	08 59 22.0	D	0.2	0.81	221				
	CAZ IP	08 59 24.5		1.9	0.89	178				
	E	33.5								
	ES	38.5		1.0						
	CNZ IP	08 59 23.3	D	0.1	0.95	329				
	TNZ E	08 59 35.5			1.61	300		3.9	4.0	
	E	39.5								
	ES	55.5		3.2						
	WEL IP	08 59 32.0	D	0.1	1.67	220	4.5	5.2	5.0	

		S			53.0		-0.4					
	GNZ	P	08	59	35.9		0.1	1.98	47		4.5	4.5
		E			55							
		ES	09	00	00.5		0.4					
	WTZ	P	08	59	37.7		-0.1	2.12	18			
	KRP	P	08	59	38.3	D	0.2	2.14	346		3.6	3.6
		ES	09	00	03		-1.1					
	COB	P	08	59	47.7		0.1	2.84	247		4.5	4.6
		ES	09	00	20		-1.1					
	ECZ	EP	08	59	49		-0.4	2.96	39		4.7	
	GDZ	P	09	00	01.5		0.4	3.83	352		3.8	
	KAI	EP	09	00	10		1.2	4.39	234	4.5		
		ES			56		-3.1					
	CIZ	ES	09	01	50		-5.6*	6.69	128			

FELT SOUTHERN HAWKES BAY MM IV

	H	M	S									72/ 479
OCT 04	16	39	48.6	38.10S	176.24E	170 KM	SE	1.5	AVG MAG			3.8
	+-		2.5	0.09	0.08	24						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		IP	16	40	13.1	U	0.3	0.58	287		3.4	
	GNZ		EP	16	40	20		-0.1	1.50	112		3.8	4.1
			ES			43		-1.3					
	TRZ		P	16	40	21.8		1.6	1.52	163			
			E			52.5							
	MNG		IP	16	40	31.7	U	-0.6	2.58	193		3.9	3.8
			ES		41	07		1.1					
	WEL		ES	16	41	24		0.6	3.38	199			4.0
	COB		ES	16	41	36.5		-1.7	4.03	221			3.7

	H	M	S									72/ 480
OCT 05	12	21	17.9	41.55S	173.99E	12 KM	SE	1.5	AVG MAG			4.0
	+-		0.4	0.03	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL		IP*	12	21	28.4	U	-1.5	0.64	66	3.8	3.9	4.5
			S*			37.8		-1.0					
	KKY		P*	12	21	34.2	U	-0.1	0.90	194			
			ES*			48		1.5					
	COB		IP*	12	21	37.0	U	-0.1	1.06	296		4.0	
			ES*			52		0.7					
	MNG		IPN	12	21	42.0	U	-1.7	1.46	51		4.4	4.2
			ESN		22	02		-0.8					
	CAZ		E	12	22	22			1.80	70			3.9
	KAI		EPG	12	22	02		0.4	2.16	242	3.3		
			ESG			29		-1.7					
	TNZ		EP*	12	22	00		0.3	2.38	7			3.5
			ESG			37		-1.2					
	GNZ		P*	12	22	04.1		0.1	2.63	27		4.5	4.3
			ES*			41		2.3					
	TRZ		EP*	12	22	12		2.7	2.94	48			
			E		23	05							
	KRP		EP*	12	22	23		-1.2	3.81	19		4.0	3.5
			E		23	06.5							
	WTZ		EP*	12	22	33		1.4	4.24	34		3.7	

FELT BLENHEIM (77) MM III

	H	M	S									72/ 481
OCT 08	03	40	29.8	33.16S	179.53W	427 KM	SE	1.2	AVG MAG			5.0
	+-		1.2	0.13	0.23	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		P	03	41	58.5		-1.2	5.59	210		4.8	4.3
			E		43	07							
			S			10.5		0.0					
	GNZ		P	03	42	03		0.8	5.82	199		5.0	5.0
			S		43	15		0.1					
	KRP		P	03	42	07		0.5	6.23	219			
	TUA		EP	03	42	07		0.3	6.24	205			
			S		43	24.5		1.4					

	TRZ	S	03	43	39	0.5	7.03	204		
	MNG	P	03	42	29	-2.1	8.45	207		
		S		44	05	-2.0				
	WEL	S	03	44	24.5	0.2	9.30	208	5.4	
	COB	S	03	44	39.5	0.0	10.03	216		
	GPZ	S	03	45	23	-0.4	12.17	208	5.5	
	MJZ	P	03	43	27	1.4	13.33	213		
		S		45	47	0.5				

72/ 482

	H	M	S											
OCT 09	00	04	42.6	32.53S		179.78E	468 KM		SE	1.9	AVG	MAG		5.7
			+- 1.2	0.08		0.13	8							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	GBZ	PN		00	06	09		-0.7	5.11	223			4.1	
	ECZ	PN		00	06	12.5		1.5	5.25	191			5.8	5.7
		SN			07	23		2.1						
	ONE	EPN		00	06	14		0.1	5.54	233	5.3			
		SN			07	27		1.1						
	WTZ	PN		00	06	16		-1.5	5.90	202			5.7	5.3
		SN			07	31		-1.5						
	CRZ	PN		00	06	21		0.2	6.23	250				
	GNZ	PN		00	06	20		-1.2	6.26	193				
		SN			07	40		0.8						
	KRP	P		00	06	23.8		1.2	6.40	212				
		S			07	43		1.3						
	TRZ	PN		00	06	31.5	D	-1.5	7.40	198				
		SN			08	02		1.3						
	GNZ	P		00	06	32.5		-1.5	7.49	206				
	MNG	PN		00	06	45		-3.0	8.78	202				
		SN			08	23		-4.5						
	CAZ	PN		00	06	50		1.4	8.83	198				
		SN			08	32		3.6						
	WEL	PN		00	06	55.5		-1.5	9.61	203	6.5			
		SN			08	43.5		-0.4						
	COB	PN		00	07	02.5		-1.3	10.23	211				
		SN			08	54.5		-1.7						
	CIZ	E?		00	09	24			11.76	167				
		S			10	00		33.5*						
	KAI	SN		00	09	30		-0.8	11.98	211	5.8			
	GPZ	PN		00	07	28.5		0.7	12.48	205	6.5			
		SN			09	39		-1.4						
	MJZ	PN		00	07	40		0.7	13.57	210				
		SN			10	03.5		2.0						
	MSZ	P		00	07	58		1.5	15.24	214				
	MNW	P		00	08	09.5		3.1	16.22	212				

72/ 483

	H	M	S											
OCT 09	01	14	59.4	45.44S		167.29E	87 KM		SE	1.5	AVG	MAG		3.9
			+- 1.4	0.05		0.08	10							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	MNW	IP		01	15	12.8	D	-0.7	0.41	146				
		S				23		-1.2						
	MSZ	P		01	15	18.8	D	0.9	0.89	30			3.8	4.2
		E				22.5								
		S				32		0.0						
	ROX	P		01	15	26.5	U	1.7	1.43	92			4.0	3.8
		S				46		2.3						
	WPZ	IP		01	15	27.3	U	-0.0	1.63	139			3.8	3.8
		S				47.5		-0.5						
	OMZ	EP		01	15	41		0.7	2.59	83			3.8	3.9
		ES			16	11		0.1						
		E				13								
	MJZ	P		01	15	41.0		-0.7	2.69	58				
		E				50								
		S			16	13.5		0.0						
	GPZ	S		01	16	48		-2.8	4.20	67	3.7			

	H M S							72/ 484
OCT 09	02 45 20.2	40.43S	174.55E	33 KM	SE 1.4	AVG MAG		4.7
	+- 0.2	0.01	0.02	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	02 45 34.5	D	-0.1	0.74	105			
	S*	46		1.0					
WEL	IP*	02 45 36.9	U	-0.1	0.88	169	4.7	5.2	
	S*	49.5		0.4					
TNZ	P*	02 45 41.4		-1.5	1.24	354		4.7	5.1
	SN	55		-0.7					
	S*	46 00		0.2					
CAZ	PN	02 45 43		0.9	1.36	111		4.7	
	P*	47		2.1					
	S*	46 03		-0.3					
CNZ	PN	02 45 43.5		0.3	1.45	32			
	IP*	44.7		-1.6					
COB	IPN	02 45 44.9	D	0.5	1.53	244			
TRZ	EPN	02 45 49		-1.2	1.95	64		4.9	5.1
	SN	46 12		-0.8					
TUA	PN	02 45 57.5		-1.3	2.58	52			
	P*	46 04		-1.6					
KRP	PN	02 45 59		-0.3	2.61	17			
	SN	46 30		1.0					
	ES*	43		2.4					
WTZ	PN	02 46 04		-1.8	3.09	39		4.4	4.5
	EP*	16		1.7					
	ESN	38		-2.5					
KAI	SN	02 46 43		0.7	3.16	227	4.8		
GNZ	PN	02 46 05		-2.6	3.22	58		4.9	5.1
	SN	44		0.2					
GPZ	P*	02 46 24.5		2.1	3.56	203	4.6		
	SN	48.5		-3.6*					
AUC	PN	02 46 13.5	U	1.2	3.57	3			
	SN	54		1.8					
ECZ	SN	02 47 08.5		2.4	4.14	50			4.8
	S*	30		3.6*					
GBZ	PN	02 46 21		-0.9	4.26	10		4.2	
ONE	EPN	02 46 28.5		1.4	4.64	358	4.8		
	SN	47 19		0.6					
MJZ	EPN	02 46 26		-1.5	4.68	219		4.3	4.3
	SN	47 18.5		-0.6					
OMZ	PN	02 46 36		-0.7	5.36	209		4.2	4.4
CRZ	PN	02 46 48.5		0.9	6.17	345			
	SN	47 54		-1.0					
ROX	SN	02 47 57		-2.2	6.34	216			
MSZ	PN	02 46 52.5		0.7	6.48	227			
	SN	48 02.5		-0.0					
MNW	SN	02 48 25		1.2	7.37	221			

FELT WELLINGTON PROVINCE AND SOUTH TARANAKI

	H M S							72/ 485
OCT 09	21 29 13.0	39.23S	177.22E	12 KM	SE 1.6	AVG MAG		4.3
	+- 0.5	0.02	0.03	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	PG	21 29 23		1.1	0.43	352			
TRZ	IPG	21 29 24.1	U	1.8	0.45	224			
GNZ	PG	21 29 33.0	D	2.6	0.86	47		5.1	4.4
	I	37							
	I	49							
WNZ	PG	21 29 34		-0.6	1.06	304		4.8	4.9
	SG	50		1.1					
MTZ	PG	21 29 37.5		-1.1	1.26	351		4.4	4.2
	SG	57.5		1.9					
CNZ	IPG	21 29 38.2	D	-1.2	1.30	271			
CAZ	PG	21 29 52		1.8	1.84	204		4.3	4.1
KRP	PN	21 29 41		-3.0	1.86	314			
	PG	48		-2.6					

	E		30 19								
MNG	IPN	21	29 44.9	U	0.0	1.93	224		4.4	4.1
	PG		54		2.0					
TNZ	P*	21	29 51.5		-0.4	2.21	270		3.8	3.7
	PG		58		0.3					
	ES*		30 21		-0.1					
	ESG		29		1.4					
WEL	PN	21	29 56		-0.7	2.78	222	4.0	4.3	4.2
	PG		30 10		0.7					
	SN		30.5		0.9					
	SG		48		1.2					
COB	PN	21	30 11.5		-0.3	3.91	240		4.2	4.1
	EP*		20		-1.0					
	PG		29		-3.0					
	S*		31 12		-0.1					
	SG		27		2.3					
GPZ	SN	21	31 35.5		-2.5	5.63	216	4.0		
CIZ	SN	21	32 01		-0.7	6.63	137			
MJZ	PN	21	30 52		-0.6	6.94	225			
	SN		32 08		-1.2					

FELT KUTEMAORI (53) MM IV

	H M S									72/ 486
OCT 10	12 11 15.2	43.58S	171.72E		12 KM	SE 2.1		AVG MAG		3.8
	+- 0.4	0.03	0.03		R					
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
GPZ	PG	12 11 29			-0.2	0.68	100	3.7		
	SG		38.5		0.0					
MJZ	PG	12 11 36			0.3	0.99	246			
	SG		50		1.1					
KAI	PG	12 11 37			-0.2	1.08	348	3.5		
	SG		51		-0.8					
OMZ	EPN	12 11 43			0.2	1.60	201		4.6	4.6
	PG		47		-0.6					
	SG		12 11		1.8					
ROX						2.56	221			3.9
COB	PN	12 11 56.5			0.0	2.60	17		3.8	3.5
	P*		12 04.5		3.7					
	SN		27.5		0.0					
	S*		38.5		3.4					
HSZ	EPN	12 12 02			0.8	2.95	247		4.0	4.2
	P*		09.5		2.8					
	PG		13		-1.9					
	SN		35		-0.8					
	S*		40		-5.5*					
	SG		51.5		-3.1					
WEL	SN	12 12 39			-3.0	3.22	46	3.6		
MNW	PG	12 12 26.5			-2.7	3.66	232		3.5	3.2
	S*		13 08		1.1					
	SG		19		0.4					
WPZ	PG	12 12 26			-3.8	3.69	212		3.4	3.5
	ESG		13 23		3.4					
MNG	PN	12 12 15			-1.3	4.07	45			3.3
	P*		25		-1.0					

FELT LAKE COLERIDGE (100) MM IV

	H M S									72/ 487
OCT 10	12 58 32.8	43.60S	171.71E		12 KM	SE 1.9		AVG MAG		3.8
	+- 0.5	0.03	0.03		R					
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
GPZ	PG	12 58 47			0.2	0.68	98	3.4		
	SG		56.5		0.4					
MJZ	PG	12 58 53.5			0.8	0.98	246			
	SG		59 08		2.0					
KAI	PG	12 58 55.5			0.4	1.10	348	3.2		
	SG		59 09.5		-0.5					
OMZ	PN	12 59 01			0.9	1.58	201		4.5	4.6
	PG		05		0.3					

	SG		27.5	1.5						
ROX					2.54	222				3.8
COB	PN	12 59 16		1.6	2.62	17		3.6		
	P*		22.5	3.7						
HSZ	PN	12 59 19.5		0.9	2.93	247		4.0		4.1
	PG		30.5	-1.6						
	SG	13 00 10		-1.7						
WEL	SN	12 59 57.5		-2.5	3.24	45				
MNW	PG	12 59 45		-1.4	3.64	232		3.7		
WPZ	PG	12 59 44		-3.0	3.67	213		3.4		3.5
	SG	13 00 43		6.6*						
MNG	P*	12 59 42		-1.9	4.09	45		3.4		

	H	M	S							72/ 488
OCT 10	12	58	54.5	43.59S	171.69E	12 KM	SE 2.1	AVG MAG		3.7
	+-		0.6	0.03	0.03	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GPZ	PG	12	59	09.5		0.7	0.70	99	3.4		
	SG			18		-0.3					
MJZ	SG	12	59	30		2.5	0.97	245			
KAI	SG	12	59	31		-0.2	1.08	349	3.2		
OMZ	SG	12	59	50		2.1	1.58	200			4.5
ROX							2.54	221			3.8
COB	P*	12	59	44		3.7	2.62	18		3.9	
	SN	13	00	07		-0.1					
HSZ	SG	13	00	31		-2.1	2.93	247			4.0
WEL	SN	13	00	19		-2.7	3.24	46	3.6		
MNW	PG	13	00	06		-2.1	3.64	232		3.5	
WPZ	PG	13	00	07		-1.7	3.67	212		3.4	3.5
	SG			58		-0.2					
MNG	P*	13	00	06		0.4	4.09	45		3.4	

	H	M	S							72/ 489
OCT 11	00	56	44.0	37.44S	177.57E	33 KM	SE 2.4	AVG MAG		4.6
	+-		0.9	0.05	0.05	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP*	00	57	00.3	D	2.2	0.71	220		5.0	4.6
	S*			12		3.8					
ECZ	IP*	00	57	01.6	U	1.7	0.82	109		5.3	4.9
GNZ	IPN	00	57	05.8	D	1.3	1.26	163		5.0	5.1
	SN			22		2.1					
TUA	EPN	00	57	08		1.4	1.41	193			
KRP	IP*	00	57	13.6	DSE	-0.6	1.68	253			
	S*			34.5		-2.1					
GBZ	IP*	00	57	19.2		-1.6	2.07	305		4.7	
TRZ	PN	00	57	18		0.6	2.19	195		4.7	4.7
	EP*			24		1.1					
AUC	IP*	00	57	23.0	U	-1.8	2.30	284			
CNZ	IPN	00	57	22.2	D	2.4	2.37	221		4.8	4.6
	S*			57.5		0.3					
TNZ	EPN	00	57	33.2	D	4.0	3.05	234		4.3	3.7
	E		58	13.5							
ONE	P*	00	57	41		3.2	3.06	302			
MNG	PN	00	57	34.3		-1.9	3.57	206		4.5	4.5
	P*			44		-2.4					
	ESN		58	17		0.9					
CAZ	PN	00	57	35.5		-1.4	3.62	196		4.7	4.3
WEL	PN	00	57	45.5		-2.3	4.41	209	4.7	4.5	4.5
	SN		58	34		-2.7					
	S*			57		-1.5					
COB	PN	00	57	57.5		-1.3	5.23	224		4.1	4.2
	ESN		59	01		4.6					
GPZ	E	00	59	39			7.29	209	4.9		
	ESN			48		2.3					
CIZ	E	00	58	36.5			7.89	147			
	SN		59	56.5		-3.6					
MJZ	PN	00	58	41		-1.4	8.47	217			
	SN	01	00	13		-1.1					

	OMZ	PN	00 58 48.5		-2.5	9.12	211				
	MSZ	SN	01 00 53		-3.4	10.26	222				
	H M S										72/ 490
OCT 12	08 36 15.9		38.55S 175.80E		169 KM		SE 1.8		AVG MAG		4.3
	+- 1.3		0.06 0.05		9						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	IP	08 36 41.5	D	1.2	0.66	341				
		S	58.5		-0.7						
	CNZ	IP	08 36 42.2	U	1.7	0.68	197		4.1	4.1	
		ES	59		-0.5						
	TUA	S	08 37 02		-2.6	1.09	104				
	TRZ	P	08 36 47		1.9	1.28	142		4.7	4.6	
		S	37 08		0.4						
	GNZ	P	08 36 50		0.2	1.74	94		4.1	4.2	
		S	37 13		-2.8						
	MNG	IP	08 36 54.8	U	1.3	2.08	187		4.8	4.2	
		S	37 23		0.5						
	CAZ	P	08 36 58.9	U	1.9	2.37	172		4.6	3.9	
		S	37 30		1.5						
	WEL	P	08 37 03.9	D	1.0	2.85	196	3.9	4.9	4.3	
		S	38.5		-0.4						
	COB	P	08 37 11.5		0.9	3.47	222		4.0	4.0	
		S	53		0.3						
	MJZ	S	08 39 07		-2.8	6.76	215				
	MSZ	S	08 39 48		-3.1	8.50	221				
	H M S										72/ 491
OCT 12	11 19 09.1		38.48S 175.21E		274 KM		SE 1.3		AVG MAG		5.2
	+- 0.5		0.03 0.05		6						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	IP	11 19 45.8	D	0.6	0.62	25				
		IS	20 13.5		0.0						
	CNZ	P	11 19 47.3		1.5	0.76	160				
		ES	20 15		0.5						
	MTZ	IP	11 19 49.0	D	-1.1	1.49	71		5.1	5.0	
		S	20 19		-2.6						
	TUA	P	11 19 50.8		0.3	1.56	103				
	TRZ	IP	11 19 52.6	D	1.4	1.65	131		5.4	5.4	
		S	20 24.5		0.8						
	MNG	P	11 19 56.0		0.9	2.14	174		5.1		
		S	20 30		-0.9						
	GNZ	IP	11 19 56.3	DSE	0.5	2.21	95		5.6	5.7	
		S	20 30.5		-1.6						
	GBZ	P	11 19 56		-0.3	2.27	6		3.5		
	CAZ	IP	11 20 00.7	D	1.8	2.54	162		5.0	5.3	
		S	40		2.3						
	ECZ	P	11 20 01		-0.0	2.75	74		5.3	5.2	
		S	40		-1.4						
	ONE	P	11 20 02		0.6	2.79	346				
	WEL	P	11 20 02.5	D	0.9	2.82	187	5.9	4.9	5.8	
		S	42		-0.7						
	COB	IP	11 20 06.1	U	0.2	3.22	215				
		S	50		-0.1						
	CRZ	P	11 20 20.5		-0.1	4.53	333		4.4		
		E	42								
	MJZ	P	11 20 44.5		-0.7	6.56	211				
		S	21 59		-1.5						
	OMZ	P	11 20 55		0.3	7.32	205				
		ES	22 19		1.4						
	MSZ	P	11 21 04.5		-1.8	8.25	219				
		S	22 36		-2.3						
	CIZ	E	11 22 54			8.26	134				
		S	23 00		21.3*						
	MNW	P	11 21 20		1.7	9.21	215				
		S	22 58		-2.0						
	WPZ	S	11 23 06		1.4	9.42	208				

FELT MM V AT WELLINGTON AND MM IV AT MASTERTON AND NELSON

	H M S							72/ 492
OCT 13	01 02 49.4	38.35S	175.86E	171 KM	SE 1.3		AVG MAG	4.2
	+- 0.9	0.04	0.04	7				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	01 03 14	DW	0.7	0.50	329			
	S	32		0.3					
WTZ	IP	01 03 15.2	D	-0.8	0.96	68		3.9	3.4
	ES	36		-0.7					
TUA	EP	01 03 18		0.7	1.11	115			
	ES	38		-0.8					
TRZ	IP	01 03 21.6	D	1.5	1.41	148		4.3	4.6
	S	45		1.3					
GNZ	P	01 03 23.3	U	0.2	1.72	100		4.8	4.5
	S	47		-2.2					
ECZ	IP	01 03 28.9	D	0.2	2.22	74		5.1	
MNG	IP	01 03 29.9	U	0.4	2.28	187		4.8	3.8
	S	59.5		-0.8					
CAZ	P	01 03 33.7		0.8	2.56	174			
	S	04 09.5		3.1					
WEL	P	01 03 38		-0.8	3.05	196	3.9	4.2	4.2
	S	04 16		-0.9					
COB	P	01 03 45		-1.4	3.64	220		3.4	3.9
	S	04 29.5		-0.8					
MJZ	S	01 05 42.5		-5.2*	6.95	214			

	H M S							72/ 493
OCT 13	09 36 23.2	38.55S	176.59E	12 KM	SE 2.0		AVG MAG	3.8
	+- 0.4	0.03	0.03	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	PG	09 36 35		1.4	0.50	120			
WTZ	P*	09 36 35		-0.3	0.65	29		3.7	3.9
	PG	36		-0.5					
	S*	45.5		1.2					
	SG	48.5		3.2					
TRZ	P*	09 36 42.0	D	0.4	1.01	170		4.0	4.4
	PG	44.5		0.7					
	E	52							
	SG	37 04		6.5*					
GNZ	P*	09 36 42		-0.0	1.04	231		3.8	
KRP	P*	09 36 41.2	U	-0.9	1.04	307			
	IS*	55.5		-0.6					
GNZ	P*	09 36 41.8		-1.7	1.12	95		4.1	4.6
	E	49							
	S*	57.5		-1.1					
MNG	PN	09 36 56		-3.2	2.23	202		3.7	3.7
	P*	37 02		-0.5					
	S*	33		1.1					
GBZ	IPN	09 37 00.0	U	-2.8	2.50	339		3.8	
WEL	P*	09 37 16		-0.8	3.07	207	3.5	3.5	3.8
	SN	46		-0.3					
	S*	56		-1.0					
COB	PN	09 37 22		0.1	3.90	228		3.4	3.6
	SN	38 12		5.5					
CIZ	SN	09 39 25		-6.7*	7.46	138			

	H M S							72/ 494
OCT 14	12 06 33.8	33.20S	178.21W	12 KM	SE 2.3		AVG MAG	5.3
	+- 1.7	0.08	0.10	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	12 07 52		1.9	5.21	210		5.4	4.9
	P*	08 06		2.0					
	EPG	20		0.9					
	SN	58.1		9.5*					
GBZ	EP*	12 08 14		-3.7	6.01	238			
WTZ	PN	12 08 01		-2.0	6.17	218			
	SN	09 14		2.3					
GNZ	PN	12 08 04		0.2	6.23	208			

		SN		09 14		0.9			
	TUA	PN	12	08 10		-0.7	6.74	213	
		SN		09 27		1.8			
	KRP	PN	12	08 14		0.6	6.94	225	
		P*		33		-0.7			
	TRZ	PN	12	08 20		-0.8	7.50	211	
		EPG		09 00		-5.4			
		SN		45		1.7			
	CRZ	PN	12	08 25		1.8	7.68	258	
		EP*		46		-0.4			
	CNZ	PN	12	08 27		1.9	7.83	218	
		P*		49		0.1			
		SN		09 55		3.9			
	MNG	PN	12	08 38		-2.1	8.96	212	
		EPG		09 34		-1.0			
		SN		10 15		-3.0			
	WEL	SN	12	10 35		-3.2	9.82	213	5.7
		E		11 00					
	COB	SN	12	11 00		1.7	10.68	220	
	CIZ	EPN	12	09 07		2.6	10.81	174	
		SN		11 00		-1.4			
	MJZ	E	12	12 08			13.93	216	
		S		13		-0.2			

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H M S							
OCT 14 12 12 21.4	33.34S	177.99W	12 KM	SE	2.5	AVG MAG	5.1
+- 4.4	0.22	0.16	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	PN	12 13 51		0.3	6.18	220			
	SN	15 01		1.6					
GNZ	PN	12 13 51		0.0	6.20	210			
	SN	15 02.5		2.6					
TRZ	SN	12 15 33		2.7	7.48	213			
MNG	SN	12 16 04		-1.2	8.95	214			
WEL	SN	12 16 21		-4.4	9.80	214	5.1		
CIZ	SN	12 16 45		-0.3	10.66	174			
	E	54							
COB	SN	12 16 45		-1.3	10.70	221			

72/ 496

H M S							
OCT 14 12 38 02.8	33.33S	178.04W	12 KM	SE	2.3	AVG MAG	4.7
+- 2.2	0.12	0.13	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	12 39 20		1.5	5.17	212		4.7	4.4
	S*	40 38		-1.7					
WTZ	PN	12 39 30		-1.8	6.16	220			
	EPG	40 08		0.7					
	SN	42		1.6					
GNZ	EPN	12 39 33		0.8	6.19	210			
	SN	40 42		1.0					
KRP	EPN	12 39 42		-0.5	6.95	227			
TRZ	PN	12 39 48		-1.3	7.46	212			
	SN	41 15		3.6					
CNZ	SN	12 41 24		4.2	7.82	220			
MNG	PN	12 40 09		0.3	8.93	214			
	SN	41 44.5		-1.7					
WEL	SN	12 42 03		-3.4	9.79	214	5.1		
CIZ	SN	12 42 27		-0.0	10.67	174			
COB	SN	12 42 24		-3.2	10.67	221			

72/ 497

H M S							
OCT 14 23 52 01.9	33.18S	177.93W	12 KM	SE	2.1	AVG MAG	5.8
+- 1.3	0.06	0.10	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	23 53 22.5		2.5	5.34	212		5.8	5.6
	EP*	37		2.6					
	EPG	52		2.0					
	E	54 32							

		ESG		55 02		0.0			
	GBZ	PN	23	53 33.3		1.8	6.22	239	
		EP*		54		4.6*			
	WTZ	PN	23	53 32		-1.3	6.33	219	
		SN		54 46		2.4			
	GNZ	PN	23	53 35		1.3	6.36	210	
		EP*		50		-1.9			
		EPG		54 10		-0.6			
		SN		46		1.7			
		ESG		55 39		2.6			
	ONE	EPN	23	53 43		2.5	6.87	246	
	KRP	PN	23	53 45		1.1	7.12	227	
		SN		55 03		0.6			
	TRZ	PN	23	53 50		-0.7	7.64	212	
		SN		55 15.5		0.8			
	CRZ	PN	23	53 56.5		2.1	7.92	258	
		E		54 09.5					
		EP*		17.5		-1.0			
	CNZ	EPN	23	53 56		0.6	7.99	219	
	MNG	PN	23	54 07.5		-2.6	9.10	214	
		SN		55 46.5		-3.0			
	WEL	EPN	23	54 20		-1.4	9.96	214	6.0
		EP*		50		-3.5			
		SN		56 06		-3.7			
		ES*		57 03		0.0			
		E		30					
	CIZ	ESN	23	56 31		1.5	10.81	175	
	COB	EPN	23	54 30		-3.0	10.85	221	
		SN		56 27		-3.3			
	OMZ	SN	23	57 58		-0.3	14.68	213	

	H M S							72/ 498
OCT 15	01 00 00.1	33.16S	178.02W	12 KM	SE	2.3	AVG MAG	6.0
	+- 1.6	0.09	0.10	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	01 01 19		1.0	5.32	211		5.9	
	P*	37.5		5.2					
GBZ	PN	01 01 30		0.8	6.16	238			
WTZ	PN	01 01 30		-1.1	6.30	219			
	SN	02 43.5		2.4					
GNZ	PN	01 01 30.5		-1.2	6.35	209			
	SN	02 43		0.8					
KRP	PN	01 01 43		1.4	7.09	226			
	ESN	02 59		-0.7					
TRZ	PN	01 01 47.5		-1.2	7.62	212			
	SN	03 15		2.6					
CRZ	PN	01 01 53		1.3	7.85	258			
CNZ	PN	01 01 54.5		1.3	7.96	219			
MNG	PN	01 02 05.5		-2.5	9.08	213			
	P*	30		-6.7*					
	SN	03 46.5		-0.7					
	S*	04 37		2.2					
WEL	P*	01 02 48		-3.4	9.94	213	6.1		
	SN	04 04		-3.4					
	EL	05 00							
COB	SN	01 04 26		-1.8	10.82	220			
CIZ	EPN	01 02 31		-0.1	10.84	174			
	SN	04 29		0.6					
KAI					12.53	219	5.9		
MJZ	ESN	01 05 39		-3.4	14.06	216			

	H M S							72/ 499
OCT 15	03 24 38.5	33.42S	177.88W	12 KM	SE	2.7	AVG MAG	5.4
	+- 2.3	0.12	0.14	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	03 25 55		0.8	5.16	213		5.3	
	EPG	26 21		-1.9					
GBZ	PN	03 26 09		1.9	6.13	241			

	WTZ	PN	03	26	05	-2.7	6.17	221		
		EP*			27	1.7				
		SN		27	19	2.5				
	GNZ	PN	03	26	08	0.2	6.18	211		
	KRP	PN	03	26	17	-1.7	6.99	228		
		EP*			40	0.8				
		SN		27	38	2.2				
	TRZ	PN	03	26	27	2.1	7.46	213		
		ESN		27	51	4.0				
	CNZ	EPN	03	26	32	2.1	7.83	221		
		SN		27	59	3.1				
	CRZ	PN	03	26	29	-1.9	7.91	260		
	MNG	EPN	03	26	43	-1.4	8.93	215		
		E		27	30					
		SN		28	17.5	-4.4				
	WEL	SN	03	28	37.5	-4.6	9.79	215	5.6	
		L		30	00					
	CIZ	SN	03	29	01	0.6	10.57	175		
	COB	SN	03	29	00	-3.3	10.69	222		

	H	M	S									72/ 500
OCT 15	04	10	24.8	33.05S	178.38W	12 KM	SE	2.1	AVG MAG			4.7
		+-	2.4	0.13	0.13	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		PN	04	11	45		3.1	5.27	208		4.7	
			P*			56		-0.1					
	WTZ		PN	04	11	54		-0.5	6.20	216			
			SN		13	05		1.5					
	GNZ		PN	04	11	56		0.3	6.30	207			
			SN		13	07		1.3					
	KRP		PN	04	12	06		1.5	6.95	224			
			P*			23		-1.8					
	TRZ		SN	04	13	39		3.4	7.56	209			
	CNZ		EP*	04	12	38		-2.4	7.86	217			
	MNG		EPN	04	12	31		-0.8	9.01	211			
			SN		14	08		-2.2					
	COB		ESN	04	14	48		-2.0	10.71	219			
	CIZ		SN	04	14	55		-1.2	10.98	173			

	H	M	S									72/ 501
OCT 15	04	26	29.7	37.40S	176.59E	252 KM	SE	1.5	AVG MAG			4.0
		+-	1.6	0.05	0.07	12						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		P	04	27	02.5		-0.9	0.66	151		4.1	3.5
			S			28		-1.7					
	GBZ		P	04	27	07		-1.4	1.48	323			
			S			39.5		1.4					
	ECZ		S	04	27	41		1.5	1.58	101			4.0
	GNZ		IP	04	27	10.1	U	0.3	1.68	138		5.1	4.7
			S			39		-1.8					
	CNZ		EP	04	27	13		0.7	1.97	204		3.6	
	TRZ		P	04	27	14.3	U	0.9	2.15	175		4.2	4.1
			S			51		2.7					
	MNG		IP	04	27	25.6	U	-0.6	3.32	195		3.8	3.7
			S		28	09		-1.2					
	WEL		S	04	28	27		0.3	4.12	199	4.1		3.8
	COB		S	04	28	40		0.0	4.74	218			3.6

	H	M	S									72/ 502
OCT 15	05	21	19.5	33.37S	177.74W	12 KM	SE	2.8	AVG MAG			5.5
		+-	2.7	0.13	0.15	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		PN	05	22	39		2.4	5.27	214		5.4	5.2
			EPG		23	09		3.0					
			SN			46		10.2*					
	GNZ		PN	05	22	49		-1.2	6.28	212			
			SN		24	02		2.0					
	WTZ		PN	05	22	49		-1.3	6.29	221			

		SN		24 00	-0.2			
	KRP	PN	05	23 01	-0.3	7.11	228	
		EP*		27	4.7			
		SN		24 22	2.3			
	TRZ	SN	05	24 30	-0.5	7.57	214	
	CNZ	E	05	23 51		7.95	221	
		SN		24 44	4.4			
	CRZ	EPN	05	23 12	-1.5	8.03	260	
		E		31				
	MNG	EPN	05	23 25	-1.8	9.04	215	
		SN		25 03.5	-2.0			
	WEL	SN	05	25 21	-4.7	9.90	215	5.8
		EL		27 00				
	CIZ	SN	05	25 43	0.7	10.61	175	
		E		51				
	COB	SN	05	25 44	-3.0	10.81	222	
	MJZ	SN	05	26 58	-3.1	14.03	217	

H M S								72/ 503
OCT 15 12 00 06.1	33.01S	177.75W	12 KM	SE 2.3		AVG MAG		5.2
+- 2.0	0.09	0.12	R					
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ PN	12 01 28		0.9	5.56	212		5.2	4.8
SN	02 34		4.5					
WTZ PN	12 01 39.5		-1.0	6.56	219			
ESN	02 54		0.9					
GNZ PN	12 01 41		0.1	6.58	210			
SN	02 54.5		0.7					
ONE EPN	12 01 48.5		1.1	7.07	245			
EP*	02 08		-0.3					
KRP PN	12 01 52		1.0	7.35	226			
SN	03 12		0.1					
TRZ PN	12 01 57		-0.9	7.86	212			
ESN	03 26		1.8					
CRZ PN	12 02 02		1.1	8.09	257			
CNZ ESN	12 03 36		3.4	8.21	219			
MNG PN	12 02 15		-2.2	9.33	214			
SN	03 58		-1.0					
WEL SN	12 04 15		-4.1	10.19	214	5.7		
EL	06 00							
CIZ SN	12 04 38		0.6	10.97	175			
COB SN	12 04 37		-2.7	11.07	221			
MJZ SN	12 05 50		-4.1	14.31	217			

H M S								72/ 504
OCT 15 16 28 32.8	33.16S	178.23W	12 KM	SE 2.4		AVG MAG		4.9
+- 2.1	0.09	0.14	R					
	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ PN	16 29 51		1.6	5.23	209		4.8	4.7
P*	30 04		0.6					
SN	53		4.9					
S*	31 06		-5.6*					
GBZ EPN	16 30 00		0.3	6.00	238			
WTZ PN	16 30 00.5		-1.7	6.19	218			
SN	31 14		3.0					
GNZ PN	16 30 01.5		-1.6	6.26	208			
EPG	35		-4.3					
SN	31 15		2.3					
ONE PN	16 30 10		1.7	6.64	245			
KRP PN	16 30 11.5		-1.0	6.95	225			
TRZ PN	16 30 18.5		-1.6	7.52	211			
SN	31 42.5		-0.3					
CRZ PN	16 30 23		1.1	7.66	258			
MNG ESN	16 32 18		0.5	8.98	212			
WEL SN	16 32 35		-2.7	9.84	212	5.3		
EL	34 00							
COB SN	16 32 56		-1.7	10.69	220			
CIZ SN	16 33 02.5		1.0	10.86	174			

	MJZ	SN	16 34 09			-3.6	13.94	216			
	MSZ	PN	16 32 07			1.5	15.73	219			
	H M S										72/ 505
OCT 15	16 50 48.3		33.16S	177.81W		12 KM	SE	2.0	AVG MAG		5.1
	+- 1.9		0.09	0.12		R					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	PN	16 52 10.5			3.2	5.41	212		5.0	4.7
		PG	37.5			-0.3					
	WTZ	PN	16 52 20.5			-0.3	6.41	220			
		P*	44.5			5.3*					
		SN	53 33			1.1					
	GNZ	PN	16 52 22			1.0	6.43	211			
		SN	53 35			2.6					
	KRP	PN	16 52 31.5			0.1	7.21	227			
		P*	51			-1.8					
	TRZ	PN	16 52 38			-0.1	7.71	213			
		SN	54 06.5			3.7					
	CRZ	EPN	16 52 42			-0.2	8.02	258			
	MNG	EPN	16 52 56			-1.5	9.18	214			
		SN	54 36.5			-1.1					
	WEL	SN	16 54 54			-3.8	10.04	214	5.4		
		EL	56 00								
	CIZ	ESN	16 55 15			-1.1	10.82	175			
		E	23								
	COB	SN	16 55 18			-0.6	10.93	221			
	MJZ	SN	16 56 32			-1.0	14.16	217			
	H M S										72/ 506
OCT 16	02 32 17.4		39.25S	174.64E		33 KM	SE	1.8	AVG MAG		4.0
	+- 0.7		0.04	0.09		R					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP	02 32 28.0		U	-2.3	0.70	87			
	KRP	IP	02 32 40.4		U	-0.7	1.49	28			
		P*	44.5			0.2					
		IS	59.5			0.6					
	MNG	IP	02 32 40.1		U	-1.3	1.52	155		4.4	4.0
		S	33 00			0.5					
	WEL	P	02 32 48.0			-0.6	2.04	177	3.7	4.2	4.3
		S	33 15.5			3.3					
	GBZ	EPN	02 33 03			-0.1	3.09	13			
		EP*	13.5			1.9					
	MJZ	S	02 34 39			-1.5	5.68	212			3.2
	H M S										72/ 507
OCT 16	14 10 59.5		33.05S	178.02W		12 KM	SE	3.1	AVG MAG		5.4
	+- 2.0		0.10	0.15		R					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	PN	14 12 22			3.5	5.42	210		5.4	5.2
		EP*	33			-0.3					
	GBZ	PN	14 12 32			2.7	6.22	238			
	WTZ	PN	14 12 31.5			-0.1	6.39	218			
		SN	13 41			-1.5					
		ES*	14 12			-1.1					
	GNZ	PN	14 12 32			-0.3	6.44	209			
		SN	13 45.5			1.7					
		SG	14 39			2.4					
		SG	39			2.4					
	ONE	PN	14 12 41.5			3.6	6.86	245			
	KRP	PN	14 12 43.5			1.5	7.16	225			
	TRZ	PN	14 12 49			-0.2	7.71	211			
		SN	14 18			4.0					
	CRZ	PN	14 12 53			1.6	7.87	257			
	MNG	PN	14 13 06			-2.6	9.17	213			
		EP*	33			-4.6					
		SN	14 45			-3.7					
		E	51								
		ES*	15 42			5.2					

	WEL	SN	14 15 04.5		-4.4	10.03	213	5.6		
		EL	16 00							
	COB	SN	14 15 26		-3.1	10.90	220			
	CIZ	SN	14 15 31		0.8	10.95	174			
		E	35							
	MJZ	SN	14 16 40		-3.8	14.14	216			
	MSZ	SN	14 17 20		-3.8	15.93	219			

	H M S								72/ 508
OCT 16	16 10 53.6	33.40S	178.31W	12 KM	SE	2.4	AVG MAG		4.8
	+- 2.0	0.09	0.13	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ PN	16 12 09		2.0	4.99	210		5.1	5.0
	EP*	19		-1.2					
	GBZ PN	16 12 19		0.9	5.83	239		3.8	
	WTZ PN	16 12 18		-2.0	5.96	219		4.7	4.5
	SN	13 28		1.5					
	GNZ PN	16 12 20.5		-0.2	6.02	209			
	SN	13 31		3.2					
	ONE EPN	16 12 29		1.9	6.49	247			
	KRP PN	16 12 31		0.5	6.74	226			
	E	43							
	TRZ PN	16 12 36		-1.7	7.29	211			
	SN	14 02		4.0					
	CRZ PN	16 12 42		0.7	7.56	260			
	MNG PN	16 12 53.5		-3.6	8.75	213			
	SN	14 32		-0.8					
	WEL SN	16 14 50		-3.0	9.61	213	5.5		
	EL	16 00							
	COB SN	16 15 13		-0.3	10.48	220			
	CIZ SN	16 15 18		1.0	10.63	173			
	MJZ SN	16 16 24		-4.2	13.72	216			
	MSZ PN	16 14 25		1.4	15.51	219			

	H M S								72/ 509
OCT 17	05 59 56.6	40.16S	173.52E	233 KM	SE	1.0	AVG MAG		4.1
	+- 0.9	0.06	0.06	7					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB IP	06 00 32.2	U	1.3	1.11	213		4.3	4.4
	S	58		0.5					
	WEL P	06 00 34.2	U	0.6	1.47	140	3.8	3.8	4.2
	S	01 02		-0.1					
	MNG IP	06 00 34.8	U	0.5	1.56	108		4.2	4.1
	S	01 03		-0.4					
	CNZ P	06 00 36.5		-0.1	1.83	59		3.7	4.1
	S	01 05.5		-2.0					
	I	09.5							
	TRZ S	06 01 22.5		1.1	2.61	78			4.2
	KAI S	06 01 26		-0.1	2.85	213	3.9		
	GNZ S	06 01 41		-4.4*	3.80	68			4.2
	MJZ EP	06 01 06		0.3	4.45	210			
	S	59		-0.5					
	MSZ S	06 02 36		-1.0	6.13	221			

	H M S								72/ 510
OCT 17	06 14 41.2	33.35S	177.86W	12 KM	SE	1.9	AVG MAG		5.3
	+- 1.7	0.08	0.10	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ PN	06 16 00		2.2	5.23	213		5.3	5.0
	PG	24.5		-2.5					
	SN	17 02.5		5.0*					
	WTZ PN	06 16 11		-0.3	6.24	221			
	SN	17 24		3.3					
	GNZ PN	06 16 12		0.5	6.25	211			
	P▲	24		-5.2▲					
	SN	17 23		2.1					
	ONE EPN	06 16 22		2.4	6.86	247			
	EP*	38		-1.6					

	KRP	PN	06 16 22	-0.2	7.05	228			
		ESN	17 42	2.0					
	TRZ	PN	06 16 29	-0.5	7.53	213			
		EP*	50	-1.1					
		SN	17 52	0.7					
		I	59						
	CRZ	PN	06 16 33	-1.0	7.94	260			
	MNG	PN	06 16 46.5	-1.4	9.00	214			
		SN	18 26	-0.2					
	WEL	EP*	06 17 33	2.0	9.85	214	5.7		
		SN	18 43	-3.4					
		EL	20 00						
	CIZ	SN	06 19 05	0.3	10.64	175			
	COB	SN	06 19 06.5	-1.0	10.76	221			
	MJZ	SN	06 20 19.5	-2.3	13.98	217			

	H M S							72/ 511
OCT 17	07 34 22.2	33.19S	178.01W	12 KM	SE	3.1	AVG MAG	4.9
	+- 2.6	0.13	0.17	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	07 35 42		2.3	5.30	211		4.8	4.5
	SN	36 44		4.7					
WTZ	PN	07 35 52		-0.9	6.29	219			
	SN	37 05		2.2					
GNZ	PN	07 35 54		0.5	6.32	209			
	SN	37 07		3.3					
KRP	EPG	07 36 45		-0.2	7.07	226			
TRZ	PN	07 36 09		-1.5	7.60	212			
	P*	32		-1.3					
	SN	37 33		-1.0					
	S*	38 14		1.8					
CRZ	PN	07 36 19		5.2	7.85	258			
MNG	PN	07 36 27		-2.8	9.06	213			
	P*	53		-5.4					
	SN	38 07		-1.8					
WEL	SN	07 38 26.5		-2.5	9.92	213	5.3		
	EL	40 00							
COB	SN	07 38 48.5		-1.0	10.80	220			
CIZ	SN	07 38 52		2.3	10.81	174			
MJZ	SN	07 40 00		-4.1	14.04	216			

	H M S							72/ 512
OCT 17	16 21 46.4	33.52S	178.23W	12 KM	SE	2.1	AVG MAG	4.7
	+- 2.0	0.10	0.12	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	18 23 01		2.2	4.92	211		4.8	4.7
WTZ	PN	18 23 11.5		-0.5	5.91	220		4.3	4.0
	SN	24 20		2.1					
GNZ	PN	18 23 12		-0.4	5.94	209		4.8	4.8
	SN	24 23		4.2					
KRP	PN	18 23 23.5		0.8	6.70	227			
TRZ	EPN	18 23 29		-0.6	7.21	212			
	SN	24 55.5		5.5*					
CRZ	PN	18 23 35		0.4	7.59	261			
MNG	PN	18 23 47		-1.9	8.68	213			
	SN	25 21		-2.9					
WEL	SN	18 25 42		-2.2	9.54	214	5.2		
	EL	27 00							
COB	SN	18 26 05		0.1	10.42	221			
CIZ	SN	18 26 07		0.1	10.51	173			
MJZ	SN	18 27 18		-1.5	13.66	217			

	H M S							72/ 513
OCT 18	00 58 22.1	33.25S	178.09W	12 KM	SE	2.9	AVG MAG	5.2
	+- 2.7	0.13	0.15	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EPN	00 59 39		0.6	5.21	211		5.3	4.9
	P*	54		1.6					

	WTZ	PN	00	59	51.5	-0.1	6.19	219		
		SN	01	01	02	1.5				
	GNZ	EPN	00	59	54	1.8	6.23	209		
		P*	01	00	07	-2.9				
		SN		01	05	3.5				
	KRP	PN	01	00	01	-1.1	6.98	226		
		EP*			26	3.4				
		SN		01	24	4.9				
	TRZ	ESN	01	01	32.5	0.8	7.51	212		
	CRZ	PN	01	00	13	0.3	7.77	259		
	MNG	PN	01	00	25	-3.5	8.97	213		
		SN		02	04	-2.6				
	WEL	SN	01	02	23	-3.8	9.83	213	5.4	
		EL		04	00					
	COB	SN	01	02	45	-2.2	10.71	220		
	CIZ	SN	01	02	50	1.7	10.75	174		
	MJZ	SN	01	03	58	-3.9	13.94	216		

	H	M	S									72/ 514
OCT 18	02	29	51.3	33.41S	178.11W	12 KM	SE	2.4	AVG MAG			5.3
		+-	2.2	0.11	0.13	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		EPN	02	31	07		1.3	5.07	212		5.2	5.0
			P*			22		2.9					
			SN		32	16		13.2*					
	WTZ		PN	02	31	19		0.0	6.06	220			
			SN		32	28.5		2.0					
	GNZ		PN	02	31	21		1.6	6.09	210			
			P*			34		-2.6					
			SN		32	31		3.8					
	KRP		PN	02	31	31		1.3	6.86	227			
			P*			47		-2.8					
			SN		32	50		4.5					
	TRZ		EPN	02	31	36.5		0.0	7.36	212			
			ESN		32	57		-0.5					
			E		33	03.5							
	CRZ		PN	02	31	41		-0.3	7.73	260			
	MNG		PN	02	31	54		-1.9	8.83	214			
			SN		33	31		-1.4					
	WEL		SN	02	33	50		-2.6	9.69	214	5.6		
			EL		35	00							
	COB		SN	02	34	11		-2.4	10.58	221			
	CIZ		SN	02	34	14		0.2	10.59	174			
	MJZ		SN	02	35	25		-3.0	13.81	217			

	H	M	S									72/ 515
OCT 16	06	14	43.6	38.68S	175.67E	176 KM	SE	1.3	AVG MAG			4.3
		+-	0.7	0.04	0.04	6						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		IP	06	15	09.9	U	0.5	0.76	352			
			S			27.5		-1.8					
	TNZ		E	06	15	14			1.13	243			3.2
			S			36		1.9					
	TUA		P	06	15	13.3		0.9	1.16	97			
	WTZ		P	06	15	12.7		-0.4	1.24	57		3.3	3.8
			E			29							
			S			32		-3.8*					
	TRZ		P	06	15	14.8	U	1.7	1.25	135		4.6	4.3
			S			37.5		1.5					
	GNZ		P	06	15	19.9		0.9	1.84	90		4.8	4.7
			S			44		-2.2					
	MNG		IP	06	15	21.0	U	0.9	1.95	184		4.4	4.9
			S			46.5		-1.7					
	ECZ		P	06	15	27		0.9	2.47	67		4.5	4.4
			S			58		-0.8					
	WEL		P	06	15	29.5		0.5	2.70	195	4.5	3.8	4.8
			E			33							
			S		16	03		-1.0					

	COB	P	06	15	35.9	U	-0.6	3.30	222	3.9	4.4
		S		16	17		-0.2				
	MJZ	P	06	16	19		-0.2	6.60	215		
		S		17	29		-4.6*				
	MSZ	S	06	18	14		-0.9	8.34	222		

	H	M	S								72/ 516
OCT 16	23	06	32.0	33.76S		178.28W		12 KM	SE	2.3	AVG MAG 5.0
	+-		2.0	0.10		0.12		R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	23	07	45		3.6	4.69	212		5.1	5.0
	P*			54		0.6					
WTZ	PN	23	07	54.5		-0.3	5.70	221		4.5	4.4
	SN		08	59		0.5					
GNZ	PN	23	07	55		0.0	5.71	210		5.0	5.1
	EP*		08	12		1.2					
	SN		09	02		3.1					
TUA	PN	23	08	01		-1.1	6.24	215			
	ESN		09	13		1.6					
KRP	PN	23	08	05		-0.8	6.51	229			
	P*			16		-8.5*					
TRZ	PN	23	08	12		-0.2	6.99	213			
	ESN		09	33		3.7					
CRZ	EPN	23	08	20		0.7	7.53	262			
MNG	PN	23	08	29		-2.6	8.46	214			
	SN		10	03		-1.2					
WEL	SN	23	10	21		-3.5	9.31	214	5.7		
COB	ESN	23	10	45		-0.6	10.22	222			
CIZ	SN	23	10	46		-0.8	10.26	173			
MJZ	SN	23	11	56		-4.2	13.44	217			

	H	M	S								72/ 517
OCT 19	14	58	40.5	37.32S		177.18E		202 KM	SE	1.8	AVG MAG 4.1
	+-		1.4	0.07		0.07		10			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP	14	59	08.1	U	-0.7	0.68	193		4.1	3.8
	S			27		-3.6					
ECZ	P	14	59	11.2	U	-0.5	1.15	109		4.6	4.1
	ES			36		0.2					
KRP	P	14	59	15.7		1.6	1.44	245			
	ES			42		1.9					
GNZ	IP	14	59	15.2	U	0.8	1.48	154		5.1	4.6
	S			39		-1.7					
GBZ	IP	14	59	16.5	D	-0.5	1.75	308		4.3	
TRZ	P	14	59	24.3		2.2	2.25	187		3.6	4.3
	S			57		2.8					
MNG	P	14	59	37.9	D	0.5	3.55	201		3.5	3.7
	S	15	00	22		0.6					
WEL	S	15	00	40		0.1	4.38	205	4.1		3.8
COB	ES	15	00	56		-0.4	5.11	221			3.3
MJZ	ES	15	02	12		-0.8	8.39	215			
MSZ	ES	15	02	51		-2.5	10.14	221			

	H	M	S								72/ 518
OCT 20	02	13	18.3	32.85S		179.31W		33 KM	SE	2.1	AVG MAG 4.9
	+-		2.5	0.21		0.32		R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	02	14	33.0		1.1	5.14	199		5.1	4.8
	E		15	36							
WTZ	EP	02	14	42		-0.8	5.95	210		4.7	4.3
	S		15	51		3.0					
GNZ	EP	02	14	46		0.2	6.17	200			
	S		15	55		1.6					
KRP	EP	02	14	53		1.6	6.58	218			
MNG	EP	02	15	19		-2.1	8.81	207			
	S		16	54		-2.3					
WEL	ES	02	17	14		-2.5	9.66	208	5.5		
COB	ES	02	17	34		0.1	10.39	215			

	H M S									72/ 519
OCT 20	03 33 03.8	41.23S	174.73E	67 KM	SE 1.1		AVG MAG	3.9		
	+- 0.9	0.05	0.05	8						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL P	03 33 14.8	D	1.0	0.06	153	4.1			
	S	21.2		0.1						
	MNG P	03 33 20.1		-0.5	0.84	43		3.9	3.9	
	E	23.1								
	S	32.0		-1.1						
	KKY ES	03 33 46.5		0.0	1.42	213				
	COB P	03 33 29.8		0.2	1.52	275		3.8	4.2	
	S	48.2		-0.6						
	TNZ E	03 33 37.5			2.06	352		4.0		
	CNZ P	03 33 37.1		-0.7	2.13	17		3.7		
	ES	34 04.5		1.5						
	FELT PARAPARAUMU (65) MM IV									

	H M S									72/ 520
OCT 22	12 03 49.5	36.84S	177.05E	293 KM	SE 1.4		AVG MAG	4.2		
	+- 1.1	0.06	0.07	8						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ P	12 04 29.8		-0.3	1.14	183		3.9	3.8	
	S	05 00.5		-1.2						
	GBZ P	12 04 30.3		-1.5	1.41	296		4.1		
	ECZ EP	12 04 32		-0.1	1.46	126		4.4	4.7	
	E	59								
	ES	05 06		1.0						
	KRP EP	12 04 34		0.9	1.62	228		3.5		
	ES	05 09		2.1						
	GNZ P	12 04 36.7		1.2	1.96	157		4.3	4.7	
	S	05 10.0		-1.4						
	CNZ P	12 04 42.9		1.2	2.64	206		4.1	3.5	
	ES	05 21		-1.3						
	MNG P	12 04 55.0		-0.5	3.97	198		4.7	4.3	
	S	05 46		-1.0						
	WEL S	12 06 06		2.4	4.78	201	4.7		4.5	
	COB EP	12 05 12		-0.2	5.42	217		4.1	4.1	
	S	06 16		-1.0						
	GPZ ES	12 07 05		-0.4	7.63	205				

	H M S									72/ 521
OCT 23	03 31 11.5	37.72S	177.52E	130 KM	SE 1.5		AVG MAG	4.5		
	+- 1.0	0.05	0.05	8						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ IP	03 31 30.7		-0.0	0.50	238				
	S	44.2		-1.3						
	ECZ P	03 31 32.0		-1.0	0.81	88		5.1	4.6	
	S	47.8		-1.6						
	GNZ P	03 31 36.0	D	1.4	1.00	157		5.0		
	ES	53.5		1.2						
	TUA P	03 31 38		2.1	1.12	195				
	KRP P	03 31 42.1	U	1.1	1.59	262		4.0		
	S	32 04.2		0.8						
	TRZ P	03 31 46.8		2.1	1.91	197		4.6		
	E	32 15								
	CNZ P	03 31 50.0		2.3	2.14	226		4.0	4.0	
	E	32 23								
	GBZ EP	03 31 48		-0.7	2.22	312				
	E	54								
	MNG P	03 32 02.2		-0.7	3.30	208		4.1	4.5	
	E	33								
	S	40		-2.1						
	WEL P	03 32 12.5		-1.6	4.15	210	4.9	4.3	4.6	
	S	33 01.7		-0.7						
	COB EP	03 32 25		-0.7	5.01	226			4.5	
	S	33 22.5		-0.4						
	GPZ E	03 34 05			7.02	210	4.8			

	MUZ	S	03 34 36			-5.0*	8.23	218				
	H M S											72/ 522
OCT 24	04 29 52.4		33.35S	178.23W		33 KM	SE	1.9	AVG MAG			4.9
	+- 1.7		0.09	0.10		R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ	EP	04 31 13			1.0	5.07	210		4.7	4.6	
		E	32 18									
	WTZ	EP	04 31 24			-1.2	6.04	219				
		S	32 33			1.6						
	GNZ	EP	04 31 26			0.2	6.09	209				
		S	32 34			1.5						
	KRP	EP	04 31 34			-1.7	6.83	226				
	CRZ	EP	04 31 46			-0.6	7.64	259				
	CNZ	EP	04 31 50			2.6	7.70	219				
		ES	33 13			2.0						
	MNG	EP	04 31 56			-6.5*	8.83	213				
		ES	33 34			-3.9						
	WEL	ES	04 33 57			-1.3	9.68	213	5.6			
	CIZ	EP	04 32 27			0.2	10.67	174				
		ES	34 21			-0.4						
	H M S											72/ 523
OCT 25	09 10 27.0		37.94S	176.43E		12 KM	SE	0.4	AVG MAG			3.3
	+- 0.2		0.01	0.01		R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ	IPG	09 10 35.7		U	-0.5	0.44	96				
	KRP	PG	09 10 41.4			-0.0	0.71	271		3.3	3.3	
		SG	51.1			0.0						
	GNZ	PG	09 10 56.8			0.6	1.44	120		3.9		
	GBZ	EPG	09 11 05			-0.0	1.88	336		2.9	3.1	
		ESG	30.5			0.1						
	MNG	E	09 11 13				2.78	195		3.0		
		EPG	23			-0.2						
	H M S											72/ 524
OCT 25	11 13		37.8S	176.8E						MAG		3.5
	THIS EARTHQUAKE BEGINS A SEQUENCE THAT INCLUDED SHOCKS AT 11H 18M, 11H 21M, 11H 28M (MAG 4.2, LISTED BELOW), 11H 31M, 11H 34M, 11H 35M, 11H 42M (MAG 3.6), 11H 48M, 15H 14M AND 15H 59M. ON THE FOLLOWING DAY, SHOCKS WITH A SLIGHTLY DIFFERENT EPICENTRE OCCURRED AT 25D 14H 20M (MAG 3.2), 17H 49M (MAG 3.4) AND 18H 22M (MAG 3.7) THIS LAST SHOCK WAS FELT AT WHAKATANE AND IS LISTED BELOW											
	H M S											72/ 525
OCT 25	11 28 11.1		37.82S	176.81E		12 KM	SE	1.2	AVG MAG			4.2
	+- 0.3		0.02	0.02		R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ	PG	11 28 15.5			-0.4	0.21	138				
	KRP	PG	11 28 30.3			-1.4	1.01	264		3.6		
		ESG	45			-0.4						
	TUA	PG	11 28 30.5			-1.3	1.02	165				
	GNZ	P*	11 28 34.0			0.3	1.26	131		5.1		
		IPG	35.2			-1.5						
		E	56									
	ECZ	P*	11 28 36.5			0.6	1.38	85		5.1		
	CNZ	EPG	11 28 46.3			0.9	1.69	215		3.6		
		I	51.2									
	TRZ	P*	11 28 42.3			0.6	1.73	180		4.4		
		EPG	46.6			0.5						
	GBZ	EPN	11 28 44.3			1.3	1.92	326		3.9	4.1	
		SN	29 07.3			1.3						
	ONE	EP*	11 28 59			-1.7	2.83	315				
		EPG	29 08			-0.5						
	MNG	EP*	11 29 03			-0.1	2.97	200		3.9		
		EPG	13			1.7						

	H	M	S									72/ 526
OCT 26	18	22	28.5	37.90S	176.73E	12 KM	SE 0.3		AVG MAG			3.7
		+-	0.1	0.01	0.01	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	EPG	18	22	48.3		-0.2	0.98	268		3.3	
	ESG		23	02		0.1					
GNZ	PG	18	22	53.4		0.0	1.23	128		4.4	4.0
	E			56							
	ESG		23	14		4.0*					
ECZ	PG	18	22	57.0		-0.2	1.41	82		4.0	
CNZ	EPG	18	23	01		-0.3	1.62	216		3.2	
TRZ	EPG	18	23	02.2		0.3	1.65	179		3.9	
GBZ	EPG	18	23	09.0		0.5	1.98	328		3.5	3.3
	E			12.2							
	ESG			35		-0.2					
MNG	E	18	23	25.0			2.89	200		3.5	
	IPG			27.0		-0.0					

FELT WHAKATANE (27) MM IV

	H	M	S									72/ 527
OCT 27	05	00	16.3	45.34S	167.81E	12 KM	SE 1.2		AVG MAG			3.9
		+-	0.6	0.03	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P*	05	00	27.3		2.1	0.46	197			
	E			30							
	E			37							
MSZ	P*	05	00	28.0		-0.9	0.68	7		3.8	3.8
	ES*			38		-0.3					
ROX	P*	05	00	34.9		-0.9	1.08	98		4.0	4.2
	E			46.5							
	S*			49.5		-0.8					
WPZ	PN	05	00	42.0		-0.7	1.51	151		3.9	4.3
	SN		01	01.0		-1.2					
OHZ	PN	05	00	51.8		-0.3	2.21	84		4.1	4.2
	E		01	23							
	ES*			26		1.5					
MJZ	EPN	05	00	53.0		-0.7	2.33	55		3.4	3.8
	IP*			58.8		1.5					
	S*		01	28.5		0.5					
GPZ	E	05	02	17			3.83	66	4.0		

	H	M	S									72/ 528
OCT 28	22	55	53.9	43.35S	171.11E	12 KM	SE 1.7		AVG MAG			4.0
		+-	0.5	0.04	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MJZ	P*	22	56	07.4		-1.0	0.79	216		3.8	
	S*			19.3		0.3					
GPZ	EPN	22	56	14		-1.7	1.17	108	3.5		
	EP*			16		1.1					
	ES*			33		2.4					
OHZ	P*	22	56	23.0		-1.4	1.72	185		4.1	4.4
	S*			45.0		-2.3					
KKY	PN	22	56	28.4		0.1	2.11	65			
	E			37							
ROX	EP*	22	56	39		1.6	2.48	211		4.0	3.9
	E		57	03.5							
COB	EPN	22	56	34.0		-0.6	2.56	29		4.2	4.1
	E		57	11							
MSZ	EPN	22	56	34.2		-1.6	2.65	239		4.0	4.0
	I			45.5							
	ES*		57	16.8		1.5					
MNW	PN	22	56	46.5		-0.4	3.48	225		4.0	
	EP*			57		2.5					
MNG	EPN	22	56	57		-0.3	4.25	51		4.1	
	E		57	02							
CNZ	EPN	22	57	16		4.3*	5.33	40		3.9	
	IP*			24		-2.1					

KRP EPN 22 57 27.7 1.8 6.38 33

	H	M	S									72/ 529
OCT 29	08	19	04.9	41.47S	174.63E	12 KM	SE	1.2	AVG MAG			3.6
		+-	0.7	0.04	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL		IP*	08	19	10.0	U	0.4	0.21	30	3.2		
			S*			13.7		0.9					
	MNG		P*	08	19	23.3		-0.9	1.06	38		3.9	3.8
			S*			38.2		-0.4					
	KKY		EP*	08	19	26.5		0.3	1.18	216			
	COB		P*	08	19	31.2		-0.1	1.48	284			
			S*			51.2		0.2					
	CNZ		P*	08	19	46.0		-0.6	2.37	18		3.7	3.8
			S*		20	20		2.2					
	KRP		ES*	08	20	53		-2.0	3.61	11			3.5
			E		21	00							

FELT WELLINGTON (68) MM III

	H	M	S									72/ 530
OCT 29	18	11	12.2	41.43S	174.51E	68 KM	SE	1.8	AVG MAG			3.7
		+-	0.8	0.05	0.06	10						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL		IP	18	11	24.2	U	0.9	0.24	53	4.0		
			S			31.0		-0.6					
	MNG		P	18	11	32.2		-0.2	1.09	42		3.8	3.9
			ES			45.5		-1.9					
	KKY		P	18	11	36.0		2.7	1.16	212			
			E			52.7							
	COB		IP	18	11	37.2		0.9	1.39	284			
			ES			54		-0.2					
	TNZ		EP	18	11	50		2.1	2.24	357		3.8	3.9
			E		12	18							
	TRZ		E	18	12	10			2.57	44		3.8	3.8
			ES			25		1.8					
	GPZ		ES	18	12	23.5		-1.7	2.65	211	3.7		
	KRP		EP	18	12	06		-0.8	3.59	13		3.5	
			E			15							
			S			47		-1.3					
	MJZ		S	18	12	55		-1.7	3.93	228			3.1

FELT YORK BAY (68) MARSHLANDS (79) MM III

	H	M	S									72/ 531
OCT 30	02	41	16.2	38.13S	176.02E	219 KM	SE	1.6	AVG MAG			4.4
		+-	1.1	0.05	0.06	10						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		P	02	41	46.1		0.7	0.44	298			
			S		42	07.0		-0.9					
	WTZ		P	02	41	45.3		-1.5	0.78	79		4.2	4.1
			E		42	03							
	CNZ		EP	02	41	51.0		2.1	1.13	199		3.5	3.6
			E		42	22							
	TRZ		P	02	41	53.5		1.3	1.55	157		4.4	4.6
			ES		42	21		0.8					
	GNZ		P	02	41	53.7		0.5	1.65	109		5.1	5.3
			I			45.8							
			S		42	20.2		-1.5					
	GBZ		P	02	41	55.2		-0.8	1.96	347		4.1	
	ECZ		P	02	41	57.0		0.1	2.04	78		5.3	4.5
			E		42	21							
	WEL		P	02	42	09.3		-0.9	3.30	197	4.6	4.2	4.6
			S			53.5		0.5					
	COB		P	02	42	21.0		3.1	3.89	220		4.1	4.5
			S		43	06		0.2					
	GPZ		S	02	43	54.5		-1.4	6.12	204	4.8		
	MJZ		S	02	44	18.5		-2.3	7.20	214			

	H M S									72/ 532
OCT 30	06 27 11.8	45.26S	167.29E	12 KM	SE 1.1		AVG MAG			4.0
	+- 0.7	0.02	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW P*	06 27 21.9		-0.7	0.57	157				
	ES*	29.5		-1.1						
	MSZ P*	06 27 25.0		-0.5	0.74	37				
	ES*	34		-1.6						
	ROX P*	06 27 38.2		0.6	1.44	99		3.8	4.3	
	S*	57		0.1						
	WPZ EPN	06 27 41.3		-0.4	1.77	143		3.9	4.1	
	SN	28 04		0.3						
	OHZ EPN	06 27 53.0		0.4	2.57	87		4.2	4.0	
	EP*	59.0		2.2						
	S*	28 30		-0.6						
	HUZ EPN	06 27 52.7		-0.3	2.60	62		3.8		
	P*	59.3		2.0						
	ES*	28 31		-0.5						
	KAI E	06 29 09.7			4.04	49	4.1			
	E	24.8								
	GPZ				4.14	70	4.1			
	COB PN	06 28 39.0		3.5*	5.76	46		4.2		

	H M S									72/ 533
OCT 31	01 12 58.2	39.73S	175.06E	12 KM	SE 1.2		AVG MAG			3.9
	+- 0.4	0.02	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ IPG	01 13 12.3	U	0.8	0.65	36				
	TNZ PG	01 13 13.7		0.1	0.75	316		4.0	4.2	
	SG	24.8		1.0						
	TRZ EPG	01 13 27		1.0	1.37	83		3.9		
	E	30								
	E	49								
	WEL EPN	01 13 24		-1.4	1.57	188	3.4	4.0		
	EPG	31		1.0						
	ESN	45.5		0.0						
	KRP PN	01 13 28.2		-0.7	1.84	12		3.9		
	EPG	33.8		-1.7						
	E	51								
	WTZ EPN	01 13 34		-1.2	2.30	41		3.6		
	EPG	46		1.2						
	GNZ E	01 13 56			2.55	66				

	H M S									72/ 534
OCT 31	12 00 07.5	37.40S	176.70E	235 KM	SE 1.0		AVG MAG			4.1
	+- 0.9	0.04	0.05	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ P	12 00 39.3		-0.0	0.62	159		3.8		
	E	01 01								
	KRP P	12 00 42.0		0.4	1.06	240		3.3		
	ES	01 07.5		-0.5						
	GBZ P	12 00 44.5		-0.6	1.54	320		3.9		
	GNZ P	12 00 47.0		1.3	1.62	140		5.0	5.0	
	S	01 14		-1.2						
	CNZ P	12 00 49.3		0.1	2.01	207		3.6	3.6	
	ES	01 23		1.6						
	E	26								
	TRZ P	12 00 51.2		0.7	2.15	178		4.2	4.3	
	S	01 24		0.2						
	WEL P	12 01 12.5		-0.6	4.16	201	4.6	4.0	4.1	
	S	02 03		-1.1						

	H M S									72/ 535
OCT 31	22 54 37.2	49.49S	165.13E	33 KM	SE 2.0		AVG MAG			4.4
	+- 2.6	0.21	0.23	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WPZ EP	22 55 32.3		0.1	3.77	43		4.1	4.4	

		S		56	15		0.7			
	MNW	P	22	55	35		-1.3	4.07	25	4.9 4.2
		I			37.5					
		S		56	21		-0.6			
	MSZ	EP	22	55	54.5		3.2	5.18	23	4.5
	OMZ	EP	22	56	02		0.8	5.92	44	4.3
	MJZ	EP	22	56	08		-2.6	6.61	36	
		E			22					
		E			30					
	COB	EP	22	56	55		-0.3	9.96	35	

72/ 536

	H	M	S									
NOV 02	12	03	22.0	45.27S		167.54E	105 KM	SE	0.7	AVG MAG		3.9
		+-	0.8	0.03		0.04	9					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	MSZ		P	12	03	39.5	-0.2	0.66	24			
	ROX		P	12	03	47.2	0.8	1.27	100		3.8	3.9
			S		04	05.3	0.6					
	WPZ		P	12	03	50.7	-0.4	1.67	147		4.0	3.6
			S		04	12.5	-0.3					
	OMZ		P	12	04	01	0.4	2.40	86		4.3	4.0
			ES			29	-0.6					
	MJZ		S	12	04	30.6	-0.3	2.45	60			3.5

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	H	M	S									
NOV 04	05	44	05.3	49.90S		164.90E	33 KM	SE	2.2	AVG MAG		4.3
		+-	3.2	0.21		0.25	R					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	WPZ		P	05	45	05.7	-0.0	4.18	41		4.4	4.5
			S			51.8	-0.3					
	ROX		E	05	45	21		5.33	36		4.3	4.2
			ES		46	22	1.8					
	MSZ		EP	05	45	24	-1.2	5.62	23		4.4	4.2
			ES		46	28.3	1.6					
	OMZ		EP	05	45	36	1.3	6.32	42			
			ES		46	44.3	0.8					
	MJZ		E	05	45	55		7.03	35			
			ES		46	57	-3.8					
	GPZ		E	05	47	35		8.16	43			

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	H	M	S									
NOV 04	14	26	15.3	38.64S		176.15E	120 KM	SE	1.4	AVG MAG		3.8
		+-	1.8	0.07		0.08	23					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	CNZ		IP	14	26	36.9	U 1.7	0.73	220		3.4	
	WTZ		IP	14	26	36.0	-0.9	0.93	46		3.4	
	TRZ		E	14	26	43.0		1.05	150			
			E		27	01						
	GNZ		P	14	26	43.8	0.9	1.47	91		4.4	3.9
			I			44.1						
			ES		27	03	-0.8					
	MNG		IP	14	26	50.4	U 0.7	2.04	194		4.2	3.3
			ES		27	15.5	-0.3					
	WEL		ES	14	27	35	0.1	2.85	201			
	COB		ES	14	27	51	-1.4	3.59	226			

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	H	M	S									
NOV 05	01	01	55.3	38.77S		176.77E	33 KM	SE	1.4	AVG MAG		4.0
		+-	0.3	0.02		0.02	R					
				H	M	S	DIR RES	DIST	AZ	W-A	W P	W S
	TRZ		EIP*	01	02	12.0	1.5	0.78	177			
	WTZ		IPN	01	02	09.2	D -0.4	0.80	12		4.3	4.2
			ESN			20	-0.1					
	GNZ		EP*	01	02	15.5	1.4	0.99	83		4.5	4.5
			ES*			26	-1.6					
			E			35						
	CNZ		IP*	01	02	14.0	D -0.8	1.04	245		4.3	4.3
			E			21.3						

		ES*			29		-0.1				
		ESG			33						
	KRP	IPN	01	02	15.8	UW	-0.4	1.29	311	3.3	3.3
		ESN			31		-0.9				
	ECZ	EPN	01	02	24		1.2	1.76	53	4.2	4.1
		ESG			59						
	TNZ	EPN	01	02	26.5		1.7	1.91	257	3.9	
	MNG	PN	01	02	26.7		-0.6	2.10	208	4.1	4.2
		E			31.5						
		E			42.2						
		SN			51.3		-0.2				
		E		03	00						
	GBZ	EPN	01	02	35.5		-0.8	2.75	338	3.6	
	WEL	P*	01	02	45.8		-1.2	2.94	211	3.9 4.1	4.0
		ESN		03	11		-1.2				
		ES*			26		0.3				
	COB	EPN	01	02	54		2.3	3.87	232	4.1	4.1
		E		03	42						
	CIZ	EPN	01	03	39		2.2	7.21	138		
		ESN		04	53		-2.1				

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	H	M	S								
NOV 05	01	48	14.3	32.09S		179.81E	551 KM	SE	1.6	AVG MAG	4.5
		+-	1.9	0.15		0.31	25				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	P	01	49	48.2		-0.6	5.46	220		4.0	
ECZ	EP	01	49	52.5		1.6	5.69	190		4.7	4.6
	ES		51	09		1.5					
WTZ	P	01	49	56.7		0.1	6.32	201			
GNZ	E	01	50	03			6.70	192			
	ES		51	22		-2.4					
KRP	EP	01	50	02		0.9	6.80	210			
TRZ	E	01	51	41			7.83	197			
CNZ	EP	01	50	11		-0.8	7.90	205			
	ES		51	45		-0.5					
MNG	P	01	50	23.5		-1.3	9.20	201			
	E			24.2							
	ES		52	08		-1.1					
WEL	ES	01	52	26.5		2.1	10.03	202			
COB	ES	01	52	36		0.5	10.63	210			

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	H	M	S								
NOV 05	08	42	27.6	37.48S		177.49E	128 KM	SE	1.6	AVG MAG	4.0
		+-	1.1	0.06		0.05	9				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP	08	42	47.1	D	-0.5	0.65	218		4.9	4.0
	E			55							
	ES		43	02		-0.9					
ECZ	P	08	42	48.8		-0.5	0.86	105		4.6	4.2
	E			51.2							
	ES		43	06		0.1					
GNZ	P	08	42	53.5	D	0.4	1.24	161		4.4	4.7
	E		43	06							
	S			12.9		0.4					
KRP	IP	08	42	58.7	DNE	1.4	1.62	253		3.9	3.0
	ES		43	20		0.1					
GBZ	EP	08	43	01		-1.4	2.05	307		3.2	
TRZ	EP	08	43	06		2.3	2.14	194		4.0	4.2
	E			36							
CNZ	EP	08	43	08		2.2	2.30	221		4.2	3.5
	E			10.2							
	E			40.5							
TNZ	EP	08	43	18		3.0	2.99	234		4.0	
MNG	P	08	43	20.3		-1.4	3.51	206		3.6	3.6
	ES		44	02		-1.1					
WEL	ES	08	44	22		-1.3	4.35	208			3.9
COB	EP	08	43	42		-1.9	5.16	224			3.8
	ES		44	42		-0.8					

	H	M	S									72/ 542
NOV 05	08	56	01.9	39.32S	174.71E	53 KM	SE	1.1	AVG MAG			3.5
	+-		0.5	0.02	0.03	10						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ		P	08	56	15.8		-0.3	0.69	338		3.7	3.5
			ES			27.5		0.9					
	CNZ		IP	08	56	17.7	D	-1.1	0.90	46		3.8	3.9
			ES			30		-1.4					
	MNG		P	08	56	19.8		-0.2	0.99	144		3.5	3.5
			S			33.8		0.3					
	WEL		EP	08	56	26.5		-0.0	1.46	178		3.4	3.6
			S			46.4		1.4					
	COB		EP	08	56	33		-0.5	1.97	229			3.5
			ES			56		-0.9					
	KRP		P	08	56	34.4		0.5	2.00	19		3.1	3.0
			ES			59		1.2					

	H	M	S									72/ 543
NOV 05	08	56	13.1	34.57S	178.27E	214 KM	SE	0.9	AVG MAG			4.1
	+-		1.1	0.08	0.12	16						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		EP	08	57	05.5		0.1	3.13	176		4.5	4.0
			ES			46		0.0					
	WTZ		EP	08	57	12		1.4	3.56	196		4.0	3.9
			ES			54.5		-0.7					
	GNZ		P	08	57	15.8		-1.1	4.07	183		4.4	4.4
			S		58	06.5		0.2					
	TRZ		ES	08	58	30.5		1.0	5.11	193			
	CNZ		ES	08	58	29.5		-0.1	5.11	204			3.3
	MNG		EP	08	57	46.5		-0.3	6.43	199			
			ES		58	59		-0.9					
	WEL		ES	08	59	19.5		0.5	7.25	201			

	H	M	S									72/ 544
NOV 05	17	21	39.2	37.95S	176.23E	240 KM	SE	1.2	AVG MAG			4.2
	+-		0.8	0.04	0.05	7						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		P	17	22	11.2	D	-0.1	0.55	262		3.6	3.3
			ES			37		0.8					
	WTZ		EP	17	22	10.5		-1.0	0.62	103		3.4	3.7
			ES			33.5		-1.1					
	CNZ		P	17	22	17.9		1.3	1.45	201		4.0	3.7
			A			44							
	GNZ		P	17	22	18.7	D	0.8	1.62	120		4.9	4.7
			ES			48		0.3					
	GBZ		P	17	22	16.9	U	-1.9	1.73	340		3.9	
	TRZ		EP	17	22	20		0.9	1.77	165		4.0	4.4
			E			55.5							
	ECZ		P	17	22	18.7		-1.0	1.84	86		4.5	4.3
			ES			52		0.9					
	TNZ		P	17	22	22.9		2.0	1.97	227		4.1	
	ONE		EP	17	22	27		0.3	2.55	323			
	MNG		P	17	22	30.0	D	0.3	2.83	192		4.6	4.4
			ES		23	07.5		-1.4					
	WEL		IP	17	22	38.2	D	-0.4	3.62	198	4.7	3.9	4.7
			ES		23	24		-0.7					

	H	M	S									72/ 545
NOV 05	17	31	23.7	38.00S	178.95E	12 KM	SE	1.8	AVG MAG			3.9
	+-		0.9	0.03	0.05	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		IP*	17	31	31.6	U	-0.8	0.44	314			
			ESG			41.5		2.4					
	GNZ		IP*	17	31	43.4	D	2.0	0.97	228		4.4	4.5
			E			52.5							
			ESG			59		2.3					
	WTZ		PN	17	31	49.8		-0.9	1.55	270		4.2	

	EPG			57		1.9				
TRZ	PN	17	32	01.0		0.7	2.27	226	4.4	4.0
	ES*			32		-1.7				
KRP	EPN	17	32	05		-1.3	2.70	271	3.4	3.3
	ESN			36		-2.3				
CNZ	EPN	17	32	09.5		0.2	2.92	245	3.9	
	E			27						
GBZ	EPN	17	32	12		-2.2	3.30	302	3.7	
MNG	PN	17	32	18.9		-1.5	3.75	225	3.7	3.6
	ESN			33	03.5	0.1				
ONE	EPN	17	32	29		1.2	4.30	300		
WEL	ESN	17	33	22.5		-1.5	4.60	223		4.0
CIZ	E	17	33	07			6.85	152		
	ESN			34	19	1.4				

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	H	M	S									
NOV 06	09	25	19.6	36.17S	177.53E	242 KM	SE	1.4	AVG MAG		3.9	
	+-		1.5	0.07	0.20	12						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ		P	09	25	59.0	D	-0.0	1.70	268		3.7	
	WTZ		EP	09	25	59.7		-0.8	1.87	194		3.5	3.4
			ES		26	31		-1.1					
	KRP		P	09	26	07.9		2.4	2.39	222		3.7	
	GNZ								2.49	172		4.2	4.4
	TRZ		EP?	09	26	17		0.1	3.43	190			4.4
			ES		27	02.5		1.2					
	MNG		P	09	26	31.2		-1.2	4.73	200		3.7	3.9
			ES		27	29		-0.2					
	WEL		EP?	09	26	42		-0.6	5.56	202		3.8	3.9
			ES		27	48		0.6					

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	H	M	S									
NOV 06	10	18	24.2	37.62S	177.13E	134 KM	SE	1.9	AVG MAG		4.2	
	+-		1.0	0.05	0.05	9						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP	10	18	43.1	U	-0.3	0.38	200			
			ES			57		-1.0					
	ECZ		IP	10	18	47.8	U	-1.0	1.11	94		5.1	4.5
			E			51.0							
			ES		19	08		0.4					
	GNZ								1.23	146		4.6	5.2
	KRP		IP	10	18	51.7	DE	0.7	1.31	256		3.7	3.1
			ES		19	14		2.6					
	GBZ		IP	10	18	54.8	D	-3.2	1.94	316		4.5	
	TRZ		EP	10	18	59		0.9	1.94	188			4.4
			E		19	29							
	CNZ		P	10	19	02.0		3.0	2.02	218		3.7	3.4
			E			37							
	ONE		EP	10	19	11.5		0.8	2.90	309			
	MNG		EP	10	19	13		-2.2	3.26	203		3.9	3.8
			ES			53		-1.1					
	WEL		S	10	20	12.8		-1.1	4.10	206	4.5		4.2
	COB		ES	10	20	31.5		-0.9	4.87	223			3.9
	CIZ		EP	10	20	20		2.3	7.92	145			
			ES		21	46		-0.1					

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	H	M	S									
NOV 07	00	47	21.0	42.65S	171.44E	12 KM	SE	1.4	AVG MAG		4.1	
	+-		0.4	0.03	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GPZ		EPN	00	47	46		0.4	1.37	140	3.7		
			EPG			48.5		-0.2					
			ESN		48	02.5		-1.2					
	MJZ		EPN	00	47	48.5		1.1	1.51	208		4.3	4.3
			EPG			49.5		-2.1					
			ES*		48	09		1.0					
	COB		EP*	00	47	54.5		0.9	1.84	32			
	ONZ		EPN	00	48	00		0.0	2.45	189		4.2	4.3

		ESN			29	-0.0				
	WEL	EP*	00	48	13	2.4	2.84	62	4.3	4.2
		ESG			56	-0.6				
	ROX	ESN	00	48	48	0.5	3.21	208		4.1
		ESG			49 10	0.8				
	MSZ	P*	00	48	15.8	-2.0	3.25	230	4.0	4.2
		PG			22.5	-4.3*				
		ESN			49	0.4				
		E			49 05					
	MNG	EPN	00	48	15.9	-0.4	3.65	58	4.6	3.8
		E			22.0					
		EP*			26.8	2.2				
		E			49 06					
	CNZ	EP*	00	48	39.5	-2.1	4.65	43	4.4	4.3
		E			46					
		E			49 52					
	KRP	E	00	48	50.5		5.67	35	3.7	3.6
		ESN			49 46	-0.9				

FELT ROSS (91) MM V

	H M S								72/ 549
NOV 08	09 49 19.8	37.11S	176.78E	266 KM	SE	1.6	AVG MAG		3.7
	+- 2.1	0.11	0.13	16					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	P	09 49 56.0		-0.1	0.88	169		3.7	3.3
	ES	50 24.5		-0.0					
KRP	EP	09 49 59		0.4	1.28	230			
GNZ	EP	09 50 03		0.6	1.81	148		3.9	3.9
	ES	33.2		-2.1					
TRZ	ES	09 50 48		2.6	2.43	179			
MNG	P	09 50 20.8		-0.0	3.64	196		3.9	3.7
	ES	51 08		-0.2					
COB	ES	09 51 37		-1.1	5.07	217			

	H M S								72/ 550
NOV 08	09 59 14.4	37.00S	176.97E	277 KM	SE	0.8	AVG MAG		3.7
	+- 0.9	0.07	0.09	8					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	P	09 59 51.8		-0.6	0.98	179		3.4	3.2
	ES	10 00 22		-0.1					
GNZ	EP	09 59 59		0.9	1.84	153		4.2	4.2
	ES	10 00 32		-0.1					
CNZ	EP	10 00 04.5		0.8	2.47	207		3.6	
TRZ	EP	10 00 04.5		-0.0	2.55	183			
	ES	48		4.4*					
MNG	EP	10 00 16.5		-1.2	3.80	197		3.9	3.6
	ES	01 07		0.1					
COB	ES	10 01 37.5		0.2	5.25	218			

	H M S								72/ 551
NOV 08	14 57 18.6	35.38S	178.18E	235 KM	SE	2.0	AVG MAG		4.4
	+- 1.7	0.10	0.10	13					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	14 58 03		-0.4	2.33	173		4.4	4.5
	ES	35.5		-2.5					
WTZ	EP	14 58 09		0.8	2.77	200		4.3	4.1
	ES	48		1.4					
GNZ	EP	14 58 13		-0.6	3.26	182		4.8	5.2
	E	51							
	ES	56		-0.3					
KRP	EP	14 58 17		2.8	3.31	219		3.8	
TRZ	EP	14 58 26		-0.0	4.31	194			4.8
	ES	59 21		2.6					
CNZ	P	14 58 28.8		2.2	4.35	208		4.2	3.6
	E	39 26							
MNG	P	14 58 41.0		-1.7	5.65	201		5.[illegible]	4.1
	ES	59 46		-2.2					
WEL	IP	14 58 51.1	U	-2.1	6.48	203			

		ES	15	00	05.5		-1.6					
	COB	EP	14	59	00		-1.5	7.13	215			
		ES	15	00	23		1.0					
	CIZ	S	15	01	17.5		1.9	9.47	156			

72/ 552

	H	M	S									
NOV 08	16	26	05.0	39.71S	176.40E	33 KM	SE	1.3	AVG MAG	4.4		
	+-		0.3	0.02	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ	IP*		16	26	15.2		1.7	0.36	65			
	CNZ	IPN		16	26	20.8	D	1.1	0.83	307			
	MNG	IPN		16	26	24.9	U	0.8	1.15	217		4.6	4.6
		ES*				42		0.1					
	CAZ	P*		16	26	27.5		0.5	1.20	186		4.7	
		E				35.5							
		ES*				44.5		1.1					
	TNZ	EPN		16	26	30		-0.9	1.65	288		4.4	4.2
		E				39.2							
		ESN				52		1.6					
	GNZ	EPN		16	26	31		0.1	1.65	50		4.4	4.6
		E				43							
		ESN				52		1.6					
	WTZ	PN		16	26	32.2	U	-0.5	1.78	15		4.5	4.1
		E				39.5							
		ESN				53		-0.6					
	KRP	IPN		16	26	33.8	UNW	-0.6	1.90	339		4.2	4.0
		ESN				55		-1.6					
	WEL	PN		16	26	36.0		0.1	2.01	218	4.0	4.7	4.8
		E				46.5							
		E			27	04.5							
		E				16							
	ECZ	EPN		16	26	44		-0.2	2.62	41		4.3	4.1
		E			27	08							
	COB	EPN		16	26	51.5		0.4	3.12	243		4.5	4.4
		EP*				56		-3.8*					
		E			27	03.8							
		ES*				39		-1.7					
	CIZ	ESN		16	28	51		-2.9	6.75	131			

FELT IN HAWKES BAY MAX INTENSITY MM V AT PATOKA (52)

72/ 553

	H	M	S									
NOV 09	05	46	21.1	37.08S	176.27E	322 KM	SE	1.4	AVG MAG	4.1		
	+-		2.3	0.13	0.20	18						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ	P		05	47	04.1		-0.3	1.07	148		3.5	3.7
		ES				37		-1.2					
	GNZ								2.09	139		4.9	4.9
	CNZ	IP		05	47	13.0	U	1.3	2.19	195		3.8	
	TRZ	ES		05	47	57		1.1	2.51	170			4.2
	MNG	P		05	47	23.3	D	-1.3	3.58	190		4.2	3.9
		ES			48	13		-1.4					
	WEL	ES		05	48	29		-0.1	4.36	195			4.1
	COB	ES		05	48	39		0.0	4.85	213			

72/ 554

	H	M	S									
NOV 09	19	33	39.8	36.30S	178.94E	12 KM	SE	1.5	AVG MAG	4.3		
	+-		1.0	0.05	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EPG		19	34	09.5		0.9	1.42	193		4.5	4.6
		E				40							
	WTZ	PN		19	34	17.9		1.3	2.29	222		4.5	4.1
		E				47							
	GNZ								2.45	197		5.1	4.7
	GBZ	EPN		19	34	22		-1.6	2.79	271		4.3	
		P*				29.0		0.3					
	KRP	PN		19	34	29.9		1.4	3.16	238		4.2	3.6
		ESN			35	07.5		2.3					
	TRZ	EPN		19	34	35		-0.1	3.65	207		4.3	4.4

		E		35	21						
	ONE	EPN	19	34	35	-1.4	3.74	277		3.1	
	CNZ	EPN	19	34	41.6	2.4	3.95	222		4.2	4.1
		E		35	33						
	MNG	EPN	19	34	54	-0.5	5.09	211		4.1	4.1
		EP*		35	06	-2.0					
		ESN			51	-0.8					
		ES*		36	15	0.6					
	WEL	ESN	19	36	10	-2.3	5.95	212	4.9		4.3
	COB	ESN	19	36	32	-0.8	6.81	224			
	CIZ	EPN	19	35	39	0.6	8.38	157			
		E		36	20						
		ESN		37	10	-0.3					

	H	M	S									72/ 555
NOV 10	12	48	54.2	38.26S		176.39E	186 KM		SE	1.0	AVG MAG	3.6
		+-	1.3	0.04		0.06	8					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP	12	49	20.3	U	0.3	0.54	60		4.0	3.1
			ES			40		0.1					
	KRP		P	12	49	21.0	U	-0.1	0.75	296		3.4	3.0
			ES			41		-0.9					
	CNZ		E	12	49	30			1.15	215		3.0	3.1
			ES			48.5		1.7					
	TRZ		ES	12	49	49		-0.6	1.33	166			4.1
	GNZ								1.33	107		3.8	4.1
	MNG		IP	12	49	37.9	D	0.7	2.46	196		4.2	3.9
			ES		50	10		-0.3					
	WEL		ES	12	50	27		-0.8	3.27	202			3.9

	H	M	S									72/ 556
NOV 11	04	51	59.1	36.47S		177.64E	270 KM		SE	1.7	AVG MAG	4.1
		+-	1.9	0.06		0.13	17					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		P	04	52	38.9		-0.3	1.42	150		5.0	
			E		53	03							
			ES			09		-1.0					
	WTZ		EP	04	52	40		-0.4	1.60	199		3.9	4.0
			ES		53	08		-4.3*					
	GBZ		IP	04	52	40.9	D	-0.7	1.76	278		4.1	
	GNZ								2.19	172		4.6	4.8
	KRP		EP	04	52	47		1.5	2.22	229		3.4	
	TRZ		ES	04	53	40		1.9	3.15	192			4.4
	CNZ		EP	04	52	59		3.7	3.19	211		3.6	
	MNG		P	04	53	09.2		-0.6	4.47	202		4.0	3.5
			ES		54	03		-2.0					
	CRZ		EP	04	53	10		-0.5	4.53	295		4.2	
	WEL		EP	04	53	19		-0.7	5.31	204		4.0	4.3
			ES		54	23		0.2					
	COB		EP	04	53	28		-0.2	6.00	218			4.0
			ES		54	37		-0.9					

	H	M	S									72/ 557
NOV 11	13	00	53.5	37.15S		176.82E	220 KM		SE	1.5	AVG MAG	4.8
		+-	0.8	0.04		0.04	6					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		P	13	01	24.3		-0.3	0.84	171		4.5	4.7
			E			30							
			E			34							
			ES			48.5		-0.2					
	KRP		P	13	01	28.7	DSW	1.2	1.28	232		4.1	3.5
			ES			55		1.2					
	GBZ		IP	13	01	28.0	D	-0.6	1.42	311		4.7	
	ECZ		P	13	01	28.0	D	-1.0	1.48	112		5.2	5.2
			E			48							
			ES			55		-1.6					
	GNZ								1.77	148		5.7	5.7
	CNZ		P	13	01	38.3	D	1.6	2.28	206		4.8	4.7

		ES		02 16		6.0*					
	TRZ	P	13	01 38	U	0.1	2.40	180		5.0	
		ES		02 12		-0.3					
	ONE	EP	13	01 38		-0.0	2.41	304	3.8		
		ES		02 13		0.5					
	TNZ	P	13	01 45.2		2.8	2.80	223		4.4	3.7
		E		02 28							
	MNG	IP	13	01 51.2	U	-0.7	3.61	196		5.3	5.2
		E		02 31.5							
	CAZ	EP	13	01 54		0.1	3.77	187		4.9	5.1
		ES		02 42		1.4					
	CRZ	P	13	02 01.0		0.4	4.32	308		4.3	
	WEL	IP	13	02 00.4		-1.4	4.42	200	5.5	5.3	5.4
		E		50							
		ES		53		-1.9					
	COB	EP	13	02 08.5		-1.2	5.05	218		4.4	4.8
		ES		03 08		-0.9					
	GPZ	EP	13	02 36		-2.1	7.27	205	5.6		
		E		03 55							
	CIZ	ES	13	04 30		2.8	8.45	146			

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	H	M	S									
NOV 11	21	49	32.5	40.14S	176.77E	12 KM	SE	1.4	AVG MAG		4.1	
		+-	0.5	0.02	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		IP*	21	49	45.3		1.7	0.59	4			
	MNG		IP*	21	49	54.1		1.9	1.09	244			
	CNZ		IP*	21	49	56.8	U	0.5	1.33	314		4.7	4.6
			PG		50	00.5		1.1					
			ES*			14		-0.1					
	GNZ								1.78	33		4.1	4.5
	WEL		PN	21	50	04.9		0.8	1.90	232	3.8	4.0	4.4
			EPG			13		2.0					
			SN			28.8		1.5					
	TNZ		E	21	50	12			2.07	297		4.0	3.6
			EPG			15		0.6					
			ES*			36		-0.4					
	WTZ		PN	21	50	05.1		-1.4	2.16	5		4.1	3.9
			P*			09.0		-1.5					
			E			26							
	KRP		EPN	21	50	10		-0.9	2.41	336		3.9	
			E			17							
	ECZ		E	21	50	42.5			2.81	30			4.2
	COB		EPN	21	50	22		0.1	3.21	252		3.9	3.8
			EPG			36		-1.5					
			ESN			59		-0.1					
			ESG			51 19		-1.8					
	GPZ		ESN	21	51	33		-2.1	4.70	220			3.5
	CIZ		E	21	51	07			6.26	130			
			ESN			52 12		-0.4					

FELT WAIPAWA (60) MM IV

72/ 559

	H	M	S									
NOV 12	01	27	36.7	37.99S	176.60E	172 KM	SE	1.4	AVG MAG		4.1	
		+-	1.0	0.05	0.07	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WTZ		IP	01	27	59.9	U	-0.2	0.31	89			
			ES		28	16		-2.0					
	KRP		EP	01	28	03.5		0.9	0.84	274		3.3	
			ES			22.5		-0.1					
	GNZ								1.30	121		4.8	4.8
	CNZ		P	01	28	09.8		1.9	1.46	214		3.4	3.6
			ES			34		2.1					
	TRZ		P	01	28	10.8		1.8	1.57	174		4.2	4.0
			ES			38.1		4.3*					
	ECZ		EP	01	28	09		0.0	1.57	80		4.7	
	GBZ		P	01	28	12.3		-0.6	1.98	333		4.1	
	MNG		P	01	28	22.3		-0.4	2.76	198			

		ES		57.0		-1.1					
	WEL	EP	01	28 32.3		-0.5	3.58	203	4.3	4.3	4.3
		ES		29 16		-0.2					
	COB	E	01	29 09			4.30	223			3.9
		ES		31		-1.7					

	H M S									72/ 560
NOV 12	03 57 32.4	40.28S	173.53E	194 KM	SE	1.8	AVG MAG			4.2
	+- 1.7	0.06	0.08	13						
		H M S	DIR	RES	DIST	AZ	W-A	W P		W S
	COB P	03 58 03.3	U	1.6	1.01	217		4.4		4.2
	L	20.9								
	ES	24		-0.4						
	TNZ EP	03 58 05		1.2	1.28	31		3.6		3.9
	ES	28		-0.2						
	WEL IP	03 58 07.0	D	2.3	1.38	137	4.2	4.3		4.7
	E	26								
	ES	30		0.3						
	MNG IP	03 58 07.3		1.8	1.53	103				
	CNZ IP	03 58 11.0	D	1.3	1.90	56		4.2		4.7
	E	34								
	S	38.4		-0.0						
	TRZ ES	03 58 52		-1.2	2.64	75				4.4
	E	59								
	KAI ES	03 58 55		-0.6	2.75	215				
	KRP E	03 58 28			2.83	34		3.5		3.4
	E	35								
	ES	55		-2.2						
	GPZ ES	03 59 08		-3.0	3.47	191	4.5			
	WTZ ES	03 59 11.3		-0.9	3.54	51				3.7
	GNZ				3.84	66		4.5		4.8

	H M S									72/ 561
NOV 12	13 09 49.2	37.49S	177.39E	147 KM	SE	1.3	AVG MAG			4.2
	+- 0.9	0.05	0.04	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P		W S
	WTZ IP	13 10 10.7	U	-0.1	0.59	212		4.6		4.3
	E	23								
	ES	26		-1.5						
	EGZ P	13 10 13.2	U	-0.1	0.94	103		4.8		4.6
	E	25.4								
	S	31.4		-0.5						
	GNZ				1.26	157		4.8		5.4
	KPP P	13 10 20.4	UW	1.2	1.53	253		3.5		3.2
	S	43		0.9						
	GBZ P	13 10 23.3		-0.5	1.99	309		3.9		
	TRZ EP	13 10 27		1.2	2.11	192		3.8		4.6
	ES	55.5		1.7						
	CNZ EP	13 10 29		1.6	2.24	220		3.6		3.5
	E	11 00								
	MNG EP	13 10 42		-1.1	3.46	205				
	WEL E	13 10 50			4.30	207				4.1
	ES	11 43.3		-0.7						
	COB ES	13 12 01		-2.0	5.09	224				3.8
	CIZ ES	13 13 11		-0.0	7.92	146				

	H M S									72/ 562
NOV 13	14 15 37.5	40.44S	173.34E	181 KM	SE	2.0	AVG MAG			4.5
	+- 0.8	0.05	0.05	10						
		H M S	DIR	RES	DIST	AZ	W-A	W P		W S
	WEL IP	14 16 11.0	USE	2.4	1.37	128	4.7	5.1		5.2
	E	32.0								
	ES	33.3		0.8						
	TNZ EP	14 16 11		1.3	1.49	33		3.8		4.1
	E	29								
	ES	35		0.4						
	MNG IP	14 16 13.0		1.8	1.64	97		4.9		4.9
	ES	36		-1.2						

	CNZ	IP	14	16	17.1	U	0.9	2.10	55	4.8	4.9
		E			41						
		ES			46		0.1				
	TRZ	EP	14	16	24.5		-0.2	2.82	73	4.5	4.8
		ES		17	00		-1.0				
	KRP	P	14	16	30		2.7	3.04	35	3.7	4.0
		E			41						
		ES		17	03.5		-2.1				
	GPZ	EP	14	16	33		2.6	3.29	189	5.3	
		S		17	09		-2.2				
	WTZ	P	14	16	39		2.8	3.75	50	3.7	4.3
		E		17	14						
		ES			18.5		-2.9				
	GNZ							4.04	65	4.9	5.1
	HJZ	EP	14	16	42		0.9	4.14	210	3.8	3.9
		S		17	29		-1.2				
	ECZ	EP	14	16	50		-0.9	4.89	58	4.7	4.7
		ES		17	45		-2.6				
	MSZ	P	14	17	02.7		-0.3	5.82	222	4.3	4.6
		ES		18	06.5		-2.9				
	CIZ	E	14	17	41			8.27	118		
		ES		19	08		0.8				

FELT IN WELLINGTON, HAWKES BAY AND WAIRARAPA

72/ 563

	H	M	S										
NOV 13	15	11	28.0	41.35S	176.00E	12 KM	SE	1.5		AVG MAG		4.3	
	+- 0.5			0.03	0.03	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*		15	11	42.9	U	-0.4	0.83	332		4.6	4.5
		E				50.5							
	WEL	IP*		15	11	46.5	DE	1.5	0.93	274	4.4	4.7	4.9
		S*				57.8		0.3					
	TRZ	PN		15	11	59.3		-0.3	1.90	20		4.5	4.3
		ESN			12	24		1.1					
		E			13	13.5							
		E			14	00							
	CNZ	IPN		15	12	03.9	D	0.6	2.18	351		4.7	4.8
		E				18.5							
	TNZ	E		15	12	11			2.49	330		4.3	4.1
		P*				14.2		2.5					
		ES*				42.5		-2.0					
	GNZ								3.12	31			4.2
	GPZ	E		15	12	45			3.41	225	4.1		
		ESN				58		-1.4					
	KRP	EP*		15	12	26.5		-1.5	3.44	354		4.2	4.1
		E				34							
		ES*			13	15		1.9					
	WTZ	EPN		15	12	20		-0.6	3.45	13		3.9	
		EPG				35.5		-2.3					
	MJZ	E		15	12	59			4.85	235			3.5
		ESN			13	35		0.7					
	CIZ	ESN		15	14	04		0.5	6.07	118			
	MSZ	ESN		15	14	20		-0.5	6.79	238			

FELT PURIRUA (6B) MM III

72/ 564

	H	M	S										
NOV 14	08	26	27.8	40.35S	174.23E	119 KM	SE	1.0		AVG MAG		4.5	
	+- 0.5			0.02	0.03	5							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP		08	26	51.1	U	1.1	0.99	106		4.8	4.7
		ES			27	07.5		0.6					
	WEL	P		08	26	51.5		1.3	1.02	157	4.4	4.0	5.0
		E				58.1							
		ES			27	06.5		-0.9					
	TNZ	IP		08	26	52.9	D	0.9	1.17	6		4.3	4.9
		S			27	10.4		0.1					
	COB	P		08	26	54.8		0.7	1.35	237			
		ES			27	13		-1.0					

```
       CNZ   IP          08 26 56.9  D     0.7   1.53   42          4.5  4.8
             S                27 17        -0.5
       TRZ   E           08 27 10.0                2.15   69          4.2  4.4
             ES               30           -0.6
       KRP    P          08 27 10.0  DSW   -0.2   2.63   23          4.4  4.3
             E                33
             ES               42           -0.1
       WTZ   EP          08 27 17           -0.6   3.19   43          3.9  4.0
             E                22
              S               54.4         -0.9
       GNZ                                         3.39   61                5.0
       GPZ   EP          08 27 21           -1.3   3.55  199
             ES               59           -4.9*
       ECZ   EP          08 27 33.5          1.2   4.28   53          4.7
             ES               28 21        -0.6
       FELT FAREWELL SPIT (72) M4 III

        H  M  S                                                                  72/ 565
NOV 14 17 14 28.0     38.00S  177.00E   12 KM    SE   ND      AVG MAG    3.4
           R           R        R         R
                       H  M  S     DIR   RES    DIST   AZ     W-A  W P   W S
       WTZ   IPG       17 14 30.2        -0.0*  0.02   329
             ESG              32          0.3*
       GNZ                                       1.03   129         3.4
       KRP   EP*       17 14 51           2.1*  1.16   273
       FELT WHAKATANE (27)

        H  M  S                                                                  72/ 566
NOV 14 17 26 42.5     38.00S  177.00E   12 KM    SE   ND      AVG MAG    3.5
           R           R        R         R
                       H  M  S     DIR   RES    DIST   AZ     W-A  W P   W S
       WTZ   IPG.      17 26 44.9        0.2*   0.02   329
             ESG              47          0.8*
       GNZ                                       1.03   129         3.5
       KRP   EP*       17 27 05           1.6*  1.16   273
       FELT WHAKATANE (27)?
       FELT REPORT COULD REFER TO SHOCK 72/ 567

        H  M  S                                                                  72/ 567
NOV 14 17 32 46.5     38.00S  177.00E   12 KM    SE   ND      AVG MAG    3.2
           R           R        R         R
                       H  M  S     DIR   RES    DIST   AZ     W-A  W P   W S
       WTZ   IPG.      17 32 49.1        0.4*   0.02   329
             ESG              51          0.8*
       GNZ                                       1.03   129         3.6
       KRP   EP*       17 33 08           0.6*  1.16   273         2.8
       REPORT COULD REFER TO SHOCK 72/ 566

        H  M  S                                                                  72/ 568
NOV 14 17 51 28.5     38.00S  177.00E   12 KM    SE   ND      AVG MAG    3.4
           R           R        R         R
                       H  M  S     DIR   RES    DIST   AZ     W-A  W P   W S
       WTZ   IPG.      17 51 29.2        0.5*   0.02   329
             SG               31.2        1.0*
       GNZ                                       1.03   129         3.4
       FELT WHAKATANE (27)

        H  M  S                                                                  72/ 569
NOV 15 00 41 42.2     38.57S  177.51E   12 KM    SE   1.5     AVG MAG    4.1
          +- 0.7       0.03     0.04      R
                       H  M  S     DIR   RES    DIST   AZ     W-A  W P   W S
       WTZ   IP*       00 41 56.7  U     1.2    0.71   324
       TRZ   EPN       00 42 05.0        1.5    1.12   209         4.5
             E                13
       ECZ    P*       00 42 02.9       -0.8    1.19    43         4.8
       CNZ   PN        00 42 12.0        1.4    1.66   247         4.5  4.4
             EPG              17          1.2
             E                34
```

	KRP	PN	00 42 10.3		-0.6	1.68	292		3.7	3.7
		EPG	18		1.7					
		ESN	30		-2.0					
	TNZ	EP*	00 42 26		-0.5	2.52	255			3.6
		ESG	43 07		-0.3					
	MNG	PN	00 42 22.9		-0.3	2.58	217		4.2	4.0
		E	40							
		ES*	59		-2.4					
	GBZ	EPN	00 42 26		-0.8	2.85	325		3.6	
	WEL	ESN	00 43 15		0.7	3.44	217	4.4		4.4
	COB	EP*	00 42 58		-1.6	4.46	234		4.0	4.2
		ESN	43 40.5		1.5					
	CIZ	E	00 43 24.5			6.99	142			
		ESN	44 36		-3.5*					

	H M S								72/ 570
NOV 15	01 13 48.4	37.99S	175.81E	279 KM	SE	1.4	AVG MAG		4.4
	+- 0.8	0.04	0.05	6					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	01 14 24.4	DSW	0.2	0.22	287			
	S	53.9		1.8					
WTZ	P	01 14 25.9	D	-0.4	0.93	90		4.1	3.9
	ES	53		-3.0					
CNZ	IP	01 14 28.8	U	0.7	1.22	189		4.1	4.4
	ES	15 00.5		1.8					
TNZ	EP	01 14 32		1.2	1.64	223		4.0	3.7
	ES	15 04		0.5					
TRZ	EP	01 14 32.5		0.9	1.75	153		4.3	4.5
	ES	15 09		3.9*					
GBZ	P	01 14 31.2	D	-0.7	1.79	352		4.3	
	E	35							
GNZ					1.86	111		4.9	5.0
ECZ	P	01 14 35.6		0.4	2.19	83		5.0	4.7
	ES	15 12		0.4					
ONE	EP	01 14 39		0.9	2.50	332	3.9		
MNG	P	01 14 37.9	U	-1.6	2.64	185		4.4	4.7
	E	15 08							
	S	17.2		-2.1					
WEL	EP	01 14 47		-0.2	3.39	193	4.8	4.2	4.8
	S	15 31.8		-1.2					
CRZ	P	01 14 57.2		-0.9	4.36	324		4.3	
CIZ	ES	01 17 20		1.3	8.29	138			

	H M S								72/ 571
NOV 15	17 38 48.1	38.70S	175.45E	176 KM	SE	1.6	AVG MAG		3.9
	+- 1.2	0.05	0.06	10					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	17 39 14.0		1.4	0.50	171		3.3	3.3
	E	19.3							
	S	34.0		2.5					
KRP	IP	17 39 14.4	DS	0.3	0.78	5		4.1	
	ES	33.5		-0.7					
TNZ	P	17 39 16.2		0.9	0.96	240		3.8	
TRZ	EP	17 39 20		1.2	1.36	129			3.9
	ES	43		0.6					
WTZ	EP	17 39 18		-1.2	1.41	60		3.3	3.1
	ES	40.5		-2.6					
MNG	IP	17 39 25.3	U	1.0	1.91	179		4.0	4.0
	ES	50		-2.2					
GNZ					2.01	89		4.9	4.2
WEL	P	17 39 33.2		0.4	2.63	191	4.1	3.6	4.1
	ES	40 06		-1.2					
ECZ	ES	17 40 08		0.7	2.64	69		4.4	
COB	EP	17 39 40		0.7	3.17	220			3.8
	ES	40 17		-1.7					

72/ 572

	H	M	S											
NOV 15	21	04	07.4	37.18S		177.18E		169 KM	SE	2.0	AVG MAG			4.0
			+- 2.3	0.15		0.15		17						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ		P	21	04	31.4	U	-1.4	0.82	190		4.1	3.6	
			ES			51.5		-1.0						
	ECZ		EP	21	04	36		0.1	1.21	116			4.0	
			E		05	05								
			E			10								
	KRP		IP	21	04	39.0	DE	0.3	1.50	240		3.6		
	GNZ								1.61	156		4.3	4.5	
	TRZ		E?	21	04	54.5			2.38	187		4.1	4.3	
			ES		05	24		3.8						
	CNZ		EP	21	04	50		1.4	2.39	212		3.7	3.6	
			E		05	29.0								
			E			34.2								
	MNG		EP	21	05	02.5		-2.3	3.68	201		3.8	3.9	
			ES			49.5		0.6						
	WEL		ES	21	06	08		0.0	4.50	204	4.6		4.4	
	COB		ES	21	06	24		-0.5	5.21	220			3.9	

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	H	M	S											
NOV 19	04	10	19.3	39.04S		175.50E		137 KM	SE	1.6	AVG MAG			4.3
			+- 0.8	0.04		0.04		?						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TNZ		P	04	10	43.8	U	1.8	0.88	260		3.8		
	KRP		IP	04	10	45.0	D	0.9	1.11	2				
			S		11	02.5		-0.7						
	TRZ		IP	04	10	46.0	D	1.5	1.15	117		4.6	4.5	
			S		11	04.5		0.7						
	WTZ		P	04	10	48.8	U	-0.3	1.57	48		3.7	3.7	
			S		11	10		-1.8						
	GNZ		P	04	10	55.2		1.1	2.01	80		5.0	4.7	
			S		11	18.5		-2.2						
	WEL		S	04	11	27		-0.5	2.31	194	4.1	3.9	4.5	
	ECZ		P	04	11	03.5		-0.2	2.75	62		5.1	4.2	
			S			38.5		0.9						
	COB		P	04	11	06.8	U	0.4	2.95	225		4.3	4.5	
			S			43		0.8						
	GPZ		S	04	12	29		-4.7*	5.13	204	4.5			
	NJZ		EP	04	11	50.5		0.7	6.22	216				
			S		12	56.5		-3.6						
	CIZ		S	04	13	37		0.7	7.72	132				

72/ 574

	H	M	S											
NOV 23	01	51	56.5	45.03S		167.73E		125 KM	SE	0.8	AVG MAG			4.1
			+- 0.5	0.02		0.03		4						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MSZ		IP	01	52	14.9	U	0.4	0.38	20				
			S			28		-0.4						
	MNW		IP	01	52	16.2	U	-0.8	0.76	186		4.7	4.7	
			S			30		-2.7*						
	ROX		IS	01	52	40.5		0.1	1.21	112			3.9	
	WPZ		P	01	52	28.7		0.4	1.81	155		4.3	4.4	
			S			52		-0.4						
	NJZ		IP	01	52	34.0	DSE	0.6	2.21	63		3.9	4.0	
			S		53	02.5		1.2						
	ONZ		S	01	53	02.5		0.2	2.26	92			3.9	
	GPZ		ES	01	53	37		-1.0	3.76	71	3.9			
	COB		EP	01	53	16		0.4	5.38	45		4.0	3.7	
			S		54	16		-0.9						
	MNG		EP	01	53	41		0.6	7.20	55				
			ES		55	00.5		-0.6						

72/ 575

	H M S										
NOV 24	06 17 16.7	39.75S	174.98E	12 KM	SE 1.4		AVG MAG		4.1		
	+- 0.3	0.02	0.02	R							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
CNZ	IPG	06 17 31.2	U	0.1	0.71	39					
	S*	39		-0.5							
TNZ	EP*	06 17 31.5		1.3	0.73	320					
	IPG	32.5		0.9							
	SG	42.5		1.0							
MNG	IPG	06 17 35.1	U	-0.9	0.95	156		4.6			
	SG	48		-0.8							
TRZ	IPG	06 17 45.0	D	-0.8	1.44	83		4.0	4.2		
	ESG	18 07		1.8							
	I	10									
WEL	P*	06 17 43.5		-0.6	1.54	186	3.7	4.3	4.4		
	S*	18 05.5		0.9							
KRP	PN	06 17 47.0	U	-0.9	1.88	14					
	PG	53		-1.7							
	SN	18 10.5		-0.4							
	SG	20		0.0							
TUA	EPN	06 17 47		-1.6	1.93	61		4.2	3.9		
	P*	53		2.2							
	PG	58		2.2							
	ESN	18 13		0.8							
COB	P*	06 17 52.5		-2.4	2.17	231		4.3	4.5		
	SN	18 18		0.0							
WTZ	P*	06 17 56.0		-2.2	2.36	42		3.5	3.2		
	S*	18 27		-2.3							
GNZ	EPG	06 18 10		0.5	2.61	66		4.2	4.1		
	ESN	31		1.9							
GPZ	SN	06 19 10		0.1	4.31	203	4.2				
MSZ	SN	06 20 20		1.4	7.18	225					
FELT WANGANUI (57) MM IV											

72/ 576

	H M S										
NOV 24	12 13 26,5	37.38S	176.70E	189 KM	SE 1.5		AVG MAG		3.8		
	+- 1.3	0.08	0.07	11							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
WTZ	S	12 14 11.5		-2.1	0.65	160		3.3	3.1		
KRP	P	12 13 56.9	D	1.1	1.07	239					
TUA	EP	12 13 59		-0.2	1.47	166			3.7		
	S	14 23.5		-0.9							
ECZ	EP	12 13 59		-0.4	1.50	103			3.9		
	ES	14 27		2.1							
GNZ	EP	12 14 01		0.2	1.64	141		4.0	4.4		
	IS	25.5		-1.8							
CNZ	P	12 14 06		1.1	2.03	206		3.6			
TRZ	S	12 14 41		3.8*	2.17	178			4.0		
MNG	P	12 14 19.5		-1.2	3.37	196		4.0	3.5		
	S	15 03		0.5							
WEL	P	12 14 29.5	U	-1.4	4.18	200	4.0	4.2	3.9		
	S	15 19		-1.6							
COB	S	12 15 36		0.8	4.82	219			3.6		

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	H M S										
NOV 25	01 31 12.8	32.81S	177.82W	12 KM	SE 2.8		AVG MAG		5.4		
	+- 2.2	0.11	0.14	R							
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
ECZ	PN	01 32 37		1.2	5.71	210		5.2	5.0		
	P*	56		4.4							
	EPG	33 08		-0.2							
	SN	43.5		3.9							
WTZ	PN	01 32 45		-3.9	6.68	218					
	SN	34 01		-1.8							
GNZ	PN	01 32 50		0.4	6.73	209					
	SN	34 07		3.0							
ONE	PN	01 32 56		1.3	7.11	243					

		P*		33 14		-1.7				
	TUA	EPN	01	32 56		-0.4	7.24	213		
		SN		34 20		3.8				
	KRP	PN	01	32 58		-1.1	7.45	225		
		SN		34 21		-0.1				
	TRZ	PN	01	33 05		-1.4	8.00	211		
		SN		34 36.5		2.3				
	CRZ	PN	01	33 11.5		3.9	8.09	256		
	CNZ	E(PN)	01	33 13		2.1	8.34	218		
		SN		34 42.5		0.3				
	MNG	PN	01	33 21.5		-4.3	9.46	213		
		SN		35 06.5		-2.4				
	WEL	SN	01	35 27		-2.0	10.32	213	5.9	
		EL		37 00						
	CIZ	SN	01	35 49		0.2	11.17	175		
	COB	SN	01	35 47		-2.2	11.19	220		
	GPZ	SN	01	36 30		-5.3	13.19	212	5.5	

	H M S									72/ 578
NOV 25	02 54 40.3	38.17S	174.43E	12 KM	SE	1.5	AVG MAG		4.0	
	+- 0.5	0.02	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IPG	02 55 00.2	DSW	1.5	0.91	75				
	SG	13		2.0						
	TNZ PG	02 55 01.5		0.5	1.02	182		3.7	4.0	
	SG	15		0.2						
	AUC PG	02 55 06.5	D	-0.8	1.33	12				
	SG	24		-1.4						
	CNZ PG	02 55 07.3	D	-0.4	1.35	140		4.3	4.6	
	SG	26		0.0						
	WTZ PG	02 55 21		-0.3	2.03	86		3.3		
	TUA PG	02 55 24		-1.4	2.23	108		4.0		
	MNG P*	02 55 25		-0.5	2.58	162		3.9	3.9	
	PG	31		-1.5						
	ES*	56 01		1.5						
	GNZ P*	02 55 31.5		1.2	2.86	101		4.2		
	WEL EPG	02 55 41		-2.5	3.13	175	3.7	4.0	4.1	
	S*	56 14		-1.9						
	SG	24		-1.7						
	COB EPN	02 55 31		1.5	3.20	204		3.8	3.9	
	ESN	56 09		2.4						
	ES*	19		0.9						
	GPZ SN	02 57 07.5		0.9	5.69	193	4.0			

	H M S									72/ 579
NOV 25	08 35 09.5	36.10S	179.52E	209 KM	SE	1.4	AVG MAG		4.3	
	+- 1.2	0.06	0.10	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ P	08 35 47.0	D	0.2	1.77	206		4.7	4.3	
	ES	36 14.5		-1.1						
	WTZ P	08 35 56.5		-0.9	2.76	226		4.5	4.1	
	S	36 32.5		-2.1						
	GNZ P	08 35 58		0.1	2.80	205		4.8	4.6	
	S	36 35		-0.4						
	TUA P	08 36 04.5		0.9	3.30	214		4.6	4.6	
	S	48		2.5						
	KRP P	08 36 08.7		0.5	3.67	239				
	TRZ P	08 36 14		1.1	4.05	211		4.1	4.3	
	S	37 06.5		4.5*						
	CNZ P	08 36 18.5		1.1	4.42	224		3.8	3.5	
	E	31								
	S	37 12.5		2.4						
	MNG P	08 36 30		-1.4	5.51	214		3.7	3.8	
	S	37 35		-0.0						
	CRZ (P)	08 36 35		-0.6	5.84	285				
	WEL S	08 37 54		-0.8	6.37	214	4.6			
	COB ES	08 38 16		0.0	7.28	225				
	GPZ S	08 39 00		-1.4	9.24	213	4.7			

	H	M	S								72/ 580
NOV 25	15	53	56.1	32.72S	177.59W	12 KM	SE	2.2	AVG MAG		5.1
		+-	2.0	0.09	0.12	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP*	15	55	36		-1.9	5.89	211		5.0	4.7
	EPG			52.5		-2.6					
	SN		56	32		4.9					
WTZ	PN	15	55	35		0.3	6.87	219			
	P*			59		4.2					
	SN		56	49		-1.6					
GNZ	PN	15	55	36		0.8	6.91	210			
	P*			54		-1.4					
	SN		56	53.5		2.1					
ONE	EPN	15	55	43		2.2	7.33	243			
	P*		56	01		-1.6					
TUA	EPN	15	55	41		-1.1	7.43	214			
	SN		57	07		3.1					
KRP	PN	15	55	45		-0.1	7.65	225			
	P*		56	09		0.9					
TRZ	EPN	15	55	51		-1.1	8.18	212			
	E		56	26.5							
	SN		57	22		0.2					
CNZ	EP*	15	56	16		-7.2*	8.53	219			
TNZ	EP*	15	56	35		0.9	9.16	223			
MNG	PN	15	56	11		-0.4	9.65	213			
	SN		57	55		-1.5					
WEL	SN	15	58	14		-2.5	10.51	213	5.3		
	EL	16	00	00							
CIZ	SN	15	58	34		0.2	11.25	176			
COB	SN	15	58	35		-2.0	11.39	220			
GPZ	SN	15	59	21		-1.7	13.37	212	5.3		

	H	M	S								72/ 581
NOV 25	19	40	55.5	32.81S	177.93W	12 KM	SE	2.3	AVG MAG		5.2
		+-	1.9	0.09	0.12	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	19	42	20		2.2	5.66	210		5.2	5.0
	EP*			38		4.6					
WTZ	PN	19	42	30.5		-0.2	6.62	217			
	SN		43	46		2.0					
GNZ	EPN	19	42	31		-0.6	6.69	208			
	PG		43	10		-0.7					
	SN			48		2.4					
ONE	EPN	19	42	37		0.8	7.03	243			
	P*			57		0.1					
TUA	PN	19	42	37		-1.4	7.19	212			
	EP*		43	02		2.3					
KRP	PN	19	42	39		-1.9	7.38	224			
	PG		43	19		-5.7*					
	SN		44	03		0.9					
TRZ	PN	19	42	46.5		-1.9	7.95	211			
	SN		44	16		0.3					
CRZ	EPN	19	42	51		2.0	8.00	256			
MNG	EPN	19	43	03.5		-4.2	9.41	212			
	SN		44	49		-1.4					
WEL	SN	19	45	08		-2.4	10.27	212	5.4		
COB	ESN	19	45	30		-0.4	11.13	219			
CIZ	SN	19	45	33		1.4	11.18	175			
GPZ	SN	19	46	13		-3.8	13.14	211	5.3		

	H	M	S								72/ 582
NOV 25	22	19	21.1	37.99S	176.79E	151 KM	SE	1.5	AVG MAG		4.1
		+-	1.1	0.05	0.04	9					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP	22	19	40.8	U	-0.8	0.16	87			
	IS			55		-2.3					
TUA	P	22	19	46		1.0	0.86	161			

	KRP	IP	22 19 47.0	DE	1.0	0.99	274				
		IS	20 06		0.8						
	GNZ	IP	22 19 48.2	U	0.5	1.17	124		4.9	4.4	
		S	20 07		-1.2						
	ECZ	P	22 19 50		-0.3	1.43	78		4.0	4.0	
		S	20 13		0.3						
	CNZ	P	22 19 53.4		1.8	1.55	218		3.8	3.5	
		E	20 21.5								
	TRZ	P	22 19 53		1.3	1.56	179		4.0	4.1	
		S	20 18		2.9						
	MNG	P	22 20 05.3	D	-1.6	2.81	201		4.5	3.8	
		S	41.5		-0.3						
	WEL	P	22 20 16.8	U	-0.7	3.64	205	4.0	4.2	4.0	
		S	21 00		-0.8						
	COB	S	22 21 17		-1.6	4.40	224			3.7	
	GPZ	S	22 22 03		-3.8*	6.50	208	4.3			

	H M S								72/ 583
NOV 26	01 52 57.5	39.08S	174.93E	238 KM	SE	1.7	AVG MAG		4.0
	+- 1.2	0.06	0.07	10					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ P	01 53 30		1.0	0.44	256			
	CNZ IP	01 53 30.8	D	1.7	0.49	104			
	I	52							
	S	55.5		1.9					
	KRP P	01 53 33.2		0.1	1.25	23			
	ES	59		-1.6					
	TRZ P	01 53 37.2	U	1.9	1.54	108		4.0	4.1
	S	54 05		0.5					
	MNG IP	01 53 37.5	U	1.8	1.59	165		4.6	4.6
	S	54 04.5		-0.8					
	TUA E	01 54 12			1.75	82			3.8
	WTZ P	01 53 38.0	D	-0.8	1.95	57		3.8	3.3
	ES	54 08		-2.7					
	WEL P	01 53 43		1.7	2.21	183	4.3	4.0	4.3
	S	54 15		-0.2					
	GNZ P	01 53 44.5	D	0.7	2.45	81		4.6	4.1
	S	54 18		-1.5					
	COB IP	01 53 46.5	U	1.0	2.62	219		4.5	3.6
	S	54 22		-0.9					
	GPZ S	01 55 09		-2.0	4.92	200	4.0		
	MJZ S	01 55 32		-1.8	5.94	213			2.9

	H M S								72/ 584
NOV 26	06 51 58.9	38.39S	176.20E	152 KM	SE	1.7	AVG MAG		4.0
	+- 1.0	0.05	0.05	8					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP IP	06 52 21.8		0.1	0.70	312			
	S	39		-0.4					
	WTZ IP	06 52 21.5	D	-0.5	0.75	57		3.4	3.3
	S	39		-0.9					
	TUA S	06 52 38		-3.3	0.86	119			
	CNZ P	06 52 25.0	U	1.4	0.95	212		4.1	3.9
	S	45		2.4					
	TRZ P	06 52 28.4		1.9	1.26	157		4.3	4.2
	S	50		2.4					
	GNZ P	06 52 30		1.5	1.45	101		3.7	4.2
	S	51		-0.1					
	TNZ P	06 52 32		1.8	1.63	240		3.3	
	ECZ P	06 52 35.5		1.3	1.98	70			3.8
	ES	53 00		-1.4					
	MNG IP	06 52 38.0	U	-0.0	2.29	194		4.8	3.9
	ES	53 07		-1.0					
	WEL P	06 52 47.3		-0.9	3.09	200	4.1	4.8	4.1
	S	53 25		-0.9					
	COB P	06 52 56		-1.3	3.79	224		3.7	4.2
	S	53 40		-2.1					
	MJZ S	06 54 53.5		-5.5*	7.06	216			

	H M S								72/ 585
NOV 26	09 35 43.5	40.07S	174.92E	12 KM	SE 1.2		AVG MAG		3.6
	+- 0.3	0.01	0.02	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG IPG	09 35 58.5	U	0.7	0.69	142		4.1	4.0
	SG	36 08		0.8					
	TNZ PG	09 36 03		-0.4	0.98	334		3.2	3.4
	SG	18		1.4					
	CNZ PG	09 36 02.5	D	-1.2	0.99	29		3.6	3.7
	SG	17		-0.2					
	E	22.5							
	WEL P*	09 36 06		0.5	1.22	186	3.0	3.5	3.8
	S*	22		0.1					
	COB P*	09 36 18		-0.1	1.95	238		3.6	3.5
	SN	40		0.4					
	S*	43		-0.9					
	KRP P*	09 36 23		0.8	2.19	13			
	S*	53		1.9					
	SG	57		-0.6					
	WTZ P*	09 36 27		-2.6	2.63	38			
	GNZ ESN	09 37 04		3.6*	2.79	60			
	MJZ ESN	09 37 56		-0.5	5.13	219			

	H M S								72/ 586
NOV 26	12 41 56.1	32.80S	177.72W	12 KM	SE 2.8		AVG MAG		5.7
	+- 2.2	0.10	0.14	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ PN	12 43 23		3.3	5.76	211		5.7	5.3
	P*	37		1.3					
	EPG	55		2.5					
	ESN	44 29		4.9					
	WTZ PN	12 43 30.5		-2.4	6.74	218			
	EP*	48		-4.5					
	GNZ PN	12 43 32		-1.5	6.78	209			
	EP*	50		-3.2					
	SN	44 50		1.6					
	ONE PN	12 43 41		2.0	7.19	243			
	EPG	44 18		-3.5					
	TUA PN	12 43 41		0.6	7.30	213			
	SN	45 03		2.2					
	KRP PN	12 43 43		-0.2	7.51	225			
	P*	44 09		3.2					
	TRZ PN	12 43 50		-0.4	8.05	212			
	EP*	44 15		-0.0					
	ESN	45 17.5		-1.2					
	CRZ PN	12 43 54		2.1	8.17	256			
	EP*	44 20		3.0					
	CNZ PN	12 43 53		-1.9	8.40	219			
	SN	45 31		4.1					
	TNZ EPN	12 44 04		0.7	9.03	223			
	MNG PN	12 44 06		-3.7	9.52	213			
	ISN	45 51		-2.4					
	WEL SN	12 46 10		-3.5	10.38	213	6.0		
	EL	47 00							
	CIZ SN	12 46 34		1.9	11.17	176			
	COB SN	12 46 32		-1.9	11.25	220			
	MJZ SN	12 47 45		-3.3	14.49	216			

	H M S								72/ 587
NOV 26	20 11 12.8	40.49S	175.93E	12 KM	SE 1.4		AVG MAG		3.8
	+- 0.4	0.02	0.02	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG IPG	20 11 22.5	D	1.4	0.40	251			
	SG	29		2.2					
	TRZ P*	20 11 33		-0.3	1.14	35		3.8	4.0
	S*	49		0.4					
	SG	52.5		1.2					

	WEL	EPG	20	11	37		-0.5	1.22	229	3.0	3.9	3.8
		SG			51.5		-2.4					
	CNZ	EP*	20	11	35.3	U	-1.4	1.33	345		4.3	4.3
		S*			52		-2.5					
	TNZ	PN	20	11	42.3	D	-0.6	1.79	316		3.7	3.5
		PG			49		-0.1					
		S*		12	08		-0.3					
		SG			13		-0.3					
	TUA	ES*	20	12	13		1.2	1.91	29			3.8
	GNZ	SN	20	12	20		-0.4	2.43	41			3.9
	COB	EPN	20	11	55		1.8	2.54	255			4.0
		EP*		12	00		2.7					
		SN			22		-1.5					
	KRP	PN	20	11	53.5		-0.3	2.58	352			
		P*			59.5		1.4					
		S*		12	32		-0.1					
	WTZ	SN	20	12	22		-3.5*	2.62	18			3.2
	MJZ	SN	20	13	30.5		-1.3	5.38	228			
		S*			57		0.8					
	CIZ	SN	20	13	58		-1.1	6.53	124			

	H	M	S									72/ 588
NOV 27	02	23	50.2	32.81S		177.90W		12 KM	SE	2.6	AVG MAG	5.1
		+-	2.5	0.12		0.14		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EPN		02	25	14		1.3	5.68	210		4.9	4.7
		P*				32		3.6					
	WTZ	PN		02	25	24		-1.7	6.64	218			
		SN			26	41		1.8					
	GNZ	PN		02	25	26		-0.5	6.70	209			
		P*				53		7.0*					
		SN			26	42.5		1.8					
	TUA	ESN		02	26	56		3.2	7.21	212			
	KRP	EPN		02	25	34		-1.9	7.40	225			
		P*			26	00		2.0					
		SN			27	00		2.6					
	CRZ	PN		02	25	45		0.9	8.02	256			
	MNG	PN		02	26	01		-1.7	9.43	212			
		SN			27	42		-3.5					
	WEL	SN		02	28	02		-3.6	10.29	213	5.5		
	COB	SN		02	28	24		-1.6	11.15	220			
	CIZ	SN		02	28	27		0.7	11.18	175			
	MJZ	SN		02	29	37		-3.3	14.40	216			

	H	M	S									72/ 589
NOV 27	04	27	18.2	32.74S		177.69W		12 KM	SE	2.4	AVG MAG	5.3
		+-	2.0	0.10		0.13		R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EPN		04	28	45		2.3	5.83	211		5.2	5.0
		EP*			29	00		1.1					
		EPG				13		-3.0					
		ESN				50		2.2					
	WTZ	PN		04	28	54		-1.9	6.80	218			
		P*			29	14		-1.7					
		ESN			30	12		0.9					
	GNZ	PN		04	28	56		-0.5	6.85	209			
		SN			30	14		1.9					
	TUA	SN		04	30	26		1.6	7.37	213			
	KRP	EPN		04	29	05		-1.1	7.58	225			
		P*				25		-3.9					
		SN			30	31		1.5					
	TRZ	EPN		04	29	14		0.7	8.12	212			
		ESN			30	42		-0.4					
	CRZ	PN		04	29	16		1.4	8.21	256			
	GNZ	PN		04	29	20		2.2	8.46	218			
		P*				48		3.9					
		ESN			30	55		4.5					
	MNG	PN		04	29	31		-1.7	9.58	213			

	SN		31 14		-3.1			
WEL	SN	04	31 35		-2.1	10.44	213	5.7
CIZ	SN	04	31 56		0.5	11.23	176	
COB	SN	04	31 56		-1.5	11.32	220	
MJZ	SN	04	33 08		-3.9	14.56	216	

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	H	M	S								
NOV 27	07	30	36.5	44.61S	168.00E	12 KM	SE	1.0	AVG MAG		4.1
	+-		0.4	0.02	0.02	R					
				H	M S	DIR RES	DIST	AZ	W-A	W P	W S
	MSZ	IPG		07	30 39.5	0.3	0.09	224			
	MNW	P*		07	30 58.7	0.6	1.20	193		4.2	4.4
		PG			31 00	-0.9					
		SG			17	-0.1					
	ROX	PG		07	31 01.4	-0.9	1.28	133		4.2	4.3
		SG			21	1.4					
	MJZ	P*		07	31 09.5	-0.2	1.88	71		3.9	4.0
		PG			12.5	-2.0					
		S*			35	0.5					
		SG			38.5	-1.3					
	OMZ	P*		07	31 13.5	-0.4	2.12	104		4.4	4.3
		ESG			48	-0.1					
	WPZ	P*		07	31 14	-0.1	2.14	164		3.8	3.9
		S*			43	0.7					
	COB	PN		07	31 49.5	0.2	4.95	46		4.0	3.8
		SN			32 45.5	0.5					
		SG			33 25	1.7					
	MNG	PN		07	32 19	4.8*	6.81	57			

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	H	M	S								
NOV 27	13	45	53.1	38.05S	177.83E	12 KM	SE	2.4	AVG MAG		3.9
	+-		0.7	0.04	0.04	R					
				H	M S	DIR RES	DIST	AZ	W-A	W P	W S
	GNZ	IPG		13	46 05.2	D -0.4	0.61	165		4.4	4.6
		SG			16.5	2.6					
	WTZ	IPG		13	46 08.2	D 1.4	0.67	276		4.1	4.2
		SG			18.5	2.7					
	ECZ	IPG		13	46 06.0	D -0.9	0.67	58		4.7	4.3
		SG			18	1.9					
	TUA	PG		13	46 11	-0.9	0.92	215		3.6	3.8
		SG			29	4.7					
	TRZ	PG		13	46 28	0.6	1.69	207		3.6	
	KRP	PN		13	46 22	-1.5	1.81	273			
		EPG			28	-1.8					
		SN			45.5	-0.4					
	CNZ	P*		13	46 30	-0.5	2.12	237		3.5	3.3
		PG			34	-2.0					
	MNG	PN		13	46 39	-2.6	3.14	215		3.2	3.0
		PG			53	-3.6					
		SG			47 38	-1.0					
	COB	EP*		13	47 23	3.8	4.96	231			
		EPG			36	2.5					
		ESN			48 03	0.9					
		SG			37	-3.5					
	CIZ	SN		13	48 55	-1.9	7.26	146			

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	H	M	S								
NOV 27	17	52	50.8	35.09S	178.58E	296 KM	SE	1.6	AVG MAG		4.8
	+-		1.1	0.06	0.07	8					
				H	M S	DIR RES	DIST	AZ	W-A	W P	W S
	ECZ	P		17	53 42	-0.8	2.60	181		4.5	4.9
		S			54 22.5	-0.8					
	WTZ	P		17	53 48.3	0.0	3.16	203		4.9	4.5
		S			54 33	-0.1					
	ONE	P		17	53 51	-1.0	3.51	258			
	GNZ	IP		17	53 52.5	D -0.1	3.57	187		5.3	5.4
		S			54 40	-0.9					
	KRP	P		17	53 56	1.6	3.74	220			

		S		54 50	5.9*					
	TUA	P	17	53 56	0.0	3.88	197		4.6	4.9
		S		54 47.5	0.6					
	TRZ	P	17	54 04.3	-0.0	4.67	197		4.5	5.1
		S		55 04	1.2					
	CNZ	P	17	54 07.5	1.6	4.76	210		4.1	4.3
		S		55 08	3.3					
	TNZ	P	17	54 15	3.0	5.29	218		3.9	
	MNG	P	17	54 19	-2.0	6.04	203			
		S		55 28	-3.7					
	WEL	P	17	54 29.7	-1.5	6.87	205	5.3		
		S		55 49	-1.0					
	COB	P	17	54 39	-0.6	7.55	216			
		S		56 05	0.0					
	CIZ	S	17	56 52	1.3	9.61	159			
		E		57 03						
	GPZ	S	17	56 53	-0.5	9.74	206	5.3		
	MJZ	S	17	57 18	-0.6	10.86	213			
	MSZ	S	17	57 57.5	0.8	12.58	217			

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	H M S								
NOV 28	06 58 29.2	35.28S	178.48E	305 KM	SE	1.2	AVG MAG		4.1
	+- 1.1	0.07	0.12	10					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	06 59 21		0.8	2.41	179		4.0	4.2
	S	07 00 01.5		1.6					
GBZ	P	06 59 21		-1.1	2.61	248		3.8	
WTZ	P	06 59 25		-0.3	2.95	204		4.0	3.8
	S	07 00 09		-0.1					
GNZ	P	06 59 28.5		-1.1	3.38	186		4.6	4.6
	S	07 00 16		-0.7					
KRP	P	06 59 33		1.7	3.55	221			
TRZ	S	07 00 38		0.2	4.46	197			4.3
CNZ	E	07 00 46			4.56	210			3.5
MNG	P	06 59 56.2		-1.1	5.83	203		3.9	3.8
	S	07 01 05		-1.3					
WEL	S	07 01 23		-1.3	6.67	205	4.7		
COB	E	07 00 18			7.35	216			
	S	01 40		0.7					
GPZ	S	07 02 29		1.5	9.54	206			
MSZ	P	07 01 18		0.6	12.38	218			

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	H M S								
NOV 28	09 54 19.6	32.44S	179.36W	378 KM	SE	2.3	AVG MAG		5.3
	+- 1.6	0.10	0.15	11					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	09 55 49		2.3	5.52	198		5.2	5.3
	E	53.5							
	S	56 57		2.0					
	I	57 02							
GBZ	P	09 55 49.0		0.4	5.70	227		4.5	
ONE	P	09 55 54		-0.0	6.18	236	5.1		
	S	57 09		0.7					
WTZ	P	09 55 54.0	U	-1.3	6.29	207			
	S	57 09		-1.5					
GNZ	P	09 55 57.7		-0.6	6.55	198			
	S	57 18		2.1					
KRP	P	09 56 02.5		0.5	6.89	216			
	S	57 25		2.1					
CRZ	P	09 56 00		-2.8	6.95	251			
TUA	S	09 57 23		-1.4	6.96	203			
TRZ	P	09 56 10		-2.1	7.75	202			
	S	57 42.5		1.8					
CNZ	P	09 56 15		1.0	7.91	210			
	ES	57 46		1.8					
TNZ	P	09 56 23		2.9	8.44	215			
MNG	P	09 56 25		-3.6	9.16	205			
	S	58 07.5		-3.0					

	WEL	P	09 56 38		-0.6	10.00	206	5.6	
		S	58 27		-1.5				
	COB	P	09 56 46		-1.0	10.71	214		
		S	58 43		-0.6				
	CIZ	E	09 57 19			11.71	170		
		S	59 29		24.1*				
	GPZ	S	09 59 26		-3.5	12.88	207	5.8	
	MJZ	S	09 59 51		-2.1	14.02	212		
	MSZ	P	09 57 46		3.2	15.73	215		
		ES	10 00 31		4.6				

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	H M S							
NOV 28	23 28 43.0	38.60S	176.09E	161 KM	SE	2.3	AVG MAG	4.6
	+- 1.0	0.05	0.05	8				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	P	23 29 03		-1.5	0.03	158			
CNZ	IP	23 29 07.7	U	0.7	0.73	215		4.6	4.5
	S	25.5		0.0					
KRP	P	23 29 07.1	D	-0.4	0.80	327			
	IS	21		-3.3					
TUA	P	23 29 08.5		0.7	0.86	104		5.1	5.2
	S	28		1.0					
WTZ	IP	23 29 08.0	D	-0.4	0.94	49		4.4	4.2
	S	25		-3.1					
TRZ	P	23 29 12		2.1	1.11	149		5.0	4.9
	S	31		0.4					
TNZ	P	23 29 16.0	D	2.8	1.45	246		4.6	3.4
	S	40		3.6					
GNZ	P	23 29 15.8	D	2.0	1.52	92		5.2	5.0
	S	36		-1.5					
MNG	IP	23 29 21.5	D	1.6	2.07	193		5.0	4.9
	ES	48		-0.3					
ECZ	P	23 29 23		2.2	2.14	66		5.0	4.6
	S	30 02		12.2*					
GBZ	EP	23 29 26		1.7	2.43	348		3.7	
WEL	P	23 29 31.5	U	1.7	2.87	200	4.6	4.8	4.7
	S	30 05.5		-0.1					
COB	P	23 29 40		1.1	3.58	225		4.4	4.3
	S	30 23		1.1					
MJZ	S	23 31 36		-2.9	6.84	216			
OMZ	S	23 31 54		-1.2	7.53	209			
CIZ	ES	23 31 57		-2.1	7.69	136			
	E	32 01							
	E	04							
MSZ	S	23 32 17		-3.9	8.61	223			

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	H M S							
NOV 29	06 33 01.0	41.28S	173.63E	33 KM	SE	1.8	AVG MAG	4.1
	+- 0.4	0.03	0.03	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P*	06 33 14.9	D	0.0	0.71	286			
	S*	26		1.1					
WEL	P*	06 33 19		1.5	0.86	90	4.0	3.9	4.7
	S*	32		2.7					
	I	35							
MNG	IPN	06 33 25.7	D	0.2	1.55	65		4.1	4.2
	P*	27.5		-1.4					
	S*	48.5		-1.2					
TNZ	PN	06 33 34.5		0.5	2.17	16		3.9	4.4
	SN	34 00		1.0					
CNZ	IPN	06 33 39.3	D	0.2	2.55	36		4.5	4.6
	EP*	49		3.1					
	ESN	34 10		1.9					
TRZ	EPN	06 33 43		-2.2	2.99	56		3.6	3.9
	P*	50		-3.4					
	ESN	34 18		-0.9					
	S*	24		-8.5*					
MJZ	EPN	06 33 52.5		-0.7	3.57	220		3.7	3.5

		SN		34	32.5		-0.6				
		I			35						
	TUA	SN	06	34	37		1.6	3.66	49		4.2
	KRP	PN	06	33	54	U	-0.5	3.66	24		
		SN		34	34.5		-0.9				
		ES*			56		3.1				
	WTZ	ESN	06	34	47		-1.2	4.19	39		3.5
	OMZ	EPN	06	34	02		-0.8	4.27	207		3.9
		ESN			48		-2.2				
	GNZ	SN	06	34	50		-0.4	4.28	53		4.5
	MSZ	PN	06	34	18		0.1	5.39	229	4.1	3.9
		SN		35	17		-0.1				
	ONE	SN	06	35	17		-3.6	5.53	6	4.0	
	MNW	SN	06	35	41		2.7	6.27	222		
	CIZ	SN	06	36	13		0.4	7.71	114		

	H	M	S									72/ 597
NOV 29	21	34	52.2	39.03S	174.95E	238 KM		SE	1.5	AVG MAG		4.6
		+-	0.7	0.05	0.05	6						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ		P	21	35	25.5		1.7	0.47	251			
			S			49		0.8					
	CNZ		IP	21	35	25.6	D	1.8	0.50	110			
			ES			49		0.6					
	KRP		IP	21	35	27.9	DSW	0.4	1.20	23			
			S			53		-1.8					
	TRZ		IP	21	35	32.3	U	2.2	1.55	110		4.7	4.8
			S			59.5		0.2					
	MNG		IP	21	35	32.8	U	2.0	1.64	166		4.9	4.8
			I			54							
			S		36	00		-0.6					
	TUA		P	21	35	32		0.3	1.74	83		4.8	4.4
			S		36	01		-1.1					
	WTZ		IP	21	35	32.5	D	-0.7	1.91	57		4.4	3.9
			ES		36	02		-2.9					
	WEL		P	21	35	38.3		1.8	2.25	183	4.4	4.4	4.5
			S		36	11		0.2					
	GNZ		P	21	35	39		0.7	2.43	82		5.1	4.6
			S		36	12		-2.0					
	COB		IP	21	35	41.9	U	1.1	2.66	219		4.9	4.3
			S		36	18		-0.5					
	ECZ		P	21	35	46		0.1	3.13	66		5.2	4.4
			S		36	28		0.5					
	GPZ		P	21	36	08.5		0.6	4.97	200	5.8		
			S		37	05.5		-1.3					
	MJZ		P	21	36	21.5		1.0	5.98	213		3.6	3.8
			S		37	27		-2.5					
	OMZ		S	21	37	48		1.4	6.74	205			
	ROX		S	21	38	06.5		1.5	7.67	211			
	MSZ		P	21	36	41		-1.3	7.69	221			
			S		38	06		-2.6					
	MNW		S	21	38	31.5		1.2	8.65	216			

	H	M	S									72/ 598
NOV 30	12	22	06.9	36.29S	178.73E	33 KM		SE	3.0	AVG MAG		3.7
		+-	2.5	0.12	0.10	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		PN	12	22	25		-4.4	1.40	186		4.1	4.1
			S*			53		1.8					
	WTZ		PN	12	22	41		0.9	2.19	219		3.6	3.2
			S*		23	17		2.4					
	GNZ		PN	12	22	44		0.8	2.41	193		4.1	4.0
			SN		23	13		2.2					
	KRP		PN	12	22	52.5		0.8	3.03	237			
			SN		23	27		1.3					
	CNZ		PN	12	23	07		4.2	3.84	220		3.5	3.4
			SN			57		11.3*					
	MNG		PN	12	23	18		-0.8	5.01	210		3.5	3.5

		P*			30		-3.9				
		SN		24	16		2.0				
		S*			35		-4.3				
	COB	SN	12	24	51		-3.5	6.70	223		
	CIZ	E	12	25	33			8.46	156		
		SN			37		0.5				

72/ 599

	H	M	S										
DEC 01	07	36	12.8	38.36S		175.77E		205 KM	SE	1.2	AVG MAG		4.8
		+-	0.5	0.02		0.03		5					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	P		07	36	42		1.7	0.38	136			
	KRP	P		07	36	41.7		1.2	0.47	337			
		ES			37	03		1.1					
	CNZ	P		07	36	43.8		1.5	0.86	192			
		E			37	08							
	WTZ	P		07	36	42.9		-0.6	1.03	69			
		E			37	02							
	TUA	P		07	36	45.2		0.7	1.17	113			
		E			37	03							
		S				08.0		-1.0					
	TRZ	P		07	36	48.0		1.3	1.45	146			
		ES			37	14		1.0					
	GNZ	P		07	36	50.3		0.3	1.79	100		5.5	
		I			37	09							
		S				16.3		-2.1					
	GBZ	P		07	36	53.3		-0.3	2.15	354		4.2	3.6
		ESN			37	24		-1.0					
	MNG	P		07	36	55.2		0.3	2.27	186			
		ES			37	26		-1.3					
	ECZ	P		07	36	54.8		-0.3	2.29	74		5.5	5.3
		S			37	26.5		-1.3					
	ONE	EP		07	37	01		-0.1	2.81	336	4.5	3.2	
		S				39.0		0.5					
	WEL	P		07	37	03.1		-0.4	3.02	194	5.2	5.4	5.3
		S				42.0		-0.7					
	COB	EP		07	37	09.0		-1.4	3.59	220		4.7	5.1
		S				54.5		-0.4					
	OMZ	EP		07	38	01		-1.0	7.62	207			
	CIZ	S		07	39	39		2.0	8.04	136			
	MSZ	EP		07	38	15		-0.0	8.62	221			
		S			39	44		-6.5*					

72/ 600

	H	M	S										
DEC 02	07	40	45.3	44.79S		169.60E		12 KM	SE	0.8	AVG MAG		4.3
		+-	0.3	0.02		0.02		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ROX	PG		07	41	00.0		0.0	0.72	196		4.0	
		ESG				10		0.2					
	OMZ	PG		07	41	04.0		-1.1	0.98	107		4.8	4.7
		I				05.3							
		SG				18.8		0.5					
	HJZ	PG		07	41	05.5	U	-0.3	1.01	38			
		SG				20.0		0.5					
	MSZ	PG		07	41	10.0		0.2	1.21	275			
	MNW	E		07	41	18.0			1.72	234		4.4	4.1
		EPG				19.0		-1.1					
		SG				43.3		0.2					
	WPZ	P*		07	41	21.0		1.3	1.95	195		4.5	4.1
		E				43.3							
		ES*				45		-0.5					
	CHR	E		07	42	15			2.51	61			
	COB	E		07	41	57			4.35	33		3.9	
	MNG	E		07	42	22			6.01	48			

	H	M	S									72/ 601
DEC 02	15	43	05.9	38.97S	175.68E	12 KM	SE	1.5	AVG MAG			3.8
		+-	0.4	0.02	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		PG	15	43	10.3		-1.1	0.25	205			
	WNZ		E	15	43	18			0.47	44			
	TNZ		EPG	15	43	25		-1.9	1.04	258		3.6	3.5
			SG			42		1.0					
	KRP		PG	15	43	25.8		-1.5	1.05	354		3.6	4.0
			SG			40.3		-0.7					
	TRZ		PG	15	43	26.8		-0.5	1.06	124		4.0	3.7
			E			50							
	TUA		PG	15	43	28.2		-1.1	1.16	82		4.0	3.9
			SG			45.5		0.5					
	WTZ		EP*	15	43	33.0		1.7	1.42	46		3.4	
			PG			36.0		1.3					
	MNG		P*	15	43	35.4		0.2	1.65	185		4.0	3.5
			IPG			37.1		-2.2					
			ESG		44	00		-1.6					
	GNZ		EPG	15	43	44.2		0.8	1.86	81		4.2	
			E			46.2							
			E			49.8							
	WEL		P*	15	43	49.8		1.6	2.41	197		3.9	
			ES*		44	21		0.9					
			E			25							
	COB		E	15	43	57			3.10	226		3.8	3.6
			EP*		44	00		0.1					
			ES*			43		2.4					

	H	M	S									72/ 602
DEC 03	02	39	57.2	38.92S	175.67E	12 KM	SE	1.4	AVG MAG			4.6
		+-	0.4	0.02	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		PG	02	40	02.0		-1.6	0.30	198			
	WNZ		E	02	40	08.0			0.44	50			
			ESG			13		0.4					
	KRP		PG	02	40	17.0		-0.5	1.00	354			
			ESG			30.5		-0.5					
	TNZ		PG	02	40	17.2		-1.1	1.04	255		4.3	
			SG			34.2		1.8					
	TRZ		PG	02	40	18.8		-0.7	1.10	126		4.7	
	TUA		PG	02	40	19.6		-1.2	1.16	85		4.8	4.7
			SG			36.8		0.2					
	WTZ		PG	02	40	24.7		-0.8	1.39	48		4.1	
			E			26.8							
	MNG		IP*	02	40	27.0		-0.5	1.70	185		4.9	
			PG			29.7		-2.1					
	GNZ		EP*	02	40	32		1.8	1.86	82		5.2	
			PG			35.5		0.6					
	WEL		E	02	40	38.5			2.46	196	4.0	4.6	4.4
			IP*			41.0		0.5					
			E		41	13							
			ES*			15		2.1					
	ECZ		EPG	02	40	51		1.7	2.57	63		4.7	
	GBZ		E	02	40	49.0			2.70	357			
			I			53.0							

	H	M	S									72/ 603
DEC 05	14	57	20.6	34.59S	179.64E	248 KM	SE	1.5	AVG MAG			5.2
		+-	1.1	0.06	0.03	12						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		P	14	58	13.2		-1.5	3.12	196		5.7	5.4
			I			14.8							
			ES			59		2.3					
	GBZ		P	14	58	21.0		-0.6	3.72	245		4.7	
	WTZ		EP	14	58	23.0		-0.9	3.92	212		5.2	
			I			24.2							

GNZ	P	14	58	24.2	-2.4	4.15	198		5.3	5.3
	E			26.8						
	S		59	16.0	-2.0					
ONE	EP	14	58	30.5	0.3	4.45	254			
TUA	P	14	58	32.0	0.4	4.56	205		5.1	5.2
	E		59	31						
KRP	P	14	58	34.3	2.0	4.62	225		4.6	
TRZ	EP	14	58	41.0	-0.2	5.35	204		5.0	
CNZ	P	14	58	45.8	1.9	5.56	215		5.0	
	I			53.2						
CRZ	P	14	58	46.8	0.6	5.75	271		4.6	
MNG	EP	14	58	57.3	-1.2	6.77	208			
	I		59	00.2						
	ES	15	00	18	2.0					
WEL	EP	14	59	09	-0.8	7.62	209	5.6		
	ES	15	00	35	-0.4					
COB	EP	14	59	19	-0.7	8.39	218			
CIZ	EP	14	59	38	1.7	9.70	164			
	I			43.2						
	ES	15	01	23	0.2					
GPZ	ES	15	01	40	-0.9	10.49	209	5.4		

	H	M	S							72/ 604
DEC 05	23	52	51.8	38.96S	175.70E	12 KM	SE	1.3	AVG MAG	4.2
	+-		0.3	0.02	0.02	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	23	52	57.0		-0.7	0.27	206			
KRP	PG	23	53	12.0		-1.0	1.04	353		4.4	4.0
	SG			28.6		1.5					
TNZ	PG	23	53	12.3		-0.9	1.05	257		4.2	4.3
	SG			28.8		1.4					
TRZ	PG	23	53	13.0		-0.3	1.06	125		4.3	
TUA	EPG	23	53	14.0		-1.1	1.15	83		4.4	4.2
	ISG			31.8		1.2					
	E			37.0							
WTZ	PG	23	53	19.0		-1.3	1.41	47		3.8	
MNG	P*	23	53	22.1		0.7	1.67	186		4.6	4.1
	IPG			24.0		-1.6					
	ES*			45		1.5					
WEL	EP*	23	53	34.5		-0.0	2.43	197	3.7	4.3	4.3
ECZ	EP*	23	53	37		0.0	2.57	61		4.4	
	EPG			45		1.1					
GBZ	PG	23	53	46		-1.3	2.74	356		4.0	
COB	EPN	23	53	42		2.1	3.11	226		4.3	4.1
	IP*			46.8		0.6					
	ES*		54	25		-2.0					

	H	M	S							72/ 605
DEC 06	06	01	12.4	45.02S	167.41E	33 KM	SE	1.0	AVG MAG	4.1
	+-		0.7	0.02	0.05	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	P	06	01	21.6		-0.9	0.50	46			
MNW	P	06	01	26.9		0.6	0.78	169		4.1	4.4
	S			37.7		1.2					
ROX	P	06	01	34.8		-0.3	1.42	109		4.1	4.1
	S			52.2		-0.1					
WPZ	EP	06	01	41.4		-0.7	1.93	149		3.8	4.1
	S		02	04.2		-0.2					
MJZ	P	06	01	48.0		-0.5	2.42	66		3.9	
	ES		02	16.3		0.1					
ONZ	P	06	01	48.8		-0.9	2.48	92		4.5	
COB	P	06	02	31.2		-0.0	5.53	47		4.2	4.1
	S		03	34		1.9					
MNG	EP	06	03	02		5.8*	7.38	56			

72/ 606

	H	M	S										
DEC 07	05	58	04.5	31.39S	178.65W	33 KM	SE	3.2	AVG MAG		6.6		
		+-	2.6	0.14	0.20	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		05	59	39		-0.1	6.70	199			
		S		06	01	01		8.9*					
	GBZ	P		05	59	44.0		2.8	6.86	224			
	WTZ	EP		05	59	47.5		-2.2	7.49	207			
		I				53							
		S		06	01	15		3.9					
	GNZ	EP		05	59	50		-2.9	7.73	200			
		S		06	01	20		3.2					
	CRZ	P		05	59	58.5		3.4	7.89	245			
	KRP	P		05	59	58.5		0.9	8.09	215			
		E		06	00	01.5							
	TRZ	EP		06	00	09		-0.0	8.94	203			
		S			01	47		1.3					
	CNZ	P		06	00	11		-0.4	9.12	210			
		ES			01	56		5.1					
	MNG	E		06	00	20			10.36	206			
		IP				25		-2.8					
		S			02	12		-7.2					
	WEL	E		06	00	35			11.21	206	6.6		
		S			02	37		-2.0					
	COB	E		06	00	53			11.91	213			
		S			02	54		-1.4					
	CIZ	E		06	01	04			12.65	173			
		S			03	15		2.4					
	MJZ	EP		06	01	31		1.0	15.22	211			
		S			04	08		-3.3					
	MSZ	P		06	01	50.5		-0.4	16.93	215			
		S			04	47		-2.3					

72/ 607

	H	M	S										
DEC 07	16	12	11.7	39.53S	175.77E	12 KM	SE	1.4	AVG MAG		4.1		
		+-	0.3	0.02	0.02	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	PG		16	12	20.4		1.0	0.37	332			
	TRZ	EP*		16	12	26.2		-0.5	0.82	92		4.3	4.7
		IPG				28.0		-0.4					
		SG				42.5		3.0*					
	MNG	IP*		16	12	30.0		-1.8	1.11	191		4.6	4.0
		ES*				47		0.2					
	TNZ	PG		16	12	33.3		-0.8	1.13	287		3.8	3.8
		SG				50.5		0.7					
	TUA	EP*		16	12	35.0		0.1	1.29	57		4.4	4.3
		IPG				36.1		-1.8					
		ESG				54		-1.4					
	KRP	EP*		16	12	42.0		1.7	1.61	354		3.8	
		EPG				46.0		1.7					
		ES*			13	02		0.3					
		ESG				05.5		-0.5					
	WTZ	EP*		16	12	41		-2.8	1.81	32		3.7	
		PG				46.5		-1.9					
	WEL	PN		16	12	42.3		-1.2	1.92	203	3.6	4.3	
		IP*				44.8		-0.8					
		E			13	07							
		ES*				12		1.1					
	GNZ	EP*		16	12	48		1.6	1.96	64		4.2	
		IPG				53.3		1.9					
		E			13	09.5							
	COB	EPN		16	12	56.0		0.4	2.79	235		4.0	4.0
		EP*			13	00.8		0.2					
		E				33							

FELT MOAWHANGO (58), TAIHAPE (58) MM IV

72/ 608

	H	M	S										
DEC 07	20	37	43.5	38.93S	175.74E	12 KM	SE	1.5	AVG MAG	3.5			
		+-	0.6	0.03	0.04	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		PG	20	37	48.8		-1.3	0.31	209			
	KRP		EPG	20	38	03.9		-0.3	1.02	351		3.6	
			E			05.5							
			SG			18		0.1					
			I			20							
	TNZ		PG	20	38	04.0		-1.6	1.09	256		3.4	3.7
			SG			20.3		-0.0					
	TUA		E	20	38	09.5			1.11	84			
	WTZ		EPG	20	38	11		-0.1	1.36	46		3.3	
			E			13							
	MNG		P*	20	38	14.1		0.5	1.70	187		3.6	3.4
			PG			15.9		-2.0					
			S*			36.5		0.4					
	GNZ		E	20	38	27			1.81	82			
	COB		EPN	20	38	35		2.9	3.16	226			
			EP*			40		1.4					

LARGEST SHOCK OF A SWARM NEAR TURANGI (40). SMALLER SHOCKS AT 19H 55M, 20H 58M, 21H 30M, 22H 01M, 22H 46M AND 22H 53M

72/ 609

	H	M	S										
DEC 07	22	52	55.4	38.95S	175.73E	12 KM	SE	1.5	AVG MAG	3.1			
		+-	0.7	0.03	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		PG	22	53	01.2		-0.3	0.28	210			
			ESG			04.0		-1.6					
	KRP		EPG	22	53	16.0		-0.5	1.04	352		3.1	
			E			17.8							
			SG			31		0.4					
	TNZ		SG	22	53	32.5		0.7	1.07	257			3.1
	MNG		EP*	22	53	26.0		0.9	1.67	186		3.4	2.9
			IPG			27.7		-1.6					
			ES*			49.5		2.2					

NOT PART OF THE TURANGI SWARM

72/ 610

	H	M	S										
DEC 09	08	35	23.6	39.69S	177.01E	33 KM	SE	1.0	AVG MAG	3.6			
		+-	0.9	0.05	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		IP	08	35	29.1		-1.4	0.20	314			
			S			35.6		0.2					
	TUA		ES	08	35	51		0.5	0.89	7			3.5
	CNZ		P	08	35	43.4		-0.3	1.23	293		3.9	3.8
			S			59.0		0.2					
	GNZ		E	08	35	53			1.31	37			
			E		36	04							
	MNG		EP	08	35	48		0.7	1.49	231		3..	
			E			55							
	TNZ		E	08	36	02.3			2.10	283			
	KRP		E	08	36	00			2.11	327			

72/ 611

	H	M	S										
DEC 09	12	34	37.5	38.70S	175.71E	171 KM	SE	1.6	AVG MAG	3.9			
		+-	1.3	0.05	0.05	9							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		IP	12	35	03.1		1.6	0.52	194			
			ES			21		1.1					
	KRP		P	12	35	03.2		0.3	0.78	350		3.2	
			S			21.3		-1.2					
	TUA		E	12	35	11			1.13	96			
			S			26.5		-0.7					
	TNZ		ES	12	35	29		1.5	1.15	244			3.2
	TRZ		P	12	35	08.4		2.1	1.21	135		3.8	4.0
			S			30.5		2.0					

	WTZ	P	12	35	06.3		-0.1	1.23	55	3.2	3.6
		S			27		-1.7				
	GNZ	P	12	35	13.5		1.3	1.81	89	4.3	4.3
		S			37.5		-1.4				
	MNG	IP	12	35	14.2	U	0.7	1.93	185	4.6	4.0
		S			39.2		-2.0				
	WEL	P	12	35	22.5		-0.1	2.69	195	3.9 3.9	4.1
		S			55.2		-2.0				
	COB	S	12	36	09.5		-1.4	3.31	223		4.1

72/ 612

	H M S										
DEC 09	12 56 26.3	38.97S	175.66E	12 KM	SE 1.6	AVG MAG 2.9					
	+- 0.5	0.02	0.04	R							
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	PG	12	56	31.8		0.0	0.25	200		
		SG			34.2		-1.2				
	TNZ	E	12	56	52			1.02	257		3.1
		ESG		57	01.5		0.7				
	KRP	EPG	12	56	46.0		-1.6	1.05	355	2.8	2.8
		ESG		57	02		0.2				
	TRZ	EPG	12	56	49		0.8	1.08	123		3.1
		E		57	08						
	WTZ	EPG	12	56	55		-0.4	1.43	47	3.1	
	MNG	EP*	12	56	58.2		2.9	1.65	185	3.2	2.7
		EPG		57	00.8		1.0				
		ESG			20		-2.2				

THIS SHOCK REPRESENTS FURTHER SWARM ACTIVITY WEST OF TURANGI (40); OTHER SHOCKS AT 12H 54M 12S, 15H 54M 41S, 15H 55M 06S, 15H 55M 31S AND 13H 00M 43S

72/ 613

	H M S										
DEC 10	00 37 44.3	39.00S	174.90E	218 KM	SE 1.3	AVG MAG 5.2					
	+- 0.5	0.03	0.03	S							
		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	P	00	38	15.2		1.8	0.44	245		
	CNZ	IP	00	38	15.1		1.3	0.54	111		
	WNZ	P	00	38	16.2		0.1	1.01	69	5.4	
	KRP	P	00	38	17.8	D	0.4	1.19	25		
		S			41		-2.0				
	TRZ	P	00	38	20.9	U	0.2	1.59	111		
	MNG	IP	00	38	22.9	U	1.5	1.68	165		
	TUA	P	00	38	21.9		-0.4	1.77	84	5.4	6.0
		I			42						
		S			47		-4.6*				
	WTZ	IP	00	38	22.2		-1.6	1.93	59	5.0	
		E			49						
	WEL	P	00	38	28.9		1.5	2.28	182	5.7 5.6	5.7
		S		39	00.0		-0.6				
	GNZ	IP	00	38	28.4	U	-0.9	2.47	83	6.1	
		E			53						
		E		39	00						
	COB	IP	00	38	32.9		1.3	2.66	218		
		E		39	08						
	GBZ	P	00	38	32.8		-0.5	2.82	10	4.2	
		I			50						
		E		39	11						
	ECZ	P	00	38	35.5		-1.7	3.15	67	5.6	5.6
		I		39	06						
		S			12.8		-3.3*				
	ONE	EP	00	38	39		0.7	3.25	352	4.4	
		S		39	20		-0.1				
	CRZ	P	00	38	59.8		1.3	4.90	338	4.6	
	MJZ	P	00	39	13.8		1.4	5.99	212	4.3	5.0
		S		40	20		-1.0				
	OMZ	EP	00	39	23.5		1.3	6.75	205		
		S		40	38		-0.5				
	MSZ	P	00	39	33.8		-0.6	7.69	220		
		S		40	57		-3.4				

	CIZ	EP	00 39 40		0.4	8.09	130				
		E	16								
		ES	41 10		0.3						
		E	16								
	MNW	EP	00 39 46		-0.8	8.65	216				
		S	41 23		0.5						

FELT WAIPAWA (60), DANNEVIRKE (57), MM IV LOWER HUTT (68) MM III

H M S 72/ 614

DEC 11 11 28 49.4 38.33S 176.06E 173 KM SE 1.5 AVG MAG 4.7

+- 0.9 0.05 0.04 9

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	11 29 14.0	D	0.2	0.58	314		4.2	4.0
	S	31.4		-1.3					
WTZ	P	11 29 14.4		-0.8	0.81	65		4.5	
CNZ	P	11 29 19.2		3.0	0.96	205			
TUA	P	11 29 17		0.7	0.98	120		4.4	4.8
	E	32							
	ES	36		-1.2					
TRZ	P	11 29 21.2		1.5	1.36	154			
	S	45		2.0					
TNZ	P	11 29 24.0		2.3	1.57	236		4.2	
GNZ	P	11 29 22.0		0.3	1.57	102		5.2	4.9
	E	44							
	S	45.3		-1.4					
ECZ	P	11 29 27.5		0.5	2.06	73		5.5	4.6
	S	55		-1.0					
MNG	IP	11 29 31.0	U	0.9	2.33	191		5.1	
	S	30 01.0		-0.4					
WEL	P	11 29 39.8		0.0	3.12	198	4.7	5.2	4.8
	S	30 16.8		-1.7					
COB	P	11 29 47.0		-1.0	3.76	222		4.7	4.7
	ES	30 32		-1.1					
GPZ	S	11 31 18		-6.1*	5.95	205	5.1		
MJZ	EP	11 30 29.5		-1.6	7.05	215			
	S	31 44.5		-5.8*					

H M S 72/ 615

DEC 12 09 53 19.2 38.24S 176.17E 166 KM SE 0.9 AVG MAG 4.1

+- 0.6 0.03 0.03 5

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	09 53 43.2		0.3	0.59	302		3.8	3.4
	S	54 00.8		-0.3					
WTZ	P	09 53 42.8		-0.7	0.70	69		3.9	3.7
	E	56							
	E	54 00							
TUA	EP	09 53 45.5		0.2	0.96	127		4.1	4.2
	S	54 04.5		-0.9					
CNZ	P	09 53 47.9		1.7	1.08	207		4.1	
TRZ	P	09 53 51.0		1.6	1.41	159		4.4	4.5
	S	54 14		1.4					
GNZ	P	09 53 50		-0.4	1.51	106		4.1	4.3
	S	54 13.8		-0.6					
TNZ	E	09 53 55			1.69	235		3.6	
GBZ	IP	09 53 56.8		0.2	2.09	345		3.8	
MNG	P	09 54 00.2		-0.6	2.44	192			4.3
	S	32		-0.8					
WEL	P	09 54 10.6		-0.1	3.23	199	4.4	4.9	4.4
	S	50		-0.3					
COB	P	09 54 18.8		-0.4	3.89	222		4.1	4.3
	S	55 05		-0.4					
GPZ	ES	09 55 51		-5.6*	6.07	205	4.7		
MJZ	S	09 56 18		-5.0*	7.18	215			

	H M S								72/ 616
DEC 12	19 33 17.4	43.15S	170.98E	12 KM	SE	1.6	AVG MAG		3.8
	+- 0.4	0.03	0.04	8					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MJZ	P*	19 33 33.1		-1.1	0.92	204		3.5	3.8
	S*	44.8		-1.9					
GPZ	EP*	19 33 41.5		0.3	1.33	115	3.0		
	ES*	59.8		0.8					
OMZ	EPN	19 33 50		0.8	1.92	181		3.8	3.7
	ES*	34 16		-0.8					
COB	PN	19 33 53.5		-2.7	2.44	33		4.4	4.3
	EP*	59		-1.2					
	ES*	34 32		-0.3					
ROX	PN	19 33 58		-0.8	2.62	207		3.9	
	EP*	34 02.6		-0.6					
	E	45							
MSZ	EPN	19 34 00		0.2	2.69	234		3.6	4.2
	EP*	04		-0.5					
	ESN	34		2.3					
MNW	E	19 34 15			3.57	221		3.8	3.5
	EP*	19		-0.5					
	ESN	55		2.4					
MNG	IPN	19 34 23.0		2.8	4.20	55		4.2	
CNZ	EPN	19 34 36.0		2.0	5.24	43		3.9	
	IP*	47.0		-1.1					

FELT ROSS (91) MM V

	H M S								72/ 617
DEC 12	19 34 36.1	38.25S	176.11E	168 KM	SE	1.2	AVG MAG		4.3
	+- 0.8	0.03	0.04	7					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	19 35 00.3		0.3	0.55	305		4.2	3.5
	S	18.0		-0.3					
WTZ	P	19 35 00.0		-1.0	0.74	70		3.7	4.0
	E	15.5							
TUA	P	19 35 02.1		-0.7	0.99	125		4.6	4.2
	ES	22		-1.3					
CNZ	P	19 35 05.0		1.8	1.05	204		4.1	3.7
	E	27							
TRZ	P	19 35 08.0		1.4	1.42	157		4.6	4.2
	ES	32.5		2.4					
GNZ	P	19 35 08.2		0.2	1.56	105		4.6	4.7
	S	31.2		-1.3					
ECZ	P	19 35 13.2		0.4	2.01	75		4.3	4.4
	S	41.3		0.7					
GBZ	IP	19 35 13.9		0.2	2.09	346		3.9	
MNG	P	19 35 17.1		-0.6	2.42	191		4.8	4.3
	S	49.5		-0.1					
WEL	P	19 35 26.5		-1.0	3.21	198	4.4	4.6	4.6
	S	36 06		-1.0					
GPZ	E	19 37 06			6.04	205	4.7		

	H M S								72/ 618
DEC 12	23 34 02.1	33.00S	179.55W	479 KM	SE	0.8	AVG MAG		4.7
	+- 1.2	0.12	0.22	18					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	P	23 35 35		-0.6	5.72	209		4.6	
GNZ	P	23 35 39		0.9	5.96	199		5.0	4.6
	S	36 54		-0.0					
KRP	EP	23 35 42		0.1	6.34	218			
MNG	P	23 36 05		-0.4	8.58	206			
	ES	37 43		-0.3					
COB	ES	23 38 14.4		0.4	10.15	215			

	H M S								72/ 619
DEC 13	09 46 04.2	45.11S	167.63E	84 KM	SE 0.7		AVG MAG		3.8
	+- 0.8	0.02	0.03	6					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP	09 46 19.0	U	0.5	0.48	24			
	ES	29.2		-0.2					
MNW	P	09 46 20.3		0.0	0.67	182		3.8	4.2
	S	32.0		-0.4					
ROX	P	09 46 27.5		0.5	1.24	108		4.1	3.9
	S	45		1.0					
WPZ	E	09 46 30.8			1.76	152			
	ES	55		-0.4					
MJZ	E	09 46 43			2.31	62		2.9	3.2
	ES	47 08		-0.5					
OMZ	P	09 46 41.3		0.1	2.32	90		4.4	3.9
	ES	47 08		-0.6					

	H M S								72/ 620
DEC 13	11 47 18.3	38.77S	179.72E	114 KM	SE 1.5		AVG MAG		4.1
	+- 1.4	0.09	0.10	17					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P	11 47 43.8		-0.2	1.33	275		4.6	4.1
	S	48 01.0		-2.4					
ECZ	E	11 48 00			1.42	319			3.8
TUA	P	11 47 52.5		0.5	2.01	268		4.3	4.3
	S	48 18		0.6					
WTZ	P	11 47 56.2		0.5	2.28	289		4.0	4.0
	ES	48 23		-0.9					
TRZ	P	11 47 58.0		0.9	2.38	250		4.1	4.1
	S	48 29		2.7					
CNZ	P	11 48 10.8		1.7	3.28	261		4.0	3.7
	S	48.5		0.8					
MNG	P	11 48 15.0		-0.5	3.75	239		4.1	3.8
	S	58.8		-0.4					
WEL	EP	11 48 25		-1.4	4.56	235	4.7	4.0	4.6
	S	49 17.8		-0.8					
COB	ES	11 49 49		-1.1	5.85	244			3.9

	H M S								72/ 621
DEC 13	14 40 58.4	41.82S	174.38E	68 KM	SE 2.0		AVG MAG		4.1
	+- 0.8	0.06	0.07	12					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P	14 41 13.2	D	0.6	0.61	28	4.3	4.4	4.7
	S	21.0		-2.3					
KKY	P	14 41 17.7		3.0	0.79	220			
	I	25.2							
	IS	27		0.1					
COB	P	14 41 24.9		1.7	1.44	300		4.3	4.5
	S	42.0		0.3					
MNG	P	14 41 23.1	D	-0.3	1.46	35		4.1	4.4
	S	39.5		-2.6					
GPZ	S	14 42 01.8		0.5	2.27	214	3.9		
TNZ	EP	14 41 42		2.3	2.63	360		3.9	
CNZ	P	14 41 42.8		1.2	2.76	19		3.6	4.3
	S	42 13		-1.2					
TRZ	E	14 42 14			2.93	40			3.9
	ES	19		0.8					
MJZ	EP	14 41 55		1.9	3.60	232		4.0	3.4
	S	42 34.2		-0.5					
MSZ	S	14 43 19.8		-2.7	5.52	237			3.3
MNW	ES	14 43 39		-2.8	6.29	229			

FELT MARSHLANDS (77) MM III

	H	M	S									72/ 622
DEC 14	12	35	21.7	33.83S	179.99W	33 KM	SE	1.9	AVG MAG			4.7
		+-	2.2	0.10	0.20	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		EP	12	36	22		1.7	4.03	197		4.9	
	WTZ		EP	12	36	31.0		0.1	4.82	210		4.4	
	GNZ		EP	12	36	33		-1.3	5.06	198		4.7	
			S		37	27		-3.1					
	KRP		P	12	36	41.3		1.8	5.47	220		4.3	
	TUA		EP	12	36	39		-0.8	5.48	204		4.7	
	CRZ		EP	12	36	47		-1.4	6.11	262			
	TRZ		EP	12	36	51		0.6	6.26	203			
	CNZ		E	12	36	56			6.45	213			
			E		37	07							
	MNG		E	12	37	04			7.68	207			
			E			30							
			ES		38	35		2.3					
	WEL		ES	12	38	53		0.0	8.52	208	5.2		

	H	M	S									72/ 623
DEC 14	13	22	46.1	33.90S	179.72W	221 KM	SE	1.6	AVG MAG			5.2
		+-	1.5	0.07	0.15	20						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		P	13	23	49		-0.7	4.04	200		5.5	
	GBZ		EP	13	23	59		2.8	4.57	238			
	WTZ		EP	13	23	59.0		-1.0	4.87	212		5.1	4.9
			I		24	01.3							
			S			57		-0.5					
	GNZ		P	13	24	02.3		-0.0	5.07	200		5.3	
			I			10.0							
			ES		25	00		-2.0					
	TUA		EP	13	24	09		0.9	5.51	206		5.2	5.1
			ES		25	13		1.1					
	KRP		P	13	24	10.3		1.6	5.56	222		4.9	
	TRZ		EP	13	24	18		0.0	6.29	205			
			E			26							
			S		25	31		1.3					
	CRZ		EP	13	24	16		-2.5	6.33	263			
	CNZ		EP	13	24	21.3		0.6	6.52	214			
	MNG		EP	13	24	34		-2.4	7.72	208			
			ES		26	03		0.3					
	WEL		EP	13	24	49		1.6	8.57	209	5.6		
			S		26	21		-1.4					
	GPZ		ES	13	27	29		0.4	11.45	209	5.4		

	H	M	S									72/ 624
DEC 14	13	31	13.6	33.57S	179.98E	33 KM	SE	2.6	AVG MAG			5.0
		+-	2.5	0.13	0.24	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		P	13	32	15		-0.4	4.27	195		5.2	5.1
			E		33	13							
	GBZ		E	13	32	25			4.54	233			
	WTZ		EP	13	32	25.0		-0.6	5.03	208		4.9	4.7
			E			27.2							
			S		33	23		2.0					
	GNZ		EP	13	32	28		-1.3	5.30	197		4.9	
			ES		33	31		3.3					
	KRP		P	13	32	36.3		2.3	5.65	218		4.6	
	TUA		EP	13	32	34		-0.7	5.70	203			
			E		33	41							
	CRZ		EP	13	32	40		-0.4	6.12	260			
	TRZ		EP	13	32	44		-1.3	6.48	202			
	CNZ		P	13	32	52		4.4	6.65	211			
			E		33	05							
	MNG		EP	13	33	01		-3.2	7.89	206			
			E		34	23							
	WEL		EP	13	33	17		1.5	8.74	207	5.4		

		S		34 47		-3.0					
	GPZ	ES		13 35 55		-2.7	11.61	207	5.4		

	H M S									72/ 625
DEC 15	13 01 33.8	44.36S	170.19E	12 KM	SE 1.4		AVG MAG		3.8	
	+- 0.4	0.03	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MJZ IP*	13 01 40.8	UN	-1.3	0.42	29				
	ES*	46		-2.1						
	OHZ IP*	13 01 48.4	D	-1.5	0.88	144		4.2	4.2	
	ES*	02 02		0.1						
	ROX EPN	13 01 56		-1.1	1.28	209		4.0	3.7	
	ESN	02 13.5		-0.9						
	HSZ PN	13 02 02.8		0.7	1.65	258		3.9		
	ESN	25		2.1						
	GPZ EP*	13 02 09		1.8	1.89	70	3.2			
	EPG	14		1.9						
	ES*	32.5		0.2						
	ESG	38		0.4						
	MNW EPN	13 02 10		-0.9	2.31	231		3.7	3.4	
	EP*	15.5		1.1						
	ES*	44		-0.8						
	WPZ P*	13 02 17.8		0.4	2.49	202		4.0	3.5	
	ES*	53.5		3.3*						

	H M S									72/ 626
DEC 15	16 17 13.4	37.07S	179.98W	33 KM	SE 1.2		AVG MAG		4.3	
	+- 1.2	0.06	0.10	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ EPN	16 17 36		1.2	1.32	242		5.0		
	GNZ PN	16 17 48.0		0.8	2.23	225		4.7	4.6	
	ESN	18 14		1.2						
	WTZ PN	16 17 51.0	U	-1.0	2.57	248		4.7	4.2	
	E	18 27								
	TUA EP*	16 18 05		1.5	2.85	232		4.3	4.4	
	ESN	28.5		0.5						
	TRZ PN	16 18 05.2		0.1	3.53	224		4.5	4.3	
	ESN	45		0.4						
	KRP EPN	16 18 07		0.1	3.66	255		3.9		
	GBZ EPN	16 18 06		-2.0	3.74	282		3.9		
	CNZ EPN	16 18 12.5		-0.5	4.11	238		4.4		
	I	21.0								
	ONE EPN	16 18 23		1.4	4.74	284			3.4	
	MNG EPN	16 18 25		-0.2	5.01	224		4.0	3.9	
	ESN	19 18		-2.4						
	WEL ESN	16 19 40		-0.9	5.86	222			4.4	
	COB E	16 19 00			6.94	232				
	ESN	20 06.5		-0.3						
	CIZ E	16 19 12			7.35	160				
	ESN	20 22		5.3*						

	H M S									72/ 627
DEC 16	04 55 33.8	36.90S	179.80E	12 KM	SE 1.4		AVG MAG		4.3	
	+- 0.8	0.05	0.05	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ EPN	04 55 58.5		1.4	1.27	231		4.7	4.7	
	ESG	56 18		1.1						
	I	33.8								
	GNZ PN	04 56 10.8		0.9	2.24	218		4.6	4.6	
	ESN	37		0.2						
	WTZ PN	04 56 13.3	U	0.0	2.48	243		4.7	4.2	
	P*	17.0		-0.4						
	PG	21.7		-2.4						
	SN	45.3		2.6						
	TUA EPN	04 56 17		-1.2	2.83	227		4.5	4.4	
	ESN	51		-0.6						
	TRZ EPN	04 56 27		-0.6	3.54	221		4.4	4.4	
	ESN	57 10		1.7						

	GBZ	PN	04 56 28.5		0.7	3.54	280		3.8	
	KRP	EPN	04 56 28		0.3	3.54	252		3.9	3.7
		E	57 13							
	MNG	EPN	04 56 46		-1.5	5.02	221		3.8	4.0
		ESN	57 40		-4.0*					
	COB	ESN	04 58 28		-1.2	6.91	231			
	CIZ	E	04 57 30			7.58	160			
		ESN	58 45		-0.1					

	H M S								72/ 628
DEC 17	01 51 04.2	39.05S	174.71E	206 KM	SE	1.0	AVG MAG		3.9
	+- 0.8	0.04	0.05	7					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IP	01 51 34.2	U	1.3	0.67	104	3.8	3.5
		ES	55		-0.1				
	KRP	EP	01 51 37.5		0.6	1.29	30	3.2	
		ES	52 02		-0.3				
	MNG	IP	01 51 41.1	U	0.7	1.68	160	4.4	4.0
		ES	52 07		-1.3				
	TRZ	ES	01 52 10		1.2	1.71	108		4.2
	WTZ	IP	01 51 43.0	D	-1.3	2.08	60	3.9	
	WEL	P	01 51 46.4		0.4	2.24	179	3.9	3.7
		ES	52 18		-0.3				
	COB	P	01 51 50.0		0.6	2.54	216	4.0	3.9
		ES	52 24		-0.4				
	GNZ	P	01 51 49.1		-1.2	2.62	82	4.4	4.2
		ES	52 21		-4.9*				

	H M S								72/ 629
DEC 17	08 00 57.1	33.35S	179.58W	204 KM	SE	2.3	AVG MAG		4.4
	+- 2.3	0.11	0.13	39					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ	EP	08 02 13		1.1	4.97	234	3.8	
		E	16.3						
	WTZ	EP	08 02 18		0.6	5.40	210	4.5	4.0
		ES	03 19.5		-0.4				
	ONE	E	08 02 27.5			5.56	242	4.6	
	GNZ	EP	08 02 20		-0.4	5.63	200	4.8	4.5
		ES	03 23		-2.1				
	KRP	P	08 02 28.7	DS	2.9	6.06	220		
		E	03 26						
	TUA	EP	08 02 24		-1.9	6.06	205		
	CRZ	EP	08 02 33.5		1.5	6.53	258		
		ES	03 43		-3.0				
	TRZ	E?	08 02 45			6.84	204		
		ES	03 57		3.9				
	MNG	EP	08 02 53		-1.5	8.26	207		
		E	04 42.5						
	COB	ES	08 05 04		0.7	9.86	216		
	CIZ	ES	08 05 25		-1.3	10.85	168		

	H M S								72/ 630
DEC 17	08 32 40.1	33.67S	179.83W	179 KM	SE	2.3	AVG MAG		4.5
	+- 1.9	0.09	0.11	32					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ	EP	08 33 52		2.4	4.60	235	4.1	
	WTZ	P	08 33 53.1		-1.8	5.01	210	4.8	4.3
		ES	34 51		-1.8				
	ONE	E	08 34 03			5.21	245	3.4	
	GNZ	EP	08 33 56		-2.0	5.25	198	5.1	4.9
		ES	34 59		0.5				
	KRP	P	08 34 05.0		1.6	5.66	220	4.7	4.0
		E	35 14						
	TUA	EP	08 34 03		-0.5	5.67	204	5.0	4.7
		ES	35 10		1.7				
	CRZ	EP	08 34 10		-1.1	6.24	261		
		ES	35 20		-1.9				
	TRZ	EP	08 34 13		-0.8	6.45	204		

	ES		35	29	2.3			
CNZ	EP	08	34	20.5	4.1	6.65	213	
MNG	EP	08	34	30	-2.5	7.87	207	
	ES		35	58	-2.3			
WEL	ES	08	36	18	-2.2	8.72	208	
COB	EP	08	34	56	2.6	9.46	216	
	ES		36	40	2.3			
CIZ	E	08	35	11.5		10.58	167	
	ES		37	03	-0.9			

	H	M	S									72/ 631
DEC 17	08	37	26.0	33.75S	179.75W	200 KM	SE	ND	AVG MAG	4.5		
			R	R	R	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	EP			08	38	40		3.7*	4.62	236		3.7	
WTZ	EP			08	38	41		0.1*	4.99	211		4.6	
GNZ	EP			08	38	43		-0.7*	5.21	200		4.9	
ONE	EP			08	38	47		2.7*	5.25	246	4.5		
TUA	EP			08	38	50		0.8*	5.63	205		4.8	
KRP	EP			08	38	51		1.5*	5.66	221		4.4	
CRZ	EP			08	38	57		-1.1*	6.32	262			
TRZ	EP			08	39	00		0.6*	6.41	204			
MNG	EP			08	39	18		0.0*	7.84	208			
COB	EP			08	39	40		1.1*	9.45	217			
CIZ	E			08	40	07			10.49	167			

POSITION CONFORMS WITH BETTER RECORDED SHOCK

	H	M	S									72/ 632
DEC 17	08	38	21.6	33.43S	179.00W	33 KM	SE	2.3	AVG MAG	5.1		
		+-	2.3	0.14	0.15	65						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	EP			08	39	40		2.4	5.32	237		4.6	
WTZ	EP			08	39	42		0.8	5.59	215		5.1	4.7
	E				40	38							
GNZ	EP			08	39	44		0.9	5.73	204		5.4	5.4
	ES				40	46		-0.1					
ONE	EP			08	39	49.5		3.5	5.95	245			
TUA	EP			08	39	50		0.5	6.20	209			
	ES				40	57		-0.3					
KRP	EP			08	39	51		0.0	6.31	223			
	E				41	07							
TRZ	EP			08	40	01		1.1	6.97	208			
	ES				41	18		2.2					
CRZ	EP			08	39	57		-3.1	6.98	259			
	E				41	07							
CNZ	EP			08	40	07		3.5	7.24	216			
MNG	EP			08	40	18		-1.2	8.42	210			
	E				41	39							
WEL	EP			08	40	32		1.4	9.27	210			
	E				42	05							
COB	E			08	40	59			10.08	218			
	ES				42	33		3.1					
CIZ	E			08	41	02			10.68	170			
	ES				42	46		2.2					

	H	M	S									72/ 633
DEC 17	09	20	07.5	34.33S	179.08E	394 KM	SE	2.0	AVG MAG	4.1		
		+-	3.0	0.53	0.56	114						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GBZ	EP?			09	21	15		0.0	3.49	236			
WTZ	EP			09	21	20		0.1	4.02	204		4.2	3.8
	E					26							
	ES				22	17		0.2					
	E					26							
ONE	EP			09	21	23		2.0	4.13	248			
GNZ	EP			09	21	22.5		-1.1	4.39	191			
	ES				22	21.5		-1.8					
KRP	EP			09	21	27		1.3	4.59	218		4.1	

	TUA	EP	09	21	28	0.9	4.73	199			
		E		22	44						
	CRZ	EP	09	21	30	-2.9	5.29	267			
	MNG	E	09	22	09		6.90	203			
		E		23	32.5						

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	H	M	S									
DEC 17	09	52	44.6	33.70S	179.74W	202 KM	SE	1.8	AVG MAG		5.2	
		+-	1.4	0.07	0.08	28						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ	EP		09	53	54.5		-0.9	4.66	236		4.6	
		E			54	09.0							
	WTZ	P		09	53	59.8		-0.4	5.03	211		5.3	5.0
		ES			54	58		-0.8					
	GNZ	EP		09	54	01.5		-1.5	5.25	200		5.7	5.5
		E			59								
	ONE	EP		09	54	03		-0.3	5.28	245	5.0		
	TUA	EP		09	54	09		0.5	5.68	205		5.5	5.3
		E			55	35							
	KRP	P		09	54	11.3		2.5	5.70	221		5.0	4.5
		ES			55	15		0.8					
	CRZ	EP		09	54	16		-1.0	6.34	261			
		ES			55	28		-0.9					
	TRZ	EP		09	54	19		0.4	6.46	204			
		ES			55	35		3.1					
	CNZ	P		09	54	26.8		5.4*	6.67	213			
		E			55	50							
	MNG	EP		09	54	35.5		-1.7	7.89	208			
		ES			56	03		-2.2					
	WEL	E		09	54	53			8.74	208			
		ES			56	24		-0.9					
	COB	EP		09	55	00		1.9	9.50	217			
		ES			56	44		1.5					
	CIZ	EP		09	55	14		2.5	10.53	167			
		ES			57	04		-2.6					

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	H	M	S									
DEC 17	21	23	47.4	33.75S	179.64W	156 KM	SE	1.2	AVG MAG		4.5	
		+-	2.3	0.09	0.19	50						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ	EP		21	24	59		1.1	4.70	237		4.0	
	WTZ	EP		21	25	01		-1.3	5.04	212		4.4	4.2
		E				40							
	GNZ	E		21	25	10			5.24	200		4.9	4.7
		ES			26	04		-0.9					
		E				35							
	ONE	EP		21	25	05		-1.2	5.33	246	4.6		
		P				43							
	TUA	EP		21	25	12		1.3	5.68	206		4.8	4.6
		ES			26	16		0.7					
	KRP	P		21	25	11.3		0.5	5.72	222		4.2	4.3
		E				44							
	CRZ	EP		21	25	20		-0.5	6.41	262			
	CNZ	EP		21	25	30		5.8*	6.68	214			
		E			26	55							
	MNG	EP		21	25	41		0.8	7.88	208			
		E				59.5							
		E			27	15							
		E				41							
	CIZ	E		21	26	27			10.47	168			
		ES			28	09		-0.4					

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	H	M	S									
DEC 18	04	24	26.1	33.17S	178.72W	33 KM	SE	2.2	AVG MAG		4.0	
		+-	3.3	0.12	0.33	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GBZ	EPN		04	25	47		0.3	5.66	236		4.0	
	WTZ	EPN		04	25	49		-1.5	5.94	215		4.2	3.9

		ESN		26	52	-3.6				
	GNZ	EPN	04	25	52	-0.2	6.07	205		
		ESN		27	01	2.4				
		E(S*)			30	-0.2				
	ONE	EPN	04	25	57	2.0	6.27	244		
	KRP	EPN	04	25	59	-1.2	6.66	223		
	MNG	E	04	26	38		8.76	210		
		ESN		28	05	2.0				

	H	M	S							72/ 637
DEC 18	05	04	09.0	33.88S	179.35E	218 KM	SE 1.0		AVG MAG	4.2
		+-	1.4	0.06	0.11	21				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	05	05	11		0.7	3.87	190		4.6	4.3
	ES			58		0.1					
GBZ	EP	05	05	12		0.7	3.94	233		3.8	
ONE	EP	05	05	18		-0.4	4.52	244			
WTZ	EP	05	05	19		0.5	4.53	204		4.1	3.7
	ES		06	13		0.5					
GNZ	EP	05	05	23		0.1	4.88	192		4.6	4.3
	ES		06	19		-1.4					
KRP	EP	05	05	24		-1.6	5.09	216		3.9	
MNG	E?	05	05	49			7.40	203			
	ES		07	19		0.7					

	H	M	S							72/ 638
DEC 18	07	43	44.1	34.15S	179.58W	215 KM	SE 1.4		AVG MAG	4.4
		+-	1.3	0.07	0.08	18				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	07	44	45		-0.1	3.84	203		4.8	4.6
	ES		45	33		0.6					
GBZ	P	07	44	53.6		-0.1	4.54	242		3.9	
WTZ	P	07	44	56.0		-0.0	4.72	215		4.3	4.1
	ES		45	51		-0.9					
GNZ	EP	07	44	57		-1.0	4.88	203		4.7	4.7
	E		45	45							
ONE	EP	07	45	03		0.6	5.23	250	4.6		
TUA	EP	07	45	04		0.2	5.34	209		4.7	4.5
	E		46	08							
KRP	EP	07	45	07		1.7	5.46	225		3.9	
TRZ	EP	07	45	15		1.3	6.11	207			
	E		46	29							
CRZ	P	07	45	17.9		0.4	6.41	265			
	ES		46	28		-2.4					
MNG	E	07	45	47.3			7.55	210			
	E		47	03							
COB	ES	07	47	37		1.6	9.22	219			
CIZ	ES	07	47	53		-1.9	10.06	167			

	H	M	S							72/ 639
DEC 18	11	53	22.5	33.24S	179.49W	33 KM	SE 1.7		AVG MAG	4.2
		+-	2.2	0.11	0.20	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	EP	11	54	40		-1.4	5.53	210		4.1	3.8
	ES		55	41		-1.2					
GNZ	EP?	11	54	43.5		-0.8	5.76	200		4.6	4.4
	E		55	00							
	E		56	16							
KRP	EP	11	54	51		0.9	6.18	220			
	E		56	08							
TUA	EP	11	54	49		-1.2	6.18	205			
	ES		55	59		1.2					
	E		56	22							
CRZ	EP	11	54	56		-0.1	6.62	258			
MNG	EP	11	55	22.3		2.6	8.39	207			
	E		56	32							

		H M S									72/ 640
DEC 19		02 11 22.6	46.30S	166.57E	12 KM	SE 1.3		AVG MAG			4.1
		+- 1.0	0.04	0.05	R						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW	IP*	02 11 39.7	U	0.6	0.90	55		4.5	4.4	
		ES*	50.5		-0.8						
	WPZ	IPN	02 11 49.9	D	-0.6	1.62	104		4.2	4.2	
		PG	54.4		-1.0						
		E	56.4								
		ESN	12 10		-1.0						
	HSZ	EPN	02 11 54		-0.0	1.89	31		4.1	4.0	
		EP*	57		1.0						
		ESG	12 24		-2.3						
	ROX	EPN	02 11 57		0.2	2.09	68		4.0	4.5	
		EP*	59		-0.5						
		ES*	12 26		-1.2						
	ONZ	EP*	02 12 22		2.0	3.29	70		4.1	4.1	
		ES*	13 05		2.0						
	MJZ	EP*	02 12 25		-0.3	3.60	51		3.7	3.5	
		ES*	13 14		1.5						
	GPZ	ES*	02 13 56		0.4	5.03	61	4.4			
		H M S									72/ 641
DEC 19		10 59 46.7	38.16S	175.97E	183 KM	SE 1.3		AVG MAG			3.8
		+- 1.8	0.07	0.07	15						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	IP	11 00 12.0	U	0.4	0.42	305				
	WTZ	EP	11 00 12.5		-1.1	0.82	78		3.3	3.1	
		ES	34		-0.4						
	ONZ	P	11 00 17.9		2.4	1.09	198		3.7		
	GNZ	EP	11 00 21		0.1	1.68	107		4.1	4.3	
		ES	47		-0.3						
	MNG	P	11 00 29.9		0.2	2.48	189		3.9	3.9	
		ES	01 03		0.1						
	WEL	ES	11 01 20		0.4	3.25	196			3.9	
	COB	ES	11 01 31		-1.8	3.84	220				
		H M S									72/ 642
DEC 19		14 38 51.6	34.52S	179.24E	349 KM	SE 1.7		AVG MAG			4.8
		+- 1.4	0.08	0.10	13						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ	P	14 39 55.8		2.6	3.22	190		5.1	5.1	
		ES	40 41		-0.6						
	WTZ	P	14 39 58.7		-1.3	3.91	207		4.8	4.6	
		E	40 00.9								
		E	46								
	ONE	EP	14 40 03.5		0.6	4.19	251	4.6			
		E	22								
		ES	58		-0.9						
	GNZ	EP	14 40 02		-1.3	4.23	193		5.2	5.5	
		ES	58		-1.7						
	KRP	P	14 40 07.5		1.0	4.53	220		4.0		
		ES	41 08		2.7						
	TUA	EP	14 40 07		-0.2	4.60	201		4.5	4.9	
		E	41 00								
	CRZ	EP	14 40 14		-2.3	5.42	269		4.5		
	ONZ	EP	14 40 19		1.4	5.53	211		4.4	4.3	
		E	41 30								
	TNZ	EP	14 40 27		3.2	6.07	218				
	MNG	EP	14 40 30		-2.1	6.78	205				
		E	32.3								
		E	41 42								
		ES	51		0.0						
	WEL	EP	14 40 42.3		0.3	7.62	206	5.7			
		ES	42 08		-0.9						
	COB	EP	14 40 50		-0.4	8.34	216				
		ES	42 24		-0.1						

	CIZ	E	14 41 23				9.97	162				
		ES	43 16		16.5*							
	H M S											72/ 643
DEC 20	09 31 16.5		33.58S	179.73W	261 KM		SE 1.7		AVG MAG			5.1
	+- 1.3		0.07	0.08	21							
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ	E?	09 32 15				4.33	198		5.6	5.4	
		EP	27			1.8						
		E	33 28									
	GBZ	EP	09 32 29			-0.9	4.73	235		3.7		
	WTZ	EP	09 32 33			-1.8	5.14	210		5.1	4.8	
		E	33 32									
		E	56									
	ONE	EP	09 32 39			1.8	5.34	244	5.1			
		E	33 56									
	GNZ	EP	09 32 37			-0.6	5.37	199		5.5	5.4	
		ES	33 41			-0.1						
		E	34 11									
	TUA	EP	09 32 43			0.2	5.79	205		5.3	5.2	
		ES	33 50			-0.4						
		E	34 08									
	KRP	EP	09 32 45			2.1	5.79	220		4.9	4.5	
		ES	33 52			1.5						
	CRZ	EP	09 32 49.5			-0.4	6.36	260				
		ES	34 01			-2.1						
	TRZ	EP	09 32 52.5			-0.0	6.57	204				
		E	34 13									
		E	51									
	CNZ	EP	09 32 59.5			4.4*	6.78	213				
		E	34 19									
		E	35 10									
	MNG	EP	09 33 08			-2.5	7.09	207				
		ES	34 39			-0.9						
		E	35 07.5									
	WEL	EP	09 33 23			1.8	8.84	208	5.6			
		ES	34 57			-2.1						
		E	35 39.5									
	COB	EP	09 33 31			0.4	9.59	217				
		ES	35 19			3.0						
		E	36 07									
	CIZ	E	09 33 50.5				10.64	168				
		ES	35 39			-0.9						
	H M S											72/ 644
DEC 20	09 47 32.9		33.34S	179.79E	33 KM		SE 1.9		AVG MAG			4.1
	+- 2.5		0.17	0.32	R							
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ	EP	09 48 39			1.6	4.46	193				
	WTZ	EP	09 48 46			-0.9	5.17	205		4.2	3.8	
		ES	49 42			-1.8						
	GNZ	EP	09 48 50			-1.2	5.49	195		4.4	4.3	
		ES	49 51			-0.5						
	KRP	EP	09 48 55			0.4	5.74	216		4.1		
	MNG	E?	09 49 22				8.04	204				
		ES	50 55			2.3						
	H M S											72/ 645
DEC 20	09 55 35.1		39.18S	177.38E	12 KM		SE 1.2		AVG MAG			4.7
	+- 0.3		0.02	0.02	R							
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	TUA	IP*	09 55 44.3		D	1.3	0.41	334				
		ES*	49			-0.1						
	TRZ	IPG	09 55 50.3		D	3.6*	0.58	229		5.2		
	GNZ	IP*	09 55 50.6		DNW	2.0	0.73	43		5.4	5.3	
		ES*	59			0.3						
	WTZ	IP*	09 55 55.3		U	-1.4	1.23	345		4.9	4.9	
		E	56 08									

CNZ	IP*	09	56	01.5	D	0.9	1.43	269		5.0	
	EPG			04		-0.0					
ECZ	PN	09	56	04.9		0.4	1.74	32		4.9	4.7
	E			13.0							
	S*			28.4		-0.7					
KRP	EPN	09	56	06		-0.8	1.91	310		4.6	4.2
	EPG			12		-1.9					
	ES*			34		-0.3					
MNG	IPN	09	56	09.2	D	0.5	2.05	225		4.5	4.5
	E			21.5							
WEL	PN	09	56	19.4	D	-1.1	2.91	223	4.4	4.7	4.6
	EP*			28		2.1					
	E			41.8							
	ESN			53.5		-1.2					
GBZ	PN	09	56	24.8		-1.1	3.32	332		3.9	
COB	EPN	09	56	36		0.3	4.04	240		4.6	4.5
	PG			58		1.1					
	E		57	41							
CRZ	EPN	09	57	04		1.3	6.06	320			
CIZ	E	09	57	12			6.58	138			
	ESN		58	21		-1.7					

FELT IN HAWKES BAY MM IV

	H	M	S							73/ 646
DEC 20	10	15	50.1	33.51S	179.39E	193 KM	SE	1.8	AVG MAG	4.7
	+-		1.8	0.14	0.30	37				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	10	16	58		2.8	4.23	189		5.0	
WTZ	EP	10	17	02		-1.4	4.87	203		4.7	4.1
	ES			58.5		-1.7					
GNZ	EP	10	17	06		-2.2	5.24	192		5.0	4.8
	ES		18	08		-0.7					
KRP	P	10	17	12.0		1.7	5.41	214		4.2	
TUA	EP	10	17	13		0.3	5.59	198		4.9	4.6
	ES		18	18		1.2					
TRZ	EP	10	17	21.5		-1.4	6.37	198			
	ES		18	37		1.8					
CNZ	E	10	17	33.5			6.47	208			
	E		18	47							
MNG	EP	10	17	41		0.1	7.75	203			
	ES		19	07		-0.5					
WEL	ES	10	19	27		-0.0	8.59	204			

	H	M	S							72/ 647
DEC 20	10	36	09.4	45.24S	167.60E	115 KM	SE	1.5	AVG MAG	4.3
	+-		1.2	0.06	0.05	13				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP	10	36	26.2	U	-1.1	0.54	179		4.5	4.6
	ES			36		-3.0*					
MSZ	IP	10	36	27.9	U	0.1	0.61	21			
	I			28.1							
ROX	P	10	36	35.9		1.9	1.23	102		4.3	4.4
	S			53.3		0.7					
WPZ	P	10	36	39.4		0.4	1.67	149		4.2	4.7
	E			52.5							
	S			59.2		-2.1					
OHZ	IP	10	36	49.2	D	1.5	2.35	87		4.5	4.5
	ES		37	17		0.4					
MJZ	P	10	36	49.1	U	0.7	2.40	60		3.8	4.1
	E		37	02							
	ES			18		0.3					
GPZ	ES	10	37	53		-1.4	3.92	69	4.2		
COB	EP	10	37	32		0.5	5.59	44		4.1	3.8
	ES		38	33		-2.0					

	H	M	S								72/ 648
DEC 20	14	40	39.1	34.52S	178.63E	241 KM	SE	2.3	AVG MAG		3.9
		+-	2.8	0.23	0.34	38					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	ES	14	42	19		3.5	3.17	181			4.4
WTZ	EP	14	41	39		-0.6	3.70	201		3.8	3.9
	ES		42	26		-0.5					
GNZ	EP	14	41	46		1.2	4.15	187			3.5
	ES		42	34		-1.8					
KRP	E	14	41	54			4.22	215			
TUA	EP	14	41	48		-0.4	4.44	195			
	ES		42	39		-3.3					
TRZ	ES	14	43	01		1.4	5.23	196			
MNG	EP	14	42	14		-1.0	6.58	201			
	ES		43	28		-2.1					
WEL	ES	14	43	50		1.0	7.41	203			
COB	ES	14	44	06		2.5	8.05	214			

	H	M	S								72/ 649
DEC 20	17	55	10.2	33.75S	179.72E	473 KM	SE	2.8	AVG MAG		4.7
		+-	2.7	0.26	0.33	26					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	E(P)	17	56	24		-3.9	4.05	193		5.1	4.8
	E		57	50							
GDZ	E(P)	17	56	28		-1.8	4.26	234			
	E			47.5							
WTZ	EP	17	56	37.5		3.1	4.77	207		4.9	4.1
	E		57	03							
	ES			40		-0.9					
GNZ	E	17	56	44.5			5.07	195		5.5	4.7
	ES		57	47		1.0					
AUC	EP	17	56	37		-0.4	5.09	231			
KRP	E	17	56	42.5	USE		5.38	218		4.9	3.9
	ES		57	53		1.8					
TUA	EP	17	56	43		2.0	5.46	202		4.7	4.6
	E		58	01							
CRZ	E?	17	56	22			5.88	261		4.9	
TRZ	E	17	56	53			6.24	201			
	E		58	25							
CNZ	E	17	56	52.0			6.39	211			
MNG	EP	17	57	02.9		-0.5	7.64	205			
WEL	EP	17	57	10.5		-2.0	8.49	206			
	E		58	11							
COB	E?	17	57	14			9.19	215			
	EP			24		3.9					
	ES		59	01		-2.3					

MANY ARRIVALS MASKED BY A DISTANT SHOCK

	H	M	S								72/ 650
DEC 21	00	55	47.8	38.31S	176.09E	176 KM	SE	1.3	AVG MAG		3.7
		+-	1.9	0.07	0.07	13					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	00	56	11.8	U	-0.8	0.58	311		3.5	
WTZ	ES	00	56	34		0.2	0.78	66			3.1
CNZ	P	00	56	17.0		1.9	0.98	205		3.2	
GNZ	EP	00	56	21.3		1.1	1.56	103		4.3	4.2
	ES			44		-1.3					
MNG	IP	00	56	28.2	D	-0.8	2.35	191		3.7	3.8
	S		57	01.0		0.3					
WEL	ES	00	57	18		0.3	3.14	198			3.9
COB	ES	00	57	31.5		-0.9	3.79	222			3.8

	H	M	S								72/ 651
DEC 21	03	41	39.5	40.38S	176.54E	12 KM	SE	1.4	AVG MAG		5.2
		+-	0.3	0.02	0.02	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	03	41	57.8	U	2.8	0.84	254			

TRZ	P*	03	41	56.9	U	1.5	0.86	14			
CNZ	IPN	03	42	05.7	U	1.1	1.41	327			
WEL	IPN	03	42	07.9	D	0.5	1.62	236	5.2	5.6	5.4
	PG			14.0		1.6					
	ESN			29.5		1.5					
TUA	IPN	03	42	06.3	U	-1.4	1.64	17		5.2	5.6
	EPG			13.5		0.7					
	ES*			30		-0.5					
WNZ	PG	03	42	14.9		-0.8	1.78	349		5.8	5.9
	ESG			38		-1.7					
GNZ	PN	03	42	12.8		-0.7	2.08	34		5.8	5.7
	P*			16.2		-0.0					
	E			24							
	ESG			51		1.3					
WTZ	PN	03	42	17.2		-0.9	2.42	8		5.1	4.9
	EPG			27		-1.5					
	ESG		43	02		0.8					
KRP	PN	03	42	20.2	UNW	-0.2	2.58	342		5.2	5.1
	EP*			27.3		2.8					
	ESG		43	07		0.5					
COB	EPN	03	42	27		1.1	2.98	255			
	EPG			37		-2.8					
ECZ	PN	03	42	27.4		-0.1	3.11	31		5.3	5.1
	E			47							
	E		43	50							
GBZ	PN	03	42	42.5		-0.4	4.24	348		4.4	3.9
	EPG		43	01		-4.3*					
	ES*			48		-0.7					
GPZ	E	03	42	50			4.40	220	5.5		
	ESN		43	32.5		-2.5					
ONE	EPG	03	43	18		-0.9	4.91	339	5.2		
	ESG		44	20		-5.1*					
MJZ	EPN	03	43	04.0		0.7	5.77	229		4.6	4.7
	EP*			17		-2.4					
	ESN		44	07		-0.9					
CIZ	EPN	03	43	11		1.4	6.24	127			
	ESN		44	18		-1.0					
OHZ	EPN	03	43	10		0.2	6.25	220			
	ESN		44	19		-0.3					
CRZ	E	03	43	22			6.69	331			
MSZ	E	03	43	35			7.68	233			
	E			48							
	ESN		44	54		0.8					
MNW	E	03	43	48			8.47	228			
	ESN		45	12.5		0.5					

FELT IN SOUTHERN HAWKES BAY AND WELLINGTON. MAXIMUM INTENSITY MM V - VI

	H	M	S							72/ 652
DEC 21	04	00	15.3	40.52S	176.93E	12 KM	SE	1.6	AVG MAG	3.9
		+-	1.3	0.05	0.05	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ	PG	04	00	35.9		0.8	0.97	355		4.0	4.2
	ES*			45.5		-0.6					
MNG	P*	04	00	34.9		-0.5	1.11	265		4.1	3.9
	E			35.1							
	ES*			48		-2.3					
CNZ	PN	04	00	43.7		-0.5	1.70	321		4.3	4.2
	ESN		01	05		-0.4					
WEL	ESN	04	01	07		-1.0	1.81	244		4.1	
GNZ	ESN	04	01	13		-0.8	2.06	25			3.9
TNZ	EPG	04	01	06		2.5	2.37	303			
	ES*			29		0.7					
WTZ	EPG	04	01	07		0.4	2.53	1		3.4	
KRP	EP*	04	01	03		-1.5	2.81	337		3.3	
COB	EP*	04	01	15		3.2	3.24	259			3.5
	ES*			54		-0.2					

	H	M	S									72/ 653
DEC 21	04	23	14.8	40.21S	176.59E	12 KM	SE 1.4		AVG MAG			4.3
		+-	0.6	0.03	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		P*	04	23	28.5		0.9	0.69	16		4.6	5.0
			S*			38.8		1.8					
	MNG		IP*	04	23	29.9	U	-1.9	0.93	244		4.5	4.4
			ES*			43		-1.4					
	CNZ		PN	04	23	37.1		-1.2	1.29	321			
			IP*			38.0		0.1					
	TUA		EPN	04	23	38		-2.7	1.47	18		4.5	4.5
			ES*		24	01		0.3					
			E			15							
	WEL		P*	04	23	46.0		0.3	1.74	231	3.8	4.5	4.5
			EPG			50.5		0.4					
			E		24	01							
			ES*			10		1.1					
	GNZ		EPN	04	23	49		2.3	1.92	36		4.7	4.4
			E		24	34							
	TNZ		EP*	04	23	50		0.2	1.98	300		4.1	3.9
			ESG		24	22		0.3					
	WTZ		EPN?	04	23	50		-1.1	2.25	8		4.0	3.9
			ESN		24	18		0.0					
	KRP		EPN	04	23	51		-2.5	2.42	340		4.1	3.8
			EP*			58		0.6					
			ES*		24	29		-0.3					
	COB		EP*	04	24	09		0.9	3.05	252		4.2	4.4
			ES*			50		1.8					
	GPZ		E	04	25	06			4.55	219	4.2		

FELT PORANGAHAU (64) AND DANNEVIRKE (63) MM IV

	H	M	S									72/ 654
DEC 21	07	36	46.4	40.39S	176.69E	12 KM	SE 1.5		AVG MAG			4.0
		+-	0.8	0.04	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		P*	07	37	02.6		0.7	0.84	7		4.2	4.5
			E			08.9							
			ES*			14.6		1.2					
	MNG		IP*	07	37	04.1	U	0.3	0.95	256		4.1	4.1
			ES*			16		-0.7					
	CNZ		IPN	07	37	12.1	U	-0.4	1.48	323		4.5	4.6
			ESN			32		0.2					
	TUA		E	07	37	49			1.62	13			3.9
	WEL		EPN	07	37	14		-1.5	1.71	238	3.6	4.1	4.0
			ESN			35.5		-1.4					
	GNZ		E?	07	37	02			2.03	31			4.0
			ESN			45		0.8					
	TNZ		EP*	07	37	23		-1.3	2.15	303			
			ESG			58		-1.0					
	WTZ		EPN	07	37	23.5		-1.5	2.41	6		3.6	3.5
			ESN			52		-1.7					
	KRP		EP*	07	37	34		1.6	2.62	340		3.5	3.4
			E		38	10							
	COB		EP*	07	37	43		2.6	3.09	256		3.9	3.9
			ES*		38	23		2.1					

	H	M	S									72/ 655
DEC 21	13	55	20.8	40.31S	176.66E	12 KM	SE 1.1		AVG MAG			4.4
		+-	0.3	0.02	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TRZ		IP*	13	55	37.1	D	2.1	0.77	9		4.5	5.0
			ES*			48.3		3.0*					
	MNG		IP*	13	55	38.8	U	0.6	0.95	251		4.6	4.4
			ES*			50		-1.1					
	CNZ		IPN	13	55	46.4	D	0.6	1.40	322		4.9	
			IP*			46.7		0.8					
	TUA		IP*	13	55	48.7	U	0.3	1.55	14		4.4	4.4

	ES*		56 08		-1.0					
	E		28							
WEL	EPN	13	55 49		-1.2	1.74	235	4.1	4.6	4.6
	EPG		56		-0.0					
	E		56 01							
	E		04							
	ESN		10.9		-1.0					
GNZ	EPN	13	55 53		-0.3	1.97	33		4.5	4.3
	ESN		56 18		0.8					
	E		42							
TNZ	EP*	13	55 58		0.4	2.09	302		4.1	3.9
	ESG		56 32		0.8					
WTZ	EPN	13	55 57		-1.3	2.34	6		4.0	3.9
	ESN		56 26		-0.1					
KRP	EPN	13	56 02		0.9	2.54	339		4.1	3.8
	E		06							
	EPG		10		-2.2					
	ES*		38		-0.7					
COB	EPN	13	56 07.5		-1.0	3.09	254		4.5	4.4
	E		17.5							
	ES*		57		1.8					
GPZ	E	13	57 13			4.52	220	4.4		
CIZ	EPN	13	56 52		1.4	6.21	128			
	ESN		57 59		-0.7					

FELT DANNEVIRKE (63) 4M IV

	H	M	S										72/ 656
DEC 21	17	32	32.1	40.34S	176.87E	12 KM	SE	1.4	AVG	MAG			4.0
		+-	0.7	0.03	0.04	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ			P*	17	32	50.5		0.5	0.98	358		4.4	4.6
			ES*		33	04		0.7					
MNG			IP*	17	32	52.0	U	0.7	1.06	265		4.4	4.3
			ES*		33	05		-0.6					
GNZ			IPN	17	33	00.0	U	-0.7	1.68	322		4.8	
			ES*		23			-1.2					
TUA			EPN	17	33	01.5		0.0	1.74	7		3.8	4.0
			ESG		33			2.2					
WEL			PN	17	33	02.7		0.9	1.76	244	3.6	4.2	4.3
			EPG			09.3		1.6					
			ESN			23.5		-0.2					
GNZ			E	17	33	22			2.09	26		4.3	4.2
			ESN			33		1.6					
			E			59							
TNZ			EPN	17	33	11		1.4	2.34	304		3.8	3.6
			ES*			48		3.9*					
WTZ			EP*	17	33	16		-0.8	2.55	2		3.8	3.4
			ESN			40		-3.0					
			ESG			56.5		-1.6					
KRP			EP*	17	33	20		-1.2	2.81	338		3.8	3.5
			E			23							
			ES*			58		-0.0					
COB			EP*	17	33	28		0.3	3.19	259		3.9	3.9
			E			30.5							
			ES*		34	11		1.5					
GPZ			ESN	17	34	26.5		-2.3	4.46	223	4.2		

FELT DANNEVIRKE (63) 4M IV

	H	M	S										72/ 657
DEC 21	18	47	50.4	40.33S	176.62E	12 KM	SE	1.1	AVG	MAG			4.4
		+-	0.3	0.02	0.02	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TRZ			P*	18	48	06.2		1.2	0.79	12		4.9	5.2
			PG			06.7		0.2					
			E			11							
			ES*			16		0.2					
MNG			IP*	18	48	07.9	U	0.9	0.91	251		4.6	4.4
			ESG			21		-0.3					

CNZ	IPN	18 48 15.0	-0.3	1.40	324	4.8			
	ES*	36	2.0						
TUA	PN	18 48 17.9	0.3	1.58	15	4.4	4.5		
	E	29							
	SN	38.1	0.3						
	E	51							
WEL	PN	18 48 17.9	-1.3	1.70	235	4.2	4.2		
	PG	23.6	-1.1						
	SN	39.0	-1.5						
GNZ	EPN	18 48 22.5	-0.8	2.00	33	4.4	4.8		
	E	39							
	ESN	47	-0.6						
TNZ	EP*	18 48 27	0.2	2.07	303	4.2	4.1		
	ESG	49 01	0.9						
WTZ	PN	18 48 26.8	-1.3	2.36	7	4.2	4.1		
	EP*	31	-0.8						
	E	40.9							
	ESN	56	-0.3						
KRP	EPN	18 48 30	-0.8	2.54	340	4.4	4.0		
	EP*	35.5	0.5						
	E	39.0							
	ESG	49 14.5	-1.6						
ECZ	E	18 49 18.0		3.03	30		4.4		
COB	EPN	18 48 37	-0.5	3.05	254	4.4	4.5		
	EP*	46	2.4						
	ES*	49 27	3.5*						
GPZ	E	18 49 42		4.48	220		3.7		
CIZ	EPN	18 49 21	0.7	6.23	128				
	ESN	50 31	1.4						

FELT PORANGAHAU (64) MM V

H M S 72/ 658

DEC 22 10 24 56.0 37.05S 176.94E 238 KM SE 1.8 AVG MAG 4.0

+- 2.2 0.14 0.16 16

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	P	10 25 30.0		0.4	0.94	178		3.5	
	ES	54		-1.7					
GNZ	P	10 25 37.0		0.9	1.81	152		4.5	4.4
	ES	26 07.5		0.4					
	E	09.8							
TRZ	EP	10 25 41		-1.9	2.51	182			
	ES	26 22		2.8					
	E	28							
MNG	P	10 25 56.1		-0.7	3.74	197		4.3	3.7
	I	56.8							
	ES	26 44		0.0					
WEL	ES	10 27 00		-1.5	4.56	201			3.8
COB	ES	10 27 17		1.4	5.20	218			3.8

H M S 72/ 659

DEC 22 11 36 30.9 34.00S 178.65W 291 KM SE 2.0 AVG MAG 4.5

+- 2.0 0.12 0.18 38

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP?	11 37 43		2.2	4.32	211		4.8	
	E	50							
WTZ	EP	11 37 50		-2.2	5.31	220		4.3	4.0
	ES	38 53		-3.0					
GNZ	EP	11 37 53		0.3	5.35	209		4.8	4.5
	ES	38 56		-0.8					
TUA	EP	11 37 59		0.1	5.86	214			
	ES	39 10		2.2					
KRP	P	11 38 00.9		-1.1	6.12	229			
	E	39 20							
TRZ	EP	11 38 09		0.9	6.62	212			
	ES	39 27		2.7					
MNG	EP	11 38 26.5		0.4	8.08	214			
	ES	39 56		-0.7					
CIZ	ES	11 40 40		-1.1	10.07	171			

	H M S								72/ 660
DEC 23	05 00 45.8	44.76S	166.66E	12 KM	SE 1.3	AVG MAG	5.8		
	+- 0.9	0.04	0.06	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP*	05 01 01.1	U	-1.1	0.90	85			
MNW	IP*	05 01 05.9		-1.9	1.23	147			
ROX	IPN	05 01 18.9	U	0.1	2.01	112			
	P*	19.4		-1.9					
WPZ	IPN	05 01 24.0	D	-0.7	2.44	142		5.6	5.7
	E	56.5							
MJZ	IPN	05 01 29.3	UNE	-0.9	2.83	76			
	E	30.2							
	IP*	33.5		-1.8					
	E	37							
ONZ	IPN	05 01 32.8	U	-0.0	3.04	97		6.2	6.1
	EP*	40		1.2					
	EPG	49		1.5					
	ESN	02 09		0.9					
KAI	EPN	05 01 47		-0.2	4.10	59	6.0		
	E	02 01.5							
	E	23							
	E	03 01							
COB	PN	05 02 08.7		-0.8	5.77	53		5.5	5.4
	E	17.5							
	EPG	44		1.6					
	E	03 11							
WEL	EPN	05 02 25		0.5	6.88	63	5.7		
	E	27.9							
	E	03 46							
MNG	PN	05 02 35.7		0.3	7.70	61			
	E	38.8							
	E	47.5							
	E	04 08							
CBZ	EPN	05 02 40		1.0	7.97	169			
	ESN	04 08		1.5					
TNZ	EPN	05 02 40		0.7	8.00	49			

	H M S								72/ 661
DEC 23	08 09 37.6	38.01S	176.67E	12 KM	SE 1.4	AVG MAG	4.0		
	+- 0.4	0.03	0.02	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IP*	08 09 41.8	U	-1.3	0.25	85			
	ES*	43		-1.9					
TUA	PG	08 09 55.8		0.1	0.89	155		4.3	4.2
	SG	10 07.8		0.1					
KRP	IPG	08 09 55.8	UW	-0.1	0.90	275		3.7	3.4
	ES*	10 06		-0.2					
	ESG	09		0.9					
GNZ	EPG	08 10 02		-0.8	1.24	121		4.8	4.6
	ESG	22		2.4					
CNZ	EPG	08 10 09		1.4	1.48	216		3.5	
ECZ	EP*	08 10 05		0.3	1.52	79		4.4	4.1
	ESG	30		1.0					
TRZ	EPG	08 10 10		1.0	1.55	176		4.1	
TNZ	EPG	08 10 20		-1.1	2.15	236			
HNG	E?	08 10 09			2.77	199		3.6	
	EPG	31		-2.6					
ONE	EPG	08 10 37		0.8	2.89	320	3.4		
FELT EDGECUMBE (27) MM IV									

	H M S								72/ 662
DEC 23	19 41 47.2	40.71S	173.55E	156 KM	SE 1.8	AVG MAG	3.9		
	+- 1.2	0.06	0.05	11					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IP	19 42 12.4	D	1.8	0.72	239		4.2	4.3
	E	22							
	ES	28		-0.6					

	WEL	IP	19 42 16.5	U	3.2	1.09	122	4.0	4.2	4.5
		S	33.9		0.3					
	MNG	IP	19 42 19.5	U	2.4	1.47	87		4.4	4.0
		S	39.5		-0.7					
	TNZ	ES	19 42 43		-0.7	1.65	23			3.8
	KAI	ES	19 42 58		-1.4	2.42	221	3.5		
	TRZ	ES	19 43 06.5		-0.7	2.76	66			3.9
	GPZ	ES	19 43 12		-1.6	3.05	192	4.0		
	KRP	EP	19 42 39		1.2	3.18	30			3.3
		E	43 12							
	WTZ	S	19 43 30.2		-1.0	3.81	45			3.5
	MJZ	E	19 42 53			3.99	214		3.4	3.2
		ES	43 35		-0.2					
	GNZ	ES	19 43 34		-2.1	4.02	61			4.3

	H M S							72/ 663
DEC 24	12 21 03.6	38.44S	175.74E	191 KM	SE 0.8		AVG MAG	4.0
	+- 0.7	0.03	0.03	6				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	12 21 29.9	D	-0.1	0.54	343		3.9	3.1
	ES	50.5		0.2					
CNZ	IP	12 21 32.2	U	1.0	0.77	191		4.1	3.3
	E	59							
WTZ	EP	12 21 32.5		-0.8	1.09	65		3.5	3.4
	ES	55		-1.2					
TUA	P	12 21 34.1		0.2	1.17	109		4.3	4.1
	ES	58		0.7					
TRZ	P	12 21 36.9	D	1.1	1.39	143		4.3	3.9
	E	22 06							
GNZ	IP	12 21 40.1	D	0.3	1.80	97		4.6	4.4
	S	22 07.3		-0.3					
MNG	IP	12 21 44.1	U	0.3	2.18	185		4.1	4.0
	E	22 13							
WEL	IP	12 21 51.8	D	-0.9	2.94	194	4.2	4.2	4.0
	ES	22 30		-0.5					
COB	EP	12 21 59.3		-0.2	3.51	220			3.9
	ES	22 41		-1.9*					

	H M S							72/ 664
DEC 25	16 02 00.3	38.70S	175.15E	229 KM	SE 1.0		AVG MAG	3.9
	+- 1.0	0.06	0.07	12				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	16 02 32.9	D	0.6	0.83	21		3.7	
TRZ	ES	16 03 06		0.1	1.55	124			3.8
TUA	EP	16 02 39		1.6	1.57	95			
	ES	03 06		-0.1					
WTZ	EP	16 02 36		-1.8	1.61	64			
MNG	IP	16 02 41.2	U	0.5	1.93	173		4.4	3.9
	ES	03 11		-0.8					
GNZ	P	16 02 43.3		-0.5	2.25	89		4.4	3.9
	ES	03 14		-3.4*					
WEL	EP	16 02 47.5		0.0	2.60	186		3.7	3.9
	ES	03 25		0.9					
COB	P	16 02 52.0		-0.2	3.02	217		3.9	
	ES	03 32		-0.4					

	H M S							72/ 665
DEC 26	09 26 57.0	37.93S	176.71E	12 KM	SE 2.2		AVG MAG	3.4
	+- 1.4	0.10	0.05	8				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	IPG.	09 27 00.6	D	-1.5	0.23	105			
	ISG	03.5		-2.0					
KRP	EIP*	09 27 15		1.1	0.93	270		2.7	
TUA	EP*	09 27 13.3		-1.0	0.95	159		3.5	3.4
	ES*	25		-2.1					
GNZ	EIP*	09 27 21.0	UD	1.4	1.26	125		4.0	
	IPG	21.3		-1.0					
	IS*	39.3		3.3					

		ISG			41.3		1.8						
		I			46.9								
FELT EDGECUMBE													
	H M S												72/ 666
DEC 26	22 45 20.6		41.56S		172.09E		12 KM	SE	1.5	AVG MAG			4.0
	+- 0.5		0.04		0.04		R						
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	COB	P*	22	45	34.0		0.8	0.67	46		3.9	4.2	
		ES*			43.5		1.0						
	KAI	P*	22	45	41.0		0.6	1.09	207	4.1			
		ES*			54		-1.1						
	WEL	EPN	22	45	55		1.1	2.03	83		4.4	4.5	
		ES*		46	26		2.7						
	GPZ	EPG	22	46	03		-1.7	2.18	169	3.6			
		ESN			21		-1.1						
	HJZ	EPN	22	46	03		-0.3	2.71	206		3.6	3.7	
		ESN			37		1.6						
	MNG	EPN	22	46	05		1.4	2.73	71		4.2	4.1	
		EP*			07.3		-1.1						
		ES*			43.5		-0.8						
	CNZ	EP*	22	46	23		0.8	3.54	49		4.3	4.5	
		ESG		47	17		-2.9						
	MSZ	EPN	22	46	26		0.5	4.36	223		3.8	4.0	
		ESN		47	15		-0.0						
		E			39								
	KRP	E	22	46	30			4.50	37		3.7	3.5	
		ESN		47	17		-1.3						
FELT MURCHISON (80) MM V													
	H M S												72/ 667
DEC 27	04 40 43.0		33.43S		168.14E		33 KM	SE	1.3	AVG MAG			4.8
	+- 0.5		0.03		0.05		R						
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CRZ	P	04	41	39.4		-0.4	3.91	106		5.1	4.7	
		E			39.9								
		ES		42	23		-0.4						
	NIA	IP	04	41	45.6		-0.6	4.37	358				
		ES		42	34		-0.7						
	ONE	P	04	42	06		2.6	5.64	116	4.7			
	AUC	P	04	42	14.0		0.0	6.43	124				
	GBZ	EP?	04	42	17.5		0.5	6.65	117				
	KRP	P	04	42	28		-0.5	7.51	129				
		ES		43	48		-2.0						
	TNZ	EP	04	42	31		0.7	7.64	141				
		ES		43	52		-1.2						
	CNZ	EP	04	42	39		-0.1	8.30	136				
		I			40.5								
		ES		44	10		1.0						
	COB	E	04	42	50			8.48	156				
		ES		44	07.5		-5.7*						
	WTZ	E?	04	42	47.5			8.51	125				
		E			50								
	MNG	EP	04	42	54		2.0	9.27	143				
		ES		44	32		-0.1						
	WEL	ES	04	44	37		0.6	9.45	148				
	GNZ	E	04	43	00			9.55	126				
	HJZ	EP	04	43	10		-0.9	10.70	171				
		ES		45	04		-1.8						
	MSZ	EP	04	43	17		-0.8	11.23	181				
		ES		45	11		-7.2*						
	MNW	EP	04	43	34		1.8	12.35	182				
	H M S												72/ 668
DEC 27	17 19 16.5		38.14S		176.73E		12 KM	SE	1.3	AVG MAG			4.0
	+- 0.4		0.03		0.02		R						
			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WTZ	IP*	17	19	21.0	D	-0.3	0.22	47				

		ES*			24		-0.8				
	TUA	IP*	17	19	29.3	U	-0.5	0.73	157	4.3	4.3
		ES*			42		2.0				
	KRP	EP*	17	19	35	DSE	0.3	1.01	282	4.3	3.4
		ES*			50		1.6				
	GNZ	IPG	17	19	39.3	U	0.5	1.10	118	4.6	4.4
		E			58						
	TRZ	EPG	17	19	44.5		-0.6	1.41	179	4.1	4.0
		E		20	18.5						
	CNZ	EPG	17	19	43		-2.6	1.43	222	4.0	3.5
		E		20	11						
	ECZ	EPG	17	19	46.5		0.4	1.46	73	4.7	
	MNG	EP*	17	20	04		0.7	2.67	202	3.6	3.3
		ESG			46		-0.7				
	COB	E	17	20	24			4.30	225		

	H	M	S									72/ 669
DEC 28	12	36	50.5	37.52S		176.61E		223 KM	SE	0.7	AVG MAG	4.2
		+-	0.5	0.02		0.03		4				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WTZ	P	12	37	19.7	D	-0.9	0.55	147		3.9	3.6
	S			41		-2.8*					
KRP	P	12	37	22.8	D	0.3	0.94	244			
	S			47		-0.3					
TUA	P	12	37	25.3		0.2	1.35	162		3.8	4.3
	S			52.3		0.2					
ECZ	P	12	37	26.3		-0.4	1.54	97		4.6	4.2
	ES			56		1.0					
GNZ	P	12	37	27.8	D	0.6	1.58	136		5.3	5.0
	S			54		-1.5					
AUC	P	12	37	27.5		0.1	1.61	294			
TRZ	EP	12	37	32		0.6	2.03	175		3.9	4.2
	S		38	06		3.0*					
ONE	EP	12	37	36		-0.3	2.51	313			
MNG	P	12	37	44.7		0.4	3.22	196		4.4	4.1
	S		38	26		-0.0					
WEL	P	12	37	54		0.0	4.02	200	4.0	3.9	4.1
	S		38	44		0.8					
COB	ES	12	38	58		0.7	4.66	219			3.8
GPZ	ES	12	39	47		-0.5	6.87	205	4.4		
MJZ	S	12	40	12		-0.9	7.96	214			

	H	M	S									72/ 670
DEC 28	13	38	12.7	49.64S		164.34E		33 KM	SE	1.1	AVG MAG	4.3
		+-	1.1	0.09		0.10		8				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WPZ	PN	13	39	14		-0.1	4.24	47		4.3	4.5
	SN		40	00		-1.2					
MNW	PN	13	39	17		0.1	4.45	31		5.0	4.1
	SN		40	05.3		-0.7					
ROX	PN	13	39	29.3		0.3	5.36	41		4.2	4.2
	SN		40	28		-0.1					
HSZ	PN	13	39	32		0.4	5.54	28		4.1	4.0
	SN		40	33		0.6					
OMZ	EPN	13	39	43		-0.1	6.39	47			
	SN		40	54		1.1					
MJZ	PN	13	39	49.3		-2.4	7.04	39			
	ESN		41	08		-0.5					
GPZ	SN	13	41	38		0.9	8.24	47	4.6		
COB	PN	13	40	38		1.6	10.39	38			
	ESN		42	24		-4.0*					

	H	M	S									72/ 671
DEC 28	14	38	20.4	34.38S		179.66W		234 KM	SE	1.1	AVG MAG	4.6
		+-	0.9	0.04		0.05		9				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	14	39	19.3		-0.0	3.62	203		4.6	4.4
WTZ	P	14	39	29.3		-0.7	4.51	216		4.5	4.2

	S		40 25		0.5					
GNZ	P	14	39 30		-2.0	4.65	203		4.6	4.8
	S		40 27		-0.7					
ONE	P	14	39 39		1.5	5.10	252			
TUA	P	14	39 37		-0.7	5.11	209		4.6	4.4
	S		40 38.5		0.6					
KRP	P	14	39 40		0.5	5.26	226			
TRZ	EP	14	39 47		-0.4	5.88	208		4.5	4.4
	S		40 57		1.7					
CRZ	P	14	39 54		0.9	6.33	267			
MNG	EP	14	40 05		-0.8	7.33	210			
	S		41 27.5		-0.8					
WEL	S	14	41 47		-0.9	8.18	211	4.9		
COB	S	14	42 07		0.2	9.01	220			
CIZ	S	14	42 28		1.7	9.86	167			
GPZ	ES	14	42 54		0.2	11.06	210	4.9		
MJZ	S	14	43 21		-0.4	12.27	216			

72/ 672

H	M	S										
DEC 29	08	45	30.5	41.22S	174.86E	33 KM	SE	1.5	AVG MAG		3.9	
		+-	0.4	0.02	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL		IP*	08	45	37.2	D	1.1	0.10	229	4.0		
			S*			41.5		1.4					
	MNG		IP*	08	45	45.6	D	0.2	0.76	38		4.3	4.3
			S*			55.5		-0.6					
	COB		IPN	08	45	57.9	U	2.0	1.61	274		4.4	4.4
			P*			58.5		-1.0					
			S*		46	20		-1.1					
	TNZ		PN	08	46	03		0.9	2.07	350		3.8	3.8
			P*			06.5		-0.7					
			SN			25.5		-0.5					
			S*			32.5		-2.1					
	ONZ		PN	08	46	04.8		2.4	2.09	15		4.4	4.7
			P*			07		-0.6					
			S*			34		-1.2					
	TRZ								2.24	43		3.8	3.9
	KAI		S*	08	46	59		-0.3	2.89	242	3.6		
	GPZ		SN	08	46	46		-1.9	2.97	213	3.2		
	KRP		P*	08	46	27		-1.9	3.33	9			
			S*		47	14		1.4					
	GNZ		SN	08	47	03.5		1.6	3.54	44			3.9
	WTZ		SN	08	47	05		1.0	3.63	28		3.4	3.2
	MJZ		PN	08	46	34		1.8	4.26	228		3.2	3.2
			P*			46		1.3					
			SN		47	20		0.5					
	HSZ		P*	08	47	15.5		-1.5	6.15	234			
			SN		48	05.5		0.5					
	CIZ		SN	08	48	20		-2.6	6.89	116			

FELT WELLINGTON (6B) MM IV

72/ 673

H	M	S										
DEC 29	12	01	27.0	44.40S	167.28E	12 KM	SE	1.5	AVG MAG		5.1	
		+-	0.6	0.02	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ		IP*	12	01	38.1		1.1	0.53	121			
	MNW		PN	12	01	51		-0.9	1.40	170			
	ROX		IPN	12	01	57.8	D	0.6	1.80	127		5.4	5.4
			PG		02	04		0.5					
			SN			20		0.5					
	MJZ		IPN	12	02	04.3	D	0.0	2.33	81		4.8	4.8
			EPG			18		3.9*					
			SN			32		-0.1					
	WPZ		PN	12	02	06.2	U	-0.8	2.51	155		5.0	4.9
			P*			09.5		-1.5					
			ESN			35		-2.0					
	OHZ		IPN	12	02	09.3	D	0.1	2.67	106		5.3	5.2
			P*			17		3.2					

		SN			40		-0.9				
		S*			51.5		2.6				
	KAI	EPN	12	02	19.5		-1.3	3.54	59	5.2	
		EPG			40		1.4				
		SN		03	00		-1.5				
	GPZ	PN	12	02	25		-1.1	3.93	82	4.7	
		EP*			36		0.7				
		SN		03	10.5		-0.4				
	COB	PN	12	02	42.8		-0.4	5.20	52		5.0 5.3
		SN		03	40		-1.7				
	WEL	PN	12	02	57.4		-0.8	6.32	63	5.3	
		SN		04	06		-2.4				
	MNG	PN	12	03	07.5		-1.7	7.14	61		
		SN		04	26		-1.9				
	TNZ	PN	12	03	14		1.0	7.43	48		
		SN		04	34		-0.8				
	CNZ	PN	12	03	24		2.5	8.07	53		
		SN		04	52		2.0				
	TRZ	EP*	12	03	53		-2.2	8.60	59		
		SN		05	02		-0.6				
	KRP	PN	12	03	34		0.6	8.97	47		
		SN		05	12		0.5				
	WTZ	SN	12	05	30		0.9	9.72	52		
	GNZ	SN	12	05	31		-2.1	9.89	58		
	ONE	EPN	12	03	52		2.8	10.18	35	5.1	
		SN		05	40		0.3				
	CRZ	PN	12	03	59.5		2.2	10.79	25		
		SN		05	55		0.9				
	CIZ	SN	12	06	14		0.9	11.61	93		
		E			17						

	H	M	S										72/ 674
DEC 31	20	56	05.0	38.11S		176.38E		167 KM		SE	1.8	AVG MAG	4.3
		+-	1.2	0.06		0.04		8					
				H	M	S	DIR	RES		DIST	AZ	W-A	W P W S
	WTZ		IP	20	56	27.7	U	-0.7		0.50	75		
			S			43		-3.4					
	KRP		P	20	56	31		1.6		0.69	285		
			S			49.5		1.2					
	TUA		IP	20	56	31.2	U	0.3		0.92	139		4.8 4.2
			S			51		0.1					
	CNZ		P	20	56	36		2.1		1.27	211		3.9 3.6
	GNZ		IP	20	56	35.2	U	0.0		1.40	113		5.1 5.0
			S			57		-1.3					
	TRZ		P	20	56	37.8	D	1.8		1.48	167		4.7 4.5
			S			57 02		2.2					
	ECZ		P	20	56	39		0.1		1.76	77		4.5 4.2
			S			57 03.5		-1.5					
	TNZ		P	20	56	47.5		7.1*		1.90	235		
	MNG		IP	20	56	49.4	U	0.6		2.60	195		4.6 4.2
			S			57 23		0.7					
	WEL		P	20	56	59.0	D	0.1		3.40	201	4.3	4.1 4.4
			S			57 40		-0.2					
	COB		EP	20	57	08.5		0.8		4.09	222		3.4 3.8
			S			56.4		0.4					
	GPZ		S	20	58	44		-2.9		6.25	206	4.2	
	MJZ		S	20	59	10		-3.6		7.38	215		
	CIZ		E	20	59	23				7.90	140		
			ES			28		1.9					

FELT EARTHQUAKES

THE FELT REPORTING SYSTEM

In addition to its instrumental network, the Observatory has organised a network of about 400 voluntary observers covering the country, who describe the effects of any earthquakes they feel on a standard form. The Observatory also received many unsolicited reports from meteorological observers, radio and newspaper reporters, postmasters and members of the general public. In the case of large earthquakes, or ones that present features of special interest, questionnaires are issued or the district visited.

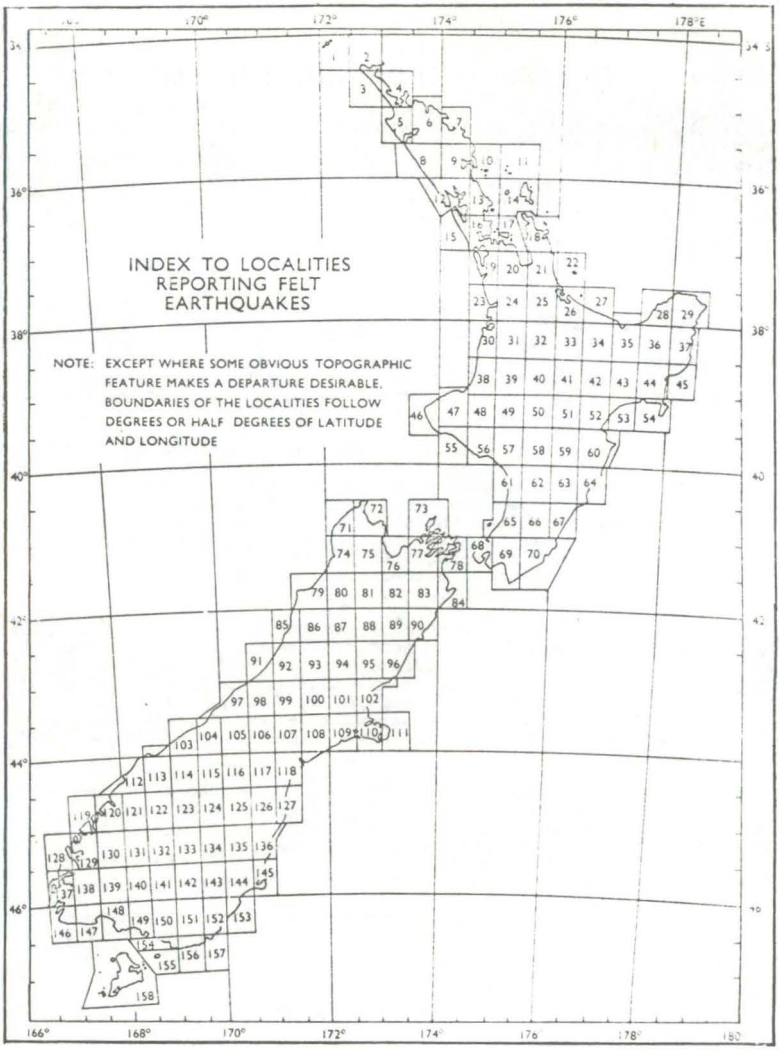
Several difficulties arise in assessing the distribution of felt intensity. The population of the country is very unevenly distributed, and the observer's personal circumstances may prevent him from feeling a shock that has been noticed by others. Similar shortcomings affect lists of earthquakes felt at any one place. It may reasonably be assumed that a strong earthquake reported from one township was felt in another a few miles distant, even though the Observatory has received no report. However, an index of this kind must summarise the data and not the deductions, so the following scheme is used.

The land area of New Zealand has been divided into numbered rectangles, with sides measuring half a degree of latitude or longitude, as shown on the accompanying map. Each rectangle is given a number and a name, usually that of the principal centre of population within it. These areas are termed 'localities', and the names are listed on the following page. In most areas, there are at least two well-separated reporters, but there are still some sparsely populated parts of the country without observers, notably in Fiordland, the mountainous parts of Southland, and on the boundary between Nelson and Marlborough.

The first section of the index gives the names of the actual places from which each earthquake was reported, together with the number of the locality. Intensities on the Modified Mercalli scale (N.Z. version, 1965) have been assigned at the Observatory. This intensity scale is set out in the N.Z. Journal of Geology and Geophysics, Vol.9, pp.122 - 9, 1966. A ? indicates that no information is available beyond the fact that the shock was felt, or that the description is too imprecise to allow an intensity to be assigned.

In the second section, localities reporting shocks during the year are listed in alphabetical order, followed by the number of the shock in the list of origins and the maximum intensity reported within that locality. By comparing the reports in neighbouring localities, it is possible to form a truer estimate of the incidence of felt earthquakes than would be possible from a simple list of places reporting each shock.

Finally, reported shocks that cannot be confirmed, and reports from places in the south-west Pacific not collected elsewhere are listed.


INDEX TO LOCALITIES
REPORTING FELT
EARTHQUAKES
NOTE: EXCEPT WHERE SOME OBVIOUS TOPOGRAPHIC FEATURE MAKES A DEPARTURE DESIRABLE, BOUNDARIES OF THE LOCALITIES FOLLOW DEGREES OR HALF DEGREES OF LATITUDE AND LONGITUDE
166°
168°
170°
172°
174°
176°
178°
180
178°E
34°
36°
38°
40°
42°
44°
46°

STANDARD REPORTING LOCALITIES

1 Three Kings
2 Te Reinga
3 Ninety Mile Beach
4 Doubtless Bay
5 Kaitaia
6 Kaikohe
7 Bay of Islands
8 Dargaville
9 Whangarei
10 Bream Head
11 Moko hinau
12 Kaipara
13 Warkworth
14 Barrier Islands
15 Helensville
16 Auckland
17 Waiheke
18 Coromandel
19 Pukekohe
20 Mercer
21 Thames
22 Mayor Is.
23 Raglan
24 Hamilton
25 Matamata
26 Tauranga
27 Whakatane
28 Te Kaha
29 East Cape
30 Kawhia
31 Te Kuiti
32 Tokoroa
33 Rotorua
34 Murapara
35 Opotiki
36 Motu
37 Tolaga Bay
38 Mokau
39 Taumarunui
40 Tokaanu
41 Taupo
42 Te Whaiti
43 Tuai
44 Whakapunaki
45 Gisborne
46 Cape Egmont
47 New Plymouth
48 Whangamomona
49 Chakune
50 Chateau
51 Kaweka
52 Napier
53 Wairoa
54 Mahia
55 Hawera
56 Waverley
57 Wanganui
58 Taihape
59 Ruahine
60 Hastings
61 Bulls
62 Palmerston North
63 Dannevirke
64 Porangahau
65 Otaki
66 Masterton
67 Castlepoint
68 Wellington
69 Featherston
70 Martinborough
71 Mt. Stevens
72 Takaka
73 D'Urville Is.
74 Karamea
75 Motueka
76 Nelson
77 Blenheim
78 Picton
79 Westport
80 Murchison
81 Glenhope
82 Wairau
83 Awatere
84 Cape Campbell
85 Greymouth
86 Reefton
87 Maruia
88 Hanmer
89 Clarence
90 Kaikoura
91 Hokitika
92 Kumara
93 Arthur's Pass
94 Lake Sumner
95 Culverden
96 Cheviot
97 Franz Josef
98 Hari Hari
99 Whitcombe Pass
100 Lake Coleridge
101 Oxford
102 Rangiora
103 Haast
104 Bruce Bay
105 Mt. Cook
106 Tekapo
107 Mt. Somers
108 Ashburton
109 Rakaia
110 Christchurch
111 Akaroa
112 Big Bay
113 Jacksons Bay
114 Makarora
115 Lake Ohau
116 Pukaki
117 Fairlie
118 Timaru
119 George Sound
120 Milford
121 Glenorchy
122 Arrowtown
123 Wanaka
124 St. Bathans
125 Kurow
126 Duntroon
127 Waimate
128 Secretary Is.
129 Doubtful Sound
130 Te Anau
131 Livingstone Mts.
132 Kingston
133 Alexandra
134 Poolburn
135 Ranfurly
136 Oamaru
137 Resolution Is.
138 Pillans Pass
139 Monowai
140 Mossburn
141 Waikaia
142 Roxburgh
143 Lawrence
144 Outram
145 Dunedin
146 Puysegur Pt.
147 Poteretere
148 Tuatapere
149 Invercargill
150 Gore
151 Clinton
152 Balclutha
153 Waihola
154 Bluff
155 Ruapuke
156 Tahakopa
157 Owaka
158 Stewart Is.

PLACES REPORTING FELT EARTHQUAKES

72/002 Jan 3d 11h 18m
MM4 Raumati South (65).

72/006 Jan 8d 11h 39m
MM4 Patoka (52); Wellington (68).

72/007 Jan 8d 21h 33m
(An isoseismal map has been published by Adams et al.; Bull. N.Z. Soc. Eq. Engng. 5(2): 55. 1972, June.)
MM8 Waihou (25);
MM7 Elstow, Te Aroha, Waihou (25); Waihi (21);
MM6 Coromandel (18); Waihi, Waikino (21); Karapiro, Kereone, Tatuanui, Te Aroha, Waitoa (25);
MM5 Coromandel, Whitianga (18); Onewhero (19); Te Kauwhata (20); Bowentown, Kerepehi, Thames (21); Cambridge, Hamilton, Hautapu, Huntly, Ngaruawahia, Tauwhare (24); Hoe-o-Tainui, Karapiro, Katikati, Kereone, Morrinsville, Scotsman Valley, Shaftesbury, Waitoa, Whitehall (25); Mahetu, Tauranga, Te Puke (26); Otorohanga (31); Putaruru (32); Rotorua (33);
MM4 Howick (16); Waiheke I. (17); Cuvier I., Port Charles, Te Mata (18); Auckland, Onewhero, Tuakau (19); Tairua (21); Waimai Valley (23); Hamilton, Huntly (24); Katikati, Matamata, Whitehall (25); Tauranga (26); Edgecumbe (27); Ngutuni, Otorohunga, Te Awamutu, Te Kuiti (31); Kaureranga Forest, Waipapa, Whakamaru (32);
MM3 Auckland (16); Hamilton (24); Whakatane (27);
MM2 Kawhia (30);
? Whatawhata (24); Springdale (25).
This shock was not felt to the north of locality 16 (Auckland) or at places south and east of locality 35 (Opotiki). Some observers in localities 16, 17, 19, 24, 26, 27, 29, 30, 31 and 32 indicated that they did not feel the shock.

72/009 Jan 8d 21h 58m
MM4 Scotsman Valley (25).

72/013 Jan 10d 13h 15m
MM5 Walton (25);
MM4 Manurewa (19).

72/016 Jan 12d 04h 44m
MM4 Te Aroha (25).

72/018 Jan 12d 15h 07m
MM4 Tauranga (26).

72/019 Jan 12d 16h 00m
MM4 Waihi Beach (21); Tauranga (26).

72/020 Jan 12 17h 12m
MM4 Cambridge (24).

72/028 Jan 17d 15h 27m
MM3 Nelson (76).

72/032 Jan 17d 19h 25m
MM5 Waihi Beach (21);
MM4 Onewhero (19).

72/033 Jan 19d 01h 20m
MM4 Lower Hutt (68).

72/046 Jan 25d 00h 04m
MM5 Taupo (41) (two reports);
MM3 Taupo (41) (two reports).

72/058 Feb 1d 06h 07m
MM4 Murchison (80).

72/059 Feb 1d 09h 54m
MM5 Burke's Pass (117).

72/067 Feb 14d 21h 54m
MM4 Kohurau (51).

72/068 Feb 15d 15h 12m
MM4 Ohakune (49);
? Waiouru (50).

72/078 Feb 21d 12h 56m
MM4 Edgecumbe (27);
? Whakatane (27).

72/090 Feb 29d 10h 25m
MM5 Lake Coleridge (100);
MM3 Lyttelton (110);
? Mt. Pleasant (110).

72/094 Mar 3d 06h 38m
MM4 Ohakune (49).

72/102 Mar 4d 23h 45m
MM4 Ohakune (49).

72/105 Mar 5d 23h 30m
MM5 Kapiti I. (65);
MM4 Ohakune (49); Wellington (68); Pelorus Sound (77);
? Karori (68);
"sharp" Pokokini (77);
"violent and prolonged" Fighting Bay (78).

72/106 Mar 6d 09h 13m
MM4 Patoha (52); Tikokino (59).

72/107 Mar 6d 10h 36m
MM2 Waiouru (50);
? Springdale (25); Ohakune (49); Waiouru (50).

72/108 Mar 12d 01h 37m
MM4 Edgecumbe (27).

72/120 Mar 12d 21h 17m
"mild" Fighting Bay (78).

72/122 Mar 14d 07h 26m
MM6 Collingwood (72);
MM5 Ohakune (49); Wanganui (57); Wellington (68); Waiorongomai (69); Collingwood (72); Havelock (77); Brothers (78);
MM4 Kotare (38); Warea (46); Dawson's Falls, Stratford, Tarata (47); Purangi (48); Ohakuni (49); Hawera (55); Ngamatapouri, Waitahinga (56); Table Flat (58); Tataramoa (63); Kapiti I. (65); Wellington (68); Te Kopi (70); Cobb, Tadmor (75); Harakeke, Maitai Valley, Nelson (76); Manaroa, Waitaria Bay (78); Mangles Valley, Murchison (80); Fabian's Valley (83).
"strong" Pokokini (77);
"mild" Fighting Bay (78);

	?	Kaweka (51); Inaha (55); Hokio Beach (65); Waiorongomai (69); Cobb (75); Appleby (76); Rai Valley (77); Picton (78).
72/124	Mar	14d 18h 49m
	MM5	Patoka, Tutira (52); Waipukurau (60);
	MM4	Kohurau (51); Taradale, Waipawa (60).
72/125	Mar	14d 20h 07m
	MM5	Cambridge (24);
	?	Morrinsville (25).
72/130	Mar	17d 10h 33m
	MM5	Patoka (52);
	MM4	Kohurau (51); Taradale (60).
72/133	Mar	18d 19h 38m
	MM4	Mahitahi (104).
72/134	Mar	20d 07h 52m
	?	Waitara (47).
72/135	Mar	20d 15h 32m
	MM4	Arthur's Pass (93).
72/136	Mar	20d 17h 50m
	MM5	Ohakune (49).
72/140	Mar	22d 05h 32m
	MM4	Wellington (68).
72/144	Mar	23d 23h 09m
	MM5	Monowai (139); Puysegur Point (146);
	MM4	Milford Sound (120); Earnslaw Station, Glenorchy (121); Wanaka (123); Te Anau Downs (130); Manapouri (139); Nightcaps (140);
	?	Te Anau (130).
72/146	Mar	24d 06h 10m
	MM4	Tokaanu (40).
72/149	Mar	24d 08h 56m
	MM4	Puysegur Point (146).
72/151	Mar	24d 11h 31m
	MM5	Nelson (76).
72/155	Mar	28d 14h 02m
	MM4	Dannevirke (63).
72/157	Mar	31d 01h 24m
	MM4	Mt. Aspiring Homestead (113).
72/163	Apr	3d 17h 15m
	MM5	Murchison (80).
72/164	Apr	4d 10h 41m
	MM5	Rotorua (33);
	MM4	Rotorua (33);
	MM3	Galatea (34).
72/165	Apr	4d 11h 07m
	MM5	Rotorua (33).
72/167 168	Apr	4d 12h 02m
	MM5	Rotorua (33) ("double shock".)

72/169 Apr 4d 12h 36m
MM5 Rotorua (33).

72/184 Apr 11d 14h 48m
MM4 Masterton (66).

72/187 Apr 12d 06h 47m
? Wairakei (41).

72/189 Apr 12d 14h 34m
? Pikowai (27).

72/196 Apr 15d 09h 03m
MM4 Maketu (26).

72/197 Apr 16d 02h 52m
MM4 Patoka (52).

72/198 Apr 16d 05h 10m
MM4-5 Wanganui (57);
MM4 Waitarere Beach (65);
? Wanganui Airport (57).

72/202 Apr 16d 21h 57m
MM4 Murchison (80).

72/203 Apr 18d 02h 03m
MM4 Maketu (26).

72/209 Apr 20d 19h 07m
? Westport (79).

72/214 Apr 23d 20h 10m
MM4 Mahitahi (104).

72/218 Apr 24d 20h 35m
MM4 Tawa (68).

72/220 Apr 25d 07h 12m
MM4 Cobb (75).

72/225 May 1d 00h 54m
MM6 Muhunoa East (65);
MM5 Uruti (38); Stratford (47); Purangi (48); Ohakune (49); Moawhango (58);
MM4 Hawera (55); Okoia (57); Taihape (58); Dannevirke, Tataramoa (63); Kapiti I. (65); Eketahuna, Masterton (66);
MM3 Apiti (58); Manaroa (78);
? Stratford (47); Mangamutu (62); Waitahura (63); Hokio Beach, Kapiti I., Levin (65); Hillwood (66).

72/228 May 3d 08h 42m
MM4 Lake Coleridge (100).

72/230 May 5d 07h 44m
MM4 Lower Hutt, Upper Hutt, Wellington (68);
? Karori (68).

72/240 May 9d 15h 14m
MM5 Masterton (66).

72/249 May 14d 11h 01m
? Bainham (72).

72/261 May 20d 04h 59m
MM4 Napier, Patoka (52).

72/265 May 20d 19h 56m
MM4 Patoka (52);
MM3 Hastings (60).

72/270 May 21d 15h 45m
MM4 Mt. Aspiring Station (113).

72/282 May 29d 02h 47m
MM5 Murchison (80);
MM4 Mangles Valley (80).

72/305 Jun 19d 01h 01m
MM4 Okoia (57).

72/307 Jun 20d 10h 31m
MM5 Mt. Manganui (26);
MM4 Walton (25);
MM3-4 Waihi Beach (21);
? Morrinsville, Te Aroha (25).

72/308 Jun 20d 11h 11m
MM4 Tuakau (19); Cambridge (24);
MM3 Waihi (21);
? Te Aroha (25).

72/309 Jun 20d 16h 09m
MM6 Tauranga (26) (2 reports);
MM4 Coromandel (18); Tuakau (19); Te Kauwhata (20);
Tairua, Waihi, Waihi Beach (21); Cambridge (24);
Morrinsville, Walton (25);
? Elstow (25).

72/312 Jun 21d 11h 05m
MM4 Wellington (68);
MM3 Wellington (68);
? Karori (68).

72/320 Jun 23d 08h 40m
MM4 Waihi Beach (21); Cambridge (24); Walton (25);
? Hoe-o-Tainui (24).

72/324 Jun 25d 06h 28m
MM4 Rotorua (33).

72/328 Jul 1d 07h 40m
MM4 Coromandel (18); Tairua, Waihi Beach (21);
? Tairua (21); Belle Vue (25).

72/329 Jul 1d 08h 11m
MM4 Waihi Beach (21);
MM3 Tauranga (26).

72/330 Jul 1d 08h 22m
MM4 Waipawa (60).

72/334 Jul 2d 20h 13m
MM5 Te Anau Downs (130); Manapouri (138);
MM4 West Arm (138); Riverton (149);
? Whitestone (139); Murray Creek (140).

72/337 Jul 14d 06h 02m
MM3-4 Newtown (68).

72/348 Jul 10d 09h 52m
MM4 Murchison (80);
MM3-4 Harakeke (76).

72/349 Jul 10d 09h 53m
MM4 Karamea (74); Tadmor (75).

72/351 Jul 11d 01h 39m
MM4 York Bay (68).

72/361 Jul 15d 15h 14m
? Kawerau (34).

72/368 Jul 25d 03h 26m
MM4 Wairakei (41);
"strong" Wairakei (41).

72/377 Jul 30d 23h 39m
MM5 Okoia (57); Feilding (62); Porangahau (64); Muhunoa East (65); Eketahuna, Masterton (66);
MM4 Ngamatapouri (56); Table Flat, Taihape (58); Waipawa (60); Te Rehunga (63); Eastbourne, Kelburn (68);
MM3 Rotorua (33);
? Taumarunui (39); Palmerston North (54); Wanganui (57); Ohakea (61); Pahiatua, Wharite (62); Purunui (66); Kelburn, Taita (68); Waiorongomai (69).

72/379 Aug 1d 13h 43m
MM4 Lake Okataina (33).

72/383 Aug 6d 18h 23m
MM5 Mangles Valley (80);
MM4 Murchison (80);
? Westport (79).

72/388 Aug 10d 21h 15m
? Palmerston North (62).

72/398 Aug 15d 11h 52m
MM4 Ormond (44); Gisborne (45);
MM3 Wairoa (53);
? Gisborne (45).

72/411 Aug 27d 00h 50m
MM4 Eastbourne, Ohiro Bay, York Bay (68);
MM3 Khandallah, Lower Hutt (68);
"moderate" Fighting Bay (78);
"slight" Kelburn (68).

72/416 Aug 28d 06h 39m
MM4 Waipawa (60); Dannevirke (63).

72/419 Aug 30d 02h 07m
"mild and short" Fighting Bay (78).

72/420 Aug 30d 08h 06m
MM3-4 Highbury (68).

72/423 Aug 31d 16h 48m
? Cobb River (75).

72/425 Sep 1d 09h 04m
MM4 Murchison (80).

72/426 Sep 3d 00h 06m
? Springdale (25).

72/431 Sep 5d 04h 46m
MM5 Moawhango (58).

72/438 Sep 9d 19h 37m
MM5 Okoia (57).

72/442 Sep 13d 17h 09m
MM4 Glenorchy, Paradise (121);
? Glenorchy (121).

72/445 Sep 16d 15h 10m
MM4 Farewell Spit (72).

72/451 Sep 22d 23h 15m
? Oratonui (37).

72/471 Oct 1d 04h 45m
MM4 Lower Hutt (68);
MM3 Naenae (68).

72/478 Oct 4d 08h 59m
MM4 Dannevirke, Tataramoa (63);
? Springdale (25); Palmerston North (62).

72/480 Oct 5d 12h 21m
MM3 Blenheim (77).

72/484 Oct 9d 02h 45m
MM5 Paraparaumu Beach (65);
MM4 Wanganui (57);
MM3 Ngamatapouri, Waitotara (56);
? Stratford (47); Kapiti I., Motua (65); Karori (68).

72/485 Oct 9d 21h 29m
MM4 Kotemaori (53).

72/486 Oct 10d 12h 11m
MM4 Lake Coleridge (100).

72/491 Oct 12d 11h 19m
MM4 Masterton (66); Khandallah, Lower Hutt, York Bay (68);
MM3 Lower Hutt (68).

72/519 Oct 20d 03h 33m
MM3 Paraparaumu Beach (65).

72/526 Oct 26d 18h 22m
MM4 Whakatane (27).

72/529 Oct 29 08h 19m
MM3 Eastbourne, Karori, Strathmore, Vogeltown (68);
? Island Bay (68).

72/530 Oct 29d 18h 11m
MM3 York Bay (68); Marshlands (77).

72/548 Nov 7d 00h 47m
MM5 Ross (91).

72/552 Nov 8d 16h 26m
MM5 Patoka (52);
MM4 Kohurau, Ongaonga, Waipawa (60);
MM3 Tataramoa (63).

72/558 Nov 11d 21h 49m
MM4 Waipawa (60).

72/562 Nov 13d 14h 15m
MM4 Porirua (68);
? Napier (52); "in Wairarapa" (66?).

72/563 Nov 13d 15h 11m
MM3 Porirua (68).

72/564 Nov 14d 08h 26m
MM3 Farewell Spit (72).

72/565 Nov 14d 17h 14m
? Whakatane (27).

72/566 Nov 14d 17h 26m
? Whakatane (27).

72/567 Nov 14d 17h 51m
? Whakatane (27).

72/575 Nov 24d 06h 17m
MM4 Wanganui (57);
? Wanganui (57).

72/607 Dec 7d 16h 12m
MM4 Moawhango, Taihape (58).

72/613 Dec 10d 00h 37m
MM4 Wanganui (57); Waipawa (60); Dannevirke (63);
MM3 Lower Hutt (68);
? Wellington (68).

72/616 Dec 12d 19h 33m
MM5 Ross (91).

72/621 Dec 13d 14h 40m
MM3 Marshlands (77).

72/645 Dec 20d 09h 55m
MM4 Taraponui (52); Kotemaori, Wairoa (53).

72/651 Dec 21d 03h 41m
MM6 Porangahau (64);
MM5 Waipawa, Waipukurau (60); Dannevirke (63);
MM4 Seatoun (68);
MM3 Palmerston North (62);
? Palmerston North (62).

72/653 Dec 21d 04h 23m
MM5 Dannevirke (63);
MM4 Tataramoa (63); Porangahau (64).

72/655 Dec 21d 13h 55m
MM4 Dannevirke (63).

72/656 Dec 21d 17h 32m
MM4 Dannevirke (63).

72/657 Dec 21d 18h 47m
MM5 Porangahau (64).

72/661 Dec 23d 08h 09m
MM4 Edgecumbe (27).

72/665 Dec 26 09h 26m
MM4 Edgecumbe (27).

72/666 Dec 26d 22h 45m
MM5 Murchison (80).

72/672 Dec 29d 08h 45m
MM5 Eastbourne, Karori (68);

MM4 Kelburn, Lower Hutt, Taita, Tawa, Wellington, York Bay (68);
? Kelburn, Titahi Bay (68).

EARTHQUAKES FELT IN STANDARD LOCALITIES

Localities within which earthquakes have been felt during 1972 are listed in alphabetical order, preceded by their number on the reference map. The figure following the name of the locality is the reference number of the earthquake, given in the list of origins, followed by the maximum intensity (in brackets) reported within the district covered by the locality name. The instrumental magnitude may be found from the List of Origins, and the places actually reporting the shock from the table of Places Reporting Felt Earthquakes.

93	Arthur's Pass	135 (4)			
16	Auckland	8 (4)			
83	Awatere	122 (4)			
77	Blenheim	105 (4), 621 (3)	122 (5),	480 (3),	530 (3),
104	Bruce Bay	133 (4),	214 (4)		
61	Bulls	377 (?)			
46	Cape Egmont	122 (4)			
50	Chateau	68 (?),	107 (2)		
110	Christchurch	90 (3)			
18	Coromandel	8 (6),	309 (4),	328 (4)	
63	Dannevirke	122 (4), 416 (4), 651 (5),	155 (4), 478 (4), 653 (5),	225 (4), 552 (3), 655 (4),	377 (4), 613 (4), 656 (4)
117	Fairlie	59 (5)			
69	Featherston	122 (5),	377 (?)		
45	Gisborne	398 (4)			
121	Glenorchy	144 (4),	442 (4)		
24	Hamilton	8 (5), 309 (4),	20 (4), 320 (4)	125 (5),	308 (4),
60	Hastings	124 (5), 377 (4), 613 (4),	130 (4), 416 (4), 651 (5)	265 (3), 552 (4),	330 (4), 558 (4),
55	Hawera	122 (4),	225 (4)		
91	Hokitika	548 (5),	616 (5)		
113	Jackson's Bay	157 (4),	270 (4)		
74	Karamea	349 (4)			

51	Kaweka	67 (4),	122 (?),	124 (4),	130 (4)
30	Kawhia	8 (2)			
100	Lake Coleridge	90 (5),	100 (4),	486 (4)	
70	Martinborough	122 (4)			
66	Masterton	184 (4), 491 (4)	225 (4),	240 (5),	377 (5),
25	Matamata	8 (8), 107 (?), 309 (4), 478 (?)	9 (4), 125 (?), 320 (4),	13 (5), 307 (4), 328 (?),	16 (4), 308 (?), 426 (?),
20	Mercer	8 (5),	309 (4)		
120	Milford	144 (4)			
38	Mokau	122 (4),	225 (5)		
139	Monowai	144 (5)			
140	Mossburn	144 (4)			
75	Motueka	122 (4),	220 (4),	349 (4),	423 (?)
80	Murchison	58 (4), 282 (5), 666 (5)	122 (4), 348 (4),	163 (5), 383 (5),	202 (4), 425 (4),
34	Murupara	164 (3),	361 (?)		
52	Napier	6 (4), 197 (4), 562 (?),	106 (4), 261 (4), 645 (4)	124 (5), 265 (4),	130 (5), 552 (4),
76	Nelson	28 (3),	122 (4),	151 (5),	348 (3-4)
47	New Plymouth	122 (4),	134 (?),	225 (5),	484 (?)
49	Ohakune	68 (4), 107 (?),	94 (4), 122 (5),	102 (4), 136 (5),	105 (4), 225 (5)
65	Otaki	2 (4), 225 (6),	105 (5), 377 (5),	122 (4), 484 (5),	198 (4), 519 (3)
62	Palmerston North	225 (?), 651 (3)	377 (5),	388 (?),	478 (?),
78	Picton	105 (?), 411 (?),	120 (?), 419 (?)	122 (5),	225 (3),
64	Porangahau	377 (5),	651 (6),	653 (4),	657 (5)
19	Pukekohe	8 (5), 309 (4)	13 (4),	32 (4),	308 (4),
146	Puysegur Point	144 (5),	149 (4)		
23	Raglan	8 (4)			
33	Rotorua	8 (5), 169 (5),	164 (5), 324 (4),	165 (4), 377 (3),	167/8 (5), 379 (4)
59	Ruahine	106 (4)			

58	Taihape	122 (4), 607 (4)	225 (5),	377 (4),	431 (5),
72	Takaka	122 (6),	249 (?),	445 (4),	564 (3)
39	Taumarunui	377 (?)			
41	Taupo	46 (5),	187 (?),	368 (4)	
26	Tauranga	8 (5), 203 (4),	18 (4), 307 (5),	19 (4), 309 (6),	196 (4), 329 (3)
130	Te Anau	144 (4)			
31	Te Kuiti	8 (5)			
21	Thames	8 (7), 308 (3), 329 (4)	19 (4), 309 (4),	32 (5), 320 (4),	307 (3-4), 328 (4),
40	Tokaanu	146 (4)			
32	Tokoroa	8 (5)			
37	Tolaga Bay	451 (?)			
17	Waiheke	8 (4)			
53	Wairoa	398 (3),	485 (4),	645 (4)	
123	Wanaka	144 (4)			
57	Wanganui	122 (5), 438 (5),	198 (4-5), 484 (4),	305 (4), 575 (4),	377 (5), 613 (4)
56	Waverley	122 (4),	377 (4),	484 (3)	
68	Wellington	6 (4), 140 (4), 337 (3-4), 420 (3-4), 529 (3), 613 (3),	33 (4), 218 (4), 351 (4), 471 (4), 530 (3), 651 (4),	105 (4), 230 (4), 377 (4), 484 (?), 562 (4), 672 (5)	122 (5), 312 (4), 411 (4), 491 (4), 563 (3),
79	Westport	209 (?),	383 (?)		
44	Whakapunaki	398 (4)			
27	Whakatane	8 (4), 526 (4), 661 (4),	78 (4), 565 (?), 665 (4)	108 (4), 566 (?),	189 (?), 567 (?),
48	Whangamomona	122 (4),	225 (5)		

UNCONFIRMED REPORTS

The following shocks reported to the Observatory as having been felt can not be confirmed either by an instrumental record or by an independent report.

Jan	9d	12h-15h	Motuoapa (40)	MM 4
	12d	13h 00m	Walton (25)	MM 5
Feb	3d	13h 23m	Lower Hutt (68)	MM 4

Feb	3d	17h 31m	Rotorua (33)	MM 5
	13d	00h 15m	Maketu (26)	MM 4
Mar	3d or			
	4d	06h 26m	Wellington (68)	MM 4
	5d	23h 22m	Karori (68)	MM 3
Apr	1d	14h±	Orautoha (49)	?
	3d	22h 53m	Rotorua (33)	MM 3
	4d	11h±	Rotorua (33)	MM 4
	4d	12h 10m	Rotorua (33)	?
	4d	12h 40m	Rotorua (33)	?
	5d	10h 30m	Rotorua (33)	MM 5
May	17d	10h 30m	Rotorua (33)	MM 4
Jun	20d	Seven shocks reported from Te Aroha (25), without precise times or intensity information.		
	20d	08h 40m	Hoe-o-Tainui (24)	?
	21d	13h 00m	Hoe-o-Tainui (24)	?
	26d	13h 15m	Hoe-o-Tainui (24)	?
Jul	11d	18h 28m	Rotorua (33)	MM 4
	15d	03h 03m	Kawerau (34)	?
Aug	3d	08h 07m	Karori (68)	?
Sep	13d	13h 09m	Earnslaw Station (121) (Possibly refers to 72/442.)	MM 4
Nov	8d	17h 45m	Taihape (58)	MM 4

REPORTS FROM OUTSIDE NEW ZEALAND

The Observatory sometimes receives reports of earthquakes felt on islands of the south-west Pacific and at other places beyond the limits of its systematic reporting network. The following reports were received during 1972.

Jan	2d	18h 37m	Raoul I.	MM 3
	20d	06h 39m	Raoul I.	?
Feb	22d	13h 46m	Raoul I.	?
Mar	7d	07h 45m	Raoul I.	MM 5
	19d	06h 31m	Raoul I.	MM 3
	19d	06h 33m	Raoul I.	MM 3
	21d	01h 03m	Raoul I.	MM 3
	26d	01h 03m	Raoul I.	MM 2
	28d	13h 59m	Raoul I.	MM 4
	30d	05h 36m	Raoul I.	?
	30d	19h 50m	Raoul I.	?
Apr	24d	06h 00m	Raoul I.	MM 2
May	4d	19h 36m	Raoul I.	MM 4
	11d	21h 19m	Raoul I.	MM 3
	28d	19h 36m	Raoul I.	MM 4
Jun	11d	13h 32m	Niue	MM 4
	13d	17h 01m	Raoul I.	MM 3
	14d	13h 23m	Raoul I.	MM 2
	15d	03h 50m	Raoul I.	MM 2
	20d	11h 38m	Raoul I.	MM 2
	22d	10h 44m	Raoul I.	?
Aug	3d	17h 56m	Raoul I.	MM 3
	5d	13h 50m	Raoul I.	?
	7d	09h 26m	Niue	MM 4
	15d	20h 08m	Raoul I.	MM 2
Oct	31d	18h 44m	Raoul I.	MM 3
Dec	4d	16h 21m	Raoul I.	MM 4

STATION READINGS OF
DISTANT EARTHQUAKES

Readings of earthquakes at distances beyond about 10 degrees from Wellington, and readings of New Zealand earthquakes made at stations outside the main Islands of New Zealand, are presented in a unified list, together with origin data obtained from the United States National Earthquake Information Center, and magnitudes computated from New Zealand data.

The list is arranged as follows: for each earthquake, the first line gives the origin time, epicentre, focal depth, and magnitude assigned by NEIC. When no NEIC data are available, this line is omitted. Next the arrival times of individual stations are listed. With these are given directions of first motion, the amplitudes and periods of the associated ground motions, and for the stations

AFI CBZ CNZ COB CRZ GNZ KRP MJZ MNG
MNW MSZ RAO RAR ROX SBA and WEL,

the epicentral distances in degrees and the magnitudes.

Periods are given in seconds, and amplitudes in microns. These are worked out by the computer, using a stored polynomial approximation to the response curve of the seismometer concerned. The magnitudes are the "unified magnitude" $m = \log_{10} A/T + Q$, defined by Gutenberg and Richter (Annali di Geofisica, 9: 1 - 15, 1956). No station correction is applied. Only the vertical-component recordings of P or PP, and the horizontal components of P, PP or S are used. The value printed on the right is the mean of separate determinations for all the components whose amplitude and period data are given on the same line.

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          H  M  S        EPICENTRE    DEPTH  MAG
JAN 01  02 54 11.5    18.2S 167.9E   36KM  4.9  NEW HEBRIDES
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP?      Z   02 56 30       9
              E        Z         34.9
        KRP    P       Z   02 58 54.4     21 +1.05                        5.2
        COB E(P)       Z   02 59 37       23

JAN 01  KRP   EP?      Z   06 48 51

          H  M  S        EPICENTRE    DEPTH  MAG
JAN 01  10 15 48.0     4.6S 155.2E  506KM  5.2  SOLOMON IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P       Z   10 20 41.0     25
        KRP    P       ZNE 10 22 24.3     38
               *PP     Z      24 13
              (*SP)    Z         26.0
              (SCP)    ZNE    27 29.0
        COB    P       Z   10 22 36.7     40 +0.94                        5.6
        GNZ    P       ZNE 10 22 36       40
               S       ZNE    28 02
        MNG    P       Z   10 22 40.4U    40
               SCP     Z      27 35
               S       Z      28 13
        MNW   EP       Z   10 22 58       42
        SBA    IP      ZNE 10 26 30.4D    73 +0.44                        6.2
               S       ZNE    35 24

          H  M  S        EPICENTRE    DEPTH  MAG
JAN 01  14 04 41.3     4.8S 153.4E   52KM        NEW IRELAND
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP       Z   14 12 13       39
        COB   EP       Z   14 12 16       40
        MNG    P       Z   14 12 19.0     41
              E-PP     Z         30

JAN 01  AFI    P       ZNE 17 04 57
               S       ZNE    05 40

          H  M  S        EPICENTRE    DEPTH  MAG
JAN 01  19 33 29.1     4.8S 153.5E   48KM        NEW IRELAND
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP E(P)       Z   19 40 52.5     39
        MNG    P       Z   19 41 18.3     41

          H  M  S        EPICENTRE    DEPTH  MAG
JAN 01  21 23 25.5    25.7S 179.6E  479KM  5.0  S. OF FIJI
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   21 25 25.7      8
              P        Z         26.2
              E        Z         46
        KRP    P       ZE  21 26 13.3     13 +1.02
              ES       E      28 35
        GNZ   EP       ZNE 21 26 15       13
              (S)      ZNE    28 32
              (S)      ZNE    37
        TRZ    S       Z   21 28 59.2     14
        AFI    P       ZNE 21 26 25       14
               S       ZNE    28 50
        MNG    P       Z   21 26 36       15 +1.16                        5.3
               S       Z      29 13
        WEL   EP       Z   21 26 46       16
              ES       Z      29 28.5
        COB    P       Z   21 26 50       16 +0.90                        5.6
              ES       Z      29 41
        SBA   EP       Z   21 31 21       53
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          H  M  S       EPICENTRE    DEPTH  MAG
JAN 01  22 05 59.0    16.7S 174.8E   56KM   5.8  FIJI REGION
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P         Z   22 06 11.4      3
                (S)       Z         19
                E         Z         27
          AFI   P         ZNE 22 09 00        13
                S         ZNE    11 28
          CRZ   EP        ZNE 22 10 02        18   0.14                       6.3
          ONE   EP        E   22 10 11        19
                (S)       E      13 23
                L         E      54
          KRP   EP        ZNE 22 10 38        21  -0.17                       6.1
                *PP       ZNE         49.4
                ES        ZNE    14 44
          GNZ   EP        ZNE 22 10 48        22
          TRZ   P         Z   22 11 00        23
          MNG   EP        Z   22 11 04        24  -0.20                       6.1
          COB   EP        Z   22 11 10.5      24  -0.09                       6.3
          WEL   P         ZNE 22 11 14        25
                S         ZNE    15 28
                L         ZNE    16
          CIZ   EP        Z   22 11 54        28
          SBA   EP        ZNE 22 16 08        61
                S         ZNE    24 28

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 01  22 44 58.9    17.0S 174.2E   36KM   5.2  FIJI REGION
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP        Z   22 45 44        3
          AFI   P         ZNE 22 48 14        14
          CRZ   EP        ZNE 22 49 03        17
          KRP   EP        ZNE 22 49 41        21  -0.65                       5.6
                E         Z      54 27
          MNG   P         Z   22 50 06        24  -0.95                       5.4
          COB   EP        Z   22 50 14        24  -0.69                       5.7
                ES?       Z      54 52
          WEL   P         Z   22 50 16        24
          SBA   EP        ZNE 22 55 10.3      61

JAN 02    NDF   P         Z   00 15 12.7

JAN 02    NDF   EP?       Z   00 35 04
                E         Z      31

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 02  01 42 17.0    17.1V 145.5E  140KM   4.6  MARIANA IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P?        Z   01 52 20.7      62
          COB   EP?       Z   01 52 30        63
          MNG   EP        Z   01 52 33.5      64  -1.35                       5.7

JAN 02    NDF   P         Z   02 34 29.2

JAN 02    KRP   P         Z   03 16 28.3          -1.16
          MNG   P?        Z   03 16 49.0

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 02  04 09 03.8    24.9S 180.0W  497KM   4.5  S. OF FIJI
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P         Z   04 10 37.9      7
          AFI   P         ZNE 04 11 55        13
                S         ZNE    14 13
          KRP   EP        Z   04 11 59        14
          MNG   EP        Z   04 12 21.8      15  -1.11                       5.4
                S         Z      15 06.8
          WEL   P         Z   04 12 32        17
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                S       ZNE     15 23
        COB     P       Z   04  12 35       17 -0.75                        5.8
                ES      Z       15 30

JAN 02  NDF     EP      Z   06  19 39
                EL      Z       21 15

         H  M   S        EPICENTRE    DEPTH  MAG
JAN 02  08 01  49.5    39.5S  71.1W  138KM  4.8  S. ANDES
                                H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA     P       Z   08  11 29.2      58
        MNG     P       Z   08  13 44.4      80 -1.22                        5.6
        KRP     EP?     Z   08  13 53        82

JAN 02  CBZ     P       Z   08  23 14.6
        SBA     P       ZNE 08  24 34.5          0.13
                (S)     E       27 46
                L       ZNE     28
        MNG     P       Z   08  25 52.6          -0.53
        KRP     P       Z   08  26 19

JAN 02  NDF     P       Z   10  35 55.5
                E(PCP)  Z       41 16
                E(SCP)  Z       42 44.5
                E       Z       44 11
                E       Z       45 03
        AFI     EP      Z   10  38 31
                S       ZNE     41 00
        KRP     P       ZE  10  40 05
                E       Z       22.5
        MNG     EP      Z   10  40 36
                E       Z       52
                E       Z       41 14
        COB     P       Z   10  40 37
        SBA     P       Z   10  45 37

JAN 02  NDF     EP?     Z   11  26 22
                E       Z       30
                E       Z       27 11.5
                E       Z       29 36

JAN 02  SBA     P       Z   13  30 38.8

         H  M   S        EPICENTRE    DEPTH  MAG
JAN 02  18 36  55.6    30.1S 177.4W   34KM  4.7  KERMADEC IS
                                H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       Z   18  40 55       17
                S       ZNE     43 41
                T       ZNE     57 48
        SBA     P       Z   18  45 38       48
        FELT RADIUS I, MM III

         H  M   S        EPICENTRE    DEPTH  MAG
JAN 02  22 09  38.4    27.4N 141.3E   54KM  5.3  BONIN IS
                                H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP     P       Z   22  21 02.0      72 -1.22                        5.8
        WEL     P       Z   22  21 24        73
                LQ      ZNE     42
        SBA     SKS     ZE  22  31 08       106
                LR      Z       47 56

JAN 03  NDF     IP      Z   16  02 32.40
                S       Z       58.6
        KRP     EP      Z   16  07 08

JAN 03  NDF     IP      Z   16  30 26.80
        KRP     P       Z   16  34 56          -1.26
        GNZ     EP?     Z   16  35 06.5
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       MNG   EP?      Z   16 35 18
       SBA    P       Z   16 40 24.7

        H  M  S       EPICENTRE    DEPTH  MAG
JAN 03 17 06 22.3    51.1N 178.9E   46KM  5.5  ALEUTIAN IS
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       AFI   ES       ZNE 17 25 48        65
             ESSS     E      33 00
             EL       ZN     35 40
       KRP   EP       Z   17 19 13        89 -0.81                          6.5
              *PP     Z          24.5
       MNG   EP       Z   17 20 00.5      91 -0.99                          6.5
       SBA    SCP     Z   17 28 48       129

        H  M  S       EPICENTRE    DEPTH  MAG
JAN 03 17 31 29.4    51.1N 178.9E   46KM  5.1  ALEUTIAN IS
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       KRP   EP       Z   17 44 19.5      89 -1.04                          6.3

JAN 03 AFI   IP       ZNE 20 50 01.8
             S        ZNE       22

        H  M  S       EPICENTRE    DEPTH  MAG
JAN 04 03 16 54.5    22.6N 122.1E   33KM  6.1  TAIWAN REGION
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       NDF    P       Z   03 27 51.5      67
       AFI   IP       Z   03 28 31.6      74
              S       ZNE    38 00
              SS      ZNE    42 52
              L       ZNE    51
       CRZ    P       Z   03 28 32        74
             (*PP)    ZNE        46
       GBZ   EP       Z   03 28 48        77
           E(*PP)     Z          01.7
       KRP    P       ZNE 03 28 54.6      78 -0.74                          6.4
             (*PP)    ZNE    29 08
             EPP      Z      31 57
       COB   EP       Z   03 28 57        79 -0.63                          6.5
             EPP      Z      31 59
       CNZ    P       Z   03 28 59.0      79 -0.34                          6.8
           E(*PP)     Z      29 12
             (PCP)    Z          17.3
       MNG    P       Z   03 29 02.5      80 -0.49                          6.7
              *PP     Z          08.9
             E        Z          32.0
             E        Z          55
              PP      Z      31 58
       WEL    P       Z   03 29 03        80
           E(*SPKP)    ZNE        19
             E        Z          41
             EPP      Z      32 04.5
             E        Z      33 00
              S       ZNE    39 04
             (*SS)    ZNE        20
              SP      NE     40 01
              PS      NE         26
              SS      NE     44 12
             ESSS     NE     47 25
              LQ      ZNE    50
              LR      ZNE    55
       ROX   E        Z   03 33 20        80
              S       NE     39 02
             ESP      ZE     40 08
             ESS      NE     43 28
             E        N      45 54
             ESSS     N      47 34
              LQ      ZNE    50 28
              LR      Z      54 19
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        TRZ   EP        Z    03 29 07          80
        GNZ    P        ZNE  03 29 03.6       80 -0.03                    7.1
               IPCP     ZNE       09.0
               *PP      ZNE       17.0
               EPP      Z       32 12
                S       ZNE     39 11
        CBZ    P        Z    03 29 38          85
        SBA   EP        Z    03 31 04         104
                PP      Z       35 20.0
                SKS     NE      41 40.0
                S       ZNE     42 44.0
                PS      Z       44 04.0
                LQ      NE      59 22.0

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 04  08 24 49.1      6.4S 154.9E   62KM   4.8  SOLOMON IS
                           H  M  S  DIR DIS LQ.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z    08 31 51.2       37 -1.15                    5.7
        GNZ    P        ZNE  08 32 05        38 -0.52                    6.3
        MNG    P        Z    08 32 08.2       39 -1.23                    5.6

JAN 04  AFI   IP        ZNE  11 22 17.4
                S       ZNE     35

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 04  18 59 46.1      0.0N 124.8E   33KM   5.6  MOLUCCA SEA
                           H  M  S  DIR DIS LQ.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ    P        Z    18 19 49         60 -1.24                    6.0
        KRP   EP        Z    18 19 51         60
        MNG    P        Z    18 19 58.0       61 -1.36                    5.8
        GNZ   EP?       Z    18 20 11         62 -0.66                    6.5
        SBA   EP        Z    18 12 03.4       81
                S       NE      22 12.0

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 04  20 07 35.7      23.8S 180.0E 598KM   4.9  S. OF FIJI
                           H  M  S  DIR DIS LQ.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P        ZNE  20 10 08         13
                S       ZNE     12 15
        KRP   EP?       Z    20 10 37         15 -1.08
        GNZ   EP?       ZNE  20 10 36         15
                ES?     ZNE     13 13
        MNG   EP        Z    20 10 59.0       17 -0.98                    5.5
                S       Z       13 55.7
        WEL    P        ZNE  20 11 09.30      19 -0.57                    5.9
                ES      ZNE     14 11
        COB    P        Z    20 11 12.00      18 -0.72                    5.8
                ES      Z       14 13

JAN 04  GBZ   EP        Z    21 27 09
        ECZ   EP        Z    21 27 14             -0.94
                S       Z       28 37
        CRZ    P        ZNE  21 27 17.0         -0.78
        MNG   EP        Z    21 27 47.5         -0.30
              E(S)      Z       29 42.5
               (S)      Z       47
        AFI   EP        Z    21 29 04
               (S)      ZNE     32 08
        TRZ    S        Z    21 29 23.0
        WEL   ES        Z    21 30 06
        COB   ES        Z    21 30 17.3

JAN 05  NDF   EP?       Z    09 31 20.2
               E        Z       26.0
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		H M S	EPICENTRE	DEPTH	MAG									
JAN 05		12 09 50.0	19.8S 178.1W	462KM	3.8	FIJI REGION								
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	12 11 10.5		5								
		E	Z	29										
	AFI	P	Z	12 11 43		5								
		S	ZNE	13 13										
		H M S	EPICENTRE	DEPTH	MAG									
JAN 05		14 49 44.7	12.2S 166.9E	205KM	4.4	SANTA CRUZ IS								
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	P	Z	14 55 26		29	-1.07							5.5
		H M S	EPICENTRE	DEPTH	MAG									
JAN 06		00 30 17.2	4.6S 131.8E	160KM	5.9	NEW BRITAIN								
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	00 35 58		28								
	CRZ	P	ZNE	00 37 00.5D		35								
	AFI	IP	Z	00 37 13.3D		37								
		PP	ZE	38 40										
		S	ZE	42 44										
		SS	NE	45 40										
		SSS	Z	46 16										
		LR	Z	48										
	GNZ	IP	ZNE	00 37 49.8D		41	0.34							6.9
		SCP	ZNE	43 00										
		PCS	ZNE	21										
		S	ZNE	58										
	MNG	P	Z	00 37 51.7D		42	-0.25							6.3
	WEL	P	Z	00 37 53.2		42								
		(*PP)	Z	38 27										
		(*SP)	Z	53.3										
		PP	Z	39 40										
		(PPP)	Z	40 10										
		S	Z	43 59										
		L	Z	47										
	SBA	P	ZNE	00 41 36.3		74	-0.76							6.1
		*PP	Z	42 13.3										
		S	ZNE	50 56										
		H M S	EPICENTRE	DEPTH	MAG									
JAN 06		12 13 38.9	17.1S 175.9E	33KM	5.1	FIJI REGION								
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	IP	Z	12 14 03.2U		2								
		S	Z	23										
	AFI	IP	ZE	12 16 33.4U		12	-1.18							
		IS	ZNE	18 52										
	CRZ	EP	ZNE	12 17 49		17								
	ECZ	EP	Z	12 18 27.0		21								
	GNZ	P	ZNE	12 18 32		22	-0.45							5.8
	MNG	P	Z	12 18 50.0		23	-0.34							6.0
	COB	P	Z	12 18 57		24	-0.83							5.6
	SBA	IP	Z	12 23 54.5U		61	-0.89							6.3
JAN 06	AFI	P	Z	15 41 12.7U										
		S	ZNE	42 53										
JAN 06	AFI	P	Z	20 48 26										
		(S)	ZNE	50 34										
JAN 07	AFI	IP	Z	03 05 20.1U			-0.98							
		S	NE	06 56										
		H M S	EPICENTRE	DEPTH	MAG									
JAN 07		06 25 48.4	2.1S 139.0E	33KM	5.9	WEST IRIAN								
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB	EP	Z	06 34 37		49								

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        AFI   IP        Z   06 34 43  U     50 =0,52                          6,5
              S         ZNE     42 00
              LQ        NE      47 16
              LR        N       49 24
        WEL E(P)        Z   06 34 08        51
        MNG   EP        Z   06 34 15        51
        ECZ E(P)        Z   06 34 02        51
        GNZ   EP        ZNE 06 34 50        51
        SBA    P        ZNE 06 37 42,7      77
               S        N       47 38

JAN 07  AFI    P        Z   15 25 28
               S        ZNE     26 38

JAN 07  AFI   IP        Z   21 17 28,5U
               S        ZNE     50

JAN 07  AFI    P        Z   23 35 58
               S        NE      37 42

         H  M  S       EPICENTRE    DEPTH  MAG
JAN 08  03 07 56,2   18,8S 173,3W   33KM   5,9  TONGA
                          H  M  S   DIR DIS LQ,A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P        Z   03 09 07          9
               S        ZNE     10 01
               T        ZNE     14 10
        CRZ   EP        ZNE 03 12 22,5      20
        GBZ   EP        Z   03 12 27        20
        GNZ   EP        Z   03 12 41        21
        MNG   EP        Z   03 13 05,0      24
               S        Z       17 31
        WEL   EP        Z   03 13 19        25 =0,71                          5,7
        SBA    P        ZNE 03 18 01,8      60
              PCP       ZNE     27,3
              PPP       ZNE     21 12,0
               PS       ZNE     26 29,5

         H  M  S       EPICENTRE    DEPTH  MAG
JAN 08  04 03 18,0    3,8S 140,0E   37KM   5,0  WEST IRIAN
                          H  M  S   DIR DIS LQ,A/T  AZ TZ  AN TN  AE TE  MAG
        CRZ   EP        Z   04 11 14          43
        MNG    P        Z   04 11 58,9        49

         H  M  S       EPICENTRE    DEPTH  MAG
JAN 08  05 27 52,9   20,9N 120,2E   33KM   6,2  PHILIPPINES
                          H  M  S   DIR DIS LQ,A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP        ZNE 05 39 36  D     75 =0,22                          6,8
              S         ZNE     49 16
              SS        ZE      53 48
              LQ        NE      59 00
              LR        ZNE 06 02 24
        COB   EP        Z   05 39 55        79
              PCP       Z       40 18,5
              PP        Z       43 06,8
        MNG    P        Z   05 40 01,3      80
               E        Z       43 03
              EPP       Z           14
               E        Z           45
        GPZ    P        N   05 40 04        80
        WEL   EP        Z   05 40 13,5      80
        SBA   EP        ZN  05 41 47,0     102
              EPP       Z       46 06,0
               SKS      NE      52 36,0
               PS       NE      55 00
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          H  M  S       EPICENTRE    DEPTH  MAG
JAN 08   08 14 20.0   20.9S 120.3E   33KM  5.3  PHILIPPINES
                          H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
         MNG  EP      Z   08 26 34        50

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 08   11 34 49.2   55.8S  28.7E   60KM  6.2  SOUTH SANDWICH IS
                          H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
         SBA   P       ZNE 11 43 13.0D     44
               PP      Z      45 03.9
               PPP     Z         23.8
               S       ZNE    49 09.0
         COB  EP       Z   11 47 08         79
         MNG   P       Z   11 47 19.4       80
              EPP      Z      50 29

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 09   06 58 52.3   22.5S 171.3E   59KM  4.6  LOYALTY IS
                          H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
         AFI  EP       Z   07 03 06        18

JAN 09   AFI   P       Z   08 12 42
               S       ZNE    13 32
               T       ZNE    17 30

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 09   09 52 18.5   18.0S 178.5W  605KM  4.4  FIJI REGION
                          H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
         AFI   P       Z   09 54 12         5
               S       ZNE    55 41

JAN 09   AFI  IP       ZNE 11 23 34  U
               S       ZNE        54

JAN 10   RAO   P       Z   08 39 01.5

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 10   09 57 38.3   17.9N 145.3E  350KM  5.0  MARIANA IS
                          H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
         COB  EP?      Z   10 07 40         64
         MNG  EP?      Z   10 07 40         65

JAN 10   SBA  (P)      Z   11 10 44.4

JAN 10   RAO   P       Z   19 21 06
              ES       Z      22 42

JAN 10   RAO   P       Z   19 25 17
               S       Z         51

JAN 10   RAO   P       Z   21 02 38.6
               S       Z      03 15

JAN 11   AFI  IP       Z   02 31 48.8D
               S       ZNE    33 21

JAN 11   AFI  IP       Z   06 55 07.6D
               S       ZNE    56 45

JAN 12   AFI  IP       ZNE 06 25 48.8U
               S       ZNE    26 09

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 12   08 15 46.1   27.5N  33.7E   54KM  5.1  EGYPT
                          H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
         COB  EPKP     Z   08 35 16        144
         MNG  EPKP     Z   08 35 20.4      146
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        KRP  EPKP      Z   08 35 22.5     146

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 12  09 59 10.3      6.9S  71.8E  580KM  5.9  WESTERN BRAZIL
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP?       ZNE 10 11 09.2      84
             PP        Z      13 11.5
             SCS       ZNE    21 13.0
             SS        ZNE    22 32
        COB  PKKP      Z   10 28 21        94
        WEL  PP        Z   10 14 12        95
             SKS       NE     21 53
             SKKS      NE     22 36
             SP        Z      24 44
             ESS       NE     30 18
             LR        NE     47
        KRP  P         Z   10 12 15        97
             PKKP      Z      28 02.8
             PKKP      Z      25
        AFI  E+PPCP    Z   10 13 52       114
             PP        Z      15 40
             PPP       Z      18 36
             SKS       ZNE    21 32
             SP        Z      23 56

JAN 12  AFI  E         Z   10 27 42
             +SSS      Z      32 44

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 12  13 09 56.4      7.9S 130.4E    4KM  5.3  BANDA SEA
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB  EP        Z   14 08 57        50
        KRP  P         Z   14 09 00        50
        MNG  P         Z   14 09 05.0      52

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 13  04 09 19.9      32.3S  70.9W   80KM  5.5  ANDES
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP        Z   04 21 42        87
             E(+PP)    Z      14

JAN 13  AFI  IP        Z   06 04 44.5D
             S         ZNE    05 03

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 13  08 10 04.1      12.9S 166.7E  112KM  4.6  SANTA CRUZ IS
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP        Z   08 16 00        26

JAN 13  AFI  (P)       Z   08 29 42

JAN 13  AFI  IP        ZNE 17 17 07.5U
             S         ZNE    28

JAN 13  RAO  P         Z   17 49 13.7U
             S         Z      36

JAN 14  KRP  P         Z   03 09 55.8

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 14  04 05 21.2      3.8N 122.7E  573KM  5.2  SULAWESI
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P         Z   04 14 55.0      63
        KRP  P         Z   04 15 03        64 -1.2I                        5.3
        WTZ  P         Z   04 15 09.6      65
        MNG  P         Z   04 15 08.5      65
        GNZ  EP        Z   04 15 14        66
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JAN 14  AFI    P       ZNE 04 27 35
               (S)     ZNE    29 50

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 15  03 39 17.0    18.3S 174.6W 130KM  5.6  TONGA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P       ZNE 03 40 26          5
               S       ZNE    41 16
        NDF    EP      Z   03 41 12          8
        RAO    P       Z   03 41 51         11
               S       Z      44 39
        CRZ    EP      ZNE 03 43 39         20 -0.43                            5.8
        GBZ    P       Z   03 43 41.9       20
               ES      Z      47 27
        ECZ    P       Z   03 43 48         20
        GNZ    EP      ZNE 03 43 56         21  0.57                            6.9
        KRP    P       ZNE 03 43 57.0       21
               ES      NE     47 49
        TUA    P       Z   03 43 59.5       22
        TRZ    P       Z   03 44 08.0       22
               E       Z      22.3
               S       Z      48 08
        TNZ    EP      Z   03 44 12.5       23
        MNG    P       Z   03 44 18.4       24 -0.46                            6.0
               S       Z      48 29.8
        WEL    P       ZNE 03 44 27         25
               S       NE     48 50
        COB    P       Z   03 44 30.6       25 -0.50                            6.0
               ES      Z      48 56.8
        CIZ    EP      Z   03 44 39         26
        MSZ    P       Z   03 45 16.2       30 -0.84                            5.9
        MNW    P       Z   03 45 24         31 -0.74                            6.0

JAN 15  AFI    P       ZNE 04 21 24
               S       ZNE    22 16

JAN 15  AFI    IP      Z   06 54 45  D
               S       ZNE    55 04

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 15  20 46 41.6    26.2S 176.2W 245KM  4.4  FIJI REGION
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P       ZNE 20 48 22         13
               S       ZNE    49 38
        WTZ    P       Z   20 50 39.0       13
        KRP    P       ZNE 20 50 44.8       14 -0.62
        COB    EP      Z   20 51 21.0       17
               E       Z      23.5

JAN 16  AFI    IP      ZNE 05 20 58  D
               (S)     ZNE    21 17

JAN 16  AFI    IP      Z   15 31 45.2J
               S       ZNE    32 55

JAN 16  AFI    IP      ZNE 22 25 09.4J
               S       ZNE       40

JAN 16  KRP    P       Z   22 29 33.7
        MNG    EP      Z   22 29 55
        COB    P       Z   22 30 10.0
        MSZ    EP?     Z   22 30 52

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 16  23 58 17.4    21.2S 173.5W  33KM  5.2  TONGA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P       Z   23 59 58          7
```

		S	ZNE	24	01	13									
		T	ZNE		07	00									
	RAO	P	Z	24	00	22		9							
	KRP	P	Z	24	02	41.2		19							
	MNG	P	Z	24	03	04.8		22							
	COB	P	Z	24	03	26.1		23							
	MSZ	P	Z	24	04	13		28							
JAN 17	AFI	E	Z	06	23	36									
		(S)	ZNE		25	16									
	KRP	(P)	Z	06	26	40			-1.05						
JAN 17	AFI	P	ZNE	16	14	57									
		S	ZNE		15	16									

	H	M	S	EPICENTRE		DEPTH	MAG								
JAN 18	12	43	27.8	54.7N	161.4E	33KM	5.6	KAMCHATKA							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	Z	13	04	08		72							
		ELQ	NE		14	08									
		ELR	ZN		16										
JAN 18	MSZ	P	Z	13	53	26.0			-0.93						
	KRP	P	Z	13	53	29									
JAN 18	KRP	P	Z	14	42	03.0									

	H	M	S	EPICENTRE		DEPTH	MAG								
JAN 18	21	55	15.5	4.8S	145.0E	33KM	5.7	BISMARCK SEA							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP?	Z	22	03	12		34							
	RAO	P	Z	22	03	12		43							
	KRP	P	ZNE	22	03	15.0		43	-0.26						6.6
		I	ZNE			43.9									
		PCP	Z		05	11									
		BSCP	Z		09	00									
		S	NE			37									
		(*BS)	N		10	13									
		ESCS	NE		13	35									
	AFI	P	Z	22	03	18		44							
		PP	ZE		05	08									
		S	ZNE		09	48									
		(SSS)	NE		13	08									
		LR	ZE		16	30									
	COB	EP	Z	22	03	20		44							
		I	Z			22.9									
		E	Z			46.4									
	WTZ	P	Z	22	03	23		44							
		E	Z			51									
	MSZ	EP	Z	22	03	15		45							
	WEL	P	ZNE	22	03	27		45							
		S	NE		10	06									
		L	ZNE		14							24	20	31	19
	TRZ	P	Z	22	03	29		45							
	GNZ	P	ZNE	22	03	29		45	0.18						7.0
		E	ZNE			58.6									
	CBZ	P	Z	22	04	25		52							
	SBA	EP	ZNE	22	06	47.0		74							
		S	ZNE		16	36.0									
		SS	ZNE		17	21.5									

	H	M	S	EPICENTRE		DEPTH	MAG								
JAN 18	22	08	12.9	4.7S	145.0E	33KM	5.5	BISMARCK SEA							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z	22	16	18		43							
	KRP	P	ZNE	22	16	13.3		43	-0.23							6.6
		E	Z			34.8									
	AFI	P	Z	22	16	20		44							

	COB	EP	Z	22	16	18		44										
		E	Z			25												
		(*SP)	Z			31.9												
	WTZ	P	Z	22	16	21		44										
		E	Z			48												
	MSZ	P	Z	22	16	24.2		45										
	WEL	P	ZNE	22	16	27.5		45										
		ES	NE			23 12												
	TRZ	P	Z	22	16	28		45										
		EPP	Z			18 18												
		PCP?	Z			32												
	GNZ	P	ZNE	22	16	28.1		45	0.18									7.0
		E	Z			48.7												
	CBZ	EP	Z	22	17	29.5		52										
JAN 18	KRP	P	Z	22	51	12.5												
	COB	P	Z	22	51	18												
	WTZ	EP?	Z	22	51	20												
	MSZ	P	Z	22	51	22.5												
JAN 19	COB	P	Z	01	33	51.2												
	H	M	S	EPICENTRE			DEPTH	MAG										
JAN 19	02	58	47.9	4.8S	145.0E		33KM	5.2	BISMARCK SEA									
				H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP	P	Z	03	06	49.8		43	=0.94							5.9		
	COB	P	Z	03	06	54.4		44										
	GNZ	P	Z	03	07	03.1		45										
	H	M	S	EPICENTRE			DEPTH	MAG										
JAN 19	03	47	02.6	4.8S	145.0E		33KM	5.1	BISMARCK SEA									
				H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP	P	ZNE	03	55	02.7		43	=0.71							6.1		
	COB	P	Z	03	55	08		44										
	WTZ	P	Z	03	55	09.8		44										
	MSZ	P	Z	03	55	13		45										
	TRZ	P	Z	03	55	17		45										
	GNZ	P	Z	03	55	16.7		45										
JAN 19	KRP	P	ZNE	08	16	19.0			=0.66									
	COB	P	Z	08	16	24.3			=0.66									
	WTZ	P	Z	08	16	26												
	GNZ	P	Z	08	16	33.6												
	TRZ	EP	Z	08	16	33.6												
JAN 19	KRP	P	Z	08	15	46												
	COB	P	Z	08	16	00.4												
JAN 19	KRP	P	Z	08	24	23.5												
	COB	P	Z	08	24	29												
JAN 19	KRP	P	Z	11	58	22												
	WTZ	P	Z	11	58	59.8												
	H	M	S	EPICENTRE			DEPTH	MAG										
JAN 19	15	00	34.2	4.7S	145.0E		33KM	5.8	BISMARCK SEA									
				H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	RAO	P	Z	15	08	55		43										
	KRP	P	ZNE	15	08	55.1		43	=0.05							6.8		
		EPCP	Z		10	46												
	AFI	P	ZE	15	09	00		44										
		PP	ZE		10	48												
		S	ZNE		15	32												
		SSS	ZNE		19	00												
		LR	ZE		21	45												
	COB	EP	Z	15	09	00.0		44	0.24							7.1		
		I	Z			05.1												
	WTZ	P	Z	15	09	02.8		44										

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                I       Z          06
        MSZ     P       Z    15 09 06          45
        WEL     P       ZNE  15 09 08.3        45          10  8                    6.6
                S       NE      15 48
                LQ      ZNE     19                                  28 18  33 18
                LR      ZNE     21
        GNZ     P       ZNE  15 09 09.4        45  0.20                             7.0
                I       Z       16.0
                PCP     Z       11 08
                ES      ZNE     15 52
        ROX     EP      ZNE  15 09 16          46          11  7                    6.8
                ES      ZNE     16 10
                L       ZNE     20              21 16  15 16  42 18
        SBA     IP      ZNE  15 12 28.0        74
                S       ZNE     22 08.0
                SS      NE      27 27.0
                SCS     NE      31 19.0
                LR      ZNE     37 10.0

JAN 19  KRP     P       Z    15 22 19.0

JAN 19  KRP     P       Z    16 20 20.5

JAN 19  KRP     P       Z    17 08 04.5

JAN 19  KRP     P       Z    19 03 52.4

         H  M   S        EPICENTRE    DEPTH  MAG
JAN 19  20 21 53.8      60.1S 150.4E   33KM   5.4  W. OF MACQUARIE IS
                            H  M   S   DIR DIS LQ AZ  TT   AN TN   AE TE   MAG
        ROX     EP      ZNE  20 26 08          18
                ES      E       29 38
                L       ZNE     30              21 16  10 17  15 16
        SBA     IP      ZNE  20 26 10.0        19
                S       NE      29 52.0
        MSZ     P       Z    20 26 13          19
        COB     PCP     Z    20 31 47          24
        WEL     P       Z    20 27 08          24
                E       Z       30
        AFI     S       Z    20 39 00          54
                LQ      E       45 12
                LR      ZN      47 24

         H  M   S        EPICENTRE    DEPTH  MAG
JAN 20  01 49 23.5      4.8S 145.1E   33KM   4.5  BISMARCK SEA
                            H  M   S   DIR DIS LQ AZ  TT   AN TN   AE TE   MAG
        KRP     P       Z    01 57 23.6        43
        COB     P       Z    01 57 29.4        44
        MSZ     EP      Z    01 57 32.3        44

         H  M   S        EPICENTRE    DEPTH  MAG
JAN 20  04 28 33.7      18.4S 177.8W  569KM   5.6  FIJI REGION
                            H  M   S   DIR DIS LQ AZ  TT   AN TN   AE TE   MAG
        AFI     P       Z    04 30 23           7
                S       ZNE     31 50

JAN 20  KRP     P       Z    05 36 13

         H  M   S        EPICENTRE    DEPTH  MAG
JAN 20  05 34 42.7      4.6S 145.0E   33KM   4.9  BISMARCK SEA
                            H  M   S   DIR DIS LQ AZ  TT   AN TN   AE TE   MAG
        KRP     P       Z    05 42 42.5        43
                (*PP)   Z       49
        COB     EP      Z    05 42 49          44
        MSZ     EP      Z    05 42 56          44
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          H  M  S       EPICENTRE    DEPTH  MAG
JAN 20    06 38 56.1    30.4S 177.5W   34KM  4.2  KERMADEC IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   IP        Z    06 39 17.2D      1
          WTZ   EP        Z    06 40 57         9
                ES        Z       42 36
          GNZ    S        ZNE  06 43 40         9
          CRZ    P        ZNE  06 41 14.7       9 -0.57
          KRP   EP?       Z    06 41 12         9
          COB    S        Z    06 44 18        13
          MSZ    P        Z    06 43 05.2      18
          FELT RAOUL I.

JAN 20    AFI    P        Z    08 32 45
                 S        ZNE     33 14

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 20    11 36 28.6    36.4S  70.7W 213KM  6.0  HINDU KUSH
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA   EPKP     Z    11 55 07        61
                EPP      Z       57 29.1
          GNZ    PKP     ZNE  11 55 01.6      82
                 E       ZNE     13.3
          WEL    PKP     ZNE  11 54 57.1      82
          WTZ    PKP     Z    11 54 57.3      83
          MSZ    E       Z    11 54 44.4      83
                 PKP     Z       51.8
                 E       Z       47.6
                 PP      Z       56 15
                 PKKP    Z    12 05 08.0
          COB    PKP     Z    11 54 53.8      83
          KRP   E(PKP)    Z    11 54 45.0      84
                 PKP     ZNE     56.2
                 PKKP    Z    12 04 58.3
          AFI   IPKP      Z    11 54 56  U     91

JAN 20    AFI    P        Z    12 21 36
                 S        ZNE     22 16
                 T        ZNE     24 42
          MSZ    P        Z    12 21 38.7
          KRP    P        Z    12 21 40.8

JAN 20    KRP    P        Z    12 25 57

JAN 21    AFI    P        ZNE  18 10 21
                 S        ZNE     53

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 21    19 18 57.2     6.7S  71.9E 562KM  5.6  W. BRAZIL
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA  E(P)       Z    19 33 02.0      85
                 E        ZNE     41 06
                  PKS     NE      42 25.6
          WEL    E        Z    19 44 34        95
                 EL       Z    20 07

JAN 21    AFI    P        ZNE  23 10 20
                 S        ZNE     44

JAN 22    AFI   (P)       Z    00 45 36
                (S)       ZNE     47 47

          H  M  S       EPICENTRE    DEPTH  MAG
JAN 22    11 58 06.1    32.5N 139.8E 161KM  4.8  S. OF HONSHU
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P        Z    12 09 44.5      78 -1.26                        5.5
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	H M S	EPICENTRE	DEPTH	MAG	
JAN 22	13 58 30.7	14.0N 91.0W	102KM	5.5	CENTRAL AMERICA

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	13	21	16		85							
		S	Z		31	36									
		SSS	Z		41	00									
		EL	ZNE		47										
	WEL	PP	Z	13	27	04		102							
		SKS	NE		33	50									
		SP	Z		36	03									
		ESS	NE		40	10									
		L	ZNE		55										
	SBA	E(PP)	Z	13	27	26		106							
		E(S)	Z		36	12									

	H M S	EPICENTRE	DEPTH	MAG	
JAN 22	18 41 25.5	4.6S 145.0E	22KM	5.6	BISMARCK SEA

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE	18	49	27.5		43 -1.05							5.8
	COB	EP	Z	18	49	34		44							
	MSZ	EP	Z	18	49	38.5		45							

	H M S	EPICENTRE	DEPTH	MAG	
JAN 22	19 52 44.3	4.7S 145.0E	33KM	5.3	BISMARCK SEA

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	20	00	44.5		43							
	COB	P	Z	20	00	51		44							
	MSZ	EP	Z	20	00	55.8		45 -1.43							5.4

	H M S	EPICENTRE	DEPTH	MAG	
JAN 22	21 50 38.9	20.5S 172.8E	33KM	5.3	NEW HEBRIDES

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	ORZ	P	ZNE	21	53	58.3		14 0.42							
		E(PP)	Z		54	29									
	AFI	IP	ZNE	21	54	20	J	16							
		S	ZNE		57	16									
		L	Z		58	32									
	KRP	P	ZNE	21	54	44.3		18 0.22							6.3
		E	ZNE		57	20									
		L	ZE		59										
		ES	NE		58	17									
	COB	P	Z	21	55	18.4		21 -0.46							5.8
		E	Z		33	6									
		E	Z		56	11.3									
	WEL	P	ZNE	21	55	19.3	DN	21 -0.10							6.1
		E	Z		58	07									
		S	ZNE		59	19									
		SS	NE			42									
		L	ZNE	22	00	30							48 21	18 18	
	MJZ	P	ZNE	21	55	49		24							
		E	E	22	00	32									
	MSZ	P	Z	21	55	57.7		24 -0.09							6.3
		E	Z		57	17									
	ROX	P	ZNE	21	56	06.5		25		14 8					6.6
		S	NE	22	00	36									
		E	E		01	12									
		LQ	NE			59									
		LR	ZNE		02	20							32 14	23 16	42 15
	MNW	P	Z	21	56	09.0		25							
	SBA	IP	ZNE	22	00	28.0		57					4 10	12 12	6.8
		S	Z		08	27.0									
		LR	ZNE		17	49.5									

	H M S	EPICENTRE	DEPTH	MAG	
JAN 22	22 37 41.1	18.1S 174.6W	135KM	5.2	TONGA

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	22	38	48		5							

		S	ZNE		39 36										
	KRP	P	Z	22	42 23.2		22	-0.88							5.5
	COB	P	Z	22	42 55		25								
	MSZ	P	Z	22	43 41.0		30								

	H	M	S	EPICENTRE		DEPTH	MAG								
JAN 23	12	54	16.1	20.9S	178.6W	603KM	4.8	FIJI REGION							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P		Z	12	55	50.6		5								
	AFI	P		Z	12	56	27		10								
		S		ZNE		58	11										
	CRZ	P		ZNE	12	57	32.5		16	-0.53							5.7
	KRP	P		ZNE	12	57	51.0J		18	-0.90							5.5
	WEL	P		Z	12	58	18.8		21	-0.63							5.9
		(PCP)		Z	13	01	50										
	COB	P		Z	12	58	22.2		21	-1.05							5.4
	MSZ	EP		Z	12	59	06		26								

	H	M	S	EPICENTRE		DEPTH	MAG								
JAN 23	17	18	39.4	13.1S	166.3E	33KM	5.3	NEW HEBRIDES							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P		Z	17	23	27		21								
		S		ZNE		27	20										
		L		ZNE		28	48										
	CRZ	EP		Z	17	23	52.8		22								
	KRP	EP?		Z	17	24	16		26								
		E		Z			29.5										
		SCP		Z		31	22.7										
	COB	EP		Z	17	24	30		28								
		E		Z		31	21										
		SCP		Z			28.6										
	WEL	P		Z	17	24	28		29								
		ES		NE		29	32										
		L		ZNE		30											
		SCP		Z		31	30.4										
	MSZ	P		Z	17	24	58		31								
		*PP		Z		25	08.5										
		(*SP)		Z			13.7										
		ESCP		Z		31	41										
	SBA	P		Z	17	29	16.5		65								

	H	M	S	EPICENTRE		DEPTH	MAG								
JAN 23	18	04	00.2	13.2S	166.6E	33KM	5.3	NEW HEBRIDES							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P		Z	18	08	45		21								
		S		ZE		12	48										
		SS		N		13	04										
		L		ZE		14	08										
	KRP	EP		Z	18	09	31.7		26								
		E		Z			50										
		SCP		Z		16	45										
	COB	P		Z	18	10	08		28								
		SCP		Z		16	51.3										
		*SP		Z		10	20										
	MSZ	P		Z	18	10	20		31								
		*PP		Z			30										
		*SP		Z			35.4										
		E		Z			55										
	SBA	P		Z	18	14	37.3		65								
JAN 23	KRP	P		Z	19	59	59.7										
	MSZ	P		Z	20	01	07.8										
	WEL	EP		Z	20	00	33										

	H	M	S	EPICENTRE		DEPTH	MAG								
JAN 23	20	19	17.2	6.7S	129.3E	192KM	5.2	BANDA SEA							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P		Z	20	28	03		51								

	H	M	S	EPICENTRE			DEPTH	MAG											
JAN 23	21	17	52.1	13.2S	166.4E		33KM	5.9	NEW HEBRIDES										
					H	M	S	DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		EP		Z	21	20 41			12									
	AFI		IP		Z	21	22 36	J		21									
			S		ZNE		26 36												
	RAO		EP		Z	21	22 48			22									
	KRP		P		Z	21	23 24			26									
			I		Z		45.0												
			I		Z		53.8												
			PPP		Z		24 10.5												
			S		NE		28 27												
			(SS)		NE		29 22												
			L		ZNE		31												
			E		Z		33 19												
	GNZ		EP		ZNE	21	23 38			27									
			E		ZNE		56.2												
	COB		EP		Z	21	23 46			28	-0.16								6.4
			E		Z		24 02.2												
	WEL		EP		ZNE	21	23 37			29									
			PCP		Z		27 11												
			S		ZNE		28 44												
			*SS		NE		29 06.3												
			L		ZNE		40												
			SCP		Z		30 41												
			E		NE		31 10												
			SCS		ZNE		34 36												
	MSZ		EP		Z	21	24 11			31									
			PCP		Z		27 27												
			L		Z		34												
	CRZ		P		Z	21	25 25.7			39									
	SBA		IP		ZNE	21	28 28.0			65			22	10					7.2
			S		Z		37 32.0								27	13			7.1
			LQ		E		45												
			LR		ZNE		49												
JAN 23	KRP		P		ZNE	21	30 34.0				-0.83								
			(*SP)		Z		47.6												
	COB		P		Z	21	30 37				-0.90								
	MSZ		P		Z	21	30 54.3												
	H	M	S	EPICENTRE			DEPTH	MAG											
JAN 23	21	34	37.7	13.0S	166.2E		33KM	5.1	NEW HEBRIDES										
					H	M	S	DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP		ZNE	21	40 14			26									
			SCP		Z		47 19.8												
	COB		P		Z	21	40 34			29	-0.36								6.2
			E		Z		53.6												
			ESCP		Z		47 21												
	WEL		EP		Z	21	40 41			29									
			ES		NE		45 32												
			SCP		Z		47 32												
	MSZ		P		Z	21	40 57.7			32	-0.74								6.1
	SBA		EP		ZNE	21	45 11			65									
JAN 24	MNG		P		Z	00	21 49												
JAN 24	MNG		P		Z	01	06 46.0												
JAN 24	MNG		P		Z	01	08 17.8												
JAN 24	MSZ		P		Z	01	27 27.4												
JAN 24	MNG		P		Z	02	42 19												
JAN 24	AFI		E		ZNE	03	35 12												
			(S)		ZE		36 19												

	KRP	E(P)	Z	03	32	35													
	MNG	P	Z	03	33	05.3			=1.15										
	COB	EP	Z	03	33	12.5													
	WEL	P	Z	03	33	16													
		S	NE		37	22													
		L	ZNE		38														
	MSZ	EP	Z	03	33	51.5													

	H	M	S	EPICENTRE			DEPTH	MAG	NEW HEBRIDES									
JAN 24	03	36	03.3	13.2S		166.4E	60KM	5.0										
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	03	40	48			21									
	KRP	EP	Z	03	41	35			26									
	COB	EP	Z	03	42	04			28									
		(*SP)	Z			22												
	MNG	EP	Z	03	41	56			28									
	MSZ	P	Z	03	42	21			31									

	H	M	S	EPICENTRE			DEPTH	MAG	NEW HEBRIDES									
JAN 24	03	47	50.0	20.4S		172.2E	33KM	5.2										
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	CRZ	EP	ZNE	03	51	10			14									
	AFI	(S)	ZNE	03	55	20			17									
	KRP	P	ZNE	03	51	55.0		18	=0.64									5.5
	MNG	P	Z	03	52	24.9		20	=0.69									5.5
		*PP	Z			34.5												
		(PP)	Z			45												
	COB	EP	Z	03	52	30.8		21										
		*PP	Z			41.8												
	WEL	P	Z	03	52	32		21	=0.46									5.8
		S	NE		56	32												
	MSZ	EP	Z	03	53	12		24	=0.95									5.5
	SBA	EP	Z	03	57	41.5		58										

	H	M	S	EPICENTRE			DEPTH	MAG	NEW HEBRIDES									
JAN 24	03	55	42.5	13.0S		166.4E	28KM	5.6										
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	P	ZNE	04	00	29			21									
		(PP)	ZE		02	00												
		S	ZNE		04	32												
		L	ZNE		06													
	CRZ	EP	ZNE	04	00	37			22									
	KRP	P	ZNE	04	01	19			26	=0.54								6.0
		*SP	Z			35.2												
		PCP	Z		04	38												
		PCS	Z		08	24												
		E	Z			32												
	COB	P	Z	04	01	38			29									
		PCS	Z		08	29												
	MNG	P	Z	04	01	39.0			29									
		E	Z		04	02												
		EPCP	Z			57												
		S	Z		06	24												
		E	Z		07	20												
		PCS	Z		08	30												
	WEL	EP	Z	04	01	52			29									
		ES	NE		06	36												
		L	ZNE		07								19	18	21	18		
		SCP	Z		08	31												
	MSZ	P	Z	04	02	05.0			32									
		EPCS	Z		08	41.5												
	SBA	IP	ZNE	04	06	20.5U		65	=0.01		6	9						6.9
		EPP	Z		09	21.5												
		S	NE		15	09.5												

JAN 24	MNG	EP?	Z	04	11	41													
	KRP	(P)	Z	04	11	33													

	H	M	S	EPICENTRE		DEPTH	MAG												
JAN 24	04	30	02.6	3.5N	123.8E	417KM	5.3	CELEBES SEA											
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ		P	Z	04	39	44.5		62	-0.99							5.6		
	COB		P	Z	04	39	49		63										
	KRP		P	Z	04	39	51.3		63										
	MEL		P	Z	04	39	56.2		64										
	MNG		P	Z	04	39	57.6J		64	-1.26							5.5		
JAN 24	MNG		P	Z	04	42	10												
JAN 24	MNG		P	Z	05	13	13.8												
	H	M	S	EPICENTRE		DEPTH	MAG												
JAN 24	05	17	00.7	3.5S	151.3E	12KM	5.8	NEW IRELAND											
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	COB		EP	Z	05	24	54		42										
	MNG		P	Z	05	25	00.2		43										
JAN 24	MNG		P	Z	05	39	54												
	H	M	S	EPICENTRE		DEPTH	MAG												
JAN 24	05	49	27.3	13.8N	124.1E	82KM	5.0	LUZON											
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ		EP	Z	06	00	43.8		70										
JAN 24	MSZ		EP?	Z	06	08	08												
	KRP		EP	Z	06	08	37												
	MNG		EP	Z	06	08	43												
	H	M	S	EPICENTRE		DEPTH	MAG												
JAN 24	06	52	44.3	13.0S	166.3E	33KM	4.7	NEW HEBRIDES											
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP		EP	Z	06	11	08		26										
	MNG		EP	Z	06	11	21		29										
	MSZ		EP	Z	06	11	47		32										
JAN 24	MNG		P	Z	06	16	15												
JAN 24	MNG		P	Z	06	52	12												
	H	M	S	EPICENTRE		DEPTH	MAG												
JAN 24	07	28	24.3	21.0N	120.2E	33KM	4.9	TAIWAN											
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MNG		EP?	Z	07	40	17		80										
	H	M	S	EPICENTRE		DEPTH	MAG												
JAN 24	07	59	14.9	3.6S	151.3E	14KM	4.3	NEW IRELAND											
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MNG		EP	Z	08	07	14		43										
JAN 24	MNG		P	Z	09	34	13												
JAN 24	MNG		P	Z	13	30	40.8												
	H	M	S	EPICENTRE		DEPTH	MAG												
JAN 24	15	15	26.1	3.7S	152.0E	6KM	5.3	NEW IRELAND											
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	CRZ		P	Z	15	22	34		36										
	KRP		P	Z	15	23	07		40										
		E		Z			09.3												
			PCP	Z		23	15												
	COB		P	Z	15	23	15		42	-0.73							6.0		
		E		Z			21.2												
	MNG		P	Z	15	23	21		42										
	MSZ		P	Z	15	23	32		43	-1.13							5.8		

	H	M	S	EPICENTRE		DEPTH	MAG	
JAN 24	17	05	27.9	4.4S	152.4E	33KM	5.0	NEW BRITAIN

			H	M	S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG
MNG	P	Z	17	13	14		42							

	H	M	S	EPICENTRE		DEPTH	MAG	
JAN 24	17	55	29.8	12.8S	166.4E	33KM	4.8	SANTA CRUZ IS

			H	M	S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG
AFI	P	Z	18	00	13		21							
	ES	ZNE		04	32									
	L	ZNE		06	40									
MNG	P	Z	18	01	25		29							

	H	M	S	EPICENTRE		DEPTH	MAG	
JAN 24	19	38	07.1	26.1S	177.2W	92KM	5.5	S. OF FIJI

			H	M	S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG
RAO	P	Z	19	38	57		3							
	S	Z		39	37									
CRZ	P	ZNE	19	40	56		12							
WTZ	S	Z	19	43	16.5		13							
GNZ	EP	ZNE	19	41	06.5		13							
	S	ZNE		43	23.6									
KRP	EP	ZNE	19	41	10		13	-0.4I						
	ES	ZNE		43	38									
CNZ	EP	Z	19	41	33.5		14							
	S	Z		43	58									
MNG	EP	Z	19	41	42		16							
	S	Z		44	20.6									
	SCP	Z		50	05									
	I	Z		41	42.8									
WEL	E	Z	19	42	32		17							
	S	ZNE		44	38.5									
COB	EP	Z	19	41	58		17							
	S	Z		44	54									
SBA	IP	ZNE	19	47	13.5U		52	-0.31						6.8
	*PP	Z			35.5									
	ES	NE		55	20									

	H	M	S	EPICENTRE		DEPTH	MAG	
JAN 25	02	06	23.3	22.5N	122.3E	33KM	6.3	TAIWAN

			H	M	S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG
AFI	IP	Z	02	17	58.5U		74							
	IS	ZNE		27	36									
	SS	NE		32	00									
	L	ZNE		40										
CRZ	P	ZNE	02	18	00		74							
	PCP	Z			24.3									
RAO	EP	Z	02	18	19		77							
KRP	P	ZNE	02	18	22.4		78	-0.42						6.7
	*PP	Z			32.8									
	PCP	Z			48.5									
	PP	ZNE		21	24									
	PCS	ZNE			47.5									
	ES	NE		28	35									
COB	EP	Z	02	18	23.8		79							
	PP	Z		21	27									
	E	Z		23	17.5									
WTZ	P	Z	02	18	26		79							
	PCP	Z			50.8									
MNW	P	Z	02	18	28.6		79							
	PP	Z		21	30									
MNG	P	Z	02	18	29.9		80	0.18						7.3
	I	Z			36.2									
	(PCP)	Z			38.9									
	I*SP	Z			45.8									
	(*SPCP)	Z			53.9									
	E	Z		20	54.2									

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                PP      Z       21 35
              E         Z       22 04
              E         Z       24 00
        WEL    P        ZNE 02 18 29        80
               PP       Z       21 44
               PPP      Z       23 16
              E         Z       27 04
               S        ZNE     28 30
               SKS      NE              45
               PS       NE      29 41
              E         Z       51
               SS       NE      33 28
               SSS      NE      37 05
               LQ       ZNE     39                                      36 18  36 22
               LR       ZNE     43
        ROX    EP       ZNE 02 18 32        80 -0.35                                        6.8
               *SP      Z               45.8
              E         Z               56
               S        NE      28 37
        GNZ    P        ZNE 02 18 31.6      80
               (PCP)    Z               55
        CBZ    P        Z   02 19 04        85
        SBA    EP       ZNE 02 20 24       103
               PKP      ZNE     24 53
               PKP      ZNE             53
               SKS      ZN      31 02.8

         H  M  S         EPICENTRE    DEPTH  MAG
JAN 25  03 41 23.7      23.0N 122.2E   33KM  5.9  TAIWAN
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P        Z   03 53 02        74
        KRP    EP       ZNE 03 53 26.5      79
               ES       NE  04 03 32
        COB    EP       Z   03 53 32        79
        WTZ    EP       Z   03 53 31        80
               PCP      Z               51
        MNW    EP       Z   03 53 35        80
               PCP      Z               59.4
        WEL    EP       ZNE 03 53 38        80
        MNG    EP       Z   03 53 34        80
               *PP      Z               45.3
               PP       Z       56 45
        ROX    EP       Z   03 53 34        80 -0.60                                        6.6
               PCP      Z               49
        GNZ    EP       ZNE 03 53 38        81  0.04                                        7.2
        SBA    EPKP     Z   03 59 30       104

JAN 25  AFI    IP       ZNE 14 37 47
               S        ZNE     58 08

         H  M  S         EPICENTRE    DEPTH  MAG
JAN 25  15 04 28.4      22.5N 141.9E  220KM  5.2  VOLCANO IS
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        ZNE 15 15 05.2      68 -0.82                                        6.0
        WTZ    P        Z   15 15 09        69
        CNZ    P        Z   15 15 11.5      69
        COB    EP       Z   15 15 15        69
        GNZ    P        ZNE 15 15 14.2      70
        MNG    P        Z   15 15 17.2      70 -1.49                                        5.3
        WEL    P        Z   15 15 18.9      70 -0.66                                        6.1

         H  M  S         EPICENTRE    DEPTH  MAG
JAN 25  16 01 38.3      4.7S 145.0E   31KM  4.9  BISMARCK SEA
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z   16 09 36.6      43 -1.26                                        5.5
        COB    P        Z   16 09 42.8      44
        MNG    P        Z   16 09 50.0      45 -1.19                                        5.6
        GNZ    EP?      Z   16 09 51        45
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	H	M	S	EPICENTRE		DEPTH	MAG									
JAN 26	03	41	57.1	2.6S	102.5E	174KM	5.5	S. SUMATRA								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB		P	Z	03	53	12.5		73	-0.93							5.9
	KRP		EP	Z	03	53	22		75								
	CNZ		P	Z	03	53	22.0		75								
			I	Z			23.3										
	MNG		P	Z	03	53	23.0		75	-1.00							5.8
			I	Z			24.2										

	H	M	S	EPICENTRE		DEPTH	MAG									
JAN 26	04	17	46.1	18.1S	178.5W	646KM	4.1	FIJI REGION								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	Z	04	19	32		8								
			S	ZNE		21	05										
JAN 26	AFI		P	Z	08	49	56										
			S	ZNE		51	30										

	H	M	S	EPICENTRE		DEPTH	MAG									
JAN 26	08	53	07.3	6.1S	154.1E	60KM		SOLOMON IS								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	09	00	14.0		37	-1.04							5.8
	WTZ		P	Z	09	00	20.0		38								
	CNZ		P	Z	09	00	22.8		38	-1.32							5.5
	COB		EP	Z	09	00	26		39								
	GNZ		P	ZNE	09	00	28		39	-0.40							6.4
			P	ZNE			28			-0.40							6.4
	MNG		P	Z	09	00	30.0		39	-1.13							5.7

	H	M	S	EPICENTRE		DEPTH	MAG									
JAN 26	19	24	26.0	17.9S	178.6W	599KM	4.4	FIJI REGION								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	Z	19	26	15		8								
			S	ZNE		27	41										
	KRP		EP	Z	19	28	27		21								
	MNG		P	Z	19	28	46		23								

	H	M	S	EPICENTRE		DEPTH	MAG									
JAN 26	23	00	24.4	20.2S	179.0W	668KM	5.7	FIJI REGION								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P	Z	23	01	53.5		4								
	RAO		P	Z	23	02	32.5		9								
			S	Z		04	21										
			SCP	Z		10	19.0										
			ESCS	Z		13	57										
	AFI		IP	Z	23	02	33	U	9								
			S	ZNE		04	19										
	CRZ		P	ZNE	23	03	41.9		16								
			I	ZNE			45.1										
			E	Z		04	36.7										
			E	Z			57.6										
			S	NE		06	30										
			(eSP)	Z			48										
	ONE		P	E	23	03	47		17								
			S	E		06	35										
			E	E		07	14										
	GBZ		P	Z	23	03	46.2		17								
			I	Z			50.6										
			E	Z		04	53.2										
			ES	Z		06	30										
			SCP	Z		10	32										
	AUC		P	Z	23	03	54.2		17								
	ECZ		EP	Z	23	03	55		18								
			E	Z		04	53.9										
			S	Z		06	40										
			SCP	Z		10	34.8										

	ESCS	Z		14	15.5			
WTZ	P	Z	23	03	56.30	18		
	I	Z			59.1			
	E	Z		05	18.9			
	S	Z		06	50			
	SCP	Z		10	32.6			
	E	Z			38.2			
	SCS	Z		14	12			
KRP	P	ZNE	23	04	00.1J	18		
	I	ZNE			03.3			
	E	Z		05	37.8			
	ES	NE		07	08			
	E	Z			21.0			
	SCP	Z		10	34			
	E	Z			43			
	SCS	NE		14	13.7			
GNZ	EP	ZNE	23	04	01.5	19	1.06	7.1
	I	ZNE			04.3			
	I	Z			14.0			
	S	ZNE		06	56			
	ISCP	ZNE		10	36.7			
	SCS	ZNE		14	18.6			
TUA	EP	Z	23	04	04.2	19		
	E	Z			06.3			
	E	Z			15.6			
	S	Z		07	03			
	SCP	Z		10	36			
	ESCS	Z		14	13			
	E	Z			20			
CNZ	P	Z	23	04	08.8	20		
	I	Z			11.0			
	I	Z			24.6			
	S	Z		07	15			
	(PCP)	Z		08	16			
	SCP	Z		10	36			
	EPCS	Z		11	14.5			
	ESCS	Z		14	13			
TRZ	P	Z	23	04	12.2	20		
	E	Z			42			
TNZ	E	Z	23	04	07.5	20		
	SCP	Z		10	39.4			
MNG	P	Z	23	04	20.5	21		
	I	Z			24.0			
	I	Z			38.0			
	S	Z		07	29.5			
	SCP	Z		10	40.5			
	I	Z			48			
	SCS	Z		14	18.5			
	E	Z			29.0			
WEL	P	Z	23	04	28.3	22	0.29	6.6
	E*PP	Z		05	51			
	*SP	Z		07	20			
	PCP	ZNE			33			
	S	ZNE			46			
	SCP	ZNE		10	43.1			
	PCS	ZNE		11	44			
	E	Z		14	22.1			
	SCS	ZNE			25.5			
	E()	Z		15	24			
	E(*SSCS)	NE		18	55			
COB	P	Z	23	04	31.3	22		
	E	Z			34.0			
	S	Z		07	51.7			
	SCP	Z		11	41.5			
	SCS	Z		14	27			
CIZ	P	ZNE	23	04	51	24		
	S	NE		09	21			
	ESCP	Z		10	49.3			

	GPZ	P	N	23	04	56	24						
		S	N		08	31.4							
		SCP	N		10	52							
		SCS	N		14	38							
	MJZ	P	NE	23	05	01.2	25						
		E	NE			10							
		S	NE		08	40							
		SCP	ZNE		10	54							
		SCS	NE		14	40							
		(*SSCS)	NE		17	18							
	OMZ	P	Z	23	05	08.8	25						
		PCP	Z		07	57							
		S	Z		09	05							
		SCP	Z		10	56							
		SCS	Z		15	15							
	MSZ	P	Z	23	05	16.8	27						
		E	Z		06	30							
		S	Z		09	10.5							
		SCP	Z		11	01							
		PCS	Z		12	03.3							
		E	Z			20							
		SCS	Z		14	52							
	ROX	P	Z	23	05	18	27						
		S	Z		09	13							
		SCP	Z		10	59							
		SCS	NE		14	53							
		*SSCS	E		19	23							
	MNW	P	Z	23	05	25	28						
		I	Z			27.3							
		I	Z			33.8							
		PCP	Z		07	01							
		ES	Z		09	29							
		SCP	Z		11	00.5							
	CBZ	P	Z	23	06	15	34						
		*PP	Z		08	02.5							
	SBA	IP	ZNE	23	09	19.8J	58	0.14	13 10				6.3
		I*PP	ZNE		11	23.4							
		ISCP	Z		13	03.2							
		EPCS	NE			15							
		S	ZNE		16	41				20 15			6.4
		SCS	ZNE		18	09							
		ESS	NE		20	18							

	H	M	S	EPICENTRE		DEPTH	MAG							
JAN 26	23	09	01.7	20.3S	178.7W	686KM	4.9	FIJI REGION						
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN TN	AE TE	MAG
	NDF	EP	Z	23	10	34		4						
	RAO	P	Z	23	11	10.2		9						
		ES	Z		13	01								
	CRZ	P	ZN	23	12	20.7		16						
	KRP	P	Z	23	12	39.6		18	-0.82					5.2
	GNZ	P	Z	23	12	31.2		18	-0.41					5.7
	MNG	P	Z	23	12	59.3		21						
		ES	Z		16	12								
		E	Z			24								
		SCP	Z		19	16.9								
	WEL	EP	Z	23	13	06		22	-0.91					5.3
	COB	P	Z	23	13	10.2		22						
	MSZ	EP	Z	23	13	52		27						
	CBZ	E	Z	23	11	21.7		34						
	SBA	P	Z	23	17	57		58	-0.93					5.4

	H	M	S	EPICENTRE		DEPTH	MAG							
JAN 26	23	32	36.5	20.2S	179.0W	689KM	5.1	FIJI REGION						
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN TN	AE TE	MAG
	NDF	EP	Z	23	34	07.5		4						
	RAO	P	Z	23	34	43.6		9						
		S	Z		36	31								

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      AFI   IP        Z   23 34 45  D     9
             S        ZNE     36 28
      CRZ    P        Z   23 35 53.9      16 -0.39                          5.6
      WTZ    P        Z   23 36 08.2      18
      KRP    P        ZNE 23 36 12.4      18 -0.65                          5.4
             E        Z       37 52
              SCP     Z       42 43
      GNZ    P        ZNE 23 36 18.7      19 -0.25                          5.8
             S        ZNE     39 06
              SCP     Z       42 45.8
            ESCS       ZNE     46 31
      MNG   EP        Z   23 36 32        21
             E        Z       45.8
             E        Z       37 37.5
              S       Z       39 42
            (SCP)     Z       42 49.3
            (SCP)     Z       56.2
          E(SCS)      Z       46 27
          E(SCS)      Z       35
      WEL    P        Z   23 36 39.8      22 -0.73                          5.5
            ESCP      Z       42 51
            ESCS      Z       46 43
      COB    P        Z   23 36 43.2      22
          E(*SP)      Z       38 56.5
             S        Z       40 04
      MSZ    P        Z   23 37 25        27
      SBA    P        Z   23 41 30.3      58 -0.85                          5.4

       H  M  S        EPICENTRE    DEPTH  MAG
JAN 27 03 13 49.9     18.2S 173.4W  40KM  4.9  TONGA
                                H  M  S   DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
      AFI    P        Z   03 15 01          5
             S        ZNE     57
             L        ZNE     20
      GNZ   EP        Z   03 18 34        22
      KRP    P        ZNE 03 18 36.0      22 -1.16                          5.2
             E        Z       38.5
            (*PP)     Z       50.0
      MNG   EP        Z   03 18 59.5      24

JAN 27 AFI    P        ZNE 04 31 26
            (S)        NE      32 08
             L        ZNE     35

JAN 27 RAO    P        Z   17 51 01
            ES         Z       37
      WTZ    P        Z   17 51 48.7
             I        Z       50.7
            ES         Z       53 13
      GNZ    P        ZNE 17 51 52.2          0.00
             I        ZNE     56.5
             S        ZNE     53 22.0
      KRP    P        Z   17 51 57.0         -0.55
             I        ZNE     58.9
            ES        ZNE     53 34
      MNG   EP        Z   17 52 17.5          0.17
             I        Z       22.5
             E        Z       54 07
              S       Z       13.5
      WEL   EP        Z   17 52 30
             E        Z       32
              S       Z       54 32
      COB   EP        Z   17 52 39
            ES         Z       54 44.5
      AFI    P        Z   17 53 56
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	H	M	S		EPICENTRE			DEPTH	MAG								
JAN 28	01	16	21.7		19.4S 169.1E			124KM	5.1	NEW HEBRIDES							
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ		P	ZNE	01	19	53.3	JSE	15	0.54								6.7
			(PCP)	ZNE		22	41											
			S	ZNE			54.7											
	RAO		P	Z	01	19	54		15									
	ONE		P	E	01	20	15.7		17									
	GBZ		P	Z	01	20	20.3		18									
			*PP	Z			44.5											
			*SP	Z			59.2											
			S	Z		23	45											
	AFI		P	ZNE	01	20	40		19									
			PCS	Z		28	20											
	KRP		EP	ZNE	01	20	39.0		19	0.50								6.7
			*PP	ZNE		21	05.3											
			(*SP)	ZNE			15.8											
			E	ZNE		22	14.3											
			S	ZNE		24	19											
			E	NE			36.5											
			E	E		25	40											
			SCP	Z		28	22											
			SCS	NE		32	02											
	WTZ		P	Z	01	20	44.3		20									
			(*SP)	Z		21	16											
			E	Z			39.3											
			S	Z		24	32											
	EOZ		P	Z	01	20	47.2		20									
			I	Z			53.5											
			(PP)	Z		22	08.8											
			ES	Z		24	29.5											
	TNZ		P	Z	01	20	51		20									
			(*SP)	Z		21	16.4											
			E	Z			28											
	ONZ		P	Z	01	20	53.0		21	0.36								6.6
			I(*PP)	Z		21	12.6											
			I(*SP)	Z			20.0											
			I	Z			25.7											
			ES	Z		24	46.8											
	TUA		P	Z	01	20	52.7		21									
			*PP	Z		21	14.2											
			E	Z			29.4											
			S	Z		24	39											
	GNZ		P	ZNE	01	20	53		21	0.66								6.9
			(*SP)	Z		21	18.2											
			E	ZNE		22	31.2											
			E	Z		23	20.6											
			S	ZNE		24	39											
			E	ZNE		25	01.8											
			SCS	NE		32	12											
	TRZ		P	Z	01	20	58.2		21									
			S	Z		24	50											
			(PCP)	Z			58											
			(*PPCP)	Z		25	14											
	MNG		P	Z	01	21	04.7		22									
			I(*PP)	Z			25											
			I(*SP)	Z			35											
			(PP)	Z		22	05											
			E	Z			43											
			E	Z		23	07.0											
			S	Z		24	55											
			E*PPCP	Z		25	35											
			E(SCP)	Z		28	27											
			ESCS	Z		32	15											
	COB		P	Z	01	21	07.0		22	0.23								6.6
			(*PP)	Z			28.6											
			E	Z		22	54.5											

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                E          Z        24 32
                ES         Z        25 05
               E(SCP)      Z        28 28
          WEL   P          ZNE 01 21 10.9      22 -0.28   10 10                  6.2
                *PP        Z           30.6
               (*SP)       Z           35.5
                E          Z        22 40.8
                 S         ZNE      25 05.2
                 PCP       Z           22.5
                *SS        ZNE         52
          OMZ   P          Z   01 21 41.6      26
                E          Z        25 46
                ES         Z        26 04
          ROX   P          ZNE 01 21 44        26
               (PP)        ZNE      22 01
                ES         ZNE      26 07                                 16 10  6.5
                 L         ZNE                                 22 15  30 12
          MNW   P          Z   01 21 47        26
               (PP)        Z        22 14
          WPZ   EP         Z   01 21 55        27
               (PP)        Z        22 21
          CBZ   P          Z   01 22 48        33
          SBA   P          ZNE 01 26 07.2      59 -0.08                          7.0
                I*PP       Z           35.1
                IS         ZNE      34 05                                 32 10  7.2
                 SCS       E           53
                 LQ        N        40
                 LR        ZNE      45

JAN 28    KRP   EP         Z   13 45 35

JAN 28    RAO    P         Z   16 26 41.0
                 S         Z        27 58
          AFI    P         Z   16 27 05
                (S)        ZNE      28 38

           H  M  S          EPICENTRE    DEPTH  MAG
JAN 28    16 18 26.0       20.9N 120.2E   33KM  5.4  PHILIPPINES
                                H  M  S    DIR DIS LG-A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   EP         Z   16 29 04         78
          COB  E(PCP)      Z   16 29 51         79
          MNG    P         Z   16 29 25.0       80
                 E         Z           28.8

JAN 29    RAO   EP         Z   01 48 12
                 S         Z        49 14
          AFI    P         Z   01 49 34
                 S         ZNE      51 31
                 T         ZNE      59 34

JAN 29    AFI    P         ZNE 05 26 41
                 S         ZNE      27 57

           H  M  S          EPICENTRE    DEPTH  MAG
JAN 29    06 17 01.0       55.6S 129.4E   33KM  4.6  PACIFIC-ANTARTIC R
                                H  M  S    DIR DIS LG-A/T  AZ TZ  AN TN  AE TE  MAG
          SBA    S         N   06 28 36         25
                 LQ        NE       30 07.0
                 LR        ZNE      31 20.5
          AFI    S         ZNE 06 33 52         61
                 SS        NE       38 32
                 L         ZNE      40 20

           H  M  S          EPICENTRE    DEPTH  MAG
JAN 29    07 45 43.4       19.1S 174.6W   84KM  5.0  TONGA
                                H  M  S    DIR DIS LG-A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   IP         Z   07 47 05   U     6
                 S         ZNE      48 02
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          T       ZNE    52
     RAO   S      Z   07 50 02        11
     GNZ   EP     Z   07 50 18,5      21
     KRP   P      Z   07 50 18,6      21  -1.08                          5.1
     MNG   EP     Z   07 50 39,5      23
     COB   P      Z   07 50 58,4      24
     MSZ   P      Z   07 51 45        29

      H  M  S       EPICENTRE    DEPTH  MAG
JAN 29 08 41 48,5   7.8S 158.3E   78KM  5.1  SOLOMON IS
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MNG   P      Z   08 48 42        36
     MSZ   EP     Z   08 48 57        38

      H  M  S       EPICENTRE    DEPTH  MAG
JAN 29 08 35 51,2   5.5S 147.0E  212KM  4.9  NEW GUINEA
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     AFI   P      Z   08 43 18,5      41
     KRP   EP     Z   08 43 19        41
     COB   EP     Z   08 43 26        42
     MSZ   EP?    Z   08 43 35        43
     MNG   P      Z   08 43 33,7      43

      H  M  S       EPICENTRE    DEPTH  MAG
JAN 29 10 15 07.2   6.0S 152.9E   32KM  4.7  NEW BRITAIN
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP   E      Z   10 22 23,8      38
     MNG   P      Z   10 22 14,4      40

JAN 29 KRP   EP     Z   12 30 38

      H  M  S       EPICENTRE    DEPTH  MAG
JAN 29 16 57 47.3   18.1S 178.6W  652KM  4.3  FIJI REGION
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     NDF   P      Z   16 59 13         4
     AFI   P      Z   16 59 38         9
           S      ZNE 17 01 08
     KRP   EP     Z   17 01 44        20
     MNG   EP     Z   17 02 04,0      23
     COB   EP     Z   17 02 15        24

JAN 29 KRP   EP     Z   18 52 54,6

      H  M  S       EPICENTRE    DEPTH  MAG
JAN 29 20 34 11.8   5.4S 131.4E   60KM  5.5  BANDA SEA
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   P      Z   20 43 06        50
     MNG   EP     Z   20 43 22        53

JAN 29 RAO   P      Z   22 45 39,5
          ES      Z       46 44
     AFI   P      Z   22 46 57
           S      ZNE     49 17
     KRP   EP     Z   22 47 07
           I      Z         10,3
           S      E       49 43
     GNZ   P      ZNE 22 47 08
           S      ZNE     49 40
     MNG   P      Z   22 47 29,2          -0,73
           E      Z         31,4
           S      Z       50 19,3
     WEL   P      Z   22 47 40
           S      Z       50 30
     COB   EP     Z   22 47 42
           I      Z         43,8
           S      Z       51 39

JAN 30 AFI   P      ZNE 02 24 19
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                S       ZNE     25 39

JAN 30  COB   EP        Z    03 33 11
        MNG    P        Z    03 33 17.2
        MSZ    P        Z    03 33 27.2

JAN 30  KRP    P        Z    04 24 57.5
        MNG    P        Z    04 25 19.3
               S        Z       27 07.0

JAN 30  KRP    P        Z    04 51 03
        MNG    P        Z    04 51 23.9
              (S)       Z       53 06

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 30  06 56 28.1     4.7S 145.1E    46KM  5.0  BISMARCK SEA
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z    07 04 27.2      43 -1.11                  5.7
        COB    P        Z    07 04 32        44
        MSZ   EP        Z    07 04 41.3      45
        MNG    P        Z    07 04 40.8      45 -1.13                  5.7
        TRZ   EP        Z    07 04 41        45
        MNW   EP        Z    07 04 43        45

JAN 30  KRP    P        Z    13 27 18.8
        CNZ   EP        Z    13 27 20
        MNG    P        Z    13 27 40.2         -0.88
        COB    P        Z    13 28 51.0         -1.05

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 30  17 32 06.9     19.5N 146.1E   33KM  5.1  MARIANA IS
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        WEL   EP        Z    17 42 50.0      66
        MNG    P        Z    17 42 48.7      66 -1.10                  6.1
        COB   EP        Z    17 42 46        65
        KRP    P        Z    17 42 36        63
        MSZ   EP        Z    17 42 55        67

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 30  20 18 51.1     17.8S 178.8W  649KM  4.8  FIJI REGION
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P       ZNE 20 20 43        8
               S       ZNE    22 13

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 31  00 42 03.6     16.5S 178.2W  477KM  4.9  FIJI REGION
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP        Z    00 43 36        7
               S       ZNE     45 00
        RAO   ES        Z    00 47 07        13
        CRZ   EP        ZNE  00 46 04.0      20 -0.51                  6.0
        GRZ   EP        Z    00 46 08.5      20
        KRP   EP        ZNE  00 46 23.8      22 -0.95                  5.5
        GNZ    P        ZNE  00 46 25.0      22 -0.42                  6.0
               S       NE      49 01
        CNZ    P?       Z    00 46 30        23
        MNG    P        Z    00 46 45        25
        WEL   EP        ZNE  00 46 51        25 -1.11                  5.3
        COB   EP        Z    00 46 54.8      26
        MSZ    P        Z    00 47 38.3      30
        MNW    P        Z    00 47 46.3      32 -0.78                  5.7

         H  M  S        EPICENTRE    DEPTH  MAG
JAN 31  03 32 27.3     15.1S 173.1W   33KM  4.9  TONGA
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP        ZNE 03 32 54.8      2
               S       ZNE     33 13  JNE
        GNZ   EP        Z    03 37 47        23
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        KRP   P        ZNE 03 37 48.0       25 -1.21                    5.2
        MNG   P        Z   03 38 09         27

JAN 31  SBA   P?       ZNE 17 44 59.0
              S?       ZNE     48 04

JAN 31  COB   EP       Z   17 46 29
        MSZ   EP       Z   17 46 41             -0.87
        MJZ   EP       ZNE 17 46 42
        WEL   E        Z   17 47 03
              L        ZNE     52
        MNG   P        Z   17 47 11.8
              E        Z       32.3

         H  M  S       EPICENTRE    DEPTH  MAG
JAN 31  19 56 26.9     23.4S 180.0W 550KM  5.0  S. OF FIJI
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P        Z   19 08 05.0J      6
              S        Z      09 23
        AFI   P        ZNE 19 09 11         12
              S        ZNE    11 10
        GBZ   P        Z   19 09 20.9       13
        KRP   P        ZNE 19 09 39.1       15 -0.79
              E*SP     Z      12 02.6
              S        ZNE    18
              ESP      Z      27.8
        GNZ   P        ZNE 19 09 40.1       15  0.83                    7.2
              S        ZNE    12 13.2
              (SCS)    NE     20 31
        TUA   EP       Z   19 09 41         16
            E(S)       Z      12 14
        TRZ   P        Z   19 09 50.3       16
              S        Z      12 32.7
        MNG   P        Z   19 09 58         18 -0.06                    6.4
              I        Z      10 02.2
              S        Z      12 47.5
              (SP)     Z      13 01.0
              E        Z      05.8
              SCP      Z      16 54.8
        WEL   P        Z   19 10 08.0       18
              S        ZNE    13 08.1
        COB   EP       Z   19 10 10.0       19
              S        Z      13 11.0
        MJZ   EP       Z   19 10 38         22
        MSZ   EP       Z   19 10 52         23
        MNW   P        Z   19 11 03.0       24 -1.00                    5.5

         H  M  S       EPICENTRE    DEPTH  MAG
FEB 01  00 24 30.7     51.8N 177.7E  57KM  5.2  ALEUTIAN IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   00 37 22         89
              *PP      Z      41.0
        MNG   P        Z   00 37 33         92
              *PP      Z      53

         H  M  S       EPICENTRE    DEPTH  MAG
FEB 01  02 37 24.1     9.8S 160.1E   39KM  5.4  SOLOMON IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P        Z   02 43 12         28
              S        ZNE    48 03
              LQ       N      49 45
              LR       ZE     51 04
        KRP   PCP      Z   02 46 37         31
        WEL   P        Z   02 44 15         34

FEB 01  AFI   IP       ZNE 05 20 34.6U
              S        ZNE     56
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FEB 01  AFI   IP        Z   10 46 47.2
              S         ZNE     47 07

FEB 01  AFI   P         ZNE 12 10 14
              S         ZNE     55

FEB 01  KRP   P         Z   14 07 29
        MNG   P         Z   14 07 57

             H  M  S      EPICENTRE    DEPTH  MAG
FEB 01  15 15 02.2     22.6S 171.6E   90KM  5.0  LOYALTY IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P         ZN  15 18 46       16 =1.05                          5.1
        GNZ   EP        Z   15 18 58       17
        MNG   P         Z   15 19 14.7     18
        WEL   P         Z   15 19 21.8     19

FEB 01  GNZ   P         Z   16 06 57
        KRP   P         Z   16 06 57
        MNG   P         Z   16 07 25

FEB 02  GNZ   EP        ZNE 00 00 20
              S         ZNE     01 47
        KRP   P         ZE  00 00 22
              ES        NE      01 55
        MNG   P         Z   00 00 43
              S         Z       02 36

FEB 02  AFI   P         Z   15 13 13
              S         ZNE     14 08

             H  M  S      EPICENTRE    DEPTH  MAG
FEB 02  15 50 28.5     5.8S 152.8E   19KM  4.6  NEW BRITAIN
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   (*PP)     Z   15 58 10       38
        MNG   P         Z   15 58 06.4     40

FEB 02  AFI   P         Z   22 01 19
              S         ZNE     02 01

             H  M  S      EPICENTRE    DEPTH  MAG
FEB 02  22 44 01.2     30.4S 177.6W   33KM       KERMADEC IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P         Z   22 44 21.6       1
              S         Z       38
        GNZ   EP        ZNE 22 46 11         9
              S         ZNE     47 44
        CRZ   P         ZNE 22 46 17         9
              ES        E       48 01
        MNG   P         Z   22 46 39        12
              S         Z       48 43

FEB 02  RAO   P         Z   23 01 27
              S         Z           42

FEB 02  RAO   P         Z   23 38 50

             H  M  S      EPICENTRE    DEPTH  MAG
FEB 03  00 10 40.1     25.8N 125.0E   33KM  5.1  RYUKYU IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   P         Z   00 22 51       81

             H  M  S      EPICENTRE    DEPTH  MAG
FEB 03  02 29 21.9     40.7N  48.0E   39KM  5.1  CAUCASUS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   PKP       Z   02 48 49       141
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	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 03	08	36	16.6	4.6S	151.8E	168KM	5.4	NEW BRITAIN							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ		P	ZNE	08	42 59.3		35	0.29							6.9
	AFI		P	ZNE	08	43 12		37								
	KRP		IP	ZNE	08	43 34.7J		40								
			I	ZNE		42.4										
			SCP	Z		49 13										
	GNZ		IP	ZNE	08	43 49.0J		41	0.06							6.6
	MNG		IP	Z	08	43 50.6J		42	-0.39							6.2
	MNW		P	Z	08	44 02.4		43								
	RAR		P	ZNE	08	44 57.0		50	-1.15							5.6

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 03	14	26	42.9	4.8S	152.9E	69KM	4.8	NEW BRITAIN							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB		EP	Z	14	34 17		40								
	MNG		P	Z	14	34 21.8		41								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 04	05	47	49.4	32.2S	71.9W	23KM	5.3	CHILE							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG		P	Z	06	00 24.5		85								
	COB		P	Z	06	00 30		86								
	KRP		P	Z	06	00 32.0		86								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 04	07	02	57.6	17.8S	178.6W	611KM	4.7	FIJI REGION							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	ZNE	07	04 52		8								
			S	ZNE		06 21										
	CRZ		P	ZNE	07	06 38.2		18	-0.34							6.0
	GBZ		P	Z	07	06 43.0		19								
	KRP		P	ZNE	07	06 57.6		21								
	GNZ		P	Z	07	06 59.3		21								
	MNG		P	Z	07	07 17		23								
	COB		P	Z	07	07 29		24								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 04	10	30	49.2	24.1N	143.3E	33KM	4.9	VOLCANO IS							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	10	41 53		69								
	MNG		EP	Z	10	42 04		71								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 04	13	29	12.3	22.9S	68.8W	94KM	5.4	N. CHILE							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ		P	Z	13	42 17		92								
	MNG		P	Z	13	42 18.7		93								
	KRP		P	Z	13	42 25		95								
			EPP	Z		53										

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 05	00	15	51.2	55.4S	128.7W	33KM	5.9	PACIFIC-ANTARCTIC R.							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA		ES	ZNE	00	27 28		31								
			ELQ	ZNE		29 00										
			ELR	ZNE		30 24										
	GNZ		P	Z	00	23 18		39								
	KRP		P	Z	00	23 31		41								
	RAR		EP	Z	00	23 34		41								
			ELQ	N		33 07										
			ELR	ZNE		34 30										
	AFI		IP	Z	00	25 07.8J		53								
			S	ZNE		32 44										
			SS	NE		37 00										
			SSS	ZNE		42										

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                L       ZN      39 44

FEB 05  AFI     P       ZNE 11 57 39
                S       ZNE       57

FEB 05  AFI     P       ZNE 21 24 09
                S       ZNE       52

         H  M  S         EPICENTRE    DEPTH  MAG
FEB 06  11 55 09.0     17.8S 168.4E  135KM  5.2  NEW HEBRIDES
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CRZ     P       ZNE 11 59 00.4      17
        AFI     P       Z   11 59 27       19
                *PP     ZE          56
        KRP     P       ZNE 11 59 43.0J     21 -0.73                           5.6
        GNZ     P       ZNE 11 59 56.7      22
        COB     P       Z   12 00 08.1      24
        MNG     IP      Z   12 00 17.4J     24 -0.48                           5.9
                E       Z       04 13
                 PCP    Z           17.5
        WEL     P       ZNE 12 00 12.7      24 -0.53                           5.9
        MNW     P       Z   12 00 47.0      28
        RAR     EP      Z   12 01 07        30

         H  M  S         EPICENTRE    DEPTH  MAG
FEB 06  17 41 52.5     51.7N 174.3E   33KM  4.9  ALEUTIAN IS
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG     P       Z   17 53 34.3      92

         H  M  S         EPICENTRE    DEPTH  MAG
FEB 06  22 53 30.4     12.5N 141.9E   50KM  5.5  CAROLINE IS
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       Z   22 12 45       53
        KRP     P       Z   22 13 30.0     59
                E*PP    Z           37.5
        COB     P       Z   22 13 37.7     60
        MNG     EIP     Z   22 13 42.8     61 -1.22                           5.9
                I*PP    Z           51.8
        WEL     P       ZE  22 13 42       62
                *PP     ZE          51
        RAR     P       Z   22 13 17.6     66

         H  M  S         EPICENTRE    DEPTH  MAG
FEB 07  00 20 14.5     31.0S 178.4W   76KM  5.2  KERMADEC REGION
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO     P       Z   00 20 43.9       2
                S       Z       21 06
        GNZ     S       ZNE 00 23 21          8
        CRZ     P       ZNE 00 22 13          8
        KRP     EP      Z   00 22 19          9
                E       Z           31.7
        MNG     EP      Z   00 22 40         11

         H  M  S         EPICENTRE    DEPTH  MAG
FEB 07  04 18 31.0     24.0S 179.9E  550KM  4.2  S. OF FIJI
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO     EP      Z   04 20 06          5
        AFI     P       ZNE 04 21 13         13
                S       ZNE     23 25
        KRP     P       Z   04 21 38.8      14
                S       E       24 12
        MNG     P       Z   04 21 58         17
                S       Z       24 48
                SCP     Z       28 59
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          H  M  S      EPICENTRE    DEPTH  MAG
FEB 07  05 07 53.7   39.5N 143.4E   41KM  5.0  E. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG  EP       Z   05 20 34        85

          H  M  S      EPICENTRE    DEPTH  MAG
FEB 07  05 34 15.5   60.0S  27.1W   33KM  5.1  SOUTH SANDWICH IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB   P       Z   05 46 10        78
        MNG   P       Z   05 46 12.0      78
        KRP   P       ZN  05 46 25.5      81

FEB 07  AFI  (P)      ZNE 05 55 49

          H  M  S      EPICENTRE    DEPTH  MAG
FEB 07  06 48 44.1    9.4S 121.7E   34KM  5.3  W. OF TIMOR
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB   P       Z   06 58 15        55
        WEL   P       Z   06 58 25        56
        MNG   P       Z   06 58 26.6      57

          H  M  S      EPICENTRE    DEPTH  MAG
FEB 07  16 26 09.6   18.9S 169.2E  261KM       NEW HEBRIDES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CRZ   EP      Z   16 29 39        16
        MNG   P       Z   16 30 45.8      22

FEB 07  AFI   P       ZNE 19 05 29
              S       ZNE    06 14
              T       ZNE    08 50

          H  M  S      EPICENTRE    DEPTH  MAG
FEB 07  19 14 47.6    8.5N  83.9W   14KM  5.5  S. OF FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   EP      Z   19 27 57        90

FEB 07  AFI   P       Z   20 33 58
              S       ZNE    34 32

          H  M  S      EPICENTRE    DEPTH  MAG
FEB 08  03 37 52.4   19.3N 122.0E   50KM  5.7  PHILIPPINES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   03 49 37        76
        COB   P       Z   03 49 38.8      76
        MNG   P       Z   03 49 44        78
              *PP     Z       52

FEB 08  AFI   P       ZNE 05 34 54
              S       ZNE    36 06
              ET      ZNE    41 17

          H  M  S      EPICENTRE    DEPTH  MAG
FEB 08  14 12 21.7    6.4S 109.7E  245KM  5.0  JAVA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB   P       Z   14 22 41.8      65
        KRP   P       Z   14 22 53        67
        MNG   P       Z   14 22 52        68

          H  M  S      EPICENTRE    DEPTH  MAG
FEB 08  19 57 18.8   23.5N 143.2E   33KM  4.8  VOLCANO IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP      Z   20 08 21        68
        MNG   P       Z   20 08 30        71

FEB 09  AFI   IP      Z   13 34 07  J
              S       ZNE       41
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	H M S	EPICENTRE	DEPTH	MAG	
FEB 09	13 49 58.0	13.1S 166.6E	76KM	4.9	NEW HEBRIDES

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	P	Z	13 54 39		21								
MNG	EP	Z	13 55 45		25								

	H M S	EPICENTRE	DEPTH	MAG	
FEB 09	14 34 18.8	23.7S 178.7E	589KM	4.4	S. OF FIJI

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
CRZ	P	ZNE	14 36 58.7		12								
AFI	IP	ZNE	14 37 06.5U		13	-0.90							
	S	ZNE	39 23										
KRP	P	ZNE	14 37 22.0		14								
TUA	P	Z	14 37 30		15								
TRZ	P	Z	14 37 39		16								
MNG	P	Z	14 37 44		17								
COB	P	Z	14 37 57		18								
	ES	Z	40 54										
MNW	P	Z	14 38 49		24								

	H M S	EPICENTRE	DEPTH	MAG	
FEB 09	20 44 36.4	51.8S 74.0W	33KM	5.5	S. CHILE

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
SRA	EP	ZNE	20 53 00		45								
	ES	ZNE	59 50										
	ESS	ZNE	21 03 30										
	ELQ	ZNE	05 13										
MNW	P	Z	20 55 40		69								
MNG	EP	Z	20 55 47		70								
COB	EP	Z	20 55 54		71								
RAR	P	Z	20 55 51		71	-1.08							6.0
KRP	P	ZN	20 55 57		72								
AFI	P	Z	20 57 07		84								
	S	ZNE	21 07 48										
	SS	ZN	13 04										
	LQ	NE	20										
	LR	Z	23										

	H M S	EPICENTRE	DEPTH	MAG	
FEB 10	00 36 35.6	27.8S 176.3W	40KM	4.5	KERMADEC REGION

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	P	Z	00 37 09		2								
	ES	Z	37										
AFI	P	Z	00 40 03		14								
	S	ZNE	42 23										
	T	ZNE	53 12										
MNG	EP	Z	00 39 54		14								
RAR	EP	Z	00 40 15		15								
	E	ZE	42 56										
	ES	ZE	43 11										

	H M S	EPICENTRE	DEPTH	MAG	
FEB 10	03 05 09.2	20.8S 178.8W	575KM	4.9	FIJI REGION

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	P	Z	03 07 06.5		8								
	ES	Z	08 45										
AFI	P	ZNE	03 07 20		10								
	S	ZNE	09 02										
RAR	EP	ZE	03 08 42		18								
MNG	P	Z	03 09 04		20								
	SCP	Z	15 38.4										
COB	P	Z	03 09 15		21								

	H M S	EPICENTRE	DEPTH	MAG	
FEB 10	05 02 57.3	50.0N 78.9E	0KM	5.5	E. KAZAKHSTAN

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	PKP	Z	05 21 52		122								

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        COB   PKP      Z   05 21 53       122
        MNG   PKP      Z   05 21 56       123

         H  M   S       EPICENTRE    DEPTH   MAG
FEB 10  05 51 38.1    27.6S 176.3W    33KM   4.5  KERMADEC REGION
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P        Z   05 52 32         2
              S        Z      53 01
        AFI   P        Z   05 55 26        14
              S        ZNE    57 46
        MNG   EP       Z   05 55 18        15
        RAR   EP       ZE  05 55 38.5      16
              E?       E      58 22
              ES       ZE     25

FEB 10  AFI   P        Z   12 30 16
              S        ZNE    48
              T        ZNE    33 22

FEB 10  MNG   P?       Z   13 36 31

FEB 11  RAO   P        Z   21 07 01
              S        Z      21
        ONE   EP       E   21 08 56
        GNZ   ES       ZNE 21 10 20
        CRZ   EP       ZNE 21 09 00
        MNG   EP       Z   21 09 17
              S        Z      11 20
        RAR   EP       Z   21 10 45

         H  M   S       EPICENTRE    DEPTH   MAG
FEB 12  09 39 21.0    22.9S 172.3E    58KM   4.9  LOYALTY IS
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        GNZ   P        ZNE 09 43 10.6U     16 -0.31                       5.8
        MNG   P        Z   09 43 25        19
        COB   EP       Z   09 43 29        18
        MJZ   P        ZNE 09 44 01.8U     21 -0.92                       5.3

         H  M   S       EPICENTRE    DEPTH   MAG
FEB 12  11 02 56.5    17.6S 178.8W   580KM   3.9  FIJI REGION
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P        Z   11 04 49         8
              S        NE     06 28
        MNG   P        Z   11 07 22        23

         H  M   S       EPICENTRE    DEPTH   MAG
FEB 12  11 06 42.1    50.4S 130.2E    33KM   4.9  S. OF AUSTRALIA
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   E        Z   11 12 58        28
        MNG   P        Z   11 13 17        33

         H  M   S       EPICENTRE    DEPTH   MAG
FEB 12  11 55 00.5    19.1S 168.8E    53KM   5.0  NEW HEBRIDES
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   11 59 30.5      20
        GNZ   P        ZNE 11 59 44.0      21
        MNG   P        Z   11 59 56.6      22
        MJZ   P        ZNE 12 00 19        25

FEB 12  GNZ   P        Z   12 15 00
              I        Z      11
        MNG   P        Z   12 15 14
              I        Z      35
        MJZ   P        Z   12 15 51.0
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                H  M  S        EPICENTRE    DEPTH   MAG
FEB 12      18 51 57.0     15.3S 173.4W     5KM   5.9  TONGA
                                  H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            AFI   IP          ZNE 18 52 32  JNE   2
            RAR    P          ZNE 18 55 18.2      14 +0.68
                   I          Z           23.5
                   S          ZNE    57 43
                  ELQ         NE     58 10
                  ELR         Z          25
                  ET          ZNE 19 05
            RAO    P          Z   18 55 23         14
                  ES          Z      57 55
            CRZ    P          Z   18 57 03         23
                   I          ZNE        05.7D
            GNZ    P          ZNE 18 57 19         24
                   I          ZNE        20.6D
                  ES          ZNE 19 01 39
            WEL    P          ZNE 18 57 48.0       28
                  LQ          E   19 05 04
                  LR          ZN     06
            MJZ    P          ZNE 18 58 21.9D      32
            CBZ    P          Z   18 59 32.5       40
            SBA   EP          ZNE 19 02 31         63
                  ES          ZNE    11 06
                  EL          ZNE    21 00

FEB 12      AFI   IP          ZNE 19 05 17.9J
                   S          ZNE        37

                H  M  S        EPICENTRE    DEPTH   MAG
FEB 12      22 01 26.2     22.5S 171.5E  130KM       LOYALTY IS
                                  H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            MNG    P          Z   22 05 35.0       15
                  (*PP)       Z              50
            MJZ    P          Z   22 06 09         21
                  (*PP)       Z              32.2
                   E          Z              52

FEB 13      MNG    P          Z   05 41 23

FEB 13      AFI  E(S)         NE  05 42 28
                   L          ZNE    49 16

FEB 13      WEL    E          Z   05 47 52
            MNG   (P)         Z   05 48 15
            COB  E(P)         Z   05 48 27
            MJZ   (P)         Z   05 49 02

FEB 13      MNG    P          Z   08 18 59
            MSZ   (P)         Z   08 19 41

                H  M  S        EPICENTRE    DEPTH   MAG
FEB 13      08 42 29.1      5.8S 153.5E   23KM       NEW IRELAND
                                  H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            MNG    P          Z   08 50 03         40

FEB 13      MNG   (P)         Z   10 13 23
            COB  E(P)         Z   10 13 34

                H  M  S        EPICENTRE    DEPTH   MAG
FEB 13      13 01 52.8     19.2S 175.1E   73KM   5.1  S. OF FIJI
                                  H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            AFI    P          ZNE 13 04 55         14
                   S          ZNE    07 27
            GNZ    P          ZNE 13 06 16.9       20
            MNG    P          Z   13 06 31.0       21
            COB    P          Z   13 06 40         22
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        WEL   P       ZNE 13 06 42         22
              S       ZNE    10 43
              SS      E      11 46
              L       ZN     12
        RAR   EP      Z   13 06 54.5       24
              E       NE     10 24
              ES      ZNE    11 10
        MJZ   P       ZNE 13 07 09         25

FEB 13  MNG   P       Z   13 12 48.7
        COB   EP      Z   13 13 06

         H  M  S      EPICENTRE    DEPTH  MAG
FEB 13  16 37 06.1    5.9S 153.4E  38KM        NEW IRELAND
                                H  M  S  DIR DIS LGA/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP      Z   16 44 38         40

FEB 13  MJZ   P       Z   16 56 00
        MNG   P       Z   16 56 35

FEB 13  MNG   P?      Z   19 07 53

         H  M  S      EPICENTRE    DEPTH  MAG
FEB 13  21 05 56.6    55.7S  26.9W  33KM  5.5  SOUTH SANDWICH IS
                                H  M  S  DIR DIS LGA/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP      ZNE 21 14 22.5         46
        MJZ   P       ZNE 21 18 01           80
        COB   P       Z   21 18 13           82
        MNG   P       Z   21 18 14           82

         H  M  S      EPICENTRE    DEPTH  MAG
FEB 14  00 39 20.8    17.5N 122.3E  54KM  5.2  LUZON
                                H  M  S  DIR DIS LGA/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   EP      Z   00 51 04           75
        MNG E(P)      Z   00 51 14           76
        RAR   EP?     Z   00 51 07.8         85

         H  M  S      EPICENTRE    DEPTH  MAG
FEB 14  19 26 15.1    4.5S 144.8E  26KM  4.9  BISMARCK SEA
                                H  M  S  DIR DIS LGA/T  AZ TZ  AN TN  AE TE  MAG
        COB   P       Z   19 34 24           44
        MNG   P       Z   19 34 31.5         45
        MJZ   P       Z   19 34 33           45

         H  M  S      EPICENTRE    DEPTH  MAG
FEB 14  23 29 51.7    11.4S 166.3E 102KM  6.2  SANTA CRUZ IS
                                H  M  S  DIR DIS LGA/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP      ZNE 23 34 35           22
        RAO   P       Z   23 34 48           23
              I       Z      53.7U
        CRZ   P       ZNE 23 34 56           24
              I       ZNE    58.0U
        GNZ   P       ZNE 23 35 43.2         29
              ES      ZNE    40 29
        MNG   P       Z   23 35 52.5U        30
              S       Z      40 40.5
              ESCS    Z      46 16
        WEL   IP      Z   23 35 56  USE      31
              S       ZNE    40 51
              (SCP)   N      42 09
              SCS     ZNE    46 31
              (*8SCS) N      47 19
        MJZ   P       ZNE 23 36 15.0         33
              S       ZNE    41 25
        RAR   P       ZNE 23 36 28           34
              *PP     ZE     54
              I       Z      37 53
        ROX   IP      ZNE 23 36 23  USE      34
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		PP	Z		37	20						
		S	N		41	41						
	CBZ	P	Z	23	37	25.5		41	0.75			7.5
		E	Z		38	42						
	SBA	IP	ZNE	23	40	32	U	66	0.31			7.3
		EPCP	ZNE		41	10						
		EPP	ZNE		43	00						
		EPCS	ZNE		44	55						
		ES	ZNE		49	10						
		ESCS	ZNE		50	10						
		ESS	ZNE		53	05						
		ELQ	ZNE		57	00						
FEB 15	AFI	(P)	Z	00	08	33						

	H	M	S	EPICENTRE			DEPTH	MAG						
FEB 15	04	09	03.9	15.8S	173.7W		92KM	4.8	TONGA					
				H	M	S	DIR	DIS	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		IP	ZNE	04	09	44.5	U	3							
			S	ZNE		10	10									
	RAO		EP	Z	04	12	17		14							
			ES	Z		14	44									
	RAR		P	ZNE	04	12	23		14							
			ES	ZNE		14	52									
	GNZ		EP	Z	04	14	12		24							
	TNZ		P	Z	04	14	30		26							
	MNG		P	Z	04	14	32.5		26							
	FELT APIA															

	H	M	S	EPICENTRE			DEPTH	MAG						
FEB 15	04	10	44.1	10.8S	167.1E		113KM	4.9	SANTA CRUZ IS					
				H	M	S	DIR	DIS	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ		P	ZNE	04	15	55		24							
	TUA		P	Z	04	16	41.6		29							
	MNG		P	Z	04	16	51.9		31	-1.0I						5.7
	COB		P	Z	04	16	53		31							
	MJZ		P	ZNE	04	17	15		33	-1.22						5.6

FEB 15	AFI	IP	ZNE	07	06	52.2D								
		S	ZNE		07	12								

	H	M	S	EPICENTRE			DEPTH	MAG						
FEB 15	15	03	00.3	11.1S	166.2E		90KM	4.7	SANTA CRUZ IS					
				H	M	S	DIR	DIS	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG		P	Z	15	09	06		31							
	MJZ		EP	Z	15	09	29		33							

	H	M	S	EPICENTRE			DEPTH	MAG						
FEB 15	21	30	10.9	11.4S	166.4E		104KM	5.0	SANTA CRUZ IS					
				H	M	S	DIR	DIS	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	Z	21	34	54		21							
			S	NE		39	24									
	COB		P	Z	21	36	13		30							
	MNG		P	Z	21	36	12.0		30							
			ES	Z		41	05									
	MJZ		P	ZNE	21	36	35		33							
	MNW		P	Z	21	36	47		34							

	H	M	S	EPICENTRE			DEPTH	MAG						
FEB 16	03	49	30.8	11.3S	166.3E		100KM	5.2	SANTA CRUZ IS					
				H	M	S	DIR	DIS	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		IP	Z	03	54	35.4D		22							
			S	NE		39	12									
	CRZ		P	ZNE	03	54	56		24							
	GNZ		P	ZNE	03	55	43		29							
	COB		P	Z	03	55	53.0		30							
	MNG		P	Z	03	55	51.9U		30	-0.83						5.9
	MJZ		P	ZNE	03	56	14.7		33							

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            E       7       58 59

FEB 16  AFI  EP      Z    06 15 19
             S      ZNE     16 33

             H  M  S        EPICENTRE    DEPTH  MAG
FEB 16       08 59 26.2     0.6N 120.8E  116KM  5.5  SULAWESI
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            MNW   P        Z    09 09 34         62
            MJZ   P        ZNE  09 09 40.7       63
            COB   P        Z    09 09 40         63
            MNG   P        Z    09 09 50.6J      64 -1.03                    6.0
            GNZ   P        Z    09 09 57         65

FEB 16      MNW   P        Z    09 45 13
            MJZ   P        Z    09 45 44
            COB   P        Z    09 46 20
            MNG   P        Z    09 46 27

             H  M  S        EPICENTRE    DEPTH  MAG
FEB 16       15 29 26.9     6.2S 151.9E   45KM  5.2  NEW BRITAIN
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            AFI   EP       Z    15 36 31         37
            MNG   P        Z    15 37 00.5       40

FEB 16      GNZ   EP       Z    16 54 35
            MNG   P        Z    16 54 45.7
                  I        Z         55.3
            MJZ   EP       Z    16 55 16

             H  M  S        EPICENTRE    DEPTH  MAG
FEB 17       00 39 09.9     6.1S 151.8E   40KM  5.5  NEW BRITAIN
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            CRZ   P        ZNE  00 45 53         34
            AFI   P        Z    00 46 15         37 -1.07                    5.8
                  L        ZNE  01 00
            COB   EP       Z    00 46 38         40
            GNZ   P        ZNE  00 46 43         40
                  ePP      ZN        55.8
            MNG   P        Z    00 46 44.6       40
                  ePP      Z         56.6
            MJZ   P        ZNE  00 46 51         41
                  E-PP     ZNE       47 03
                  PCP      ZNE       48 51.0
            RAR   P        Z    00 47 56.5       49
                  E-PP     Z         48 08.5

             H  M  S        EPICENTRE    DEPTH  MAG
FEB 17       15 57 37.1     29.1N 139.7E 383KM  5.1  S. OF HONSHU
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            MNG   P        Z    16 08 49         77
                  E        Z       10 20
            MJZ   P        Z    16 08 56         78

FEB 17      AFI   P        ZNE  21 13 12
              S    S       ZNE       31

             H  M  S        EPICENTRE    DEPTH  MAG
FEB 18       13 04 36.4     23.7S 179.9W 490KM  4.9  S. OF FIJI
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
            RAO   P        Z    13 06 11          6
                  E        Z       07 24
                  S        Z       35
            AFI   P        Z    13 07 18         12
                  S        ZNE     09 27
            CRZ   P        ZN   13 07 25         13
            GNZ   P        Z    13 07 48         15
                  ES       ZNE     10 22
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	MNG	P	Z	13	08	06		17								
		ES	Z		10	59										
	WEL	P	Z	13	08	15		18								
		S	ZNE		11	15										

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 18	15	35	22.2	37.9S	78.0E	33KM	5.1	INDIAN OCEAN							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	EP	Z	15	46	13		66								
	MNG	P	Z	15	46	44		71								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 18	19	18	54.1	12.5S	166.5E	54KM	4.9	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	19	23	47		21								
	MNG	P	Z	19	24	51		29								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 19	07	59	21.3	11.2S	162.6E	60KM	5.3	SOLOMON IS							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	Z	08	04	42	J	25	=0.74							5.7
		S	NE		09	08										
		L	ZNE		10											
	MNG	P	Z	08	05	38.8		31								
	MJZ	P	Z	08	05	49		33								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 19	08	07	02.1	12.9N	121.3E	14KM	4.9	CENTRAL PHILIPPINES							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	P	ZNE	08	18	28.0		72	=1.13							6.0
	MNG	P	Z	08	18	33		73								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 19	14	39	05.3	25.3S	179.6E	488KM	4.6	S. OF FIJI							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P	Z	14	40	28.1		5								
	CRZ	P	ZNE	14	41	34		11								
	ONE	P	E	14	41	39		11								
		S	E		43	49										
	GBZ	P	Z	14	41	39.0		11								
	WTZ	P	Z	14	41	52		13								
		S	Z		44	11										
	GNZ	P	ZNE	14	41	56		13								
		S	ZNE		44	17										
	TUA	P	Z	14	41	58		14								
	AFI	IP	Z	14	42	01	U	14								
		S	ZNE		44	24										
	TRZ	P	Z	14	42	07		14								
	MNG	P	Z	14	42	19.0		15								
		P	Z		44	59										
		SCP	Z		49	38										
	WEL	P	ZNE	14	42	27.0		15								
		S	ZNE		45	14.2										
	KAI	EP	Z	14	42	49		18								
	GPZ	EP	N	14	42	56		19								
	MJZ	P	Z	14	43	04		20								
		SCP	Z		49	47										

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 19	17	13	24.4	5.1S	153.3E	70KM	4.4	NEW IRELAND							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	P	Z	17	20	58		41								

	H	M	S	EPICENTRE		DEPTH	MAG								
FEB 20	04	38	19.2	26.7S	178.4W	275KM	5.1	S. OF FIJI							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	IP	Z	04	39	08.60		3								
		S	Z			36										

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        GBZ    P       Z    04 40 53        11
        CRZ    P       ZNE  04 40 54        11
               ES      E         43 05
        WTZ    P       Z    04 41 02        12
        GNZ    P       Z    04 41 05.0      12
               S       ZNE       43 14.7
        TRZ    S       Z    04 43 45        13
        AFI    P       ZNE  04 41 21        14
               S       ZNE       43 45
               T       ZNE       53 11
        MNG    P       Z    04 41 31        15
               S       Z         44 13
               SCP     Z         49 37
        WEL    S       ZNE  04 44 31.5      16
        RAR    EP      E    04 42 10.5      18
               ES      E         45 34
               ET      E         58 02
        MJZ    P       ZNE  04 42 43        19

         H  M  S        EPICENTRE    DEPTH  MAG
FEB 20  13 28 35.1     14.6S 167.3E  137KM  4.9  NEW HEBRIDES
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P       Z    13 33 06        20
        MNG    P       Z    13 34 07        27
        MJZ    P       Z    13 34 28        29

         H  M  S        EPICENTRE    DEPTH  MAG
FEB 20  14 09 57.3     21.6S 169.5E   18KM  4.8  LOYALTY IS
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        GNZ    EP      Z    14 14 21        19
        AFI    EP      Z    14 14 26        19
               S       NE        18 24
               LR      ZE        19 28
        MNG    P       Z    14 14 27        20

FEB 20  AFI    P       Z    16 25 28
               S       ZNE       26 19

FEB 20  AFI    P       ZNE  16 27 04
               S       ZNE       28 22

FEB 21  AFI    EP      ZNE  00 22 48.4D
               S       ZNE       23 10

FEB 21  MNG    P       Z    01 46 39.7
               S       Z         49 22
        MJZ    EP      Z    01 47 26

FEB 21  AFI    P       ZNE  03 51 44
               S       NE        52 50

         H  M  S        EPICENTRE    DEPTH  MAG
FEB 21  03 54 08.1     25.9S 176.7W   55KM  3.9  S. OF FIJI
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    P       Z    03 55 01         4
        AFI    P       ZNE  03 57 09        13
               S       ZNE       59 22
               T       ZNE  04 10 20
        MNG    P       Z    03 57 39        15
               S       Z    04 00 25

         H  M  S        EPICENTRE    DEPTH  MAG
FEB 21  06 52 37.7     17.6S 167.9E   27KM  5.1  NEW HEBRIDES
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CRZ    P       ZNE  06 06 42        17
        AFI    P       ZE   06 07 11        20 +0.66                        5.5
               S       ZE        12 24
        WTZ    EP      Z    06 07 32        22
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	GNZ	P	ZNE	06	07	41			23												
		S	N			11	48														
	MNG	P	Z		06	07	49.9		24												
		E	Z				55.3J														
	MJZ	P	ZNE	06	08	19			26												
	H	M	S	EPICENTRE			DEPTH	MAG													
FEB 21	06	32	05.3	8.4S	158.8E		88KM	5.0	SOLOMON IS												
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG					
	MNG	P	Z	06	38	51.1			35												
	MJZ	EP	ZN	06	39	07			37												
	H	M	S	EPICENTRE			DEPTH	MAG													
FEB 21	09	42	39.1	24.5N	121.9E		71KM	5.1	TAIWAN												
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG					
	MJZ	P	ZNE	09	54	51.5			81												
	MNG	P	Z	09	54	50.7			82												
	GNZ	P	Z	09	54	53.0			82												
	H	M	S	EPICENTRE			DEPTH	MAG													
FEB 21	19	34	50.9	55.9N	158.3W		60KM	5.7	S.W. ALASKA												
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG					
	AFI	P	Z	19	46	01			70												
		S	N			56	12														
		LR	ZN	20	07																
	SBA	EPKP	ZNE	19	54	06			135												
		EPKS	ZNE			57	28														
		ESKP	ZNE			58	00														
	H	M	S	EPICENTRE			DEPTH	MAG													
FEB 21	23	42	14.2	11.4S	166.3E		107KM	4.9	SANTA CRUZ IS												
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG					
	AFI	P	Z	23	46	57			22	-0.68						5.6					
	CRZ	P	ZNE	23	47	18.2			24	-0.56						5.8					
	GNZ	P	ZNE	23	48	06.0			29												
	MNG	P	Z	23	48	14.9J			30												
	WEL	P	ZNE	23	48	18.9			31												
	MJZ	P	ZNE	23	48	36			33	-0.68						6.1					
	SBA	EP	ZNE	23	52	54			66												
	H	M	S	EPICENTRE			DEPTH	MAG													
FEB 22	01	14	47.5	36.4N	70.6E		212KM	5.3	HINDU KUSH												
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG					
	COB	EPKP	Z	01	33	13			121												
	MNG	PKP	Z	01	33	17			123												
	H	M	S	EPICENTRE			DEPTH	MAG													
FEB 22	09	07	56.8	10.2S	116.8E		33KM	5.5	FLORES REGION												
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG					
	MJZ	P	ZNE	09	17	41.5			57												
	COB	P	Z	09	17	48			58												
	MNG	P	Z	09	17	59			60												
	H	M	S	EPICENTRE			DEPTH	MAG													
FEB 22	12	45	27.0	6.0S	128.8E		321KM	4.9	BANDA SEA												
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG					
	COB	P	Z	12	54	10			52												
	MJZ	P	ZNE	12	54	11.2			53												
	MNG	P	Z	12	54	21.0			54												
	GNZ	P	Z	12	54	28			55												
FEB 22	RAO	P	Z	13	46	55.0															
		S	Z			47	03														
	FELT RAOUL ISLAND																				

	H	M	S	EPICENTRE		DEPTH	MAG	
FEB 22	18	43	42.0	10.4N	92.9E	33KM	5.4	ANDAMAN IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	P	Z	18	56	27.7			87						
	MJZ	P	ZNE	18	56	34.3			89		+1.29				6.1
	COB	P	Z	18	56	38			90						
	MNG	P	Z	18	56	47			91						

	H	M	S	EPICENTRE		DEPTH	MAG	
FEB 22	21	51	02.0	62.9S	166.6E	33KM	5.1	BALLENY IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	21	54	35			15						
		ES	ZNE		58	14									
	MNW	P	Z	21	55	01			17						
	MJZ	P	ZNE	21	55	23			19						
	MNG	P	Z	21	56	05			23						
	GNZ	P	Z	21	56	28			25						

	H	M	S	EPICENTRE		DEPTH	MAG	
FEB 23	00	13	20.6	5.0S	153.9E	74KM	4.6	NEW BRITAIN

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	00	20	38.7			38						
	MNG	P	Z	00	20	47			41						
FEB 23	AFI	IP	ZNE	00	14	40.1U									
		S	ZNE		15	02									
FEB 23	AFI	IP	ZNE	04	39	55.4D									
		S	ZNE		40	45									
	KRP	P	ZNE	04	43	26									
	GNZ	P	Z	04	43	26									
	MNG	P	Z	04	43	45									
	MJZ	EP	Z	04	44	27									
	MNW	P	Z	04	44	52.0									

	H	M	S	EPICENTRE		DEPTH	MAG	
FEB 23	07	41	21.2	3.8S	154.1E	438KM	4.8	N. OF SOLOMON IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	07	48	12			39						
		PCP	Z		50	10									
	GNZ	P	ZNE	07	48	24			41						
	MNG	P	Z	07	48	29.1D			41						
		PCP	Z		50	15									
	MJZ	P	Z	07	48	39			43						
	MNW	P	Z	07	48	45.0			43						

	H	M	S	EPICENTRE		DEPTH	MAG	
FEB 23	09	39	34.0	2.0N	126.6E	86KM	4.9	MOLUCCAS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	P	Z	09	49	32			60						
	KRP	P	Z	09	49	35			60						
	MJZ	P	ZN	09	49	35.7			60						
	MNG	P	Z	09	49	41.7			61						
	GNZ	P	Z	09	49	48			62						

	H	M	S	EPICENTRE		DEPTH	MAG	
FEB 23	11	52	58.4	14.7S	167.4E	106KM		NEW HEBRIDES

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	11	58	07			24						
	MNG	P	Z	11	58	28			27						

	H	M	S	EPICENTRE		DEPTH	MAG	
FEB 23	18	19	04.6	15.1S	173.0W	51KM	5.7	TONGA

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	Z	18	19	31.2	JNE	2							
	RAR	P	ZNE	18	22	16			14						
		ES	ZNE		24	44									

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        RAO   P        Z   18 22 24          15
        GNZ   P        Z   18 24 22          25
              S        NE      28 44
        KRP   P        ZNE 18 24 21          25
        MNG   P        Z   18 24 43.5        27
              S        Z       29 25
        MJZ   EP       ZNE 18 25 32          32
        MNW   P        Z   18 25 49          35
              (*PP)    Z       26 02
        SBA   ES       ZNE 18 38 03          64
              ELR      ZNE     48 23
        FELT APIA MM 2

FEB 23  AFI   IP       ZNE 19 16 38  U
              (S)      ZNE     17 00

         H  M  S       EPICENTRE    DEPTH   MAG
FEB 24   00 29 26.1     5.0S 145.1E   46KM   4.9  NEW GUINEA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        ZNE 00 37 26.1        43
        MNG   P        Z   00 37 38.0        43
        MJZ   P        ZNE 00 37 40          45
        GNZ   P        ZNE 00 37 40.1        45

         H  M  S       EPICENTRE    DEPTH   MAG
FEB 24   10 19 36.6    48.8N 155.7E  33KM   5.0  KURIL IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAR   EP?      Z   10 31 49.5        80
        KRP   P        Z   10 32 26          88

         H  M  S       EPICENTRE    DEPTH   MAG
FEB 24   11 26 27.4    12.8N 121.3E  59KM   4.5  CENTRAL PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P        Z   11 37 48.0        72 -1.05                    6.0

         H  M  S       EPICENTRE    DEPTH   MAG
FEB 24   11 32 00.2    18.8N 119.8E  37KM   4.9  PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P        Z   11 43 57        78

         H  M  S       EPICENTRE    DEPTH   MAG
FEB 24   15 51 11.9    22.4S 171.8E  33KM   5.5  LOYALTY IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        ORZ   P        ZNE 15 54 05.1        12
        GNZ   P        ZNE 15 55 12.8        17
        AFI   P        Z   15 55 16          18
              S        ZNE     58 40
        WEL   IP       ZNE 15 55 35.0JN      19
              S        ZNE     59 10
              L        ZN  16 00
        MJZ   IP       ZNE 15 56 02.1JNE     22 -0.28                    6.0
              ES       N   16 00 03
        MNW   P        Z   15 56 23          24
        RAR   E        E   15 57 19          26
              E        Z       23

         H  M  S       EPICENTRE    DEPTH   MAG
FEB 24   18 49 19.2    6.3S 128.2E  344KM  5.1  BANDA SEA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P        ZN  18 58 01.5        53
        KRP   P        Z   18 58 06.1        53

FEB 24  MNG   P        Z   20 18 11
        MJZ   P        Z   20 18 43
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          H  M  S       EPICENTRE    DEPTH  MAG
FEB 25    00 30 58.1    12.9N 121.3E  33KM  4.5  CENTRAL PHILIPPINES
                                 H  M  S   DIR DIS LG AZ  TZ  AN TN  AE TE  MAG
          MJZ  EP                N  00 42 23        72

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 25    01 17 12.5    60.6S  25.7W  33KM  5.0  SOUTH SANDWICH IS
                                 H  M  S   DIR DIS LG AZ  TZ  AN TN  AE TE  MAG
          SBA  ES                ZNE 01 31 20        42
               ESS               ZNE    34 00
               ELR               ZNE    37 00
          MNW   P                Z   01 28 44        73
          MJZ   P                NE  01 28 54.7      75
          COB   P                Z   01 29 07        78
          MNG   P                Z   01 29 08        78
          KRP   P                ZNE 01 29 23.7D     80
                *PP              Z      34 10
          RAR   EP               Z   01 30 14        90
                E*PP             Z      34

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 25    02 52 49.0    60.8S  26.5W  33KM  5.3  SOUTH SANDWICH IS
                                 H  M  S   DIR DIS LG AZ  TZ  AN TN  AE TE  MAG
          MNW   EP               Z   03 04 21        73
          COB   P                Z   03 04 43        77
          KRP   P                Z   03 04 56        80
                I                Z      05 00.0D

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 25    08 44 12.0    25.1S 179.7W 450KM  5.2  S. OF FIJI
                                 H  M  S   DIR DIS LG AZ  TZ  AN TN  AE TE  MAG
          RAO   IP               Z   08 45 32.2D      4
                S                Z      46 32
          CRZ   P                ZNE 08 46 47        11
                S                NE     48 57.0
          ONE   S                E   08 49 08        12
          GBZ   P                Z   08 46 51        12
          EGZ   P                Z   08 47 01        13
                S                Z      49 18
          WTZ   P                Z   08 47 03        13
                S                Z      49 29
          AFI   P                ZNE 08 47 02        13
                S                ZNE    49 19
          KRP   P                ZNE 08 47 07.6      13
                (*PP)            Z      48 40
                S                ZNE    49 34
                E                E      57
          GNZ   P                ZNE 08 47 07.0      14
                S                ZNE    49 36
                SCP              Z      54 52
                SCS              NE     58 33
          TRZ   P                Z   08 47 18.5      15
                ES               Z      49 57
                SCP              Z      54 54
          MNG   P                Z   08 47 30.0      16
                S                Z      50 16.7
                SCP              Z      54 55.3
                SCS              Z      58 29
          WEL   P                ZNE 08 47 42        17
                S                ZNE    50 32
                SCP              Z      54 57
          COB   P                Z   08 47 45        17
                S                Z      50 44
                SCP              Z      54 56
          RAR   P                ZNE 08 48 03        19
          KAI   P                X   08 48 03        19
          MJZ   P                NE  08 48 17        20
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        ROX    P        Z    08 48 33        22
        MNW    P        Z    08 48 40        23

FEB 25  AFI    P        ZNE  09 43 05
               S        ZNE       35

FEB 25  AFI   (P)       Z    22 34 14

         H  M  S        EPICENTRE    DEPTH  MAG
FEB 26  08 12 01.1      5.2S 152.7E   58KM  5.2  NEW BRITAIN
                           H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z    08 19 21        39
        MNG    P        Z    08 19 42        41

FEB 26  KRP    P        Z    13 57 30
        WTZ    P        Z    13 57 36
        AFI   E(P)      Z    13 57 37
        GNZ    P        ZN   13 57 41
               ES       ZNE  14 00 04
        MNG    P        Z    13 58 02
        COB    P        Z    13 58 15
        MJZ    P?       Z    13 58 58

FEB 26  MJZ   (P)       Z    14 57 56
        MNG    P        Z    14 58 42
        KRP    P        Z    14 58 55

         H  M  S        EPICENTRE    DEPTH  MAG
FEB 26  15 17 58.1      0.5N 126.0E   68KM  5.2  MOLUCCAS
                           H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ    P        Z    15 27 58        59
        KRP    P        Z    15 27 56        59
        MNG   EP        Z    15 28 07        61
        GNZ    P        Z    15 28 11        62

         H  M  S        EPICENTRE    DEPTH  MAG
FEB 26  20 47 04.4      19.8S 177.7W 556KM  4.2  FIJI REGION
                           H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   EP        Z    20 48 57        9
               S        ZNE     50 28
        MNG    P        Z    20 51 15        22

FEB 27  KRP    P        ZNE  02 35 26
        MJZ   EP        NE   02 35 35
        GNZ   EP        Z    02 35 44
        MNG    P        Z    02 35 54

FEB 27  AFI    P        ZNE  08 44 44
               S        ZNE     45 04

FEB 27  MNG    P        Z    11 28 32.0
               E        Z         39.8
        MJZ    P        Z    11 29 01
               E        Z         08

FEB 28  AFI    IP       ZNE  02 02 29  U
               S        ZNE       49

FEB 28  AFI    IP       ZNE  16 19 24.1U
               S        ZNE       45

         H  M  S        EPICENTRE    DEPTH  MAG
FEB 28  18 19 25.6      4.6S 105.2W   33KM  5.6  S. PACIFIC OCEAN
                           H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   ES        NE   18 39 20        66
              ELQ       N       46 40
              ELR       ZE      49 20
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FEB 28	KRP	EP	Z	18	39	27
	MNG	P	Z	18	39	49
FEB 28	AFI	(P)	Z	22	24	47
		S	ZNE		26	31
FEB 29	RAO	P	Z	00	54	03
	KRP	P	Z	00	55	37
	MNG	P	Z	00	55	58
		S	Z		58	49

	H	M	S	EPICENTRE				DEPTH	MAG								
FEB 29	09	22	59.8	33.3N		140.8E		56KM	6.3	S. OF HONSHU							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P		ZNE	09	33	38		65	0.94							8.0
		PP		Z		36	00										
		S		ZNE		42	22										
		SS		ZNE		46	11										
		SSS		ZNE		49	28										
		LR		ZNE		52	30										
	RAO	EP		Z	09	34	31		73								
	CRZ	P		ZNE	09	34	32.7		74								
	KRP	P		ZNE	09	34	54.6J		78								
		(*PP)		Z		35	13										
		E		Z		37	02										
		E		Z			49.8										
		PP		ZNE		38	17.6										
		S		ZNE		44	49										
		SCS		NE		45	01										
	RAR	EP?		Z	09	34	58		78								
		E		ZNE		35	00.5										
		ES		ZNE		44	55										
		ESS		ZNE		49	44										
		ESSS		N		53	32										
		ELQ		NE		55	00										
		EL		Z			50										
		ELR		ZNE		58	10										
	MNG	P		Z	09	35	09.6J		80								
		(*PP)		Z			22										
		S		Z		45	15										
		SCS		Z			35.7										
	WEL	P		ZNE	09	35	06.6		81		145	9					8.0
		(*PP)		Z			22.1										
		PP		Z		38	14										
		EPPP		Z		40	24										
		S		ZNE		45	09				61	13					
		SP		ZNE		46	14										
		PS		ZNE			30										
		SS		NE		50	32										
		ESSS		NE		53	28										
		LQ		ZNE		56											
		LR		ZNE	10	00					91	22	54	22	52	22	
	MJZ	P		NE	09	35	13		82								
		S		NE		45	25										
		SCS		NE			48										
	CBZ	P		Z	09	35	53		89								
		*PP		Z		36	06.5										
	SBA	EPP		ZNE	09	42	16		112								
		ESKS		ZNE		48	14										
		ES		ZNE		49	20										
		EPS		ZNE		52	00										
		ESS		ZNE		57	50										
		ELQ		ZNE	10	09	00										
		ELR		ZNE		11	00										

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          H  M   S        EPICENTRE    DEPTH   MAG
FEB 29    09 42 41.9     33.5N 140.9E   63KM   5.8  S. OF HONSHU
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
          AFI   EP       Z   09 52 26        65
          KRP    P       ZNE 09 54 35.9U     78  +0.50                      6.5
          MNG    P       Z   09 54 47.1U     80
          WEL    P       ZNE 09 54 48        81
                 (*PP)   Z       55 04
          MJZ    P       NE  09 54 50        82

FEB 29    KRP    P       Z   10 00 48.8

FEB 29    KRP    P       ZE  10 01 57.6
          MNG    P       Z   10 02 10
          AFI  E(P)      Z   10 02 33

FEB 29    KRP    P       Z   10 21 52

          H  M   S        EPICENTRE    DEPTH   MAG
FEB 29    11 07 57.3     33.5N 141.0E   51KM   5.0  E. OF HONSHU
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
          KRP    P       ZNE 11 19 53        78  +0.80                      6.3
          MNG    P       Z   11 20 04.8      80

          H  M   S        EPICENTRE    DEPTH   MAG
FEB 29    11 13 48.7     33.4N 140.9E   50KM   3.8  S. OF HONSHU
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
          KRP    P       Z   11 25 43        78

          H  M   S        EPICENTRE    DEPTH   MAG
FEB 29    11 27 28.7     33.6N 141.0E   51KM   4.0  E. OF HONSHU
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
          KRP    P       Z   11 39 24.5      78
          MNG    P       Z   11 39 36        80

FEB 29    AFI    P       Z   11 49 46
                S       ZNE     50 44
                T       ZNE     54 40
          RAR    P       ZNE 11 51 22.4

          H  M   S        EPICENTRE    DEPTH   MAG
FEB 29    11 51 30.6     33.4N 141.0E   47KM   3.9  S. OF HONSHU
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
          KRP    P       Z   12 03 25.7      78

          H  M   S        EPICENTRE    DEPTH   MAG
FEB 29    12 01 25.5     33.6N 140.9E   53KM   4.7  S. OF HONSHU
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
          KRP    P       Z   12 13 21        78
                 (*PP)   Z       33
          MNG    P       Z   12 13 31        80

FEB 29    KRP    P       Z   12 15 01.0

          H  M   S        EPICENTRE    DEPTH   MAG
FEB 29    12 21 19.7     33.6N 140.8E   73KM   4.2  S. OF HONSHU
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
          KRP    P       Z   12 33 13        78

FEB 29    KRP    P       Z   12 38 09

          H  M   S        EPICENTRE    DEPTH   MAG
FEB 29    12 48 23.6     33.5N 140.8E   66KM   4.5  S. OF HONSHU
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
          KRP    P       Z   13 00 18.1      78
          MNG    P       Z   13 00 30        80
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          H  M  S       EPICENTRE    DEPTH  MAG
FEB 29    12 56 36.4    33.5N 140.9E  50KM  4.8  S. OF HONSHU
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   13 08 31.5       79

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 29    13 00 45.0    18.2N 120.4E  34KM  5.1  LUZON
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   13 12 32       76
          MNG    P       Z   13 12 44       78

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 29    13 31 40.1    33.5N 140.9E  59KM  4.0  S. OF HONSHU
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   13 43 35.5       78
          MNG    P       Z   13 43 46        80

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 29    15 26 30.6    33.4N 141.1E  40KM  3.6  E. OF HONSHU
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   15 38 28       78

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 29    16 47 44.1    33.6N 141.1E  51KM  4.2  E. OF HONSHU
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   16 59 39.7       78
          MNG    P       Z   16 59 56        80

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 29    18 40 24.2    33.4N 140.9E  60KM  3.8  S. OF HONSHU
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   18 52 17.9       78

          H  M  S       EPICENTRE    DEPTH  MAG
FEB 29    21 00 14.6    33.5N 140.9E  65KM  4.1  S. OF HONSHU
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   21 12 09       78

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 01    09 04 41.7    18.9S 173.8W  33KM  5.8  TONGA
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI    P       ZNE 09 05 57        5
                 S       ZNE    07 04
          RAO    P       Z   09 07 17.8      11
                 S       Z      09 15
          RAR    P       Z   09 07 44.2      13
                 S       ZNE    10 00
                 T(MAX)  Z      21 59
          CRZ    P       ZNE 09 09 10       20 -0.14                        6.1
          GNZ    EP      ZNE 09 09 24       21  0.56                        6.8
                 ES      ZNE    13 04
          KRP    P       ZNE 09 09 25.6     21  0.50                        6.8
                 S       ZNE    13 16
          WEL    P       ZNE 09 09 57.9     24 -0.03                        6.4
                 ES      ZNE    14 19
          MJZ    EP      ZNE 09 10 34       28 -0.44                        6.1
                 I       ZNE       43.1
                 ES      ZNE    15 32
          MNG    P       Z   09 10 57       31 -0.31                        6.5
                 I       Z      11 06

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 01    09 25 36.5    33.5N 140.9E  62KM  5.0  S. OF HONSHU
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       ZNE 09 37 32.1     78 -1.30                        5.7
          MNG    EP      Z   09 37 43       80
          MJZ    EP      Z   09 37 50       82
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		H	M	S	EPICENTRE		DEPTH	MAG	
MAR 01		09	28	56.7	40.5N	125.2W	33KM		N. CALIFORNIA

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	09	40 04			69							
		S	ZNE		49 20										
		SS	E		53 32										
		SSS	NE		57 04										
		L	ZN	10	00										

		H	M	S	EPICENTRE		DEPTH	MAG	
MAR 01		13	09	15.8	33.6N	140.8E	39KM	4.5	S. OF HONSHU

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	13	21 11			78 -1.51							5.5
	MNG	EP	Z	13	21 22.3			80							
MAR 01	RAO	P	Z	20	34 54										
		S	Z		35 41										

		H	M	S	EPICENTRE		DEPTH	MAG	
MAR 01		21	39	44.1	24.8S	70.0W	61KM	5.5	N. CHILE

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	P	Z	21	52 44			91							
		(*PP)	Z		59										
	CNZ	P	Z	21	52 48			92							
		(*PP)	Z		53 03.5										
	KRP	P	ZNE	21	52 51.2			92 -1.15							6.4
		(*PP)	ZNE		53 06										

		H	M	S	EPICENTRE		DEPTH	MAG	
MAR 02		02	00	50.2	33.4N	141.0E	47KM	3.8	E. OF HONSHU

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	02	12 46			78							

		H	M	S	EPICENTRE		DEPTH	MAG	
MAR 02		02	47	41.0	13.3S	167.1E	214KM	4.8	NEW HEBRIDES

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ	P	Z	02	52 18.1			22 -0.39							6.1
	KRP	P	ZNE	02	52 53.5			26 -1.04							5.5
	CNZ	P	Z	02	53 04.3			27 -1.12							5.5
	MNG	P	Z	02	53 14.3			28 -1.01							5.6
		ES	Z		57 42										
	MJZ	P	ZNE	02	53 39			31							
MAR 02	GNZ	P	Z	03	40 58										
	KRP	P	Z	03	41 01										
		S	ZNE		42 09.6										
	MNG	EP	Z	03	41 22										
		ES	Z		43 11										

		H	M	S	EPICENTRE		DEPTH	MAG	
MAR 02		03	57	52.1	5.6S	147.2E	188KM	4.9	NEW GUINEA

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	04	05 20			41 -1.12							5.4
	KRP	P	ZNE	04	05 21.4			41 -0.92							5.6
	CNZ	P	ZNE	04	05 29.2J			42 -0.89							5.6
	MNG	P	Z	04	05 36.2			43 -1.05							5.5
	GNZ	P	ZNE	04	05 36.4			43 -0.52							6.0
	MJZ	P	ZNE	04	05 38			43							

		H	M	S	EPICENTRE		DEPTH	MAG	
MAR 02		04	06	25.9	33.5N	141.1E	39KM	4.2	E. OF HONSHU

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	04	18 23			78							

	H M S	EPICENTRE	DEPTH	MAG	
MAR 02	06 53 08.0	27.9N 139.8E	490KM	4.5	BONIN IS

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP?	Z 07 03 50			74							

MAR 02	AFI	IP	ZNE 09 04 15.5										
		S	ZNE 30										

	H M S	EPICENTRE	DEPTH	MAG	
MAR 02	09 13 01.7	33.4N 140.8E	44KM	4.4	E. OF HONSHU

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	ZNE 09 24 58.3			78 -1.04							6.0
	CNZ	P	Z 09 25 04			79 -1.20							5.9
	MNG	P	Z 09 25 09.5			80							
	MJZ	P	Z 09 25 17			82							

	H M S	EPICENTRE	DEPTH	MAG	
MAR 02	09 30 08.7	18.2S 168.1E	37KM	4.9	NEW HEBRIDES

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ	EP	Z 09 34 02			17							
	AFI	P	ZE 09 34 39			20 -1.11							5.1
	KRP	P	ZNE 09 34 47.5			21 -1.07							5.2
	CNZ	P	Z 09 35 03.6			23 -1.19							5.1
	GNZ	P	ZNE 09 35 03.7			22 -0.45							5.9
	MNG	P	Z 09 35 13.0			23 -1.00							5.4
	WEL	P	Z 09 35 17.3			24							
	MJZ	P	ZNE 09 35 38.5			26							

	H M S	EPICENTRE	DEPTH	MAG	
MAR 02	09 59 16.9	33.5N 141.0E	42KM	4.4	E. OF HONSHU

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z 10 11 14			78 -1.22							5.9
	MNG	EP	Z 10 11 25.5			80							

	H M S	EPICENTRE	DEPTH	MAG	
MAR 02	10 08 45.8	15.9S 179.4W	53KM	4.8	FIJI REGION

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE 10 13 40			22							
	MNG	EP	Z 10 14 05			25							
	MJZ	P	ZN 10 14 43			29							
	MNW	P	Z 10 15 04			32							

MAR 02	KRP	EP	Z 10 34 56										

	H M S	EPICENTRE	DEPTH	MAG	
MAR 02	11 09 38.3	33.7N 140.9E	62KM	4.0	S. OF HONSHU

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z 11 21 32			78							

MAR 02	KRP	EP	Z 11 22 41										

	H M S	EPICENTRE	DEPTH	MAG	
MAR 02	12 48 48.5	72.4N 3.3E	33KM	4.5	W. OF NORWAY

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	PKP	Z 13 08 40			151							

MAR 02	RAO	S	Z 13 36 41.5										

MAR 02	MNG	EP	Z 14 29 03										
	MJZ	EP	Z 14 29 36.5										

	H M S	EPICENTRE	DEPTH	MAG	
MAR 02	14 46 49.3	33.5N 140.7E	65KM	4.3	S. OF HONSHU

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z 14 38 41.3			78							

	H M S	EPICENTRE	DEPTH	MAG								
MAR 02	16 45 33.9	5.1S 145.1E	56KM	5.1	NEW GUINEA							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	ZNE 16 53 30		43								
	CNZ EP	Z 16 53 40		44	-1.15							5.7
	MNG P	Z 16 53 44		45	-1.12							5.7
	MJZ P	ZNE 16 53 44		45								
MAR 02	RAO P	Z 16 57 43										
	S	Z 58 42										
	AFI P	ZNE 16 59 00										
	S	ZNE 17 00 54										
	KRP P	Z 17 00 00.5										
	GNZ S	ZNE 17 02 28										
	MNG EP	Z 17 00 20										
	ES	Z 03 22										
	MJZ EP	Z 17 01 17										
	ES	ZN 05 13										
	MNW P	Z 17 01 42										
	H M S	EPICENTRE	DEPTH	MAG								
MAR 02	18 37 04.9	10.8S 165.5E	15KM	4.9	SANTA CRUZ IS							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 18 43 02		28								
	CNZ P	Z 18 43 13		30	-1.49							5.2
	GNZ P	Z 18 43 14		30	-0.90							5.8
	MNG P	Z 18 43 23		31								
	MJZ P	Z 18 43 47		33								
	H M S	EPICENTRE	DEPTH	MAG								
MAR 02	20 10 08.2	33.4N 140.8E	57KM	5.7	S. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z 20 20 46		65								
	L	ZN 40										
	RAO EP?	Z 20 21 33		74								
	CRZ P	Z 20 21 39.6		74								
	KRP IP	ZNE 20 22 03.3	US	78	-0.22							6.8
	*PP	Z 19										
	CNZ IP	Z 20 22 08.2	D	79	-0.51							6.5
	MNG P	Z 20 22 13.7		80	-0.71							6.4
	WEL P	Z 20 22 15.5		81	-0.63							6.4
	MJZ IP	ZNE 20 22 21.3	U	82	-0.81							6.3
	H M S	EPICENTRE	DEPTH	MAG								
MAR 02	21 12 47.2	33.5N 140.8E	67KM	4.4	S. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 21 24 40.7		78								
	H M S	EPICENTRE	DEPTH	MAG								
MAR 03	10 55 32.6	33.4N 141.0E	57KM	3.7	E. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 11 07 28		78								
	H M S	EPICENTRE	DEPTH	MAG								
MAR 03	11 42 14.3	33.4N 141.0E	60KM	4.4	E. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 11 54 11		78								
	H M S	EPICENTRE	DEPTH	MAG								
MAR 03	14 19 43.5	33.5N 140.9E	60KM	4.1	S. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 14 31 38		78								
	H M S	EPICENTRE	DEPTH	MAG								
MAR 03	15 23 04.1	33.4N 141.0E	45KM	4.0	E. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 15 35 00		78								

		H	M	S	EPICENTRE	DEPTH	MAG	
MAR 03		15	12	39,0	33,6N 141,0E	57KM	4,3	E. OF HONSHU

		H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP E(PP)	7	16	24	47		78							

		H	M	S	EPICENTRE	DEPTH	MAG	
MAR 03		21	35	20,3	11,9S 167,4E	275KM	4,5	SANTA CRUZ IS

		H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG P	7	21	40	58		29							

		H	M	S	EPICENTRE	DEPTH	MAG	
MAR 04		02	58	28,0	21,8S 179,5W	570KM	5,4	FIJI REGION

		H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO IP	7	03	00	23,0D		8							
	S	7		02	00									
	AFI P	7NE	03	00	54		11							
	S	7NE		02	49									
	CRZ P	7NE	03	01	34,5		14							
	ES	7NE		04	07									
	WTZ P	7	03	01	49		16							
	S	7		04	32									
	KRP IP	7NE	03	01	54,2J		17							
	ES	7NE		04	40									
	ESCP	7		08	45									
	GNZ P	7NE	03	01	54		17							
	S	7NE		04	38									
	SCP	7NE		08	38									
	SCS	7NE		12	27,5									
	TUA P	7	03	01	56,5		17							
	S	7		04	44									
	CNZ P	7	03	02	04		18							
	TRZ P	7	03	02	04,3		18							
	ES	7		04	52,5									
	TNZ EP	7	03	02	08,5		18							
	RAR IP	7	03	02	09,5J		18							
	MNG P	7	03	02	14		19							
	S	7		05	14									
	ISCP	7		08	30,6J									
	SCS	7		12	27,5									
	E	7			37									
	WEL P	7NE	03	02	22		20							
	ES	7NE		05	26									
	SCS	7NE		12	37									
	MNW P	7	03	03	18,8		24							

MAR 04	RAO P	7	03	12	02,9									
	S	7			24									

		H	M	S	EPICENTRE	DEPTH	MAG	
MAR 04		04	18	44,0	14,7S 166,6E	32KM	5,0	NEW HEBRIDES

		H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ P	7NE	04	23	25		20							
	AFI P	7E	04	23	27		21							
	S	7NE		28	54									
	KRP P	7NE	04	24	02		24							
	CNZ P	7	04	24	13,5		26							
	MNG P	7	04	24	25		27							
	ES	7		29	07									
	MNW P	7	04	25	05		31							
	RAR P	7	04	25	16		33							
	L	7E		34										

MAR 04	AFI P	7NE	06	28	04									
	(S)	7NE			48									

MAR 04	RAO P	7	09	44	41									
	S	7		45	15									

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          H  M  S        EPICENTRE    DEPTH  MAG
MAR 04   19 12 24.6    71.3N   5.3W    33KM  5.0  N. OF ICELAND
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   PKP     Z   19 32 09       147
         MJZ   PKP     Z   19 32 17       153

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 05   01 38 22.9    33.5N 140.9E    59KM  4.1  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   EP      Z   01 50 17.5     78

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 05   03 03 37.0    51.3N 170.9W    33KM  5.2  ALEUTIAN IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   EP      Z   03 16 45       90

MAR 05   AFI   EP      Z   08 40 26
               S       ZNE    41 09
               ET      ZNE    43 44

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 05   09 32 36.5    33.4N 140.9E    56KM  3.7  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   P       Z   09 44 31       78

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 05   10 06 49.9    33.7N 141.2E    42KM  4.8  E. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   EP      Z   10 18 31       78

MAR 05   RAO   P       Z   10 42 49
               S       Z       43 13

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 05   11 36 15.4     7.4S 128.0E    95KM        BANDA SEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MJZ   P       Z   11 45 16       52
         KRP   P       Z   11 45 21       53
         MNG   P       Z   11 45 27       54

MAR 05   KRP   P       Z   12 40 50.5

MAR 05   RAO   IP      Z   23 02 15.9
               S       Z       36

MAR 06   AFI   P       ZNE 00 28 47
               S       ZNE    30 32

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 06   02 42 21.1    16.7S 167.5E    32KM  4.9  NEW HEBRIDES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         CRZ   P       ZNE 02 46 36       18
         KRP   IP      ZNE 02 47 19.10    22 -0.18                        6.1
         GNZ   P       ZNE 02 47 31.5     24 -0.26                        6.1
         MNG   P       Z   02 47 42       25 -0.13                        6.3
               I       Z       44.3
         WEL   P       ZNE 02 47 47.6     25 -0.60                        5.9
         MJZ   P       ZNE 02 48 05.3     27

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 06   06 34 17.2    11.0S 162.4E    62KM  5.2  SOLOMON IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         AFI   EP      Z   06 39 42       25
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          H  M  S       EPICENTRE    DEPTH  MAG
MAR 06  17 10 46.0    22.4S 171.5E   27KM        LOYALTY IS
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P      Z   17 14 35.3      16 -1.04                        5.1
          AFI    P      Z   17 14 57        18
          MNG    P      Z   17 15 03.1      18
          MJZ    P      ZNE 17 15 37        22 -1.09                        5.2

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 06  17 37 59.5    22.4S 171.3E   21KM   5.1  LOYALTY IS
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   EP     Z   17 41 44        16
          GNZ    P     ZNE 17 41 59.5      17 -0.66                        5.5
          AFI    P     Z   17 42 10        18
                 S     NE      45 52
          MNG   EP     Z   17 42 13        19
          MJZ    P     ZNE 17 42 48        22 -1.23                        5.1

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 06  17 39 05.9    22.6S 171.4E   33KM   4.9  LOYALTY IS
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P      ZNE 17 42 51.7      16 -0.92                        5.2
          GNZ    P      ZNE 17 43 04.5      17 -0.47                        5.7
          AFI    P      ZNE 17 43 19        18
                 S      NE      46 48
          MNG    P      Z   17 43 19        18 -0.88                        5.3
          WEL    P      Z   17 43 29        19
          MJZ    P      ZNE 17 43 54.3      21 -0.72                        5.6

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 06  18 50 18.2    50.2N 148.8E 592KM   5.4  SEA OF OKHOTSK
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P      Z   19 02 20.9      91 -1.15                        5.9
                 *PP    Z       04 30
          MNG   EP      Z   19 02 32        93
                 *PP    Z       04 48
          WEL    *PP    Z   19 04 48        94
          MJZ   E*PP    Z   19 04 52        96

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 06  19 02 39.3    2.0S  99.8E   33KM   5.1  S. SUMATRA
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          MNG    P      Z   19 14 36        78

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 06  21 26 45.9    9.6S 152.2E   33KM        D ENTRECASTEAUX IS
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          MNG    P      Z   21 34 03        37

MAR 06  RAO   (P)      Z   21 50 45.1

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 07  03 10 32.8    33.5N 140.9E   62KM   4.1  S. OF HONSHU
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P      Z   03 22 27.4      78 -1.10                        5.9

MAR 07  RAO    P      Z   03 39 47.3
                S      Z       40 33

MAR 07  AFI    P      ZNE 04 41 44
              (S)     ZNE     43 55

          H  M  S       EPICENTRE    DEPTH  MAG
MAR 07  06 19 50.0    22.3N 122.2E   33KM   5.0  TAIWAN
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          MJZ    P      Z   06 31 06        79 -1.18                        6.0
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	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 07	07	45	21.9	28.2S 178.3W	192KM	5.2	KERMADEC REGION									
					H	M	S	DIR	DIS	LG	AZT	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		IP	Z	07	45	51.3		1									
			(SCP)	Z		57	16											
	GBZ		IP	Z	07	47	35.7J		10									
	ECZ		EP	Z	07	47	38		10									
			E(T)	Z	08	01	30											
	ONE		IP	E	07	47	40.5N		10									
			S	E		49	35											
	CRZ		P	ZNE	07	47	44.6J		10									
			E	ZNE		48	52											
			S	ZNE		49	51											
	AUC		IP	Z	07	47	45.7J		10									
	WTZ		EP	Z	07	47	40		11									
			E(T)	Z	08	02	38											
	GNZ		EP	ZNE	07	47	43		11									
			S	ZNE		49	43											
			SCS	ZNE	08	00	27											
	KRP		P	ZNE	07	47	50		11									
			*PP	ZNE		48	20											
			S	ZNE		49	55											
			SCS	NE	08	00	22											
	TUA		EP	Z	07	47	50		11									
			E(S)	Z		49	52											
	TRZ		EP	Z	07	47	58		12									
			ESCS	Z	08	00	26											
	TNZ		P	Z	07	48	12		13									
			(*SP)	Z			40.5											
			S	Z		50	38											
	MNG		P	Z	07	48	14.5		13									
			I	Z			18.4											
			SCP	Z		56	53											
			E	Z		57	48											
			E	Z		58	30											
			SCS	Z	08	00	26											
			E	Z			44											
	WEL		EP	ZNE	07	48	24		14									
			I	ZNE			30.0											
			S	ZNE		50	57.0											
			E	Z		52	40.3											
			E	Z		55	40											
			SCP	ZNE		56	55											
			PCS	NE		57	14											
			SCS	ZNE	08	00	31											
			E*SSCS	ZNE		01	50											
	COB		EP	Z	07	48	35		15									
			ES	Z		51	13											
	AFI		P	ZNE	07	48	45		15									
			S	ZNE		51	36											
	CIZ		IP	ZNE	07	48	57.6J		16									
			S	ZNE		51	42											
	KAI		S	X	07	51	50		17									
			ESCS	X	08	00	34											
	MJZ		E	ZNE	07	48	56		18									
			P	ZNE		49	16											
			*PP	ZNE			55											
			S	ZNE		52	26											
			SCP	ZNE		51	01.5											
			SCS	ZNE	08	00	41											
	RAR		P	Z	07	49	21.4J		18									
			S	ZNE		52	34											
	OHZ		EP	Z	07	49	27		19									
	ROX		EP	Z	07	49	31		20	-0.43								6.0
	MNW		EP	Z	07	49	46.2		21									
			*PP	Z		50	27.5											
	CBZ		P	Z	07	50	39		26									

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          S       7      51 19
     SRA  IP      ZNE 07 54 01.50    50  0.27                          6.9
          E*PP    ZNE        40
          E*SP    ZNE     55 13
          EPP     ZNE     56 00
          ES      ZNE 08  01 00
          E*SS    ZNE     02 05
          ESS     ZNE     04 53
          ESSS    ZNE     06 16
     FELT RAOUL ISLAND MM V

MAR 07    RAO  IP      Z   08 28 30.00
               (S)     Z      58

MAR 07    RAO  IP      Z   10 05 09.80
               (S)     Z      42
          WTZ  EP      Z   10 07 00
               ES      Z      08 54
          GNZ   S      ZNE 10 09 01
          MNG  EP      Z   10 07 37
               ES      Z      09 57

           H  M  S       EPICENTRE    DEPTH  MAG
MAR 07    11 02 17.0    33.5N 141.1E   41KM  4.2  E. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P      Z   11 14 14        78 +1.04                      6.0
          COB   P      Z   11 14 22.6      80
          MJZ   P      Z   11 14 32.5      82

           H  M  S       EPICENTRE    DEPTH  MAG
MAR 07    14 01 43.0     6.2S 154.8E   57KM        SOLOMON IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P      Z   14 08 47        37 +1.04                      5.8
          GNZ   P      Z   14 09 01        39 -0.57                      6.3
          MNG   P      Z   14 09 03.7      39

           H  M  S       EPICENTRE    DEPTH  MAG
MAR 08    00 18 58.1    33.5N 140.9E   65KM  4.2  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  EP      Z   00 30 53        78

           H  M  S       EPICENTRE    DEPTH  MAG
MAR 08    01 24 34.9    32.7S 179.0W   55KM  4.4  S. OF KERMADEC IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   P      Z   01 25 25         4
                S      Z      26 08
          KRP   P      ZNE 01 26 15.3       7
          CRZ   P      ZNE 01 26 20.5       7
          MNG   P      Z   01 26 39         9
                S      Z      28 20
          MJZ  EP      ZNE 01 27 46        14
                S      ZNE    30 10
          RAR  EP      Z   01 29 18        21

           H  M  S       EPICENTRE    DEPTH  MAG
MAR 08    03 31 12.5     6.4S 130.1E  117KM  5.7  BANDA SEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          COB   P      Z   03 40 05        51
          MJZ   P      ZNE 03 40 07.3      51 +1.09                      5.9
          MNG   P      Z   03 40 16.2      53
          AFI  EP      Z   03 40 52        58

           H  M  S       EPICENTRE    DEPTH  MAG
MAR 08    03 45 25.2     3.7S 131.4E   33KM  5.9  WEST IRIAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNG  EP      Z   03 54 37.5      52
          COB   P      Z   03 54 37        53
          KRP   P      ZNE 03 54 39.4      53 -0.95                      6.1
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	MJZ	P	ZNE	03	54	39.5		53	-0.99								6.1
	MNG	P	Z	03	54	47		54	-1.01								6.1
	AFI	P	ZNE	03	55	13		57									
		S	ZNE	04	03	00											
		SS	ZNE		07	09											
		LQ	N		10												
		LR	Z		12												

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 08	06	36	27.2	22.5S		171.5E	30KM	5.0	LOYALTY IS								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ	P		ZNE	06	39	18.6		12								
	KRP	P		ZNE	06	40	09		14	-0.38							5.7
	GNZ	IP		ZNE	06	40	27.30		17	0.06							6.2
	AFI	P		ZNE	06	40	32		18								
		S		NE		44	00										
	MNG	IP		Z	06	40	41.50		18								
	WEL	P		ZNE	06	40	49.1		19	-0.30							5.9
		E		Z		43	15										
	MJZ	P		ZNE	06	41	15.5		21	-0.27							6.0
	MNW	EP		Z	06	41	37		23								
MAR 08	AFI	EP		Z	08	36	18										
		S		ZNE		37	04										

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 08	11	12	10.6	33.5N		140.7E	58KM	4.4	S. OF HONSHU								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	11	24	09		78								
MAR 08	AFI	P		ZNE	13	30	23										
		S		ZNE		32	20										
	WTZ	P		Z	13	31	48										
	KRP	P		Z	13	31	53.3										
	GNZ	P		Z	13	31	55										
	MNG	EP		Z	13	32	14										
	COB	P		Z	13	32	27										
	MJZ	EP		Z	13	33	00										
MAR 08	RAO	IP		Z	16	09	53.10										
		(S)		Z		10	22.5										
	WTZ	EP		Z	16	11	41										
		(S)		Z		13	38										
	GNZ	S		ZNE	16	13	44										
	MNG	EP		Z	16	12	16										
		S		Z		14	39.5										
	WEL	ES		ZNE	16	14	57										
	AFI	P		ZNE	16	12	49										
		(S)		ZNE		15	29										
MAR 08	AFI	P		ZNE	17	35	56										
		S		ZNE		36	39										
		T		ZNE		39	40										
MAR 08	AFI	P		ZNE	18	06	27										
		S		ZNE		07	10										
MAR 08	AFI	P		Z	18	16	49										
		S		ZNE		17	52										

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 08	18	33	18.2	7.6S		117.3E	157KM	5.0	E. JAVA								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	EmPP		Z	18	43	57		59								

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 08	19	44	12.7	33.3N 140.6E	57KM	4.9	S. OF HONSHU									
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	19	56 06.5		78	-1.07							5.9
	COB		P	Z	19	56 15		80								
	MJZ		P	Z	19	56 25.3		82								

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 09	04	49	26.8	14.9S 176.4W	143KM	4.9	FIJI REGION									
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	ZNE	04	50 10		5								
			S	ZNE		59										
	RAR		EP	Z	04	53 13		17								
			S	ZNE		56 16										
	KRP		P	ZN	04	54 33		24								
	COB		EP	Z	04	55 06		28								
	MSZ		EP	Z	04	55 47		33								

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 09	09	18	02.2	7.5S 128.0E	149KM	5.2	BANDA SEA									
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		P	Z	09	26 48.1		51	-1.21							5.6
			PCP	Z		28 02.7										
	MJZ		P	ZN	09	26 56.6		52	-1.29							5.6
MAR 09	RAO		EP	Z	13	21 27										
			S	Z		52										
MAR 09	AFI		P	Z	14	18 23										
			(S)	ZNE		20 09										

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 09	18	04	37.2	56.1S 27.5W	33KM	5.3	SOUTH SANDWICH IS									
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		P	Z	18	16 37		79	-1.10							6.0

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 10	02	22	40.3	33.4N 140.8E	69KM	4.6	S. OF HONSHU									
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	02	34 34.5		78	-1.00							6.0
	COB		P	Z	02	34 43.5		80								
	MNG		P	Z	02	34 46		80								
	MSZ		P	Z	02	34 52.4		82	-1.32							5.7

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 10	02	34	06.6	22.3S 171.5E	9KM	4.3	LOYALTY IS									
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	ZNE	02	37 56		16	-0.51							5.6
	GNZ		P	ZNE	02	38 10.2		17	-0.31							5.8
	AFI		P	Z	02	38 17		18								
			ES	NE		41 40										
	MNG		P	Z	02	38 25.0		19	-1.01							5.1
	WEL		P	Z	02	38 31		19	-0.56							5.6
	MJZ		P	ZNE	02	38 59.4		22	-0.70							5.6

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 10	02	37	37.6	8.1S 156.3E	33KM	4.8	SOLOMON IS									
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		E(P)	Z	03	04 52		34								

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 10	04	56	57.4	49.8N 78.2E	0KM	5.5	E. KAZAKHISTAN									
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		PKP	Z	05	15 54		122								
	MJZ		PKP	Z	05	15 57.5		123								

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          H  M   S        EPICENTRE    DEPTH  MAG
MAR 10    09 09 17.9    31.5S 178.2W    64KM  4.2  KERMADEC IS
                            H  M   S   DIR DIS LG  A/T   AZ TZ  AN TN  AE TE  MAG
          RAO   P       Z     09 09 54.5       2
                ES      Z        10 31
          WTZ   P       Z     09 10 55         8
                S       Z        12 15
          GNZ   EP      ZNE   09 10 57         8
                S       ZNE      12 19
          CRZ   P       ZNE   09 11 16         8
          WEL   ES      ZNE   09 13 28        11
          MJZ   EP      Z     09 12 58        15
          AFI   EP      Z     09 13 31        18

MAR 10    RAR   S       NE    23 20 08

          H  M   S        EPICENTRE    DEPTH  MAG
MAR 11    03 18 35.2     9.0S 110.5E    62KM  5.3  S. OF JAVA
                            H  M   S   DIR DIS LG  A/T   AZ TZ  AN TN  AE TE  MAG
          MJZ   P       ZNE   03 28 52        62
                (*PP)   ZNE      29 15
          COB   EP      Z     03 29 00        63
                E       Z        13
          AFI   EP      Z     03 30 21        76 -1.06                        5.9

          H  M   S        EPICENTRE    DEPTH  MAG
MAR 11    03 50 45.9     13.4N  90.0W    85KM  5.1  GUATEMALA
                            H  M   S   DIR DIS LG  A/T   AZ TZ  AN TN  AE TE  MAG
          RAR   S       NE    04 12 16        77
                L       ZNE      25
          AFI   ES      ZNE   04 14 00        85
                ESS     ZE       19 20
                ELQ     ZNE      30

MAR 11    RAO   IP      Z     08 45 20.40
                (S)     Z        37

          H  M   S        EPICENTRE    DEPTH  MAG
MAR 11    09 15 50.1     33.4N 140.7E    68KM  4.6  S. OF HONSHU
                            H  M   S   DIR DIS LG  A/T   AZ TZ  AN TN  AE TE  MAG
          KRP   P       Z     09 27 45        78 -1.05                        5.9

          H  M   S        EPICENTRE    DEPTH  MAG
MAR 11    15 54 58.7     15.2S 174.9W   252KM  4.6  TONGA
                            H  M   S   DIR DIS LG  A/T   AZ TZ  AN TN  AE TE  MAG
          AFI   IP      ZNE   15 55 55.00      3
                S       ZNE      56 36
          WTZ   P       Z     15 59 56  J      24
          GNZ   P       ZNE   15 59 56          24 -0.64                        5.9
          COB   EP      Z     16 00 27         28
          MSZ   P       Z     16 01 10         33 -1.17                        5.4
          MNW   P       Z     16 01 19.2J      34 -0.86                        5.7

          H  M   S        EPICENTRE    DEPTH  MAG
MAR 12    00 37 31.8     9.1S 106.0E    50KM  5.0  S. OF JAVA
                            H  M   S   DIR DIS LG  A/T   AZ TZ  AN TN  AE TE  MAG
          KRP   EP      Z     00 47 31        68

MAR 12    WTZ   P       Z     08 01 55
          KRP   P       Z     08 01 57.5
          MNG   P       Z     08 02 22

MAR 12    KRP   P       Z     11 54 54.5
          GNZ   P       ZNE   11 55 08.5
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	H M S	EPICENTRE	DEPTH	MAG
MAR 12	14 27 11.9	33.5N 141.0E	57KM	4.0 E. OF HONSHU

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z 14 39 07		78	-1.31							5.7
MAR 12	AFI	P	Z 20 25 01										
		S	ZNE 53										
MAR 13	RAO	EP	Z 01 55 46										
		S	Z 56 32										

	H M S	EPICENTRE	DEPTH	MAG
MAR 13	05 40 50.3	23.9S 179.9E	523KM	4.9 S. OF FIJI

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P	Z 05 42 24		6	0.56							
		S	Z 43 38										
	CRZ	P	ZNE 05 43 24.9		12	-0.25							
	AFI	P	ZNE 05 43 31		13								
		S	ZNE 45 39										
	WTZ	P	Z 05 43 52		14								
		S	Z 46 23										
	KRP	P	ZNE 05 43 55.6		14	-0.50							
		I	ZNE 59.3										
		S	ZNE 46 35										
	GNZ	P	ZNE 05 43 56.5		15	-0.31							
		ES	ZNE 46 32										
	MNG	EP	Z 05 44 18		17								
		S	Z 47 14										
	WEL	P	ZNE 05 44 28		18	-0.73							5.8
		S	ZNE 47 26										
	MJZ	P	ZNE 05 45 03		21								
MAR 13	AFI	P	ZNE 08 37 57										
		S	ZNE 39 10										
MAR 13	RAO	IP	Z 23 54 28.50										

	H M S	EPICENTRE	DEPTH	MAG
MAR 14	00 47 13.9	33.3N 140.9E	38KM	5.4 S. OF HONSHU

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	IP	ZNE 00 59 10.90		78	-0.74							6.4
	COB	P	Z 00 59 18.5		80								
	MNG	P	Z 00 59 21.5		80	-1.08							6.1
	MJZ	P	ZNE 00 59 29		82	-1.18							6.0

	H M S	EPICENTRE	DEPTH	MAG
MAR 14	07 16 16.6	22.7S 175.9W	135KM	4.7 TONGA REGION

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P	Z 07 17 56		7								
		S	Z 19 15										
	AFI	P	ZNE 07 18 22		10								
		S	ZNE 19 56										
	RAR	EP	Z 07 19 43		15								
		ES	ZNE 22 18										
		ET	ZNE 34 10										
	GNZ	ES	Z 07 23 33		18								
	MNG	EP	Z 07 20 29		19								
		S	Z 23 58										
	WEL	ES	ZNE 07 24 11		20								
	COB	EP	Z 07 20 47		21								
		ES	Z 24 28										

	H M S	EPICENTRE	DEPTH	MAG
MAR 14	08 56 52.4	22.8S 171.6E	33KM	LOYALTY IS

			H M S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z 08 10 40		15								
	MNG	EP	Z 08 11 08		19								

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        MJZ  EP       Z   08 11 43        21 +1.03                          5.2

MAR 14  WTZ  EP       Z   09 39 17
        KRP   P       Z   09 39 21.7
        MNG   P       Z   09 39 41
        COB   P       Z   09 39 52

         H  M   S      EPICENTRE    DEPTH  MAG
MAR 14  12 20 36.0   12.5S 167.1E  234KM  4.6  SANTA CRUZ IS
                          H  M   S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   12 25 53        26
        MNG   P       Z   12 26 14.2      29 +1.44                          5.1
        MJZ  EP       ZNE 12 26 39        32 +1.50                          5.1

         H  M   S      EPICENTRE    DEPTH  MAG
MAR 14  13 49 48.4   22.2S 171.3E  160KM  4.7  LOYALTY IS
                          H  M   S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP       Z   13 53 27        16
        AFI   P       Z   13 53 44        18
        MNG   P       Z   13 53 55.2      19 -0.70                          5.6
        COB   P       Z   13 53 59.3      19 -0.96                          5.3

         H  M   S      EPICENTRE    DEPTH  MAG
MAR 14  14 05 45.8   39.3N  29.4E   33KM  5.4  TURKEY
                          H  M   S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        AFI   PKP     Z   14 25 33        149
        MNW   PKP     Z   14 25 32        149
              PKP     Z          36.5
        MJZ   PKP     ZNE 14 25 36        151
        COB   PKP     Z   14 25 37.5      152
              PKP     Z          42.4
        KRP   PKP     ZNE 14 25 42.3      154
              PKP     ZNE        47.2
              E       Z          56
              PKP2    Z       26 00
        MNG   EPKP    Z   14 25 42        154
              PKP     Z          46.5
              PKP2    Z       26 00.5
              E       Z          18

MAR 15  RAO   P       Z   02 02 51.8
              S       Z       03 09.5

MAR 15  RAO   P       Z   02 42 46

         H  M   S      EPICENTRE    DEPTH  MAG
MAR 15  05 00 21.0    7.6S 125.9E  234KM  5.6  BANDA SEA
                          H  M   S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        MNW   P       Z   05 09 09.5      52 +0.78                          5.8
        MJZ   IP      ZNE 05 09 16.2J     53
        COB   P       Z   05 09 17.9      53 -0.70                          5.9
        KRP   IP      ZNE 05 09 23.7J     54 -0.85                          5.8
              ePP     Z       10 20
        WEL   P       Z   05 09 27        55 -0.76                          5.9
        MNG   P       Z   05 09 37.1      55 -1.01                          5.6
        GNZ   P       ZNE 05 09 37.1      56 -0.42                          6.3
        SBA  EP       ZNE 05 11 28.5      73

         H  M   S      EPICENTRE    DEPTH  MAG
MAR 15  05 39 51.2    4.3S 134.5E   29KM  5.6  WEST IRIAN
                          H  M   S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        MNG  EP       Z   05 48 57        52

MAR 15  RAO   P       Z   11 08 48.0
              S       Z       09 05
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		H	M	S	EPICENTRE		DEPTH	MAG									
MAR 15	11	23	08,7	51,6N	176,8E		39KM	5,4	ALEUTIAN IS								
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		S	N	11	42	26		66								
		EL		ZN		53	20										
	KRP		P	Z	11	36	02		89	-1,15							6,2
			PP	ZNE			17,6										

		H	M	S	EPICENTRE		DEPTH	MAG									
MAR 15	14	58	00,9	32,7S	178,8W		28KM	5,0	S. OF KERMADEC IS								
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P	Z	14	56	55,0	U	4								
			S	Z		59	37										
	GNZ		P	ZNE	14	59	36,8		6								
			S	ZNE	15	00	50										
	KRP		P	ZNE	14	59	45		7								
		ES		ZNE		01	12										
	CRZ		P	ZNE	14	59	51		7								
	WEL	ES		ZNE	15	02	07		10								
	AFI	EP		Z	15	02	30		20								
		ES		ZNE		05	56										

		H	M	S	EPICENTRE		DEPTH	MAG									
MAR 15	19	41	07,6	6,7N	126,4E		42KM	4,9	MINDANAO								
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	19	51	41,5		64								
MAR 16	AFI	IP		ZNE	00	31	57,1			-1,05							
		S		ZNE		33	49										

		H	M	S	EPICENTRE		DEPTH	MAG									
MAR 16	05	09	06,2	15,7N	121,8E		53KM	5,1	LUZON								
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	05	20	39		73	-1,16							5,8
	MJZ	EP		ZNE	05	20	47		74	-1,13							5,9
MAR 16	AFI	EP		Z	07	06	56										
		E(S)		NE		08	24										

		H	M	S	EPICENTRE		DEPTH	MAG									
MAR 16	21	47	51,2	6,0N	124,4E		67KM	5,0	MINDANAO								
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	21	58	24		65	-1,15							5,9
	MJZ		P	Z	21	58	25		65	-1,18							5,9

		H	M	S	EPICENTRE		DEPTH	MAG									
MAR 17	00	21	25,8	24,7S	179,6W		407KM	5,6	S. OF FIJI								
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	IP		Z	00	22	49,1	U	5								
		S		Z		23	47										
	CRZ	IP		ZNE	00	24	08,2	USE	12	0,41							
		S		ZNE		26	19										
	GBZ	IP		Z	00	24	10,6	U	12								
		SCP		Z		32	08										
	ONE	IP		E	00	24	11,7		12								
		S		E		26	28										
	AFI	P		ZNE	00	24	15		13								
		S		ZNE		26	29										
	ECZ	P		Z	00	24	15		13								
		(S)		Z		26	38										
		SCS		Z		35	50										
	AUC	IP		Z	00	24	20,0	U	13								
	WTZ	P		Z	00	24	21		14								
		I		Z			22,7										
		E-SP		Z		25	44										
		S		Z		26	46										
		ESCS		Z		35	42										

	KRP	IP	ZNE	00	24	27.3	JSW	14	0.47		
		*SP	ZNE		25	55					
		S	ZNE		26	57					
		SCS	E		35	45					
	GNZ	P	ZNE	00	24	24.9		14			
		S	ZNE		26	54					
		SCP	ZN		32	10					
		SCS	ZNE		35	50					
	TUA	P	Z	00	24	28		14			
		S	Z		27	04					
	WNZ	P	Z	00	24	33		14			
		ES	Z		27	11					
	CNZ	P	Z	00	24	37.3		15			
		S	Z		27	22					
	TRZ	P	Z	00	24	36		15			
		S	Z		27	20					
	TNZ	P	Z	00	24	43.3	J	15			
		ES	Z		27	31					
	MNG	EP	Z	00	24	49		16			
		I	Z			52.4					
		E*SP	Z		26	12					
		E	Z		27	08					
		S	Z			39					
		SCP	Z		32	15					
		ESCS	Z		35	49					
	WEL	P	Z	00	24	58.3		17	-0.09		6.2
		S	Z		27	51					
		SCP	Z		32	16					
		SCS	Z		35	56					
	COB	P	Z	00	25	03.5		18			
		S	Z		28	04					
		SCP	Z		32	14.5					
	RAR	IP	Z	00	25	17.5	D	19			
		S	ZN		28	24					
		L	ZN		30	02					
		T	ZNE		40	32					
	KAI	S	X	00	28	28		19			
	GPZ	EP	N	00	25	28.5		20			
		S	N		28	42					
	MJZ	P	ZNE	00	25	35.7		21			
		*PP	ZNE		26	43					
		S	ZNE		28	53					
		SCP	ZNE		32	24.9					
	ROX	EP	Z	00	25	53		23	-0.69		5.6
		*PP	Z		27	01.5					
		ES	Z		29	25					
	MNW	P	Z	00	25	59.5		23	-0.58		5.7
		*PP	Z		27	14					
		ES	Z		29	36					
	SBA	IP	ZNE	00	30	09.8		54			
		E*PP	ZNE		31	40.5					
		ESCP	ZNE		34	25					
MAR 17	KRP	P	Z	05	35	09					
	GNZ	P	Z	05	35	28					
	MNG	EP	Z	05	35	36					
MAR 17	WTZ	ES	Z	18	14	31					
	GNZ	ES	ZNE	18	14	37					
	MNG	EP	Z	18	12	51					
		S	Z		15	31					

	H	M	S	EPICENTRE		DEPTH	MAG									
MAR 18	00	41	48.3	46.9N	143.7E	405KM	5.0	SAKHALIN IS								
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	00	54	02		89	-1.04						5.9
	MNG		P	Z	00	54	10.6		92							

	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 18	03	34	06.2	19.1S 169.3E	241KM	4.7	NEW HEBRIDES									
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	P	Z	03	38	32		21								
	MNG	IP	Z	03	38	43.2	J	22	=0.76							5.7
	WEL	P	Z	03	38	48		23								
MAR 18	KRP	P	Z	04	06	45										
	GNZ	P	Z	04	06	59										
	MNG	P	Z	04	07	12										
	MJZ	P	Z	04	07	47										
MAR 18	RAR	P	Z	04	21	43.4	D									
	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 18	07	12	53.4	33.4N 140.8E	69KM	4.5	S. OF HONSHU									
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	07	24	46.8		78	=0.97							6.0
	MNG	P	Z	07	24	58		80								
	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 18	15	00	59.7	68.8N 17.3W	33KM	4.9	ICELAND									
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EPKP	Z	15	20	58		151								
	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 18	15	39	20.3	19.8S 178.1W	591KM		FIJI REGION									
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	15	41	08		8								
		S	ZNE		42	58										
	MNG	EP	Z	15	43	27.5		21								
	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 18	23	17	40.9	33.5N 141.2E	47KM	5.9	E. OF HONSHU									
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	23	28	19		65								
		ES	ZNE		37	08										
		E(SSS)	E		44	40										
		LR	ZNE		48											
	KRP	P	ZNE	23	29	38		78	=0.67							6.4
	GNZ	P	Z	23	29	43.1		79	=0.84							6.3
	MNG	P	Z	23	29	48	J	80	=0.79							6.3
		(*PP)	Z		30	04										
	WEL	P	Z	23	29	50.3		81	=0.79							6.3
	MSZ	P	Z	23	29	56.5		82	=0.91							6.2
	MJZ	P	ZNE	23	29	55.5		82	=0.79							6.3
	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 19	00	49	06.5	5.6S 152.4E	41KM	5.5	NEW BRITAIN									
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	00	36	27		38	=1.22							5.6
	GNZ	P	ZNE	00	36	42		40	=0.61							6.2
	MNG	P	Z	00	36	43		41								
	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 19	04	04	25.7	18.2S 178.0W	593KM	4.5	FIJI REGION									
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	Z	04	06	17	J	7								
		S	ZNE		07	47										
	WTZ	P	Z	04	08	21.8		20								
	KRP	P	Z	04	08	26		20	=1.09							5.4
	MNG	P	Z	04	08	46.5		23								
	H	M	S	EPICENTRE	DEPTH	MAG										
MAR 19	04	34	50.3	23.7S 176.1W	140KM	4.4	S. OF FIJI									
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	04	57	04		11								

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            ES      ZNE     58 52
       RAR  EP      Z   04 58 01        13
            ES      ZE  05 00 32
            ET      ZNE     13 22
       MNG  EP      Z   04 58 50        18

        H  M  S      EPICENTRE    DEPTH  MAG
MAR 19  05 27 26.6   5.4S 152.7E   48KM  4.8  NEW BRITAIN
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       MNG  EP      Z   05 35 05        41

MAR 19  RAO  IP      Z   06 31 09.9D
        WTZ   P      ZNE 06 33 06.0
              S      Z       34 58
        ORZ   P      ZNE 06 33 21.0
        GNZ   S      ZNE 06 35 00
        MNG  EP      Z   06 33 48
             ES      Z       36 01
       FELT RAOUL ISLAND MM 2

MAR 19  RAO  IP      Z   06 32 44.6J
             S       Z       55
       FELT RAOUL ISLAND MM 2

MAR 19  RAO   P      Z   12 29 40
              S      Z       30 31
        GNZ   P      ZNE 12 30 13
              S      ZNE     31 35
        KRP   P      ZNE 12 30 19
              S      NE      31 43
        MNG   P      Z   12 30 40
              S      Z       32 27
        WEL   P      ZNE 12 30 51
              S      ZNE     32 44
        MUZ  EP      ZNE 12 31 40
             ES      ZNE     34 04

        H  M  S      EPICENTRE    DEPTH  MAG
MAR 19  12 36 38.6   5.1S 151.6E   98KM  4.9  NEW BRITAIN
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        GNZ   P      Z   12 44 14        41 -0.66                       6.1
        MNG   P      Z   12 44 15.3      41
        MSZ   P      Z   12 44 23.2      42 -1.27                       5.5

        H  M  S      EPICENTRE    DEPTH  MAG
MAR 19  13 07 44.4   4.9S 153.0E   60KM  5.0  NEW IRELAND
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        GNZ   P      Z   13 15 19        41 -0.61                       6.2
        MNG   P      Z   13 15 22        41
        MSZ   P      Z   13 15 31.5      42 -1.16                       5.6

        H  M  S      EPICENTRE    DEPTH  MAG
MAR 19  13 19 39.6   5.4S 152.6E   49KM  5.0  NEW BRITAIN
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       MNG  EP      Z   13 27 15        41

        H  M  S      EPICENTRE    DEPTH  MAG
MAR 19  15 57 50.4   40.8N 141.9E  76KM  6.0  E. OF HONSHU
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P      Z   16 08 53        69
              S      ZNE     18 04
             ESS     Z       22 24
             ESSS    NE      25 48
              LR     ZNE     29
        KRP  IP      ZNE 16 10 16.7JS   84 -0.10                       7.0
             *PP     ZNE     36
        GNZ   P      ZNE 16 10 23        86 -0.14                       7.0
             *PP     ZNE     42
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        MNG   IP       Z   16 10 27.3J     87 -0.27                    6.9
              PDP      Z       35.4
              *PP      Z       47
              E        Z       53
        WEL   P        Z   16 10 28         87 -0.44                    6.7
        MJZ   P        ZNE 16 10 35.8       88 -0.47                    6.7
              PP       ZNE     14 04
        MSZ   P        Z   16 10 36.0       88 -0.50                    6.7
              EPP      Z       14 03

MAR 20  AFI   P        Z   01 49 07.0

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 20  02 52 20.9     7.8S 127.8E  33KM       BANDA SEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   EP       Z   03 01 21        51
        MJZ   EP       Z   03 01 29        52
        KRP   EP       Z   03 01 35        52
        MNG   EP       Z   03 01 44        53

MAR 20  KRP   P        Z   03 33 39.7

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 20  07 33 49.6     6.8S  76.8W  64KM   5.1  N. PERU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAR   EP       Z   07 46 06        81
              ES       ZNE     56 20
              ELR      ZNE 08 11
        SBA   EP       ZNE 07 46 39        89
              ELR      ZNE 08 16 00
        AFI   P        Z   07 47 05        93
              SKS      ZNE     57 28
              S        ZNE     59 24
              SS       ZNE 08 04 16
              LQ       E       13
              LR       ZNE     17
        WEL   E(*PP)   Z   07 47 38        99
              EPP      Z       50 43
              ESKS     NE      58 05
              SP       ZNE 08 00 24
              EL       ZNE     13
        KRP   EP       Z   07 47 32       100

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 20  07 51 04.8     6.6S  76.8W  50KM   5.4  N. PERU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   08 03 54       100 -0.92                    6.7

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 20  10 18 14.4     33.3N 140.6E 46KM   4.3  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   EP?      Z   10 30 30        82

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 20  13 11 24.3     1.1S 100.3E  55KM   4.8  S. SUMATRA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   EP       Z   13 23 11        75
        MNG   P        Z   13 23 31        78

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 20  13 40 20.9     8.3S 119.7E 196KM   5.1  FLORES REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P        Z   13 49 45        57 -1.43                    5.4
              (*PP)    Z       50 50
        MNG   P        Z   13 50 01        59
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	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 20	22	56	08.5	7.0S	105.4E	65KM	5.3	JAVA							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		P	Z	23	06	50		66	-1.21						5.8
	MJZ		P	Z	23	06	59.5		67	-1.11						5.9
	MNG		EP	Z	23	07	18		70							

	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 20	23	31	48.8	51.3N	179.2W	46KM	6.0	ALEUTIAN IS							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	Z	23	42	28		65	-0.63						6.5
			S	ZN		51	22									
			LR	ZN	24	01	20									
	CRZ		P	Z	23	44	25		86							
	KRP		P	ZNE	23	44	39.3D		89	-0.37						7.0
			S	E		55	27.5									
	GNZ		P	Z	23	44	42.5		90	-0.72						6.7
	MNG		P	Z	23	44	50.6		92	-1.16						6.3
	MJZ		P	ZNE	23	45	07		95							
	SBA		EPKP	ZNE	23	51	32		129							
			EPP	ZNE		53	14									

	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 20	23	42	56.8	24.6S	179.7W	516KM	5.0	S. OF FIJI							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P	Z	23	44	21.0		5							
		I		Z			22.2									
			S	Z		45	29									
	CRZ		IP	ZNE	23	45	35.4J		12	0.41						
			S	ZNE		47	51									
	ONE		P	E	23	45	39.8		12							
			S	E		47	55									
	GRZ		P	Z	23	45	40.6		12							
	AFI		P	ZNE	23	45	43		13							
			S	ZNE		47	59									
	ECZ		EP	Z	23	45	47		13							
	WTZ		P	Z	23	45	49.3		14							
			S	Z		48	16									
	KRP		P	ZNE	23	45	54.4		14	-0.23						
			S	ZNE		48	24									
	GNZ		P	ZNE	23	45	54		14							
			S	ZNE		48	21									
	TUA		EP	Z	23	45	59		14							
		E(S)		Z		48	28									
	TRZ		P	Z	23	46	05.7		15							
			S	Z		48	45									
	MNG		P	Z	23	46	17		16							
			S	Z		49	07.5									
			SCP	Z		33	29.5									
	WEL		P	ZNE	23	46	26.5		17	0.17						6.7
			S	ZNE		49	21									
	RAR		P	NE	23	46	44		19							
			S	ZNE		49	56									
			T	ZNE	24	02	32									
	CIZ		P	Z	23	46	52		19							
	GPZ		P	N	23	46	53		20							
			S	N		50	06									
	MJZ		P	ZNE	23	47	00.6		21							
			S	ZNE		50	24									
			SCP	Z		53	40.5									
	MSZ		P	Z	23	47	16		22							
			S	Z		50	45									
MAR 21	RAO		IP	Z	01	03	39.6D									

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                H  M  S       EPICENTRE    DEPTH  MAG
MAR 21          09 47 38,3    50,0N 176,2W  33KM  5,4  ALEUTIAN IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
                KRP    P      Z   10 00 25,8      88 -0,86                     6,5
                MNG    P      Z   10 00 36        91 -1,32                     6,1

MAR 21          RAO    ES     Z   10 02 55

MAR 21          MNG    P      Z   11 54 57,8U

MAR 21          AFI  E(P)     Z   13 27 57
                       S      ZNE 29 12

                H  M  S       EPICENTRE    DEPTH  MAG
MAR 21          14 33 09,8    11,6S 166,5E 119KM  5,1  SANTA CRUZ IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
                MNG    P      Z   14 39 09        30
                MJZ    P      ZNE 14 39 32,3      32 -1,29                     5,5
                MSZ    P      Z   14 39 36,5      33

                H  M  S       EPICENTRE    DEPTH  MAG
MAR 21          16 33 54,4    29,7S 177,0W  38KM       KERMADEC IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
                RAO   IP      Z   16 34 13,0D      1
                GNZ    S      ZNE 16 37 48        10
                CRZ    P      ZNE 16 36 17        10
                MNG   EP      Z   16 36 41        13
                      ES      Z      38 46,5
                MJZ    P      ZNE 16 37 49        17

                H  M  S       EPICENTRE    DEPTH  MAG
MAR 21          17 02 57,9    29,3S 178,4W  150KM  4,3  KERMADEC IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
                RAO   IP      Z   17 03 19,1D      9
                       S      Z      35
                CRZ    P      ZNE 17 05 11,2U      9
                GNZ   EP      ZNE 17 05 05        10
                       S      ZNE    06 56
                MNG    P      Z   17 05 39        12
                       S      Z      07 50
                MJZ   EP      ZNE 17 06 44        17

                H  M  S       EPICENTRE    DEPTH  MAG
MAR 21          23 55 21,5    3,2S 139,0E  33KM       WEST IRIAN
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
                MNG    P      Z   24 04 10,5      50

MAR 22          AFI   IP      ZNE 00 23 42  U
                       S      ZNE    24 02

                H  M  S       EPICENTRE    DEPTH  MAG
MAR 22          00 51 51,6    40,3N  42,1E  34KM  4,8  TURKEY
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
                KRP  EPKP     Z   01 11 26      144

                H  M  S       EPICENTRE    DEPTH  MAG
MAR 22          02 59 09,0    53,0N 159,6E  41KM  5,2  KAMCHATKA
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
                KRP   EP      Z   03 12 12,7      92

                H  M  S       EPICENTRE    DEPTH  MAG
MAR 22          03 36 53,5    12,0S 166,4E  80KM       SANTA CRUZ IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
                MNG   EP      Z   03 42 52        30
                MJZ   EP      Z   03 43 14        32
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	H	M	S	EPICENTRE		DEPTH	MAG									
MAR 22	06	54	52.6	4.8S	102.2E	67KM		S. SUMATRA								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG		EP?	Z	07	06	26		74								
	H	M	S	EPICENTRE		DEPTH	MAG									
MAR 22	08	29	30.2	21.8S	174.8W	133KM	4.9	TONGA IS								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		EP?	Z	08	31	32		8								
			S	Z		32	39										
	AFI		P	ZNE	08	31	12		8								
			S	ZNE		32	36										
			T	ZNE		39	11										
	RAR		P	Z	08	32	21		14								
			S	ZNE		34	38										
	GNZ		P	ZNE	08	33	28		18	-0.87							5.3
			S	ZNE		36	38										
	KRP		EP	Z	08	33	31		19								
	MNG		EP	Z	08	33	53		20	-1.46							4.8
			ES	Z		37	29										
	WEL		EP	Z	08	34	08		21								
	MJZ		EP	ZNE	08	34	44		23	-1.29							5.2
	MSZ		P	Z	08	35	00.3		27								
	MNW		P	Z	08	35	10		28	-0.92							5.6
	H	M	S	EPICENTRE		DEPTH	MAG									
MAR 22	08	49	28.8	22.2S	174.4W	33KM	5.0	TONGA REGION								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		ES	Z	08	52	50		9								
	AFI		P	ZNE	08	51	23		9								
			S	ZNE		52	56										
			T	ZNE		59	46										
	WTZ		EP	Z	08	53	38		17								
	KRP		EP	Z	08	53	49		18								
	MNG		EP	Z	08	54	06		20								
			ES	Z		57	32										
	MJZ		EP	Z	08	54	59.5		25								
	H	M	S	EPICENTRE		DEPTH	MAG									
MAR 22	10	27	41.9	49.1N	133.6E	134KM	6.3	KURIL IS								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	ZNE	10	38	39		70								
			PCP	ZNE		39	14										
			PP	Z		41	16										
			S	ZNE		47	40										
			SS	Z		52	00										
			SSS	E		56	00										
			LR	ZNE		59											
	RAR		EP	Z	10	40	18		81								
			S	ZNE		49	48										
			LQ	NE	11	00											
			LR	Z		03											
	CRZ		P	Z	10	40	04.5		85								
			*PP	Z			37.5										
	KRP		P	ZNE	10	40	21.9		89	-0.69							6.4
			*PP	ZNE			57										
			PP	Z		43	55.5										
			SKS	ZNE		50	36										
	MNG		P	Z	10	40	31.2		91	-1.04							6.2
			*PP	Z		41	05.5										
			ESKS	Z		50	53										
			ES	Z		51	29										
	WEL		P	ZNE	10	40	34.5		92	-0.66	12	14					6.8
			*PP	ZNE		41	08										
			PP	ZNE		44	36										
			SKS	ZNE		50	50.4										
			S	ZNE		51	24						18	15	9	14	7.0

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                (PS)   E        52 28
                 SP    Z           32
                ESS    ZNE      57 08
                ELQ    NE   11 04
                 LR    ZNE      10
        MJZ      P     ZNE 10 40 45        94 -1.23                          6.2
                 ePP   ZNE      41 19
                EPP    Z        44 23
        SBA     EPKP   ZNE 10 46 31       127

MAR 22  MNG      P     Z   10 53 13
        MJZ      P     Z   10 53 51.5

MAR 22  CRZ     EP     Z   10 55 29
        KRP      P     ZNE 10 56 24.3         -0.87
        WTZ     EP     Z   10 56 29
        GNZ      P     ZNE 10 56 37.2         -0.99
        MNG      P     Z   10 56 51.7
                 E     Z       58 36.5
        WEL      P     ZNE 10 56 59.3
                 E     Z       58 34
        MJZ      P     ZNE 10 57 25.9         -0.93
        MSZ      P     Z   10 57 36

MAR 22  AFI      P     Z   11 06 43

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 22  11 17 22.2     3.3S 136.8E   81KM        WEST IRIAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG E(P)       Z   11 26 22       51

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 22  12 37 29.3     6.8S 129.9E  137KM  5.3  BANDA SEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ      P     Z   12 46 14       50
        MJZ      P     ZNE 12 46 21.2     51 -1.18                          5.7
                E(ePP)  Z           59
        MNG      P     Z   12 46 31.5     53

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 22  15 53 30.9     21.2S 174.4W  33KM  5.6  TONGA IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI      P     ZNE 15 55 15        8
                 S     ZNE     56 35
        RAO      P     Z   15 55 35.1      9  0.38
                 S     Z       57 11
        RAR      P     Z   15 56 33       14
                 S     ZNE     58 45
                 L     ZNE     59
                 T     ZNE 16 10 13
        CRZ      P     ZNE 15 57 38.5     17
        KRP      P     ZNE 15 57 57       19 -0.67                          5.5
                 S     ZNE 16 01 22
        MNG      P     Z   15 58 15       21 -0.96                          5.3
                 S     Z   16 02 08
        WEL      P     ZNE 15 58 26       22 -0.44                          5.9
                ES     ZNE 16 02 17
        MJZ      P     ZNE 15 59 05       26 -0.83                          5.7
                ES     ZNE 16 03 43
        MSZ      P     Z   15 59 21       28 -0.81                          5.7
        MNW      P     Z   15 59 29       29 -0.64                          6.0
        SBA     EP     ZNE 16 03 22       57

         H  M  S       EPICENTRE    DEPTH  MAG
MAR 22  16 16 19.3     33.4N 140.2E  81KM  4.2  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG      P     Z   16 28 24       81
```

	H M S	EPICENTRE	DEPTH	MAG	
MAR 22	16 33 32.4	71.0N 6.8W	33KM	5.3	N. OF ICELAND

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EPKP	Z 16 53 23		150								
	COB	EPKP	Z 16 53 52		150								
	MJZ	EPKP	Z 16 53 25.5		153								
		E	Z 47.4										
MAR 22	AFI	P	Z 23 12 22										
		(S)	ZNE 13 44										

	H M S	EPICENTRE	DEPTH	MAG	
MAR 23	05 25 48.7	59.1S 159.6E	33KM		MACQUARIE IS

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z 05 27 53.3		8								
	WPZ	P	Z 05 29 09.3		14								
	MNW	P	Z 05 29 14.9		14								
	MJZ	EP	ZNE 05 29 50		17	-1.09							5.1
	SBA	EP	ZNE 05 30 08		19								
	MNG	EP	Z 05 30 40		21	-1.03							5.2
		I	Z 47.2										
	KRP	EP	Z 05 31 08		24								

	H M S	EPICENTRE	DEPTH	MAG	
MAR 23	07 16 53.3	15.4S 172.9W	33KM	5.5	SAMOA REGION

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE 07 17 20.5	JNE	2								
		S	ZNE 36										
	RAR	IP	Z 07 20 02.0		14	-0.43							
		S	ZNE 22 22										
		T	ZNE 32 07										
	RAO	S	Z 07 22 50		15								
	CRZ	P	Z 07 21 59		23	-0.45							5.9
	KRP	P	ZNE 07 22 11		25	-0.59							5.8
		S	ZNE 26 40										
	CNZ	P	Z 07 22 22		25	-0.91							5.6
	MNG	P	Z 07 22 34.5		27								
		S	Z 27 30										
	MJZ	P	ZNE 07 23 17		32	-1.23							5.6
	MNW	P	Z 07 23 40		34								
	SBA	EP	ZNE 07 27 22		63								
	FELT APIA MM 4												
MAR 23	MNG	P	Z 08 17 46.8										
MAR 23	AFI	IP	ZNE 08 27 57	J									
		S	ZNE 28 28										
MAR 23	AFI	P	Z 09 08 05										
		S	ZNE 24										

	H M S	EPICENTRE	DEPTH	MAG	
MAR 23	09 23 59.6	58.9S 25.3W	33KM	4.9	SOUTH SANDWICH IS

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB	P	Z 09 36 03		79								
	MNG	P	Z 09 36 04		79								
	CNZ	P	Z 09 36 12		81	-1.08							6.1
	KRP	P	ZNE 09 36 17.3		82	-1.06							6.2
MAR 23	KRP	P	Z 09 34 39.5										

	H M S	EPICENTRE	DEPTH	MAG	
MAR 23	21 31 37.5	11.6N 141.9E	71KM	4.9	W. CAROLINE IS

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z 21 41 32		59	-1.30							5.9
	MNG	P	Z 21 41 42		61								

	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 23	21	48	12.0	1.5N	126.2E	33KM	5.1	MOLUCCAS							
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	P	Z	21	58	17.8		60								
	KRP	P	Z	21	58	17.8		60	-1.36							5.9
	MNG	P	Z	21	58	25		61								

	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 23	23	09	59.3	45.3S	166.4E	33KM	5.3	TASMAN SEA							
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	C9Z	EP	Z	23	11	47.7		7								
		ES	Z		13	03.5										
	AFI	P	Z	23	17	03		36								

	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 24	03	38	27.1	56.1N	157.2W	69KM	6.0	ALASKA							
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	03	49	49		71								
		S	N		59	00										
		SBS	E	04	07	00										
		LR	ZN		11											
	KRP	EP	Z	03	52	00.5		96								
		PP	Z		56	03										

	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 24	06	07	39.2	20.0S	177.7W	570KM	5.0	FIJI REGION							
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	06	09	34	U	8	-0.17							
		S	ZNE		11	08										
	RAO	S	Z	06	11	30		9								
	CRZ	P	ZNE	06	11	03.7	U	17	-0.12							6.3
	ECZ	P	Z	06	11	16.0		18								
	AUC	P	Z	06	11	14.9		18								
	WTZ	P	Z	06	11	15.3		19								
	KRP	IP	ZNE	06	11	21.5	USE	19	-0.09							6.4
		SCP	Z		18	01										
	GNZ	P	ZNE	06	11	20.3		19	0.21							6.7
		ES	ZNE		14	26										
		SCP	Z		19	03.5										
	TUA	P	Z	06	11	23		19								
	MNG	(P)	Z	06	11	43		21								
		SCP	Z		18	07.5										
		ESCS	Z		21	49										
	WEL	P	ZNE	06	11	49.4		22	-0.15							6.4
	C09	SCP	Z	06	18	08		23								
	MJZ	P	ZNE	06	12	21.7		25								
		SCP	Z		18	19.8										
	ONZ	P	Z	06	12	31		27								
	MSZ	P	Z	06	12	36		27	-0.66							5.8
	S9A	IP	ZNE	06	16	39		55								

	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 24	06	36	02.3	10.4S	161.4E	80KM	4.8	SOLOMON IS							
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	P	Z	06	43	27.3		33								
	MJZ	P	Z	06	43	43		34	-1.29							5.6
	MSZ	P	Z	06	43	46.5		35								

	H	M	S	EPICENTRE		DEPTH	MAG								
MAR 24	15	40	38.8	3.7N	125.5E	33KM	5.3	S. OF MINDANAO							
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z	15	50	54.7		61	-1.00							6.2
	MJZ	P	Z	15	50	59.5		62	-1.09							6.1
	MNG	P	Z	15	51	06		63								

	H M S	EPICENTRE	DEPTH	MAG								
MAR 24	16 43 27.1	33.3S 179.4W	80KM	5.5 S. OF KERMADEC IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO P	Z 16 44 23		4								
	(S)	Z 45 06										
	KRP P	ZNE 16 44 58.4		6								
	S	ZNE 46 15										
	CRZ P	ZNE 16 45 05.7		7								
	MNG EP	Z 16 45 22		8								
	S	Z 47 01										
	COB EP	Z 16 45 43		10								
	ES	Z 47 36										
	MJZ EP	ZNE 16 46 28		13	-1.35							
	SBA EP	ZNE 16 51 27		45								

	H M S	EPICENTRE	DEPTH	MAG								
MAR 24	17 17 40.7	7.2N 123.8E	33KM	5.5 MINDANAO								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 17 28 22.8		65								
	COB P	Z 17 28 24.7		66								
	MJZ P	ZNE 17 28 26.0		66	-1.09							6.1
	WEL P	Z 17 28 31.7		67	-1.11							6.1
	MNG P	Z 17 28 33		67								
	GNZ P	Z 17 28 37.5		68								

	H M S	EPICENTRE	DEPTH	MAG								
MAR 24	19 31 33.4	7.1N 123.8E	33KM	5.5 MINDANAO								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ P	Z 19 42 18.6		66	-1.35							5.8

	H M S	EPICENTRE	DEPTH	MAG								
MAR 24	22 56 44.7	53.1N 159.7E	41KM	5.4 KAMCHATKA								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 23 09 42		92	-1.11							6.4

	H M S	EPICENTRE	DEPTH	MAG								
MAR 25	00 56 05.1	48.0N 153.2E	134KM	5.8 KURIL IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI P	Z 01 06 58		69								
	KRP P	ZNE 01 08 41.0		88	-1.00							6.0
	(*SP)	Z 09 31										
	MNG P	Z 01 08 50.6		90	-1.21							6.0
	*PP	Z 09 30										
	COB P	Z 01 08 51.6		90								
	E*PP	Z 09 30										
	SBA EPKP	ZNE 01 14 50.5		126								

	H M S	EPICENTRE	DEPTH	MAG								
MAR 25	04 37 47.5	33.5N 141.0E	41KM	4.2 E. OF HONSHU								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 04 49 43.3		78	-1.30							5.7

	H M S	EPICENTRE	DEPTH	MAG								
MAR 25	05 26 41.0	21.7S 174.6W	33KM	5.4 TONGA IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO P	Z 05 28 34		8	0.10							
	S	Z 30 02										
	AFI P	ZNE 05 28 34		8								
	S	ZNE 29 59										
	T	ZNE 36 10										
	CRZ EP	Z 05 30 37		17								
	GNZ P	ZNE 05 30 50		18	-0.57							5.6
	ES	ZNE 33 48										
	MNG P	Z 05 31 17		21								
	ES	Z 34 48										
	WEL EP	Z 05 31 29		21	-0.87							5.4
	MJZ P	ZNE 05 32 06		25	-1.29							5.2

	MNW	P	Z	05	32	30		28	-0.86								5.7
	SBA	EP	ZNE	05	36	24		57									
MAR 25	AFI	IP	ZNE	10	22	53.5U											
		S	ZNE		23	16											
	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 25	12	15	29.6	3.5S		150.1E	41KM	5.5	NEW IRELAND								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ	P	ZNE	12	22	42			37								
	AFI	P	Z	12	23	05			39								
		S	NE		28	48											
		SS	ZNE		31	52											
		LR	ZE		34												
	KRP	P	ZNE	12	23	13.4			41	-0.39							6.3
		(*PP)	ZNE			24.1											
		(PCP)	Z		25	22.5											
	GNZ	P	ZNE	12	23	29			43	0.22							7.0
		(*PP)	ZNE			39.1											
		ES	NE		30	02											
	MNG	P	Z	12	23	28.5			43	-0.43							6.4
		(*PP)	Z			38.4											
		PCP	Z		25	27											
	WEL	EP	ZNE	12	23	31			44	-0.17							6.6
		(*PP)	ZNE			41.7											
		EPP	Z		25	18					17	11					6.8
		S	ZNE		30	01									16	14	6.6
		E	NE		32	05											
		ESS	ZNE		33	26											
		LQ	NE		34												
		LR	ZNE		36	04					168	21	83	20	70	20	
	MSZ	P	Z	12	23	34			44								
		EPCP	Z		25	22											
	MJZ	P	ZNE	12	23	35			44								
		PCP	ZNE		25	30.5											
	SBA	EP	ZNE	12	27	09			75								
		ES	ZNE		36	50											
		ESCS	ZNE		37	30											
		ESS	ZNE		41	22											
		ELQ	ZNE		47	12											
		ELR	ZNE		50	40											
MAR 25	AFI	P	ZNE	13	39	23											
		(S)	ZNE		41	15											
	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 25	22	59	40.3	43.4N		146.0E	43KM	5.8	KURIL IS								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	23	10	55			69								
		S	ZN		19	48											
		S	E		20	12											
		SS	Z		23	54											
		SSS	ZE		27	56											
		LR	ZNE		31												
	RAR	S	ZNE	23	21	56			81								
		L	ZNE		36												
	KRP	EP	Z	23	12	15			85	-0.54							6.7
		(*PP)	ZNE			27											
		EPP	Z		15	48											
	MNG	EP	Z	23	12	27			88								
		(*PP)	Z			39.5											
	WEL	EP	Z	23	12	29			88								
		SKS	ZNE		23	10							5	5			
		SP	ZNE		24	12											
		ESS	ZNE		29	03											
		L	ZNE		40												
	MJZ	P	ZNE	23	12	36.6			90	-0.73							6.7
		(*PP)	ZNE			49											

		E	ZNE			57											
	MSZ	EP	Z	23	12	37.5	90										
	SBA	EPKP	ZNE	23	18	30	122										
MAR 26	RAO	P	Z	01	03	12											
	GNZ	EP	ZNE	01	04	54											
		S	ZNE		06	34											
	KRP	EP	Z	01	05	04											
	CRZ	P	ZNE	01	05	04.8											
	MNG	EP	Z	01	05	31											
		ES	Z		07	33											
	WEL	S	ZNE	01	07	51											
	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 26	03	54	46.3	27.1N		44.4W	33KM	4.4	N. ATLANTIC RIDGE								
				H	M	S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MNG	EPKP	Z	04	14	22		149									
MAR 26	KRP	P	Z	04	14	53											
	MNG	P	Z	04	15	02.5											
	COB	P	Z	04	15	14											
MAR 26	KRP	P	Z	04	16	50											
	MNG	P	Z	04	17	10											
	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 26	05	54	27.7	5.6S		152.5E	42KM	4.9	NEW BRITAIN								
				H	M	S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	06	01	49		38									
	MNG	P	Z	06	02	05		41									
MAR 26	API	IP	ZNE	08	11	04	D										
		S	ZNE			21											
MAR 26	API	P	ZNE	09	44	08											
		S	ZNE			27											
	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 26	09	39	48.9	5.8S		104.5E	80KM	5.2	S. SUMATRA								
				H	M	S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MSZ	P	Z	09	50	38		67									
	MJZ	P	Z	09	50	46		69	=1.29								5.7
	KRP	P	Z	09	51	04		72									
	CNZ	P	Z	09	51	04.3		72									
MAR 26	WTZ	P	Z	11	29	44.3											
	GNZ	P	Z	11	29	47											
	KRP	P	Z	11	29	50.2											
	MNG	P	Z	11	30	12											
		ES	Z		33	47											
MAR 26	RAO	P	Z	13	18	39.5											
		S	Z		19	09											
	MNG	EP	Z	13	21	24											
		ES	Z		23	58											
MAR 26	RAO	EP	Z	14	40	19											
		S	Z			49											
	WTZ	P	Z	14	41	20											
		S	Z		42	40											
	GNZ	P	ZNE	14	41	23.5											
		S	ZNE		42	45											
	CRZ	P	ZNE	14	41	34											
	KRP	EP	Z	14	41	37											
	MNG	EP	Z	14	41	55											
		ES	Z		43	44											
	WEL	ES	ZNE	14	44	02											

	H	M	S	EPICENTRE		DEPTH	MAG							
MAR 27	05	34	11.3	19.3S	177.7W	576KM	4.3	FIJI REGION						
				H	M	S	DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP		Z	05	36 04	J	9									
		S		Z		37 34											
	KRP	P		Z	05	38 03		19		-1.46							5.1
	MNG	EP		Z	05	38 22		22									
MAR 27	WTZ	EP		Z	11	03 35											
	GNZ	P		ZNE	11	03 41											
		S		ZNE		06 43											
	KRP	P		Z	11	03 44.4											
	MNG	P		Z	11	04 03											
	COB	P		Z	11	04 15											
	MNG	S		Z	11	07 31											
	MJZ	EP		Z	11	04 49											
	H	M	S	EPICENTRE		DEPTH	MAG							
MAR 27	11	12	28.1	17.9S	178.5W	570KM	5.2	FIJI REGION						
				H	M	S	DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP		ZNE	11	14 21.8	D	8									
		S		ZNE		15 52											
	RAO	S		Z	11	17 10		11									
	RAR	EP		ZE	11	16 18		18									
	CRZ	P		ZNE	11	16 21		18									
	KRP	P		ZNE	11	16 30.2		21		-1.04							5.5
		E*PP		ZNE		17 49											
		S		ZE		19 43											
	MNG	P		Z	11	16 30.5		23									
		*PP		Z		17 21											
		S		Z		20 20											
		ESCP		Z		23 09											
		ESCS		Z		26 31											
	WEL	P		Z	11	16 38.8		24		-0.96							5.5
	MJZ	P		ZNE	11	17 29.5		28		-1.05							5.4
		*PP		Z		19 05											
		ES		ZNE		21 30											
		SCP		Z		23 18.5											
		ESCS		ZNE		28 10											
	MSZ	P		Z	11	17 44.3		29									
		*PP		Z		19 19											
	MNW	P		Z	11	17 53.4		30		-0.82							5.8
		*PP		Z		19 26											
	SBA	EP		ZNE	11	21 45.5		60									
	H	M	S	EPICENTRE		DEPTH	MAG							
MAR 27	12	09	41.2	14.6S	76.1W	63KM	5.2	PERU						
				H	M	S	DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	12	21 54.5		81									
	H	M	S	EPICENTRE		DEPTH	MAG							
MAR 27	17	03	28.8	6.4S	129.0E	20KM	5.6	BANDA SEA						
				H	M	S	DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	EP		Z	17	12 33		51									
	MJZ	P		ZNE	17	12 40		52		-1.09							5.9
	KRP	P		Z	17	12 44		53									
	MNG	EP		Z	17	12 50		54									
	H	M	S	EPICENTRE		DEPTH	MAG							
MAR 27	17	48	50.9	12.5S	166.3E	46KM		SANTA CRUZ IS						
				H	M	S	DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP		Z	17	54 53		29									
MAR 27	AFI	P		ZNE	17	56 30											
		S		ZNE		91											

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          H  M   S        EPICENTRE     DEPTH   MAG
MAR 27   23  14  43.8     1.0N 123.8E  241KM   5.0  SULAWESI
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNW    P         Z  23 24 30.2      60 =0.81                      5.9
         MJZ    P         ZNE 23 24 34.9     61 =0.88                      5.9
         WEL    P         ZNE 23 24 42.3     62 =0.73                      6.0
         MNG    IP        Z  23 24 43.5D     63 =1.01                      5.8
                 *PP      Z     25 47
         GNZ    P         Z  23 24 49        63

          H  M   S        EPICENTRE     DEPTH   MAG
MAR 28   04  21  57.3     49.7N  78.2E    0KM   5.2  E. KAZAKHSTAN
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         COB    PKP       Z  04 40 54.5     122

MAR 28   AFI    IP        Z  07 49 23  U
                 S         ZNE     54

          H  M   S        EPICENTRE     DEPTH   MAG
MAR 28   07  51  15.7     4.9S 153.0E   96KM   4.8  NEW IRELAND
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         COB    EP        Z  07 58 52        40
         MNG    P         Z  07 58 55        41
         MSZ    P         Z  07 59 04        42
                (*PP)     Z     18

          H  M   S        EPICENTRE     DEPTH   MAG
MAR 28   08  29  20.6     13.5N 120.8E  165KM   4.9  CENTRAL PHILIPPINES
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MJZ    P         ZNE 08 40 34       73 =1.18                      5.6
                E*PP      Z     41 25.5

MAR 28   AFI    P         Z  11 20 18
                (S)       ZNE    21 33
                (T)       ZNE    27 25

          H  M   S        EPICENTRE     DEPTH   MAG
MAR 28   13  58  21.9     30.7S 179.8W  337KM   5.7  KERMADEC REGION
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO    IP        Z  13 59 16.60      2
                (S)       Z     56
         GBZ    P         Z  14 00 04.5       7
         ONE    IP        E  14 00 09.1E      7
                 S        E     01 34
         ECZ    P         Z  14 00 03.2       7
                 S        Z     01 28
         CRZ    IP        ZNE 14 00 13.0U     7
                 S        ZNE    01 44.3
         GNZ    P         ZNE 14 00 14.0      8
                 S        ZNE    01 44.0
                 SCP      Z      09 13.6
                 SCS      ZNE    12 50
         KRP    P         NE  14 00 19.2      8
                I         NE     21.0
                 S        NE     01 55
                 SCS      NE     12 41
         TUA    P         Z  14 00 17.5       8
                I         Z      22.5
                (S)       Z      01 50
         CNZ    P         Z  14 00 29         9
                I         Z      31.2
         TNZ    P         Z  14 00 37        10
                 S        Z      02 32
         MNG    P         Z  14 00 41.1      11
                I         Z      45.0
                 S        Z      02 34
                 SCP      Z      09 15
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          SCS     Z        12 46
     WEL  P       ZNE 14   00 51        11
          S       ZNE      02 56
          I       Z        05 24.5
          SCS     ZNE      12 50
     COB  P       Z   14   00 59.3      12
          S       Z        03 07
     KAI  EP      X   14   01 22        14
          S       X        03 43
     MJZ  P       ZNE 14   01 39.5      15  -0.55                          5.7
          S       ZNE      04 18
          ESCP    Z        09 22
          SCS     ZNE      12 58
     OMZ  P       Z   14   01 50.2      16
          S       Z        04 34
     MSZ  EP      Z   14   01 59        17
          S       Z        04 56
     ROX  EP      Z   14   02 03        17
          ES      Z        04 58
     MNW  P       Z   14   02 09        18
          S       Z        05 17
     AFI  IP      Z   14   02 13        18
          S       ZNE      05 23
          SCP     Z        09 31
          T       ZNE      16 20
     RAR  EP      Z   14   02 43        20
          S       ZNE      03 56
          L       ZNE      06
     SBA  EP      ZNE 14   06 27        48
          E-PP    ZNE      07 36.5
          ESCP    ZNE      11 08
     FELT RAOUL I. MM IV

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 28  18 18 27.7     24.3S 178.7W   44KM  5.1  S. OF TONGA
                          H  M  S   DIR DIS LQ AZT  AZ TZ  AN TN  AE TE  MAG
     RAO  P       Z   18 19 45          5  0.01
          ES      Z      20 49
     AFI  P       ZNE 18 20 55        11
          S       ZNE    22 48
     RAR  P       Z   18 21 48        15  -0.42                          5.7
          S       ZNE    24 20
     GNZ  EP      ZNE 18 22 05        15  -0.61                          5.5
          ES      ZNE    24 41
     MNG  P       Z   18 23 04        18
          S       Z      25 57

MAR 28  RAR  P       Z   18 27 47          -0.66

MAR 28  AFI  IP      ZNE 21 28 18
          S       ZNE        38

MAR 29  AFI  P       Z   15 16 05
          S       ZNE        34

MAR 29  SBA  EP      ZNE 15 16 10.5

          H  M  S        EPICENTRE    DEPTH  MAG
MAR 29  16 13 20.3     4.1S 153.6E   215KM  5.0  NEW IRELAND
                          H  M  S   DIR DIS LQ AZT  AZ TZ  AN TN  AE TE  MAG
     NDF  EP      Z   16 18 34        27
     KRP  P       Z   16 20 28        39  -1.16                          5.4
          -PP     Z      21 13
          (PCP)   Z      22 34.2
     MNG  P       Z   16 20 35        41
          E       Z      21 32
          (PCP)   Z      22 40
     MSZ  P       Z   16 20 55        42  -0.93                          5.5
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	MJZ	P	Z	16	20	54		42										
		*PP	Z		21	39												
		E(PCP)	Z		22	44												
	H	M	S	EPICENTRE			DEPTH	MAG										
MAR 30	02	31	47.8	23.3S		176.8W	125KM	5.2	S. OF FIJI									
					H	M	S	DIR	DIS	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	RAO		S	Z	02	34	23		6									
	NDF		P	Z	02	33	42.1D		8									
			E	Z			54.8											
	AFI		EP	Z	02	34	16		1D									
			S	ZNE		35	55											
	RAR		IP	Z	02	35	27.4D		16	-0.49								5.7
			S	ZNE		38	07											
	KRP		P	Z	02	35	28		16									
	MNG		EP	Z	02	35	48		18									
			S	Z		39	00											
	MJZ		EP	ZNE	02	36	43		23									
	MNW		P	Z	02	37	06		26									
	SBA		EP	ZNE	02	41	1D.5		55									
	H	M	S	EPICENTRE			DEPTH	MAG										
MAR 30	05	34	54.7	25.7S		179.4E	532KM	6.2	S. OF FIJI									
					H	M	S	DIR	DIS	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	RAO		IP	Z	05	36	09.8D		4									
			(SCP)	Z		44	55											
			SCS	Z		48	46											
	NDF		IP	Z	05	36	50.1D		8									
			E	Z		37	22											
			E	Z			57											
			S	Z		38	16											
	CRZ		P	ZNE	05	37	17.6		10	1.56								
			I	ZNE			22.8											
			S	ZNE		39	22.5											
	ONE		P	E	05	37	24		11									
			I	E			28.5											
			S	E		39	31											
	GBZ		P	Z	05	37	22.0		11									
			I	Z			26.5											
			S	Z		39	33											
			SCP	Z		45	17											
			ESCS	Z		49	04											
	AUC		IP	Z	05	37	30.4D		12									
			(SCP)	Z		45	15											
			SCS	Z		49	03.9											
	ECZ		P	Z	05	37	3D		12									
			SCP	Z		45	24											
			SCS	Z		48	57											
	KRP		IP	ZNE	05	37	37.9D		13	0.64								
			I	ZNE			42.0											
			S	ZNE		39	59											
			SCP	Z		45	23.3											
			SCS	NE		48	54											
			E	Z	06	13	05											
			E	Z			34											
			E	Z		20	59											
	GNZ		P	ZNE	05	37	38.4		13	1.34								
			I	ZNE			42.0											
			(S)	ZNE		39	55											
			SCP	Z		45	26											
			SCS	ZNE		49	00											
			E	Z	06	13	05											
			E	ZNE		21	05											
	TUA		P	Z	05	37	41		13									
			I	Z			46.4											
			S	Z		40	03											
			SCP	Z		45	25											
			SCS	Z		48	59											

CNZ	P	Z	05	37	49		14	0.43			
	SCP	Z		45	26						
	SCS	Z		49	01						
	E	Z	06	13	18						
	E	Z		21	07						
TRZ	P	Z	05	37	49.3		14				
	I	Z			55.0						
	S	Z		40	13						
	SCP	Z		45	28						
	SCS	Z		49	10						
TNZ	P	Z	05	37	55		14				
	I	Z		38	00.4						
	S	Z		40	30						
	SCP	Z		45	26.5						
AFI	IP	ZNE	05	37	50.2U		14				
	S	ZNE		39	40						
MNG	P	Z	05	38	01		15	0.46			6.9
	I	Z			06.0						
	S	Z		40	38						
	ISCP	Z		45	24.7						
	SCS	Z		49	00						
	E	Z	06	13	22						
	E	Z		14	13.5						
	E	Z		21	09						
WEL	P	ZNE	05	38	08.8		16	0.85			7.3
	I	ZNE			12.7						
	I	ZNE			39.6						
	S	ZNE		40	50				33	12	5.9
	L	ZNE		41							
	SCP	ZNE		45	30.1						
	E	Z		46	36.7						
	E	Z		47	28						
	ISCS	ZNE		49	03.8						
	E(*8SCS)	NE		50	22						
COB	P	Z	05	38	14.8		16	0.62			7.1
	S	Z		41	04						
	ESCP	Z		45	29						
	SCS	Z		49	02						
	E	Z	06	13	25						
	E	Z		21	14						
KAI	EP	X	05	38	33		18				
	S	X		41	35						
CIZ	P	ZNE	05	38	39.3		19				
	S	ZNE		42	18						
RAR	P	ZNE	05	38	45		20				
	S	ZNE		40	44						
	L	ZNE		41	56						
	T	ZNE		54	10						
MJZ	P	ZNE	05	38	46		20	0.33			6.8
	I	ZNE			51.3						
	ES	ZNE		41	59						
	SCP	ZNE		45	34.5						
	SCS	ZNE		49	18.0						
	E	ZNE	06	12	47						
	E	ZNE		21	34						
OMZ	P	Z	05	38	58		21				
	S	Z		42	25						
MSZ	EP	Z	05	39	00		21				
	I	Z			06.3						
	E	Z		40	21						
	S	Z		42	25						
	SCP	Z		45	41.5						
	SCS	Z		49	25						
	E	Z	06	12	44						
	E	Z		21	42						
ROX	P	ZNE	05	39	06.8		21	0.06			6.5
	S	ZNE		42	30						
	SCP	Z		45	45						

	MNW	EP	Z	05	39	09		22	0.23		6.7
		(ePP)	Z		40	44					
		S	Z		42	41					
		SCP	Z		45	45					
		SCS	Z		49	27					
		E	Z	06	12	39					
	WPZ	EP	Z	05	39	15		23			
		E	Z		40	22					
		SCP	Z		45	46					
	CBZ	P	Z	05	40	06		28			
		ePP	Z		41	33.5					
	SBA	IP	ZNE	05	43	20	J	53	-0.33		6.1
		EePP	ZNE		45	00					
		EPP	ZNE			44					
		EeSPP	ZNE		48	05					
		ES	ZNE		50	14					
		ESCS	ZNE		52	20					
		EeSS	ZNE		53	22					
		ESS	ZNE		54	15					
		EeSSCS	ZNE		56	48					
	FELT RAOUL ISLAND										
MAR 30	RAO	P	Z	05	51	13.8					
		I	Z			16.9					
		S	Z		52	04					
	KRP	P	Z	05	52	42			-1.22		
	GNZ	P	ZNE	05	52	46					
		S	ZNE		55	00					
	CNZ	EP	Z	05	52	55					
	COB	P	Z	05	53	18.4					
		ES	Z		56	04					
	MJZ	P	Z	05	53	53					
MAR 30	RAO	P	Z	06	14	56					
		E	Z			58.6					
		ES	Z		15	58					
	NDF	P	Z	06	15	38.2					
		(S)	Z		17	23.5					
	KRP	P	Z	06	16	21.5					
	GNZ	P	Z	06	16	24					
		ES	ZNE		18	38					
	CNZ	EP	Z	06	16	34					
	MNG	P	Z	06	16	45					
		ES	Z		19	21					
	COB	P	Z	06	16	59					
MAR 30	RAO	P	Z	06	17	40					
		I	Z			42.6					
	NDF	IP	Z	06	18	19.1D					
	KRP	P	ZNE	06	19	07.1			-1.15		
	GNZ	P	Z	06	19	11					
		S	ZNE		21	30					
	MNG	S	Z	06	22	07					
	COB	ES	Z	06	22	35					
MAR 30	RAO	P	Z	06	38	02.5					
		E	Z			15.0					
	KRP	P	Z	06	39	31					
	MNG	P	Z	06	39	53					
		ES	Z		42	30					

	H	M	S	EPICENTRE		DEPTH	MAG									
MAR 30	06	47	28.8	26.0S	179.6E	497KM	4.7	S. OF FIJI								
						H	M	S	DIR	DIS	LGA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P	Z		06	48	42.4		4								
			E	Z				44.4										
			S	Z			49	50										
	NDF		P	Z		06	49	23.5		8								

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        KRP   P       Z    06 50 17.5       12 -1.22
        GNZ   EP      Z    06 50 20         13
              ES      ZNE  52 34
        MNG   EP      Z    06 50 32         15
               S      Z    53 09.5
        COB   EP      Z    06 50 48         16
              ES      Z    53 39

         H  M  S      EPICENTRE    DEPTH  MAG
MAR 30  07 54 06.9   25.8S 179.7E 488KM  5.2  S. OF FIJI
                      H  M  S  DIR DIS LGAZT  AZ TZ  AN TN  AE TE  MAG
        RAD   P       Z    07 05 26          4
              I       Z       28.8
              (S)     Z       06 34
        NDF   IP      Z    07 06 06.9U       8
        CRZ   P       ZNE  07 06 33          11
        GBZ   P       Z    07 06 38          11
        ECZ   P       Z    07 06 49          12
              ES      Z    08 51
        KRP   P       ZNE  07 06 54.3        13 -0.54
              I       ZNE     55.9
               S      ZNE  09 13
        GNZ   EP      ZNE  07 06 55          13 -0.31
               S      ZNE  09 13
        TUA   EP      Z    07 06 57          13
              ES      Z    09 18
        CNZ   P       Z    07 07 05.5        14 -0.94
              ES      Z    09 29
        TRZ   EP      Z    07 07 06          14
              ES      Z    09 30
        TNZ   P       Z    07 07 11          14
        AFI   P       ZNE  07 07 06          14
               S      ZNE  09 30
        MNG   P       Z    07 07 17.0        15 -0.81                  5.7
              ES      Z    09 50
              ESCP    Z    14 41
        WEL   P       ZNE  07 07 25          16 -0.65                  5.8
               S      ZNE  10 09
        COB   P       Z    07 07 30          16
               S      Z    10 21
        KAI   ES      X    07 10 48          19
        MJZ   P       ZNE  07 08 02          20 -1.13                  5.4
               S      ZNE  11 18
              ESCP    Z    14 49
        MSZ   EP      Z    07 08 17          21
              ES      Z    11 39
        MNW   P       Z    07 07 08 26.3     22

         H  M  S      EPICENTRE    DEPTH  MAG
MAR 30  07 23 55.8   25.7S 179.6E 477KM  4.7  S. OF FIJI
                      H  M  S  DIR DIS LGAZT  AZ TZ  AN TN  AE TE  MAG
        RAD   IP      Z    07 25 15.9U       4
              I       Z       18.3
              ES      Z    26 23
        NDF   P       Z    07 25 55.7        8
        KRP   P       Z    07 26 44          13 -1.28
        GNZ   EP      Z    07 26 48          13
               S      ZNE  29 05
        MNG   EP      Z    07 27 06          15
              ES      Z    29 48
               SCP    Z    34 13
        COB   EP      Z    07 27 21          16
              ES      Z    30 14

         H  M  S      EPICENTRE    DEPTH  MAG
MAR 30  08 52 11.1   35.6N 140.2E  66KM  3.7  E. OF HONSHU
                      H  M  S  DIR DIS LGAZT  AZ TZ  AN TN  AE TE  MAG
        KRP   EPPP    Z    08 14 16.4        80
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MAR 30	NDF	P	Z	08	08	38.8											
	KRP	P	Z	08	09	24.2											
	GNZ	ES	NE	08	11	47											
	MNG	EP	Z	08	09	48											
		ES	Z		12	25											

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 30	11	50	20.1	29.8S		71.4W	72KM	5.6	CHILE								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	11	11	09		67								
	RAR	EP		Z	11	12	12		78								
		L		ZNE		36											
	MNG	P		Z	11	12	56.5		87								
	CNZ	P		Z	11	13	00.6		87	-0.69							6.5
		*PP		Z			15										
		E		Z			34										
	MJZ	P		ZNE	11	13	00.9		87								
		*PP		ZNE			15										
	COB	EP		Z	11	13	03		88								
		*PP		Z			19										
	KRP	P		ZNE	11	13	04		88	-0.71							6.5
	MSZ	P		Z	11	13	05		88								
		*PP		Z			22										

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 30	14	54	09.8	25.9S		179.7E	500KM	4.7	S. OF FIJI								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P		Z	14	55	29		4								
		E		Z			30.7										
		S		Z		56	36										
	NDF	EP		Z	14	56	09.5		8								
	CRZ	P		ZNE	14	56	35		10								
	ECZ	ES		Z	14	59	05		12								
	KRP	P		ZNE	14	56	56.2		12	-1.07							
		ES		ZNE		59	18										
	GNZ	P		ZNE	14	56	58		13								
		S		ZNE		59	18										
	TUA	ES		Z	14	59	28		13								
	TRZ	EP		Z	14	57	07.5		14								
		ES		Z		59	38										
	AFI	P		Z	14	57	08		14								
		S		ZNE		59	31										
	MNG	P		Z	14	57	19		15	-1.26							5.3
		S		Z		59	57										
	WEL	P		Z	14	57	29		16								
		S		ZNE	15	00	12										
	COB	P		Z	14	57	33.0		16								
		S		Z	15	00	22										
	MJZ	EP		ZNE	14	58	06		20								
		S		ZNE	15	01	24										
	MSZ	EP		Z	14	58	21		21								
		ES		Z	15	01	44										

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 30	15	58	02.6	25.7S		179.4E	500KM	5.0	S. OF FIJI								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	IP		Z	15	59	20.9U		4								
		I		Z			23.0										
		S		Z	16	00	30										
	NDF	P		Z	16	00	01.3		8								
		ES		Z		01	39.5										
	CRZ	P		ZNE	16	00	26.7U		10	-0.34							
	GBZ	P		Z	16	00	31		11								
	AUC	P		Z	16	00	40.2		12								
	ECZ	P		Z	16	00	42		12								
		S		Z		02	53										
	KRP	IP		ZNE	16	00	47.5USE		13	-0.26							

		I	ZNE			49.5			
		S	ZNE		03	04			
	GNZ	P	ZNE	16	00	48.6	13		
		I	ZNE			54.0			
		S	ZNE		03	05			
	TUA	P	Z	16	00	49	13		
		ES	Z		03	10			
	CNZ	P	Z	16	00	58.0	14		
		ES	Z		03	28			
	TRZ	EP	Z	16	00	57.5	14		
		S	Z		03	25			
	TNZ	P	Z	16	00	54	14		
	AFI	P	ZNE	16	01	02	14		
		S	ZNE		03	27			
	MNQ	P	Z	16	01	09	15	-0.37	6.1
		I	Z			14.3			
		S	Z		03	46			
		SCP	Z		08	35			
	WEL	P	ZNE	16	01	18.6	16	-0.20	6.3
		S	ZNE		03	57			
	COB	P	Z	16	01	23	16		
		ES	Z		04	12			
	KAI	EP	X	16	01	42	18		
		ES	X		04	39			
	MJZ	P	ZNE	16	01	56	20	-0.90	5.6
		ES	ZNE		05	11			
		ESCP	Z		08	44			
	OMZ	P	Z	16	02	05.5	21		
	MSZ	P	Z	16	02	11	21	-0.93	5.5
		E	Z			15			
		ES	Z		05	32			
	MNW	P	Z	16	02	19	22	-0.96	5.5
		(+SP)	Z		03	33			
MAR 30	KRP	P	ZN	18	26	15			
	GNZ	P	Z	18	26	29.3			
	MNQ	P	Z	18	26	43			
	MJZ	P	ZNE	18	27	17			
	MSZ	P	Z	18	27	28			
MAR 30	RAO	IP	Z	19	50	40.7			
		S	Z		51	04			
	NDF	EP	Z	19	52	58			
	GNZ	S	ZNE	19	54	00			
	KRP	EP	ZNE	19	52	25			
	MNQ	P	Z	19	52	49			
	WEL	EP	Z	19	53	01			
		S	ZNE		55	14			
	MJZ	S	ZNE	19	56	41			
	FELT	RAOUL ISLAND							
MAR 30	RAO	P	Z	21	57	43			
		I	Z			46.1			
		ES	Z		58	55			
	NDF	P	Z	21	58	23.9			
	KRP	P	Z	21	59	09			
	MNQ	EP	Z	21	59	35			
		ES	Z	22	02	09			
	WEL	ES	ZNE	22	02	23			
	COB	P	Z	21	59	47			
		ES	Z	22	02	32			
MAR 30	RAO	EP	Z	22	09	53			
		E	Z			56			
	NDF	EP	Z	22	10	34			
	KRP	EP	Z	22	11	19			
	MNQ	EP	Z	22	11	43			
		ES	Z		14	16			

	COB	EP	Z	22	11	55											
MAR 30	RAO	P	Z	22	50	55											
		ES	Z		52	00											
	NDF	EP	Z	22	51	38											
	KRP	P	Z	22	52	17											
	MNG	P	Z	22	52	39											
		ES	Z		55	15											
	COB	P	Z	22	52	51.5											
		ES	Z		55	39											
MAR 30	RAO	P	Z	22	55	21.1											
		ES	Z		56	33											
	MNG	EP	Z	22	57	09											

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 30	23	16	03.3	6.2S		146.3E	116KM	4.6	NEW GUINEA								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	ZNE	23	23	40.6		41	-0.79							6.0
	COB		P	Z	23	23	46.3		42	-0.59							6.2
	CNZ		P	Z	23	23	48.0		42	-0.89							5.8
	MSZ		P	Z	23	23	51.8		43								
	MNG		IP	Z	23	23	54.3U		43	-0.88							6.0
	GNZ		P	ZNE	23	23	55.8		43	-0.42							6.4
	MJZ		P	ZNE	23	23	56		43	-1.18							5.7
MAR 31	MSZ		P	Z	00	56	05.2			-1.09							
	COB		EP	Z	00	56	12										
	MJZ		P	ZNE	00	56	13.0			-1.23							
	KRP		P	Z	00	56	16.7										
	WEL		EP	Z	00	56	20										
	MNG		EP	Z	00	56	22.5										
	GNZ		P	Z	00	56	30										

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 31	00	53	44.4	5.3S		145.3E	54KM	5.3	NEW GUINEA								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	01	01	40.2		43	-1.26							5.5
	CNZ		P	Z	01	01	46		43	-1.15							5.7
	MSZ		EP	Z	01	01	50		44								
	MNG		P	Z	01	01	53		44								
	MJZ		P	ZNE	01	01	57		44	-1.39							5.5
MAR 31	RAO		P	Z	05	58	22.7										
			S	Z			51.3										
	MNG		E(P)	Z	06	01	13										

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 31	14	06	04.1	30.2N		140.2E	133KM	5.2	S. OF HONSHU								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		EP?	Z	14	15	57		60								
	KRP		P	ZNE	14	17	25.2		75	-1.00							5.8
			E	Z		18	15										
	CNZ		P	Z	14	17	41.2		76	-1.02							5.8
			(*PP)	Z		18	17.5										
	COB		P	Z	14	17	43.6		77	-0.76							6.1
			(*PP)	Z		18	22										
	MNG		P	Z	14	17	46.7		78								
	WEL		P	Z	14	17	48		78	-0.85							6.0
	MSZ		P	Z	14	17	53.3		79	-0.94							5.9
	MJZ		P	ZNE	14	17	53.8		79	-1.13							5.7

	H	M	S	EPICENTRE			DEPTH	MAG									
MAR 31	15	36	53.5	55.3S		29.1W	33KM	5.5	SOUTH SANDWICH IS								
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA		EP	ZNE	15	45	24		47								
			ES	ZNE		52	18										
			ELQ	ZNE		56	10										

	MSZ	P	Z	15	48	59			79	-0.94						6.2
	COB	EP	Z	15	49	11			82							
	MNG	EP	Z	15	49	15			82							
	CNZ	P	Z	15	49	20			84	-1.20						6.0
	KRP	P	Z	15	49	29.8			85							

	H	M	S	EPICENTRE			DEPTH	MAG								
MAR 31	20	56	56.6	25.7S		179.7E	480KM	5.1	S. OF FIJI IS							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P		Z	20	58	14.9		4							
		I		Z			17.9									
		S		Z		59	28									
	NDF	EP		Z	20	58	56		8							
	CRZ	EP		ZN	20	59	25		11							
	GBZ	P		Z	20	59	28		11							
	ECZ	P		Z	20	59	39		12							
		S		Z	21	01	51									
	KRP	P		ZNE	20	59	44		13							
		E		Z	21	00	26									
		S		ZNE		02	05									
	GNZ	P		ZNE	20	59	46.7		13							
		I		ZNE			50.0									
		S		ZNE	21	02	05									
	TUA	ES		Z	21	02	09		13							
	CNZ	P		Z	21	00	02.7		14							
		S		Z		02	27									
	AFI	P		ZNE	20	59	56		14							
		S		ZNE	21	02	20									
	MNG	P		Z	21	00	08.2		15							
		S		Z		02	48									
		SCP		Z		07	32									
	WEL	EP		Z	21	00	17		16	-0.96						5.6
		S		ZNE		03	02									
	COB	P		Z	21	00	21.5		16	-1.01						5.5
		S		Z		03	10									
	KAI	ES		X	21	03	43		18							
	MJZ	P		ZNE	21	00	54.5		20							
		ES		ZNE		04	06									
	MSZ	P		Z	21	01	10		21							

MNW TIMING UNCERTAIN FROM APRIL 01 TO 05

	H	M	S	EPICENTRE			DEPTH	MAG								
APR 01	02	26	23.9	49.3S		163.9E	33KM	5.3	AUCKLAND IS							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P		Z	02	27	44.3		9							
		S		Z		28	45									
	MJZ	P		ZNE	02	28	03		7							
		E		ZNE			15									
		E		ZNE			20									
	COB	P		Z	02	28	50		10							
	WEL	EP		Z	02	29	04		11							
		ES		NE		31	02									
	MNG	P		Z	02	29	13		12							
		E		Z			21									
	KRP	EP		Z	02	29	43		14							
	SBA	EP		ZNE	02	32	20		29							

APR 01	MSZ	P		Z	06	18	14.0									

APR 01	RAO	EP		Z	10	40	37									
		S		Z		41	19									
	MNG	P		Z	10	43	13									

	H	M	S	EPICENTRE	DEPTH	MAG	
APR 01	11	00	52.4	21.4S 176.8W	216KM	5.2	FIJI

			H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z	11	02	30.1	U		7							
	RAO	EP	Z	11	02	47			8							
		ES	Z		04	13										
	AFI	P	ZNE	11	02	49			9							
		S	ZNE		04	17										
	KRP	P	Z	11	04	47.2			18							
	GNZ	P	ZNE	11	04	47.7			18							
		S	ZNE		08	54										
	TRZ	P	Z	11	04	58			19							
	MNG	P	Z	11	05	09			20							
		S	Z		08	46										
	WEL	EP	Z	11	05	20			21							
	COB	EP	Z	11	05	24			22							
	MJZ	P	Z	11	05	58			25							
	SBA	EP	ZNE	11	10	20.3			57							

	H	M	S	EPICENTRE	DEPTH	MAG	
APR 01	13	25	21.2	6.0S 154.4E	58KM	4.8	SOLOMON IS

			H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	P	ZNE	13	32	43			39							
	MNG	P	Z	13	32	45.3			39							
APR 01	SBA	EP	ZNE	14	01	11										
		EL	ZNE		04	30										

	H	M	S	EPICENTRE	DEPTH	MAG	
APR 01	15	42	00.9	21.5S 173.1W	33KM	4.7	TONGA

			H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	15	43	46			8							
		S	ZNE		45	06										
		T	ZNE		51	28										
	RAO	EP	Z	15	44	00			9							
		ES	Z		45	37.5										
	NDF	EP	Z	15	44	10.5			10							
	MNG	P	Z	15	46	42			21							
	COB	P	Z	15	46	56			23							
	MSZ	EP	Z	15	47	49.0			28							
APR 01	WPZ	P	Z	23	14	17										
		S	Z		15	05										
	CBZ	P	Z	23	14	18.5										
		S	Z		15	04										
	MNW	EP	Z	23	14	19										
		S	Z		15	13										
	OHZ	P	Z	23	14	47.0										
	MJZ	EP	Z	23	14	55										
		S	ZNE		16	17.0										
	COB	P	Z	23	15	41.0										
		S	Z		17	34										
	MNG	EP	Z	23	16	02.5										
	CIZ	EP	ZNE	23	16	37										
APR 01	MNW	EP	Z	23	18	57										
		ES	Z		19	49										

	H	M	S	EPICENTRE	DEPTH	MAG	
APR 01	23	19	50.4	9.4S 158.5E	30KM	5.3	SOLOMON IS

			H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	23	24	29			20							
	MNG	EP	Z	23	26	39.0			35							

		H	M	S		EPICENTRE			DEPTH	MAG									
APR 01		23	51	23.0		49.5S 163.7E			33KM	6.0	AUCKLAND IS								
							H	M	S	DIR	DIS	LG	AZT	AZ	TZ	AN	TN	AE	TE	MAG
	WPZ		P		Z		23	52	27			4								
			S		Z			53	15											
	CBZ		P		Z		23	52	24.7			5								
			I		Z				27.4											
			IS		Z			53	14.0											
	MNW		EP		Z		23	52	25.0			5								
			I		Z				27.0											
	ROX		P		Z		23	52	40.5			6								
	OMZ		EP		Z		23	52	54			7								
			E		Z			53	49											
			ES		Z			54	27											
	MJZ		EP		ZNE		23	52	59			7								
	GPZ		EP		N		23	53	19			8								
			S		N			54	54											
	KAI		EP		N		23	53	27			9								
			S		N			55	03											
	COB		EP		Z		23	53	47			11								
			S		Z			55	44											
	WEL		EP		ZNE		23	54	00			11								
			S		ZNE			56	01											
	MNG		EP		Z		23	54	08			12								
			S		Z			56	36											
	TNZ		EP		Z		23	54	22			13								
			E		Z			55	17											
			S		Z			56	51											
	CNZ		EP		Z		23	54	25			13								
			S		Z			56	59											
	TRZ		EP		Z		23	54	33			14								
	KRP		EP		ZNE		23	54	38			14								
			E		ZN			56	26											
			S		ZNE			57	15											
	TUA		EP		Z		23	54	43			14								
			E		Z			55	39											
			ES		Z			57	24											
	CIZ		EP		ZNE		23	54	44			15								
			S		ZNE			57	20											
	GNZ		EP		ZNE		23	54	47			15								
			S		ZNE			57	32											
	ECZ		EP		Z		23	54	58			16								
	CRZ		EP		ZNE		23	55	10			16								
	SBA		EP		ZNE		23	57	19			28								
			ES		ZNE		24	02	10											
			ELQ		ZNE			03	40											
			ELR		ZNE			04	40											
	NDF		EP		Z		23	58	01.6			34								
	RAR		EP		ZNE		23	58	59			40			15	10				6.7
			EPP		ZNE		24	00	32						17	11				6.7
			ES		ZN			05	22											
			EL		ZNE			08	13						40	20	42	18		
	AFI		IP		ZN		23	59	03.3	UN		41	0.77							7.5
			IPP		ZN		24	00	41											
			S		ZNE			05	17											
			SS		NE			08	16											
			LR		Z			11												
APR 02	WPZ		EP?		Z		00	15	14											
			ES		Z			16	02											
	MNW		P		Z		00	15	17.0											
			ES		Z			16	08											
	OMZ		P		Z		00	15	44											
			S		Z			16	49											
	MJZ		P		ZNE		00	15	59											
			ES		ZNE			17	11											
	GPZ		ES		N		00	17	41											

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        COB   EP       Z    00 16 36
        MNG    P       Z    00 17 01

         H  M  S        EPICENTRE     DEPTH   MAG
APR 02  00 17 43,8    49,6S 164,2E    33KM    5,9  AUCKLAND IS
                                 H  M  S   DIR DIS LG AZT  AZ TZ  AN TN  AE TE  MAG
        WPZ    P       Z    00 18 46                4
               S       Z       19 34
        CBZ   IP       Z    00 18 49,5              4
               S       Z       19 35,3
        MNW    P       Z    00 18 49,0              4
              ES       Z       19 43
        OMZ    P       Z    00 19 16                5
              ES       Z       20 22
        MJZ   EP       ZNE  00 19 26                7
              ES       ZNE     20 32
        GPZ    P       N    00 19 42                8
              ES       N       21 15
        COB    P       Z    00 20 10,5              10
               S       Z       22 04
        WEL    P       ZNE  00 20 23,0              11
               S       ZNE     22 20
        MNG   EP       Z    00 20 33,0              12
        KRP    P       ZNE  00 21 02,6              14
        CIZ    P       ZNE  00 21 06                14
              ES       ZNE     23 35
        SBA   EP       ZNE  00 23 39,5              25
        NDF    P       Z    00 24 23,2              34
        AFI   EP       Z    00 25 23                41

APR 02  MNW    P       Z    00 27 06
              ES       Z       59
        OMZ    P       Z    00 27 34
              ES       Z       28 38
        MJZ   EP       Z    00 27 52
        GPZ   ES       N    00 29 28
        COB   EP       Z    00 28 26
        MNG   EP       Z    00 28 50

APR 02  CBZ    P       Z    00 30 16,5
               S       Z       31 03
        WPZ    S       Z    00 31 04
        MNW    P       Z    00 30 17
               S       Z       31 12
        OMZ   EP       Z    00 30 45
              ES       Z       31 50
        MJZ    P       ZNE  00 31 01
        GPZ    S       N    00 32 39
        COB    P       Z    00 31 38
               S       Z       33 31
        MNG   EP       Z    00 32 03
              ES       Z       34 10
        CIZ   EP       Z    00 32 37

APR 02  WPZ   EP       Z    00 36 37
              ES       Z       37 27
        MNW    P       Z    00 36 40,0
              ES       Z       37 35
        OMZ    P       Z    00 37 08
               S       Z       38 13
        MJZ    P       ZNE  00 37 25
               S       ZNE     38 40
        GPZ   ES       N    00 39 10
        COB   EP       Z    00 38 00
              ES       Z       39 56
        MNG   EP       Z    00 38 24
              ES       Z       40 33
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          H  M  S       EPICENTRE    DEPTH  MAG
APR 02  00 38 59.6    49.6S 164.2E   33KM  5.5  AUCKLAND IS
                                 H  M  S   DIR DIS LG AZT  AZ TZ  AN TN  AE TE  MAG
          WPZ    P          Z   00 40 03                      4
                 S          Z      51
          CBZ    P          Z   00 40 04                      4
                 S          Z      53.5
          MNW    P          Z   00 40 04.5                    4
                 ES         Z      57
          ROX    P          Z   00 40 16                      5
          OMZ    P          Z   00 40 32                      6
          MJZ    EP         ZNE 00 40 37                      7
                 E          ZNE    55
          GPZ    P          N   00 40 59                      8
                 E(S)       N      42 22
          KAI    EP         X   00 41 08                      9
                 ES         X      42 38
          COB    P          Z   00 41 25                     10
                 S          Z      43 21
                 E          Z      44 14
                 E          Z      52
          WEL    P          ZNE 00 41 39                     11
                 S          ZNE    43 35
                 E          Z      44 35
          MNG    EP         Z   00 41 47                     12
                 ES         Z      43 01
                 SS         Z      36
                 SBS        Z      44 13
          CNZ    P          Z   00 42 06                     13
          TRZ    EP         Z   00 42 11                     13
          KRP    P          ZNE 00 42 17                     14
                 S          ZNE    44 51
                 SSS        E      45 32
          TUA    EP         Z   00 42 20                     14
          CIZ    EP         ZNE 00 42 22                     14
                 ES         ZNE    44 53
          GNZ    EP         Z   00 42 26                     15
          ORZ    P          Z   00 42 49                     16
          SBA    EP         ZNE 00 44 55.5                   28
          VDF    P          Z   00 45 39.5                   34
          RAR    P          Z   00 46 37                     40
          API    P          Z   00 46 40                     41

APR 02    MNW    P          Z   00 50 37
                 ES         Z      51 31

APR 02    WPZ    S          Z   00 53 03
          MNW    P          Z   00 52 16.7
                 ES         Z      53 10
          OMZ    EP         Z   00 52 42
                 ES         Z      53 50
          MJZ    EP?        ZNE 00 53 01
                 ES         ZNE    54 11
          GPZ    ES?        N   00 54 36
          COB    EP         Z   00 53 36
                 ES         Z      55 29
          MNG    EP         Z   00 54 00

APR 02    WPZ    EP         Z   01 02 41
                 ES         Z      03 28
          MNW    P          Z   01 02 43.5
                 ES         Z      03 38
          CBZ    P          Z   01 02 44
                 S          Z      03 30
          OMZ    P          Z   01 03 12.2
                 ES         Z      04 19
          MJZ    EP         ZNE 01 03 27
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		ES	ZNE		04	39	
	GPZ	ES	N	01	05	07	
	COB	EP	Z	01	04	06	
		ES	Z		05	57	
	MNG	EP	Z	01	04	29	
APR 02	MNW	EP	Z	01	08	55	
		ES	Z		09	49	
	COB	EP	Z	01	10	16	
APR 02	MNW	EP	Z	01	11	19	
		ES	Z		12	12	
	OMZ	EP	Z	01	11	50	
	MJZ	EP	ZNE	01	12	05	
	COB	EP	Z	01	12	41	
APR 02	MNW	P	Z	01	15	02	
		ES	Z			57	
APR 02	MNW	P	Z	01	18	12	
	MJZ	EP	ZNE	01	18	55	
	COB	P	Z	01	19	33	
APR 02	WPZ	ES	Z	01	20	05	
	MNW	P	Z	01	19	21	
		ES	Z		20	16	
	OMZ	P	Z	01	19	48.5	
	GPZ	EP	N	01	20	14	
	COB	P	Z	01	20	42	
		ES	Z		22	35	
	MNG	EP	Z	01	21	05	
APR 02	MNW	P	Z	01	30	40.5	
	OMZ	EP	Z	01	31	13	
APR 02	WPZ	ES	Z	01	31	58	
	MNW	EP	Z	01	31	10	
		ES	Z		32	07	
	OMZ	EP	Z	01	31	38	
	COB	EP	Z	01	32	32	
	MNG	EP	Z	01	32	56	
APR 02	MNW	EP	Z	01	33	36	
		ES	Z		34	31	
	OMZ	EP	Z	01	34	04	
APR 02	MNW	EP	Z	01	44	38	
APR 02	WPZ	ES	Z	01	53	15	
	MNW	P	Z	01	52	28.0	
		S	Z		53	23.0	
	OMZ	P	Z	01	52	55.0	
	MJZ	ES	ZNE	01	54	22	
	COB	EP	Z	01	53	48	
		ES	Z		55	41	
	MNG	EP	Z	01	54	11	
		ES	Z		56	07	
APR 02	MNW	P	Z	02	01	27.0	
		ES	Z		02	24	
	OMZ	EP	Z	02	01	55	
	MNG	E(S)	Z	02	04	45	
APR 02	MNW	EP	Z	02	07	21	
APR 02	MNW	EP	Z	02	09	20	
		ES	Z		10	17	

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APR 02  MNW    P        Z    02 15 55
                S        Z       16 47
        OMZ    EP        Z    02 16 22
        MJZ    EP        ZNE  02 16 40
        COB    EP        Z    02 17 15
        MNQ    EP        Z    02 17 42

APR 02  MNW    P        Z    02 20 59
                S        Z       21 56
        OMZ    P         Z    02 21 28
        MJZ    EP        ZNE  02 21 46
        MNQ    EP        Z    02 22 43

APR 02  MNW    P        Z    02 28 07
                S        Z       29 01

APR 02  MNW    P        Z    02 54 00
               (S)       Z       51

APR 02  WPZ    S        Z    03 04 19
        CBZ    P        Z    03 03 32
                S        Z       04 20
        MNW    P        Z    03 03 33.5
                S        Z       04 25
        OMZ    P        Z    03 04 00
        MJZ    EP       ZNE  03 04 18
        COB    EP       Z    03 04 55
               ES        Z       06 47
        MNQ    EP       Z    03 05 24

APR 02  WPZ    S        Z    03 09 57

APR 02  GPZ   E(S)       N    03 05 57

APR 02  CBZ    P        Z    03 09 13.5
                S        Z       10 01
        MNW    P        Z    03 09 14.8
                S        Z       10 07
        OMZ    P        Z    03 09 42
               ES        Z       10 48
        MJZ    P        ZNE  03 09 59
              E(S)      NE       11 25
        COB    EP       Z    03 10 36
        MNQ    EP       Z    03 10 59

          H  M  S       EPICENTRE     DEPTH   MAG
APR 02   03 10 02.7    49.7S 164.1E   33KM
                                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CBZ    P        Z    03 11 07.2          4
                S        Z       52
        WPZ    EP       Z    03 11 05            4
                S        Z       51
        MNW    P        Z    03 11 08            5
               ES        Z       12 01
        ROX    P        Z    03 11 22.0          6
                S        Z       12 33
        OMZ    P        Z    03 11 36.3          7
                S        Z       12 43
               I         Z       13 01
        MJZ    P        ZNE  03 11 53            7
               I         ZNE     12 56
                S        ZNE     13 05
        GPZ    P        N    03 12 02.0          8
                S        N       13 32
        KAI    EP       X    03 12 17            9
               ES        X       13 43
        COB    P        Z    03 12 28.4         11
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                S       Z          14 21
        WEL     EP      ZNE 03 12 40        11
                S       ZNE        14 38
        MNG     EP      Z   03 12 49        12
                E       Z          13 46.5
                ES      Z          15 03
                E       Z          16 30
        ONZ     P       Z   03 13 08        13
        KRP     P       ZNE 03 13 20.5      14
                S       NE         16 03
        CIZ     EP      ZNE 03 13 26        14
                S       ZNE        15 58
        CRZ     EP      Z   03 13 52        17

APR 02  MNW     EP      Z   03 20 12
                ES      Z          21 05
        OMZ     EP      Z   03 20 41
        COB     EP      Z   03 21 34

APR 02  MNW     P       Z   03 48 14.5
                ES      Z          49 06
        OMZ     EP      Z   03 48 45
        MJZ     EP      ZNE 03 48 59
        COB     P       Z   03 49 36
                ES      Z          51 30
        MNG     EP      Z   03 50 00

APR 02  WPZ     ES?     Z   03 54 22
        MNW     P       Z   03 53 36
                ES      Z          54 32
        OMZ     EP      Z   03 54 03
        MJZ     EP      ZNE 03 54 21
        COB     EP      Z   03 54 56

APR 02  WPZ     ES      Z   04 00 21
        CBZ     P       Z   03 59 35
                S       Z   04 00 24
        MNW     P       Z   03 59 35
                S       Z   04 00 28
        ROX     P       Z   03 59 50
                S       Z   04 00 50
        OMZ     P       Z   04 00 02
                ES      Z          01 15
        MJZ     EP      ZNE 04 00 20
                (S)     ZNE        01 44
        COB     P       Z   04 00 56
                ES      Z          02 49
        MNG     EP      Z   04 01 20

APR 02  MNW     P       Z   04 13 24
                ES      Z          14 15
        OMZ     EP      Z   04 13 54
        MJZ     EP      ZNE 04 14 10

APR 02  AFI     EP      Z   04 22 09
                S       ZNE        57

APR 02  MNW     EP      Z   04 25 16
                ES      Z          26 09
        OMZ     EP      Z   04 25 45
        MNG     EP      Z   04 27 02

         H  M  S        EPICENTRE    DEPTH  MAG
APR 02  04 49 17.7     22.3S 171.6E  33KM   5.3  LOYALTY IS
                                H  M  S  DIP DIS LG AAT  AZ TZ  AN TN  AE TE  MAG
        NDF     P       Z   04 31 01.6      7
                EL      Z          33 12
        CRZ     P       ZNE 04 32 08        12
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	KRP	EP	ZNE	04	53	00		16
	GNZ	P	ZNE	04	53	16.5		17
		ES	NE		56	38		
	AFI	P	ZNE	04	53	23		18
		S	ZNE		56	38		
	MNG	P	Z	04	53	31.1		19
		*PP	Z			49.8		
		E	Z		54	47		
	COB	P	Z	04	53	35.2		19
	WEL	P	ZNE	04	53	38		19
		S	E		57	11		
	MJZ	P	ZNE	04	54	06.3		22
	SBA	EP	ZNE	04	58	50		56
		ELR	ZNE	05	15	30		
APR 02	MNW	P	Z	04	54	12		
		ES	Z		55	05		
	OMZ	EP	Z	04	54	39		
APR 02	MNW	EP	Z	05	19	07		
		ES	Z		20	04		
APR 02	WPZ	ES	Z	05	31	48		
	MNW	P	Z	05	31	03		
		ES	Z			57		
	OMZ	P	Z	05	31	30.8		
		E(S)	Z		32	44		
	MJZ	P	ZNE	05	31	48.0		
		E(S)	ZNE		32	58		
	COB	EP	Z	05	32	24		
	MNG	EP	Z	05	32	49		
APR 02	MNW	P	Z	05	40	23		
		S	Z		41	18		
APR 02	CBZ	P	Z	05	52	59		
		S	Z		53	49.5		
	WPZ	S	Z	05	53	46		
	MNW	P	Z	05	53	00.5		
		S	Z			53		
	ROX	ES	Z	05	54	03		
	OMZ	P	Z	05	53	27.8		
	MJZ	EP	ZNE	05	53	45		
	COB	EP	Z	05	54	22		
	MNG	EP	Z	05	54	44		
APR 02	MNW	EP	Z	06	00	37		
		ES	Z		01	32		
	OMZ	EP	Z	06	01	04		
	MJZ	EP	ZNE	06	01	27		
APR 02	MNW	EP	Z	06	17	21		
		ES	Z		18	13		
	MJZ	EP	ZNE	06	18	07		
APR 02	MNW	EP	Z	06	57	20		
		E(S)	Z		58	14		
	MJZ	E(P)	ZNE	06	58	15		
APR 02	MNW	EP	Z	07	35	42		
		ES	Z		36	35		
APR 02	MNW	P	Z	08	07	12		
		S	Z		08	05		
APR 02	MNW	P	Z	08	14	28		
		S	Z		15	20		

		H	M	S	EPICENTRE	DEPTH	MAG										
APR	02	09	01	23.8	16.1S 173.1W	33KM	5.9	TONGA									
						H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
		AFI		IP		ZNE	09	01	57.1	DSW	3							
				S		ZNE		02	25									
		NDF		IP		Z	09	03	43.9	J	9							
				E		Z			54.5									
		RAR		EP		ZNE	09	04	28		14							
				I		ZNE			30.1									
				ES		NE		06	45									
				ES		ZNE			50									
		RAO		EP		Z	09	04	36		14							
				ES		Z		07	06									
		CRZ		EP		ZNE	09	06	22.5		22							
				PP		Z		07	14									
		GNZ		P		ZNE	09	06	37.5		24							
				S		ZNE		10	52									
				SCS		ZN		17	55									
		KRP		EP		ZNE	09	06	37.0		24							
				S		ZNE		11	00									
		MNG		P		Z	09	06	59.0		26							
				PP		Z		07	33									
				S		Z		11	32									
				E		Z			44.5									
		WEL		EP		ZNE	09	07	03		27							
				S		ZNE		11	49									
				LQ		E		14	00									
		COB		EP		Z	09	07	10		28							
				ES		Z		11	52									
		MJZ		EP		ZNE	09	07	42		31							
		MNW		EP		Z	09	08	04		34							
		SBA		EP		ZNE	09	11	49		63							
				ES		ZNE		20	23									
				ESCS		ZNE		21	47									
				ELQ		ZNE		27	55									
APR	02	NDF		EP?		Z	09	26	23									
				E		Z			27									
APR	02	MNW		P		Z	09	31	02.5									
				S		Z			57									
		MJZ		EP		ZNE	09	31	50									
APR	02	MNW		P		Z	10	00	14									
				S		Z		01	09									
APR	02	RAO		E(S)		Z	10	02	00									
APR	02	MNW		EP		Z	10	06	36									
				ES		Z		07	32									
		MJZ		EP		ZNE	10	07	24									
APR	02	MNW		EP		Z	10	22	34									
				ES		Z		23	28									
APR	02	MNW		P		Z	10	47	18									
				ES		Z		48	13									
APR	02	MNW		P		Z	10	56	39									
				S		Z		57	33									
		MJZ		EP		Z	10	57	25									
APR	02	AFI		P		ZNE	10	56	32									
				S		ZNE			57									
		NDF		EP		Z	10	58	22									
APR	02	MNW		P		Z	11	00	09									

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        MJZ   EP       ZNE 11 01 00
        COB   EP       Z   11 01 30

APR 02  MNW    P       Z   11 00 35.8
              ES       Z       01 33
        OMZ   EP       Z   11 01 02
        MJZ   EP       ZNE 11 01 24
        COB   EP       Z   11 01 56
        MNG  E(P)      Z   11 02 25

APR 02  CBZ    P       Z   12 46 23
               S       Z       47 09
        MNW    P       Z   12 46 25
               S       Z       47 20
        OMZ   EP       Z   12 46 52
        MJZ   EP       ZNE 12 47 10
        COB   EP       Z   12 47 46
              ES       Z       49 39
        MNG   EP       Z   12 48 09
              ES       Z       50 22

APR 02  MNW    P       Z   13 26 20
              ES       Z       27 19
        OMZ   EP       Z   13 26 52
        MJZ   EP       ZNE 13 27 06
              ES       ZNE     28 21
        COB   EP       Z   13 27 46
              ES       Z       29 40
        MNG  E(P)      Z   13 28 14

APR 02  AFI    P       ZNE 14 11 57
               S       ZNE     12 22

APR 02  MNW    P       Z   14 22 17
              ES       Z       23 09
        OMZ   EP       Z   14 22 45
        MJZ   EP       ZNE 14 23 02
              ES       ZNE     24 29
        COB   EP       Z   14 23 38

         H  M  S       EPICENTRE    DEPTH  MAG
APR 02  14 32 30.5     15.9S 172.9W  33KM  4.9  SAMOA REGION
                                H  M  S  DIR DIS LQ AT  AZ TZ  AN TN  AE TE  MAG
        AFI    P       ZNE 14 33 02          2
               S       ZNE        24
        NDF   EP       Z   14 34 51          9
        RAR   EP       ZNE 14 35 32         14
              ES       N       38 04
              ES       E          12
              EL       ZE         48
              ET       ZNE    43
        GNZ   EP       ZNE 14 37 43         24
        KRP   EP       ZNE 14 37 44.0       24
        ONZ    P       Z   14 37 57.8       25
        MNG   EP       Z   14 38 06         27
              ES       Z       42 51
        COB    P       Z   14 38 20.0       25
        SBA   EP       ZNE 14 42 56         63

APR 02  MNW   EP       Z   14 46 44
              ES       Z       47 40

APR 02  MNW    P       Z   14 50 12
               S       Z       51 06
        MJZ   EP       ZNE 14 50 56
        COB   EP       Z   14 51 33

APR 02  MNW   EP       Z   15 34 26
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          E(S)      Z       35 18

           H  M  S        EPICENTRE    DEPTH  MAG
APR 02    15 36 46.7     16.2S 172.9W   33KM  4.9  SAMOA REGION
                          H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   IP       ZNE 15 37 16.60     3
                 S       ZNE       44
          NDF    P       Z   15 39 03        9
          RAR   EP       ZNE 15 39 46       13
                ELR      ZNE    43 08
                ET       ZNE    48
          GNZ    P       ZNE 15 41 54       24
          KRP   EP       ZNE 15 41 56       24
                 PP      ZNE    42 31
                 PPP     ZNE       46
          MNG   EP       Z   15 42 18.0     26
                 ePP     Z          27.0
          COB   EP       Z   15 42 33       28
          MJZ   EP       ZNE 15 43 04       31
          SBA   EP       ZNE 15 47 06       62

APR 02    MNW   EP       Z   16 34 30
                ES       Z      35 25

APR 02    MNW    P       Z   17 24 27
                 S       Z      25 21
          OMZ   EP       Z   17 25 02
          MJZ   EP       Z   17 25 15

APR 02    AFI    P       Z   18 23 39

APR 02    MNW   EP       Z   21 20 24
                ES       Z      21 18

APR 02    MNW    P       Z   21 23 16
                BS       Z      24 09

           H  M  S        EPICENTRE    DEPTH  MAG
APR 02    21 30 05.4     13.3S 166.1E   35KM  5.4  NEW HEBRIDES
                          H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP       Z   21 32 56       12
               E(S)      Z      35 03.5
                 E       Z         12
          AFI    P       ZNE 21 34 54       22
                 S       ZNE    39 00
                LR       ZE     40 32
          CRZ   EP       ZNE 21 35 01       22
                 PP      ZNE       28
                 SS      N      39 59
          KRP   EP       ZNE 21 35 38       26
                 E       ZNE    37 24
                  SCP    Z      42 45
          GNZ   EP       ZNE 21 35 52       27
          COB    P       Z   21 36 02       28
                  SCP    Z      42 53
          MNG   EP       Z   21 35 59       28
                 PP      Z      36 29
                 PCS     Z      42 54
          MJZ   EP       ZNE 21 36 22       31
                 EPCP    Z      39 24
                  SCP    Z      43 04
          MNW   EP       Z   21 36 36       32
          RAR   EP       ZNE 21 36 47       33
                ES       ZNE    42 22
                ESS      ZNE    44 26
                ELR      ZNE    45 40
          SBA   EP       ZNE 21 40 41       65
                ES       ZNE    49 30
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              EPS      ZNE      50 06
              ESCS     ZNE         47
              ESS      ZNE      54 00
              EL       ZNE      57 00

APR 02  MNW    P       Z     22 48 11
               ES      Z        49 14

APR 03  AFI    EP      ZNE 00 31 18
               S       ZNE         45
        KRP    EP      Z   00 36 00
               E       Z           10
        MNG    EP      Z   00 36 14
        COB    P       Z   00 36 36.8

APR 03  NDF    EP      Z   02 01 56
        RAO    (P)     Z   02 02 01
        RAR    EP      ZNE 02 03 04
        MNG    E(P)    Z   02 03 47
               E(S)    Z       06 51

APR 03  NDF    IP      Z   03 38 38.00
               I       Z           42.5
               S       Z           54.5
               I       Z           56
        WTZ    EP      Z   03 43 05
        KRP    EP      ZN  03 43 09
        MNG    EP      Z   03 43 30

APR 03  WPZ    ES      Z   04 19 32
        MNW    P       Z   04 18 45
               E(S)    Z       19 40
        MJZ    EP      ZNE 04 19 34

APR 03  MNW    EP      Z   04 19 19
               S       Z       20 11

APR 03  MNW    P       Z   04 52 26
               S       Z       53 17

APR 03  MNW    P       Z   05 03 56
               S       Z       04 49
        OMZ    EP      Z   05 04 25
        MJZ    EP      ZNE 05 04 41

APR 03  MNW    P       Z   06 25 18
               S       Z       26 10

APR 03  AFI    EP      ZNE 07 07 48
               S       ZNE     08 14
               T       ZNE     10 02
        KRP    P       Z   07 12 18.5
        MNG    EP      Z   07 12 54.5
        COB    P       Z   07 13 06.3

APR 03  AFI    P       ZNE 08 18 50
               S       ZNE     19 14
               T       ZNE     21 09

          H  M  S       EPICENTRE     DEPTH  MAG
APR 03  09 36 40.7     33.5N 140.8E   59KM  4.9  S. OF HONSHU
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP EIP        ZNE 09 48 35.8      78 -0.75                          6.3
            PCP        Z           42
            E          Z           51
        CNZ EIP        Z   09 48 41.30     79
        COB    P       Z   09 48 44.5      80
        MNG    P       Z   09 48 47.1      80
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          MJZ    P        ZNE 09 48 54.0      82

APR 03    MNW    P        Z   10 45 59
                S        Z       46 53
          OMZ    EP       Z   10 46 28

           H  M  S          EPICENTRE    DEPTH  MAG
APR 03    11 43 19.3       4.8S 140.8E   40KM   5.3  WEST IRIAN
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    EP       Z   11 51 43        46
          CNZ    EP       Z   11 51 45        46
          MNG    EP       Z   11 51 49.3      47
          AFI    P        ZE  11 51 53        48

APR 03    RAO    IP       Z   11 58 05.00          0.40
                ES       Z       25
          CRZ E(P)        ZN  12 00 14
          MNG    EP       Z   12 00 53
                ES       Z       03 10

APR 03    MNW    P        Z   14 14 34
                ES       Z       15 28

           H  M  S          EPICENTRE    DEPTH  MAG
APR 03    15 40 00.4       25.8N 140.7E  144KM   4.3  VOLCANO IS.
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    (*PP)    Z   15 51 16.5      71
          COB    P        Z   15 51 19.2      73
          MNG    P        Z   15 51 18.0      74

APR 03    MNW    P        Z   15 59 26
                ES       Z   16 00 20

APR 03    RAO    IP       Z   16 48 08.30
                ES       Z       23
          WTZ    P        Z   16 49 51.0
                ES       Z       51 31
          GNZ    EP       ZNE 16 49 55
                 S        ZNE     51 34
          CRZ    P        ZNE 16 50 06.0
          KRP    EP       Z   16 50 09
          MNG    EP       Z   16 50 26
                ES       Z       52 33
          COB    EP       Z   16 51 04
                ES       Z       53 12

           H  M  S          EPICENTRE    DEPTH  MAG
APR 03    18 52 39.3       54.3N  35.1W   33KM   5.4  N. ATLANTIC OCEAN
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA   EPKP      ZNE 19 12 49.5     155

           H  M  S          EPICENTRE    DEPTH  MAG
APR 03    20 36 22.2       54.3N  35.1W   33KM   5.2  N. ATLANTIC OCEAN
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA   EPKP      ZNE 20 36 12       155

APR 03    MNW    P        Z   20 34 35
                S        Z       35 29
          MJZ E(P)        ZNE 20 35 26

APR 03    AFI    IP       ZNE 21 41 00  D
                S        ZNE     24
          MNG    EP       Z   21 47 17.0

APR 03    MNW    P        Z   23 16 41
                S        Z       17 38
          OMZ    P        Z   23 17 09
          COB    EP       Z   23 18 03
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APR 03  MNW   EP        Z   23 54 11
              ES        Z      55 03
        OMZ   EP        Z   23 54 39

APR 04  AFI   EP        Z   00 33 46
               S        ZNE    35 23
        WTZ   EP        Z   00 35 23
        KRP    P        Z   00 35 27.5
        MNG    P        Z   00 35 49.0
        COB   EP        Z   00 36 00

APR 04  MNW    P        Z   01 34 01
               S        Z      35 04
        ROX   ES        Z   01 35 18
        OMZ    P        Z   01 34 31
        MJZ   EP        ZNE 01 34 45
              ES        ZNE    36 17
        COB   EP        Z   01 35 26
        MNG E(P)        Z   01 35 50

APR 04  MNW    P        Z   02 39 40
              ES        Z      40 33

APR 04  RAO    P        Z   06 19 20.5U
              ES        Z      20 30
        WTZ   EP        Z   06 20 47
        GNZ   EP        Z   06 20 49
               S        ZNE    23 08
        KRP    P        Z   06 20 49.0
        MNG   EP        Z   06 21 11
              ES        Z      23 46
        COB   EP        Z   06 21 25

APR 04  RAO   IP        Z   09 24 58.1D
        GNZ   ES        NE  09 28 47
        KRP   EP?       Z   09 27 58.0
        MNG    P        Z   09 28 01.0
              ES        Z      29 44

APR 04  KRP    P        Z   11 59 43.0
        MNG   EP        Z   12 00 04.9
        COB    P        Z   12 00 15.0

         H  M  S        EPICENTRE    DEPTH  MAG
APR 04  13 02 06.3     16.3S 172.7W   30KM  4.7  SAMOA REGION
                                H  M   S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        AFI    P        ZNE 13 02 41          3
               S        ZNE    03 08
               T        ZNE    04 55
        WTZ   EP        Z   13 07 16          23
        GNZ   EP        ZNE 13 07 19          24
        KRP    P        ZNE 13 07 20.0        24
        MNG   EP        Z   13 07 46          26
        COB   EP        Z   13 07 57.0        28
        MJZ   EP        Z   13 08 32          31

         H  M  S        EPICENTRE    DEPTH  MAG
APR 04  15 32 48.0      1.1N 126.2E   97KM  4.8  MOLUCCAS
                                H  M   S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        COB   EP        Z   15 42 48.0          60
        MJZ    P        ZNE 15 42 48.0          60
        KRP    P        ZE  15 42 49.0          60
        MNG   EP        Z   15 42 52            61

APR 04  AFI   IP        ZNE 16 51 20  U
               S        ZNE       35
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	H	M	S	EPICENTRE	DEPTH	MAG									
APR 04	18	32	31.7	16.1S 172.6W	33KM	4.7	SAMOA REGION								
				H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	ZNE	18	33	05		2							
			S	ZNE			31									
	WTZ		P	Z	18	37	40.0		24							
	KRP		EP	Z	18	37	43.0		24							
	MNG		P	Z	18	38	09.0		27							
	COB		EP	Z	18	38	22.5		28							
	MJZ		EP	Z	18	39	15		31							

	H	M	S	EPICENTRE	DEPTH	MAG									
APR 04	22	43	06.7	7.4S 125.6E	377KM	6.6	BANDA SEA								
				H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ		EIP	ZNE	22	51	32.9	DSW	51							
			I	ZNE			43.0									
			E	ZNE			54									
			IPCP	Z		52	44.9									
			ES	NE		58	22									
	NDF		P	Z	22	51	37.8	D	51							
	MNW		EIP	Z	22	51	44	D	53							
			IPCP	Z		52	48									
			E	Z	23	29	07.0									
	MJZ		EIP	ZNE	22	51	50.0	DSW	53							
			IPCP	Z		52	51.5									
			I*PP	Z		53	24.0									
			S	NE		58	51									
			E	ZNE	23	21	28									
			E	ZNE		29	11.5									
	ROX		IPCP	Z	22	52	53.0		53							
			S	NE		59	00									
	COB		EIP	Z	22	51	51.8	D	54							
			I	Z		52	03.0									
			IPCP	Z			52.4									
			I(*PP)	Z		53	18.0									
			*SP	Z			50.5									
			S	Z		59	04									
			E	Z	23	21	45									
			PKPPKP	Z		22	42									
			E	Z		29	11									
	TNZ		EIP	Z	22	51	56.0	D	54							
			PCP	Z		52	55.0									
	OMZ		EIP	Z	22	51	55.5	D	54							
			PCP	Z		52	55.0									
	KRP		EIP	ZNE	22	51	58.2	DNW	54	0.36						6.8
			IPCP	Z		52	56.0									
			I	Z		53	33.0									
			I	Z			39.0									
			S	E		59	08									
			SCS	E	23	01	09.0									
			E	Z		21	36									
			PKPPKP	Z		22	35									
			E	Z		29	15									
	WEL		EIP	ZNE	22	52	01.0	D	55							
			IPCP	Z			58.0									
			I	Z		53	36.0									
			PCS	NE		56	57.5									
			S	ZNE		59	11									
	MNG		IP	Z	22	52	03.2	D	55							
			I	Z		53	03.5									
			ES	Z		59	11									
			E	Z	23	21	43.0									
			PKPPKP	Z		22	08.5									
			E	Z		29	19.0									
	GNZ		EIP	ZNE	22	52	11.0	DNW	56							
			I	ZNE			43.0									
			S	ZNE		59	26									

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                E        Z   23 29 19
          RAO   P        Z   22 52 16.8J     57  0.29                          6.7
                PP       Z      54 31.7
          CBZ   P        Z   22 52 17.6      57
                ePP      Z      53 07.6
          AFI   IP       ZNE 22 52 49  D     62
                PCP      Z      53 28
                S        ZNE 23 00 40
                SCS      E      03 14
                SS       ZNE    05 00
                SSS      ZNE    08 05
                PKPPKP   Z      21 49
          CIZ EIP        ZNE 22 52 50.0DS    62
          RAR  IP        ZNE 22 53 58.50     73 -0.41                          6.4
          SBA  IP        ZNE 22 54 00.80     74 -0.04                          6.8
               ES        ZNE 23 03 00

APR 05    AFI  EP        ZNE 01 50 52
               S         ZNE    51 19

APR 05    AFI   P        ZNE 04 07 03
                S        ZNE       31
                T        ZNE    09 02
          WTZ   P        Z   04 11 40.5
          KRP  EP        Z   04 11 44
          CRZ   P        Z   04 11 49.5
          MNG  EP        Z   04 12 07
          COB   P        Z   04 12 22.0
          MNW  EP        Z   04 13 21

APR 05    CRZ  EP        Z   04 38 25
          KRP  EP        Z   04 38 44.0
          MNG  EP        Z   04 39 05
          COB  EP        Z   04 39 20

           H  M  S       EPICENTRE    DEPTH  MAG
APR 05    05 37 02.9     42.0N 142.3E  69KM   5.2  HOKKAIDO
                            H  M  S  DIR DIS LQMAZT  AZ TZ  AN TN  AE TE  MAG
          KRP E(ePP)     Z   05 49 57.0      85
          MNG  EP        Z   05 49 52        88

APR 05    MNW   P        Z   06 04 38
                S        Z      05 32
          OMZ  EP        Z   06 05 12
          MJZ  EP        Z   06 05 23

           H  M  S       EPICENTRE    DEPTH  MAG
APR 05    07 33 41.4      8.2S 118.7E 150KM        FLORES REGION
                            H  M  S  DIR DIS LQMAZT  AZ TZ  AN TN  AE TE  MAG
          MJZ   P        Z   07 43 15.9      57
          COB   P        Z   07 43 22.2      58
          KRP   P        Z   07 43 29.0      59
          MNG   P        Z   07 43 32.1      60

APR 05    KRP   P        Z   07 47 28.0
          MNG  EP        Z   07 47 51
          COB   P        Z   07 48 01.0

APR 05    RAO   P        Z   12 41 35.3
                ES       Z      42 14.5
          WTZ  EP        Z   12 45 57.5
          MNG  EP        Z   12 46 57.0
          COB  EP?       Z   12 47 34

APR 05    WTZ   P        Z   15 48 34.2
                ES       Z      50 05
          GNZ  EP        Z   15 48 41
                S        ZNE    50 12
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	KRP	EP	Z	15	48	41.0											
	MNG	P	Z	15	49	04.0											
		ES	Z		51	03											
	COB	ES	Z	15	51	32											

	H	M	S	EPICENTRE			DEPTH	MAG								
APR 06	00	03	49.1	32.4N		137.6E	381KM	4.6	S. OF HONSHU								
				H	M	S	DIR	DIS	LQ	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	00	15	10.3		79									
	MNG	P	Z	00	15	21.0		81									

	H	M	S	EPICENTRE			DEPTH	MAG								
APR 06	03	21	15.6	57.9S		26.6W	135KM	5.4	SOUTH SANDWICH IS								
				H	M	S	DIR	DIS	LQ	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	03	29	13		44									
	MNW	P	Z	03	32	49.0D		76									
		PCP	Z			59											
	MJZ	P	ZNE	03	32	57.0D		77									
	WEL	P	ZNE	03	33	09.0		80									
	COB	P	Z	03	33	10.4D		80		-0.44							6.4
	MNG	P	Z	03	33	11.7D		80									
		sPP	Z			55.0											
	CNZ	EIP	Z	03	33	18.3D		81									
	GNZ	P	ZNE	03	33	21.0D		82									
	KRP	EIP	ZNE	03	33	25.0D		83									

	H	M	S	EPICENTRE			DEPTH	MAG								
APR 06	03	35	14.6	33.8N		142.2E	33KM	4.9	E. OF HONSHU								
				H	M	S	DIR	DIS	LQ	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	03	47	11.0		78									
	MNG	EP	Z	03	47	23		80									
	MJZ	EP	Z	03	47	40		82									
APR 06	WTZ	P	Z	03	51	15.0											
	MNG	EP	Z	03	51	45											
		ES	Z		53	50											

	H	M	S	EPICENTRE			DEPTH	MAG								
APR 06	05	09	03.8	22.1S		179.5W	508KM	4.9	S. OF FIJI								
				H	M	S	DIR	DIS	LQ	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	05	11	32		11									
		S	ZNE		13	32											
	CRZ	P	ZNE	05	12	05.0		14									
	KRP	P	ZNE	05	12	27.0		16									
		I	ZNE			30.0											
	MNG	P	Z	05	12	48.0		19									
		E	Z			52.2											
		S	Z		15	50.5											
	WEL	EP	Z	05	12	56		20									
	COB	P	Z	05	13	00.7		20									
APR 06	RAO	P	Z	05	25	54.5											
		ES	Z		27	18											
APR 06	AFI	P	ZNE	08	37	52											
		S	ZNE		38	20											
		T	ZNE		40												

	H	M	S	EPICENTRE			DEPTH	MAG								
APR 06	14	36	01.9	5.9S		154.4E	414KM	5.0	SOLOMON IS								
				H	M	S	DIR	DIS	LQ	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	14	42	38.0		37									
		PCP	Z		44	47.0											
	COB	P	Z	14	42	50.0		39									
	MNG	EIP	Z	14	42	54.4D		39									
		EPCP	Z		44	52											
	MJZ	P	ZNE	14	43	03.9		40									
		PCP	Z		44	57.0											

	H	M	S	EPICENTRE		DEPTH	MAG									
APR 07	00	03	08.5	53.3S	159.0E	33KM		MACQUARIE I.								
					H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ		PN	Z	00	04	26.8			6							
		I(PG)		Z			33.9										
			SN	Z		05	30.6										
			(S*)	Z			59.7										
			(SG)	Z		06	27.0										
	WPZ		EP	Z	00	05	14			9							
			ES	Z		06	58										
	MNW		EP	Z	00	05	18.0			9							
			I	Z			20.5										
			S	Z		07	14.0										
	ROX		EP	Z	00	05	31.0			10							
			I	Z			34.0										
			S	Z		07	31										
	OHZ		EP	Z	00	05	46			11							
	MJZ		EP	ZNE	00	05	54.0			12							
			E	ZNE			57.0										
			I	ZN		06	10.6										
			I	Z			20.5										
	GPZ		EP	N	00	06	12			13							
	KAI		EP	X	00	06	21			14							
	COB		P	Z	00	06	42.0			15							
			S	Z		09	41										
	WEL		EP	ZNE	00	06	46			16							
			ES	ZNE		10	02										
			L	ZNE		09											
	MNG		EP	Z	00	07	01			17							
			I	Z			05.0										
			I	Z		08	32.0										
		E(S)		Z		10	26										
	CNZ		EP	Z	00	07	16			18							
			I	Z			21.0										
	TRZ		EP	Z	00	07	21			18							
			E	Z			26.8										
			ES	Z		11	10										
	CIZ		EP	ZNE	00	07	20.7			19							
	TUA		EP	Z	00	07	29			19							
			ES	Z		11	32										
	KRP		EP	ZNE	00	07	31			19							
	GNZ		EP	ZNE	00	07	34			20							
			E	ZNE			41.0										
			ES	ZNE		11	39										
	WTZ		EP	Z	00	07	32			20							
			I	Z			36.0										
	ONE		EP	E	00	07	55			21							
			ES	E		11	55										
	ECZ		EP	Z	00	07	45.5			21							
			E	Z			55.0										
	CRZ		EP	ZNE	00	07	56			21							
			PP	ZNE		08	29										
			ES	NE		12	36										
	SBA		EP	ZNE	00	08	06			25							
			ES	ZNE		12	50										
			EL	ZNE		13	00										
	RAR		EP	ZNE	00	11	23			45							
			ES	ZNE		17	50										
			ESS	ZNE		21	12										
			ELR	ZNE		23	43										
	AFI		P	Z	00	11	31			46							
			S	ZNE		18	16										
			SS	ZNE		21	40										
			LQ	E		23	14										
			LR	ZN		25											

	H M S	EPICENTRE	DEPTH	MAG	
APR 07	01 16 38.6	1.8N 126.4E	47KM	5.3	MOLUCCAS

			H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	EP	Z	01	26	41.0					60					
	KRP	EP	ZE	01	26	44.0					60					
	MJZ	P	ZNE	01	26	44.0					60					
		*PP	Z			49.0										
	MNG	EP	Z	01	26	51.0					61					
	GNZ	EP	ZNE	01	26	57					62					
APR 07	RAO	EP	Z	02	45	19.5										
		S	Z			59.5										
	ECZ	EP	Z	02	46	46										
		ES	Z		48	40										
	WTZ	P	Z	02	46	49.0										
		ES	Z		48	47										
	GNZ	EP	ZNE	02	46	52.0										
		S	ZNE		48	54										
	KRP	P	ZNE	02	46	58.2					T=0.49					
	TUA	EP	Z	02	46	59										
		ES	Z		49	03										
	CNZ	EP	Z	02	47	05										
		ES	Z		49	24										
	TRZ	P	Z	02	47	06.7										
		S	Z		49	19										
	MNG	EP	Z	02	47	18.0										
		I	Z			21.5										
		ES	Z		49	37										
		I	Z			46.2										

	H M S	EPICENTRE	DEPTH	MAG	
APR 07	10 21 10.7	15.2S 173.6W	33KM	5.0	TONGA

			H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	10	21	41					2					
		S	ZNE		22	00										
	RAR	ET	ZNE	10	38	30					14					
	KRP	EP	Z	10	26	32					25					
	MNG	EP	Z	10	26	50.0					27					
APR 07	AFI	P	ZNE	12	58	15										
		S	ZNE		59	08										
	KRP	EP	Z	13	01	37										
	MNG	EP	Z	13	01	57										
APR 07	RAO	EP	Z	13	19	01.5										
		ES	Z			18.5										

	H M S	EPICENTRE	DEPTH	MAG	
APR 07	19 08 54.1	12.4N 144.0E	39KM	5.1	CAROLINE IS

			H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP	Z	19	19	01					60					
APR 07	WPZ	ES	Z	19	24	30										
	MNW	P	Z	19	23	43.5										
		S	Z		24	38										
	OMZ	EP	Z	19	24	10.0										
		ES	Z		25	23										
	MJZ	EP	ZNE	19	24	28										
	GPZ	ES	N	19	24	05										
	MNG	EP	Z	19	25	30										
		ES	Z		27	36										

	H M S	EPICENTRE	DEPTH	MAG	
APR 07	23 18 15.5	21.4S 174.1W	33KM	5.1	S. OF TONGA

			H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	23	20	01					8					
		S	ZNE		21	19										

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                T       ZNE     27 25
        RAO   EP        Z   23 20 16.5      9
              S         Z      23 52
        RAR   EP        ZNE 23 21 15.8      13
              ES        ZNE    23 49
              ET        ZNE    35 45
        GNZ   EP        ZNE 23 22 32        18
              ES        ZNE    26 02
        KRP   EP        Z   23 22 34.0      19
        MNG   P         Z   23 22 57.9      21
              ES        Z      26 40.0
        COB   EP        Z   23 23 20.5      23
        MJZ   EP        ZNE 23 23 46.5      26
        MNW   P         Z   23 24 13.0      29

APR 08  AFI   IP        ZNE 02 37 09.5U
              S         ZNE    47
        MNG   EP        Z   02 41 34

         H  M  S        EPICENTRE    DEPTH  MAG
APR 08  10 01 14.3     5.0S 151.0E  157KM  5.0  NEW BRITAIN
                          H  M  S   DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        CRZ   EP        Z   10 07 58       36
        KRP   EIP       Z   10 08 32.8U     40
        WTZ   P         Z   10 08 39.3      40
        COB   IP        Z   10 08 43.2      41
        GNZ   EIP       Z   10 08 47.0U     42
        MNG   IP        Z   10 08 49.0      42
                *PP     Z      09 21
              E         Z      11 29.8
        WEL   P         ZNE 10 08 50.9      42
        MJZ   P         ZNE 10 08 54.4      42
        MNW   P         Z   10 08 59.7      43

         H  M  S        EPICENTRE    DEPTH  MAG
APR 08  10 17 45.5     24.1S 180.0E 509KM  5.1  S. OF FIJI
                          H  M  S   DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P         Z   10 19 19        5  0.09
              ES        Z      20 31.5
        NDF   EP        Z   10 19 29        7
        CRZ   P         Z   10 20 29.0      12
        AFI   P         ZNE 10 20 28        13
              S         ZNE    22 40
        KRP   P         Z   10 20 53.0      14
        GNZ   S         ZNE 10 23 26        15

APR 08  AFI   IP        ZNE 22 03 11  U        =0.49
              (S)       NE     04 34

         H  M  S        EPICENTRE    DEPTH  MAG
APR 09  04 10 50.7     42.2N  84.7E  33KM  5.9  N. SINKIANG
                          H  M  S   DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP      ZNE 04 29 56      129

APR 09  KRP   P         Z   05 50 35.0
        COB   EP        Z   05 50 47
        MNG   P         Z   05 50 51.7

APR 09  RAO   IP        Z   09 10 12.6
              (S)       Z      38
        WTZ   EP        Z   09 11 49.0
              S         Z      13 27
        GNZ   ES        ZNE 09 13 30
        MNG   EP        Z   09 12 19
              ES        Z      14 27
        WEL   EP        Z   09 12 32
              S         ZNE    14 46
        COB   S         Z   09 15 01
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APR 09  KRP  EP      Z   15 36 17
             E       Z      29
        MNG   P      Z   15 36 42.4
              E      Z      59

             H  M  S       EPICENTRE    DEPTH  MAG
APR 09  20 39 40.0     18.8S 173.8W    33KM  5.1  TONGA
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P      ZNE 20 40 55          5
              S      ZNE    41 47
              T      ZNE    45 30
        NDF  EP      Z   20 41 53          9
        RAR  EP      ZNE 20 42 39         13
             ET      ZNE    55
        WTZ  EP      Z   20 44 19         21
        KRP   P      ZNE 20 44 25.0       21
              E      Z      39.5
        MNG  EP      Z   20 44 47         24
             ES      Z      49 00
        MJZ  EP      ZNE 20 45 34         28
        MNW   P      Z   20 46 01.0       31
        SBA  EP      ZNE 20 49 45         60

             H  M  S       EPICENTRE    DEPTH  MAG
APR 10  00 46 29.1     33.8N 142.2E    38KM  4.9  E. OF HONSHU
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   P      Z   00 58 35.8         80

             H  M  S       EPICENTRE    DEPTH  MAG
APR 10  02 06 53.2     28.4N  52.8E    33KM  6.1  S. IRAN
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EPKP      ZNE 02 25 49         123
             EPP       ZNE    27 20
             ESKS      ZNE    33 10
             EPS       ZNE    37 18
             ESS       ZNE    44 10
             ESSS      ZNE    48 40
             EL        ZNE    58 55
        NDF  EPKP      Z   02 26 02.5       128
             E         Z      12
        MJZ  EPKP      Z   02 26 00         129
             E         Z      20
             EPP       ZNE    28 04
              PPS      ZNE    39 08.0
             E         ZE     43 27
        COB  EPKP      Z   02 26 04.0       130
             (*PPKP)   Z      14
             E         Z      21
             EPP       Z      28 22
             EPKS      Z      29 27
        WEL  EPKP      Z   02 26 02         131
             E         Z      18
             EPP       Z      28 20
             EPKS      ZNE    29 28
        KRP  EPKP      Z   02 26 06.0       132
             (*PPKP)   Z      21.5
             EPP       Z      28 30
             EPKS      ZNE    29 32
              PPP      Z      30 12
        MNG  EPKP      Z   02 26 03         132
             EPP       Z      28 05
             EPKS      Z      29 28
        AFI   PKP      Z   02 26 19         134
              PP       Z      29 20
              SKSP     Z      39 00
              SKKS     ZE     43 00
              SS       ZNE    47 05
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                SSS     N       52 32
                        N    03 02
          RAR   EPKP    ZNE 02 26 43        150

APR 10    AFI   IP      ZNE 03 14 30.9J
                S       ZNE    15 02
          RAR   ET      ZNE 03 25 46
          WTZ   P       Z   03 18 42.0
          GNZ   EP      Z   03 18 45
          KRP   P       ZNE 03 18 46.8
                (EPP)   ZNE    19 01
          MNG   EP      Z   03 19 07
          COB   EP      Z   03 19 22

APR 10    KRP   P       Z   04 00 01.3
          GNZ   EP      Z   04 00 12
          MNG   P       Z   04 00 22.0
          WEL   P       ZNE 04 00 29.5
          MJZ   EP      ZNE 04 00 39

APR 10    AFI   P       ZNE 06 11 21
                S       ZNE    47
                T       ZNE    13 42
          WTZ   P       Z   06 15 57.0
          GNZ   P       ZNE 06 15 59.0
          KRP   P       ZNE 06 16 01
          MNG   EP      Z   06 16 24
          COB   EP      Z   06 16 38
          MJZ   EP      ZNE 06 17 12

           H  M  S       EPICENTRE     DEPTH   MAG
APR 10    08 47 41.6    55.8S  29.9W   33KM    5.0  SOUTH SANDWICH IS
                                H  M  S  DIR DIS LG AZ TZ AN TN AE TE  MAG
          SBA   EP      ZNE 08 56 05.5      46
          COB   EP      Z   09 00 02       82

APR 10    KRP   EP      Z   11 49 45

           H  M  S       EPICENTRE     DEPTH   MAG
APR 10    15 47 35.7    16.4S 172.9W   33KM    4.9  SAMOA REGION
                                H  M  S  DIR DIS LG AZ TZ AN TN AE TE  MAG
          AFI   P       ZNE 15 48 13        3
                S       ZNE    43
                T       ZNE    51
          NDF   EP      Z   15 50 03        9
                E       Z      17.6
          RAR   EP      ZNE 15 50 32       13
                ES      ZNE    53 04
          WTZ   EP      Z   15 52 42       23
          GNZ   P       ZNE 15 52 44.0     24
          KRP   P       ZNE 15 52 46.7     24
          MNG   EP      Z   15 53 09       26
                ES      Z      57 51
          COB   EP      Z   15 53 23       28
          SBA   EP      ZNE 15 57 57       62

APR 10    AFI   P       Z   16 14 26
                (S)     NE     16 15
          KRP   P       Z   16 15 33.2
                E       Z      38.0
          MNG   EP      Z   16 16 05.0
                E       Z      10
          COB   EP      Z   16 16 16

APR 10    KRP   EP      Z   17 49 44

APR 10    AFI   IP      ZNE 18 46 45  J
                S       ZNE    47 07
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        KRP   P        Z   18 51 28.0
        MNG   EP       Z   18 51 35

APR 10  KRP   P        ZE  19 43 39.8
        MNG   EP       Z   19 44 02
              ES       Z      46 37
        COB   EP       Z   19 44 15

         H  M  S       EPICENTRE    DEPTH  MAG
APR 10  22 04 04.3     33.2N 141.7E  31KM  4.4  E. OF HONSHU
                                H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        KRP   EP       Z   22 16 00.0      77
        COB   EP       Z   22 16 08        79
        MNG   EP       Z   22 16 13.7      80

         H  M  S       EPICENTRE    DEPTH  MAG
APR 11  02 21 15.7     1.0N  28.3W  33KM  6.0  MID-ATLANTIC RIDGE
                                H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        SBA   EPS      ZNE 02 47 00       103
              ESS      ZNE    54 00
              ELQ      ZNE 03 03 20
              ELR      ZNE    09 20
        ROK   ESS      NE  03 00 44       133
        MJZ   EPKP     Z   02 40 44       134
        WEL   EPKP     Z   02 40 34       135
              ESKP     ZE     43 08
              E(SP)    ZNE    55 12
                SS     NE  03 01 28
                L      ZNE    23
        AFI     SSP    ZNE 03 02 40       142
                SSS    ZN     08 00
                L      NE     18
                L      ZE     28
        NDF   EPKP     Z   02 41 11       150

         H  M  S       EPICENTRE    DEPTH  MAG
APR 11  14 14 15.6     42.3N 142.9E  60KM  5.3  HOKKAIDO
                                H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        KRP   EP       Z   14 26 49.8       85
                PP     Z      27 05
        MNG   P        Z   14 27 00.0       88
                PP     Z      16.0
        MJZ   P        ZNE 14 27 09.3       89
              E-PP     Z          25

APR 11  KRP   P        Z   17 08 46.0
        MNG   P        Z   17 09 14.5
        MJZ   EP       ZN  17 09 48

APR 11  WTZ   EP       Z   19 08 35
              ES       Z      09 55
        CRZ   EP       Z   19 08 36
        GNZ     P      ZNE 19 08 39.0
                S      ZNE    10 06
        KRP   P        Z   19 08 42.0
              ES       E      10 09
        TUA   EP       Z   19 08 44
              ES       Z      10 13
        TRZ     P      Z   19 08 56
                S      Z      10 27
        MNG   EP       Z   19 09 03
              ES       Z      10 51
        WEL   EP       Z   19 09 17
              ES       ZNE    11 10
        COB   ES       Z   19 11 19

APR 11  KRP   EP       ZNE 19 15 08
        WTZ   EP       Z   19 15 12
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        MNG  EP       Z    19 15 34
        MJZ   P       ZE   19 16 08

APR 11  MNW  EP       Z    19 18 08
             ES       Z       19 00
        MSZ   P       Z    19 18 22.7
              S       Z       19 27
        MJZ  EP       ZNE  19 18 55

APR 11  SBA  EP       ZNE  20 59 40
             ES       ZNE  21 03 01
             EL       ZNE     04 00
        MNW  EP       Z    20 59 43
        MJZ  EP       ZN   21 00 32
        WEL  EP       Z    21 00 36
             ES       ZNE     05 04
              LQ      ZNE     06

APR 12  MNG  EP       Z    03 49 24
        MSZ   P       Z    03 49 40.3

APR 12  MSZ  EP       Z    04 32 47

         H  M  S       EPICENTRE    DEPTH  MAG
APR 12  05 15 46.5    6.3S 152.4E   35KM   4.9  NEW BRITAIN
                         H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP       Z    05 23 27.0      41

         H  M  S       EPICENTRE    DEPTH  MAG
APR 12  10 00 10.1    19.3S 175.0W  203KM  5.2  S. OF TONGA
                         H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       ZNE 10 01 22         6
              S       ZNE    02 21
        NDF  EP       Z    10 01 54         7
        RAO  ES       Z    10 04 18        10
        RAR  EP       ZNE  10 03 11        14
             ET       ZNE     13
        WTZ   P       Z    10 04 24.0      20
        GNZ   P       ZNE  10 04 29.4      20
              S       ZNE     08 02
        KRP  EP       ZNE  10 04 29.5      20
             PP       ZE      05 10.0
        TRZ   P       Z    10 04 42.8      21
             ES       Z       08 30
        MNG   P       Z    10 04 50.9      23
             ES       Z       08 57
        WEL  EP       Z    10 05 01.7      24
             ES       ZNE     09 18
        COB  EP       Z    10 05 06.0      24
              I       Z       10.0
        MJZ  EP       ZNE  10 05 38        27
              S       ZNE     44.0
        MSZ  EP       Z    10 05 50        29
              I       Z       57.5
        MNW   P       Z    10 06 00.0      30
             aPP      Z       45
        SBA  EP       ZNE  10 09 54        59

         H  M  S       EPICENTRE    DEPTH  MAG
APR 12  14 48 13.3    19.7S 176.0W   33KM  4.9  FIJI
                         H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP       Z    14 49 49.5       7
        AFI  EP       ZNE  14 49 58         7
              S       ZNE     51 08
        KRP  EP       Z    14 52 41        20
        COB  EP       Z    14 53 21        23
        MSZ  EP       Z    14 54 14        28
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          H  M  S        EPICENTRE    DEPTH  MAG
APR 13    04 40 19,5     14,6S 167,8E  22KM  4,4  NEW HEBRIDES
                            H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  EP       Z   04 45 28       24
          MNG  EP       Z   04 45 58       27

APR 13    RAO  EP       Z   10 19 29,3
               ES       Z       20 14

          H  M  S        EPICENTRE    DEPTH  MAG
APR 13    15 03 46,0     18,1N 120,3E  68KM  4,3  LUZON
                            H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  EP       Z   15 15 27       76

APR 13    AFI   P       ZNE 18 36 55
                S       ZNE    37 21
                T       ZNE    39 22

APR 13    RAO   P       Z   22 34 48,5
                S       Z       35 18,5
          GNZ  ES       ZNE 22 38 47
          KRP  EP       Z   22 36 41
          MNG   S       Z   22 39 37
          COB  ES       Z   22 40 09

APR 14    WTZ   P       Z   04 52 23,5
          KRP   P       Z   04 52 28,0
          MNG  EP       Z   04 52 49
          COB   P       Z   04 53 00,0
          MJZ  EP       Z   04 53 32
          MSZ  EP       Z   04 53 42

APR 14    NDF   P       Z   08 27 44,9
                E       Z       51,6

          H  M  S        EPICENTRE    DEPTH  MAG
APR 14    18 15 16,4     6,6S 105,8E   50KM  5,3  W. JAVA
                            H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P       Z   18 25 56,0       66
          MJZ  EP       Z   18 26 05        67
          COB  EP       Z   18 26 13        68

          H  M  S        EPICENTRE    DEPTH  MAG
APR 15    07 28 28,9     21,5S 170,4E 159KM  5,3  LOYALTY IS
                            H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   IP      Z   07 30 18,7D       9
                E       Z       26,5
          CRZ   P       ZNE 07 31 33,2       13
          KRP   P       ZNE 07 32 16,3       17
                E       ZN         27
                I       ZN         30,0
          WTZ  EP       Z   07 32 22,5       17
                E       Z          34,0
          CNZ   P       Z   07 32 31         18
                I       Z          45,7
          GNZ   P       ZNE 07 32 33         18  +0,32                      6,0
          AFI   P       ZNE 07 32 31         19
                S       ZNE    34 31
          MNG  EIP      Z   07 32 43,0J      20  +0,76                      5,5
          COB   P       Z   07 32 46,8       20
                E       Z       33 05
          WEL   P       Z   07 32 50         20
          MSZ  EP       Z   07 33 23         23
          S9A  EP       ZNE 07 37 55         56

APR 15    AFI  EP       Z   09 43 44
                S       ZNE    44 19
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        WTZ   P        Z   09 47 54.0
        KRP   EP       Z   09 47 59
        MNG   P        Z   09 48 22.7
        COB   EP       Z   09 48 35.5

APR 15  KRP   EP       Z   10 38 33
        MNG   P        Z   10 39 02.6

APR 15  MSZ   EP       Z   11 07 57.5
              E        Z       08 04
        KRP   EP       Z   11 07 59
        MNG   EP       Z   11 08 04

         H  M  S        EPICENTRE    DEPTH  MAG
APR 15  11 17 46.2     22.3S 171.6E   45KM  4.3  LOYALTY IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        ZNE 11 21 32.4      16
        WTZ   EP       Z   11 21 35.0      16
        GNZ   EP       ZNE 11 21 41        17
              E        ZNE       50.2
        AFI   ES       NE  11 25 12        18
              ELR      Z         26 40
        MNG   P        Z   11 22 00.0      19
        COB   EP       Z   11 22 04.0      19
        WEL   EP       Z   11 22 07.0      19
        MSZ   EP       Z   11 22 45.5      23

         H  M  S        EPICENTRE    DEPTH  MAG
APR 15  17 24 01.2     7.0S 129.6E  126KM  4.9  BANDA SEA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP       Z   17 33 04.8      53

APR 15  AFI   P        ZNE 19 32 24
              S        ZNE    33 14

APR 15  RAO   EP       Z   23 11 26
              ES       Z       12 00
        WTZ   EP       Z   23 12 18
              ES       Z       13 35
        KRP   E        Z   23 12 43
        MNG   EP       Z   23 12 53
              ES       Z       14 37
        WEL   S        NE  23 14 55.0
        COB   ES       Z   23 15 16

         H  M  S        EPICENTRE    DEPTH  MAG
APR 15  23 38 23.0     15.1S 168.0E   39KM  4.9  NEW HEBRIDES
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   23 40 40          9
        KRP   P        ZNE 23 43 33.5      24
              *PP      Z       42.3
        MNG   EP       Z   23 43 55        26
        SBA   EP       ZNE 23 48 47.5      63

APR 16  AFI   P        ZNE 01 11 57
        WTZ   P        Z   01 13 39.0
              (*PP)    Z       50
        KRP   P        ZNE 01 13 44
        MNG   EP       Z   01 14 04
              E        Z       32
        COB   P        Z   01 14 20.0

         H  M  S        EPICENTRE    DEPTH  MAG
APR 16  01 27 55.7     1.8S  99.8E   33KM  5.3  S. SUMATRA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB   EP       Z   01 39 42.0      76
        KRP   P        Z   01 39 50.6      78
              PCP      Z       40 02
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        CNZ EP          Z   01 39 52.2D     78
            IPCP        Z      40 01.8
        MNG EP          Z   01 39 50        79
            PCP         Z      40 00
        SBA EP          ZNE 01 40 31.5      83

         H  M  S        EPICENTRE    DEPTH  MAG
APR 16  03 57 04.4      6.0S 152.9E   44KM  4.6  NEW BRITAIN
                           H  M  S  DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P         Z   04 04 18.8      39
        WTZ   P         Z   04 04 25.0      39
        COB   P         Z   04 04 30.3      39
        MNG   P         Z   04 04 34.9      40
        MSZ   P         Z   04 04 44.0      41
              PP        Z      54.3

APR 16  MSZ   P         Z   04 45 55
        COB   EP        Z   04 46 02
        MNG   EP        Z   04 46 10

         H  M  S        EPICENTRE    DEPTH  MAG
APR 16  10 20 05.8      20.3S 173.5W  33KM  4.7  TONGA
                           H  M  S  DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P         ZNE 10 21 33         7
              S         ZNE    22 35
              L         ZNE    23 16
              T         ZNE    27 27
        NDF   EP        Z   10 22 23.5        9
        RAR   EP        ZNE 10 23 00        13
              EL        ZNE    25 30
        WTZ   EP        Z   10 24 35        19
        KRP   EP        ZNE 10 24 42        20
        CNZ   EP        Z   10 24 55        21
        MNG   EP        Z   10 25 03        22
              ES        Z      29 06
        COB   EP        Z   10 25 22        24
        MSZ   EP        Z   10 26 13        29
        SBA   EP        ZNE 10 30 05        58

APR 16  KRP   EP        Z   11 31 25
        CNZ   EP        Z   11 31 37
              ES        Z      33 23
        MNG   EP        Z   11 31 41.5

APR 16  WTZ   EP        Z   13 10 57
              ES        Z      12 16
        CNZ   ES        ZNE 13 12 22
        MNG   EP        Z   13 11 32
              ES        Z      13 24

         H  M  S        EPICENTRE    DEPTH  MAG
APR 16  20 44 14.2      4.4N 125.4E  245KM  5.0  S. OF MINDANAO
                           H  M  S  DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P         Z   20 54 11.0        62
        MNG   EP        Z   20 54 21          64

APR 16  KRP   P         Z   21 18 43.0
        MNG   P         Z   21 19 03.8

APR 16  AFI   IP        ZNE 22 20 13  J
              S         ZNE       31

APR 17  AFI   IP        ZNE 01 07 13  J
              S         ZNE       34

APR 17  KRP   P         Z   05 56 31.0
        CNZ   S         ZNE 05 59 13
        CNZ   P         Z   05 56 51.5
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        MNG  EP       Z   05 57 01
             ES       Z      59 48
        COB   P       Z   05 57 13.3
        MJZ   P       Z   05 57 47.0

         H  M  S       EPICENTRE    DEPTH  MAG
APR 17  08 52 09.9     2.0N 124.3E  273KM  4.8  CELEBES SEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   09 01 54.8       61
        MJZ   P       Z   09 02 01.9       62
        MNG  EP       Z   09 02 09         63

APR 17  RAO  IP       Z   08 52 38.6U
             S        Z      58

         H  M  S       EPICENTRE    DEPTH  MAG
APR 17  10 49 42.7     24.2N 122.5E  35KM  5.8  TAIWAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP       Z   11 00 43       68
        AFI  EP       Z   11 01 22       75
             S        ZNE    11 00
             SSS      N      19 08
             LR       ZNE    24
        KRP   P       ZNE 11 01 48       79
             *SP      ZNE    02 02
        MSZ  EP       Z   11 01 53       80
             *PP      Z      02 01
        MNW  EP       Z   11 01 55       81
             *SP      Z      02 09
        MJZ   P       ZNE 11 01 57       81
             *PP      ZNE    02 07
        MNG   P       Z   11 01 55.0     81
             *SP      Z      02 10
        WEL   P       Z   11 01 56       81
             (PP)     Z      04 17
              L       Z      32
        GNZ   P       ZNE 11 01 59.0     81
             *PP      ZNE    02 08.0
             *SP      ZNE       13
              I       ZNE       39.0
              E       ZNE    03 17
        SBA  ESKS     ZNE 11 14 30      105
             ESS      ZNE    23 00

         H  M  S       EPICENTRE    DEPTH  MAG
APR 17  13 57 07.2     8.8S 157.6E   35KM  5.0  SOLOMON IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG  EP       Z   14 04 00       35

         H  M  S       EPICENTRE    DEPTH  MAG
APR 17  14 02 38.7     27.9N 142.8E  33KM  5.3  BONIN IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP       Z   14 14 15       72

         H  M  S       EPICENTRE    DEPTH  MAG
APR 17  14 32 06.3     6.9S 157.6E   47KM  5.2  SOLOMON IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP       Z   14 37 23       22
             E        Z      35.5
        AFI   P       Z   14 38 41       31
        KRP  EP       Z   14 39 05       35
        MNG  EP       Z   14 39 17.5     37
             E        Z      23.0
              *PP     Z      27.5
        MSZ   P       Z   14 39 33.4     39
              I       Z      38.0
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          H  M  S        EPICENTRE     DEPTH  MAG
APR 17   20 21 13.6    23.6N 142.9E    33KM  5.0  VOLCANO IS
                                  H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
          MNG   EP          Z    20 32 27.0       71

APR 17    RAO   IP          Z    22 51 52.10
                S           Z       52 13
          MNG   EP          Z    22 54 39
                ES          Z       57 02

          H  M  S        EPICENTRE     DEPTH  MAG
APR 18   01 48 57.4    21.3S 170.3E   118KM  5.2  LOYALTY IS
                                  H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP?         Z    01 50 54.5        8
          CRZ    P          ZNE  01 52 04.0       13
                 I          ZNE       09.2
          KRP    P          ZNE  01 52 52.8       17
                 I          ZNE       53 03.0
                 *PP        Z         10
                 ES         E         56 45
          WTZ    P          Z    01 52 59.9       18
                 I          Z       53 09.7
          GNZ    P          ZNE  01 53 07.5       19
          AFI    P          Z    01 53 07         19
                 S          ZNE      57 14
          MNG   EIP         Z    01 53 20.20      20
                 *PP        Z         41.0
                 ES         Z       57 10
          COB    P          Z    01 53 23.0       20
                 I*PP       Z         38.0
          WEL    EP         ZNE  01 53 32         20
                 E*PP       ZNE       46
          MJZ    P          ZNE  01 53 50.6       23
                 E          ZNE       57.7
                 I*PP       ZNE       54 19.0
                 *SP        Z         46.0
          MSZ    P          Z    01 53 58.1       23
                 *PP        Z       54 26
          MNW    P          Z    01 54 07.8       25
                 EPP        Z         45

          H  M  S        EPICENTRE     DEPTH  MAG
APR 18   03 26 36.8     8.1S 158.3E    78KM  4.9  SOLOMON IS
                                  H  M  S   DIR DIS LG AZ T  AZ TZ  AN TN  AE TE  MAG
          AFI    P          Z    03 32 58         30
          KRP    EP         Z    03 33 33.0       34
          MNG    P          Z    03 33 30.4       36
                 *PP        Z         50.0
          MJZ    P          ZNE  03 33 38.1       37
                 *SP        ZNE       34 04
          MSZ    P          Z    03 33 44.7       37
                 *PP        Z         34 04
                 *SP        Z         09

APR 18    RAO   IP          Z    04 24 35.20
                ES          Z         48
          WTZ   EP          Z    04 26 47
                ES          Z       28 07
          GNZ    S          ZNE  04 28 11
          KRP   EP          Z    04 26 52
          MNG   EP          Z    04 27 05
                ES          Z       29 10
          WEL    S          ZNE  04 29 31
          COB   EP          Z    04 27 44
                ES          Z       29 52
          MSZ   EP          Z    04 28 30
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APR 18  AFI   P      ZNE 05 27 07
              S      ZNE    28 16
        WTZ   EP     Z   05 30 04
        MNG   EP     Z   05 30 29

APR 18  RAO   EP     Z   07 40 16.0
              ES     Z         31.0
        WTZ   EP     Z   07 42 19
              ES?    Z      43 51
        GNZ   ES     ZNE 07 43 56
        MNG   EP     Z   07 42 57
              ES     Z      44 56

APR 18  RAO   IP     Z   08 30 10.0D
              ES     Z         22.3
        WTZ   EP     Z   08 32 04
              ES     Z      33 46
        GNZ   S      ZNE 08 33 47
        MNG   EP     Z   08 32 48
              ES     Z      34 46

APR 18  AFI   P      ZNE 10 19 38
              S      ZNE    20 20
              T      ZNE    22 49
        MNG   (P)    Z   10 25 26

        H  M  S      EPICENTRE     DEPTH  MAG
APR 18  18 23 20.3   5.5S 149.3E  189KM  4.6  NEW BRITAIN
                         H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP     Z   18 30 55       42

        H  M  S      EPICENTRE     DEPTH  MAG
APR 18  22 20 35.5   31.6S 138.5E  33KM        S. AUSTRALIA
                         H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P      Z   22 26 34       28
        COB   EP     Z   22 26 47       29
        MNG   EP     Z   22 27 03       31

APR 19  RAO   P      Z   10 18 08
              S      Z         58
        WTZ   EP?    Z   10 20 21
        GNZ   S      ZNE 10 22 38
        MNG   EP     Z   10 20 50
              ES     Z      23 32

        H  M  S      EPICENTRE     DEPTH  MAG
APR 19  19 31 40.1   33.3N 140.8E  61KM  4.7  S. OF HONSHU
                         H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P      Z   19 43 34.6     78
        MNG   EP     Z   19 43 46.0     80

APR 19  MNG   P      Z   23 45 03

        H  M  S      EPICENTRE     DEPTH  MAG
APR 20  02 49 23.8   24.5S 116.4W  33KM  4.8  S. PACIFIC OCEAN
                         H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P      ZNE 02 59 42.0     62
        MSZ   EP     Z   02 59 52       63

APR 20  MNG   EP     Z   10 32 26

APR 20  AFI   IP     ZNE 12 13 05.5D
              S      NE        56
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	H	M	S	EPICENTRE	DEPTH	MAG										
APR 20	17	51	37.0	22.9S 175.1W	37KM	5.3	S. OF TONGA									
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		S	Z	17	04	32.5									7
			P	Z		03	15.5									
	NDF		P	Z	17	03	46.1									9
		E		Z		04	27									
	AFI		P	ZNE	17	03	45									9
			S	ZNE		05	23									
			T	ZNE		11	12									
	RAR		EP	ZNE	17	04	48									14
			ES	ZNE		07	13.5									
	WTZ		EP	Z	17	05	29									16
	GNZ		EP	ZNE	17	05	34									17
			S	ZNE		08	24									
	TRZ		ES	Z	17	08	52									18
	MNG		EP	Z	17	05	58									19
			S	Z		09	23									
	COB		EP	Z	17	06	25									21
	MJZ		EP	Z	17	07	04									24
	MSZ		EP	Z	17	07	10									26
	MNW		P	Z	17	07	15.5									27
	SBA		EP	ZNE	17	11	14.2									56
			EPP	ZNE		13	31.5									

	H	M	S	EPICENTRE	DEPTH	MAG										
APR 21	01	28	09.5	54.0N 166.9W	103KM	5.8	ALEUTIAN IS									
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	ZNE	01	38	57									68
			S	ZNE		47	40									
			SBS	E		55	16									
			LR	ZN		58	30									
	NDF		P	Z	01	39	29.8									73
			*PP	Z			53.8									
	RAR		EP	ZNE	01	39	41									75
			EPCP	ZNE		40	04									
	KRP		P	ZNE	01	41	11.0									93
			(*PP)	ZNE			38.0									
			E(PP)	ZN		44	56									
	MNG		EP	Z	01	41	22									95
	COB		P	Z	01	41	25									96
	MJZ		(P)	Z	01	41	55									100
	SBA		ESKP	ZNE	01	50	30									133

	H	M	S	EPICENTRE	DEPTH	MAG										
APR 21	01	32	05.8	10.6S 113.7E	44KM	5.3	S. OF JAVA									
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ		P	ZNE	01	42	08.0									59
	COB		EP	Z	01	42	13									60
	MNG		EP?	Z	01	42	20									62
	NDF		EP	Z	01	42	31.5									62
			*PP	Z			42.9									
			EPCP	Z		43	11									
	SBA		EP	ZNE	01	43	33									72
	AFI		P	ZNE	01	43	38									73
APR 21	RAO		(S)	Z	03	42	59									
APR 21	WTZ		EP	Z	05	12	54									
	KRP		P	Z	05	12	59.2									
	MNG		EP	Z	05	13	20									

	H	M	S	EPICENTRE	DEPTH	MAG										
APR 21	13	25	21.3	15.3S 173.7W	125KM	5.6	TONGA									
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		IP	ZNE	13	25	43	JNE	2							
			S	ZNE		26	00									

	NOF	EP	Z	13	27	31.5	9				
		ES	Z		29	08					
	RAR	EP	ZNE	13	28	32	14				
		ES	ZNE		31	05					
		EL	ZNE			42					
		ET	ZNE		35						
	CRZ	P	ZNE	13	30	15	23				
	ONE	P	E	13	30	19.0	23				
		E	E			35.0					
	ECZ	P	Z	13	30	23.3	23				
	AUC	IP	Z	13	30	21.0	24				
	WTZ	P	Z	13	30	25.0	24				
		I	Z			27.7					
	GNZ	P	ZNE	13	30	30.9	24				
		E	ZNE			51					
		*PP	ZNE			57					
		S	NE		35	04					
	KRP	P	ZNE	13	30	30.2	24				
		I	ZNE			32.3					
		*PP	ZNE			50					
		PP	ZNE		31	21					
	TUA	P	Z	13	30	33.0	25				
	CNZ	P	Z	13	30	39	26				
	TRZ	P	Z	13	30	40.3	26				
	TNZ	P	Z	13	30	45.8	26				
	MNG	EP	Z	13	30	50.3	27	-0.66			5.9
		I	Z			54.0					
		*SP	Z		31	32.7					
	WEL	EP	ZNE	13	30	58.0	29	-0.43			6.1
		I	ZNE		31	01.0					
		LR	ZNE		39						
	COB	EP	Z	13	31	01.0	28				
		I	Z			06.0					
	MJZ	EP	ZNE	13	31	32.0	32				
	MSZ	EP	Z	13	31	45.7	33				
		I	Z			48.1					
		I	Z			50.4					
	MNW	P	Z	13	31	55.4	34	-0.48			6.3
		(*PP)	Z		32	29					
	SBA	IP	ZNE	13	35	41.2	63	-0.71			6.3
		ES	ZNE		44	32					
		ELR	ZNE		54	20					
APR 21	AFI	EP	Z	13	52	20					
		S	ZNE		53	13					
		T	ZNE		57	18					
	KRP	EP	Z	13	55	51					
		E	Z		56	02					
	MNG	EP	Z	13	56	14					
	COB	EP	Z	13	56	32					
APR 21	COB	P	Z	14	05	32					
	MNG	EP?	Z	14	05	34					
	KRP	P	Z	14	05	47.3					

	H	M	S	EPICENTRE		DEPTH	MAG								
APR 22	02	22	50.7	52.9S	15.0W	33KM	5.2	S. ATLANTIC OCEAN							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	02	31	41		50								

	H	M	S	EPICENTRE		DEPTH	MAG								
APR 22	13	18	20.6	12.8S	169.3E	692KM	4.8	SANTA CRUZ IS							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z	13	23	03.4		26								
	WTZ	P		Z	13	23	06		26								
	MNG	P		Z	13	23	24.0		28	-1.13							5.4
		ES		Z		27	27										
	COB	P		Z	13	23	27.0		28								

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        WEL   P        Z   13 23 29          29
        MJZ   EP       ZNE 13 23 44          31

         H  M  S        EPICENTRE    DEPTH  MAG
APR 22  21 09 46.8     9.8N 126.1E   98KM  5.1  MINDANAO
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P        ZNE 21 20 36.0       67
        MNG   EP       Z   21 20 40        68

APR 23  AFI   IP       ZNE 02 27 37  J
              S        ZNE         55

APR 23  WTZ   P        Z   09 05 17
        KRP   P        ZNE 09 05 20.0
        GNZ   P        ZNE 09 05 20.5
              S        ZNE    07 54
        MNG   EP       Z   09 05 41
              I        Z          45.1
              ES       Z      08 32
        WEL   S        ZNE 09 08 50
        COB   P        Z   09 05 54

APR 23  AFI   IP       ZNE 16 15 44.2U
              S        ZNE    16 01
        MNG   EP?      Z   16 22 49
              ES       Z      28 12

         H  M  S        EPICENTRE    DEPTH  MAG
APR 23  18 45 04.7     53.1S  25.6E   33KM  4.7  S. OF AFRICA
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP       ZNE 18 53 36        47

         H  M  S        EPICENTRE    DEPTH  MAG
APR 23  20 40 10.0     5.7S 104.2E  103KM  5.5  S. SUMATRA
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   20 50 56.0       67
              PCP      Z      51 09.5
        MNW   P        Z   20 50 58.0       68
        MJZ   P        ZNE 20 51 07.0DN     69  -0.70                      6.2
        COB   P        Z   20 51 13.3       70
        KRP   EP       Z   20 51 28         72
        MNG   EP       Z   20 51 26         72
        TRZ   P        Z   20 51 36.2       73
        GNZ   EP       Z   20 51 36         74
        SBA   EP       ZNE 20 52 03.5       79
        AFI   P        Z   20 52 28         83  -0.93                      6.0

         H  M  S        EPICENTRE    DEPTH  MAG
APR 23  21 25 00.5     4.9S 153.2E   55KM  4.7  NEW IRELAND
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   21 32 21.9       39
        COB   EP       Z   21 32 34         40
        MNG   P        Z   21 32 38.5       41
        MSZ   EP       Z   21 32 46.8       42  -0.97                      5.8

         H  M  S        EPICENTRE    DEPTH  MAG
APR 23  23 36 33.3     17.5S 167.7E   17KM  4.6  NEW HEBRIDES
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z   23 38 47          9
        CRZ   P        ZNE 23 40 46         17
        AFI   P        Z   23 41 07         20
              S        ZNE    45 04
              (SSS)    ZE     46 16
        KRP   P        ZNE 23 41 23.7       21
              *SP      Z          30
        WTZ   P        Z   23 41 30         22
        GNZ   P        Z   23 41 38.9       23
              *PP      Z          43.6
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	TRZ	EP	Z	23	41	44		23									
	COB	EP	Z	23	41	50		24									
	MNG	EP	Z	23	41	48.0		24									
		I•PP	Z			54.2											
		I•SP	Z			58.3											
	WEL	P	ZNE	23	42	00		24									
	MJZ	P	ZNE	23	42	21.0		27									
	MSZ	EP	Z	23	42	27		27									
	SBA	EP	ZNE	23	46	44		60									
	H	M	S	EPICENTRE			DEPTH	MAG									
APR 23	23	57	34.1	17.5S		167.8E	17KM	4.8	NEW HEBRIDES								
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE		MAG
	NDF	P	Z	23	59	47.3		9									
	KRP	P	ZNE	24	02	24.0		21									
	GNZ	P	Z	24	02	39.0		23									
	MNG	P	Z	24	02	48.0		24									
		•PP	Z			55.2											
	MJZ	P	ZNE	24	03	14.0		27									
	SBA	EP	ZNE	24	07	44		60									
APR 24	AFI	EP	Z	00	12	20											
		S	ZNE			50											
		T	ZNE		14	47											
	KRP	E(P)	Z	00	16	59											
	H	M	S	EPICENTRE			DEPTH	MAG									
APR 24	01	20	48.2	31.4S		111.1W	33KM	5.8	NEAR EASTER I.								
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE		MAG
	RAR	ES	Z	01	35	43		44									
		ELR	ZNE		41	09											
	SBA	EP	ZNE	01	30	39.5		58									
		ES	ZNE		38	47											
		ESS	ZNE		42	44											
		ELQ	ZNE		45	30											
		ELR	ZNE		47	53											
	AFI	P	Z	01	30	42		58									
		S	ZNE		38	52											
		SS	Z		42	32											
		LQ	NE		45	20											
		LR	Z		48												
	MNG	EP	Z	01	30	57		59									
	WEL	ES	ZNE	01	39	00		59									
	KRP	P	Z	01	30	52.8		59									
	MJZ	P	ZNE	01	31	02.8		61	-0.70								6.5
	MNW	EP	Z	01	31	11		63									
	MSZ	P	Z	01	31	12		63	-0.96								6.2
		•PP	Z			22											
		PCP	Z			45											
	NDF	E(P)	Z	01	31	27		65									
	H	M	S	EPICENTRE			DEPTH	MAG									
APR 24	01	36	17.2	12.2N		120.9E	29KM	4.8	CENTRAL PHILIPPINES								
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE		MAG
	SBA	EP	ZNE	01	49	14		93	-1.29								6.3
APR 24	AFI	P	ZNE	01	40	00											
		S	ZNE			39											
	NDF	EP	Z	01	41	35											
	RAO	ES	Z	01	44	16											
	KRP	P	ZNE	01	44	01.4											
	GNZ	P	ZNE	01	44	02.0											
		S	ZNE		48	00											
	WTZ	S	Z	01	48	02											
	MNG	P	Z	01	44	23.1											
		ES	Z		48	47											
	COB	P	Z	01	44	38.0											
	MJZ	EP	ZNE	01	45	12											

	H	M	S	EPICENTRE		DEPTH	MAG	FIJI REGION							
APR 24	02	04	25.0	21.3S	179.3W	615KM	5.5								
						H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		IP			Z	02	05	57.5U			5						
	RAO	EIP				Z	02	06	22.40			8						
		S				Z		08	00									
	AFI		P			ZNE	02	06	45			10						
		S				ZNE		08	35									
		SCP				Z		14	29									
	CRZ	EIP				ZNE	02	07	33.20S			15	0.01					
		S				E		10	10									
	ONE		P			E	02	07	39.3			15						
		S				E		10	18.5									
	AUC		P			Z	02	07	47.0			16						
	ECZ		P			Z	02	07	53.0			16						
		ES				Z		10	33									
	WTZ	EIP				Z	02	07	48			17						
		*SP				Z		10	06									
		S				Z			31									
	KRP	EIP				ZNE	02	07	52.00			17	*0.81					5.5
		I				ZNE			53.7									
		S				E		10	43									
		E				E			46									
		E				E		14	20									
		SCP				Z			38									
	GNZ	EP				Z	02	07	51			17	0.06					6.4
		I				ZNE			55.2									
		S				ZNE		10	39.0									
		EISCP				Z		14	40.5U									
		SCS				NE		18	22.0									
	TUA		S			Z	02	10	42			18						
	TRZ		SCP			Z	02	14	42.0			18						
	TNZ		P			Z	02	08	07.8			19						
	MNG	EP				Z	02	08	12.0			20						
		I				Z			27.2									
		S				Z		11	20									
		I				Z		12	05.4									
		EISCP				Z		14	45.0U									
		SCS				Z		18	22.0									
	WEL		P			ZNE	02	08	20			21						
		S				ZNE		11	28									
		SCS				ZNE		18	29.0									
	COB		P			Z	02	08	24.8			21						
		I				Z			38.0									
		ES				Z		11	29									
		I				Z			40.8									
	GPZ	EP				N	02	08	47.0			23						
		S				N		12	13.0									
		SCP				N		14	59									
	MJZ	EP				ZNE	02	08	54.0			24						
		E				Z		09	54.0									
		E				Z		10	16									
		ES				ZNE		12	24									
		EISCP				ZNE		14	55.8									
		SCS				NE		18	44.0									
	MSZ	EP				Z	02	08	57			26						
		*SP				Z		11	27.5									
	MNW		IP			Z	02	09	17.20			27	*0.60					5.9
		I				Z			30.6									
		ES				Z		13	09									
	SBA		IP			ZNE	02	13	16	U		57	*0.37					6.0

	H	M	S	EPICENTRE		DEPTH	MAG	S. OF KERMADEC IS							
APR 24	02	49	45.8	32.9S	178.4W	33KM	4.7								
						H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P			Z	02	50	36			4						
		S				Z		51	20.5									

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        NDF  EP?      Z   02 53 24.5      16
             E        Z      34
        AFI  P        ZNE 02 54 15        20
             S        ZNE    57 35
             T        ZNE 03 15
        SBA  EP       ZNE 02 58 05        46

         H  M  S      EPICENTRE    DEPTH  MAG
APR 24  04 17 20.4   11.8N 144.6E  37KM  5.2  CAROLINE IS
                          H  M  S  DIR DIS LG AZT  AZ TZ  AN TN  AE TE  MAG
        KRP  P        Z   04 27 19.3      57
        MNG  P        Z   04 27 33.0      59

APR 24  RAO  IP       Z   05 59 02.6D
             S        Z      12.7
        FELT RAOUL I. MM II

         H  M  S      EPICENTRE    DEPTH  MAG
APR 24  09 57 21.7   23.6N 121.6E  33KM  6.0  TAIWAN
                          H  M  S  DIR DIS LG AZT  AZ TZ  AN TN  AE TE  MAG
        NDF  EP       Z   10 08 19      68
        AFI  P        ZNE 10 09 04      75
             PP       ZE     11 45
             S        ZNE    18 37
             SS       ZNE    23 36
             SSS      N      27 03
             LQ       NE     29
             LR       ZN     32
        RAO  E(P)     Z   10 09 24      75
        KRP  P        ZNE 10 09 27.0    79  0.07                        7.2
             *PP      ZE     36
             E        ZNE    58
             E        ZNE    10 52
             PP       ZNE    12 18
             (PPP)    Z      13 59.5
        MSZ  P        Z   10 09 29.9    80 -0.87                        6.3
             PCP      Z      36.9
             *PP      Z      39.0
        MNW  P        Z   10 09 32.0    81
             *PP      Z      41.3
             PP       Z   12 41
             PPP      Z   14 19
        MJZ  P        ZNE 10 09 33.2    81  0.04                        7.2
             *PP      ZNE    43.2
             PP       ZNE 12 40
        WEL  IP       ZNE 10 09 34  U   81          21 11               7.2
             PPP      ZNE    14 42
             (SP)     ZNE    19 56
             SKS      ZNE    20 45
             SS       ZNE    25 18
        MNG  EP       Z   10 09 34.1    81
             PCP      Z      39.8
             *PP      Z      43.5
             *SP      Z      49
             EPP      Z   12 35
        GNZ  P        ZNE 10 09 36.5    81 -0.39                        6.8
             PCP      Z      43.0
             *PP      Z      45.4
             E        ZN     13 59.0
        RAR  EP       ZNE 10 10 13      89
        SBA  EP       ZNE 10 11 27     105
             EPP      ZNE    15 40
             ESKS     ZNE    21 05
             ES       ZNE    22 22
             EPS      ZNE    23 50
             ESS      ZNE    29 24
             ELQ      ZNE    40 32
             ELR      ZNE    45 00
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	H M S	EPICENTRE	DEPTH	MAG								
APR 24	11 32 10.1	23.5N 121.9E	33KM	5.0 TAIWAN								
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF EP	Z 11 43 08		68								
	AFI EP	Z 11 43 55		75								
	KRP EP	Z 11 44 18		79								
	MSZ P	Z 11 44 19.5		80	-1.16							6.0
	MNW EP	Z 11 44 21		81								
	MJZ EP	ZNE 11 44 23		81								
APR 24	AFI EP	Z 12 00 06										
	S	ZNE 41										
	T	ZNE 03 27										
	NDF P	Z 12 01 39.0										
	WTZ P	Z 12 04 21										
	KRP P	Z 12 04 27.0										
	E	Z 42										
	GNZ P	ZNE 12 04 27.5										
	MNG P	Z 12 04 50										
	COB EP	Z 12 05 06										
	MJZ EP	Z 12 05 38										
	H M S	EPICENTRE	DEPTH	MAG								
APR 24	12 00 29.4	23.6N 121.6E	19KM	4.9 TAIWAN								
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF EP	Z 12 11 29		68								
	AFI EP	Z 12 12 16		75								
	MSZ P	Z 12 12 39.0		80								
	MNW EP	Z 12 12 41		81								
	GNZ P	ZNE 12 12 44.5		81								
APR 24	RAO P	Z 14 53 54										
	S	Z 54 14										
	WTZ EP?	Z 14 55 20										
	GNZ EP	ZNE 14 55 22										
	S	ZNE 56 56										
	KRP EP	Z 14 55 33										
	MNG EP	Z 14 55 50										
	ES	Z 57 53										
APR 24	WTZ P	Z 16 14 55.3										
	ES	Z 16 09										
	GNZ P	ZNE 16 14 56										
	S	ZNE 16 15										
	TUA EP	Z 16 15 01										
	KRP P	Z 16 15 03.0										
	TRZ EP	Z 16 15 13										
	ES	Z 16 42										
	MNG P	Z 16 15 25.3										
	ES	Z 17 04										
	WEL P	Z 16 15 33.0										
	H M S	EPICENTRE	DEPTH	MAG								
APR 24	17 58 31.5	23.7N 121.7E	33KM	5.3 TAIWAN								
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z 18 10 16		75								
	KRP EP	Z 18 10 40		79								
	MSZ P	Z 18 10 42.8		80								
	MNW EP	Z 18 10 41		81								
	MNG EP	Z 18 10 44		81								
	GNZ P	ZNE 18 10 47		81								
	H M S	EPICENTRE	DEPTH	MAG								
APR 24	18 32 50.3	41.3N 141.2E	26KM	5.0 HOKKAIDO								
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG EP	Z 18 45 33		87								

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APR 24  RAO   EP        Z   18 43 07
               S        Z         57.5

APR 24  MNG    P        Z   19 26 53

         H  M  S       EPICENTRE    DEPTH  MAG
APR 25  19 30 09.3    13.4N 120.3E   50KM   6.2  CENTRAL PHILIPPINES
                                  H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP        Z   19 40 43.5       64
               PCP       Z      41 00
              EPKPPKP    Z   20 09 40
        CRZ    P        ZNE 19 41 12.0       69
               PCP       Z      27.0
        MSZ    P        Z   19 41 30.00      72 -0.21                              6.8
        AFI    P        ZNE 19 41 35         73
               PCP       Z      51
               PP        ZE     44 32
               PPP       ZN     46 00
               S         ZNE    51 00
               SS        ZNE    55 36
               SSS       ZN     59 00
               LQ        N   20 01
               LR        ZE     04
        MNW    P        Z   19 41 33.2       73 -0.43                              6.6
               PCP       Z      49
               *SP       Z      42 02
               PP        Z      44 15.5
        COB    P        Z   19 41 33.3       73 -0.61                              6.4
               PP        Z      44 08
        KRP    P        ZNE 19 41 35.1       73
               IPCP      Z      46.4
               I*SP      Z      54.2
               PP        Z      44 15
        MJZ    IP       ZNE 19 41 36.1DNE    73 -0.09                              6.9
               S         NE     51 01
        RAO    P        Z   19 41 48.6       73  0.08                              7.1
        CNZ    P        Z   19 41 39         73
               PP        Z      44 17
        WEL    P        ZNE 19 41 40         74 -0.46   22 12                      6.8
               PP        ZNE    44 22
               S         ZNE    51 08
               SS        ZNE    56 00
               LQ        ZNE 20 00
        MNG    P        Z   19 41 40.5       74 -0.37                              6.6
               I         Z      49.0
               IPCP      Z      56.7
               PP        Z      44 22
               ES        Z      51 40
        TRZ    P        Z   19 41 43.0       74
               PCP       Z      54
               I         Z      59.0
        GNZ    P        ZNE 19 41 45.0J      75 -0.04                              7.0
               (PCP)     ZNE    42 01.5
               PP        ZNE    44 38
        CBZ    P        Z   19 42 04         78
        CIZ    P        ZNE 19 42 21         81
        RAR   EPP       ZNE 19 46 00         86
               ES        ZNE    52 55
        SBA    EP       ZNE 19 43 26.2       95
               EPP       ZNE    47 12
               EPPP      ZNE    49 30
               ESKS      ZNE    53 44
               ES        ZNE    54 00
               ESS       ZNE 20 01 05
               ELQ       ZNE    10 00
```

	H	M	S	EPICENTRE		DEPTH	MAG									
APR 25	20	46	35.9	13.5N	120.5E	33KM	5.4	CENTRAL PHILIPPINES								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EPCP	Z	20	58	18		73							
	MJZ		P	Z	20	58	05.0		73							
APR 25	ECZ		EP	Z	22	57	42									
			ES	Z		58	59									
	WTZ		P	Z	22	57	46									
			S	Z		59	11.5									
	KRP		EP	Z	22	57	50									
	GNZ		P	ZNE	22	57	50.5									
			S	ZNE		59	16									
	TUA		ES	Z	22	59	26									
	TRZ		ES	Z	22	59	42									
	MNG		EP	Z	22	58	14									
			ES	Z	23	00	03									
APR 25	RAO		IP	Z	23	16	39.2U									
			S	Z		17	14									
	GNZ		ES	ZNE	23	21	07									
	MNG		EP?	Z	23	19	23									
			ES	Z		22	05									
APR 26	AFI		P	ZNE	01	32	48									
			S	ZNE		33	10									
APR 26	RAO		E(P)	Z	01	33	01									
	WTZ		P	Z	01	32	58									
			S	Z		34	12									
	GNZ		S	ZNE	01	34	13									
	TUA		P	Z	01	33	18									
	MNG		EP	Z	01	33	35									
			S	Z		35	12									
	H	M	S	EPICENTRE		DEPTH	MAG									
APR 26	01	33	18.4	18.2S	173.0E	593KM	5.1	FIJI REGION								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P?	Z	01	34	19.8		4							
	RAO		IP	Z	01	36	16.3U		14	0.65						
			S	Z		38	45									
	AFI		P	Z	01	36	29		15							
	CRZ		P	ZNE	01	36	40.7U		16	-0.09						6.2
			S	NE		39	25									
	ONE		P	E	01	36	55.0		18							
	KRP		IP	ZNE	01	37	12.5USW		20	-0.26						6.3
			I	ZNE			17.0									
			S	NE		40	22									
			E	NE			30									
	WTZ		P	Z	01	37	14.0		20							
	ECZ		EP	Z	01	37	15		20							
	GNZ		P	ZNE	01	37	19.9		21							
			S	ZNE		40	31									
	TUA		IP	Z	01	37	20.0J		21							
	CNZ		IP	Z	01	37	23.7J		21							
			S	Z		40	47									
	TRZ		P	Z	01	37	26.4		22							
	MNG		EIP	Z	01	37	33.5J		22	-0.76						5.7
			I	Z			52.0									
			eSP	Z		40	06.8									
			S	Z			56									
			SCP	Z		43	46.0									
	COB		IP	Z	01	37	39.0J		23	-0.11						6.4
			S	Z		41	03									
	WEL		P	ZNE	01	37	39.0		23	-0.25						6.3
			S	ZNE		41	07									
	KAI		P	X	01	37	53.0		24							

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          S       X       41 30
     GPZ  P       N    01 38 01.2N     25
          S       N       41 44.0S
     CHR  P       Z    01 37 59.5      25
     MJZ  IP      ZNE  01 38 04.5JE    26 -0.45                          6.0
          (*PP)   Z       39 41
          *SP     Z       41 13.0
          S       ZNE     51.0
          ISCP    Z       43 58.00
     MSZ  IP      Z    01 38 13.7J     27 -0.41                          6.1
     OMZ  EIP     Z    01 38 14.3      27
          I       Z       24.0
     ROX  IP      Z    01 38 18.9      27
     MNW  IP      Z    01 38 22.2J     28
     WPZ  IP      Z    01 38 30.0J     29
     SBA  IP      ZNE  01 42 28.3J     60 -0.20                          6.1

      H  M   S      EPICENTRE    DEPTH  MAG
APR 26  04 30 19.5   13.5N 120.5E  72KM  5.1  CENTRAL PHILIPPINES
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP  P?      Z    04 41 36        73
     MJZ  P       Z    04 41 44.0      73
     MNG  P       Z    04 41 44.7      74

      H  M   S      EPICENTRE    DEPTH  MAG
APR 26  06 18 44.9   13.9N 120.6E  33KM  5.2  CENTRAL PHILIPPINES
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ  P       Z    06 30 09        72
     AFI  ES      NE   06 40 08        72
          EL2     N       49 24
          ELR     ZNE     53 00
     KRP  EP      Z    06 30 14        73
     MNW  EP      Z    06 30 17        73
     MJZ  P       ZE   06 30 13.6      73
     MNG  EP      Z    06 30 15        74

APR 26  AFI  (P)     ZNE  08 21 05
             (S)     ZNE     23 22

      H  M   S      EPICENTRE    DEPTH  MAG
APR 26  12 21 59.4   23.2S 179.1E 567KM  5.0  S. OF FIJI
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     NDF  IP      Z    12 23 34.1U      6
     RAO  IP      Z    12 23 41.1U      7
          ES      Z       25 03
     CRZ  IP      ZNE  12 24 42.0USW   13  0.61
     AFI  P       ZNE  12 24 38        13
          S       ZNE     26 48
     ONE  P       E    12 24 48.0      13
          S       E       27 18
     AUC  P       Z    12 24 56.3      14
     ECZ  EP      Z    12 25 00        14
          ES      Z       27 31
     WTZ  P       Z    12 25 00.0      15
          ES      Z       27 31.5
     KRP  EIP     ZNE  12 25 03.2USE   15
          S       NE      27 42.5
     GNZ  P       ZNE  12 25 05        15
          *SP     Z       27 14
          S       ZNE     43
     WNZ  EP      Z    12 25 08        16
     TUA  P       Z    12 25 08.0      16
     CNZ  IP      Z    12 25 14.0U     16
     TRZ  P       Z    12 25 15.0      16
          ES      Z       27 58
     TNZ  P       Z    12 25 19.1      16
     MNG  EIP     Z    12 25 25        19
          IS      Z       28 18.5
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          SCP     Z        32 18.0
     WEL   P      ZNE 12 25 34.0      18
           S      ZNE      28 29
     COB EIP      Z   12 25 37.3J     19
           S      Z        28 37.2
           SCP    Z        32 19.0
     KAI   P      X   12 25 53.6      20
           S      X        29 01
     QPZ   P      N   12 25 59.5      21
           S      N        29 15.5
     CHR   P      Z   12 25 58.8      21
     MJZ   P      ZNE 12 26 06.8      22 -0.59                          6.0
           S      ZNE      29 29.0
           SCP    Z        32 28.9
     OMZ   EP     Z   12 26 15.0      23
     MSZ EIP      Z   12 26 19.6      23
           I      Z        27 23.0
           S      Z        29 52.5
           SCP    Z        32 34.0
     ROX   P      Z   12 26 22.5      24
           S      Z        30 03
           SCP    Z        32 34.0
     MNW EIP      Z   12 26 30.1J     24
           I      Z        37.0
           E      Z        28 26
           ES     Z        30 08
     WPZ   P      Z   12 26 34.0      25
     SBA   IP     ZNE 12 30 36  J     55 -0.67                          5.7

      H  M  S      EPICENTRE    DEPTH  MAG
APR 26 15 55 59.3  13.2N 120.3E  35KM  5.1  CENTRAL PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   EP     Z   16 07 22       72
     MJZ   P      Z   16 07 27.0     73 -1.23                          5.8
           PCP    Z         43

      H  M  S      EPICENTRE    DEPTH  MAG
APR 26 16 01 13.3  13.2N 120.3E  56KM  5.1  CENTRAL PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MJZ   P      Z   16 12 38       73 -1.23                          5.8

      H  M  S      EPICENTRE    DEPTH  MAG
APR 26 17 35 08.4  13.4N 120.6E  53KM  5.2  CENTRAL PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   P      Z   17 46 32.3     72
     KRP   EP     Z   17 46 36       72
     MJZ   EP     Z   17 46 34       73

      H  M  S      EPICENTRE    DEPTH  MAG
APR 26 20 50 36.9  5.6N 127.2E 131KM  5.3  PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   P      Z   21 00 46.0     62 -1.06                          6.0
     KRP   P      Z   21 00 49       62
     MNW   P      Z   21 00 49.2     63
     MJZ   P      Z   21 00 51.8     63
           PP     Z   01 22
     MNG   EP     Z   21 00 56       64
     SBA   EP     ZNE 21 03 05       86

      H  M  S      EPICENTRE    DEPTH  MAG
APR 26 21 34 53.9  13.4N 120.6E  44KM  4.9  CENTRAL PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   P      Z   21 46 14       72
     KRP   EP     Z   21 46 18       72
     MJZ   P      ZE  21 46 20       73
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          H  M  S       EPICENTRE    DEPTH  MAG
APR 27    01 29 38.2    13.5N 120.7E  72KM  5.4  CENTRAL PHILIPPINES
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  EP       Z   01 41 04      72
          AFI  ES       NE  01 50 36      72
                LR      ZNE 02 04
          KRP  EP       Z   01 41 00      72
          MJZ   P       ZNE 01 41 04.0    73
                 *PP    ZNE       24.0
                 *PPCP  ZN        37.0
               E        ZN    42 25
          MNG  EP       Z   01 41 08      74

          H  M  S       EPICENTRE    DEPTH  MAG
APR 27    03 21 37.0    4.3S 152.8E  137KM  4.6  NEW BRITAIN
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P       Z   03 28 58.2      39
          COB   P       Z   03 29 09.7      41  =0.88                      5.8
          MNG   P       Z   03 29 15.0U     42
                 *PP    Z                  36

          H  M  S       EPICENTRE    DEPTH  MAG
APR 27    05 20 37.5    10.9S 112.7E  39KM  5.4  S. OF JAVA
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNG  EP       Z   05 29 19      62
                 *PP    Z              27

APR 27    MNG  EP       Z   05 31 03
                 *PP    Z              12

APR 27    MJZ   P       Z   05 59 23

          H  M  S       EPICENTRE    DEPTH  MAG
APR 27    05 51 06.3    0.6S  99.6E  54KM  5.3  S. SUMATRA
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNW   P       Z   06 02 41.0      74
          COB   P       Z   06 02 56        77
          MNG  EP       Z   06 03 07        79

          H  M  S       EPICENTRE    DEPTH  MAG
APR 27    06 44 29.7    13.4N 120.4E  56KM  5.2  CENTRAL PHILIPPINES
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MJZ   P       Z   06 55 54.0      73

APR 27    MJZ  EP       Z   07 10 35

APR 27    AFI   P       ZNE 10 49 17
                S       ZNE    50 48
          KRP   P       Z   10 51 14.0
          MNG  EP       Z   10 51 35

APR 27    WTZ  EP       Z   11 20 30
          GNZ   S       NE  11 22 53
          KRP   P       Z   11 20 30.7
          MNG  EP       Z   11 20 56
               ES       Z   23 32
          COB  EP       Z   11 21 07

APR 27    KRP  EP       Z   14 48 30
          MJZ   P       Z   14 48 43.2        =0.98
               (*PP)    Z              51.5

APR 27    MJZ   P       Z   15 53 43.2
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          H  M  S       EPICENTRE    DEPTH  MAG
APR 27   15 57 29,7    13.4N 120.6E   92KM  4,6  CENTRAL PHILIPPINES
                                 H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MJZ E(P)              Z   16 08 47        73
             E(*PP)            Z         57

APR 27   MNG   P               Z   16 11 08,5

APR 27   AFI   IP              ZNE 16 25 19  U
               S               ZNE       47

          H  M  S       EPICENTRE    DEPTH  MAG
APR 27   19 20 51,6    24.1N 122.5E   15KM  5,6  TAIWAN
                                 H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   EP              Z   19 33 00        79
               (PP)            Z      36 45
         CNZ   EP              Z   19 33 00        80
         MNG   EP              Z   19 33 06        81
         GNZ   EP              Z   19 33 16        81
               (PP)            Z      36 15

          H  M  S       EPICENTRE    DEPTH  MAG
APR 27   19 42 14,5    23.2S 179.1E  574KM  5,2  S. OF FIJI
                                 H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   IP              Z   19 43 52,1U     6
         CRZ   IP              ZNE 19 45 00.0USW   13
         AFI    P              ZNE 19 44 56        13
                S              ZNE    47 05
         ONE    P              E   19 45 17.0W     13
                S              E      47 37
         AUC    P              Z   19 45 15.0       14
         ECZ    P              Z   19 45 18.5       14
         WTZ   IP              Z   19 45 19.2D      15
               I               Z         22.2
                S              Z      47 53
         KRP   EIP             ZNE 19 45 22.0       15 -0,24
                S              NE     48 01
         GNZ   EIP             ZNE 19 45 25.0D      15 -0,12                        6,2
                S              ZNE    48 02
                SCP            Z      52 33.0
                SCS            ZNE    56 13.5
         TUA    P              Z   19 45 26.0       16
                S              Z      48 04
         CNZ   IP              Z   19 45 33.1D      16
                SCP            Z      52 22
         TRZ   EP              Z   19 45 33.5       16
               ES              Z      48 23
         TNZ    P              Z   19 45 38.7       16
         MNG    P              Z   19 45 44.0       18
               E               Z      46 47.0
                S              Z      48 40
               E               Z      51 12
                SCP            Z      52 37.2
         WEL   EP              ZNE 19 45 51         18
                S              ZNE    48 52
         COB    P              Z   19 45 56.0       19
               E               Z      48 11
                S              Z      57
               ESCP            Z      52 37
         KAI    P              X   19 46 12         20
                S              X      49 25
         CIZ   EP              ZNE 19 46 19         21
         GPZ    P              N   19 46 17.6       21
                S              N      49 34
                SCP            N      52 49
         CHR    P              Z   19 45 17         21
         MJZ    P              ZNE 19 46 24.8       22 -0,86                        5,6
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                E       Z       48 16.5
                S       NE      49 45
                (PCP)   Z       50 40
                SCP     ZNE     52 46.1J
                SCS     NE      56 33
          OMZ   EP      Z    19 46 35        23
          MSZ   EP      Z    19 46 47        23
                I       Z       51.1
          ROX   P       Z    19 46 42.5      24
                SCP     Z       52 52
          MNW   EIP     Z    19 46 47.9J     24
                I       Z       53.6
          WPZ   EP      Z    19 46 51        25
                SCP     Z       52 55
          SBA   IP      ZNE  19 50 54.1      55 -0.63                        5.8

APR 27    WTZ   P       Z    20 55 59.0
          KRP   P       ZE   20 56 06.3
                E       Z       17
          GNZ   EP      ZNE  20 56 11
          CNZ   EP      Z    20 56 22

APR 27    AFI   P       ZNE  21 37 38
                S       ZNE     58
          MNG   P       Z    21 42 28.0

           H  M  S       EPICENTRE    DEPTH  MAG
APR 27    22 45 32.5    13.3N 120.9E   49KM  4.7  CENTRAL PHILIPPINES
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MJZ   P       Z    22 56 58        73

APR 28    MNG   EIP     Z    02 02 10.2J

           H  M  S       EPICENTRE    DEPTH  MAG
APR 28    11 30 18.1    17.0N  94.8E   33KM  5.4  BURMA
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   EP      Z    11 43 16        90
          KRP   P       Z    11 43 31.7      93

APR 28    WTZ   EP      Z    13 01 28
          GNZ   EP      ZNE  13 01 31
                ES      NE      04 24
          MNG   EP      Z    13 01 57
                ES      Z       05 25
          COB   EP      Z    13 02 18

APR 28    KRP   EP      Z    21 01 14
          MNG   EP      Z    21 01 43

APR 28    WTZ   EP      Z    21 54 51
          KRP   P       ZNE  21 54 59.0

           H  M  S       EPICENTRE    DEPTH  MAG
APR 28    23 32 10.2    5.1S 154.2E  409KM  6.0  SOLOMON IS
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P       Z    23 37 10.5      26
                E       Z       50
                E*PP    Z       38 21
          ORZ   P       ZNE  23 38 19.5      34
                PCP     Z       40 14.9
                SCP     Z       44 10.0
          AFI   P       ZNE  23 38 24        35
                *PP     ZE      39 48
                S       ZNE     43 27
                *SS     ZNE     45 40
          KRP   P       ZNE  23 38 53.0DNW   38
                E       Z       39 52
                (*SP)   Z       41 01
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		I(PCP)	Z			06.3							
		I	Z			14.4							
		(SCP)	ZNE		44	12.5							
		S	ZNE			21							
		SCS	NE		48	21.5							
		E	NE			34							
		E(*SSCS)	ZNE		50	11							
		E	Z		56	15							
		E	Z	24	06	09.0							
		E	Z		08	59							
		E	Z		17	05							
	WTZ	EIP	Z	23	38	58.00	39						
		PCP	Z		41	00							
		S	Z		44	31							
	CNZ	EIP	Z	23	39	02.0	39						
	ECZ	P	Z	23	39	03.3	39						
	GNZ	EIP	ZNE	23	39	06.6DSW	40						
		S	ZNE		44	41							
	MNG	EIP	Z	23	39	09.7	40						
		IPCP	Z		41	04.8							
		SCP	Z		44	32.0							
		S	Z			47							
		SCS	Z		48	46							
	WEL	P	ZNE	23	39	11.0	40		38 10				6.8
		*PP	Z		40	28							
		PCP	ZNE		41	00							
		SCP	ZNE		44	35							
		S	ZNE			50			30 13	42 20			6.6
		SS	ZNE		48	12							
	MSZ	EIP	Z	23	39	18.30	41						
		IPCP	Z		41	12.0							
		S	Z		45	05							
		SCS	Z		48	51							
	MJZ	EP	ZNE	23	39	17.0	41	0.32					6.7
		IPCP	ZNE		41	11.0							
		I(*SP)	Z			17							
		I	Z			26							
		S	ZNE		45	04							
		SCS	NE		48	40							
		E	E			52							
		E	Z	24	08	12							
	GPZ	P	N	23	39	21	42						
		S	N		45	09							
	MNW	P	Z	23	39	25.0	42						
	CIZ	EP	ZNE	23	40	06	46						
	RAR	EP	ZNE	23	40	07	47						
		EPCP	ZNE		41	27							
		E*SP	ZNE		42	10							
		EPCS	ZNE		45	30							
		ES	ZNE		46	31							
		E*SS	ZNE		49	00							
	CBZ	P	Z	23	40	20.5	49						
		S	Z		41	27.5							
	SBA	IP	ZNE	23	42	59	73						
		E*PP	ZNE		44	23							
		ES	ZNE		52	00							
		ESS	ZNE		56	44							
		EL	ZNE	24	02	45							
APR 29	KRP	P	Z	00	00	40.3							
	ECZ	P	Z	00	00	44							
	WTZ	P	Z	00	00	45.0							
	GNZ	EP?	Z	00	00	54							
	MNG	P	Z	00	00	56.0							
	MSZ	P	Z	00	01	05							
	MJZ	P	ZNE	00	01	07.5							
APR 29	WTZ	P	Z	00	06	06.0							

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        KRP    P        Z    00 06 09.0
        GNZ    P        Z    00 06 14
        MNG    P        Z    00 06 16.6
        MSZ    P        Z    00 06 26

APR 29  ECZ   (S)       Z    00 15 17
        WTZ    P        Z    00 14 04.0
               S        Z       15 28
        GNZ    S        ZNE  00 15 36
        KRP    P        ZE   00 14 12.0
        MNG   EP        Z    00 14 33.0
              ES        Z       16 25
        WEL    S        ZNE  00 16 47
        GPZ   ES        N    00 17 44

APR 29  GNZ   EP        Z    00 17 00
        KRP    P        Z    00 17 05.5
        WTZ   EP        Z    00 17 06
        MNG   EP        Z    00 17 14
        MSZ    P        Z    00 17 18.0

APR 29  MNG    P        Z    01 33 31.7

APR 29  AFI    P        ZNE  04 12 07
               S        ZNE       27

         H  M   S       EPICENTRE    DEPTH  MAG
APR 29  08 16 45.2     33.7N 141.1E   52KM  4.8  E. OF HONSHU
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z    08 28 41.5      78
        MNG    P        Z    08 28 53        80
        MSZ    P        Z    08 29 00.4      82
        MJZ    P        ZNE  08 29 00.0      82

APR 29  AFI    P        ZNE  10 32 45
               S        ZNE       33 23
               T        ZNE       35 56

APR 29  AFI    P        ZNE  19 57 36
               S        ZNE       58 41
        KRP    P        Z    19 58 54.9
        MNG    P        Z    19 59 15.4
              ES        Z    20 02 25

         H  M   S       EPICENTRE    DEPTH  MAG
APR 29  23 06 39.0     6.5S 155.0E   54KM  5.5  SOLOMON IS
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP        Z    23 11 56        25
              E         Z       12 09
        AFI    P        Z    23 13 17        33
               S        Z       18 40
              LR        ZE      23
        KRP    P        ZNE  23 13 40.0      36
              PCP       ZE      16 03
        WTZ    P        Z    23 13 46        37
        COB    P        Z    23 13 53.0      38
              PCP       Z       16 06
        GNZ    P        ZNE  23 13 54        38
        MNG    P        Z    23 13 57.0      39
              PCP       Z       16 08.0
              SCP       Z       19 53
        MSZ    P        Z    23 14 09.0      40
        SBA   EP        ZNE  23 17 57        72

         H  M   S       EPICENTRE    DEPTH  MAG
APR 30  00 13 26.3     13.3N 120.4E   33KM  5.2  CENTRAL PHILIPPINES
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP        Z    00 24 53        73
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        MJZ    P        ZNE 00 24 54.5        73
               *PP      Z       25 06
        MNG    EP       Z   00 25 01         74

         H  M  S        EPICENTRE    DEPTH   MAG
APR 30  13 39 22.3      6.3S 152.4E  10KM    5.0  NEW BRITAIN
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB    EP       Z   13 46 50         39
        GNZ    EP       Z   13 46 54         40
        MNG    P        Z   13 46 55.7       40
        MSZ    P        Z   13 47 04.0       41
               PCP      Z       48 54.0
        MJZ    EP       Z   13 47 01         41

         H  M  S        EPICENTRE    DEPTH   MAG
APR 30  15 15 34.3      13.5N 120.5E 96KM    5.9  CENTRAL PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P        Z   15 26 54.2       72
               PCP      Z       27 19.7
        AFI    S        ZE  15 36 20         72
               LQ       N       46 10
               LR       ZNE     49
        COB    EP       Z   15 26 57         73
        KRP    P        Z   15 26 59.0       73
               PCP      Z       27 14
        MJZ    P        ZNE 15 27 00.7       73 -0.90                        6.1
               (*PP)    Z       17
               E        Z       44
        MNG    EP       Z   15 27 06         74
        GNZ    P        ZNE 15 27 09         73
               *SP      Z       30
               E        Z       50

         H  M  S        EPICENTRE    DEPTH   MAG
APR 30  16 07 08.6      13.6N 120.5E 66KM    5.3  CENTRAL PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    EP       Z   16 18 28         72
        KRP    EP       Z   16 18 32         73
        MJZ    P        ZNE 16 18 34.0       73
        MNG    EP       Z   16 18 38         74

APR 30  ONE    P        E   20 08 53.5
        ECZ    P        Z   20 08 54
               S        Z       10 26
        WTZ    EP       Z   20 08 56.0
               I        Z       09 00.1
               S        Z       10 31
        CRZ    P        ZNE 20 08 56
        GNZ    EP       ZNE 20 09 00.6
               I        ZNE     10 05.7
               S        ZNE     38.0
        KRP    EP       Z   20 09 04
               I        ZNE     06.5
        TUA    P        Z   20 09 07.5
               ES       Z       10 44
        CNZ    P        Z   20 09 16.0
        TNZ    EP       Z   20 09 23
        MNG    P        Z   20 09 27.0         -0.49
               I        Z       29.9
               S        Z       11 26
        WEL    P        ZNE 20 09 38
               S        ZNE     11 41
        COB    EP       Z   20 09 42
               ES       Z       11 51
        MSZ    EP       Z   20 10 39
               ES       Z       13 34
        AFI    P        ZNE 20 10 51
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APR 30   KRP   EP       Z   23 49 16
         MNG   EP       Z   23 49 46
         MJZ   EP       Z   23 50 27

MAY 01   RAO   EP       Z   02 20 49,5
               S        Z       21 22

          H  M  S       EPICENTRE    DEPTH   MAG
MAY 01   03 34 33.0     15.4S 167.7E 132KM   4.5  NEW HEBRIDES
                            H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
         NDF   P        Z   03 36 55.6       10
         CRZ   P        ZNE 03 38 53         19
         AFI   P        ZE  03 39 00         20
         KRP   P        ZNE 03 39 33.0J      23 -0.75                       5.7
         MNG   P        Z   03 39 54.6       25
         COB   P        Z   03 39 55         26
         MJZ   P        ZNE 03 40 19         29 -1.13                       5.4
         MSZ   P        Z   03 40 30         29
         SBA   IP       ZNE 03 44 44.3J      62 -0.70                       6.4

          H  M  S       EPICENTRE    DEPTH   MAG
MAY 01   10 34 24.3     32.7S 178.5W  33KM   4.9  S. OF KERMADEC IS
                            H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
         RAO   EP       Z   10 35 15         3
               S        Z       58
         GNZ   EP       ZNE 10 35 55         7
         KRP   EP       ZNE 10 36 04         7
         CRZ   EP       ZNE 10 36 18         8
         MNG   P        Z   10 36 28         9
         MJZ   EP       Z   10 37 36        14
         MSZ   EP       Z   10 37 55        16
         AFI   EP       ZNE 10 38 54        20
               ES       ZNE     42 36
               ET       ZNE     59 05
         RAR   EP       ZNE 10 38 57        20
               ES       ZNE     42 42
         SBA   EP       Z   10 42 44        46
               ES       ZNE     49 36

MAY 01   SBA   EIP      Z   13 15 40.0DS
               IS       ZNE     16 18.0

MAY 01   MSZ   P        Z   13 33 08

MAY 01   MSZ   P        Z   14 07 00

          H  M  S       EPICENTRE    DEPTH   MAG
MAY 01   17 23 11.5     28.0N 142.8E  33KM   5.1  BONIN IS
                            H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
         KRP   EP       Z   17 34 35         72
         COB   EP       Z   17 34 44         74
         MNG   P        Z   17 34 47         75

          H  M  S       EPICENTRE    DEPTH   MAG
MAY 01   18 44 38.2     11.4S 166.4E 104KM   4.6  SANTA CRUZ IS
                            H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
         NDF   EP       Z   18 47 43         12
         KRP   EP       Z   18 50 18         28
         MNG   P        Z   18 50 38         30
         COB   EP       Z   18 50 44         30
         MSZ   P        Z   18 51 07         33
         SBA   P        Z   18 55 18.0       66
               *PP      Z       43.5
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          H  M  S        EPICENTRE     DEPTH  MAG
MAY 01   19 57 18.5     4.8N 125.2E  137KM  5.1  S. OF MINDANAO
                    H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ   P    Z  19 17 27.8      62 -1.21                    5.8
         MJZ   P    Z  19 17 34.7      63 -1.12                    5.9
               E    Z     18 13
         SBA   EP   Z  19 19 43         86

          H  M  S        EPICENTRE     DEPTH  MAG
MAY 01   19 45 57.5     4.4S 103.1E   90KM  5.4  S. SUMATRA
                    H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MJZ   P    Z  19 57 05         71
         COB   P    Z  19 57 13         72
               (PDP) Z     30
         KRP   P    Z  19 57 25         73
         MNG   EP   Z  19 57 22         74
         SBA   EP   Z  19 58 01         80
               *PP  Z     17.9

          H  M  S        EPICENTRE     DEPTH  MAG
MAY 02   03 10 24.1     5.6N 124.6E  387KM  5.2  MINDANAO
                    H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   P    Z  03 19 35.2      57
         MSZ   P    Z  03 20 15.1      63 -1.02                    5.7
         COB   P    Z  03 20 18.9      64 -0.88                    5.9
         KRP   P    ZNE 03 20 20.9     64 -0.81                    6.0
         MJZ   P    Z  03 20 21.7USW   64 -0.69                    6.1
         WEL   P    Z  03 20 26.7      65 -0.56                    6.3
         AFI   IP   ZNE 03 20 34  D     66 -0.93                    5.8
         SBA   IP   ZNE 03 22 25.9J    86

MAY 02   MNG   P    Z  06 09 32

          H  M  S        EPICENTRE     DEPTH  MAG
MAY 02   06 56 23.4     5.2N 100.3W   33KM  5.8  EAST PACIFIC OCEAN
                    H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAR   EP   ZNE 07 07 00         64
                S   ZNE    15 38
                PS  ZNE    16 00
                L   ZNE    25 30
         AFI   P    Z  07 07 54         73
                S   ZNE    17 28
                SS  ZN     22 12
                SSS ZN     25 40
                LR  ZNE    30
         NDF   P    Z  07 08 55.2       84
         KRP   P    ZNE 07 09 15.4      89 -0.50                    6.9
         CRZ   EP   Z  07 09 26         90
         COB   P    Z  07 09 26         91 -0.84                    6.6
         MJZ   P    Z  07 09 36         93
               E    Z     54
         SBA   EP   Z  07 09 57         96
               E(PPP) ZE    15 12

MAY 02   SBA   P    Z  06 58 03.4

MAY 02   SBA   P    ZNE 07 46 53.3

          H  M  S        EPICENTRE     DEPTH  MAG
MAY 02   07 51 24.1     16.8S 167.5E   24KM        NEW HEBRIDES
                    H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   P    Z  07 54 48.3       10
         KRP   P    ZNE 07 56 22        22
         MNG   P    Z  07 56 44         25
               *SP  Z     54
         COB   EP   Z  07 56 46         25
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MAY 02  AFI   IP       ZNE 12 16 35.5J
              S        ZNE    17 00

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 02  15 38 09.2     3.6N 126.1E  11KM        S. OF MINDANAO
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   15 48 23.8       61
        KRP   P        Z   15 48 29         62
        MJZ   P        ZNE 15 48 29         62
              E        Z      51
        MNG   EP       Z   15 48 35         63
        SBA   P        ZNE 15 50 43.5       84

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 03  02 07 26.2     17.4S 167.6E  26KM  4.6  NEW HEBRIDES
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z   02 09 47.2        9
        AFI   P        Z   02 12 14          20
        KRP   P        ZNE 02 12 16          22
        GNZ   P        ZNE 02 12 32          23
        MNG   P        Z   02 12 41          24
        SBA   P        ZNE 02 17 36.8        60

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 03  04 49 06.8     51.4N 179.2W  56KM  5.3  ALEUTIAN IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        ZNE 05 01 56         89
        MNG   P        Z   05 02 06         92
        COB   P        Z   05 02 10         92

MAY 03  MNG   EP       Z   08 12 14
              ES       Z      14 05

MAY 03  CRZ   EP       Z   08 56 31
        ONE   P        Z   08 56 41
        GNZ   S        ZNE 08 59 24
        KRP   EP       Z   08 56 55
        MNG   P        Z   08 57 20
              S        Z      59 59
        SBA   P        Z   09 02 36.6

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 03  13 07 48.5     4.4N 126.7E  93KM  4.9  S. OF MINDANAO
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   13 18 00         62

MAY 03  MNG   P        Z   15 44 54

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 03  18 12 03.1     20.0S 173.8W  33KM  4.6  TONGA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   EP       ZNE 18 13 33          6
              S        ZNE    14 44
              T        ZNE    19 42
        NDF   EP       Z   18 14 19.8        9
        KRP   EP       Z   18 16 39         20
        COB   EP       Z   18 17 22         24
        SBA   P        ZNE 18 22 03.0       59

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 03  18 48 33.4     12.9S 166.3E  30KM  4.8  SANTA CRUZ
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z   18 51 29.0       12
              E        Z      52 18
        AFI   P        Z   18 53 20         21
              S        ZNE    57 24
        KRP   EP       Z   18 54 26         25
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        COB    P        Z   18 54 48.8      29
        MNG    P        Z   18 54 43        29
        MJZ  E(P)       Z   18 54 56.5      31
             (*PP)      Z      55 07
        SBA    P        ZNE 18 59 12.0      65
               EL       ZNE 19 21

         H  M  S        EPICENTRE    DEPTH  MAG
MAY 03  20 10 23.9      4.7S 153.7E  119KM        NEW IRELAND
                           H  M  S  DIR DIS LGMAMT  AZ TZ  AN TN  AE TE  MAG
        KRP  (*PP)      Z   20 18 11.9      39
        GNZ  (*PP)      Z   20 18 25        40
        MNG  (*PP)      Z   20 18 15.7      41
        MSZ    P        Z   20 18 02.6      42 -1.0I                      5.7
        SBA  (P)        ZN  20 22 11.0      73

         H  M  S        EPICENTRE    DEPTH  MAG
MAY 04  00 06 17.0      6.6S 154.3E   38KM  4.7  SOLOMON IS
                           H  M  S  DIR DIS LGMAMT  AZ TZ  AN TN  AE TE  MAG
        NDF    P        Z   00 11 44.1      25
        KRP    P        Z   00 13 41.0      37
        MSZ  EP         Z   00 14 00        40

MAY 04  AFI    P        ZNE 02 58 17
               S        ZNE     32

         H  M  S        EPICENTRE    DEPTH  MAG
MAY 04  03 50 28.9      33.5N 141.0E  45KM  5.5  E. OF HONSHU
                           H  M  S  DIR DIS LGMAMT  AZ TZ  AN TN  AE TE  MAG
        AFI    P        Z   04 01 24        65
        KRP    P        ZNE 04 02 25.6      78 -0.79                      6.3
        CNZ    IP       Z   04 02 32.0J     79 -0.92                      6.2
        MNG    P        Z   04 02 37.2J     80
               (*PP)    Z       54
        MSZ    P        Z   04 02 44        82
        MJZ    P        ZNE 04 02 44        82

         H  M  S        EPICENTRE    DEPTH  MAG
MAY 04  04 11 35.0      10.7S 113.7E  33KM  5.8  S. OF JAVA
                           H  M  S  DIR DIS LGMAMT  AZ TZ  AN TN  AE TE  MAG
        MSZ    P        Z   04 21 26        57
               *PP      Z       36.6
        MJZ    P        ZNE 04 21 33.2      59
               I*SP     ZN      46.1
               I        Z       56.9
        KRP  EP         Z   04 21 54.5      61
               *PP      Z   22 05.8
               (PCP)    Z      46
        MNG    P        Z   04 21 56.2      62
        NDF  EP         Z   04 22 04        62
        SBA    IP       Z   04 22 58.8      72
               EL       ZNE    48
        AFI    P        Z   04 23 04        73 -1.30                      5.8

         H  M  S        EPICENTRE    DEPTH  MAG
MAY 04  07 48 17.2      15.9S 167.5E  45KM  6.1  NEW HEBRIDES
                           H  M  S  DIR DIS LGMAMT  AZ TZ  AN TN  AE TE  MAG
        NDF    IP       Z   07 50 40.8D     10
               ES       Z      52 45.5
               (PCP)    Z      57 02.8
               SCP      Z   08 00 08.9
        RAO EIP         Z   07 52 38        19
               (S)      Z      56 26
        CRZ    P        Z   07 52 38.8JSE   19
        AFI    IP       ZNE 07 52 49  DSW   20  0.67                      6.9
               PP       ZNE     53 00
               S        ZNE     56 32
               LR       ZNE     58                    137 22        155 21
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        KRP  EIP      ZNE 07 53 20.8JSE   23  1.19                          7.5
                S      NE    57 32
                SCS    NE 08 04 30
        GNZ   IP       ZNE 07 53 33.8J     24  0.41                          6.8
                SCS    NE 08 04 37
        MNG  EIP       Z   07 53 43.0J     26  0.28                          6.7
                PCP    Z      37 13
        WEL   IP       ZNE 07 53 47.7JSE   26  0.83   72 14                  7.2
                I      Z      58.3
                I      Z      54 12.1
                 PP    Z      35.8
               E       Z      58 08
                S      NE        33
                LQ     NE 08 00
                LR     ZNE    01
        MJZ     P      Z   07 54 06.1J     29
                PCP    Z      57 20.5
                SCP    Z   08 00 58
                SCS    Z      04 52.5
        HSZ   IP       Z   07 54 12.0J     29  0.19                          6.7
        RAR   IP       ZNE 07 54 37.2J     31 -0.93                          5.9
              EPP      ZNE    55 40
              ES       ZNE    59 40
              EL       ZNE 08 02 00
        CBZ     P      Z   07 55 21        37
        SBA   IP       ZNE 07 58 34.1JSE   62
                S      ZNE 08 07 22
                PS     NE        40
                SS     NE    11 18
              ILQ      E     14 03
                LR     ZN    17 18
              E        Z     27 06
                PKPPKP ZNE       31

MAY 04  KRP     P      Z   08 26 53

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 04  09 09 34.8    21.6S 173.9W   22KM  5.0  TONGA
                                H  M  S   DIR DIS LQ A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P      ZNE 09 11 22          8
                S      ZNE    12 40
                T      ZNE    18 34
        RAO   EP       Z   09 11 39          8
                S      Z      13 15
        NDF     P      Z   09 11 49.4        9
              ES       Z      13 28
        RAR   EP       ZNE 09 12 31         13
              ES       ZNE    15 27
        GNZ     P      Z   09 13 59         18
        KRP     P      Z   09 13 58         19
        MNG     P      Z   09 14 20.8       21
        MJZ   EP       Z   09 15 16         26
        HSZ   EP       Z   09 15 27         27
        SBA   EP       Z   09 19 27         57

MAY 04  NDF     P      Z   09 24 56.2
        AFI     P      Z   09 25 22

MAY 04  NDF   EP       Z   11 35 26

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 04  11 46 59.3    16.0S 167.6E   41KM       NEW HEBRIDES
                                H  M  S   DIR DIS LQ A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP?      Z   11 49 17         10
        KRP   EP       Z   11 52 07         23
        MNG     P      Z   11 52 25.5       25
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          H  M   S        EPICENTRE    DEPTH   MAG
MAY 04   14 10 48.9     13.1S 166.3E   46KM   4.4  NEW HEBRIDES
                                H  M   S  DIR DIS LGM AZT  AZ TZ  AN TN  AE TE  MAG
         NDF   EP          Z   14 13 40.5      12

MAY 04   AFI   EP          ZNE 16 54 11
               S           ZNE    55 17

MAY 04   WTZ    P          Z   16 56 59.5
         KRP    P          Z   16 57 06
         MNG    P          Z   16 57 26.5
         NDF    P          Z   16 58 52

MAY 04   AFI   EP          Z   16 59 20
               (S)         NE  17 00 14

MAY 04   RAO   EP          Z   18 30 16
               ES          Z       57

          H  M   S        EPICENTRE    DEPTH   MAG
MAY 04   21 40 00.9     35.1N  23.6E   46KM   5.9  CRETE
                                H  M   S  DIR DIS LGM AZT  AZ TZ  AN TN  AE TE  MAG
         SBA   EPKP        Z   21 59 19      134
               E           ZNE        23.0
               IPP         Z   22 02 40.1
               (SKP)       ZNE    03 00
         NDF    PKP        Z   21 59 51.20   151
         MSZ    PKP        Z   21 59 46      151
                PKP        Z          51.0
                PKP        Z          56
                PKP2       Z   22 00 05
         MJZ    PKP        Z   21 59 55      153
                PKP2       Z   22 00 07
                PKP        Z          20
         AFI    PKP        Z   21 59 52      155
                PP         Z   22 03 44
                SKS        Z       07 03
                SKKS       ZN      14 32
               E           ZN      17 12
               E           Z       18 48
                SSP        ZE      24 16
                SSS        N       29 00
         COB    PKP        Z   21 59 58.5    155
         WEL    PP         Z   22 04 23      157
         KRP    PKP        Z   22 00 31      157
                PKP2       Z          46

MAY 05   KRP    P          ZNE 03 01 44.7
         WTZ    P          Z   03 01 48.5
         CNZ    P          Z   03 01 56
         GNZ    P          Z   03 01 58
         MNG    P          Z   03 02 06
         SBA    IP         Z   03 06 58.20

          H  M   S        EPICENTRE    DEPTH   MAG
MAY 05   10 16 11.1     23.0N 121.5E   55KM   5.2  TAIWAN
                                H  M   S  DIR DIS LGM AZT  AZ TZ  AN TN  AE TE  MAG
         AFI    P          Z   10 27 50.       79
         MSZ    P          Z   10 28 15.7      80
         MJZ    P          Z   10 28 16        80
         CNZ    P          Z   10 28 17        80
         MNG    P          Z   10 28 22.0      81

MAY 05   MSZ    P          Z   10 31 45.9
               E           Z       32 13
         MNG    P          Z   10 32 02
         KRP    P          Z   10 32 46.4
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MAY 05	AFI	EP		Z		16	29	23											
		S		ZNE			31	06											
		T		ZNE			38	35											
	H	M	S	EPICENTRE			DEPTH	MAG											
MAY 05	19	38	33.4	55.3S		29.2W	33KM	5.3	SOUTH SANDWICH IS										
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		Z		19	47	04			47								
	MSZ	P		Z		19	50	39			79								
	KRP	P		Z		19	51	05.5			83								
	H	M	S	EPICENTRE			DEPTH	MAG											
MAY 05	23	16	27.9	4.2S		152.7E	32KM	5.6	NEW BRITAIN										
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P		Z		23	22	15.5			28								
	AFI	EP		ZNE	23	23	32				36								
		PP		ZE			24	52											
		S		ZNE			29	16											
		SS		ZNE			31	40											
		LQ		NE			33												
		LR		Z			34												
	RAO	EP		Z		23	23	39			37								
	KRP	EIP		ZNE	23	23	58.8	DNW	40	0.08									6.9
		PP		Z			25	36.3											
		PCP		Z			26	06											
		SCP		Z			29	56											
		ES		NE			30	05											
		SCS		NE			34	10											
	GNZ	P		ZNE	23	24	12				41								
		S		ZNE			30	25											
		SCS		NE			34	17											
	MNG	IP		Z		23	24	15.5U			42								
		I		Z				35											
		PP		Z			25	57											
		PCP		Z			26	14											
		SCP		Z			30	03.2											
		SCS		Z			34	18.7											
	WEL	P		Z		23	24	18			42								
		PP		Z			26	06											
		S		ZNE			30	31											
		SS		NE			33	38											
		LQ		NE			34												
		LR		Z			36												
	MJZ	P		ZNE	23	24	23.7U				43								
		PCP		Z			26	17.5											
		SCP		Z			30	08.7											
		S		ZNE				45											
		ESCS		N			34	22											
	RAR	EP		ZNE	23	25	15				49								
		ES		ZNE			32	24											
		EL		ZNE			38	10											
	SBA	IP		ZNE	23	28	00.9U				74								
		I+PP		Z				13.3											
		S		ZNE			37	36											
		SS		ZN			42	28											
MAY 06	KRP	EP		Z		01	04	34											
	COB	EP		Z		01	04	49											
	MNG	P		Z		01	04	54.5											
	MSZ	P		Z		01	05	05											
	H	M	S	EPICENTRE			DEPTH	MAG											
MAY 06	03	25	25.3	20.9S		179.0W	615KM	4.5	FIJI REGION										
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	IP		Z		03	26	57.6U			5								
	AFI	P		ZNE	03	27	41				10								
		S		ZNE			29	28											

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        CRZ    P        ZNE 03 28 39        15
        KRP    P        ZE  03 28 57.7      18
        GNZ    P        Z   03 28 59.5      18
        MNG    P        Z   03 29 19        20
               ES       Z       32 31
                SCP     Z       35 45
        COB    P        Z   03 29 28        21
        MJZ    P        Z   03 30 09        25
        MSZ    P        Z   03 30 13.6      26
        SBA    P        Z   03 34 19.1      57

MAY 06  AFI    IP       ZNE 03 40 51.80
               S        ZNE     41 25

MAY 06  MSZ    P        Z   04 32 39.2
        MJZ    EP       Z   04 32 51
        MNG    (P)      Z   04 33 32
               (P)      Z       47.2
        GNZ    EP       Z   04 33 49
        KRP    P        ZNE 04 33 57.7

         H  M  S         EPICENTRE    DEPTH  MAG
MAY 06  04 28 33.9      62.2S 164.8E   33KM        BALLENY IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    IP       ZNE 04 32 14.3US    16
               I        Z       20.3
                S       E       35 27
                L       ZNE     37
        AFI    ES       ZNE 04 45 00        51
                ESS     NE      48 41
                 LR     ZN      52

MAY 06  AFI    P        ZNE 13 10 36
               S        ZNE     12 10
        WTZ    P        Z   13 12 21
        KRP    IP       ZNE 13 12 27.00
        GNZ    P        ZNE 13 12 27
        MNG    P        Z   13 12 46
        COB    P        Z   13 12 57
        SBA    P        Z   13 17 45.2

MAY 06  SBA    EP       Z   14 53 16
                LQ      N   15 00
                LR      ZNE     01
        MNG    P        Z   14 54 30.0
        KRP    P        Z   14 54 44
        AFI    P        Z   14 56 23
               S        ZNE 15 04 12
              (LQ)      NE      09 32
              (LR)      ZN      10 24

MAY 07  AFI    (P)      ZNE 09 50 38

         H  M  S         EPICENTRE    DEPTH  MAG
MAY 07  14 54 39.9      33.6N 140.7E   74KM   4.3  S. OF HONSHU
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z   15 06 33.0        79
        MNG    P        Z   15 06 44.2        81
        MSZ    P        Z   15 06 51          82

MAY 07  MNG    P        Z   16 07 25.4
        MSZ    P        Z   16 07 11

         H  M  S         EPICENTRE    DEPTH  MAG
MAY 07  16 39 41.8      4.8S 153.8E   103KM  5.3  NEW IRELAND
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    EP       Z   16 45 41.2        26
        AFI    P        Z   16 46 30          35
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                S       ZNE     51 56
                SS      ZNE     54 28
                SCS     ZE      56 24
          KRP   P       Z   16 46 57.0      38
                *PP     Z       47 18.2
                PP      Z       49 54.
          COB   P       Z   16 47 07        40
                *PP     Z           30
          MNG   P       Z   16 47 12        41
                *PP     Z       34.6
          WEL   P       Z   16 47 15        41
                S       NE      53 09
                *SS     E       49
                SS      NE      56 38
              E         NE      57 04
          MSZ   P       Z   16 47 21.0      42
          MJZ   P       ZNE 16 47 22        42
          SBA   EP      Z   16 51 04        73
                S       ZNE 17 00 29
                SCS     NE      01 08
                SS      NE      05 53

           H  M   S       EPICENTRE    DEPTH  MAG
MAY 07    17 20 22.6    14.9S 167.6E   31KM   5.2  NEW HEBRIDES
                          H  M   S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
          NDF   P       Z   17 22 48.9      10
          CRZ   P       ZNE 17 24 56        20
          KRP   P       ZNE 17 25 36.5      24
          MNG   P       Z   17 25 58        27
          MJZ   P       Z   17 26 24.8      29

           H  M   S       EPICENTRE    DEPTH  MAG
MAY 07    18 57 55.8     4.9S 153.8E  108KM   4.2  NEW IRELAND
                          H  M   S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
          MSZ   EP      Z   19 05 33        42

           H  M   S       EPICENTRE    DEPTH  MAG
MAY 07    22 06 30.1    53.7S 134.2W    33KM   5.4  PACIFIC-ANTARCTIC R.
                          H  M   S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
          SBA   EP      Z   22 12 56        32
                PP      Z       13 57
                S       NE      18 14
                SS      NE      20 04
          GNZ   EP      Z   22 13 27        36
          WEL   P       Z   22 13 37        36
                PP      Z       14 53
                S       NE      19 27
                SS      NE      21 56
                L       Z       23
          MJZ   P       Z   22 13 39        37
              E         Z           56
          KRP   P       Z   22 13 42        38
          CRZ   P       Z   22 13 54        42
          AFI   P       Z   22 15 17        49
                S       ZNE     22 32
                SSS     ZNE     27 00
                LR      ZN      29

MAY 07    MSZ   EP      Z   23 28 04.5
          KRP   EP      Z   23 29 20

           H  M   S       EPICENTRE    DEPTH  MAG
MAY 08    00 37 03.4     4.2S 129.5E    33KM   5.6  BANDA SEA
                          H  M   S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
          MJZ   P       Z   00 46 21.8      54
          MNG   P       Z   00 46 31        55
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          H  M  S       EPICENTRE    DEPTH  MAG
MAY 08    04 21 08,9    13,4N 120,5E  33KM  4,8  CENTRAL PHILIPPINES
                           H  M  S   DIR DIS LG AZ TT  AZ TT  AN TN  AE TE  MAG
          MJZ   P       Z   04 32 36,5      73

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 08    06 18 57,8    1,1S 138,4E   33KM  5,7  WEST IRIAN
                           H  M  S   DIR DIS LG AZ TT  AZ TT  AN TN  AE TE  MAG
          CRZ   P       Z   06 27 22,0      46
          KRP   P       Z   06 27 53       50
          MSZ   P       Z   06 27 56,3     51 -1,02                        6,0
                ePP     Z      28 06,6
          AFI   E       Z   06 28 15       51
                S       ZNE    35 28
                LR      ZNE    43
          MNG   IP      Z   06 28 03,10    52 -0,86                        6,2
                ePP     Z      15

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 08    08 32 28,2    12,8S 166,3E  58KM  4,2  SANTA CRUZ IS
                           H  M  S   DIR DIS LG AZ TT  AZ TT  AN TN  AE TE  MAG
          NDF   EP?     Z   08 35 20       12
                I       Z      23,20
          MSZ   P       Z   08 38 48       32

MAY 08    RAO   IP      Z   08 35 01,50
                S       Z      36 12

MAY 08    WTZ   P       Z   12 00 57,7
          GNZ   P       Z   12 01 02
                S       NE     02 19
          KRP   P       Z   12 01 05
          TRZ   ES      Z   12 02 43
          MNG   P       Z   12 01 28
                S       Z      03 08

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 08    16 15 16,7    19,4S 176,3W  71KM  5,4  FIJI REGION
                           H  M  S   DIR DIS LG AZ TT  AZ TT  AN TN  AE TE  MAG
          NDF   P       Z   16 15 46,8       6
          AFI   P       ZNE 16 16 48         7
                S       ZNE    18 00
          RAR   EP      ZNE 16 18 44,5      16
          CRZ   P       ZN  16 19 23,6      19
          KRP   P       ZNE 16 19 40,0      20
                ES      E      23 26
          MNG   P       Z   16 20 04,2      22
          WEL   P       Z   16 20 17        23
                (PP)    Z      59
                S       NE     24 22
                SS      NE     25 36
                L       Z      27
          MJZ   EP      Z   16 20 54        27
          SBA   ES      NE  16 33 25        59

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 08    16 24 17,3    4,7S 153,8E   41KM  5,5  NEW IRELAND
                           H  M  S   DIR DIS LG AZ TT  AZ TT  AN TN  AE TE  MAG
          COB   P       Z   16 31 50       40
          MNG   P       Z   16 31 54       41
          MSZ   P       Z   16 32 03,7     42 -0,95                        5,8
          MJZ   P       Z   16 32 03       42

MAY 08    KRP   P       Z   16 39 59,5
          GNZ   EP      Z   16 40 17
          MNG   P       Z   16 40 27
          MSZ   (P)     Z   16 41 14,2
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              E       Z          22.5

          H  M  S      EPICENTRE    DEPTH  MAG
MAY 08   17 40 42.1   26.4S 177.8W  187KM  4.8  S. OF FIJI
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO   P       Z   17 41 31          3
               (S)     Z      42 11
         NDF   P       Z   17 42 57.3       10
         GNZ   ES      NE  17 45 51         13
         AFI   (P)     Z   17 43 57         14
               (S)     NE     46 13
         MNG   P       Z   17 44 04.3       15
               ES      Z      46 46

          H  M  S      EPICENTRE    DEPTH  MAG
MAY 08   17 43 38.7    5.0S 103.5E   33KM  5.3  S. SUMATRA
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ   P       Z   17 54 40         68
         MJZ   P       Z   17 54 48         70
         MNG   P       Z   17 55 08.7       73

MAY 08   AFI   IP      ZNE 18 20 42  U
               S       ZNE    21 17

MAY 08   KRP   P       Z   18 34 49.5
         MNG   P       Z   18 35 10
         COB   P       Z   18 35 22

MAY 08   MNG   P       Z   18 50 52.5
         MSZ   P       Z   18 51 02
         SBA   EP      Z   18 56 39

NDF TIMING UNRELIABLE 9TH - 24TH MAY

MAY 09   KRP   (P)     Z   04 09 12.5
         COB   P       Z   04 09 20.5
         MNG   P       Z   04 09 27  U

          H  M  S      EPICENTRE    DEPTH  MAG
MAY 09   05 03 40.8    31.0S 179.9W  370KM      KERMADEC REGION
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         ONE   P       E   05 05 22          7
         CRZ   P       ZNE 05 05 25.8        7
         GNZ   P       Z   05 05 28          8
               I       Z      31
               IS      ZNE    06 54
         KRP   P       Z   05 05 34          9
               ES      NE     07 05
         CNZ   P       Z   05 05 44.8        9
               S       Z      07 22
         MNG   EP      Z   05 05 56          10
               I       Z      57.4
               S       Z      07 48
               (SCP)   Z      15 44
               (SCS)   Z      19 37.5
         WEL   P       Z   05 06 07.6        11
               S       Z      08 06
         COB   P       Z   05 06 13.6        12
         MJZ   P       Z   05 06 55          15
               S       Z      09 30
         RAO SEISMOMETER NOT WORKING

          H  M  S      EPICENTRE    DEPTH  MAG
MAY 09   05 51 47.4    4.8S 153.7E  127KM      NEW IRELAND
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNG   P       Z   05 59 15.8        41
         MSZ   P       Z   05 59 24          42
         MJZ   EP      Z   05 59 24          42
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MAY 09	KRP	P	Z	10	46	09.4															
	GNZ	EP	Z	10	46	14.6															
		ES	NE		48	50															
	MNG	P	Z	10	46	31.8															
		I	Z			32.7															
		S	Z		49	25															
	COB	P	Z	10	46	44															
MAY 09	KRP	P	Z	12	24	04.6															
	GNZ	P	Z	12	24	06															
	GNZ	E(P)	Z	12	24	11															
	COB	P	Z	12	24	13															
	MNG	P	Z	12	24	18.2															
	MJZ	P	Z	12	24	24															
	H	M	S	EPICENTRE				DEPTH	MAG												
MAY 09	12	20	22.6	17.8S		178.9W		568KM	5.8	FIJI REGION											
					H	M	S	DIR	DIS	LG	AZ/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI	IP	ZNE	12	22	16	D		8												
		S	ZNE			23	48														
	RAR	EP	ZNE	12	24	02.2			18												
	CRZ	EIP	ZNE	12	24	05.0			18		0.79										7.3
		S	ZNE			26	55														
		SCP	Z			30	51.5														
	ONE	P	E	12	24	11.2			19												
		E	E			27	19														
		I	E				25														
		SCP	E			30	53.5														
	GBZ	P	Z	12	24	12			19												
	ECZ	EP	Z	12	24	18			20												
	WTZ	P	Z	12	24	21			20												
	KRP	P	ZNE	12	24	25.2			21		0.05										6.6
		*PP	ZN			25	48														
		ES	NE			27	42														
		I	NE				52														
		SCP	Z			31	09														
		ESCS	N			34	14														
	GNZ	P	ZNE	12	24	25.6			21												
		S	NE			27	39														
		SCP	ZNE			30	55														
	TUA	P	Z	12	24	27.7			21												
		ES	Z			27	48														
	CNZ	P	Z	12	24	33.7			22												
		SCP	Z			30	57														
	TRZ	P	Z	12	24	35			22												
		SCP	Z			30	59														
	TNZ	P	Z	12	24	40.0			22												
	MNG	P	Z	12	24	45.4			23												
		S	Z		28	21.6															
		PCP	Z			32.5															
		SCP	Z		31	01.9															
		SCS	Z		34	46.6															
	WEL	P	ZNE	12	24	53			24		0.01										6.5
		S	NE		28	31.7															
		E	N			46															
		SCP	Z		31	03.0															
		SCS	NE		34	51															
	COB	P	Z	12	24	56.4			24												
		S	Z		28	35															
		SCP	Z		31	08															
	KAI	P	X	12	25	12.6			25												
		S	X		29	02															
	CHR	P	Z	12	25	16.5			27												
	MJZ	P	ZNE	12	25	25			25		-0.42										6.1
		S	NE		29	24															
		SCP	Z		31	14.5															
		PCS	N			56															

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          SCS     ZNE     35 05
     MSZ EIP      Z   12 25 37.6      29
          ePP     Z       27 15
          SCP     Z       31 19.6
     ROX  EP      Z   12 25 40        29
          SCP     Z       31 21.5
     MNW  EP      Z   12 25 37        30  0.04                              6.6
          ePP     Z       27 15
     WPZ  P       Z   12 25 51        31
     CBZ  P       Z   12 26 38        34
     SBA  IP      ZNE 12 29 41.0DN    60 -0.18                              6.2
          ePP     Z       31 33.0

      H  M  S       EPICENTRE    DEPTH  MAG
MAY 09 13 09 59.0  15.6S 175.0W  267KM  5.4  TONGA
                        H  M  S  DIR DIS GAP/T  AZ TZ  AN TN  AE TE  MAG
     AFI  IP      ZNE 13 10 54.7D      4
          S       ZNE    11 56
     RAR  EP      ZNE 13 13 23         15
          ET      ZNE    21
     CRZ  P       ZNE 13 14 33.2       22
     ONE  P       E   13 14 37.5       22
     WTZ  P       Z   13 14 44         23
     GNZ  P       ZNE 13 14 50         24
     KRP  IP      ZNE 13 14 50.1USW    24 -0.42                              6.1
     TUA  P       Z   13 14 53         24
     CNZ  P       Z   13 14 57         25
     MNG  EP      Z   13 15 08         26
          I       Z       11.2
     WEL  P       ZNE 13 15 18.0       27
     COB  P       Z   13 15 22         28
     MJZ  P       Z   13 15 51         31
     MSZ  P       Z   13 16 04.7       32
     MNW  P       Z   13 16 13.8       33
     SBA  IP      Z   13 20 00.3DN     63 -0.70                              6.1
          ePP     Z       59.0

      H  M  S       EPICENTRE    DEPTH  MAG
MAY 09 17 40 29.1  39.6N  26.3E   37KM  4.7  TURKEY
                        H  M  S  DIR DIS GAP/T  AZ TZ  AN TN  AE TE  MAG
     MSZ  PKP?    Z   18 00 26.0      151

      H  M  S       EPICENTRE    DEPTH  MAG
MAY 09 17 44 34.3   4.8S 153.8E  110KM  4.8  NEW IRELAND
                        H  M  S  DIR DIS GAP/T  AZ TZ  AN TN  AE TE  MAG
     KRP  (ePP)   Z   17 52 08         39
     COB  (ePP)   Z   17 52 19         40
     MSZ  P       Z   17 52 11.1       42

      H  M  S       EPICENTRE    DEPTH  MAG
MAY 09 21 26 31.7   4.7S 144.7E  124KM  5.3  BISMARCK SEA
                        H  M  S  DIR DIS GAP/T  AZ TZ  AN TN  AE TE  MAG
     KRP  P       ZNE 21 34 24.6       43
          ePP     Z       52
     COB  P       Z   21 34 29         44
          EePP    Z       55
     MSZ  P       Z   21 34 36         45
     MNG  P       Z   21 34 37.9       45
          ePP     Z       35 04
     MJZ  P       Z   21 34 38.5       45

      H  M  S       EPICENTRE    DEPTH  MAG
MAY 10 04 21 09.8   4.8S 153.8E  111KM  5.2  NEW IRELAND
                        H  M  S  DIR DIS GAP/T  AZ TZ  AN TN  AE TE  MAG
     KRP  E(ePP)  Z   04 28 45         38
     MNG  (ePP)   Z   04 29 02         41
     MSZ  P       Z   04 28 50         42
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	H M S	EPICENTRE	DEPTH	MAG								
MAY 10	05 10 11.7	4.2S 150.2E	33KM	5.0	NEW BRITAIN							
		H M S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP P	Z 05 17 54		41								
	WTZ EP	Z 05 18 00		42								
	MNG P	Z 05 18 09.7		43								
	H M S	EPICENTRE	DEPTH	MAG								
MAY 10	05 48 22.0	4.1S 150.2E	33KM	5.5	NEW BRITAIN							
		H M S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI (SSS)	ZNE 06 04 48		39								
	LR	ZE 06 40										
	KRP P	Z 05 56 04.5		41								
	WTZ P	Z 05 56 11		42								
	MNG EP	Z 05 56 18		43								
	I	Z 26.0										
	GNZ P	ZNE 05 56 19.2		43								
	MSZ EP	Z 05 56 29		43								
	SBA P	Z 05 59 59.2		74								
	S	N 06 09 42										
MAY 10	AFI P	ZNE 11 39 16										
	S	ZNE 36										
	H M S	EPICENTRE	DEPTH	MAG								
MAY 10	17 30 35.0	2.8S 78.7W	69KM	5.4	ECUADOR							
		H M S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	Z 17 43 37.9U		92								
	H M S	EPICENTRE	DEPTH	MAG								
MAY 10	22 53 10.6	0.2S 122.3E	59KM	5.7	SULAWESI							
		H M S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG	
	CRZ P	Z 22 13 00		58								
	MSZ P	Z 22 13 12.5		60	-0.94							6.3
	COB P	Z 22 13 20		61								
	MJZ P	ZNE 22 13 20.0		61								
	MNG P	Z 22 13 29.6		63	-1.41							5.7
	SBA P	ZNE 22 15 21		81								
	H M S	EPICENTRE	DEPTH	MAG								
MAY 11	00 44 58.1	42.8N 144.5E	68KM	5.5	HOKKAIDO							
		H M S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG	
	COB EP	Z 00 57 41		87								
	MNG P	Z 00 57 36.5		88								
	MJZ P	ZNE 00 57 51		89								
	H M S	EPICENTRE	DEPTH	MAG								
MAY 11	03 48 50.7	16.0S 167.7E	61KM	5.2	NEW HEBRIDES							
		H M S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG	
	CRZ EP	ZNE 03 53 11		19								
	AFI P	Z 03 53 24		20								
	WTZ P	Z 03 53 57.8		23								
	GNZ EP	Z 03 54 06		24								
	MNG P	Z 03 54 15.2		25								
	COB P	Z 03 54 16.0		25								
	MJZ P	ZNE 03 54 39		28								
	H M S	EPICENTRE	DEPTH	MAG								
MAY 11	08 00 06.3	4.0S 150.1E	34KM	5.0	NEW BRITAIN							
		H M S	DIR	DIS	AZ	TZ	AN	TN	AE	TE	MAG	
	WTZ EP	Z 08 07 55		42								
	COB EP	Z 08 07 59		42								
	GNZ P	ZNE 08 08 02.5		43								
	MNG P	Z 08 08 03.5		43								

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          H  M  S       EPICENTRE    DEPTH  MAG
MAY 11   20 49 07.6     4.7S 134.1E   39KM  5.2  WEST IRIAN
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MJZ  EP          Z   20 57 57        51
         MNG   P          Z   20 58 11.8      52
         SBA   P          ZNE 21 00 47.3      75

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 11   21 18 29.6     27.6S 179.1W 387KM  5.8  KERMADEC REGION
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO EIP          Z   21 19 17        2
             I            Z         18.5
              S           Z         58
         GBZ   P          Z   21 20 44        10
         ECZ   P          Z   21 20 44        10
               S          Z      22 35
         ONE   P          E   21 20 46        10
         CRZ  IP          ZNE 21 20 46.6US    10   0.49
         WTZ   P          Z   21 20 50        11
         GNZ   P          Z   21 20 53.7      11
               I          ZNE       58
               IS         ZNE    22 51
               (SCP)      Z      28 12
                SCS       ZNE    32 59
              E           N      33 28.5
         KRP   P          ZNE 21 20 58        11
               S          NE     23 03
         TUA  EP          Z   21 21 01        12
               S          Z      23 02
         TRZ   P          Z   21 21 08.2      12
               I          Z         11
               IS         Z      23 17
         TNZ   P          Z   21 21 18.6      13
         MNG   P          Z   21 21 21.0      14
               I          Z         23.2
               IS         Z      23 37
                SCP       Z      29 25
                SCS       Z      32 54.7
         WEL  EP          ZNE 21 21 32        15
               I          ZNE       34.0
               IS         ZNE    24 04
                SCS       NE     33 03
         COB   P          Z   21 21 37        15
               IS         Z      24 19
         AFI   P          ZNE 21 21 42        15
               S          ZNE    24 20
         CIZ   P          ZNE 21 21 56        16
               IS         ZNE    25 02
         KAI   P          X   21 22 02.2      17
               S          X      24 52
         GPZ  EP          N   21 22 05        17
               S          N      25 02
         MJZ   P          Z   21 22 13        18
               I          Z         18
                S         ZNE    25 28
                SCP       ZNE    59 33.5
                SCS       ZNE    33 13
              E           E         23
         RAR  EP          ZNE 21 22 19.5      19
         ROX   P          Z   21 22 31        20
         MSZ   P          Z   21 22 33        20
                *PP       Z      23 30
         MNW   P          Z   21 22 39        21
               I          Z         46.0
         SBA  IP          ZNE 21 26 53.8USW   51  -0.20                    6.2
               I*PP       Z      28 03.9
               (*PPCP)    Z      29 26.0
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            ISCP     Z        31 26.5
             S       N        33 48
             SCS     NE       35 54
             SS      E        38 43
      FELT RADJL IS MM III

MAY 11  RAD   P       Z    21 21 53
              S       Z       22 38
        ECZ   S       Z    21 25 11
        WTZ   S       Z    21 25 23
        GNZ   IS      ZNE  21 25 30
        TUA   S       Z    21 25 37
        TRZ   S       Z    21 25 54
        MNG   E       Z    21 26 16
              IS      Z       22
        WEL   IS      ZNE  21 26 40
        COB   ES      Z    21 26 51.5

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 12  01 21 28.7    24.6N 121.6E  62KM  5.3  TAIWAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       Z    01 33 09        75
              S       E       43 40
              L       ZNE     56
        KRP   P       Z    01 33 34        80
        MSZ   P       Z    01 33 37        81
        MNG   P       Z    01 33 41.3      82
              (*PP)   Z       34 04
        GNZ   P       Z    01 33 44        82
        SBA   EPKP    Z    01 39 47       106

MAY 12  KRP   P       Z    04 38 12
        MNG   P       Z    04 38 32
        COB   P       Z    04 38 42
        SBA   P       Z    04 43 26.0

MAY 12  SBA   P       Z    07 12 39.7

MAY 12  RAD   IP      Z    12 37 56
              S       Z       38 09

MAY 12  RAD   EP      Z    14 22 27
              S       Z       23 15

MAY 12  SBA   EP      Z    14 29 37

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 12  16 34 53.9     6.9S 129.9E 108KM  5.7  BANDA SEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB   P       Z    16 43 49.0      51
        KRP   EP      Z    16 43 53        52
        MNG   P       Z    16 44 00.2      53
        GNZ   EP      Z    16 44 07        54
        SBA   P       ZNE  16 46 17.0      73

MAY 12  AFI   P       Z    17 41 00
              S       ZNE     31
              T       ZNE  43

MAY 12  AFI   P       Z    19 08 15
              S       ZNE     35

MAY 12  WTZ   P       Z    20 30 03
        GNZ   P       ZNE  20 30 09
              S       ZNE     32 10
        KRP   P       ZNE  20 30 09.20
        MNG   EP      Z    20 30 30
        COB   P       Z    20 30 46
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          H  M   S        EPICENTRE    DEPTH  MAG
MAY 13   05 57 07.8      5.7S 151.2E   69KM  5.1  NEW BRITAIN
                              H  M   S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
         GNZ   (*PP)      Z    06 05 03        41
         MNG   P          Z    06 04 47.7      41
         SBA   P          Z    06 08 31.0      73

MAY 13   AFI   P          ZNE  06 24 46
               S          ZNE     25 26

MAY 13   GNZ   P          Z    06 28 44.6
         KRP   EP         Z    06 28 45.0
         MNG   P          Z    06 29 05
         COB   EP         Z    06 29 19

          H  M   S        EPICENTRE    DEPTH  MAG
MAY 13   09 23 34.7      32.0S 178.6W  41KM  5.6  S. OF KERMADEC IS
                              H  M   S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
         RAO   P          Z    09 24 17        3
               I          Z       21
               S          Z       53
         GNZ   P          ZNE  09 25 16.5      7
               I          ZNE     19.5
               IS         ZNE     26 38
         CRZ   P          ZNE  09 25 30.0      8
               ES         ZNE     26 55
         MNG   P          Z    09 25 51        10
               S          Z       27 36
         MJZ   EP         Z    09 26 54        15
               ES         ZNE     29 31
         AFI   P          ZNE  09 27 54        19
               S          ZNE     31 15
               T          ZNE     46
         SBA   IP         Z    09 32 00.40     46
               I*PP       Z       11.8
               PCP        Z    33 33.0
               SCP        Z    37 22.8

MAY 13   AFI   IP         ZNE  09 58 58.60
               S          ZNE     59 18

          H  M   S        EPICENTRE    DEPTH  MAG
MAY 13   14 24 24.7      3.8S  80.7W   40KM  4.9  N. ANDES
                              H  M   S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
         SBA   P          Z    14 37 26.0      91
               *PP        Z       43.2

          H  M   S        EPICENTRE    DEPTH  MAG
MAY 13   15 06 38.2      45.1N  28.1W  33KM  4.8  N. ATLANTIC RIDGE
                              H  M   S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
         SBA   EPKP       Z    15 26 16.0     147

          H  M   S        EPICENTRE    DEPTH  MAG
MAY 13   15 19 35.9      32.7S  71.8W   40KM  5.4  CHILE
                              H  M   S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
         SBA   P          Z    15 30 10.9      64
               *PP        Z       24.0
         MJZ   (P)        ZE   15 32 20        85

MAY 13   SBA   P          ZNE  15 59 02
               E          Z       25

          H  M   S        EPICENTRE    DEPTH  MAG
MAY 13   16 40 22.0      45.0N  28.2W  33KM  5.0  N. ATLANTIC RIDGE
                              H  M   S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
         SBA   PKP        Z    17 00 02.0     147
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          H  M   S       EPICENTRE    DEPTH  MAG
MAY 13   21 44  36.4    32.7S  71.8W   40KM  5.4  CHILE
                            H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA     P        Z   21 55 30.7      64

          H  M   S       EPICENTRE    DEPTH  MAG
MAY 14   05 03  20.1     0.0N 122.9E 193KM  5.4  SULAWESI
                            H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ     P        Z   05 13 07.0      60 -0.89                      5.9
                 *PP      Z         52
         MJZ     P        ZNE 05 13 14.8      61 -1.11                      5.7
                 *PP      Z         57
         KRP     P        ZNE 05 13 19.0      61
                 *PP      Z         59.7
         MNG     P        Z   05 13 24.5      62
         GNZ     P        ZNE 05 13 31        63
         SBA     IP       ZNE 05 15 17.0U     81

          H  M   S       EPICENTRE    DEPTH  MAG
MAY 14   10 23  05.5     5.7N 125.8E 109KM  4.8  MINDANAO
                            H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ     P        Z   10 33 20        63
         MJZ     P        Z   10 33 26        64

          H  M   S       EPICENTRE    DEPTH  MAG
MAY 14   12 01  16.1     40.3N 143.4E  12KM  5.3  E. OF HONSHU
                            H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP  EP          Z   12 14 07        83

MAY 14   AFI  IP          ZNE 21 40 40  J
                S         ZNE         58

          H  M   S       EPICENTRE    DEPTH  MAG
MAY 15   01 57  47.0     4.9S 153.8E 111KM  4.4  NEW IRELAND
                            H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ  EP          Z   02 05 32        42

MAY 15   SBA     P        Z   03 01 35.0

MAY 15   SBA     P        Z   04 39 33.7U

          H  M   S       EPICENTRE    DEPTH  MAG
MAY 15   09 12  55.4     29.7S  71.5W   51KM  4.9  CHILE
                            H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA     P        Z   09 23 46.0      67

          H  M   S       EPICENTRE    DEPTH  MAG
MAY 15   09 14  50.0     2.5S 138.9E  35KM       WEST IRIAN
                            H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA     P        ZN  09 26 39.6      77 -0.90                      6.2

          H  M   S       EPICENTRE    DEPTH  MAG
MAY 15   09 32  54.6     23.6S 179.9E 593KM  5.6  S. OF FIJI
                            H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO     IP       Z   09 34 32.0       6
                 S        Z       35 49
         AFI     P        ZNE 09 35 34  J     12
                 S        ZNE     37 43
         CRZ     P        ZNE 09 35 39        12
                 (*SP)    Z       36 05.0
         ECZ     P        Z   09 35 58        14
         WTZ     P        Z   09 35 57.2      15
                 I        Z       59.1
                 (*SP)    Z       36 19
         KRP     P        Z   09 36 01        15
                 (*SP)    Z       25
                 IS       NE      58 41.0
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        GNZ    P        ZNE 09 36 03          15
               I        ZNE       04.6
               (*SP)    ZNE       28
                S       ZNE    38 40
                SCP     Z      43 17
                SCS     ZNE    46 57
        TUA    P        Z   09 36 06          15
        TRZ    P        Z   09 36 14.0        16
        TNZ    P        Z   09 36 16.8        16
        MNG    P        Z   09 36 23          17
               I        Z          25.0
                S       Z      39 16
               ISCP     Z      43 20.6
                SCS     Z      46 55
        WEL    P        ZNE 09 36 32.8        18
                S       ZNE    39 31
                SCP     Z      43 21
        COB    P        Z   09 36 34.8        18
               I        Z          37.0
                S       Z      39 37
                SCP     Z      43 21
        RAR    EP       ZNE 09 36 39.5        19
        KAI    P        X   09 36 51          20
        CIZ    EP       ZNE 09 36 57          21
        MJZ    P        ZNE 09 37 03.5        22
                SCP     ZNE    43 31
                SCS     NE     47 15
               E        NE         23
        MSZ    P        Z   09 37 19          23
               I        I          21
        ROX    P        Z   09 37 21          23
        MNW    P        Z   09 37 28.5        24
        WPZ    EP       Z   09 37 34          25
        SBA    EIP      Z   09 41 33.8D       55 -0.15                          6.3
               ES       NE     48 39
               IP       3Z  00 94 22.83
                *PP     Z   09 43 23.03
               ISCP     Z      45 34  3

         H  M  S        EPICENTRE    DEPTH  MAG
MAY 15  10 09 40.0     29.7S  69.5W   39KM   5.6  ANDES
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    P        Z   10 20 34.9        68
        MJZ    E(P)     Z   10 22 32          88
        COB    EP       Z   10 22 37          89
        KRP    P        Z   10 22 37          89

         H  M  S        EPICENTRE    DEPTH  MAG
MAY 15  11 21 29.3     55.3S 128.5W   33KM   5.0  PACIFIC-ANTARCTIC R.
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    P        Z   11 27 51.0        31
                S       NE     33 06
        AFI    S        ZE  11 38 31          53
               (SSS)    ZNE    43 20

MAY 15  AFI    IP       ZNE 12 20 23  D

         H  M  S        EPICENTRE    DEPTH  MAG
MAY 15  22 07 31.0     55.2S  33.2W   33KM   4.5  SOUTH GEORGIA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    EP       Z   22 15 58          47

MAY 16  AFI    P        ZNE 03 13 49
                S       ZNE    14 37

MAY 16  AFI    P        Z   06 05 14
                S       ZNE    06 08
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MAY 16  MSZ   P        Z   15 14 03.0

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 17  05 27 51.6    13.4N 119.9E   37KM  5.7  PHILIPPINES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ E(P)        Z   05 39 17       72
              *PP       Z       27
        KRP  EPCP       Z   05 39 32       73
        AFI  EPCP       Z   05 39 32       73
             ES         NE      48 52
              LQ        NE      59
              LR        E   06 02
        MJZ   P         Z   05 39 21.7     73
              *PP       Z       34
        SBA   IP        Z   05 41 24.0     95
              ESCS      Z       54 09

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 17  14 10 30.2    49.9N 154.9E   99KM  5.0  KURIL IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EPKP       Z   14 29 45      128

MAY 17  RAO EIP         Z   20 33 41
             S          Z       58

MAY 18  SBA I(P)        Z   02 02 32
        MNW E(P)        Z   02 02 47
        MSZ   P         Z   02 03 06.5

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 18  02 42 17.7    38.6N 142.6E   39KM  5.2  HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   P         Z   02 54 51       84

MAY 18  AFI   P         ZNE 08 21 59
              S         ZNE     23 12

MAY 18  AFI   P         ZNE 23 12 50

MAY 19  AFI   P         ZNE 00 54 35

MAY 19  AFI   P         ZNE 05 29 59
              S         ZNE     30 17

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 19  09 55 24.2    22.3N 144.2E   70KM  5.2  VOLCANO IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P         Z   10 06 30       70

MAY 19  AFI   P         ZE  11 28 25

MAY 19  AFI   P         ZNE 17 49 28
              S         ZNE     50

MAY 20  RAO   P         Z   00 15 27
              S         Z       16 08

MAY 20  MSZ   P         Z   00 43 57
        MNW   P         Z   00 44 01
        COB   P         Z   00 44 04
        MJZ   P         ZN  00 44 05.6
        MNG   P         Z   00 44 15.8
        SBA   P         Z   00 46 32.3
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          H  M  S       EPICENTRE    DEPTH  MAG
MAY 20    02 34 45.6    15.6S 167.1E  33KM  5.2  NEW HEBRIDES
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          CRZ    P       ZNE 02 39 17        19
          AFI    P       ZNE 02 39 26        20 -0.93                    5.3
                 S       ZNE    43 24
                (SSS)    ZE     44 40
          KRP    P       ZNE 02 39 55.1      23
                 (*PP)   Z      40 06
          MNG    P       Z   02 40 17        26
          MSZ    P       Z   02 40 47        29
          SBA    IP      Z   02 45 07.2      62 -1.10                    6.1

MAY 20    KRP    P       Z   05 29 27.6
          MNG    P       Z   05 29 43.7

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 20    11 02 55.0    10.9S 111.8E  33KM  5.3  S. OF JAVA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MJZ    P       ZNE 11 13 01.6      60
          KRP    P       Z   11 13 20        63
          SBA    EP      Z   11 14 19        72

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 20    21 26 07.2    53.5N 160.0W  33KM  5.2  S. OF ALASKA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA    EPKP    Z   21 45 19.5    133

MAY 21    RAO    IP      Z   00 42 42.5U
                 S       Z      43 04
          WTZ    P       Z   00 44 03
          GNZ    P       ZNE 00 44 08
                 S       ZNE    45 41
          KRP    EP      Z   00 44 09
          MNG    P       Z   00 44 32
                 I       Z      35.7
                 S       Z      46 36
          WEL    EP      Z   00 44 45
                 ES      ZNE    46 53

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 21    01 24 07.9    18.6S  69.3W 132KM  5.2  N. CHILE
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA    EP      Z   01 35 57        79 -1.45                    5.4

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 21    03 50 30.9    16.0S  73.9W  85KM  5.4  PERU
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA    EP      Z   04 02 20        80
                 E*PP    Z      52

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 21    06 51 54.4    27.1S 174.9E  33KM  5.5  N. OF NORTH I., N.Z.
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO    IP      Z   06 03 23.00      7
                 (S)     Z      04 49
          CRZ    P       ZNE 06 03 41         8
                 ES      NE     05 01
                 T       Z      10
          KRP    P       ZNE 06 04 29.1      11
          WTZ    P       Z   06 04 31.7      11
          GNZ    P       ZNE 06 04 42.3      12
          MNG    P       Z   06 05 03.6      13
                 I       Z      08.5
                 (*SP)   Z      19.0
          WEL    P       Z   06 05 13.3      14 -0.35
                 I       Z      17
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                (eSP)   Z          26.0
                (PP)    Z          43
                 S      ZNE     07 58
                 LQ     E       08
                 LR     ZN      09
          MJZ EIP       ZNE 06 05 53.1      17  0.0i                        6.1
          AFI   P       ZNE 06 05 59        18
                S       ZNE     09 12
                SS      E       40
                LR      Z       10 57
          MSZ   P       Z   06 06 08.00     19 -0.16                        6.0
          RAR   EP      ZNE 06 07 06        24
                ES      ZNE     11 35
                EL      ZNE     12 40
          SBA   IP      Z   06 10 54.10     51
                ES      ZN      18 20
                EPCPPKP 9E  00 62
                ELR     ZN  06 25 30
          EPICENTRE UNUSUALLY FAR TO THE EAST

MAY 21    AFI   P       ZNE 07 03 29

MAY 21    SBA   EP      Z   07 27 35
                S       N       31 17
                EL      ZN      55

MAY 21    SBA   EP      Z   07 45 40

MAY 22    AFI   IP      ZNE 02 25 20  U
                S       ZNE     46
                T       ZNE     27 34

           H  M  S       EPICENTRE    DEPTH  MAG
MAY 22    06 54 00.i    16.6N 122.3E  34KM  5.7  LUZON
                                 H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
          AFI   P       ZNE 06 15 28        72
                S       ZNE     24 45
                SS      NE      29 25
                LR      ZE      37 12
          MSZ   P       Z   06 15 34        74
          KRP   P       ZNE 06 15 35        74
          MJZ   P       ZNE 06 15 39        75
          MNG   P       Z   06 15 43        75
          WEL   P       ZNE 06 15 43        75
                S       ZNE     25 18
                E       NE      26 48
                SS      ZNE 07 30 42
          GNZ   P       ZNE 06 15 45.0      76
          RAR   EP      ZNE 06 16 41        85
                EPP     ZNE     20 00
                ESKS    ZNE     27 00
                ESS     ZNE     32 22
                ESSS    ZNE     36 22
                ELQ     ZNE     39 40
                ELR     ZNE     43 30
          SBA   P       Z   06 17 33  U    98          3 12                    6.6
                SKS     NE      28 21

           H  M  S       EPICENTRE    DEPTH  MAG
MAY 22    06 11 13.0    16.6N 122.5E  33KM  5.3  LUZON
                                 H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
          KRP   P       Z   06 22 48        74
          MSZ   P       Z   06 22 48        74
          MJZ   P       ZN  06 22 53        75
          MNG   P       Z   06 22 57        75
          GNZ   EP      Z   06 23 58        76
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	H M S	EPICENTRE	DEPTH	MAG									
MAY 22	06 46 36,1	16,5N 122,6E	33KM	4,8	LUZON								
		H M S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MJZ EP	Z 06 58 11		74									
MAY 22	COB P	Z 08 42 59											
	GNZ EP	Z 08 43 00											
	MNG P	Z 08 43 04,0											
	MSZ P	Z 08 43 12,8											
	MJZ P	Z 08 43 14											

	H M S	EPICENTRE	DEPTH	MAG									
MAY 22	11 20 53,7	1,4N 120,3E	33KM	5,2	SULAWESI								
		H M S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MSZ EP	Z 11 31 15		62									
	MJZ EP	Z 11 31 22		64									
	KRP P	ZNE 11 31 28		64									
	MNG P	Z 11 31 32		65									
	SBA EP	Z 11 33 19		83									

	H M S	EPICENTRE	DEPTH	MAG									
MAY 22	12 48 27,7	26,5S 70,9W	34KM	5,2	N. CHILE								
		H M S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	Z 12 59 41,4		71									
	MNG EP	Z 13 01 21,5		89									
	COB EP	Z 13 01 28		91									
	KRP P	Z 13 01 29		91									

	H M S	EPICENTRE	DEPTH	MAG									
MAY 22	20 45 57,3	17,7S 175,2W	227KM	6,2	TONGA								
		H M S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI IP	ZNE 20 47 08		ÜNE	5								
	(S)	ZNE 52											
	RAO P	Z 20 48 37			12								
	IS	Z 50 43,0											
	(T)	Z 54 29											
	RAR IP	ZNE 20 49 14,5U			15	-0,56							
	CRZ P	ZNE 20 50 13			20								
	I	ZNE 16,8											
	ES	NE 53 52											
	ONE P	E 20 50 17,6			20								
	IS	E 53 58,0											
	WTZ EP	Z 20 50 25,8			21								
	I	Z 27,3											
	E	Z 21 24 18											
	KRP P	ZNE 20 50 31,5			22								
	IS	ZNE 54 20,0											
	E	Z 21 24 29											
	TUA P	Z 20 50 33			22								
	I	Z 35,1											
	CNZ P	Z 20 50 39,4			23								
	TNZ P	Z 20 50 47,6			23								
	I	Z 49,6											
	MNG P	Z 20 50 51,0			24								
	I	Z 54,4											
	E	Z 54 55											
	IS	Z 59,2											
	SCP	Z 57 47,2											
	ESCS	Z 21 01 46											
	WEL P	ZNE 20 51 00,0			25								
	I	ZNE 03,0											
	S	ZNE 55 09,4											
	SCP	Z 57 51											
	SCS	NE 21 01 38											
	COB P	Z 20 51 03			25								
	I	Z 07											
	KAI P	X 20 51 21			27								

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              (*PP)   X        32 44
             I(*SP)   X           55
               S      X        55 41
        GPZ   EP      N    20 51 28          28
               SCS    N    21 01 50
        MJZ    P      ZNE  20 51 33.7        29 -0.10                    6.5
               I      ZNE       37.5
               I      ZNE       41.1
               PCP    Z         54 39.8
               SCP    Z         58 03.0
               SCS    ZNE  21 01 55
               E      Z         23 46
        MSZ    P      Z    20 51 47          30
               I      Z         49.4
        MNW    P      Z    20 51 58.5        31
               I      Z         52 01
        SBA    IP     ZNE  20 55 47.9US      61 -0.24                    6.5
               S      Z    21 03 45
               S      NE        52

MAY 22  AFI    P      Z    22 36 39
               S      ZNE       37 32

MAY 23  AFI    P      ZNE  02 25 03
               S      ZNE       20

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 23   06 36 56.8     4.5S 144.0E 110KM  5.1  BISMARCK SEA
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP    P      ZNE  06 44 57.0       44
         COB    P      Z    06 45 01          45
         MJZ    P      ZN   06 45 09          46
         MNG    P      Z    06 45 09.2        46
         GNZ    P      ZNE  06 45 10.9        46

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 23   11 51 50.7     33.5N 140.7E  64KM  4.4  S. OF HONSHU
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP    P      Z    12 03 44.6        78

MAY 23   SBA    EP     Z    13 33 46

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 23   18 03 21.7     33.5N 142.3E  19KM  5.1  E. OF HONSHU
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNG    P      Z    18 15 31          80

MAY 23   SBA    EP     Z    23 25 32

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 24   00 55 08.5     50.0S 115.4E  33KM  5.2  S. OF AUSTRALIA
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA    P      Z    01 01 48.5        34
         MJZ    P      ZNE  01 02 20          37
         GNZ    EP     Z    01 03 23          43

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 24   01 00 36.9     2.7N 128.2E 141KM  5.1  HALMAHERA
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ    P      Z    01 10 24          59
         MJZ    P      ZNE  01 10 30          60
         SBA    P      Z    01 12 49.7        83

MAY 24   WTZ    P      Z    06 42 47
         GNZ    P      ZNE  06 42 51.6
                S      ZNE      44 19
         CNZ    P      Z    06 42 52             -1.30
         KRP    EP     Z    06 42 54
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        MNG   P       Z   06 43 16

MAY 24  AFI   P       ZNE 11 02 37

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 24  11 26 01.1    22.3S 171.2E   38KM  5.6  LOYALTY IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CRZ   P       ZNE 11 28 54.5      12
        GNZ   P       ZNE 11 30 01.8      17
        AFI   P       ZNE 11 30 08        18 +0.90                        5.2
              S       ZNE    33 28
              (SSS)   ZNE    34 43
        MNG   P       Z   11 30 17.7      19
        WEL   P       ZNE 11 30 23        19
              PP      Z      31 01
              S       E      34 06
              LQ      N
              LR      ZNE    35 15
        MJZ   P       ZNE 11 30 49.6      22
        MSZ   P       Z   11 30 59        22
        RAR   ES      ZNE 11 36 32        27
              EL      ZNE    38 20
        SBA   EP      Z   11 35 36        56
              ES      NE     43 26
              E       Z      51 47
              ELQ     N      52
              ELR     Z      54

MAY 25  RAO   IP      Z   02 17 15.2D
              (S)     Z          37
        GNZ   ES      E   02 21 25
        MNG   EP      Z   02 20 12
              E       Z      22 20
              ES      Z          26

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 25  13 22 37.5    59.1S  17.9W   33KM  4.8  S. ATLANTIC OCEAN
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP      Z   13 30 39.5      43
              EL      ZNE    45

MAY 25  RAO   EIP     Z   17 16 21
              (S)     Z          37
        GNZ   S       NE  17 19 49

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 26  00 21 33.1     6.0S 150.4E   80KM       NEW BRITAIN
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   00 28 56.8      39
        MNG   P       Z   00 29 12.6      41

MAY 26  AFI   P       ZNE 02 16 42
              S       ZNE    18 13

MAY 26  RAO   P       Z   06 53 15
              S       Z          44

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 26  08 38 18.8    13.3N 120.4E   38KM  5.2  CENTRAL PHILIPPINES
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   08 49 39.8      72
        KRP   P       Z   08 49 44.7      73
        MJZ   P       ZNE 08 49 46        73
              ePP     Z          56.8
        MNG   P       Z   08 49 56.8      74
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          H  M  S        EPICENTRE    DEPTH  MAG
MAY 26  09 44 27.0     6.6S 155.1E    56KM   4.4  SOLOMON IS
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        MNG    P       Z   09 51 45       38
        MSZ    EP      Z   09 51 56       40

          H  M  S        EPICENTRE    DEPTH  MAG
MAY 26  10 48 52.2     47.4S  12.5W   33KM   4.9  S. ATLANTIC RIDGE
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        SBA    IP      Z   10 58 23.3J    55

          H  M  S        EPICENTRE    DEPTH  MAG
MAY 26  11 45 16.0     11.2S 117.2E   33KM   5.5  FLORES REGION
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        MNG    P       Z   11 55 15.6     59

          H  M  S        EPICENTRE    DEPTH  MAG
MAY 26  17 41 54.3     47.4S  12.3W   33KM   4.8  S. ATLANTIC RIDGE
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        SBA    EP      ZNE 17 51 29       59
                S      NE  59 22
               ELQ     E   18 05 00
               ELR     ZNE    07
        AFI    E       Z   18 11 28      116
               ESSP    Z       18 16
               ELR     ZN      36

          H  M  S        EPICENTRE    DEPTH  MAG
MAY 27  03 27 10.6     6.2S 147.3E   107KM        NEW GUINEA
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        MNG    P       Z   03 35 00       43
                *PP     Z       24.8

MAY 27  KRP    EP      Z   03 37 30
        GNZ    P       ZNE 03 37 45
        MNG    P       Z   03 37 58.6
        MJZ    P       ZNE 03 38 32.9

MAY 27  SBA    EP      ZN  03 58 19

          H  M  S        EPICENTRE    DEPTH  MAG
MAY 27  04 06 50.4     55.0N 156.3E  409KM   5.7  KAMCHATKA
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        AFI    P       ZNE 04 17 42       74 -0.7I                      6.1
              (PCP)    Z       19 11
        NDF    P       Z   04 17 59.0     75
               E       Z       19 21.5
        KRP    E       Z   04 19 28       94
                *PP    Z       21 05
        MNG    P       Z   04 19 35       97
              (*PP)    Z       21 26
        MJZ    SKS     ZNE 04 29 45.0     99
        SBA    PKP     Z   04 25 17.7    133
               I       Z       26 59.1
              (PP)     Z       28 06.0

MAY 27  KRP    P       Z   06 26 19
               E       Z       24
        GNZ    P       Z   06 26 36
        MNG    P       Z   06 26 53.0
        MJZ    P       Z   06 27 30
        SBA    EP      Z   06 32 16

          H  M  S        EPICENTRE    DEPTH  MAG
MAY 28  00 54 52.0     22.0S 179.7W  610KM   5.0  S. OF FIJI
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        NDF    IP      Z   00 56 25.0J     5
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          ES      Z       57 42
    RAO    P      Z    00 56 40          7
           S      Z       58 14
    WTZ    P      Z    00 58 08         16
    KRP    P      ZNE  00 58 12.2       16
    GNZ    EP     Z    00 58 13         17
           S      ZNE  01 00 57
    MNG    P      Z    00 58 33         19
           S      Z    01 01 37
           SCP    Z       05 13.7
    WEL    P      Z    00 58 42         20
    SBA    IP     Z    01 03 38.00      36

     H  M  S       EPICENTRE    DEPTH  MAG
MAY 28  01 40 42.3    6.0S 151.1E   69KM  5.5  NEW BRITAIN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
    KRP    P      Z    01 48 02         39
    WTZ    P      Z    01 48 09.4       40
    COB    P      Z    01 48 12         40
    GNZ    P      ZNE  01 48 17         41
    MNG    P      Z    01 48 18.3       41
    MJZ    P      ZN   01 48 24         41

     H  M  S       EPICENTRE    DEPTH  MAG
MAY 28  01 55 21.9    11.0S 117.1E   33KM  6.3  FLORES REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
    MJZ    P      ZNE  02 05 01         56
           *PP    Z       13.6
          (*SP)   Z       21.2
    WEL    P      ZNE  02 05 16.8       59
           *PP    ZNE     30
           S      NE      13 18
           SCS    NE      15 14
          E       N       16 50
          E       NE      17 18
           SS     E       36
           LQ     ZE      19 44
           LR     N       24 58
    KRP    P      ZNE  02 05 17.6       59
           *PP    ZNE     30.4
    MNG    P      Z    02 05 19         59
          (*PP    Z       32.2D
    NDF    P      Z    02 05 20.2D      59
           *PP    Z       33.7
    GNZ    P      ZNE  02 05 30.3       61
           PP     Z    07 46
    AFI    P      ZNE  02 06 30         69
           PCP    Z       54
          (PCS)   Z    09 52
           S      ZNE     15 40
           SS     NE      20 00
           SSS    NE      23 28
           LQ     N       25
           LR     ZN      28
    SBA    IP     ZNE  02 06 39.8       71  0.65                          7.8
           S      NE      15 58.5

MAY 28  AFI    EP     Z    05 54 08
           S      ZNE     53

     H  M  S       EPICENTRE    DEPTH  MAG
MAY 28  08 27 01.9    3.5S 134.4E   33KM  4.4  WEST IRIAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
    MNG    P      Z    08 34 11.3       52
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		H	M	S	EPICENTRE		DEPTH	MAG								
MAY 28		08	38	51.5	32.9S	92.2W	33KM	5.0	S.E. PACIFIC OCEAN							
							H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP			Z		08	49	00.5		60								
MAY 28	AFI	IP			ZNE		08	54	28	J									
		S			ZNE				47										
		H	M	S	EPICENTRE		DEPTH	MAG								
MAY 28		15	20	49.0	13.4N	120.6E	46KM		CENTRAL PHILIPPINES							
							H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P			Z		15	32	09		72								
	MJZ	P			Z		15	32	15.5		73								
MAY 28	AFI	P			ZNE		17	32	25										
		S			ZNE			33	15										
MAY 28	WTZ	P			Z		17	36	04										
	GNZ	P			Z		17	36	08.2										
	KRP	P			ZNE		17	36	10										
	MNG	P			Z		17	36	30.5										
	COB	EP			Z		17	36	43										
	MJZ	EP			Z		17	37	19										
	MSZ	EP			Z		17	37	39										
		H	M	S	EPICENTRE		DEPTH	MAG								
MAY 28		18	12	36.2	18.0S	179.4W	621KM	5.1	FIJI REGION							
							H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	IP			Z		18	13	59.5D		3								
		S			Z			15	08										
	AFI	P			ZNE		18	14	38		9								
		S			ZNE			16	15										
	WTZ	EP			Z		18	16	30		20								
	KRP	P			ZNE		18	16	34		20								
	MNG	P			Z		18	16	54		23								
		S			Z			20	21.8										
		SCP			Z			23	04.5										
	COB	P			Z		18	17	05		24								
	MJZ	P			ZNE		18	17	33		27								
		ES			NE			21	34										
	MSZ	P			Z		18	17	46.8		29	-0.9I							5.6
	MNW	P			Z		18	17	56		30								
MAY 28	RAO	IP			Z		19	36	33.5D										
		S			Z				45										
	GNZ	S			ZNE		19	40	40										
	NDF	EP			Z		19	39	14										
	MNG	P			Z		19	39	16										
		ES			Z			41	36										
	WEL	S			ZNE		19	41	56.5										
	COB	EP			Z		19	39	44										
	MJZ	P			ZNE		19	40	23.6										
	MSZ	P			Z		19	40	41.7										
MAY 29	RAO	P			Z		00	48	06										
		S			Z			49	00										
	NDF	P			Z		00	50	48.8										
MAY 29	GNZ	S			ZNE		02	41	40										
	MNG	P			Z		02	40	26										
		ES			Z			42	32										
MAY 29	NDF	P			Z		18	17	28.0										

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          H  M  S       EPICENTRE    DEPTH  MAG
MAY 29   19 04 24.1     25.3S 176.8W   33KM  4.3  S. OF FIJI
                          H  M  S   DIR DIS AZ/T  AZ TZ  AN TN  AE TE  MAG
         RAO    P       Z   19 05 27          4
                S       Z       06 13
         NDF    P       Z   19 06 49.2        9
         AFI    P       ZNE 19 07 18         12
                S       ZNE     09 24
         WTZ   EP       Z   19 07 46         14
               ES       Z       09 55
         GNZ    S       ZNE 19 10 00.8       14
         KRP   E(P)     Z   19 07 54         14
         MNG   EP       Z   19 08 08         17
                S       Z       10 57.6
         WEL    S       ZNE 19 11 16.5       17
         SBA   IP       Z   19 13 41.2       53

MAY 30   AFI   EP       ZE  00 59 18

          H  M  S       EPICENTRE    DEPTH  MAG
MAY 30   03 56 24.5     15.8S 173.1W   33KM  4.4  TONGA
                          H  M  S   DIR DIS AZ/T  AZ TZ  AN TN  AE TE  MAG
         AFI   IP       ZNE 03 56 59  U      2
                S       ZNE     57 24
         NDF   EP       Z   03 58 55.5        9
         KRP    P       Z   04 01 41         24

MAY 30   AFI    P       ZNE 15 01 13
                S       ZNE     33

MAY 30   RAO    P       Z   20 15 27
                S       Z       49

MAY 30   AFI   IP       ZNE 23 46 55  U
                S       ZNE     47 15

MAY 31   SBA   EP       ZN  00 30 26

MAY 31   AFI   IP       ZNE 04 04 38.1JUNE
                S       ZNE     05 00

MAY 31   AFI    P       ZNE 06 25 27
                S       ZNE     26 42
                T       ZNE     32 32

MAY 31   AFI    P       Z   07 44 11
                S       ZNE     45 52

MAY 31   AFI    P       Z   20 28 05
                S       ZNE     38

JUN 01   AFI   IP       ZNE 01 16 45  U
                S       ZNE     17 02

JUN 01   KRP    P       Z   04 09 27.4
         COB   EP       Z   04 10 00

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 01   06 23 44.2     21.1S 174.4W   33KM  5.0  TONGA
                          H  M  S   DIR DIS AZ/T  AZ TZ  AN TN  AE TE  MAG
         NDF   IP       Z   06 25 53.60       8
         GNZ    P       Z   06 28 00         19
               ES       E       31 20
         KRP    P       Z   06 28 08         19
         COB    P       Z   06 28 50         23
         MJZ   EP       Z   06 29 19.5       26
         MSZ    P       Z   06 29 34         28
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JUN 01  SBA  EP      ZNE 06 31 46

JUN 01  NDF   P      Z   07 43 37

JUN 01  AFI   P      Z   20 04 38
              S      ZNE     05 27
              T      ZNE     09

JUN 01  RAO  EP      Z   23 57 36.2
              S      Z       53.0

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 02  08 57 28.5   55.6S  29.6W  33KM  5.1  SOUTH SANDWICH IS
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 09 05 54        46

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 02  14 16 21.6   33.5N 140.7E  66KM  4.8  S. OF HONSHU
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP      Z   14 28 16        78

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 02  15 02 50.1   33.5N 140.8E  54KM  4.8  S. OF HONSHU
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP      Z   15 14 45        79

JUN 02  WTZ   P      Z   17 25 13.3
              S      Z       26 22
        GNZ   P      ZNE 17 25 18.8
              S      ZNE     26 26.0
        KRP  EP      Z   17 25 22
        MNG   P      Z   17 25 45.6
              S      Z       27 20.3
        WEL   P      Z   17 25 56.4
              S      Z       27 38.8

JUN 02  RAO  EP      Z   19 02 58.5
              S      Z       03 27.8
        GNZ   P      ZNE 19 04 03.7
              S      ZNE     05 23
        MNG  EP      Z   19 04 35
             ES      Z       06 23.5
        WEL   S      Z   19 06 43.0

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 02  20 24 03.8    3.2N 128.0E  86KM  5.1  HALMAHERA
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP      Z   20 34 01        59
        MJZ  EP      Z   20 34 07        60

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 02  22 50 47.4    3.6N  96.7E  33KM  5.5  N. SUMATRA
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P      Z   23 02 52.0U       79
        MNW  EP      Z   23 02 54          79
        ROX   P      Z   23 02 57.7        80
        MJZ   P      ZNE 23 03 00.0D       81
        COB   P      Z   23 03 04.4        82
        SBA  EP      ZNE 23 03 42          89

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 03  05 37 12.2   42.1S  88.0E  33KM  4.9  S. INDIAN OCEAN
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 05 45 41        47

JUN 03  AFI   P      ZNE 17 39 56
              S      ZNE     40 26
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          H  M  S       EPICENTRE    DEPTH  MAG
JUN 03  18 31 19.9    12.6S 166.1E    44KM  4.4  SANTA CRUZ IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z    18 34 21        12
        AFI   P        ZE   18 36 04        22
              S        ZNE     40 12
              SBS      ZE      41 36
              LR       ZNE     42 36
        COB   EP       Z    18 37 19        29
        MJZ   EP       Z    18 37 40        32
        MSZ   EP       Z    18 37 45        32 -1.14                        5.7
        SBA   EP       ZNE  18 42 00        65

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 03  18 46 31.0    12.5S 166.1E    54KM  4.0  SANTA CRUZ IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z    18 49 31        12
        MJZ   EP       Z    18 52 51        32
        SBA   EP       ZNE  18 57 10.5      65

JUN 03  COB   EP       Z    19 00 08
        MJZ   EP       ZNE  19 00 10
        MSZ   EP       Z    19 00 15

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 04  00 37 49.6    13.1S 165.8E    33KM  5.0  NEW HEBRIDES
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP       Z    00 43 45        29
        MJZ   EP       ZNE  00 44 09        31
        SBA   EP       ZNE  00 48 27        65

JUN 04  AFI   IP       ZNE  08 05 26  D
              S        ZNE     06 00

JUN 04  RAO   EP       Z    12 26 27.8
              ES       Z       27 12

JUN 04  AFI   P        ZNE  14 02 12
              S        ZNE     36
        KRP   EP       Z    14 06 55
        MNG   EP       Z    14 07 06
        COB   EP       Z    14 07 31.4
        MJZ   EP       Z    14 07 59

JUN 04  NDF   EIP      Z    18 50 36  U
              E        Z       51 02.1

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 04  19 02 59.2     4.8S 153.8E   108KM  4.7  NEW IRELAND
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP       Z    19 10 27        41
        MSZ   P        Z    19 10 38.8      42

JUN 04  RAO   P        Z    21 09 02
              S        Z       34

JUN 04  RAO   P        Z    21 35 16.0
              S        Z       36 01.0
        AFI   EP       Z    21 38 50
              S        NE      42 25

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 04  22 12 37.8     15.3S 173.3W    33KM  5.5  TONGA
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP       ZNE  22 13 08  UNE   2
              S        ZNE     30
        NDF   P        Z    22 15 05.8      9
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                E          Z              38
        RAR     IP         Z    22 15 52.5U      14 -0.84
                S          ZN       18 18
                T          ZN       28 28
        GBZ     P          Z    22 17 44.2       23
        ECZ     P          Z    22 17 50.0       23
        WTZ     P          Z    22 17 53.3       24
        KRP     P          ZNE  22 17 57.9       25
        COB     P          Z    22 18 32.1       28
        MSZ     P          Z    22 19 13.5       33
        SBA     IP         ZNE  22 23 07.4U      63 -0.75                        6.4

JUN 05  AFI     IP         ZNE  00 06 26.8U
                S          ZNE       45

JUN 05  AFI     EP         ZNE  03 41 48
                S          ZNE       43 27

JUN 05  AFI     EP         Z    09 11 34
                (S)        NE        13 00

JUN 05  AFI     P          ZNE  22 40 39
                S          ZNE       42 39
        SBA     EP         ZNE  22 47 06

                H  M  S          EPICENTRE      DEPTH   MAG
JUN 05          23 59 31.0       20.8S 178.3W   551KM   3.7  FIJI REGION
                                      H  M  S   DIR DIS  LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF     IP         Z    24 01 01.0D       5
                E          Z              17.5
        AFI     P          ZNE  24 01 36          9
                S          ZNE       03 15
        CRZ     EP         Z    24 02 49         16
        WTZ     P          Z    24 03 03.9       18
        KRP     P          Z    24 03 08.6       18 -0.58                        5.9

                H  M  S          EPICENTRE      DEPTH   MAG
JUN 06          05 25 50.2       32.9N  39.9W   33KM    5.5  N. ATLANTIC RIDGE
                                      H  M  S   DIR DIS  LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA     EPKP       ZNE  05 45 03          133
                EPP        ZNE       47 40
        KRP     EPKP       Z    05 45 49          151

JUN 06  AFI     (P)        Z    15 26 21

JUN 06  SBA     EP         ZNE  18 13 08
                EL         ZNE       32 30

                H  M  S          EPICENTRE      DEPTH   MAG
JUN 06          19 55 37.7       16.3S 173.3W    33KM    4.8  TONGA
                                      H  M  S   DIR DIS  LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P          ZNE  19 56 35          3
                S          ZNE       57 04
        WTZ     EP         Z    20 01 05         23
        KRP     EP         Z    20 01 08         24

                H  M  S          EPICENTRE      DEPTH   MAG
JUN 07          05 24 19.6       12.5N 123.7E    13KM    5.1  LUZON
                                      H  M  S   DIR DIS  LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP     P          Z    05 35 31.6       70

JUN 07  AFI     P          ZNE  07 28 07
                S          ZNE       54

JUN 07  AFI     IP         ZNE  08 27 36  J
                S          ZNE       29 05
        WTZ     P          Z    08 29 27.8
        KRP     P          ZNE  08 29 38.1          0.45
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        MJP  EP       Z    08 30 42,5
        MSZ  EP       Z    08 30 45,9
        CIZ   P       Z    08 31 46,6
        SBA  EP       ZNE  08 35 00

JUN 07  SBA  EP       ZNE  09 15 27

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 07  11 39 26,0    31,9S 178,2W  33KM  5,3  KERMADEC REGION
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P       Z    11 40 05        3
              S       Z       41
        CRZ  ES       ZNE  11 41 50,8      8
        ECZ   P       Z    11 41 06,6      6
        KRP  EP       ZNE  11 41 17,5      8
              S       ZNE     42 48,4
             E        N       43 47
        WEL   S       ZNE  11 43 49,3     11
        MJZ  EP       ZNE  11 42 53       15
              S       ZNE     45 24,1
        NDF  EP       Z    11 43 03       15
        AFI   P       ZNE  11 43 42       19 +0,71                        5,5
              S       NE      46 58
              T       ZNE  12 02
        RAR   P       Z    11 43 52       20
        SBA  EP       ZNE  11 47 52       47

JUN 07  AFI   P       ZNE  11 49 01
              S       ZNE     50 38

JUN 07  AFI  IP       ZNE  11 54 30,6U
              S       ZNE     48

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 07  12 01 17,8    2,5N 128,2E 152KM  5,7  HALMAHERA
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z    12 11 02,0D     59
        KRP   P       Z    12 11 06,2      59
        MJZ   P       ZNE  12 11 08,5DNW   60
        SBA  EP       ZNE  12 13 27        63

JUN 07  AFI   P       ZNE  12 48 25
              S       ZNE     58

JUN 07  SBA  EP       ZNE  17 02 33

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 07  17 26 56,2    15,9S 168,0E 176KM  5,1  NEW HEBRIDES
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z    17 29 10,1      9
        CRZ  EP       ZNE  17 31 11        19
        AFI  EP       ZNE  17 31 14        20
        KRP   P       ZNE  17 31 46,9DN    23
        CNZ   P       Z    17 31 58,6      24
        TRZ   P       Z    17 32 03,2      25
        MJZ   P       ZNE  17 32 32,8U     28
        MSZ   P       Z    17 32 38,9D     29
        SBA  EP       ZNE  17 37 00        62

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 08  07 55 17,4    7,2S 126,6E 307KM  5,5  BANDA SEA
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP       Z    08 03 49        51
             E        Z       05 36
        SBA  IP       ZNE  08 06 18,5J     74 +1,06                        5,7

JUN 08  MJZ   P       ZNE  08 04 04,2U
        KRP   P       ZNE  08 04 10,6D
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        WEL   P        ZNE 08 04 14,8
        MNQ   P        Z   08 04 15,3U
        WTZ   P        Z   08 04 17,4

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 08  09 14 08,3     21,1N 120,2E  33KM  5,4  TAIWAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P        ZNE 09 25 52       79
              S        N      35 32
            (SCS)      ZE     36 00
              LR       ZNE    49

JUN 08  RAO   P        Z   09 19 29,0
              S        Z          45

JUN 08  RAO   P        Z   09 46 15,5
              S        Z          37

JUN 08  RAO   P        Z   14 56 20,4
              S        Z          55
        KRP   EP       Z   14 57 42

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 08  16 15 56,1     19,4S 177,1W 290KM  5,3  FIJI REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP       Z   16 17 29,3U      5
              E        Z          40,8
        RAO   P        Z   16 18 13,0      10
              S        Z      20 01,5
        RAR   S        ZNE 16 21 10        16
              T        ZNE    22 40
        AFI   IP       ZNE 16 17 43,5D      7
              S        ZNE    19 02
        CRZ   P        ZNE 16 19 46,4      18
              E        N      20 42,3
        WTZ   IP       Z   16 20 00,0      19
        KRP   P        ZNE 16 20 05,7      20 -0,61                    5,7
              *PP      ZNE    55,3
              ES       ZNE    23 31,9
              PCP      Z      24 17,4
        MNQ   EP       Z   16 20 29        22
              E        Z      22 54,5
              S        Z      25 10,2
        WEL   S        ZNE 16 24 30        23
        CIZ   E        ZN  16 21 29        24
        MJZ   EP       ZNE 16 21 13        27
              E        ZNE    22 14,2
        MSZ   EP       Z   16 21 25        28
              E        Z      22 27,4
        SBA   IP       ZNE 16 25 28        59
              EPCP     ZNE    26 39

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 08  17 57 38,6     22,6S  66,2W 259KM  5,4  ANDES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   IP       ZNE 18 08 56  D   75 -1,06                    5,7
        KRP   P        Z   18 10 41      96

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 08  18 53 41,7     30,5S  71,8W  39KM  6,2  CHILE
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP       ZNE 19 04 30       67
              ES       ZNE    13 24
              ESS      ZNE    17 30
              ELQ      ZNE    21 00
              ELR      ZNE    24 00
        RAR   P        Z   19 05 45       78
              S        ZNE    15 30
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                SS      ZNE     19 40
                SSS     ZNE     23 48
               (LQ)     ZN      26
                LR      ZNE     29
        CBZ     P       Z   19  06 01.5      82
                PP      Z       07 23.5
        WEL     EP      ZNE 19  06 21         86
        MNG     P       Z   19  06 21.6      86  -1.05                       6.2
                PCP     Z       33.4
                PP      Z       08 45
        WTZ     P       Z   19  06 24.8      86
        MJZ     P       ZNE 19  06 25.3      87  -0.47                       6.8
                E       ZNE     47.2
                PP      ZNE     08 48.9
        KRP     P       ZNE 19  06 26.8      87  -0.60                       6.7
                E       ZNE     47
        MSZ     P       Z   19  06 29.7      88  -0.70                       6.6
        AFI     P       ZNE 19  06 53        91
                PP      ZE      10 20
                SKS     ZNE     17 20
                S       ZNE     18 00
                IPS     ZNE     19 02
                E       NE      23 00
                SS      ZE      56
                SKKS    ZNE     31 00
                LR      ZNE     35

JUN 08  MJZ     EP      Z   19  32 18
        KRP     EP      ZNE 19  32 21

         H  M   S       EPICENTRE     DEPTH   MAG
JUN 08  19 22 09.5      30.5S  71.8W   57KM   5.5  CHILE
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA     EP      ZNE 19  32 53        67
        MJZ     EP      Z   19  34 49        87
        KRP     EP      Z   19  34 52        87

JUN 08  AFI     IP      ZNE 22  38 49.50
                S       ZNE     39 10

         H  M   S       EPICENTRE     DEPTH   MAG
JUN 09  00 19 56.8      21.1S 174.0W   33KM   5.5  TONGA
                            H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       ZNE 00  21 39         7
                S       ZNE     22 58
                L       ZNE     24
                T       ZNE     29
        RAO     P       Z   00  22 00.4       9
                S       Z       23 36.8
        NDF     P       Z   00  22 10.00      9
        RAR     IP      Z   00  22 55.00     13
                S       ZNE     25 15
                L       ZNE     26
                T       ZNE     36 43
        ORZ     EP      ZNE 00  24 03        18
        KRP     P       ZNE 00  24 19.4      19  -1.00                       5.2
                eSP     Z       35.2
                E       Z       42.5
        MNG     E(P)    Z   00  24 40        21
                ES      Z       28 29
        WEL     EP      ZNE 00  24 51        22
                ES      ZNE     28 49
        MJZ     P       ZNE 00  25 33.7      25  -1.05                       5.4
                ES      ZNE     30 12
        MSZ     P       Z   00  25 45.4      28
                PP      Z       26 30.0
        SBA     EP      ZNE 00  29 45        58
                ES      ZNE     38 00
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              ELD     ZNE     47 00
              ELR     ZNE     49 00

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 09    06 44 39.7    56.8S  25.6W  33KM  5.1  SOUTH SANDWICH IS
                              H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
          SRA   EP       ZNE 06 32 51       45
          MSZ   EP       Z   06 36 40       79
          MNG   EP       Z   06 36 48       81
          KRP   EP       Z   06 37 02       84

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 09    09 45 08.8    8.8S  108.3W  33KM  4.9  E. PACIFIC OCEAN
                              H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
          AFI   EP       Z   09 55 29       62
                ES       E   10 04 12
                ESSS     N       11 19
                ELR      ZE      14
          KRP   EP       Z   09 56 44       74
          MNG   E(P)     Z   09 56 57       74
          SBA   EP       ZNE 09 57 15       80

JUN 09    RAO   IP       Z   15 56 04.9
                S        Z       17.4

JUN 09    RAO   P        Z   18 30 29.6
                S        Z       31 41.4

JUN 10    RAO   P        Z   00 10 05.2

JUN 10    AFI   IP       ZNE 04 01 39  J
                S        ZNE     58

JUN 10    NDF   P        Z   06 04 41.8
                E        Z       05 02
                E(S)     Z       18

JUN 10    RAO   P        Z   09 18 33.5
                S        Z       46.0

JUN 10    AFI   EP       ZNE 09 59 55
                S        ZNE 10 01 15
                T        ZNE     07 23

JUN 10    WTZ   EP       Z   11 11 18
                ES       Z       12 42
          KRP   EP       Z   11 11 37
          MNG   S        Z   11 13 43.8
          WEL   S        ZNE 11 14 03
          MJZ   EP       Z   11 13 12
                S        ZNE     15 17.3

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 10    12 22 06.6    21.2S 174.3W  62KM  5.2  TONGA
                              H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
          AFI   P        ZNE 12 23 49        9
                S        ZNE     25 05
                T        ZNE     31 10
          RAO   P        Z   12 24 14.8       9
                S        Z       25 40.0
          NDF   EP       Z   12 24 15.3       9
          RAR   EP       Z   12 25 03        14
                S        ZNE     27 19
                T        ZNE     39 03
          WTZ   P        Z   12 26 16.3       18
                ES       Z       29 25
          KRP   P        Z   12 26 23.6       19
          MNG   P        Z   12 26 43.9       21
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        MJZ   P       ZNE 12 27 41.4      26
        MNW   EP      Z   12 28 00        29
        SBA   EP      ZNE 12 31 51.8      57

JUN 11  AFI   EP      Z   03 24 05
              (S)     ZNE    25 22

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 11  04 31 19.3    20.0S 175.3W   33KM  5.1  TONGA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       ZNE 04 33 01          7
              S       ZNE    34 18
        NDF   P       Z   04 33 20.9        7
        GNZ   EP      ZNE 04 35 52          19
        KRP   EP      Z   04 35 48          20
        MNG   P       Z   04 36 10.2        22
              S       Z       40 00.3
        MJZ   EP      Z   04 37 00          27
        MSZ   EP      Z   04 37 15.0        28
        SBA   EP      ZNE 04 41 14.5        59

JUN 11  SBA   EP      ZNE 05 36 56.5

JUN 11  RAO   P       Z   11 06 57

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 11  14 29 56.8    20.9S 179.4W   75KM  5.6  TONGA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   14 31 55.00       7
        AFI   P       ZNE 14 31 43          8
              S       ZNE    33 04
        RAO   P       Z   14 31 58.5        9
              E       Z      32 32.7
        RAR   P       Z   14 33 13          15
              S       ZNE    35 38
              T       ZNE    47 41
        GNZ   P       ZNE 14 34 05.9        19
        KRP   P       ZNE 14 34 10.4        19
        MNG   P       Z   14 34 33.4        21 -1.16                        5.1
              S       Z      38 20.0
        MJZ   P       ZNE 14 35 26.3        26 -1.36                        5.1
        MSZ   P       Z   14 35 38.6        27 -0.98                        5.5
        SBA   EP      ZNE 14 39 43          58
        FELT NIUE IS 4M IV

JUN 11  RAO   P       Z   16 08 33.6
              S       Z      49.5

JUN 11  RAO   P       Z   16 24 15.4
              S       Z      32.0

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 11  16 41 00.9     3.9N 124.3E  325KM  5.8  CELEBES SEA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   16 50 15.80       57
              EPKPPKP Z   17 20 11.5
        CRZ   EP      ZNE 16 50 34.4        59
                ePP   ZNE    51 51.5
                eSP   ZNE    52 33.4
              S       ZNE    38 16.7
              E       Z   17 20 02
                PKPPKP ZNE      14.9
              E       Z      21 38.4
        MSZ   IP      Z   16 50 51.1        62
              S       Z      58 54.2
              SCS     Z   17 00 27.4
              PKPPKP  Z      19 56.3
        MJZ   IP      ZNE 16 50 57.7        63
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		•PP	ZNE		52	17.1							
		S	ZNE		59	04.9							
		E	ZNE	17	19	44.2							
		PKPPKP	ZNE			58.4							
	KRP	EP	ZNE	16	50	57		63					
		PCP	ZNE		51	39.7							
		•PP	ZNE		52	09.8							
		S	ZNE		59	07.6							
		SCS	ZNE	17	00	29.1							
		E	ZNE		19	45							
		PKPPKP	ZNE		20	06.7							
		E	Z		23	33.6							
		PKP(3)	Z		41	53.8							
	MNG	P	Z	16	51	04.0		64					
		•PP	Z		52	21.7							
		S	Z		59	15.4							
		SCS	Z	17	00	24.1							
		PKPPKP	Z		19	56.5							
		PKP(3)	Z		40	26							
		E	Z		41	54							
	RAO	P	Z	16	51	07.8		64					
		PCP	Z			26.0							
		PP	Z		53	47.8							
		S	Z		59	20.0							
		SCS	Z	17	00	40.2							
		PKPPKP	Z		20	04.4							
	AFI	IP	ZNE	16	51	16		66					
		PCP	Z			21							
		•PP	ZNE		52	22							
		•PPP	Z		55	00							
		S	ZNE		59	24							
		SS	N	17	05	00							
		•SSS	N		06	00							
		SSS	Z		07	00							
		(LQ)	ZNE		09								
		LR	ZNE		13								
	CBZ	P	Z	16	51	32		68					
		PKPPKP	Z	17	19	52.5							
	CIZ	EP	ZNE	16	51	49.5		71					
		•PP	ZNE		53	08							
		ES	ZNE	17	00	41							
	RAR	IP	Z	16	52	34.0		78	0.48				7.4
		I	ZE		53	40							
		S	ZNE	17	02	00							
		SS	ZNE		07	00							
	SBA	EP	ZNE	16	53	01		85					
		ES	ZNE	17	03	00							
		ESS	ZNE		08	25							
		ESSS	ZNE		12	00							
		EL	ZNE		15	25							
JUN 11	RAR	P	Z	17	19	37			-0.24				
	AFI	P	Z	17	19	41							
		I	Z			58							
		E	Z		20	14							
JUN 11	RAR	(P)	Z	17	22	31							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUN 11	18	36	49.3	5.5S	146.9E	154KM	5.2	NEW GUINEA						
				H	M	S	DIR	DIS	LG	AZ	T	AN	TN	AE	TE	MAG
	KRP		P	ZNE	18	44	23.3		41	-0.78						5.9
	AFI		P	Z	18	44	23		42							
	MTZ		P	Z	18	44	29.6		42							
	MSZ		P	Z	18	44	36.8		43	-0.75						5.9
	MNG		IP	Z	18	44	37.10		43	-0.54						6.1
	MJZ		P	ZNE	18	44	39.0		44	-0.92						5.8
	MNW		P	Z	18	44	43.1		44							

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        SBA   EP       ZNE 18 48 04        73

JUN 11  AFI   IP       ZNE 22 16 48.2D
              S        ZNE    17 06

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 12  00 45 45.8     12.4S 167.0E 245KM  5.5  SANTA CRUZ IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z    00 48 25.0      11
              I        Z       29.9
        AFI   EP       ZNE 00 50 08        21 -0.66                          5.8
                *PP    ZE          46
                PP     ZE       51 08
        KRP   P        ZNE 00 51 03.1      27
              PCP      Z        54 20.9
        GNZ   P        ZNE 00 51 14.6      28
              PCP      Z        54 24.2
            E(S)       ZNE      55 39
        MNG   P        Z    00 51 24.4D    29
              PCP      Z        54 26.6
              ES       Z        55 57.3
        MJZ   PCP      ZNE 00 54 33.2      32
        MSZ   P        Z    00 51 52.6     32
              PCP      Z        54 36.7
        SBA   IP       ZNE 00 56 05  U     65 -0.6D                          6.2

JUN 12  RAO   P        Z    05 12 53.6
              S        Z        13 10.5

JUN 12  AFI   IP       ZNE 06 06 59.4D
              S        ZNE      07 41

JUN 12  KRP   P        Z    06 54 48.6
        MNG   EP       Z    06 55 16

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 12  09 30 32.6     21.8S 175.6E  33KM  4.9  S. OF FIJI
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z    09 31 32.0U     4
              ES       Z        32 28.5
              EL       Z        33 26
        ECZ   EP       Z    09 34 30        16
        KRP   P        ZNE 09 34 31.7       16
        WTZ   EP       Z    09 34 31        16
        GNZ   EP       ZNE 09 34 33         17
        WEL   EP       ZNE 09 35 03         19

JUN 12  RAO   IP       Z    12 20 46.7U
              S        Z        21 07.5

         H  M  S       EPICENTRE    DEPTH  MAG
JUN 12  19 47 37.2     53.3N 166.8W  44KM  5.8  ALEUTIAN IS.
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P        Z    19 58 31        67
              ES       ZNE 20 07 19
              ESS      E       11 36
              ESSS     ZNE     15 00
              ELR      ZN      18
        NDF   EP       Z    19 58 59        72
        RAR   EP       Z    19 59 10        74
              S        ZNE 20 08 48
              SS       ZN      13 40
              LR       ZN      21
        KRP   P        ZNE 20 00 43.1       92
        SBA   EPKP     ZNE 20 06 46        132
              EPKS     ZNE     10 09

JUN 12  RAO   (P)      Z    21 01 42.0
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JUN 13  RAO    P        Z   00 46 13.4
               S        Z        38.0

JUN 13  RAO    P        Z   01 33 55.0
               S        Z        34 20.6

JUN 13  AFI    P        ZNE 04 00 10
              (S)       ZNE     01 34

JUN 13  RAO    P        Z   13 41 38.0

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 13  16 58 36.1    29.7S 177.3W   46KM  5.5  KERMADEC IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   IP        Z   16 58 49.90      1
        KRP   EP        ZNE 17 00 59         10
              E         ZNE     02 14.1
              ES        ZNE     03 30.2
        MNG   EP        Z   17 01 17         12
              ES        Z       03 39
        NDF   EP        Z   17 01 39         13
              E         Z       43.0
        WEL    P        ZNE 17 01 42.3       13
              ES        ZNE     03 57
        MJZ   EP        ZNE 17 02 31         17
              ES        ZNE     05 34
        MSZ    P        Z   17 02 51.8       19 -0.56                      5.6
              ES        Z       06 14
        RAR   EP        Z   17 03 34         18
               S        ZNE     07 37
               T        ZNE     19 20
        SBA   EP        ZNE 17 07 20         49
              ES        ZNE     14 28
              ELR       ZNE     22 00
        FELT RAOUL IS MM III

JUN 13  AFI    P        ZNE 17 02 25
               S        ZNE     05 11
               T        ZNE     16

JUN 13  RAO    P        Z   18 58 23.0

JUN 13  RAO    P        Z   21 59 57.5
               S        Z   22 00 14.0

JUN 13  RAO    P        Z   22 05 03.2
               S        Z       18.0

JUN 13  RAO    P        Z   22 26 48.6
               S        Z       27 04.8

JUN 13  RAO    P        Z   22 31 40.6
               S        Z       55.8

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 14  00 52 35.7    60.5N 153.4W  192KM  5.2  ALASKA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP      ZNE 01 11 38      140

JUN 14  RAO    P        Z   03 13 35.4
               S        Z       49.8

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 14  03 54 00.9    17.3S 167.7E   25KM  4.6  NEW HEBRIDES
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP        Z   03 56 23         9
        KRP   EP        Z   03 58 52        22
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        MNG   P       Z   03 59 17.8      24

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 14  04 51 53.2    10.3S 161.2E   83KM  5.4  SOLOMON IS
                            H  M  S   DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP      Z   04 58 20       33
        MJZ   EP      ZNE 04 58 37.8     35
        MSZ   P       Z   04 58 39.3     35
        SBA   EP      ZNE 05 02 45       69

JUN 14  RAO   P       Z   05 45 12
              (S)     Z       46 10

JUN 14  RAO   P       Z   05 47 08.2
              S       Z           24.6

JUN 14  RAO   P       Z   05 51 05.5
        KRP   EP      Z   05 53 28
        MJZ   EP      Z   05 54 48
        MSZ   EP      Z   05 55 09

JUN 14  RAO   P       Z   06 01 17.2
              S       Z           32.9
        AFI   P       Z   06 06 27
              (S)     ZNE     08 27

JUN 14  WTZ   EP      Z   06 09 55
        MNG   EP      Z   06 10 39

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 14  06 50 45.2    53.7S 140.8E   33KM        W. OF MACQUARIE I.
                            H  M  S   DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   06 55 16.7       20
        MJZ   P       ZNE 06 55 36.5     22
        COB   EP      Z   06 56 06         25
        SBA   EP      ZNE 06 56 16.8     26
        MNG   EP      Z   06 56 27         27

JUN 14  RAO   P       Z   07 52 22.4
              S       Z           38.6

JUN 14  RAO   P       Z   10 23 37.6
              S       Z           56.0

JUN 14  GNZ   P       ZNE 12 44 14.6
        MNG   EP      Z   12 44 58

JUN 14  RAO   P       Z   13 11 42.8
              S       Z           59.6

JUN 14  RAO   P       Z   13 23 48.4
              S       Z       24 13.2

JUN 14  RAO   P       Z   15 24 35.1
              S       Z           51.0

JUN 14  AFI   EP      Z   16 14 28
              S       ZNE     15 11
              T       ZNE     17 38

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 14  17 54 22.4    33.4N 140.6E   72KM  4.5  S. OF HONSHU
                            H  M  S   DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   17 16 16.4       78
        MNG   EP      Z   17 16 28         80

JUN 14  RAO   P       Z   19 37 33.3
              S       Z           51
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JUN 14  AFI   IP        ZNE 21 11 55.4U
              S         ZNE    12 47

         H  M  S        EPICENTRE    DEPTH  MAG
JUN 15   01 13 41.7     17.7S 174.7W   33KM  5.2  TONGA
                                H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
         AFI   P         ZNE 01 14 47          5
               S         ZNE    15 56
               T         ZNE    19 10
         NDF   EP        Z   01 15 35          7
         RAR   EP        Z   01 17 08         15
               S         ZNE    20 08
               T         ZNE    31 13
         KRP   P         ZNE 01 18 34.8       22
         MNG   EP        Z   01 18 56         24
         SBA   EP        ZNE 01 23 58.2       61

JUN 15   RAO   P         Z   02 58 07.8
               S         Z       30.5
         KRP   EP        Z   03 00 04
         MNG   P         Z   03 00 26.6

JUN 15   RAO   P         Z   03 50 08.7
               S         Z       25.5

         H  M  S        EPICENTRE    DEPTH  MAG
JUN 15   03 50 22.8     29.8S 177.0W   33KM  4.1  KERMADEC IS
                                H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
         KRP   EP        ZNE 03 52 48          10
               E         ZNE    58.8
         GNZ   EP        ZNE 03 52 51          10
               E         Z   53 03
               S         ZNE    54 26.9
         MNG   EP        Z   03 53 09          12
               S         Z      54 27.8
         MJZ   EP        ZNE 03 53 55          17
               E         ZNE    54 20
         AFI   P         ZNE 03 54 14          17
               S         ZNE    56 59
               EL        ZNE    57 20
               T         ZNE 04 10 22
         RAR   EP        Z   03 54 22          18
               ES        ZNE    57 22
               L         ZE     59
               T         ZNE 04 12 23
         SBA   EP        ZNE 03 59 02          49
         FELT RAOUL IS MM II

         H  M  S        EPICENTRE    DEPTH  MAG
JUN 15   11 52 03.5     6.4S 105.3E   88KM  5.6  W. JAVA
                                H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
         MNG   EP        Z   12 03 14          71
         SBA   EP        ZNE 12 03 53          78

JUN 15   RAO   P         Z   12 40 23.0
               S         Z       42.8

JUN 15   RAO   P         Z   13 28 29.2
               S         Z       29 09.6

JUN 15   RAO   P         Z   13 58 08
              (S)        Z       35

JUN 15   RAO   IP        Z   14 54 34.0
               S         Z       47.5
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	H	M	S	EPICENTRE		DEPTH	MAG								
JUN 15	15	21	20.3	42.4N	143.0E	76KM	5.5	HOKKAIDO							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	15	34 07		85	0.08							7.2
		(*PP)		Z		17										
	MNG	P		Z	15	34 03		88	1.30							8.5
		*PP		Z		18										
	SBA	EPKP		ZNE	15	40 05		121								
JUN 15	AFI	P		ZNE	20	36 53										
JUN 16	RAO	P		Z	02	47 52.1										
		S		Z		48 08.0										
JUN 16	RAO	P		Z	03	03 44.4										
		S		Z		04 04.6										
	H	M	S	EPICENTRE		DEPTH	MAG								
JUN 16	12	37	20.3	33.4N	140.9E	44KM	4.2	S. OF HONSHU							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP		Z	12	49 21		80								
	H	M	S	EPICENTRE		DEPTH	MAG								
JUN 16	13	40	09.3	17.7S	178.6W	570KM	4.7	FIJI REGION							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P		Z	13	41 30.8U		4								
	AFI	P		ZNE	13	41 58		8								
		S		ZNE		43 34										
	GNZ	EP		Z	13	44 04		21								
	MNG	EP		Z	13	44 32		23								
	COB	E(P)		Z	13	44 42		24								
JUN 16	AFI	P		ZNE	14	18 17										
		S		ZNE		19 45										
JUN 16	SBA	EP		ZNE	14	25 49.5										
	H	M	S	EPICENTRE		DEPTH	MAG								
JUN 16	14	33	14.0	18.2S	69.5W	126KM	4.9	N. CHILE							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	14	45 06		79								
	H	M	S	EPICENTRE		DEPTH	MAG								
JUN 16	15	33	42.9	10.7S	113.8E	33KM	5.4	S. OF JAVA							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	15	45 06.5		72								
	H	M	S	EPICENTRE		DEPTH	MAG								
JUN 16	15	46	19.7	10.7S	113.9E	33KM	5.2	S. OF JAVA							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	15	57 43.8		72								
JUN 16	RAO	P		Z	16	14 17.1										
		S		Z		32.0										
JUN 16	RAO	P		Z	20	23 40.1										
		S		Z		54.9										
JUN 17	AFI	P		ZNE	00	43 24										
		S		ZNE		45 01										
	H	M	S	EPICENTRE		DEPTH	MAG								
JUN 17	00	48	59.1	20.4S	169.2E	64KM	4.7	NEW HEBRIDES							
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	00	51 02.5		8								
	KRP	EP		Z	00	52 59.8		18								
		*SP		ZNE		53 21										

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                E          Z       54 25
        AFI     P          Z    00 53 19          19
                SS         E       57 00
                LR         ZNE     58 36
        GNZ     IP         ZNE 00 53 24.9J       20  4.20                    10.4
                E          ZNE     55 25
        WEL     EP         Z    00 53 33          21
                *PP        Z       43.0
                ES         ZNE     57 42
        MNG     IP         Z    00 53 36.9J       21  0.70                    6.9
                *PP        Z       46.9
        COB     EP         Z    00 53 40          21
                E*PP       Z       53
        MJZ     P          ZN   00 54 06.2        24
                *PP        ZN      18.5
                *SP        ZN      33.1
        MSZ     EP         Z    00 54 13          24 -1.06                    5.4
                *SP        Z       40.2
        SBA     EP         ZNE 00 56 43           59

JUN 17  RAO     P          Z    03 37 18.5
                S          Z       53.0
        GNZ     EP         ZNE 03 38 35              -0.58
                S          ZNE     40 15
        KRP     EP         Z    03 38 43
                E          Z       43 13
        MNG     EP         Z    03 39 05             -0.33
                S          Z       41 10.9
        WEL     P          ZNE 03 39 16.6
                S          ZNE     41 28.5
                E          ZNE     43 31
        COB   E(P)         Z    03 39 23
                ES         Z       41 42

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 17  05 57 23.1   21.4S 174.4W   41KM  4.8  TONGA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P          ZNE 05 59 08          8
                S          ZNE 06 00 28
                T          ZNE     07
        NDF     EP         Z    05 59 36         9
        RAR     P          Z    06 00 24        14
                S          NE      02 38
        MNG     EP         Z    06 02 10        21
        SBA     EP         ZNE 06 07 14         57

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 17  07 25 04.8    5.7S 147.3E  197KM  5.2  NEW GUINEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P          Z    07 32 33         41
        KRP     P          Z    07 32 34.2       41
        COB     P          Z    07 32 41.8       42
        GNZ     EP         Z    07 32 45         43
        MNG     EP         Z    07 32 48         43 -1.30                    5.2

JUN 17  NDF     P          Z    11 09 27.2J
                E          Z       43.0
                E          Z    10 41
        KRP     P          ZNE 11 11 54.9           -1.56
        GNZ     P          ZNE 11 11 55.2
        MNG     P          Z    11 12 14.4

         H  M  S      EPICENTRE    DEPTH  MAG
JUN 17  12 44 27.4   11.0S 166.2E  127KM  4.7  SANTA CRUZ IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF     EP         Z    12 47 35         13
        KRP     IP         ZNE 12 50 08.2J       29 -1.16                    5.4
                I          Z       14.9D
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	GNZ	IP	ZNE	12	50	18.9D	29	-0.73						5.9
		I	Z			26.7D								
	MNG	IP	Z	12	50	29.2D	31	-1.38						5.3
		E	Z			38								
	COB	EP	Z	12	50	30.3	31							
	MJZ	EP	ZNE	12	50	52.7	33	-1.58						5.2
		E	Z		51	01.5								
	SBA	EP	ZNE	12	55	06.5	67							

	H	M	S	EPICENTRE			DEPTH	MAG						
JUN 17	18	45	58.6	11.1S	112.3E		33KM	5.3	S. OF JAVA					
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	P	Z	18	56	01.4		60								

	H	M	S	EPICENTRE			DEPTH	MAG						
JUN 17	22	34	09.7	31.5S	179.0W		72KM	5.1	KERMADEC REGION					
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P	Z	22	34	39.3		2								
	ECZ	EP	Z	22	35	44		7								
	GBZ	P	Z	22	35	46.3		7								
	GNZ	EP	ZNE	22	35	54		8								
	CRZ	EP	ZNE	22	35	57		9								
	KRP	IP	ZN	22	36	03.1DS		9	-1.00							
		(PP)	Z			12										
		E	Z			44										
	MNG	P	Z	22	36	34.5		10								
	SBA	IP	ZNE	22	42	36		47								

	H	M	S	EPICENTRE			DEPTH	MAG						
JUN 18	00	08	34.5	37.2S	95.2W		33KM	5.1	S. PACIFIC OCEAN					
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	01	08	10		56								

	H	M	S	EPICENTRE			DEPTH	MAG						
JUN 18	01	00	43.9	37.2S	95.2W		33KM	5.6	S. PACIFIC OCEAN					
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	01	10	19		56								
	RAR	S	E	01	18	42		58								
		L	ZNE		27											
	WEL	EP	Z	01	11	45		67								
		ES	ZNE		20	18										
	AFI	S	ZNE	01	21	16		71								
		LR	ZNE		33											
JUN 18	RAO	P	Z	04	30	54.8										
		S	Z		31	14.4										

	H	M	S	EPICENTRE			DEPTH	MAG						
JUN 18	13	26	51.2	14.5S	166.6E		8KM	4.9	NEW HEBRIDES					
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	13	29	37		11								
	KRP	P	ZN	13	32	16.7		25	-1.21							5.3
	WTZ	EP	Z	13	32	27		25								
	GNZ	EP	ZNE	13	32	31		26								
	MNG	EP	Z	13	32	35		27								

	H	M	S	EPICENTRE			DEPTH	MAG						
JUN 18	13	38	16.0	13.2N	143.8E		155KM	5.2	CAROLINE IS					
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	IP	ZN	13	48	01.6D		59	-1.21							5.8
	COB	P	Z	13	48	09.6		60	-1.01							6.0
	MNG	IP	Z	13	48	13.9J		61	-1.22							5.8
	MSZ	IP	Z	13	48	18.8J		62	-0.91							6.1
	MJZ	P	Z	13	48	21.7		62	-1.29							5.7

	H M S	EPICENTRE	DEPTH MAG	
JUN 18	14 04 15.2	24.2S 67.0W	146KM 5.3	ANDES

			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	IP	ZNE 14 15 33.8	D		73 +0.86							6.0
JUN 18	RAO	P	Z 19 37 43.4										
		S	Z 38 19.2										
	MNG	EP	Z 19 39 22										
		S	Z 41 09.6										
	GNZ	P	ZNE 19 40 08.8										
	WEL	ES	ZNE 19 41 30										
JUN 18	AFI	P	ZNE 22 19 54										
		S	ZNE 20 22										

	H M S	EPICENTRE	DEPTH MAG	
JUN 19	01 02 53.9	52.2N 175.0E	33KM 5.3	ALEUTIAN IS

			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z 01 15 49			90							
	MNG	EP	Z 01 15 58			92							
		(*PP)	Z 16 16										

	H M S	EPICENTRE	DEPTH MAG	
JUN 19	01 32 19.0	13.3N 120.3E	49KM 5.3	CENTRAL PHILIPPINES

			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	EP	Z 01 43 44			72 +1.65							5.4
		(PCP)	Z 44 00										
	MJZ	EP	ZNE 01 43 45			73 +1.29							5.7
		*PP	ZNE 44 01										
	KRP	EP	Z 01 43 54			73							
	GNZ	EP	ZNE 01 44 09			75 +0.66							6.3
JUN 19	AFI	IP	ZNE 04 21 37	D									
		S	ZNE 55										
JUN 19	AFI	IP	ZNE 11 22 12	J									
		S	ZNE 48										

	H M S	EPICENTRE	DEPTH MAG	
JUN 19	11 49 48.7	13.4S 166.5E	35KM 5.1	NEW HEBRIDES

			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z 11 32 35.6			11							
	AFI	P	ZNE 11 54 32			21							
		S	ZNE 58 28										
		(SSS)	ZE 59 45										
	KRP	EP	ZN 11 55 21			26							
		*PP	ZN 31										
		PCP	Z 58 19										
	WTZ	EP	Z 11 55 34			26							
		*PP	Z 44										
		(PCP)	Z 58 35										
	MNG	EP	Z 11 55 39			29							
	MSZ	EP	Z 11 56 06			31							
	SBA	EP	ZNE 12 00 22.2			64							
JUN 19	NDF	E(P)	Z 13 53 08										
		E	Z 32										

	H M S	EPICENTRE	DEPTH MAG	
JUN 19	15 12 50.8	49.9N 173.6W	33KM 5.4	ALEUTIAN IS

			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	ZN 15 25 37			88 +1.00							6.3
		PCP	ZN 45										
JUN 19	SBA	EP	ZNE 15 30 10										
		EPP	ZNE 17										
		ES	ZNE 33 30										

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          EL      ZNE     34 10
     MSZ  EP      Z   15 30 54

JUN 19 RAO   P      Z   17 32 00.9
             S      Z          17.6

          H  M  S       EPICENTRE     DEPTH  MAG
JUN 20    01 41 53.0    60.6S 154.1E   33KM   5.4  W. OF MACQUARIE I.
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          CBZ  EP       Z   01 44 38        13
          SBA  EP       ZNE 01 45 54.5      18
               ES       ZNE    49 32
               EL       ZNE    50 12
          ROX  IP       ZNE 01 46 00  J     18          11  8                  6.2
               LR       ZNE    50
          MSZ  P        Z   01 46 03        18  0.05                           6.2
               PP       Z          27
          MJZ  P        ZNE 01 46 19        19  0.12                           6.3
               PP       ZNE        45
          WEL  IP       ZNE 01 47 00  JNE   23
               L        ZNE    53
          MNG  P        Z   01 47 07        24 -0.21                           6.2
               E        Z          28
          KRP  EP       ZN  01 47 27        26
               PP       ZN         55
               PPP      ZN     48 08
          RAR  S        ZE  01 58 16        51
               L        ZNE 02 03
          AFI  ES       ZNE 01 58 45        53
               ESS      E   02 02 25
               SSS      E      04 00
               LQ       N      05
               LR       Z      07

JUN 20 RAO   P      Z   05 17 19.4
             S      Z          46.0

          H  M  S       EPICENTRE     DEPTH  MAG
JUN 20    10 18 55.6    12.1S 166.6E  135KM  4.8  SANTA CRUZ IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNG  EP       Z   10 24 47        29 -1.49                           5.1
          MJZ  EP       Z   10 25 11        32 -1.29                           5.4
          MSZ  EP       Z   10 25 15        32 -1.29                           5.4

JUN 20 RAO   IP     Z   11 37 06.2
             S      Z          18.5

JUN 20 AFI   IP     ZNE 15 08 55  D
             S      ZNE    09 12

          H  M  S       EPICENTRE     DEPTH  MAG
JUN 20    15 17 30.8    7.3S 106.4E   96KM   5.2  JAVA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNG  EP       Z   15 28 30        69
               E-PP     Z          42
               EPP      Z      30 32

          H  M  S       EPICENTRE     DEPTH  MAG
JUN 20    17 52 40.3    15.1S 173.9W   45KM   4.6  TONGA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI  IP       ZNE 17 03 11.5  J     2
               S        ZNE        32
          MNG  EP       Z   17 08 21        27 -1.64                           4.9
          COB  EP       Z   17 08 32        28
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	H M S	EPICENTRE	DEPTH	MAG	
JUN 20	18 25 43.1	2.6N 125.8E	84KM	5.2	S. OF MINDANAO

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z	18	35 44.3		60	-1.06							6.1
		PCP	Z		36 20										
	KRP	EP	Z	18	35 50		61								
		*PP	Z		36 10										
	MJZ	EP	ZNE	18	35 50		61								
		E	ZNE		36 04										
	COB	P	Z	18	35 53.2		61	-1.13							6.1
	MNG	EP	Z	18	35 53		62								

	H M S	EPICENTRE	DEPTH	MAG	
JUN 21	04 39 39.2	18.0S 174.7W	132KM	5.2	TONGA

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	04	40 47		5								
		S	ZNE		41 36										
	NDF	EP?	Z	04	41 36		7								
		E	Z		45.4										
	WTZ	P	Z	04	44 19.9		21								
	KRP	IP	ZNE	04	44 20.1	DN	22	-0.85							5.5
		E(*PP)	Z		43										
		E	Z		45 50										
	MNG	EP	Z	04	44 42		24								
	COB	EP	Z	04	44 56		28								
	MSZ	EP	Z	04	45 40		30								
	SBA	EP	ZNE	04	49 38		61								
JUN 21	NDF	P	Z	06	22 27.5										
		E	Z		49										
JUN 21	RAO	(P)	Z	09	02 12.0										

	H M S	EPICENTRE	DEPTH	MAG	
JUN 21	13 16 51.7	17.6S 166.9E	10KM	5.2	NEW HEBRIDES

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z	13	19 23.2		10								
	KRP	P	ZNE	13	21 44.8		22	+0.72							5.6
	WTZ	EP	Z	13	21 50		22								
	CNZ	EP	Z	13	21 58		23	-1.12							5.3
	COB	P	Z	13	22 08		24								
	MNG	IP	Z	13	22 08.30		24	-0.76							5.7
	SBA	EP	ZNE	13	27 02		60								

	H M S	EPICENTRE	DEPTH	MAG	
JUN 21	15 07 38.8	8.2S 119.2E	33KM	5.3	FLORES REGION

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB	P	Z	15	17 36.8		57								
	KRP	EP	Z	15	17 36		59								
	MNG	P	Z	15	17 39		59	-1.31							5.9

	H M S	EPICENTRE	DEPTH	MAG	
JUN 21	15 29 50.7	32.0N 131.8E	41KM	5.4	KYUSHU

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	15	41 16		71								
		ES	Z		50 28										
		LR	Z	16	03										
	KRP	P	ZNE	15	42 10.2		81	-0.86							6.3
		E	Z		27										
	COB	P	Z	15	42 16		82	-0.64							6.5
	MNG	P	Z	15	42 20.4		83	-0.94							6.2
		*PP	Z		32.7										
	MSZ	P	Z	15	42 23		83								
JUN 21	AFI	IP	ZNE	19	26 18	D									
		S	ZNE		29										

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          H  M  S       EPICENTRE    DEPTH  MAG
JUN 22   10 44 08,7    30,1S 177,8W   62KM        KERMADEC IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO   P        Z   10 44 24,9       1
               ES       Z         43,0
         WTZ E(P)       Z   10 46 09          9
               S        Z   47 48
         KRP   E        Z   10 46 28         10
         MNG   EP       Z   10 46 52         12
               S        Z   48 54
         FELT RAOUL IS

JUN 22   RAO   P        Z   10 56 22,9
               S        Z         51,0

JUN 22   AFI   IP       ZNE 11 20 39  J
               S        ZNE       59

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 23   08 48 22,8    33,3N 140,7E   66KM   4,8  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   P        ZNE 09 00 16,7       78 +1,12                    5,9
               *PP      Z         29,8
               E        Z         48
         MNG   P        Z   09 00 27,2       80 +1,61                    5,4
               *PP      Z         41
         MSZ   EP       Z   09 00 31         81

JUN 23   AFI   IP       ZNE 11 36 13  D
               S        ZNE       44

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 23   16 06 03,8    20,3S 178,4W  595KM   4,4  FIJI REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   P        Z   16 07 35,5U       5
         AFI   P        ZNE 16 08 08          9
               S        ZNE    09 51
         KRP   P        ZNE 16 09 43,8       18 +0,92                    5,5
         GNZ   EP       ZNE 16 09 46         19 +1,00                    5,5
               S        NE     12 45
         MNG   EP       Z   16 10 04         21
         COB   EP       Z   16 10 15         22 +1,30                    5,2
         MSZ   P        Z   16 11 02         27 +1,40                    5,1

JUN 23   RAO   P        Z   16 09 52

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 23   16 30 22,2    30,3N 136,8E  508KM   4,7  SHIKOKU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   EP       Z   16 41 24         77

JUN 23   AFI   P        Z   16 52 18
               S        ZNE    53 50

JUN 23   NDF   P        Z   17 23 54
               ES       Z      25 07

          H  M  S       EPICENTRE    DEPTH  MAG
JUN 24   05 48 29,4    16,6S 173,7W   33KM   4,6  TONGA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         AFI   P        ZNE 05 49 18          3
               S        ZNE    49
         NDF   EP       Z   05 50 48          9
         KRP   EP       Z   05 53 37         23
         COB   EP       Z   05 54 12         27

JUN 24   RAO   P        Z   05 58 49,6
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                S       7       59 50.3

          H  M  S        EPICENTRE    DEPTH  MAG
JUN 24    09 44 41.3     16.9S 173.0W   33KM  4.2  TONGA
                                H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          AFI    P        ZNE 09 45 25        3
                 S        ZNE    46 00
                 T        ZNE    48 38
          NDF    EP       Z   09 47 05        9
          RAR    (S)      ZNE 09 51 00       13
          KRP    IP       ZNE 09 49 49.2U    23 -1.31                          5.1
          MNG    P        Z   09 50 10       26 -1.70                          4.8
          COB    P        Z   09 50 26       27

          H  M  S        EPICENTRE    DEPTH  MAG
JUN 24    15 04 36.2     15.1S 173.6W   33KM  4.8  TONGA
                                H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          AFI    IP       ZNE 15 05 03.5D    2
                 S        ZNE        24
          NDF    EP       Z   15 06 58        9
          RAR    P        Z   15 07 50       14
                 (S)      NE     09 27
                 T        ZNE    21 52
          KRP    P        Z   15 09 56.8     25
          MNG    EP       Z   15 10 11       27
          COB    P        Z   15 10 29.5     28
          SBA    EP       ZNE 15 15 04.5     64

          H  M  S        EPICENTRE    DEPTH  MAG
JUN 24    15 29 22.2     36.2N  69.7E   47KM  6.0  HINDU KUSH
                                H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    EPKP     Z   15 48 09      120
          AFI    EPP      Z   15 49 40      121
                 EPPS     Z   16 01 12
                 ESSP     Z       06 56
                 ESSS     Z       11 00
          COB    PKP      Z   15 48 11.6    122
          KRP    PKP      ZNE 15 48 13.5    122
          WEL    E        Z   15 49 49      123
                 EPPP     Z       54 18
                 ESKS     NE      56 06
                 EPPS     ZNE 16 01 34
                 EPKPPKP  Z       06 09
                 ESSS     ZNE     11 06
                 EL       Z       27
          MNG    PKP      Z   15 48 14.4    123
          SBA    EPKP     ZNE 15 48 15      127
                 EPP      ZNE     50 19
                 EPS      ZNE 16 00 31
                 ESS      ZNE     07 29
                 EL       ZNE     22 10

JUN 24    AFI    P        ZNE 21 44 38
                 S        ZNE     45 18

          H  M  S        EPICENTRE    DEPTH  MAG
JUN 24    22 58 18.9     11.7N 142.7E   49KM  5.0  CAROLINE IS
                                H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          MNG    EP       Z   23 08 30       60

          H  M  S        EPICENTRE    DEPTH  MAG
JUN 24    23 20 03.4      1.5N 127.5E  200KM  5.6  HALMAHERA
                                H  M  S  DIR DIS LGM A/T  AZ TZ  AN TN  AE TE  MAG
          NDF    P        Z   23 29 02.5      53
          MSZ    P        Z   23 29 39.8U     59 -0.64                          6.2
                 (sPP)    Z       30 42
          COB    P        Z   23 29 44.2      59 -0.92                          5.9
          KRP    EP       Z   23 29 45        59
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          PCP     Z      30 32
     WEL   P      ZNE 23 29 51.5      60
     MNG   IP     Z   23 29 51.6U     60 =1.05                          5.8
     AFI   P      ZNE 23 30 06        62
     SBA   IP     ZNE 23 32 03        82

      H  M  S      EPICENTRE    DEPTH  MAG
JUN 25 06 20 04.8  17.8S 167.3E   33KM  4.8  NEW HEBRIDES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     NDF   P      Z   06 22 29.4D     10
     KRP   EP     Z   06 25 03        21
     MNG   EP     Z   06 25 16        24

      H  M  S      EPICENTRE    DEPTH  MAG
JUN 25 15 34 04.9  24.0S 180.0E 515KM  4.5  S. OF FIJI
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     RAO   P      Z   15 35 39.8      6
           S      Z      36 51.7
     NDF   P      Z   15 35 50.8      7
           ES     Z      37 14.5
     AFI   P      ZNE 15 36 45        13
           S      ZNE    38 56
     WTZ   EP     Z   15 37 08        14
           ES     Z      39 33
     KRP   P      ZNE 15 37 11        14 =1.26
           S      NE     39 49.4
     GNZ   EP     Z   15 37 10        15
           IS     ZNE    39 47.8
     MNG   P      Z   15 37 33        17
           S      Z      40 24

JUN 25 AFI   P      Z   16 22 40
           S      ZNE    23 25

JUN 25 AFI   P      Z   23 38 05
           S      ZNE       58

      H  M  S      EPICENTRE    DEPTH  MAG
JUN 25 23 57 55.1  24.3S 180.0E 464KM  4.6  S. OF FIJI
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     RAO   P      Z   23 59 24.3      5
           S      Z   24 00 32.1
     NDF   P      Z   23 59 47        7
           E      Z   24 00 42
           ES     Z      01 18
     AFI   P      ZNE 24 00 44        13
           S      ZNE    02 54
     WTZ   EP     Z   24 00 53        14
           ES     Z      03 19
     KRP   P      ZNE 24 00 56.8      14 =1.00
           S      ZNE    03 28.7
     GNZ   P      ZNE 24 00 59.0      14
           S      ZNE    03 33.3
     MNG   P      Z   24 01 19.3      17
           S      Z      04 10.2

JUN 26 AFI   P      Z   00 27 21

      H  M  S      EPICENTRE    DEPTH  MAG
JUN 26 08 08 24.8  21.1N 120.3E   33KM  5.0  TAIWAN
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   EP     Z   08 20 28        79
     MJZ   EP     Z   08 20 39        79

      H  M  S      EPICENTRE    DEPTH  MAG
JUN 26 10 55 59.2  51.9N 156.0E 189KM  5.6  KAMCHATKA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP   EP     Z   10 18 41        91
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                *PP     Z       19 29
          MNG   EP      Z    10 18 57        94
                *PP     Z       19 44

           H  M  S       EPICENTRE    DEPTH  MAG
JUN 26    17 41 34.3    26.1S 179.7E  487KM  4.6  S. OF FIJI
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   P       Z    17 42 50.6       4
                S       Z       43 53.3
          NDF   EP      Z    17 43 38.5       9
          KRP   EP      ZNE  17 44 18        12 -1.38
                S       ZNE     46 37
          GNZ   EP      ZNE  17 44 19        13 -0.21
                S       ZNE     46 32
          AFI   P       ZNE  17 44 37        15
                S       ZNE     47 06
          MNG   P       Z    17 44 40.7      15 -1.49
                S       Z       47 14
          COB   P       Z    17 44 55.3      16
                S       Z       47 43
          MSZ   EP      Z    17 45 44        21
                ES      Z       49 01

JUN 27    AFI   IP      ZNE  00 26 37  D
                S       ZNE     27 12

JUN 27    NDF   IP      Z    05 01 56.7U

           H  M  S       EPICENTRE    DEPTH  MAG
JUN 27    08 17 29.3     4.3S 152.9E   64KM  4.9  NEW BRITAIN
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   EP      Z    08 24 54        39
          COB   P       Z    08 25 06.3      41 -0.61                        6.2
                PCP     Z       27 05
          MNG   P       Z    08 25 10.6      41
                PCP     Z       27 06
          MSZ   P       Z    08 25 18.9      42
                PCP     Z       27 10

JUN 27    AFI   P       ZNE  08 49 59
                S       ZNE     50 52

JUN 27    AFI   P       ZNE  19 52 06
                S       ZNE     26

           H  M  S       EPICENTRE    DEPTH  MAG
JUN 28    01 50 43.9    37.4N 141.3E   70KM  5.4  HONSHU
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   E       Z    02 03 11        81
          MNG   EP      Z    02 03 07        84
          MJZ   P       ZNE  02 03 15        85
                *PP     ZNE     30
          MSZ   P       Z    02 03 15        85
                *PP     Z       31

JUN 28    AFI   P       ZNE  04 15 38
                S       ZNE     16 28

JUN 28    RAO   P       Z    06 15 23.4
                S       Z       43.3

           H  M  S       EPICENTRE    DEPTH  MAG
JUN 28    09 27 49.5    33.4N 140.8E   69KM  5.2  S. OF HONSHU
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   IP      ZNE  09 39 43.4J     78 -0.93                        6.1
          MNG   IP      Z    09 39 54.6D     80 -1.42                        5.6
          MSZ   P       Z    09 40 01        82 -1.32                        5.7
          MJZ   P       ZNE  09 40 01        82 -1.35                        5.7
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	H M S	EPICENTRE	DEPTH	MAG	
JUN 28	09 49 34.9	27.6N 33.8E	15KM	5.6	EGYPT

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPKP	ZNE 10 08 36.3			125							
	COB	EPKP	Z 10 09 08			144							
	NDF	EPKP	Z 10 09 16			145							
	MNG	EPKP	Z 10 09 14			146							
	KRP	PKP	ZNE 10 09 17.4			146							
	AFI	PKP	Z 10 09 34			153							

	H M S	EPICENTRE	DEPTH	MAG	
JUN 28	20 14 20.2	49.2S 30.7E	33KM	5.1	S. OF AFRICA

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 20 23 15			50							

	H M S	EPICENTRE	DEPTH	MAG	
JUN 29	03 44 10.0	11.4N 125.7E	67KM	5.1	CENTRAL PHILIPPINES

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	EP	Z 03 55 02			68							
		(*SP)	Z 32										
	KRP	EP	Z 03 55 03			68							
	MJZ	EP	Z 03 55 09			68							
	MNG	EP	Z 03 55 12			69							

	H M S	EPICENTRE	DEPTH	MAG	
JUN 29	16 22 07.5	9.9S 160.1E	40KM	5.5	SOLOMON IS

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP?	Z 16 26 32			19							
	AFI	EP	Z 16 27 54			28							
	MNG	EP	Z 16 28 33			33							
	MJZ	EP	Z 16 29 00			35							
	SBA	EP	ZNE 16 33 05.8			68							
JUN 29	RAO	P	Z 16 23 30.0										
		S	Z 30.1										

	H M S	EPICENTRE	DEPTH	MAG	
JUN 29	22 12 58.7	20.1S 178.3W	608KM	4.5	FIJI REGION

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z 22 14 31.0U			5							
		E	Z 50										
		E	Z 57.5										
	AFI	P	Z 22 15 02			9							
		S	ZNE 16 41										
	WTZ	P	Z 22 16 34.1			18							
	KRP	P	ZNE 22 16 39			19	-1.2U						5.2
	MNG	EP	Z 22 16 59			21							
	COB	EP	Z 22 17 10			22							
	SBA	EP	ZNE 22 21 57.5			58							
JUN 30	RAO	E(P)	Z 00 36 03.8										
		S	Z 51.8										
JUN 30	AFI	IP	ZNE 05 03 51 J										
		S	ZNE 04 22										

	H M S	EPICENTRE	DEPTH	MAG	
JUN 30	05 05 50.2	49.3S 30.6E	33KM	5.0	S. OF AFRICA

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 05 14 45			50							

	H M S	EPICENTRE	DEPTH	MAG	
JUN 30	05 44 48.4	5.0S 144.6E	83KM	5.2	NEW GUINEA

			H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	IP	ZE 05 52 45.6DW		43	-1.15							5.7
		*PP	Z 53 06										
		*SP	Z 16										

	COB	IP	Z	05	52	50.8D		44									
		*PP	Z		53	09											
	MSZ	IP	Z	05	52	55.1D		44									
	MNG	IP	Z	05	52	58.4U		45	-1.08								5.8
		*PP	Z		53	19											
		*SP	Z			28											
	SBA	EP	ZNE	05	56	16		74									
JUN 30	AFI	IP	ZNE	08	51	08	D										
		S	ZNE			54											

	H	M	S	EPICENTRE			DEPTH	MAG									
JUN 30	09	51	01.5	12.9S		166.1E	42KM	4.8	SANTA CRUZ IS								
					H	M	S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	09	53	56		12								
	AFI	EP		Z	09	55	51		22								
		ELR		ZNE	10	02											
	SBA	EP		ZNE	10	01	38.5		69								

	H	M	S	EPICENTRE			DEPTH	MAG									
JUN 30	11	31	20.1	5.6S		132.6E	33KM	5.5	ARAFURA SEA								
					H	M	S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	11	42	57		74								

	H	M	S	EPICENTRE			DEPTH	MAG									
JUN 30	12	40	00.3	17.9S		178.7E	600KM	5.3	FIJI REGION								
					H	M	S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P		Z	12	41	26.5		1								
		ES		Z		42	38.5										
	AFI	P		ZNE	12	41	52		10								
		S		ZNE		43	23										
	RAO	P		Z	12	42	25.2		12								
		S		Z		44	33.4										
	KRP	IP		ZNE	12	44	00.8U		20	-0.84							5.7
	GNZ	P		ZNE	12	44	01		21								
		(*PP)		Z		45	31										
		S		ZNE		47	15										
	MNG	P		Z	12	44	20		23								
		S		Z		47	50										
	COB	EP		Z	12	44	33		24								
	MSZ	EP		Z	12	45	14		28								
	SBA	IP		ZNE	12	49	15	U	60	-0.93							5.4
JUN 30	AFI	P		ZNE	13	24	18										
		S		ZNE		29	17										

	H	M	S	EPICENTRE			DEPTH	MAG									
JUN 30	15	35	49.1	19.0S		169.2E	180KM	4.8	NEW HEBRIDES								
					H	M	S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	IP		Z	15	37	47.2U		8								
	KRP	IP		ZNE	15	40	06.7U		20	-0.93							5.4
	GNZ	EP		ZNE	15	40	20		21								
		(*PP)		Z		41	00										
		*SP		Z			14										
	MNG	IP		Z	15	40	31.7U		22								
		(*PP)		Z		41	08										
		*SP		Z			23										
	COB	P		Z	15	40	34		22								
	MJZ	EP		Z	15	40	47		23	-1.01							5.6
		*SP		Z		41	44										
	SBA	EP		ZNE	15	45	30.5		59								

	H	M	S	EPICENTRE			DEPTH	MAG									
JUN 30	16	41	54.1	17.7S		167.3E	33KM	5.1	NEW HEBRIDES								
					H	M	S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	16	44	19		10								
	COB	EP		Z	16	47	07		24								
	MNG	EP		Z	16	47	07		24								

JUN 30	AFI	P	Z	20	14	44															
		S	ZNE		15	20															
JUL 01	RAO	IP	Z	01	47	56.4J															
		S	Z		48	11.5															
JUL 01	RAO	IP	Z	03	22	54.6															
		S	Z		23	10.5															
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 01	05	44	48.2	21.9S	175.0W			41KM	5.0	TONGA											
					H	M	S	DIR	DIS	LG	A	T	AZ	TZ	AN	TN	AE	TE	MAG		
	RAO	P	Z	05	46	38.0			8												
		S	Z		47	05.0															
	NDF	P	Z	05	46	54.9			9												
	AFI	P	Z	05	46	46			9												
		S	ZNE		48	18															
		T	ZNE		55	13															
	KRP	EP	Z	05	49	00			18												
	MNG	EP	Z	05	49	20			20												
	COB	EP	Z	05	49	38			22												
	MSZ	EP	Z	05	50	29			27												
	SBA	EP	ZNE	05	54	30.5			57												
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 01	10	22	13.7	33.5S	179.0W			63KM	5.2	S. OF KERMADEC IS											
					H	M	S	DIR	DIS	LG	A	T	AZ	TZ	AN	TN	AE	TE	MAG		
	RAO	P	Z	10	23	09.8			4												
		S	Z		24	01.4															
	GNZ	P	Z	10	23	35.8			6												
		I	ZNE			39.2U															
		IS	ZNE		24	43.5															
	KRP	P	ZNE	10	23	46.7			6												
	CRZ	P	ZNE	10	23	54			7												
	COB	P	Z	10	24	31.6			10												
		ES	Z		26	24															
	SBA	EP	ZNE	10	30	30			45												
JUL 01	RAO	EP	Z	14	45	47.0															
		S	Z		46	11.3															
	GNZ	EP	Z	14	47	04															
		ES	ZNE		48	30															
	MNG	ES	Z	14	49	28															
JUL 01	GNZ	EP	ZNE	15	57	09															
		S	ZNE	16	00	37															
	KRP	P	ZNE	15	57	12.4															
	MNG	P	Z	15	57	33															
	COB	P	Z	15	57	47.2															
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 01	17	17	49.9	13.1S	166.1E			19KM	4.4	NEW HEBRIDES											
					H	M	S	DIR	DIS	LG	A	T	AZ	TZ	AN	TN	AE	TE	MAG		
	NDF	EP?	Z	17	20	46			12												
	AFI	ES	ZNE	17	29	08			22												
JUL 01	AFI	P	Z	18	09	53															
		S	ZNE		11	28															
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 02	00	47	37.7	20.8S	174.2W			33KM	4.6	TONGA											
					H	M	S	DIR	DIS	LG	A	T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	P	ZNE	00	49	18			7												
		S	ZNE		50	33															
		T	ZNE		56	10															
	RAO	P	Z	00	49	46.2			9												
		S	Z		51	25.3															

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        KRP   EP        Z   00 52 02        19
        MNG    P        Z   00 52 25        22
        SBA   EP        ZNE 00 57 29        58

         H  M  S        EPICENTRE    DEPTH  MAG
JUL 02  09 01 45.6      5.1S 153.6E  67KM   4.7  NEW IRELAND
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z   09 09 02.9       38
        COB    P        Z   09 09 14        40
        MNG   IP        Z   09 09 19.2D      40
        MJZ    P        Z   09 09 28        41
        MSZ    P        Z   09 09 30.5      41

JUL 02  WTZ    P        Z   09 26 16
        GNZ    P        Z   09 26 21
        KRP    P        Z   09 26 21.2
        MNG    P        Z   09 26 41
               ES       Z       29 35
        COB   EP        Z   09 26 54

         H  M  S        EPICENTRE    DEPTH  MAG
JUL 02  12 56 06.7      30.1N  50.8E  31KM   5.4  IRAN
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP      ZNE 13 15 04       125
        COB   EPKP      Z   13 15 19       132
        KRP   EPKP      Z   13 15 24       134
              (PP)      Z       18 54
        MNG   EPKP      Z   13 15 24       134
              (PP)      Z       18 54

JUL 02  NDF    P        Z   20 16 11.5

         H  M  S        EPICENTRE    DEPTH  MAG
JUL 02  21 04 29.6      10.5S 124.2E  46KM   5.1  TIMOR
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P        Z   21 13 27        51
        COB    P        Z   21 13 40        52
        KRP    P        Z   21 13 47        53
        MNG    P        Z   21 13 51.7      54
        SBA   EP        ZNE 21 15 43.3      71

         H  M  S        EPICENTRE    DEPTH  MAG
JUL 03  01 19 26.7      18.7N 145.1E 618KM  5.7  MARIANA IS
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP        Z   01 27 16.5      48
        AFI    P        Z   01 27 53        53
        KRP    P        ZNE 01 28 58.7D     63 -0.9I                        5.5
        COB    P        Z   01 29 07        65
        GNZ    P        ZNE 01 29 07.2J     65
        MNG    P        Z   01 29 10.1D     65 -0.86                        5.7
        MSZ    P        Z   01 29 18.3J     66 -1.06                        5.5
               E*PP     Z       31 22
        MJZ    P        ZNE 01 29 18.6J     67 -1.24                        5.3

         H  M  S        EPICENTRE    DEPTH  MAG
JUL 03  01 59 42.1      47.1S  33.6E  33KM   5.3  S. INDIAN OCEAN
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   IP        ZNE 02 08 51.6       52
        MJZ    P        Z   02 12 00        82

         H  M  S        EPICENTRE    DEPTH  MAG
JUL 03  03 04 52.2      21.0S 179.3W 579KM  4.0  FIJI REGION
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP        Z   03 06 29.3D      4
        RAO    P        Z   03 06 54.5       9
               ES       Z       08 33
        AFI    P        Z   03 07 13        10
               S        ZNE     09 03
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        CRZ   P       Z   03 08 06        15
        KRP   P       ZNE 03 08 24.5      17
        GNZ   P       Z   03 08 26        18
        MNG   P       Z   03 08 46        20
              SCP     Z       15 14
        COB   P       Z   03 08 55.8      21
        MSZ   P       Z   03 09 41        26
        MNW   P       Z   03 09 49.0      27
        SBA   EP      ZNE 03 13 47        37

JUL 03  RAO   P       Z   05 24 45.8
              S       Z       25 29.0
        GBZ   P       Z   05 25 37.9
        ONE   EP      E   05 25 43
        WTZ   E       Z   05 25 44
              EP      Z       47
              ES      Z       27 15
        GNZ   EP      Z   05 25 51
              ES      ZNE     27 19
        KRP   EP      Z   05 25 55
        TUA   ES      Z   05 27 29.5
        TRZ   EP      Z   05 26 04
              ES      Z       27 43
        MNG   E       Z   05 26 14
              EP      Z       18
              ES      Z       28 10
        WEL   P       Z   05 26 29
              ES      ZNE     28 28
        COB   EP      Z   05 26 35
              ES      Z       28 41

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 03  05 31 27.5    5.8N 125.9E   96KM  5.6  MINDANAO
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   05 41 00.8      56
              EPCP    Z       36
        MSZ   P       Z   05 41 45.5      63
        MNW   P       Z   05 41 49.8      63
        KRP   P       ZNE 05 41 50        63
        MJZ   P       ZNE 05 41 51.8      64
        MNG   P       Z   05 41 57        65
        AFI   P       Z   05 42 00        65
        SBA   EP      ZNE 05 44 02        86

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 03  21 57 35.9    45.1S  79.6W  33KM  4.8  S. CHILE
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP      ZNE 22 06 36        51
              ES      ZNE     14 00
              ELQ     ZNE     19 30
              ELR     ZNE     21 30
        AFI   ES      NE  22 31 40        82
              L       Z       35

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 04  01 04 35.1    38.5N 142.0E  52KM  5.3  HONSHU
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   (*PP)   Z   01 17 05        82
        MNG   EP      Z   01 17 05        84
              (*PP)   Z       16
        MSZ   P       Z   01 17 14        86
              (*PP)   Z       25
        MJZ   EP      Z   01 17 15        86
              (*PP)   ZNE     25
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	H M S	EPICENTRE	DEPTH	MAG	
JUL 04	01 40 50.7	33.4N 140.9E	42KM	4.9	S. OF HONSHU

			H M S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	01 52 47.5		79								
MSZ	P	Z	01 53 06		81								
MJZ	P	Z	01 53 06		82								

	H M S	EPICENTRE	DEPTH	MAG	
JUL 04	04 03 21.9	7.4S 106.7E	94KM	5.2	JAVA

			H M S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
MSZ	P	Z	04 13 52		65								
MJZ	P	ZNE	04 14 01		66								
COB	EP	Z	04 14 08		67								
MNG	P	Z	04 14 20		69								
SBA	EP	ZNE	04 15 04		77								

JUL 04	RAO	P	Z	09 15 54.0									
		S	Z	16 24.5									

	H M S	EPICENTRE	DEPTH	MAG	
JUL 04	10 16 12.2	9.4N 122.5E	58KM	5.5	CENTRAL PHILIPPINES

			H M S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
NDF	EP	Z	10 26 22		61								
MSZ	P	Z	10 27 05		68								
COB	EP	Z	10 27 10		68								
KRP	EP	Z	10 27 11		69								
MJZ	P	ZNE	10 27 11		69								
SBA	EP	ZNE	10 29 10		91								
	ESKS	ZNE	39 35										
	ES	ZNE	40 03										
	EPS	ZNE	41 00										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 04	15 32 25.4	9.8S 159.4E	63KM	5.0	SOLOMON IS

			H M S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
NDF	P	Z	15 36 48.1U		19								
AFI	(P)	Z	15 38 20		28								
	S	NE	45 16										
	E	Z	46 50										
KRP	EP	Z	15 38 43		32								
COB	P	Z	15 38 58.7		33								
MNG	P	Z	15 39 01.7		34								
MJZ	P	ZNE	15 39 16.8		35								
MSZ	P	Z	15 39 19		36								
SBA	EP	ZNE	15 43 21.5		68								

JUL 04	AFI	P	Z	22 23 11									
		S	ZNE	39									
		T	ZNE	25 40									

	H M S	EPICENTRE	DEPTH	MAG	
JUL 04	23 44 44.3	31.2S 179.4W	154KM	4.8	KERMADEC REGION

			H M S	DIR	DIS	LGM/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	P	Z	23 45 28.6		2								
	S	Z	46 03.6										
GBZ	EP?	Z	23 46 26		7								
WTZ	EP	Z	23 46 30		7								
	ES	Z	47 57										
ONE	EP	E	23 46 33		7								
CRZ	EP	Z	23 46 36		7								
AUC	EP	Z	23 46 39		7								
GNZ	P	ZNE	23 46 35		8								
	E	ZNE	47 55										
	ES	ZNE	48 01										
KRP	EP	Z	23 46 39		9								
TUA	EP	Z	23 46 44		9								
	ES	Z	48 13										

	WEL	P	ZNE	23	47	17.0		11												
		ES	ZNE		49	15														
	COB	EP	Z	23	47	24		12												
		ES	Z		49	31														
	CIZ	EP	ZNE	23	47	49.5		13												
		ES	ZNE		50	10														
	NDF	EP	Z	23	47	52		14												
	MSZ	P	Z	23	48	25		17												
	SBA	EP	ZNE	23	52	58		47												
	H	M	S	EPICENTRE			DEPTH	MAG												
JUL 05	01	46	26.1	18.7S		169.3E	243KM	4.9	NEW HEBRIDES											
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	NDF	P	Z	01	48	22.0J		9												
	KRP	P	ZN	01	50	42		20												
	MNG	IP	Z	01			J	22	-0.32							6.2				
	COB	P	Z	01	51	10		23												
	MJZ	P	ZE	01	51	33		25												
	SBA	EP	ZNE	01	56	04		59												
JUL 05	AFI	IP	Z	03	58	07.0U														
		S	ZNE			26														
JUL 05	AFI	P	Z	06	26	13														
		S	ZNE		27	32														
	KRP	P	Z	06	29	09														
	MNG	P	Z	06	29	32														
	COB	P	Z	06	29	41														
JUL 05	AFI	EIP	Z	09	00	35														
		S	ZNE			54														
		T(MAX)	NE		02	39														
	H	M	S	EPICENTRE			DEPTH	MAG												
JUL 05	10	16	38.4	49.5N		127.2W	27KM	5.8	VANCOUVER REGION											
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	P	Z	10	28	15		74												
		S	ZNE		37	54														
		LQ	E		47															
		LR	ZN		50															
	H	M	S	EPICENTRE			DEPTH	MAG												
JUL 05	13	35	27.5	56.2S		26.7W	33KM	5.4	SOUTH SANDWICH IS											
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	MSZ	P	Z	13	47	27.6		79												
JUL 05	AFI	P	Z	14	54	15														
		S	ZNE		55	10														
JUL 05	AFI	P	Z	18	18	43														
		S	ZNE		19	02														
JUL 05	NDF	IP	Z	22	15	11.4J														
		S	Z			28.2														
		I	Z			57.6														
JUL 06	MNG	P	Z	01	11	31.7														
		ES	Z		13	37														
JUL 06	MNG	P	Z	04	16	31														
		ES	Z		18	50														
	H	M	S	EPICENTRE			DEPTH	MAG												
JUL 06	14	55	09.4	10.6S		161.6E	56KM	4.3	SOLOMON IS											
				H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	MNG	P	Z	14	11	34		32												
JUL 06	AFI	P	Z	17	46	39														

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                S       ZNE     47 15
                T       ZNE     50 10

JUL 06  RAO     P       Z   20  06 53.8
                S       Z       07 36.8
        AFI     P       Z   20  08 48
                S       ZNE     11 02

JUL 07  AFI     P       Z   01  44 43
                S       ZNE     45 20
                T       ZNE     48 10

         H  M   S        EPICENTRE    DEPTH  MAG
JUL 07  05 07 30.0     11.1S 165.9E    39KM  4.6  SANTA CRUZ IS
                              H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     S       ZNE 05  18 16        22
        KRP     P       Z   05  13 22        28
        WTZ     EP      Z   05  13 26        29
        MNG     P       Z   05  13 44        31

JUL 07  RAO     P       Z   07  10 28.5
                S       Z       48.0

         H  M   S        EPICENTRE    DEPTH  MAG
JUL 07  07 15 19.5     32.5S 178.8W    33KM  4.7  S. OF KERMADEC IS
                              H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO     P       Z   07  16 10.8      3
                S       Z       49.5

JUL 07  AFI     P       Z   10  14 34
                S       ZNE     51

         H  M   S        EPICENTRE    DEPTH  MAG
JUL 07  12 04 11.6     20.5N  98.1E    27KM  5.0  BURMA
                              H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ     P       Z   12  17 17        91
        KRP     P       Z   12  17 27        93
        MNG     EP      Z   12  17 31        94

         H  M   S        EPICENTRE    DEPTH  MAG
JUL 07  12 36 14.1     11.9N 126.2E    33KM  5.4  PHILIPPINES
                              H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF     EP      Z   12  46 11.5      59
        MSZ     P       Z   12  47 10.3      68 -0.63                        6.5
        KRP     P       ZNE 12  47 11        65
        COB     P       Z   12  47 12        69
        MNW     P       Z   12  47 14        68
        MJZ     EP      ZNE 12  47 16.3U     69 -0.93                        6.2
        MNG     P       Z   12  47 20        69
        SBA     EP      ZNE 12  49 25        92

JUL 07  AFI     P       Z   17  32 19

         H  M   S        EPICENTRE    DEPTH  MAG
JUL 07  19 09 57.8      8.2S 115.6E    20KM  5.5  E. JAVA
                              H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ     P       Z   19  19 51.9U     58 -1.11                        6.1
        MNW     P       Z   19  19 53        58
        MJZ     P       ZNE 19  20 01  U     59 -1.29                        5.9
        COB     P       Z   19  20 18.8      60
        KRP     P       Z   19  20 15.6      61
        MNG     P       Z   19  20 18.6      62
        SBA     EP      ZNE 19  21 30.5      74

         H  M   S        EPICENTRE    DEPTH  MAG
JUL 08  00 47 02.7      7.3N 126.7E   107KM  4.8  MINDANAO
                              H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ     EP      Z   00  57 30        64
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                E          Z          37
          MJZ   (P)        7   00 57 42          65

JUL 08    RAO   P          Z   02 53 05.4
                S          Z       55.0

           H  M  S         EPICENTRE     DEPTH  MAG
JUL 08    03 46 00.7       1.7N 126.6E   33KM   5.2  MOLUCCA PASSAGE
                                H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
          MNG   P          Z   03 56 12          61

JUL 08    RAO   P          Z   04 54 51.5
                S          Z       55 12.0

           H  M  S         EPICENTRE     DEPTH  MAG
JUL 08    06 19 44.9       4.1S 130.9E   33KM         BANDA SEA
                                H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
          MJZ   EP         ZN  06 28 57          53
          MNG   EP         Z   06 29 04          54
          SBA   EP         ZNE 06 31 30.5        76

           H  M  S         EPICENTRE     DEPTH  MAG
JUL 08    06 49 22.8       36.3N  71.4E  121KM  5.6  N. AFGHANISTAN
                                H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
          SBA   EPKP       ZNE 07 08 08.2        126

           H  M  S         EPICENTRE     DEPTH  MAG
JUL 08    13 08 10.3       5.9S 148.6E   105KM  5.0  NEW BRITAIN
                                H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
          NDF   EP         Z   13 14 24          31
                E          Z       42
          KRP   P          ZNE 13 15 38.5        40
          COB   P          Z   13 15 46.2        41 -0.69                        6.1
          MNG   IP         Z   13 15 53.1U       42 -1.01                        5.8
          GNZ   P          ZNE 13 15 54  U       42 -0.33                        6.4
          MSZ   P          Z   13 15 54          42
          SBA   EP         ZNE 13 19 28          73

JUL 08    AFI   P          Z   14 28 53
                S          ZNE    29 19

JUL 08    MSZ   P          Z   15 10 02.2
          KRP   P          ZNE 15 10 06
          MJZ   P          ZNE 15 10 08
          MNG   P          Z   15 10 13
          GNZ   P          ZNE 15 10 19

           H  M  S         EPICENTRE     DEPTH  MAG
JUL 08    15 38 43.4       2.0N 126.4E   33KM   5.3  MOLUCCAS
                                H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
          MSZ   P          Z   15 48 46.7        59
          KRP   P          Z   15 48 50          60
          MJZ   P          ZNE 15 48 50          60
          MNG   P          Z   15 48 56          62
          SBA   EP         ZNE 15 51 04.5        83

JUL 09    RAO   P          Z   11 05 05.5
                S          Z       25.0

           H  M  S         EPICENTRE     DEPTH  MAG
JUL 09    11 08 23.7       20.2S 176.3W  278KM  4.6  FIJI REGION
                                H  M  S   DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
          NDF   EP         Z   11 09 58           6
                E*PP       Z       10 12
          AFI   P          Z   11 10 08           8
                S          ZNE     11 20
          RAO   EP         Z   11 10 28           9
                ES         Z       12 08
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        WTZ   P       Z   11 12 21        19
        GNZ   P       ZNE 11 12 26        19
              ES      ZNE    15 44
        KRP   P       Z   11 12 26.7      19
        MNG   P       Z   11 12 48.6      22
              S       Z      16 33
        COB   P       Z   11 13 04        23
        SBA   EP      ZNE 11 17 53        58

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 09  13 54 35.3   53.1N 154.4E 390KM  5.2  SEA OF OKHOTSK
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
        SBA   EPP     ZNE 14 15 45.6    131

JUL 09  AFI   P       Z   18 03 08
              S       ZNE    27
              T       ZNE    05 02

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 10  06 30 02.9   22.8S 176.2W  33KM  5.1  S. OF FIJI
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
        RAO   EP      Z   06 31 41.0       7
              S       Z      32 53.0
        NDF   IP      Z   06 32 07.9J      8
        AFI   P       Z   06 32 23        10
              S       ZNE    33 59
        RAR   EP      ZNE 06 33 35.5      15
              ET      ZNE    48
        GNZ   EP      Z   06 33 58        17
              E       NE     36 40
              S       ZN     37 00
        KRP   P       Z   06 33 58        17
        MNG   P       Z   06 34 18.4      19
              S       Z      37 36
        MJZ   EP      Z   06 35 13        24
        MSZ   EP      Z   06 35 30        25
        SBA   EP      ZNE 06 39 38        56

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 10  08 19 45.9   30.8N 137.5E 461KM  4.6  S. OF HONSHU
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   08 30 52.4       77
        COB   EP      Z   08 30 52         79
        MNG   P       Z   08 31 03.2       79
        MSZ   P       Z   08 31 08.3       80
        MJZ   P       Z   08 31 08         80

JUL 10  AFI   IP      Z   10 54 39.5J          0.62
              S       ZNE    55 20
        GNZ   P       ZNE 10 58 36.1
        KRP   P       ZNE 10 58 37.0
        MNG   P       Z   10 58 58
        COB   P       Z   10 59 07

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 10  14 16 59.6    5.2N 126.3E  50KM       MINDANAO
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   14 27 24.3      62 -1.27                5.9
        MJZ   P       Z   14 27 30        63 -1.56                5.6

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 10  19 33 49.5    6.3S 130.4E 128KM  4.7  BANDA SEA
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
        MNG   EP      Z   19 43 25        53

JUL 10  RAO   EP      Z   23 45 27.0
              S       Z      46 03.6
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          H  M  S        EPICENTRE    DEPTH  MAG
JUL 11  05 05 00.2     10.7N 141.3E   31KM  5.1  W. CAROLINE IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P          Z    05 14 53        58
        GNZ    P          ZNE  05 15 05        60
        MNG    P          Z    05 15 05.5U     60 =1.02                        6.2

          H  M  S        EPICENTRE    DEPTH  MAG
JUL 11  05 54 44.1     36.4N  70.7E  206KM  5.4  HINDU KUSH
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP        ZNE  06 13 22        127

JUL 11  WTZ    P          Z    06 37 31
        GNZ   ES          NE   06 40 01
        KRP    P          ZNE  06 37 32
        MNG    P          Z    06 37 55.8
              ES          Z       40 41
        COB    P          Z    06 38 09.8

JUL 11  RAO    P          Z    08 33 23.8
               S          Z       34 05.5
        WTZ    P          Z    08 33 53
        GNZ    P          ZNE  08 33 55
               S          ZNE     35 05
        KRP   IP          ZNE  08 34 04.7D         =1.05
        MNG    P          Z    08 34 29.7
              ES          Z       36 05
        SBA   EP          ZNE  08 40 46
              EPCP        ZNE     42 23

JUL 11  RAO    P          Z    10 10 01.4
               S          Z       37.7
        WTZ   EP          Z    10 12 01
        GNZ    P?         Z    10 12 18
               S          ZNE     13 18
        MNG    S          Z    10 14 09
        COB   ES          Z    10 14 40

JUL 11  AFI    P          Z    12 52 16
               S          ZNE     48
               T          ZNE     54 40

JUL 11  AFI    P          Z    15 22 04
               S          ZNE     40
               T          ZNE     24 17

          H  M  S        EPICENTRE    DEPTH  MAG
JUL 11  15 46 12.0      6.0S 153.0E   50KM  5.5  NEW BRITAIN
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP          Z    15 53 26        38
              E           Z       54 14
              (PP)        Z       55 42.8
        MJZ   EP          Z    15 53 50        41
              (PP)        Z       55 51.7
        MSZ    P          Z    15 53 51.6      41 =1.16                        5.6
        SBA   EP          ZNE  15 57 34        72

JUL 12  AFI   EP          ZNE  10 54 41
               S          ZNE     55 14
        WTZ    P          Z    10 58 56
        GNZ    P          ZNE  10 59 02
        KRP    P          ZN   10 59 03
        MNG   EP          Z    10 59 23
        COB    P          Z    10 59 38

JUL 12  AFI    P          Z    16 42 48
               S          ZNE     43 09
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		H	M	S	EPICENTRE	DEPTH	MAG									
JUL 12		20	05	23.7	16.8S 179.1W	509KM	4.6	FIJI REGION								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		IP		Z	20	06	40.1D		3							
	AFI		P		Z	20	07	10		8							
			S		ZNE		08	35									
	KRP		P		Z	20	09	38		22							
	COB		P		Z	20	10	08		25							
	MSZ		EP		Z	20	10	52		30							
	SBA		EP		ZNE	20	14	51		61							

		H	M	S	EPICENTRE	DEPTH	MAG									
JUL 13		01	59	29.4	28.3S 63.1E	33KM	5.3	INDIAN OCEAN								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA		IP		ZNE	02	10	11	D	65	-1.11						6.1
			ES		ZNE		19	09									
	MSZ		P		Z	02	11	37		80							
	MJZ		P		ZNE	02	11	49.6		82							
	MNG		P		Z	02	12	13		87							
JUL 13	AFI		P		Z	07	17	31									
			S		ZNE		18	06									
JUL 13	RAO		IP		Z	10	43	32.9									

		H	M	S	EPICENTRE	DEPTH	MAG									
JUL 13		15	09	28.7	3.8N 124.6E	346KM	5.0	CELEBES SEA								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		P		Z	15	19	15		62							
	MJZ		P		Z	15	19	21		63							

		H	M	S	EPICENTRE	DEPTH	MAG									
JUL 14		02	02	17.6	10.5S 113.9E	33KM	5.4	S. OF JAVA								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ		P		NE	02	12	15		59							
	SBA		EP		ZNE	02	13	40		72							

		H	M	S	EPICENTRE	DEPTH	MAG									
JUL 14		02	53	29.5	55.7S 47.9W	33KM	5.0	SCOTIA SEA								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA		EP		ZNE	03	01	42.5		45							
	MNG		EP		Z	03	05	22		77							
	COB		P		Z	03	05	22.6		78							
	KRP		P		Z	03	05	35		80							

		H	M	S	EPICENTRE	DEPTH	MAG									
JUL 14		20	19	50.8	3.7S 127.9E	125KM	5.5	CERAM								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB		P		Z	20	29	08.8		55							

		H	M	S	EPICENTRE	DEPTH	MAG									
JUL 14		22	00	09.1	16.1S 173.7W	80KM	5.0	TONGA								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P		Z	22	02	19.9		9							
			E		Z			23.9									
	RAR		EP		ZNE	22	03	22.5		14							
			ES		ZNE		05	49									
			EL		ZNE		06	40									
			ET		ZNE		14										
	GNZ		P		ZE	22	05	15		24							
	KRP		P		ZNE	22	05	15.7		24							
	COB		P		Z	22	05	49		28							
	MSZ		EP		Z	22	06	34		32							
	SBA		EP		ZNE	22	10	27		63							
JUL 15	AFI		IP		Z	13	36	11.5J			-0.98						

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JUL 15  AFI    P       Z   22 13 08
               S       ZNE     28

         H  M  S       EPICENTRE    DEPTH  MAG
JUL 16  00 51 10.8     9.9S 160.4E   23KM  5.2  SOLOMON IS
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP         ZNE 00 12 09       68

         H  M  S       EPICENTRE    DEPTH  MAG
JUL 16  00 29 16.6     20.9S 178.7W 600KM  5.4  FIJI REGION
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EIP        Z   00 30 51.9U     5
               E        Z      31 20
               E        Z         41
               S        Z      32 09
        RAO    IP       Z   00 31 19.7      8
               S        Z      32 53.6
        AFI    P        Z   00 31 30        10
               S        ZNE    33 15
               T        ZNE    38 10
        CRZ    P        Z   00 32 04.5      15
               EIP      ZNE    32 32.2U        0.6I                      6.9
        GBZ    P        Z   00 32 36        16
        ONE    P        E   00 32 39  U     16
               ES       E      35 24
        ECZ    P        Z   00 32 45.9      17
        AUC    P        Z   00 32 46        17
        GNZ    P        ZNE 00 32 50        18
               I        ZNE    53.5
               ES       ZNE    35 43
               SCP      ZNE    39 36
        KRP    EIP      ZNE 00 32 51.0D     18  0.2I                      6.6
               S        ZNE    35 53
               SCP      Z      39 33
        CNZ    P        Z   00 32 59.5      19
               S        Z      36 14
               SCP      Z      39 36.0
        TRZ    P        Z   00 33 01        19
               SCP      Z      39 38
        TNZ    P        Z   00 33 05.7      19
        WEL    IP       ZNE 00 33 19.7DSE   21
               ES       ZNE    36 45
               ESCP     Z      39 42
        COB    P        Z   00 33 22        21
               I        Z         23.6
        KAI    EP       Z   00 33 39.5      23
        GPZ    P        N   00 33 45        24
        MJZ    P        ZNE 00 33 52.8      25
               ES       ZNE    37 31
               SCP      ZNE    39 52
        MSZ    P        Z   00 34 07.3      26
        ROX    P        Z   00 34 09.0      26
               SCP      Z      39 58
        MNW    P        Z   00 34 15.6      27
               I        Z         17.0D
        WPZ    P        Z   00 34 19.0U     28
               SCP      Z      40 01
        SBA    IP       ZNE 00 38 11.5J     57 -0.20                      6.1
               E*PP     ZNE    40 11
               ESCP     ZNE    41 59

JUL 16  MSZ    P        Z   01 52 02.7

         H  M  S       EPICENTRE    DEPTH  MAG
JUL 16  02 46 50.7     38.3N  43.3E  40KM  4.9  TURKEY
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    PKP      Z   03 06 18      143
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          H  M   S        EPICENTRE     DEPTH   MAG
JUL 16   02 53  15.0      3.7N 124.9E   349KM   5.0  CELEBES SEA
                                H  M   S   DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
         MSZ     P          Z    03 03 00.8       62
         MJZ     P          ZNE  03 03 07.3       63

          H  M   S        EPICENTRE     DEPTH   MAG
JUL 16   04 21  40.3      34.9S 179.9E   51KM   5.6  S. OF KERMADEC IS
                                H  M   S   DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
         RAO     P          Z    04 23 02.6       6
                 S          Z       24 15.6
         NDF     EP         Z    04 25 44.8       17
                 E          Z       26 02.5
         AFI     P          Z    04 26 32         22 -0.25                        6.0
                 S          ZNE     30 38
                 L          ZNE     32
                 T          ZNE     48 10
         RAR     EP         ZNE  04 26 40         22
                 ES         ZNE     30 42
         SBA     IP         ZNE  04 29 41    U    43 -0.81                        6.0
                 EPCP       ZNE     31 27
                 EPP        ZNE         42.5

JUL 16   AFI     P          Z    05 55 07
                 S          Z       38

          H  M   S        EPICENTRE     DEPTH   MAG
JUL 16   17  09  05.6      3.0S 101.0E   28KM   5.6  S. SUMATRA
                                H  M   S   DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
         MSZ     P          Z    17 20 26.8       72
         MNW     P          Z    17 20 27         72
         MJZ     P          ZNE  17 20 36         73
         COB     P          Z    17 20 44         74
         KRP     P          Z    17 20 54         76
         NDF     EP         Z    17 21 07         76
         SBA     EP         ZNE  17 21 25         82
                 EPCP       ZNE     35
                 ELR        ZNE     48 00
         AFI     P          Z    17 21 51         87
                 S          NE      32 32
                 LQ         N       48
                 LR         ZE      53

          H  M   S        EPICENTRE     DEPTH   MAG
JUL 16   18  09  00.9      21.2S 175.7W   33KM   5.3  TONGA
                                H  M   S   DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
         AFI     P          Z    18 10 56          8
                 S          ZNE     13 04
         RAR     ES         ZNE  18 15 17         15
                 EL         ZNE     40
         SBA     EP         ZNE  18 18 47         57

JUL 16   AFI     (P)        Z    21 32 20

JUL 16   RAO     P          Z    23 07 56
                 (S)        Z       08 11

JUL 17   AFI     P          Z    00 57 54
                 S          ZNE     58 30

JUL 17   AFI     IP         Z    01 36 16.50
                 S          ZNE     37 18

JUL 17   RAO     P          Z    01 41 15.6
                 S          Z       35
         GNZ     ES         NE   01 45 16
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JUL 17  RAO    P        Z    05 22 57.7
               S        Z       23 19
        GNZ    S        ZNE  05 26 59
        MNG  E(P)       Z    05 25 43
             ES         Z       27 55

JUL 17  AFI    P        Z    08 11 30.5
               S        ZNE     12 47

         H  M  S         EPICENTRE    DEPTH  MAG
JUL 17  09 56 01.9      18.0S 167.9E   26KM          NEW HEBRIDES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P        Z    10 01 11         23
        COB    EP       Z    10 01 14         23

         H  M  S         EPICENTRE    DEPTH  MAG
JUL 18  02 15 23.6      24.3N 142.1E  557KM  4.8   VOLCANO IS
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        ZN   02 25 36         69
        COB    P        Z    02 25 44         71
        MNG    P        Z    02 25 47         72
        MSZ    IP       Z    02 25 53.6U      73 -0.87                        5.7
        MJZ    P        ZNE  02 25 54.2      73
        MNM    P        Z    02 25 58.4      74

         H  M  S         EPICENTRE    DEPTH  MAG
JUL 18  05 32 02.0       6.3S 128.3E  365KM  5.1   BANDA SEA
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    EP       Z    06 00 20         49
        MSZ    P        Z    06 00 34         51
        MNG    P        Z    06 00 52         54

         H  M  S         EPICENTRE    DEPTH  MAG
JUL 18  12 32 45.8      13.9N 144.7E  138KM  4.7   MARIANA IS
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        ZNE  12 42 33.1D     59
        COB    P        Z    12 42 42.5U     61 -1.03                        6.0
        MNG    P        Z    12 42 46.7      61 -1.34                        5.7
        MSZ    P        Z    12 42 52        62
        MJZ    P        ZNE  12 42 54        62
        SBA    EP       ZNE  12 45 43.5      92

JUL 18  AFI    P        Z    14 04 56
               S        ZNE     05 20

         H  M  S         EPICENTRE    DEPTH  MAG
JUL 18  21 05 00.8      14.4S  76.3W   13KM  5.1   PERU
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    EP       ZNE  21 17 20         81

JUL 19  RAO    IP       Z    02 13 09.6J
               ES       Z       58
        WTZ    EP       Z    02 15 48
               I        Z       52.7
               ES       Z       18 00
        GNZ    EP       Z    02 15 57
               E        ZNE     18 08
               IS       ZNE     12.0
        CNZ    P        Z    02 16 07
        AFI    P        Z    02 16 07
               S        ZNE     18 30
        MNG    P        Z    02 16 18.7
               S        Z       18 56
               (SCP)    Z       23 24.7
        WEL    S        ZNE  02 19 17
        COB    P        Z    02 16 34
        MJZ    P        ZNE  02 17 11
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        MSZ  EP        Z   02 17 24

JUL 19  AFI   P        Z   03 54 28
              S        ZNE     55 21

JUL 19  AFI   P        ZNE 07 08 13
              S        ZNE     09 57
        KRP   P        ZNE 07 09 36.8
        GNZ   P        Z   07 09 37.9
              ES       Z       13 24
        CNZ   P        Z   07 09 45.3
        MNG   P        Z   07 09 57
              SCP      Z       16 35
        COB   P        Z   07 10 08.6

JUL 19  AFI   EP       Z   08 21 37

          H  M   S       EPICENTRE    DEPTH  MAG
JUL 19   13 20 53.8    56.0S  27.6W   60KM  5.4  SOUTH SANDWICH IS
                              H  M   S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP       ZNE 13 29 13       46
        MSZ   P        Z   13 32 51.8      79
        COB   P        Z   13 33 04        82

JUL 19  AFI   P        Z   14 06 47
              S        ZNE     08 00
              T        ZNE     14 08

          H  M   S       EPICENTRE    DEPTH  MAG
JUL 20   19 27 40.3     3.4S 146.3E   33KM  5.1  BISMARCK SEA
                              H  M   S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   19 35 44.3       44
        MNG   P        Z   19 36 00         45

JUL 21  SBA   EP       ZNE 00 55 20
              ES       ZNE     58 14

JUL 21  KRP   P        Z   04 02 38.7
        MNG   P        Z   04 03 00.6
        COB   P        Z   04 03 17

JUL 21  RAO   EP       Z   04 38 03

          H  M   S       EPICENTRE    DEPTH  MAG
JUL 21   06 37 31.4    19.0S 169.1E  191KM  4.4  NEW HEBRIDES
                              H  M   S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        ZN  06 41 47.9       20
        GNZ   P        Z   06 42 13.5       21

          H  M   S       EPICENTRE    DEPTH  MAG
JUL 21   08 37 11.7    21.9S 176.0W  118KM  5.5  FIJI REGION
                              H  M   S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z   08 39 04.0         7
              ES       Z       40 28
              E        Z       41 24
        RAO   P        Z   08 39 01.5         8
              S        Z       40 20.4
        AFI   EIP      ZNE 08 39 11          9
              S        ZNE     40 40
              T        ZNE     44 54
        RAR   EP       ZNE 08 40 37         15
              ES       ZNE     43 21
              ET       ZNE     55
        GBZ   P        Z   08 40 53         16
        CRZ   P        ZNE 08 40 53.6       16
        ONE   P        E   08 40 57         16
        ECZ   P        Z   08 40 59         16
              S        Z       43 44
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        WTZ  EP       Z   08 41 00        17
             I        Z        04.6
             ES       Z      44 07
        GNZ   P       ZNE 08 41 06        17
              I       ZNE      10.3
              S       ZNE      44 06
        KRP   P       ZNE 08 41 09.3      18
              I       ZNE      10.2
              ES      NE       44 23
        TRZ   P       Z   08 41 20        19
              S       Z        44 38
        TNZ   P       Z   08 41 26.8      19
        MNG   P       Z   08 41 30.7      20
              I       Z        34
              S       Z      45 00
              SCP     Z      49 16.7
              SCS     Z      47 56
              E       Z      48 01
        WEL   P       ZNE 08 41 41.9      21
              S       ZNE    45 20
        COB   P       Z   08 41 46        21
              I       Z        50.6
              I       Z        54
              S       Z      45 34
        CIZ   EP      Z   08 42 00        22
              S       ZNE    45 58
        KAI   P       X   08 42 10.2      23
        MJZ   P       ZNE 08 42 22        25
              I       ZNE      24
              S       ZNE    46 39
        OMZ   P       Z   08 42 31.7      25
        MSZ   P       Z   08 42 36.7      26
              I       Z        38.5
        ROX   P       Z   08 42 38.4      26
        MNW   P       Z   08 42 46.6      27
        WPZ   P       Z   08 42 49        28
        SBA   EP      ZNE 08 46 47        57

              H  M  S       EPICENTRE    DEPTH  MAG
JUL 21        11 19 34.3    6.6S 155.0E  86KM   4.4  SOLOMON IS
                                H  M  S   DIR DIS LG.AMP  AZ TZ  AN TN  AE TE  MAG
        MNG   P       Z   11 26 48        39

JUL 21  AFI   P       Z   11 51 21
              S       ZNE      41

              H  M  S       EPICENTRE    DEPTH  MAG
JUL 21        12 27 27.5    5.6S 149.6E  210KM  5.1  NEW BRITAIN
                                H  M  S   DIR DIS LG.AMP  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   12 34 43.2      40
        COB   P       Z   12 34 52.3      41
        GNZ   P       ZNE 12 34 58        42
        MNG   EIP     Z   12 34 58.9U     42 -1.23                          5.2
        MSZ   P       Z   12 35 01        42
        MJZ   P       ZNE 12 35 03.7      42

              H  M  S       EPICENTRE    DEPTH  MAG
JUL 21        14 39 03.1    9.2N 126.0E  104KM  5.2  MINDANAO
                                H  M  S   DIR DIS LG.AMP  AZ TZ  AN TN  AE TE  MAG
        MSZ   EIP     Z   14 49 38  UE    66 -0.68                          6.3
                *PP   Z      50 04
        KRP   P       Z   14 49 38.7      66
        COB   P       Z   14 49 40        66
        MJZ   EIP     ZNE 14 49 43.5U     67 -0.79                          6.2
                *PP   ZN     50 09
        MNG   P       Z   14 49 47.9      67
        GNZ   P       ZNE 14 50 02        68
        SBA   EP      ZNE 14 51 51        90
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          H  M  S       EPICENTRE    DEPTH  MAG
JUL 21   16 08 12.1     22.6N 121.5E  21KM  4.8  TAIWAN
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ    P        Z   16 20 23.0       79
         MJZ    P        ZNE 16 20 25.8       80

JUL 21   WTZ    P?       Z   21 27 17
           ES             Z      28 24
         GNZ    P?       Z   21 27 18
                S        ZNE    28 27
         MNG    P        Z   21 27 44
                S        Z      29 25
         WEL    ES       NE  21 29 46
         COB    EP       Z   21 28 01
                ES       Z      29 58

JUL 21   MNG    P        Z   23 50 30
                S        Z      53 15

          H  M  S       EPICENTRE    DEPTH  MAG
JUL 22   03 16 56.1     60.7S  19.4W  33KM  5.2  S. ATLANTIC OCEAN
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA    EP       ZNE 03 24 42       42
                EPP      ZNE    26 28
                ES       ZNE    31 09
                ESS      ZNE    33 40
                ELR      ZNE    37 10
         MSZ    P        Z   03 28 36.8       75
         COB    P        Z   03 28 53.6       78
         MNG    P        Z   03 28 55.6       78
         KRP    P        ZNE 03 29 08       81
                E        Z      30 05

JUL 22   GNZ    S        ZNE 03 33 05
         MNG    P        Z   03 31 46.6
                S        Z      33 55

          H  M  S       EPICENTRE    DEPTH  MAG
JUL 22   06 03 01.0      6.2S 149.9E  52KM  4.9  NEW BRITAIN
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         GNZ    P        Z   06 10 44       41

          H  M  S       EPICENTRE    DEPTH  MAG
JUL 22   06 03 13.9     12.7S 166.0E  44KM  5.0  SANTA CRUZ IS
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF    EP       Z   06 06 11       12
         AFI    P        Z   06 08 04       22
                E        Z      11 52
                S        ZNE    14 40
                LR       ZNE    22
         MNG    EP       Z   06 09 13       29
         SBA    EP       ZNE 06 13 52       65

JUL 22   AFI    P        Z   08 07 58
                S        ZNE    08 18

JUL 22   WTZ    P        Z   14 00 13.7
                ES       Z      01 30
         GNZ    P        ZNE 14 00 17.3
                S        ZNE    01 29
         MNG    P        Z   14 00 51
                ES       Z      02 27

JUL 22   RAO    IP       Z   15 23 55.9D
                S        Z      24 08.5
         WTZ    EP       Z   15 25 43
                ES       Z      27 21
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          GNZ    P       Z   15 25 52
                 S       ZNE    27 26
          MNG    P       Z   15 26 27.7
                 ES      Z      28 24

JUL 22    AFI    P       Z   18 07 43
                 S       ZNE    09 33
          GNZ    EP      Z   18 08 44
                 S       ZNE    11 20
          MNG    P       Z   18 09 07
                 PCP     Z      14 06

JUL 23    AFI    P       Z   03 41 51
                 S       ZNE    43 28
          KRP    P       Z   03 43 35
          WTZ    P       Z   03 43 43
          MNG    P       Z   03 43 51
                 I       Z      59.5
          GNZ    ES      NE  03 47 01
                 I       N      04

JUL 23    WTZ    P       Z   07 01 35
          GNZ    EP      Z   07 01 35
                 S       ZNE    04 04
          AFI    P       Z   07 01 36
                 S       ZNE    03 52
          KRP    P       Z   07 01 38.0
          MNG    P       Z   07 01 59
                 S       Z      04 40
          COB    P       Z   07 02 11

           H  M  S        EPICENTRE     DEPTH  MAG
JUL 23    09 51 19.6     15.7S 179.2W  479KM  4.6  FIJI REGION
                            H  M  S  DIR DIS LGM AZT  AZ TZ  AN TN  AE TE  MAG
          NDF    IP      Z   09 52 36.90      4
          AFI    P       Z   09 53 06         7
                 S       ZNE    54 32
          RAO    ES      Z   09 56 48        14
          CRZ    P       ZNE 09 55 22.8      20
          WTZ    P       Z   09 55 40.6      22
          KRP    P       ZNE 09 55 44.6      23
          GNZ    P       ZNE 09 55 45        23
                 PCP     Z   10 00 14
          MNG    P       Z   09 56 04.4      25
          WEL    P       ZNE 09 56 12.2      25
          COB    P       Z   09 56 14.4      26
          MJZ    P       ZNE 09 56 42.3      30
          MSZ    P       Z   09 56 56.80     31
          MNW    P       Z   09 57 06        32
          SBA    IP      ZNE 10 00 58        63

           H  M  S        EPICENTRE     DEPTH  MAG
JUL 23    10 23 40.2     21.7N 147.5E   52KM  4.9  MARIANA IS
                            H  M  S  DIR DIS LGM AZT  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   10 34 25        65
          MNG    P       Z   10 34 36        67
          COB    P       Z   10 34 39        67
          MJZ    EP      Z   10 34 52        69

JUL 23    RAO    P       Z   10 27 44.0
                 S       Z      59.5
          GNZ    S       ZNE 10 31 32

JUL 23    RAO    P       Z   16 10 55.6
                 S       Z      25.8
          GNZ    S       NE  16 15 06
          AFI    (P)     Z   16 13 13
                 S       ZNE    15 29
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		H	M	S	EPICENTRE		DEPTH	MAG									
JUL 23		16	25	57.9	55.9S	27.9W	107KM	5.3	SOUTH SANDWICH IS								
						H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA		IP		ZNE	16	34	13.7		46	=0.60							6.3
	MSZ		P		Z		16	37	50		79	=0.76						6.1
	MJZ		P		ZNE	16	37	52			79							
	COB		P		Z		16	38	04		82							
	KRP		P		Z		16	38	18.4	0	84	=0.18						6.8

		H	M	S	EPICENTRE		DEPTH	MAG									
JUL 23		19	13	09.0	50.1N	129.3W	33KM	5.9	VANCOUVER REGION								
						H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		EP		Z		19	24	43		74							
			ES		ZNE			34	18									
			SS		ZNE			38	36									
			LQ		N			43										
			LR		ZE			46										
	RAR		ESKS		ZNE		19	34	44		76							
			ESS		ZNE			39	36									
			ELQ		ZNE			44	20									
			ELR		ZNE			47	48									
	SBA		EPKP		ZNE		19	32	22		133							
			EPP		ZNE			34	56									
			EPKS		ZNE			35	55.5									
			ESS		ZNE			53	02									
			ESSS		ZNE			58	00									
			ELQ		ZNE		20	08	45									
			ELR		ZNE			14	20									

		H	M	S	EPICENTRE		DEPTH	MAG									
JUL 24		06	04	22.1	20.8S	179.1W	643KM	4.2	FIJI REGION								
						H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		IP		Z		06	05	54.2	0	4							
	AFI		P		Z		06	06	31		10							
			S		ZNE			08	12									
	KRP		P		Z		06	07	54.0		18							
	MNG		P		Z		06	08	15		20							
	COB		EP		Z		06	08	26		21							
JUL 24	AFI		P		Z		15	21	43									
			S		ZNE			22	03									
JUL 24	AFI		IP		Z		21	16	53	U								
			S		ZNE			17	33									
JUL 24	AFI		(P)		Z		21	28	24									

		H	M	S	EPICENTRE		DEPTH	MAG									
JUL 25		04	09	04.6	14.9S	179.4E	508KM	3.6	FIJI REGION								
						H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P		Z		04	10	47		9							
			S		ZNE			11	30									
			T		ZNE			13	42									
	RAO		P		Z		04	09	58.2		14							
	KRP		P		ZNE		04	11	28.6		23							
	GNZ		ES		E		04	13	56		24							
	CNZ		EP		Z		04	11	38		24							
			ES		Z			14	18									
	MNG		P		Z		04	11	49		25							
			S		Z			14	32									
	MJZ		EP		Z		04	12	40		30							
	MSZ		P		Z		04	12	54		31							
JUL 25	AFI		P		Z		07	35	40									
			S		ZNE			36	12									

	H	M	S	EPICENTRE	DEPTH	MAG	
JUL 25	08	29	38,7	27,2S 176,5W	62KM	5,1	KERMADEC REGION

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	IP	Z	08	30	14,5D			2							
	S	Z			42										
NDF	EP	Z	08	32	18			11							
CRZ	P	ZNE	08	32	33			12							
AFI	P	Z	08	32	43			14							
	S	ZNE		35	08										
CNZ	EP	Z	08	32	45			14							
	ES	Z		35	21										
MNG	P	Z	08	32	58			15							
	S	Z		35	33										
RAR	EP	ZNE	08	33	16,5			16							
	ET	ZNE		49											
WEL	P	Z	08	33	18,6			16							
	S	ZNE		35	55										
MSZ	P	Z	08	34	20			21							
SBA	EP	ZNE	08	38	40			51							

	H	M	S	EPICENTRE	DEPTH	MAG	
JUL 25	08	41	07,8	27,2S 176,7W	60KM	4,7	KERMADEC REGION

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	P	Z	08	41	44,2			2							
	ES	Z		42	13										
NDF	EP?	Z	08	43	51			11							
AFI	P	Z	08	44	13			14							
	S	ZNE		45	43										
	T	ZNE		57	35										
MNG	EP	Z	08	44	28			15							
	S	Z		47	05										
WEL	S	ZNE	08	47	25			16							
MJZ	ES	NE	08	48	03			20							
MSZ	EP	Z	08	45	54			21							
SBA	EP	ZNE	08	50	10			51							

	H	M	S	EPICENTRE	DEPTH	MAG	
JUL 25	09	20	28,3	21,5S 176,4W	180KM	5,4	FIJI REGION

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
NDF	EP?	Z	09	22	12,3			7							
	I	Z			14,2D										
	E	Z			42										
	ES	Z		23	33,5										
RAO	EP	Z	09	22	23			8							
	S	Z		23	48,6										
AFI	P	Z	09	22	26			9							
	T	ZNE		27	09										
	T(MAX)	ZNE		28	12										
RAR	EP	ZNE	09	23	58			15							
	ES	ZNE		26	48										
	ET	ZNE		34											
CRZ	P	ZNE	09	24	07			16							
GBZ	P	Z	09	24	08,7			16							
ONE	P	E	09	24	12			16							
GNZ	P	ZNE	09	24	24			18							
	S	ZNE		27	27										
KRP	P	ZNE	09	24	25,2US		18	=0,49							5,8
	(*PP)	Z			45										
	S	ZNE		27	41										
CNZ	P	Z	09	24	35,7U		19								
	S	Z		27	53										
	SCP	Z		32	11										
TNZ	P	Z	09	24	42,4		19								
MNG	P	Z	09	24	46		20								
	S	Z		28	21										
	SCP	Z		32	21										
	ESCS	Z		36	04										

	WEL	P	ZNE	09	24	56		21													
		ES	ZNE		28	38															
		SCP	Z		32	19															
	MJZ	P	ZNE	09	25	36.6		25													
		ES	NE		29	49															
		SCP	Z		32	29.5															
		SCS	N		36	16															
	OMZ	P	Z	09	25	46		26													
	MSZ	P	Z	09	25	49.6		26													
	ROX	EP	Z	09	25	54		27													
	WPZ	P	Z	09	26	02		29													
	SBA	EP	ZNE	09	29	59		57													
		ES	ZNE		37	47															
		ESCS	ZNE		39	37															
JUL 25	KRP	P	Z	09	43	03															
		E	Z			39															
	NDF	EP	Z	09	44	43.5															
		E	Z		45	42															
		EL	Z		46	53															
JUL 25	KRP	P	Z	09	48	03.3															
	MNG	P	Z	09	48	24															
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 25	13	22	13.9	7.1S		147.9E		77KM		NEW GUINEA											
				H	M	S	DIR	DIS	LG	AZ	T	AZ	TZ	AN	TN	AE	TE	MAG			
	MNG	P	Z	13	30	02.7		41													
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 26	07	13	30.8	10.6S		114.0E		50KM	5.2	E. JAVA											
				H	M	S	DIR	DIS	LG	AZ	T	AZ	TZ	AN	TN	AE	TE	MAG			
	MJZ	P	ZNE	07	23	26		59													
		PP	ZNE		25	37															
	COB	P	Z	07	23	35.6		60													
		PP	Z		25	45															
	KRP	P	Z	07	23	47		61													
		PP	Z		25	55															
	MNG	P	Z	07	23	46		62													
		PP	Z		25	55															
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 26	08	43	27.6	11.0S		113.8E		33KM		S. OF JAVA											
				H	M	S	DIR	DIS	LG	AZ	T	AZ	TZ	AN	TN	AE	TE	MAG			
	MJZ	P	Z	08	53	27		59													
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 26	13	37	13.5	23.6S		179.9E		552KM	3.9	S. OF FIJI											
				H	M	S	DIR	DIS	LG	AZ	T	AZ	TZ	AN	TN	AE	TE	MAG			
	RAO	EP	Z	13	38	53.5		6													
		S	Z		40	07															
	NDF	P	Z	13	38	58.20		6													
	AFI	P	Z	13	39	53		12													
		S	ZNE		42	05															
	CRZ	P	ZNE	13	39	59		12													
	KRP	P	ZNE	13	40	19.8		15													
		I	Z			22.90															
	GNZ	P	Z	13	40	22		15													
		I	Z			25.0															
		S	ZNE		43	58															
	CNZ	P	Z	13	40	31		16													
		S	Z		43	16															
	TNZ	P	Z	13	40	36.8		16													
	MNG	P	Z	13	40	41		17													
		I	Z			43.8															
		S	Z		43	36															
	WEL	P	Z	13	40	51		18													
		S	Z		43	49															

	COB	P		Z	13	40	55.0				18										
		S		Z		43	54														
	MJZ	P		ZNE	13	41	25				22										
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 26	13	40	47.9	10.9S	113.9E			32KM		S. OF JAVA											
				H	M	S		DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	MJZ	P		Z	13	50	48.3		59												
	MNG	EP		Z	13	51	07		61												
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 26	16	11	13.1	5.6S	153.1E			35KM		NEW IRELAND											
				H	M	S		DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	KRP	P		Z	16	18	31		38												
	MNG	P		Z	16	18	47		40												
	MSZ	P		Z	16	19	00		41												
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 27	00	20	54.6	50.0N	159.1E			33KM	5.1	KURIL IS											
				H	M	S		DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	MNG	P		Z	00	34	02		91												
JUL 27	AFI	P		Z	13	15	39														
		S		ZNE		16	04														
JUL 27	AFI	P		Z	14	12	26														
		S		ZNE			47														
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 27	16	41	30.2	25.4N	130.5E			33KM	5.1	RYUKYU IS											
				H	M	S		DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	KRP	P		Z	16	53	15		76												
	MSZ	EP		Z	16	53	29		78												
	MNG	EP		Z	16	53	34		78												
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 27	18	27	49.0	20.9S	178.1W			496KM	3.6	FIJI REGION											
				H	M	S		DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	NDF	IP		Z	18	29	19.30		5												
	GNZ	EP		Z	18	31	30		18												
		S		ZNE		34	27														
	KRP	P		Z	18	31	37		18												
	MNG	ES		Z	18	35	11		20												
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 27	20	11	57.0	15.5S	167.2E			113KM		NEW HEBRIDES											
				H	M	S		DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	NDF	P		Z	20	14	22.1		10												
		ePP		Z			28.9														
	KRP	P		ZNE	20	16	57		24												
	CNZ	EIP		Z	20	17	09	U	25												
	MNG	P		Z	20	17	19.0		26												
		ES		Z		21	42														
	SBA	EP		ZNE	20	22	08.5		62												
JUL 28	AFI	IP		Z	01	36	59.0U														
		S		ZNE		37	28														
JUL 28	RAO	P		Z	03	35	10.5														
		S		Z		36	03														
	H	M	S	EPICENTRE				DEPTH	MAG												
JUL 28	07	03	10.3	24.2N	122.5E			65KM	5.1	TAIWAN											
				H	M	S		DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	KRP	EP		Z	07	15	17		79												
	CNZ	P		Z	07	15	19.6		80												
	MNG	EP		Z	07	15	20		81												
	GNZ	EP		Z	07	15	28		81												

	H M S	EPICENTRE	DEPTH	MAG								
JUL 28	08 25 52	36.0S 102.9W	33KM	5.0	S. PACIFIC OCEAN							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 08 35 27				55						
	ELR	ZNE 52 00										
	MNG P	Z 08 36 13				62						
	E	Z 18.6										
	CNZ EP	Z 08 36 22				63						
	KRP P	Z 08 36 25				63						
	MJZ P	ZE 08 36 31				64						
	MSZ EP	Z 08 36 39				65						
	H M S	EPICENTRE	DEPTH	MAG								
JUL 28	08 49 03.1	52.6N 173.2E	46KM	5.3	ALEUTIAN IS							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 09 02 01				90						
	MNG EP	Z 09 02 11				93						
JUL 28	AFI IP	Z 10 02 05.0J										
	S	ZNE 28										
	QNZ P	Z 10 06 50										
	KRP P	Z 10 06 54										
	MNG P	Z 10 07 15										
JUL 28	AFI (P)	ZNE 20 44 10										
	S	ZNE 45 14										
	CBZ (P)	Z 20 48 44										
	H M S	EPICENTRE	DEPTH	MAG								
JUL 29	05 54 22.7	0.1N 123.5E	161KM	5.8	SULAWESI							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF EP	Z 05 13 49				56						
	MSZ IP	Z 05 14 11.0D				59						
	MJZ P	ZNE 05 14 18.2				61						
	E	Z 52.										
	*PP	ZE 56.6										
	KRP P	Z 05 14 22.0				61						
	*PP	Z 59										
	MNG P	Z 05 14 27.6J				62	-0.62					6.3
	*PP	Z 15 03.5										
	*SP	Z 18										
	AFI P	ZNE 05 14 52				66						
	SBA IP	ZNE 05 16 22.8				81	-0.71					6.1
	ES	ZNE 26 24										
	EPS	ZNE 27 19										
	ELR	ZNE 43 10										
	H M S	EPICENTRE	DEPTH	MAG								
JUL 29	10 59 35.1	10.7S 114.0E	33KM	5.1	E. JAVA							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 11 09 20.7				57						
	PP	Z 10 56										
	MJZ P	ZNE 11 09 33				59						
	PP	ZNE 11 08										
	KRP EP	Z 11 09 51				61						
	PP	Z 11 26										
	MNG EP	Z 11 09 52				62						
	PP	Z 11 27										
JUL 29	AFI P	Z 11 34 47										
	S	ZNE 36 00										
	T	ZNE 41 30										
	H M S	EPICENTRE	DEPTH	MAG								
JUL 29	17 14 49.8	5.9S 104.8E	55KM	5.3	SOUTHERN SUMATRA							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 17 25 35				67						

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        NOF  EP      Z   17 27 02        72
             I       Z      28 05.0
             I       Z         09.1

JUL 29  AFI  IP      Z   17 42 55.0J
             S       ZNE    43 20

JUL 29  AFI  P       Z   19 39 45
             S       ZNE    41 20
        GNZ  S       NE  19 42 59
        MNG  P       Z   19 41 53

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 29  22 34 33.3    3.3S 146.5E   33KM  4.8  BISMARCK SEA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  P       Z   22 42 03        43
             S       ZNE    49 08
             LQ      N      52
             LR      ZE     55
        KRP  P       Z   22 42 36        44
        MNG  P       Z   22 42 51        45
        MSZ  EP      Z   22 42 52        45
        MJZ  P       Z   22 42 58        46

JUL 30  MNG  P       Z   03 14 33.7
             S       Z      16 06
        GNZ  S       ZNE 03 15 05
        WEL  S       NE  03 16 24.7
        COB  S       Z   03 16 44

JUL 30  GNZ  P       ZNE 03 31 52
             S       ZNE    33 05
        KRP  EP      Z   03 32 11
        MNG  P       Z   03 32 34
             S       Z      34 06
        WEL  S       NE  03 34 23
        COB  S       Z   03 34 45

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 30  04 58 35.9    5.6S 102.8E   46KM  5.3  S. SUMATRA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P       Z   05 09 26        68
             *PP     Z      36
        MJZ  P       Z   05 09 45        70
             *PP     Z      55
        MNG  P       Z   05 10 04        73
             (*PP)   Z      19

JUL 30  GNZ  P       ZNE 06 19 04
             S       ZNE    20 18
        KRP  EP      Z   06 19 28
        MNG  P       Z   06 19 40
             S       Z      21 20
        GNZ  (P)     Z   06 19 42
        COB  ES      Z   06 22 00

JUL 30  AFI  IP      Z   06 25 15.0J
             S       ZNE    30

JUL 30  CBZ  P       Z   06 44 50.7

JUL 30  RAO  IP      Z   09 31 27
             S       Z      40.6
        GNZ  S       ZNE 09 34 52
        MNG  P       Z   09 33 19

JUL 30  AFI  P       Z   10 46 32
             S       ZNE    56
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	H	M	S	EPICENTRE		DEPTH	MAG									
JUL 30	16	00	02.8	21.2N	121.3E	33KM	4.9	TAIWAN								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ		P	ZE	16	12	17		79									

	H	M	S	EPICENTRE		DEPTH	MAG									
JUL 30	16	28	36.2	18.0S	178.0W	525KM	4.3	FIJI REGION								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P	Z	16	30	01		4									
	AFI		P	Z	16	30	22		7									
			S	ZNE		31	46											
	KRP		P	Z	16	32	40		21									
	GNZ		P	ZNE	16	32	44		21									
	CNZ		P	Z	16	32	50		22									
	MNG		P	Z	16	33	01		23									
		ES		Z		37	16											
	COB		P	Z	16	33	11.6		24									

	H	M	S	EPICENTRE		DEPTH	MAG									
JUL 30	17	40	22.8	4.6S	152.3E	44KM	5.3	NEW BRITAIN								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	17	46	15		29									
	AFI	P		Z	17	47	31		37									
		S		ZNE		53	12											
		LQ		N		56												
		LR		ZE		59												
	KRP	P		ZNE	17	47	50		39									
		I		ZNE			55.2											
		PCP		Z		50	03											
	GNZ	P		ZNE	17	48	05.5		41									
		S		ZNE		54	23.2											
	MNG	P		Z	17	48	07.6		41									
		I		Z			11.7											
		PCP		Z		50	09											
	WEL	P		ZNE	17	48	13.0		42	-0.50		39	6					6.8
		S		NE		54	32											
		LQ		E		57												
		LR		ZE	18	00												
	MSZ	P		Z	17	48	15		42									
	MJZ	P		ZNE	17	48	15		42									
		PCP		ZNE		50	13											
	SBA	EP		ZNE	17	51	54		74									
		ES		ZNE	18	01												
		ESS		ZNE		06												
		ELR		ZNE		15												

	H	M	S	EPICENTRE		DEPTH	MAG									
JUL 30	20	13	56.1	4.6S	152.3E	16KM	5.5	NEW BRITAIN								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	IP		Z	20	19	49.7J		29									
	AFI	P		Z	20	21	05		37									
		S		ZNE		26	48											
		LQ		N		29												
		LR		ZE		33												
	KRP	P		ZNE	20	21	25.6		39									
		I		ZNE			28.9											
		E(PP)		Z		23	36											
	MNG	P		Z	20	21	41.6		41									
		I		Z			44.7											
	GNZ	P		ZNE	20	21	42.5		41									
		I		ZNE			45.0											
	WEL	P		Z	20	21	48		42									
		S		NE		28	04											
		LQ		NE		31												
		LR		ZNE		34												
	MSZ	P		Z	20	21	50.4		42									
	MJZ	P		ZNE	20	21	52.7		42									

	SBA	EP	ZNE	20	25	29																				
		ES	ZNE			35	16																			
		ESS	ZNE			39	50																			
		ELR	ZNE			48	30																			
JUL 30	KRP	P	ZNE	20	24	43.7																				
		E(PCP)	Z			26	57																			
	CNZ	P	Z		20	24	52.5																			
	MNG	P	Z		20	24	58																			
	GNZ	P	ZNE	20	24	59																				
JUL 30	KRP	P	Z		20	34	25.7																			
	CNZ	EP	Z		20	34	34																			
	MNG	P	Z		20	34	40.7																			
	MSZ	P	Z		20	34	49																			

	H	M	S	EPICENTRE		DEPTH	MAG																			
JUL 30	20	28	12.0	4.8S	152.3E	42KM		NEW BRITAIN																		
						H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG							
	KRP	P		Z		20	35	39												39						
	CNZ	P		Z		20	35	47.7												40						
	COB	P		Z		20	35	50												41						
	MNG	P		Z		20	35	54.7												41						
	MSZ	P		Z		20	36	03												42						

	H	M	S	EPICENTRE		DEPTH	MAG																			
JUL 30	21	45	14.1	56.8N	135.7W	25KM		6.5	S.E. ALASKA																	
						H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG							
	AFI	P		Z		21	57	08												77						
		S		ZNE		22	07	00																		
		SS		ZE			11	32																		
		LQ		NE			15																			
		LR		Z			19																			
	RAR	EP		ZNE	21	57	25													80						
		EPCP		ZNE			48																			
		ES		ZNE	22	07	34																			
		ET		ZNE	23	23																				
		ET(MAX)		ZNE			25	22																		
	NDF	EP		Z		21	57	49.5												84						
		E		Z			58	06																		
		E		Z				20.5																		
	WEL	PP		ZNE	22	04	10													106						
		SKS		NE			10	10																		
	MSZ	EPP		Z		22	04	36												112						
	ROX	E		NE		22	12	38												112						
	SBA	EPKP		ZNE	22	04	38													139						
		EPP		ZNE			07	30																		
		EPKS		ZNE			08	34																		
		ESS		ZNE			26	00																		
		ELQ		ZNE			43	00																		

	H	M	S	EPICENTRE		DEPTH	MAG																			
JUL 30	23	17	19.5	5.7S	130.5E	57KM		5.9	BANDA SEA																	
						H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG							
	NDF	P		Z		23	25	50.3D												47						
		E		Z			26	20																		
	MSZ	P		Z		23	26	15.6												51						
		*SP?		Z				44																		
		E		Z			27	04																		
	COB	P		Z		23	26	22												52						
		(*SP)		Z				50.5																		
	MJZ	P		ZNE	23	26	23.2													52						
		(*SP)		ZNE				52																		
	KRP	P		ZNE	23	26	25													52						
		(*SP)		ZE				53																		
	MNG	P		Z		23	26	31.6												53						
		(*SP)		Z			27	00																		
	SBA	EP		ZNE	23	28	54.3													75						

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JUL 31  AFI   P       Z   02 33 57
              S       ZNE    34 49

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 31  03 28 30.2   30.7N 141.6E   36KM  5.7  S. OF HONSHU
                        H  M  S  DIR DIS LGW A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       ZNE 03 40 12      75
        COB   P       Z   03 40 20.5     77
        MNG   P       Z   03 40 23.6     78
        MSZ   P       Z   03 40 31      79
        MJZ   P       ZNE 03 40 32.0    79 -1.03                      6.1
        SBA   EPP     ZNE 03 47 28.5   109

JUL 31  RAO   P       Z   07 11 31.7
              ES      Z       12 29

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 31  07 27 00.7   15.8S 167.2E   17KM  4.4  NEW HEBRIDES
                        H  M  S  DIR DIS LGW A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   07 29 32.20    10
        AFI   P       Z   07 31 40        20
        KRP   P       ZNE 07 32 10        23
        CNZ   P       Z   07 32 22        24
        MNG   P       Z   07 32 31.7      25
        COB   P       Z   07 32 32        26
        SBA   EP      ZNE 07 37 22        62

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 31  07 54 50.0   20.2S 178.7W  633KM  4.3  FIJI REGION
                        H  M  S  DIR DIS LGW A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   07 56 21.0       4
        AFI   P       Z   07 56 56        9
              S       ZNE    58 37
        CRZ   P       ZNE 07 58 09.7     16
        ONE   P       E   07 57 58        17
        GBZ   P       Z   07 58 14.8     17
        KRP   P       ZNE 07 58 28.6     18 -1.00                      5.3
        GNZ   P       ZNE 07 58 30       19
        CNZ   P       Z   07 58 37.3     20
        MNG   P       Z   07 58 49.3     21
              SCP     Z   08 05 12
        COB   P       Z   07 59 00        22
        MJZ   EP      Z   07 59 32        25
        MSZ   P       Z   07 59 44        27
        MNW   P       Z   07 59 52.4     28
        SBA   IP      ZNE 08 03 47.5     58

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 31  09 28 44.8    6.2S 144.5E   98KM  4.6  NEW GUINEA
                        H  M  S  DIR DIS LGW A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       ZE  09 36 38.0     42
        COB   P       Z   09 36 42        43
        CNZ   P       Z   09 36 45  D     43
              (PP)    Z       56
        MNG   P       Z   09 36 50        44
        SBA   EP      ZNE 09 40 09        73

         H  M  S      EPICENTRE    DEPTH  MAG
JUL 31  10 56 14.2   18.4S 168.9E  222KM  4.7  NEW HEBRIDES
                        H  M  S  DIR DIS LGW A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP      Z   10 58 11.6U      8
        KRP   P       ZNE 11 00 34.0     20
        GNZ   P       ZNE 11 00 46       22
        CNZ   P       Z   11 00 46       22 -0.82                      5.6
        COB   EP      Z   11 01 01        23
        MNG   IP      Z   11 00 58.9U     23
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JUL 31  AFI    P        Z   12 49 45
               S        ZNE    50 20
               T        ZNE    52 44
        WTZ  EP         Z   12 54 07
        KRP    P        Z   12 54 12
        MNG    P        Z   12 54 35.5

         H  M  S        EPICENTRE     DEPTH   MAG
JUL 31  14 34 06.9      14.6N 145.7E  111KM   5.1  MARIANA IS
                                H  M   S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP         Z   14 42 11.5      45
        AFI    P        ZNE 14 42 56        51
               (L)      ZNE    56
        KRP    P        ZNE 14 43 58        59
                *PP     Z      44 21
               E        ZNE    32
        COB    P        Z   14 44 08        61
                *PP     Z      30
               I        Z      38
        MNG    P        Z   14 44 12        61
                *PP     Z      32
        MSZ    P        Z   14 44 19        62
               E        Z      48
        MJZ    P        ZNE 14 44 20        63
        SBA  EP         ZNE 14 47 10.8      93

         H  M  S        EPICENTRE     DEPTH   MAG
JUL 31  15 56 08.5      30.7N 141.6E   33KM   5.4  S. OF HONSHU
                                H  M   S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP         Z   16 06 14        59
        AFI  EP         Z   16 06 32        63
               S        ZNE    15 16
               LQ       NE     22
               LR       Z      24
        KRP    P        ZNE 16 07 51        75
        COB    P        Z   16 08 00.4      77
        MNG    P        Z   16 08 03.4U     78
        MJZ    P        ZNE 16 08 10.6      79
        MSZ    P        Z   16 08 13.0      79
        SBA  EPP        ZNE 16 15 08.5     109

JUL 31  RAO    P        Z   17 07 44.8
               S        Z      08 19.5
        GNZ    S        NE  17 12 13
        MNG    P        Z   17 10 38
               ES       Z      13 09

         H  M  S        EPICENTRE     DEPTH   MAG
JUL 31  19 51 23.6      14.9S 167.0E  101KM   4.9  NEW HEBRIDES
                                H  M   S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P        Z   19 53 56.8      10
        ONE    P        E   19 56 14        22
        GBZ    P        Z   19 56 17.7      23
        KRP    P        ZNE 19 56 32.9D     24 -0.67                          5.7
        WTZ    P        Z   19 56 37.8      25
        GNZ    P        ZNE 19 56 45        26
        MNG    P        Z   19 56 53.6J     27
        COB    P        Z   19 56 54.7      27
        MJZ    P        ZNE 19 57 20.0      29
        MNW    P        Z   19 57 32.0      31
        SBA  EP         ZNE 20 01 42        63

AUG 01  MNG  E(P)       Z   02 54 51
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		H M S	EPICENTRE	DEPTH	MAG									
AUG 01		03 20 07.7	2.4N 126.6E	48KM	5.1	MOLUCCAS								
			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MJZ	P	Z 03 30 14.8		61	=1.09							6.1	
AUG 01	AFI	EP	Z 08 45 43											
		(S)	NE 47 36											
		H M S	EPICENTRE	DEPTH	MAG									
AUG 01		08 44 50.3	5.6S 147.3E	198KM	4.8	NEW GUINEA								
			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	ZNE 08 52 17.8		41	=0.82							5.6	
	CNZ	P	Z 08 52 25.4		42	=0.99							5.4	
	MNG	P	Z 08 52 31.7J		43	=1.06							5.5	
		(*PP)	Z 53 28.2											
	MJZ	P	ZE 08 52 35.3		43	=1.13							5.4	
	SBA	P	ZNE 08 56 00.4J		73	=1.39							5.4	
		H M S	EPICENTRE	DEPTH	MAG									
AUG 01		10 37 02.6	4.0S 102.9E	116KM	5.1	S. SUMATRA								
			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MJZ	P	Z 10 48 12.6		71	=1.00							5.9	
	COB	P	Z 10 48 18.6		73									
		(*PP)	Z 36.3											
	KRP	P	Z 10 48 32.2		74									
	CNZ	IP	Z 10 48 30.7D		74	=0.62							6.2	
		(*PP)	Z 47.2											
	NDF	P	Z 10 48 33		74									
	MNG	P	Z 10 48 30.3		75									
	SBA	P	ZNE 10 49 04.9J		81	=1.35							5.5	
		(*PP)	Z 22.5											
AUG 01	RAO	ES	Z 16 15 56											
	WTZ	P	Z 16 15 56											
		ES	Z 17 11											
	GNZ	S	ZNE 16 17 21											
	MNG	P	Z 16 16 27											
		S	Z 18 13.5											
	COB	ES	Z 16 18 43											
AUG 01	RAO	P	Z 17 30 22.5											
		S	Z 31 11											
	AFI	P	Z 17 32 12											
		S	ZNE 34 15											
		T	ZNE 45 30											
	WTZ	EP	Z 17 32 39											
	MNG	EP	Z 17 33 00											
		ES	Z 35 53											
	SBA	P	Z 17 38 33											
		H M S	EPICENTRE	DEPTH	MAG									
AUG 01		19 06 33.8	2.3N 127.4E	96KM	5.9	MOLUCCAS								
			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	NDF	P	Z 19 15 44.8		53									
		I	Z 48.2											
		E*PP	Z 16 18											
	KRP	P	ZNE 19 16 31.3J		60	=0.41							6.8	
		(*PP)	ZN 17 03.6											
	MJZ	IP	ZNE 19 16 32.6J		60	=0.48							6.7	
	CNZ	P	Z 19 16 34.8		60									
		EPKPPKP	Z 46 04											
	WEL	P	ZNE 19 16 38.5		61	=0.53							6.6	
		PP	Z 19 02											
		E	Z 21 38											
		S	ZNE 24 52											
		ESSS	ZNE 29 59											
		LQ	NE 33											

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          LR      ZNE      36
     MNG  P       Z    19 16 38.2U     61 -0.56                          6.6
          (*PP)   Z       17 07.3
     AFI  IP      Z    19 16 49.0U     62  0.16                          7.3
          S       ZNE      25 10
          SS      N        29 04
          LQ      NE       32
          LR      Z        37
     RAR  P       ZNE 19 18 05.5       75
          EL      ZNE      42
     SBA  IP      ZNE 19 18 50.1U     83 -0.28                          6.7
          I       Z        19 09.4
          (*SP)   Z           25.8
          S       ZNE      28 58                          2 16          6.0
          PS      ZNE      29 54
          ESS     ZNE      34 18
          ELQ     E        41
          LR      ZNE      45
          E       ZNE      37 13.6
          EPKPPKP ZN       45 12

AUG 01    SBA  (P)     ZNE 19 37 13.6

           H  M  S      EPICENTRE    DEPTH  MAG
AUG 01    21 06 39.1    3.3S 148.7E   33KM  4.8  BISMARCK SEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P       Z   21 14 37       42
          CNZ  P       Z   21 14 44       43 -1.01                        5.8
          COB  P       Z   21 14 45       43
          MNG  EP      Z   21 14 45.5     44
          SBA  P       ZNE 21 18 19.2     75
               S       N       28 09

           H  M  S      EPICENTRE    DEPTH  MAG
AUG 02    01 11 02.0    18.9S 173.3W  60KM  4.9  TONGA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI  P       ZNE 01 12 09        5
               S       ZNE     13 04
               T       ZNE     17 03
          NDF  P       Z   01 13 15.5       9
          RAR  P       ZNE 01 13 50.1      13
               ES      ZNE     16 06
               E       ZNE     27 18
          KRP  P       ZNE 01 15 46.5      21 -0.88                        5.4
               *PP     ZN      16 01.1
               ES      NE      19 49
          MNG  EP      Z   01 16 08.5      24
               ES      Z       20 28
          MJZ  EP      ZNE 01 16 59.5      28 -1.23                        5.3
          MNW  P       Z   01 17 22.5      31
          SBA  P       ZNE 01 21 04.4      60 -1.27                        6.0


AUG 02    AFI  EP      Z   02 40 41
               S       ZNE     41 23
               T       ZNE     44 20
          NDF  EP      Z   02 42 20.5
          WTZ  P       Z   02 44 47.5
          KRP  P       ZNE 02 44 53.0
          MNG  EP      Z   02 45 14

           H  M  S      EPICENTRE    DEPTH  MAG
AUG 02    05 58 50.8    17.5S 167.8E  26KM       NEW HEBRIDES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF  P       Z   06 01 09.5       9
          KRP  EP      Z   06 03 41        21
          CNZ  P       Z   06 03 57.3      23
          MNG  P       Z   06 04 05        24 -1.49                        4.9
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        SBA  EP       ZNE 06 09 01        60

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 02  06 06 00.7     6.0S 152.7E  33KM  4.8  NEW BRITAIN
                          H  M  S  DIR DIS  LGM A/T  AZ TZ  AN TN  AE TE  MAG
        MNG  EP       Z   06 13 38        40

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 02  06 54 30.8     4.6S 152.4E  44KM  5.0  NEW BRITAIN
                          H  M  S  DIR DIS  LGM A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   07 01 59.5      39
              PCP     Z      03 39
        CNZ   P       Z   07 02 07.8      40  =1.37                       5.4
              EPCP    Z      03 47.5
        MNG   P       Z   07 02 16.2      41  =1.49                       5.3
              EPCP    Z      03 54.5
        MSZ   P       Z   07 02 23.2      42
        SBA   EP      ZNE 07 06 01.5      74
              EPCP    Z      26

AUG 02  AFI   EP      Z   09 23 06
               S      ZNE    24 00
               T      ZNE    28 00

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 02  09 42 58.2     11.3S 161.8E  59KM  4.8  SOLOMON IS
                          H  M  S  DIR DIS  LGM A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   09 46 48        16
        AFI   EP      Z   09 48 27        26
               S      ZNE    54 00
        KRP   EP      Z   09 48 57        29
        SBA   EP      ZNE 09 53 45.5      67
              EPCP    ZNE    54 09.3

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 02  09 52 30.4     11.7S 162.0E  44KM  4.7  SOLOMON IS
                          H  M  S  DIR DIS  LGM A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP      Z   09 56 20.5      16
        AFI    P      Z   09 58 02        26
        SBA   EP      ZNE 10 03 21        66

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 02  11 13 22.2     47.4N 147.2E 351KM  5.0  KURIL IS
                          H  M  S  DIR DIS  LGM A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP    Z   11 31 42.5     126

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 02  12 55 17.3     11.5S 162.1E  42KM  4.7  SOLOMON IS
                          H  M  S  DIR DIS  LGM A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP      Z   12 59 06.5      16
        AFI   EP      Z   13 00 45        26
               S      NE     06 20
              (L)     ZNE    09
        KRP   EP      Z   13 01 30        29
        CNZ   EP      Z   13 01 39.5      30
        SBA    P      ZNE 13 06 07.6      66

AUG 02  KRP    P      Z   13 59 20.0
        MNG    P      Z   13 59 40
        SBA    P      Z   14 04 27.8

AUG 02  AFI    P      Z   14 22 21
               ES     ZNE    24 40

AUG 02  SBA    P      Z   18 03 27.5
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	H	M	S		EPICENTRE			DEPTH	MAG															
AUG 02	19	48	57,3		26,2S		177,8W	224KM	5,3	S. OF FIJI														
								H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
				RAO	IP		Z	19	49	42,2	D		3											
					I(S)		Z		50	18,2														
				NDF	IP		Z	19	51	09,6	D		9											
				WTZ	EP		Z	19	51	38,3			13											
					E		Z		52	23,0														
					S		Z		53	58														
				KRP	P		Z	19	51	51			13											
					I		ZNE			58,4														
					E		ZNE		52	51,2														
					S		ZNE		54	17,5														
				CNZ	EP		Z	19	52	01			14											
					I		Z			10,2														
					ES		Z		54	37														
				MNG	EP		Z	19	52	13			15											
					I		Z			20,7														
					ES		Z		54	56														
				WEL	P		ZNE	19	52	29,5			16											
					S		ZNE		55	16														
				RAR	E		Z	19	52	41			17											
					EP		ZNE			46,5														
					E		ZNE		53	29,5														
					S		ZNE		55	42														
					ET		ZNE		07	43														
					T(MAX)		Z		09	26,3														
				MJZ	EP		ZNE	19	53	11,5			20											
					S		ZNE		56	42														
					EPCS		NE	20	00	58,5														
				MSZ	P		Z	19	53	35,0			22											
					ePP		Z		54	10,9														
					ES		Z		57	19														
				MNW	P		Z	19	53	46,6			23											
					ES		Z		57	32														
				SBA	IP		ZNE	19	57	49,3	D		52											
					IPCP		Z		58	57,2														
					S		NE	20	05	07														
AUG 02	AFI	E(P)			Z		21	47	35															
		(S)			ZNE			50	30															
	H	M	S		EPICENTRE			DEPTH	MAG															
AUG 02	21	38	50,4		56,1N		163,2E	33KM	5,6	KAMCHATKA														
								H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
				AFI	S		N	22	00	14			73											
					L		ZN		12															
				KRP	EP		Z	21	52	12			94											
				SBA	EPKP		Z	21	57	54,3			134											
					PKP		ZNE		58	05														
					SKP		ZN	22	01	33														
AUG 03	RAO	P			Z		04	20	34,8															
	WTZ	P			Z		04	21	48,7															
	KRP	P			ZNE		04	21	57,5															
	SBA	P			Z		04	28	34,3															
	H	M	S		EPICENTRE			DEPTH	MAG															
AUG 03	04	40	54,9		51,2N		178,1W	49KM	5,8	ALEUTIAN IS														
								H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
				AFI	EP		Z	04	51	42			65											
					ES		ZNE	05	00	24														
					SS		7E		04	32														
					LQ		E		07															
					LR		ZN		10															
				NDF	EP		Z	04	52	02,5			69											
					(ePP)		Z			12,2															

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       RAR  (*PP)   Z   04 52 40.3      74
             S      N   05 02 33
             L      ZNE    14
       KRP   P      ZNE 04 53 44.9      89 -0.86                    6.6
             *PP    ZNE    54 01.3
       WEL   E      Z   04 54 04        92
             SKS    ZNE 05 04 29
             PS     NE     06 09
            ELO     NE     19
            ELR     ZNE    24
       COB   EP     Z   04 53 58.5      92
             E*PP   Z      54 15
       MJZ   P      ZE  04 54 28        95
       ROX   S      NE  05 06 05        97
            EL      E      21
       SBA  EPKP    ZNE 04 59 58       129
             PKP    Z   05 00 10
            EPP     Z      02 20
             SKP    Z      03 18
             SKS    N      07 07
            SKKS    N      09 05
          E(SKKP)   ZNE    12 29.5
             SS     NE     20 05
             SSS    N      24 29
             EL     ZNE    40

        H  M  S       EPICENTRE    DEPTH  MAG
AUG 03  05 35 16.4   51.2N 177.9W   49KM  4.8  ALEUTIAN IS
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       KRP  E*PP     Z   05 48 20       89

AUG 03 AFI   P       Z   06 15 25
             S       ZNE    16 17

        H  M  S       EPICENTRE    DEPTH  MAG
AUG 03  06 39 45.9   51.2N 178.1W   45KM  5.5  ALEUTIAN IS
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       RAR  EP?      Z   07 11 18       74
       KRP   P       ZN  07 12 36.1     89
            E*PP     Z      50
       SBA  EPKP     Z   07 18 46.5     129

        H  M  S       EPICENTRE    DEPTH  MAG
AUG 03  07 03 14.2   51.2N 178.0W   48KM  5.4  ALEUTIAN IS
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       KRP   P       ZN  07 16 04       89
             *PP     ZNE    17.8
       SBA   PKP     Z   07 22 09.2     129

AUG 03 KRP   P       Z   09 49 39.5
       CNZ   P       Z   09 49 51.5
       MN3   P       Z   09 50 01

        H  M  S       EPICENTRE    DEPTH  MAG
AUG 03  11 00 43.1   11.1S 162.0E   42KM  4.5  SOLOMON IS
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       SBA   EP      Z   11 11 34       67

AUG 03 WTZ   EP      Z   11 29 45
       KRP   P       ZN  11 29 49.1
       CNZ   P       Z   11 30 07.4

AUG 03 SBA   P       ZNE 12 26 18

        H  M  S       EPICENTRE    DEPTH  MAG
AUG 03  14 28 12.1   11.1S 161.9E   60KM  4.8  SOLOMON IS
                        H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       NDF   P       Z   14 32 07       15
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        MNG  EP       Z   14 34 38        32
        SBA  EP       Z   14 39 01        67

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 03  15 10 23.3    13.4N 120.3E  33KM  5.3  CENTRAL PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P        Z   15 21 47.5      72
        MJZ  P        Z   15 21 52.5      73 +1.38                      5.7

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 03  15 36 14.2    10.9S 161.9E  34KM  4.5  SOLOMON IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP       Z   15 47 06        67

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 03  16 55 21.9    11.3S 162.0E  33KM  4.6  SOLOMON IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP       Z   16 10 52.0D     26 +0.68                      5.8
        NDF  EP       Z   16 09 12        16
        AFI   S       NE  16 16 22        26
        SBA  EP       Z   16 16 14        67

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 03  17 55 53.2    28.1S 177.6W 232KM  4.5  KERMADEC REGION
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  IP       Z   17 56 27.9       1
             E(S)     Z        50.5
        KRP  EP       Z   17 58 24        11
        CNZ  EP       Z   17 58 33        12
             ES       Z   18 00 31
        MNG  EP       Z   17 58 44.5      14
              S       Z   18 01 02.5
        AFI   P       Z   17 59 30        15
              S       ZNE 18 02 08
        MSZ  EP       Z   18 00 04        20
        SBA   P       ZNE 18 04 29.4      50 -0.99                      5.5
        FELT RAOUL ISLAND MM 3

AUG 03  AFI   P       Z   19 04 18
              S       ZNE     05 09
              T       ZNE     09 15
        RAR  EP       Z   19 05 55.6
        KRP   P       Z   19 07 48.5
        MNG  EP       Z   19 08 09.5
        MSZ  EP       Z   19 09 17

AUG 03  SBA   P       Z   20 57 35.5

AUG 03  NDF   P       Z   21 11 07.3

AUG 03  AFI   P       Z   22 30 02
              S       ZNE     22

AUG 03  CNZ   P       Z   22 31 40.8
        MNG   IP      Z   22 31 49.8D

AUG 04  NDF   P       Z   00 21 25
        AFI   P       Z   00 21 42
              S       ZNE     23 24
        RAR  EP       ZNE 00 23 03.5
             ES       ZNE     25 28
             ET       ZNE     37 54
        MNG  EP       Z   00 23 36.2
             ES       Z       26 57
        SBA   P       Z   00 28 55.8
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          H  M  S       EPICENTRE    DEPTH  MAG
AUG 04    07 17 23.7    11.1S 162.1E  33KM  4.4  SOLOMON IS
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP        Z   07 21 18        16
          AFI    S        N   07 29 36        25
                 L        ZE     30
          KRP   EP        Z   07 23 36.5      29
          MNG   EP        Z   07 23 48        32
          MSZ   EP        Z   07 24 07        34
          SBA   EP        ZNE 07 28 19        67

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 04    07 24 47.9    11.1S 162.2E  33KM  4.6  SOLOMON IS
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA    P        Z   07 35 40.3      67
                 E        Z      37 16.7

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 04    11 38 08.3    56.2N 135.3W  20KM  5.6  S. E. ALASKA
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI    P        Z   11 50 06        76
                 L        ZN  12 12
          NDF  E(P)       Z   11 50 54        84
          SBA   EPKP      ZNE 11 57 28       139
                EPP       Z   12 00 31
                ESKP      Z      02 40

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 04    13 19 18.2    60.4S 151.2E  33KM       W. OF MACQUARIE I.
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNW    P        Z   13 23 16.3      15
          SBA    P        ZNE 13 23 21.8      15 -1.13                    5.0
                 E        Z      24 24
          MSZ    P        Z   13 23 26.6      19
          MJZ   EP        ZNE 13 23 42        20
          MNG   EP        Z   13 24 31        23

AUG 04    NDF    P        Z   14 56 30.3

AUG 04    NDF    P        Z   17 14 07.3

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 04    17 51 12.9    49.2N 156.1E  54KM  5.7  KURIL IS
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI    E        Z   18 02 23        69
                 S        ZNE    11 28
                 SS       ZN     15 34
                 LQ       E      18
                 LR       ZN     22
          NDF   EP        Z   18 02 19.3      69
          KRP    P        ZNE 18 04 01.2      88 -0.71                    6.6
          MNG   EP        Z   18 04 10.6      91 -1.15                    6.3
          COB   EP        Z   18 04 18        91
          MJZ   EP        Z   18 04 26        94
          SBA    PKP      ZNE 18 10 11.3     127
                 E        Z      16.7
                  PKP2    ZNE    26.3
                 EPP       Z   12 15
                 ESKP      Z   13 35
                 ESKKS     N   19 13
                  SKKP     ZNE 23 07.5
                 (PKKS)    E      50.5
                 ESS       NE  29 29
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	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 04	20	01	37,7	11,2S	162,1E	34KM	5,2	SOLOMON IS								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P	Z	20	05	28,3		16							
	AFI		P	ZNE	20	07	08		26							
			S	ZNE		11	40									
			LQ	N		12										
			LR	ZE		14										
	KRP		P	ZNE	20	07	39,3		29	-0,92						5,7
			EPCP	Z		10	44,5									
	CNZ		P	Z	20	07	50		30	-1,12						5,6
	MNG		EP	Z	20	08	02		32							
	MJZ		P	ZNE	20	08	11,3		33	-0,89						6,0
	MSZ		P	Z	20	08	19,0		34	-0,96						5,9
	RAR		E(P)	Z	20	08	53,5		38							
	SBA		P	ZNE	20	12	29,1		67	-0,86	2	8				6,2
			ePP	Z			41,3									
			PCP	Z		13	13,3									
			S	E		21	27								7	12 6,6
			PS	N			52									
			SCS	NE		22	30									
			SS	ZNE		25	54									
			LQ	NE		29										
			LR	ZNE		33										

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 04	20	39	22,9	11,5S	162,1E	42KM	4,6	SOLOMON IS								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		EP	Z	21	03	15,5		16							
	MNG		EP	Z	21	05	50		31							
	SBA		P	ZNE	21	10	14,0		66							

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 04	21	05	36,4	11,4S	162,3E	23KM	4,7	SOLOMON IS								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P	Z	21	09	29		16							
	AFI		P	Z	21	11	06		25							
	KRP		P	Z	21	11	40		29							
	SBA		P	Z	21	16	29,4		66	-1,50						5,7

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 04	22	30	36,3	11,1S	162,0E	36KM	5,9	SOLOMON IS								
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		EP	Z	22	34	30		16							
	AFI		P	Z	22	36	06		26							
			S	ZN		40	42									
			LQ	Z		41										
			LR	ZE		43										
	KRP		P	ZNE	22	36	41		29	-0,51						6,1
			SCP	Z		43	29									
	CNZ		P	Z	22	36	52,7		30	-0,66						6,1
	MNG		P	Z	22	37	01		32							
	WEL		EP	Z	22	37	05		32							
			PP	Z		38	09									
			ES	ZNE		42	13									
			L	NE		44										
	MJZ		P	ZNE	22	37	15,3		34	-0,35						6,5
			ES	NE		42	39									
	RAR		ES	N	22	44	00		38							
			LQ	N		47										
	SBA		P	ZNE	22	41	28,0		67	-0,30						6,9
			I	Z			31,1									
			S	ZNE		50	26						3	12	4	11 6,3
			(SP)	Z			36									
			ESCS	NE		51	21									
			SS	N		55	11									

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          H  M   S       EPICENTRE    DEPTH  MAG
AUG 05    02 02 33.5    11.4S 162.1E   39KM  4.6  SOLOMON IS
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P       Z   02 09 37.1      34
          MJZ   EP      Z   02 09 32.5      33
          SBA   P       ZN  02 13 53.1      66 -1.03                    6.1

          H  M   S       EPICENTRE    DEPTH  MAG
AUG 05    02 06 18.0    11.4S 162.2E   44KM  4.5  SOLOMON IS
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   (S)     ZNE 02 15 52      24
          MSZ   P       Z   02 12 55.5    34
          SBA   P       ZNE 02 17 07.4    66 -1.35                    5.8
                E       Z       18 06.5

          H  M   S       EPICENTRE    DEPTH  MAG
AUG 05    02 34 49.7    11.2S 162.1E   30KM  4.8  SOLOMON IS
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP      Z   02 38 47      16
          AFI   (P)     Z   02 40 19      26
          MJZ   P       ZNE 02 41 30.8    33
          MSZ   P       Z   02 41 33      34
          SBA   P       ZNE 02 45 42.2    67 -1.56                    5.6

          H  M   S       EPICENTRE    DEPTH  MAG
AUG 05    03 36 34.4    11.1S 162.2E   33KM  4.7  SOLOMON IS
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA   EP      ZN  03 47 26.3    67 -1.48                    5.7

          H  M   S       EPICENTRE    DEPTH  MAG
AUG 05    03 44 01.8    17.9S 178.6W  619KM  5.2  FIJI REGION
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   IP      Z   03 45 37.6U     4
                I       Z       40.1
                S       Z   46 41.5
          AFI   IP      Z   03 45 54.5D     8  0.49
                S       ZNE 47 27
          RAO   S       Z   03 48 38        11
          RAR   P       Z   03 47 37.0U    18 -0.96                    5.4
          KRP   EP      ZNE 03 48 00       21 -1.09                    5.3
                (*PP)   ZNE     49 30.2
          GNZ   P       ZNE 03 48 03.3     21 -0.49                    6.0
                ES      ZNE     51 12.5
          MNG   P       Z   03 48 21.6     23
                (*PP)   Z       49 53
                ES      Z       51 48
          MJZ   P       ZNE 03 49 02.5     28
                (*PP)   ZNE     50 32.5
          MSZ   P       Z   03 49 15.1     29
                (*PP)   Z       50 51.5
          MNW   P       Z   03 49 24.2     30 -0.89                    5.7
                (*PP)   Z       50 57
          SBA   P       ZNE 03 53 16.2U    60 -1.20                    5.1
                *PP     ZNE     55 14.3

AUG 05    AFI   P       Z   03 51 30
                (S)     ZNE     52 40

AUG 05    AFI   P       Z   04 21 32
                S       ZNE     22 28

          H  M   S       EPICENTRE    DEPTH  MAG
AUG 05    05 17 49.2    11.2S 162.3E   47KM  4.2  SOLOMON IS
                        H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   EP      Z   05 24 28      34
          SBA   EP      Z   05 28 39      67
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	H	M	S	EPICENTRE		DEPTH	MAG								
AUG 05	05	31	32.4	11.2S	161.9E	33KM	5.2	SOLOMON IS							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	05	35	22		16								
	AFI	(S)		ZNE	05	41	40		26								
	KRP	P		Z	05	37	35.4		29								
	MNG	P		Z	05	37	53.7		32								
	MJZ	P		ZNE	05	38	11.0		33	-1.29							5.6
	MSZ	P		Z	05	38	12.5		34								
	SBA	P		ZNE	05	42	23.2		67	-0.80							6.4
		(EPP)		Z			35.2										
		ES		NE		51	42						1	10			6.0
		L		ZNE	06	03											

	H	M	S	EPICENTRE		DEPTH	MAG								
AUG 05	06	30	58.8	11.2S	162.1E	33KM	5.4	SOLOMON IS							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P		Z	06	34	49.4		16								
	AFI	IP		Z	06	36	28.90		26	0.13							6.6
		S		ZNE		41	12										
		LQ		N		42											
		LR		ZE		43											
	KRP	P		ZNE	06	37	00.8		29	-0.95							5.7
		E		Z		38	06										
		PCP		Z		40	13										
	CNZ	P		Z	06	37	11.7		30	-1.12							5.6
	MNG	P		Z	06	37	22.3		32								
		EPCP		Z		40	19										
	WEL	S		ZE	06	42	36		32				7	18			6.0
		L		ZNE		44											
	MJZ	EP		ZNE	06	37	41		33	-0.89							6.0
	MSZ	P		Z	06	37	41.3		34	-1.06							5.8
	RAR	EPP		Z	06	41	58		38								
		SS		N		47	14										
		L		E		49											
	SBA	P		ZNE	06	41	51.1		67	-0.80							6.4
		S		ZNE		50	49								5	13	6.4
		ESCS		N		51	52										
		ESS		NE		55	09										
		LQ		E		58											
		LR		ZNE	07	02											

AUG 05	MSZ	EP	Z	06	43	35	
	SBA	P	ZNE	06	47	44.5	

AUG 05	AFI	P	Z	06	45	52	
		S	ZNE		46	12	

	H	M	S	EPICENTRE		DEPTH	MAG								
AUG 05	06	42	58.6	10.2S	151.8E	39KM	4.8	DENTRECASTEAUX IS							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P		Z	06	48	36		26								
	KRP	P		Z	06	49	49		35	-1.15							5.7
	MNG	P		Z	06	50	04.7		37	-1.38							5.5
	MSZ	EP		Z	06	50	12		37								
	SBA	EP		ZNE	06	54	11		68	-1.23							5.9

AUG 05	MJZ	EP	Z	06	55	21.5	
	MSZ	P	Z	06	55	26	
	SBA	P	ZNE	06	59	32.1	

	H	M	S	EPICENTRE		DEPTH	MAG								
AUG 05	08	47	20.7	11.2S	162.3E	40KM	4.8	SOLOMON IS							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	P		Z	08	54	02.5		33								
	MSZ	EP		Z	08	54	08		34								
	SBA	P		ZNE	08	58	13		67	-1.50							5.6

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AUG 05  AFI    P        Z   10 23 08
               S        ZNE     47
               T        ZNE     26 25
        WTZ    EP       Z   10 27 12.7
        KRP    P        ZNE 10 27 15.1          -1.33
        MNG    EP       Z   10 27 39
        MJZ    P        Z   10 28 28
        MSZ    EP       Z   10 28 45.5

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 05  11 28 22.8     11.3S 162.3E   33KM   4.8  SOLOMON IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ    P        Z   11 35 01.3      33
        MSZ    EP       Z   11 35 03.5      34
        SBA    P        ZNE 11 39 14        67 -1.46                      5.7

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 05  13 50 24.3     29.8S 177.2W   63KM   4.5  KERMADEC IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    IP       Z   13 50 48.7D      1
        GNZ    EP       ZNE 13 52 45        10
               S        ZNE     54 29.5
        MNG    EP       Z   13 53 13.5      12
               S        Z       55 28.5
        NOF    EP       Z   13 53 31        13
        AFI    P        Z   13 54 07        17
               S        ZNE     56 53

SEP 20  GNZ    P        ZNE 18 47 46.0
        MNG    P        Z   18 47 54
               (PCP)    Z       51 25
        COB    P        Z   18 47 56.0
        MJZ    P        ZNE 18 48 17.9          -0.92
               PCP      ZN      51 01
        MSZ    P        Z   18 48 27
        SBA    P        ZNE 18 52 33

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 21  00 10 13.3      3.0N  96.1E   33KM   5.2  N. SUMATRA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG

AUG 05  MJZ    P        ZNE 13 54 20            -1.12
               ES       ZNE     57 20
        RAR    P        ZNE 13 54 24            -0.79
               S        ZNE     57 30
        MSZ    P        Z   13 54 39.3          -0.95
               ES       Z       58 02
        SBA    P        ZNE 13 59 07.9          -0.60
               (*PP)    ZNE     17.3
               S        NE  14 06 19                                  3 12
               ESCS     N       09 08
               EL       ZNE     12
        FELT RAOUL IS

AUG 05  RAO    IP       Z   14 42 31.8J
               (S)      Z       52
        WTZ    EP       Z   14 44 13
               S        Z       45 56
        GNZ    S        ZNE 14 46 03
        MNG    EP       Z   14 44 47
               S        Z       46 56
        WEL    ES       ZNE 14 47 16
        SBA    P        ZNE 14 50 33.4          -1.04

AUG 05  RAO E(P)        Z   19 27 07
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	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 05	20	25	16.7	11.1S	162.1E	44KM	4.5	SOLOMON IS

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
MNG	P	Z	20	31	39.6		32	=1.61							5.2
MJZ	P	Z	20	31	56		34								
MSZ	P	Z	20	31	58		34								
SBA	EP	Z	20	37	06.5		67								

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 06	00	53	12.3	44.7N	32.6E	33KM	4.5	BLACK SEA

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
MSZ	PKP	Z	01	12	58.3		149								
	PKP	Z		13	07.2										
COB	PKP	Z	01	13	03.1		151								
	PKP	Z			11.1										
KRP	EPKP	Z	01	13	06		152								
	PKP	Z			14										

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 06	01	12	50.4	25.1N	61.2E	33KM	5.5	S. IRAN

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
MSZ	EPKP	Z	01	31	37		119								
MNG	EPKP	Z	01	31	46		124								

AUG 05	COB	P	Z	01	33 06
	KRP	EP	Z	01	33 09.1
	MSZ	P	Z	01	33 19.7
	MNG	P	Z	01	33 22.40
	MJZ	P	Z	01	33 25

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 06	06	51	02.7	4.1S	131.5E	21KM	4.7	BANDA SEA

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
MJZ	EP	Z	07	00	19		52								
SBA	P	ZNE	07	02	52		76								

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 06	07	14	46.6	11.1S	162.0E	56KM	5.9	SOLOMON IS

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
NDF	P	Z	07	18	34.30		16								
	I	Z		19	01.2										
AFI	P	Z	07	20	12.6		26								
	S	N		25	45										
	LQ	E		26											
	LR	ZN		27											
KRP	P	ZNE	07	20	47.3		29	=0.71							5.9
	PCP	Z		23	53.8										
	ES	NE		25	40										
	SCP	Z		27	34.6										
	SCS	NE		31	32										
MNG	P	Z	07	21	06.5		32	=0.90							5.9
	PCP	Z		23	41.4										
	E	Z		26	45.5										
WEL	EP	Z	07	21	10		32								
	EPP	Z		22	13										
	S	ZNE		26	20						8	9	11	12	6.3
	ESS	ZNE		28	27										
	L	ZNE		30											
MJZ	P	ZNE	07	21	23		34	=0.59							6.3
	PCP	ZNE		24	02.2										
	E	Z		26	51										
	S	NE			45										
	ESCP	Z		27	49.5										
	ESCS	NE		31	53										
MSZ	P	Z	07	21	26.2		34	=0.62							6.3
	(*PP)	Z			36.1										
MNW	P	Z	07	21	36.3		35	=0.56							6.4

	RAR	P	Z	07	22	00		38			20	11			6.9
		EPP	ZE		23	36									
		ES	ZN		27	58							19	14	6.7
		SS	N		30	57									
		L	ZNE		33										
	CBZ	(P)	Z	07	22	34		42							
	SBA	P	ZNE	07	25	34.9		67	-0.34		2	7			6.5
		*PP	Z			48.0									
		EPCP	Z		26	20									
		S	ZNE		34	34								16 12	6.9
		PS	N		35	03									
		SCS	NE			36									
		E	N		36	44									
		SS	ZNE		39	02									
		E	E		40	15									
		ESSS	NE		42	16									
		ELQ	E		43										
		LR	ZNE		46						8	18	8	19	6 18
		PKPPKP	ZNE	08	09	05									
		E	Z		10	18									
AUG 06	AFI	(P)	Z	07	22	43									
		(S)	ZNE		24	39									
AUG 06	AFI	(P)	ZNE	07	29	02									
	KRP	EP	Z	07	29	39.5									
	MJZ	P	ZNE	07	30	09.0									
	MSZ	P	Z	07	30	11.5									
	SBA	P	ZNE	07	34	19.7									

	H	M	S	EPICENTRE			DEPTH	MAG							
AUG 06	07	53	13.9	22.3S		174.1E	60KM	5.0	LOYALTY IS						
					H	M	S	DIR	DIS	LG-AZT	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	07	54	31			6							
	KRP	P		ZNE	07	56	59.4			16	-0.84						5.3
	MNG	P		Z	07	57	27.9			18							
	MJZ	P		ZNE	07	58	07.5			22							
	MSZ	P		Z	07	58	18			23							
	SBA	P		ZN	08	02	48			56	-1.48						5.7

	H	M	S	EPICENTRE			DEPTH	MAG							
AUG 06	10	15	40.4	11.2S		162.0E	47KM	5.1	SOLOMON IS						
					H	M	S	DIR	DIS	LG-AZT	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	10	19	29			16							
	AFI	P		ZNE	10	21	07			26							
		E		Z		25	46										
		S		NE		26	40										
	KRP	P		Z	10	21	41			29							
		EPCP		Z		24	46										
	COB	EP		Z	10	21	56.3			31							
	MJZ	P		ZNE	10	22	15.3			33							
		EPCP		Z		24	59										
	MSZ	P		Z	10	22	17.5			34							
	SBA	P		ZNE	10	26	28.0			67	-0.59						6.4

	H	M	S	EPICENTRE			DEPTH	MAG							
AUG 06	11	12	23.7	6.6S		105.1E	65KM	5.6	W. JAVA						
					H	M	S	DIR	DIS	LG-AZT	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P		Z	11	23	08.2			66	-1.32						5.7
	MJZ	EP		ZNE	11	23	16.6			68							
	COB	EP		Z	11	23	24			69							
	KRP	EP		Z	11	23	37.3			71							
	SBA	P		Z	11	24	37.3			78	-1.50						5.5
		*PP		Z			49.5										

	H M S	EPICENTRE	DEPTH	MAG									
AUG 06	12 08 23.5	11.3S 162.1E	61KM	4.7	SOLOMON IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF EP	Z 12 12 11		16								
	MJZ P	Z 12 14 59		33								
	MSZ EP	Z 12 15 04		34								
	SBA P	ZNE 12 19 11.5		67	-1.45							5.6
	H M S	EPICENTRE	DEPTH	MAG									
AUG 06	15 17 33.1	11.2S 162.0E	49KM	5.2	SOLOMON IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF P	Z 15 21 25		16								
	AFI P	Z 15 22 02		26								
	S	ZNE 28 36										
	KRP EP	Z 15 23 33		29								
	EPCP	Z 26 41										
	MNG P	Z 15 23 54.9		32								
	MJZ P	ZNE 15 24 10.1		33	-1.18							5.7
	MSZ P	Z 15 24 12.3		34	-1.10							5.8
	SBA P	Z 15 28 22.6		67	-0.94							6.2
	EL	ZNE 49										
AUG 06	NDF P	Z 15 26 09.5			-1.56							
	H M S	EPICENTRE	DEPTH	MAG									
AUG 06	15 25 18.5	11.4S 162.2E	33KM	4.9	SOLOMON IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ EP	Z 15 31 58		33								
	MSZ EP	Z 15 32 00		34								
	SBA P	ZNE 15 36 11		66	-1.45							5.7
AUG 06	AFI P	Z 15 48 47										
	S	ZNE 49 11										
	H M S	EPICENTRE	DEPTH	MAG									
AUG 06	17 43 14.8	11.2S 162.2E	33KM	4.7	SOLOMON IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ EP	Z 17 49 55		33								
	MSZ EP	Z 17 49 57		34								
	SBA P	Z 17 54 07		67								
	H M S	EPICENTRE	DEPTH	MAG									
AUG 07	01 36 55.0	18.2N 120.9E	33KM	4.6	LUZON								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 01 48 41.3		76	-1.21							5.9
	CNZ P	Z 01 48 46.5		77	-0.96							6.1
	MJZ P	Z 01 48 46.6		77								
AUG 07	AFI EP	ZNE 04 57 43										
	S	ZNE 58 39										
	H M S	EPICENTRE	DEPTH	MAG									
AUG 07	08 17 46.8	11.4S 162.1E	33KM	4.9	SOLOMON IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ EP	Z 08 24 06		34								
	SBA P	Z 08 28 39.3		66	-1.56							5.6
	H M S	EPICENTRE	DEPTH	MAG									
AUG 07	09 24 14.7	16.6S 172.1W	33KM	5.8	SAMOA REGION								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI IP	Z 09 24 56.5D		3								
	S	ZNE 25 40										
	T	ZNE 36 43										
	NDF IP	Z 09 26 45.0D		10								
	RAR P	ZNE 09 27 05.5D		13	0.00							
	S	ZNE 29 15.5										
	ET	ZNE 36 36										

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        RAO   P        Z   09 27 24.8      14
              S        Z      29 50
        KRP   EP       Z   09 29 28.2      24  0.29                          6.7
              I        ZNE    33.8
              S        ZNE    33 47
        MNG   EP       Z   09 29 47.5      26 -0.11                          6.4
              I        Z      58.9
              PCP      Z      33 26.3
              ES       Z      34 29
        WEL   EP       ZNE 09 29 54        27 -0.33                          6.2
              PCP      ZN     33 17
              E        ZN     30
              S        ZNE    34 53
              L        ZNE    35 20
        MJZ   EP       Z   09 30 32        31
              PCP      ZNE    33 26.5
              E        Z      39.5
              ES       ZNE    35 49
        MSZ   EP       Z   09 30 46        33 -0.62                          6.2
        SBA   IP       ZNE 09 34 34.5USW   62 -0.31    2 10                  6.5
              *PP      Z      47.0
              EPCP     Z      35 14
              S        ZNE    43 05                        3 12             6.1
              EL       ZNE    50
              EPKPPKP  ZNE 10 03 44
        FELT  NIUE IS  MM4

AUG 07  AFI   P        Z   14 39 59
              S        ZNE    40 19

AUG 07  RAO   P        Z   20 56 46

AUG 07  AFI   P        Z   23 12 38
              S        ZNE    13 26

AUG 07  AFI   P        Z   23 16 25
              S        ZNE    17 24

         H  M   S       EPICENTRE    DEPTH  MAG
AUG 07  23 16 39.0    19.1S 169.1E  184KM  5.5  NEW HEBRIDES
                          H  M   S  DIR DIS LQ AZ T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP       Z   23 18 35.7U        8
        AFI   P        Z   23 20 45           19
              PP       ZNE    21 44
              S        ZNE    25 08
        KRP   IP       ZNE 23 20 56.2U        20 -0.46                      5.9
              *SP      Z      21 38.9
        CNZ   P        Z   23 21 10           21 -0.82                      5.6
        MNG   IP       Z   23 21 21.1U        22 -0.67                      5.8
              I*SP     Z      55.8
        MJZ   P        ZNE 23 21 47.0        25
              E*PP     ZNE    22 25
              PCP      Z      25 17
              SCP      Z      28 40
        MSZ   EP       Z   23 21 53           26
              *PP      Z      22 32.9
        SBA   IP       ZNE 23 26 20.4 *      59 -0.71                      6.1
              I*PP     ZNE    27 00.8
              S        NE     34 16 *                  1  8

AUG 08  RAO   IP       Z   02 25 40.3U
        MNG   EP       Z   02 27 54
              ES       Z      30 07
        COB   ES       Z   02 30 38

AUG 08  AFI   IP       Z   04 14 07.5U        -0.80
              S        ZNE    32
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AUG 08  AFI    P        Z   09 50 34
               S        ZNE     51 52
               T        ZNE     57 50
        SBA  E(P)       Z   09 58 45

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 08  09 45 49,3     48,1N 157,1E   33KM  5,1  KURIL IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P        Z   09 58 46        90
        SBA    PKP      Z   10 04 49       126

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 08  09 53 29,4     31,6N 141,2E   43KM  4,4  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P        Z   10 05 29        79

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 08  15 59 36,5     5,2S 151,9E   73KM  5,0  NEW BRITAIN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P        Z   16 07 16        41
               *PP      Z       29,6
        SBA    P        ZNE 16 11 02,3      73 -1,60                        5,4
               *PP      Z       15,3

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 08  17 43 53,4     26,4S 179,2E  533KM  4,4  S. OF FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    IP       Z   17 45 12,50     4
               ES       Z      46 21
        NDF    P        Z   17 45 58,7      9
        KRP    EP       Z   17 46 34,5     12 -1,33
        GNZ    P        ZNE 17 46 36       12
               S        ZNE    48 45
        MNG    EP       Z   17 46 57,5     15
               ES       Z      49 29
                SCP     Z      54 18,4
        COB    P        Z   17 47 10,4     16

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 08  18 46 01,1     11,5S 162,1E   13KM  4,9  SOLOMON IS.
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    P        ZNE 18 56 54,5     66 -1,87                        5,4
               E*PP     Z      57 03

AUG 08  RAO    IP       Z   20 42 21,00
        MNG    ES       Z   20 46 55

AUG 08  SBA    EP       ZNE 21 21 03

AUG 08  SBA    P        ZNE 21 54 33,3        -1,61

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 09  00 37 57,9     23,3S 178,3W  323KM  5,0  S. OF FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    IP       Z   00 39 27,00     6
               ES       Z      40 41
        NDF    IP       Z   00 39 41,00     7
               E        Z      40 13,2
        AFI    P        Z   00 40 26       11
               S        ZNE    42 22
               T        ZNE    52 45
        GBZ    P        Z   00 41 06,1     14
        WTZ    P        Z   00 41 16,5     15
               ES       Z      44 02
        KRP    IP       ZNE 00 41 22,10    16 -0,07                        6,2
                *SP     Z      43 03,5
               S        ZNE    44 11,5
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        GNZ   EP        ZNE 00 41 21          16
              ES        ZNE    44 03
        CNZ    P        Z   00 41 31.7       17 *0.46                        5.8
               I        Z      35.4
        TNZ   EP        Z   00 41 38          17
        RAR    P        Z   00 41 41.7       17
        MNG   EP        Z   00 41 43.5       18
               *SP      Z      43 28
               S        Z      44 49
               SCP      Z      49 18.0
        WEL   EP        ZNE 00 41 55          19
               *SP      Z      43 42
               S        ZNE    45 10
        COB    P        Z   00 42 00          19
               S        Z      45 20.5
        MJZ    P        ZNE 00 42 31.2       23 *1.01                        5.3
               S        ZNE    46 12
               SCP      Z      49 28.0
        MNW    P        Z   00 42 55          25 *0.67                        5.7
        SBA    IP       ZNE 00 47 01.3U      55 *1.14                        5.4
               I        ZN     05.4
               PCP      Z      56.6
               E*PP     Z   48 13
        NDF TIMING UNCERTAIN

AUG 09  AFI    IP       Z   03 25 08.0U
               S        ZNE    50
        KRP    P        Z   03 29 03.3
        MNG   EP        Z   03 29 24
        COB   EP        Z   03 29 35

AUG 09  AFI    P        Z   04 16 19
               (S)      ZNE    18 07

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 09  04 17 37.3     7.9N  94.1E   33KM  5.1  NICOBAR IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   EP        Z   04 30 17.5       86 *1.15                        6.1
        COB    P        Z   04 30 22.7       87
        KRP   EP        Z   04 30 29.5       88
        MNG    P        Z   04 30 33.6       89
        SBA   EP        ZNE 04 30 54.3       94 *1.65                        5.9

AUG 09  RAO  E(P)       Z   07 21 30
              ES        Z      22 21
        WTZ    P        Z   07 21 51.5
               S        Z      22 56
        GNZ    P        ZNE 07 21 54
               S        ZNE    23 00.5
        KRP   EP        ZNE 07 22 02.5
        MNG   EP        Z   07 22 27
               S        Z      23 59.5

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 09  12 48 41.4     8.0N  94.2E   33KM  5.0  NICOBAR IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP        Z   13 02 04       94

AUG 09  RAO    IP       Z   12 58 55.6U
              I(S)      Z      59 20.0
        NDF    P        Z   13 00 20
        WTZ    P        Z   13 00 20
               ES       Z      01 57
        GNZ   EP        ZNE 13 00 23
               S        ZNE    02 00
        KRP   EP        Z   13 00 27.5
        MNG   EP        Z   13 00 52
               ES       Z      02 56
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        COB   EP        Z   13 01 28
        SBA   P         ZNE 13 06 45.2          =1.27

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 09  14 32 41.1     10.9S 161.6E   33KM  5.0  SOLOMON IS
                          H  M  S   DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   E         N   14 44 20        26
              L         ZE      45
        KRP   EP        Z   14 38 55.4      30
              EPCP      Z   14 41 54
        MNG   EP        Z   14 39 06        32
        SBA   EP        ZNE 14 43 36        67

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 09  15 17 02.1     11.0S 161.4E   33KM  4.6  SOLOMON IS
                          H  M  S   DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP        Z   15 23 29        32
        SBA   EP        Z   15 28 05        67

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 09  15 26 56.3     10.8S 161.4E   39KM  4.8  SOLOMON IS
                          H  M  S   DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP        Z   15 29 57.3      17
        MNG   P         Z   15 33 22.2      32
        SBA   EP        Z   15 37 53        67

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 09  15 34 49.6     26.4N 140.5E 470KM  5.1  BONIN IS
                          H  M  S   DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P         Z   15 42 51        57
        KRP   P         ZNE 15 45 25.8      72 =0.95                    5.7
              EPCP      Z       38.5
              E-PP      Z       47 11.6
              E         Z       21
        COB   P         Z   15 45 34.9      74
              EPCP      Z       47.7
        MNG   P         Z   15 45 37.3      74
              EPCP      Z       49.9
              E-PP      Z       47 21
        MJZ   EP        Z   15 45 42.5      75
        MNW   P         Z   15 45 48        75

AUG 09  AFI   P         Z   15 41 59
              S         ZNE     42 43
              T         ZNE     46 45

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 09  19 05 50.7     10.9S 161.3E   33KM  4.6  SOLOMON IS
                          H  M  S   DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   E(P)      Z   19 12 18        32
        SBA   EP        Z   19 16 39        67

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 09  19 19 14.6     10.9S 161.5E   36KM  4.6  SOLOMON IS
                          H  M  S   DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP        Z   19 25 42        32
        SBA   EP        Z   19 30 17        67

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 09  19 42 17.3     53.0N 107.5E   33KM  5.1  LAKE BAIKAL REGION
                          H  M  S   DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   PKP       ZNE 20 01 33.5     135

AUG 09  SBA   P         Z   20 41 36.7
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                H  M   S        EPICENTRE     DEPTH  MAG
AUG 09          23 07 45.7      29.9S  72.0W  21KM   4.7  CHILE
                                      H  M   S  DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
          SBA     P             ZNE 23 18 41        67

AUG 10    MSZ     P             Z   02 23 56.6
          MNG     P             Z   02 24 35.6

                H  M   S        EPICENTRE     DEPTH  MAG
AUG 10          03 09 39.5      10.7S 161.3E  51KM   4.9  SOLOMON IS
                                      H  M   S  DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP              Z   03 13 36        17
          AFI   E               N   03 20 20        26
                (S)             ZE     22 24
          KRP   EP              ZNE 03 15 43        30
                PCP             Z      17 58.7
          MNG   P               Z   03 16 04.1      32 -1.42                          5.4
          MJZ   P               ZNE 03 16 25.3      34 -1.29                          5.6
          MSZ   P               Z   03 16 25        34
                ePP             Z      38.3
          SBA   P               ZNE 03 20 30.4      67 -1.43                          5.7
                E               Z      41

AUG 10    AFI   P               Z   03 54 45
                S               ZNE    55 11

AUG 10    RAO   EP              Z   06 19 01
                S               Z      20 48
          WTZ   P               Z   06 19 47.3
          GNZ   S               ZNE 06 21 18
          KRP   EP              Z   06 19 54.5
          MNG   P               Z   06 20 17
                S               Z      22 10.5

                H  M   S        EPICENTRE     DEPTH  MAG
AUG 10          06 20 24.1      10.9S 161.9E  29KM   4.8  SOLOMON IS
                                      H  M   S  DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
          MNG   P               Z   06 26 51.3      32
          SBA   EP              Z   06 31 17        67

AUG 10    RAO   IP              Z   09 59 19.1
                (S)             Z      41
          GNZ   ES              ZNE 10 03 03
          MNG E(P)              Z   10 02 05
                S               Z      04 04
          SBA   P               Z   10 08 35

                H  M   S        EPICENTRE     DEPTH  MAG
AUG 10          15 31 24.7      21.5S 174.6W  33KM   5.7  TONGA IS
                                      H  M   S  DIR DIS LG  A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   P               Z   15 33 13         8
                S               ZNE    34 34
                T               ZNE    40 22
                T(MAX)          NE     41 07
          RAO   P               Z   15 33 24         8
                S               Z      34 55
          NDF   P               Z   15 33 35.6       8
          RAR   P               ZNE 15 34 27.5      14 -0.93
                I               Z      31.1
                S               ZNE    36 47
                ET              ZNE    48 03
          KRP   P               ZNE 15 35 43        19 -1.09                          5.1
                ES              ZNE    39 21
          MNG   P               Z   15 36 05.2      21 -0.98                          5.3
                ES              Z      39 47
          MJZ   P               ZNE 15 36 55.5      25 -1.08                          5.4
                ES              ZNE    41 31
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                P       Z       37 11.2          -0.99                    5.5
        SBA     P       ZNE 15 41 13.1      57 -0.73                     6.4
              I(*PP)    Z          26.0
                S       E       40 18
                SCS     E       51 06
                LQ      E          37
                LR      Z    16 00

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 10  21 06 40.1     32.4N  93.9E   33KM  5.2  TIBET
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA     PKP     Z    21 25 25.6     118

AUG 10  AFI     P       Z    23 37 57
                S       ZNE  38 20
                T       ZNE  39 49

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  01 05 35.5      0.1S 121.9E  274KM  5.8  SULAWESI
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF     EP      Z    01 14 59      57
        MSZ     IP      Z    01 15 17.7D   60 -0.86                     5.8
        MJZ     P       ZNE  01 15 25.2    61 -1.13                     5.6
                E       Z         56.5
        KRP     P       Z    01 15 29.7D   62
                E       Z    16 07.5
        MNG     IP      Z    01 15 35.2D   63 -0.93                     5.8
        SBA     P       ZNE  01 17 23.6D   81 -1.23                     5.7
                EPCP    Z         32

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  02 22 14.2     44.7N 102.0E   33KM  5.0  MONGOLIA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA     PKP     ZNE  02 41 18.6    128

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  02 32 42.1     33.6N 141.3E   19KM  4.2  E. OF HONSHU
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP     EP      Z    02 44 42      78

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  07 31 31.0     25.1S 179.2W  390KM  4.9  S. OF FIJI
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO     IP      Z    07 32 43.9D    4
        NDF     P       Z    07 33 29.6D    8
              E(S)      Z         35 06
        CRZ     P       ZNE  07 34 11       12 -0.15
        GBZ     P       Z    07 34 12.2     12
        ONE     P       E    07 34 15.5     12
                S       E         36 33
        ECZ     EP      Z    07 34 18       13
              E(*SP)    Z         35 39
                ES      Z         36 35
        AUC     IP      Z    07 34 22.7J    13
                (S)     Z         36 57
        AFI     P       Z    07 34 21       13
                S       ZNE       36 37
                T       ZNE       46 07
        WTZ     EP      Z    07 34 22       13
                I       Z         24.5
                (*SP)   Z         35 41
                ES      Z         36 52
        KRP     P       ZNE  07 34 29.3     14 -0.05
              E(*SP)    Z         35 55.5
                S       ZNE       36 38
        GNZ     I       ZNE  07 34 30.6     14
              E(*SP)    Z         35 59
                S       ZNE       36 55
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        TUA    P        Z    07 34 32.7       14
             E(S)       Z         37 05
        GNZ    P        Z    07 34 39.6       15 -0.39
               I        Z         43.7
               S        Z         37 15.5
        MNG    P        Z    07 34 51.2       16
               (*SP)    Z         36 12.5
               S        Z         37 38
               SCP      Z         42 26
        WEL    P        ZNE  07 35 02         17
               S        ZNE       37 57
        COB    EP       Z    07 35 06         17
               ES       Z         38 07.5
        MJZ    EP       ZNE  07 35 41         21
               S        ZNE       39 03
        MSZ              Z    07 35 55.3       22
             E(*PP)     Z         37 00.5
               S        Z         39 30
        SBA    P        ZNE  07 40 13.4       53 -0.63                        5.8
               *PP      Z         41 36.8
               S        NE        48 18
               ESCS     E         50 25
               SS       E         53 17

AUG 11  AFI    S        ZNE  07 41 07

AUG 11  KRP    P        Z    10 15 33.8
        MNG    P        Z    10 15 58.8
        SBA    P        Z    10 20 58.8

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  10 44 28.0    15.4S  73.2W   95KM  5.1  S. PERU
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        SBA    IP       ZNE 10 56 39.6      81 -0.85                        6.1

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  13 24 44.0    54.6N 161.6E  33KM  5.3  KAMCHATKA
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        SBA    PKP      ZNE 13 43 54.4     132
             ESKP       Z         47 18
               E        Z         39

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  16 29 55.1    18.4S 176.7E   47KM  4.7  FIJI REGION
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        NDF    IP       Z    16 30 05.1U       1
        AFI    P        Z    16 31 22          12
               S        E         32 52
               L        ZNE       35
        KRP    EP       Z    16 34 23          19
        GNZ    EP       Z    16 34 30          20
        MNG    P        Z    16 34 51          22 -1.21                        5.1
        SBA    EP       ZNE  16 39 52.5       60 -1.39                        5.8

AUG 11  NDF    IP       Z    16 33 29.0J

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  16 44 16.1     3.5S 130.9E   33KM  5.1  CERAM
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        MNG    EP       Z    16 53 43          55
        SBA    P        ZNE  16 56 07.3       77 -1.39                        5.7

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 11  21 02 39.3    33.2S  70.1W  114KM  5.0  ANDES
                          H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        SBA    P        ZNE  21 13 04.6       64 -1.44                        5.6

AUG 12  AFI    P        Z    04 13 58
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                S       ZNE     14 15

AUG 12  AFI   (S)       NE   05 05 20

AUG 12  SBA     P       ZNE 07 25 45.3

AUG 12  AFI     P       Z   07 46 34
                S       ZNE     47 06

AUG 12  GNZ   ES        ZE  09 09 58
        MNG   EP        Z   09 09 55.5
        RAO   EP        Z   09 06 17.5
                S       Z       41

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 12    09 42 05.2    51.4N 179.3W  29KM  5.9  ALEUTIAN IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       Z   09 52 57       65
                S       ZNE 10 01 32
                SS      E       05 40
                LQ      E       09
                LR      ZN      11
        NDF     P       Z   09 53 10.7     69
        RAR   ES        ZN  10 03 14       74
                L       ZNE     16
        KRP     P       Z   09 54 58.8     89 -0.65                        6.7
                *PP     Z       55 11.1
        MNG     P       Z   09 55 09.3D    92 -1.21                        6.3
        COB     P       Z   09 55 12.6     92
        SBA     PKP     ZNE 10 01 10.5    129
              (PKP)     Z       21.6
                SKP     Z       04 28
                SKKP    ZNE     13 12.7
              E         Z       43.5

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 12    12 34 20.4    53.5N 164.8W  33KM  5.0  S. W. ALASKA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP       Z   12 53 28      132

AUG 12  RAO     P       Z   12 57 36.1
                S       Z       53.5
        GNZ   ES        ZNE 13 00 56
        MNG     E       Z   13 01 55
        MSZ     P       Z   13 01 23

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 12    13 15 48.1    5.0N  82.6W   33KM  5.7  S. OF PANAMA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPP        Z   13 33 14.5     99
                LQ      N       57

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 12    13 42 31.7    10.9S 165.9E  60KM  4.3  SANTA CRUZ IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP?       Z   13 45 49       13
        AFI     P       Z   13 46 05       22
                S       ZN      52 48
                LR      ZE      57
        KRP     EP      Z   13 48 19.5      28
        MNG     P       Z   13 48 42.0      31
        MJZ     EP      Z   13 49 05.5      33
        MSZ     EP      Z   13 49 18.1      34
        SBA     P       ZNE 13 53 20.3      67 -1.71                        5.4
                *PP     Z       34.6
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	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 12	14	12	21.6	0.1N	123.6E	130KM	5.1	SULAWESI								
				H	M	S	DIR	DIS	LG/A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P		Z	14	22	12.6		59 -1.16							5.9
		*PP		Z			46.0									
	MJZ	P		Z	14	22	19.4		61							
	KRP	P		Z	14	22	23.3		61							
	MNG	P		Z	14	22	29.3		62							
	SBA	P		ZNE	14	24	25.1		81 -1.41							5.4

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 12	16	31	04.9	24.5S	176.8W	128KM	3.9	S. OF FIJI								
				H	M	S	DIR	DIS	LG/A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P		Z	16	32	17.7		5							
		ES		Z		33	14									
	NDF	EP		Z	16	33	04.5		9							
	AFI	P		Z	16	33	31		12							
		S		ZNE		35	27									
		T		ZNE		44	30									
	RAR	EP		ZNE	16	34	47.5		16							
		ES		ZNE		37	18									
		ET		ZNE		50	03									
	MNG	P		Z	16	34	55		17							
		ES		Z		37	54									

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 13	04	16	30.0	11.1S	161.5E	33KM	4.6	SOLOMON IS								
				H	M	S	DIR	DIS	LG/A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	(S)		ZE	04	28	04		26							
		SS		ZE		30	44									
		LQ		Z		32										
		LR		NE		33										
	MNG	P		Z	04	22	54.4		32 -1.49							5.3
	MJZ	P		Z	04	23	12.6		34							
	MSZ	EP		Z	04	23	13		34							

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 13	04	22	28.7	11.1S	161.6E	33KM	4.9	SOLOMON IS								
				H	M	S	DIR	DIS	LG/A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	04	26	26.5		17							
	MNG	EP		Z	04	28	54		32							
	MJZ	P		ZN	04	29	12		34 -1.42							5.4
	MSZ	EP		Z	04	29	15.5		34							
	SBA	EP		Z	04	33	23.5		67							
		S		E		42	21							1	9	5.8

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 13	05	51	33.7	10.9S	161.4E	53KM	5.0	SOLOMON IS								
				H	M	S	DIR	DIS	LG/A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	05	55	45.5		17							
	AFI	P		ZE	05	58	26		26							
		S		ZNE	06	05	44									
	MNG	EP		Z	05	58	58.5		32							

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 13	06	09	07.4	10.9S	161.2E	58KM	4.7	SOLOMON IS								
				H	M	S	DIR	DIS	LG/A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	06	13	01		17							

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 13	08	07	22.6	47.2N	144.7E	417KM	4.8	SEA OF OKHOTSK								
				H	M	S	DIR	DIS	LG/A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z	08	19	34.8		89 -1.09							5.8
	MNG	P		Z	08	19	44.3		92							

	H M S	EPICENTRE	DEPTH	MAG								
AUG 13	09 54 12.6	29.6S 177.1W	39KM	4.7	KERMADEC IS							
		H M S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO IP	Z 09 54 28.1			1							
	S	Z 43										
	GNZ EP	ZNE 09 56 29			10							
	S	ZNE 58 19										
	MNG EP	Z 09 57 04			13							
	ES	Z 59 18										
	NDF EP	Z 09 57 15			13							
	COB EP	Z 09 57 24.5			14							
	ES	Z 59 56										
	AFI P	NE 09 58 09			16							
	S	NE 10 00 39										
	T	NE 14 12										
	MJZ P	ZN 09 58 11			17							
	S	ZN 10 01 10										
	RAR EP	ZNE 09 58 10			18							
	ES	ZNE 10 01 13.5										
	MSZ EP	Z 09 58 30			19	-1.10						5.1
	SBA EP	Z 10 03 04			49	-1.26						5.7
AUG 13	RAO P	Z 09 58 21.6										
	S	Z 38										
	GNZ EP	ZNE 10 00 22										
	S	ZNE 02 13										
	MNG EP	Z 10 01 01										
	ES	Z 03 14										
	NDF EP	Z 10 01 14										
	COB EP	Z 10 01 27										
	ES	Z 03 52										
	MJZ P	ZN 10 02 10										
	RAR P	Z 10 02 12.3										
	MSZ EP	Z 10 02 25										
AUG 13	RAO E(P)	Z 10 29 19										
	S	Z 34.5										
	GNZ EP	ZNE 10 31 20										
	S	ZNE 33 10.5										
	MNG EP	Z 10 31 57.5										
	ES	Z 34 08										
	MSZ EP	Z 10 33 32										
AUG 13	AFI P	NE 10 58 28										
	S	NE 44										

	H M S	EPICENTRE	DEPTH	MAG								
AUG 13	11 47 48.0	51.8S 73.9W	33KM	5.6	S. CHILE							
		H M S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	Z 11 56 06.5			45	-1.16						5.7
	ES	N 12 02 54										
	ELQ	NE 07										
	ELR	ZNE 09										
	MJZ EP	ZN 11 58 52			70							
	MNG P	Z 11 59 00			70							
	E	Z 18										
	GNZ P	Z 11 59 03.7			70	-0.52						6.6
	KRP P	Z 11 59 10			72	-1.09						6.0
	NDF EP	Z 12 00 32			87							
AUG 13	RAO IP	Z 15 13 20.6										
	(S)	Z 34										
	GNZ EP	Z 15 15 25										
	S	ZNE 17 09										
	MNG EP	Z 15 15 58										
	ES	Z 18 10										
	NDF EP	Z 15 16 14										

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        COB   ES        Z   15 18 52
        MJZ   EP        Z   15 17 01
        MSZ   EP        Z   15 17 22

AUG 13  RAO   IP        Z   15 14 19
        GNZ   EP        ZNE 15 16 15.5
              S         ZNE     17 56
        MNG   EP        Z   15 16 42
              ES        Z       18 56
        NDF   EP        Z   15 16 58.5
        COB   EP        Z   15 17 12
              ES        Z       19 36
        MJZ   EP        ZN  15 17 50
        MSZ   P         Z   15 18 10.3

AUG 13  AFI   (P)       NE  15 32 08
              S         NE      34 10

AUG 13  RAO   P         Z   15 58 20
              S         Z       36
        GNZ   EP        Z   16 00 29
              S         ZNE     02 09.5
        MNG   EP        Z   16 00 56
              ES        Z       03 10.5
        COB   EP        Z   16 01 29
        MJZ   EP        Z   16 02 06
        MSZ   EP        Z   16 02 22

AUG 13  RAO   IP        Z   17 27 04.8U
              ES        Z       23
        GNZ   EP?       Z   17 29 12
              S         ZNE     30 53
        MNG   EP        Z   17 29 46
              ES        Z       31 53
        MJZ   EP        Z   17 30 34

AUG 14  AFI   P         Z   01 31 19
              S         ZNE     40
              T         ZNE     33 26

         H  M  S        EPICENTRE     DEPTH  MAG
AUG 14   03 57 31.0     10.9S 164.6E   33KM  4.8  SANTA CRUZ IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP        Z   04 01 04        14
        AFI   P         Z   04 02 50        23
              S         N       06 58
              LR        ZE      09
        GNZ   EP        Z   04 03 55        30
        MNG   EP        Z   04 03 57        31
        MJZ   EP        Z   04 04 19.5      33
        SBA   EP        ZNE 04 08 24        67 -1.43                    5.8
              *PP       Z       36.2

         H  M  S        EPICENTRE     DEPTH  MAG
AUG 14   04 30 05.1     59.6S  26.1W   51KM  5.1  SOUTH SANDWICH IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   P         ZNE 04 37 58.7      43 -1.33                    5.4
              PCP       ZNE     39 47.5
              SCP       Z       43 36.8
        MSZ   EP        Z   04 41 44.5      75
        KRP   P         Z   04 42 16.0      81 -1.04                    6.1

AUG 14  NDF   EP        Z   06 04 23

AUG 14  AFI   P         Z   06 19 41
              S         ZNE     20 10
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	H M S	EPICENTRE	DEPTH	MAG								
AUG 14	06 39 49.7	55.9S 27.2W	105KM	5.4	SOUTH SANDWICH IS							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA IP	ZNE 06 48 04.9		46	=0.40							6.5
	SCP	Z 53 21.5										
	MSZ P	Z 06 51 42		79	=1.08							5.8
	MJZ EP	Z 06 51 43.5		79								
	COB P	Z 06 51 56		82								
	KRP P	Z 06 52 10.6		85	=1.09							5.9
AUG 14	NDF IP	Z 08 40 57.2J										
	I(S)	Z 41 09										
	H M S	EPICENTRE	DEPTH	MAG								
AUG 14	11 46 30.6	17.9S 178.6W	622KM	4.8	FIJI REGION							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF IP	Z 11 48 16.1J		4								
	I	Z 18.6										
	AFI P	Z 11 48 43		8								
	S	ZNE 50 15										
	RAR P	Z 11 50 24.8		18	=1.11							5.2
	KRP P	Z 11 50 49.2		21								
	MJZ P	Z 11 51 50		28								
	MSZ EP	Z 11 52 03		29								
	MNW P	Z 11 52 11.7		30								
	(*PP)	Z 53 53										
	SBA P	Z 11 58 02.5		60	=1.56							4.8
	H M S	EPICENTRE	DEPTH	MAG								
AUG 14	15 33 15.3	1.7N 126.4E	33KM	5.5	MOLUCCAS							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF P	Z 15 42 39.5		54								
	MSZ P	Z 15 43 15.2		59	=1.10							6.1
	MJZ P	Z 15 43 21.6		60	=1.18							6.0
	KRP P	Z 15 43 21.7		60								
	MNG EP	Z 15 43 29		61	=1.26							5.9
	SBA P	ZNE 15 45 37.3J		82	=1.26							5.9
AUG 14	RAO IP	Z 18 01 06.1U										
	S	Z 16.5										
AUG 14	RAO IP	Z 21 18 21.8J										
	S	Z 39										
	MSZ P	Z 21 22 25										
AUG 14	RAO P	Z 21 36 38.0										
	S	Z 37 04.5										
	MSZ EP	Z 21 40 39										
	H M S	EPICENTRE	DEPTH	MAG								
AUG 14	22 29 27.6	6.3S 144.4E	44KM	5.6	NEW GUINEA							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF EP	Z 22 36 11.3		34								
	KRP IP	ZNE 22 37 20.8J		42	=0.21							6.5
	E	Z 29.0										
	PCP	Z 39 13										
	CNZ IP	Z 22 37 28.1U		43	=0.15							6.7
	(*SP)	Z 42.1										
	PCP	Z 39 22										
	MSZ P	Z 22 37 28.6		43	=0.89							5.9
	*PP	Z 38.2										
	AFI IP	Z 22 37 30.4J		44	=0.29							6.5
	S	ZE 44 12										
	LQ	N 48										
	LR	ZE 51										
	MJZ P	ZNE 22 37 32.9		44	=0.45							6.3
	PCP	Z 39 18.2										

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        MNG   IP       Z   22 37 33.8J     44 -0.3I                    6.5
              I        Z      41.3
        WEL   P        ZNE 22 37 33.8      44 -0.1I                    6.7
              *PP      Z      45
        GNZ   P        ZNE 22 37 36.1      44 -0.0I                    6.8
              *PP      Z      47.1
              S        E      43 13.5
        RAR   P        Z   22 39 03.80     56 -0.86                    6.3
        SBA   P        ZNE 22 40 52.8      72 -0.29                    6.8
              *PP      Z      41 05.7

AUG 15  AFI   P        Z   03 00 31
              S        ZNE    01 40

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 15  03 50 38.3    17.8S 178.8W 573KM  4.9  FIJI REGION
                         H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z   03 52 00.0      4
              E        Z      24
              ES       Z      53 11
        AFI   P        ZNE 03 52 29        8
              S        ZNE    54 00
        CRZ   P        ZNE 03 54 20       18
        KRP   P        ZNE 03 54 39.9J    21 -0.7I                    5.8
        GNZ   P        ZE  03 54 42.0     21 -0.3I                    6.2
        MNG   P        Z   03 54 59.4     23
        WEL   P        Z   03 55 07.7     24 -0.8I                    5.7
        COB   P        Z   03 55 10.6     24
              ES       Z      58 17
        MJZ   P        ZNE 03 55 39.1     28 -1.09                    5.4
        MSZ   P        Z   03 55 52.8     29 -0.91                    5.6
        MNW   P        Z   03 56 03.2     30 -0.73                    5.9
        SBA   P        Z   03 59 55.8     61 -1.33                    5.0

AUG 15  AFI   P        ZNE 05 27 57

AUG 15  AFI   P        Z   08 29 42
              S        ZNE    30 20

AUG 15  AFI   IP       Z   09 32 38.5J       -0.6?
              S        ZNE    59

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 15  10 21 53.2    17.7S 173.0W  33KM  4.8  TONGA
                         H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   10 24 14.5       9
        AFI   P        ZNE 10 22 45        4
              S        ZNE    23 30
              T(MAX)   ZNE    28 42
        RAR   P        ZNE 10 24 46.0      13
              E        Z      56.5
        GNZ   EP       ZNE 10 26 50        22
        KRP   P        ZNE 10 26 53.2      23 -0.5I                    5.8
        MNG   P        Z   10 27 15.2      25
              ES       Z      31 43
        MJZ   EP       ZNE 10 28 03.5      30
        MSZ   EP       Z   10 28 17.8      31
        SBA   P        ZNE 10 32 08.4      61 -1.4I                    5.8

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 15  17 15 51.3    10.1S 161.4E  79KM  5.1  SOLOMON IS
                         H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP       Z   17 22 35       33
        SBA   EP       Z   17 26 43       68

AUG 15  SBA   EP       Z   17 33 45

AUG 15  RAO   IP       Z   20 07 53.6J
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          S       Z      08 05
     FELT RAOUL IS MM II

AUG 15  SBA   P       Z   20 19 27.3

AUG 15  AFI   P       Z   21 10 41
              S       ZNE     59

AUG 15  SBA   P       ZNE 21 58 40

AUG 16  RAO   P       Z   01 03 37.2
              S       Z       55.5

AUG 16  AFI   P       Z   05 53 26
              S       ZNE     54 13

          H  M   S      EPICENTRE    DEPTH  MAG
AUG 16   11 25 53.9    51.9S 139.6E   33KM  5.1  S. OF, AUSTRALIA
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNW   P       Z   11 30 21        19
         MSZ   P       Z   11 30 27.6      20 -0.78                       5.4
               I(*PP)  Z       36.1
         MJZ   P       ZNE 11 30 47        22 -0.55                       5.7
         MNG   EP      ZNE 11 31 32.5      27
         SBA   P       ZNE 11 31 41        28 -1.00                       5.6
               S       ZNE     36 28
               L       ZNE     39
         NDF   EP      Z   11 34 11        45

AUG 16  AFI   P       Z   13 59 20
              S       ZNE 14 00 00
              T       ZNE     02 18

AUG 16  RAO   P       Z   21 27 43
              S       Z       28 03.5

          H  M   S      EPICENTRE    DEPTH  MAG
AUG 16   23 40 29.0     2.5S 138.9E   33KM  5.3  WEST IRIAN
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   P       Z   23 49 22        49
         MSZ   P       Z   23 49 35.3      49 -0.94                       6.0
         MJZ   P       Z   23 49 40.7      50 -1.23                       5.8
         SBA   IP      ZNE 23 52 15.3      77 -0.99                       6.1

          H  M   S      EPICENTRE    DEPTH  MAG
AUG 17   03 15 34.8     6.8S 106.7E  101KM       JAVA
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA   P       Z   03 27 20.2      77
               E*PP    Z       41

AUG 17  KRP   EP      Z   03 46 37.5
        MNG   EP      Z   03 47 01

AUG 17  AFI   IP      Z   06 45 04.00
              S       ZNE     45

          H  M   S      EPICENTRE    DEPTH  MAG
AUG 17   14 50 51.0    14.0S  74.6W   14KM  5.4  PERU
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA   P       ZNE 15 03 14.3      82 -0.71                       6.5
               ES      N       13 44

AUG 17  KRP   P       Z   17 02 21.8
        MNG   P       Z   17 02 38
        MSZ   P       Z   17 02 48
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	H M S		EPICENTRE	DEPTH	MAG									
AUG 17	17 29 52.1		11.1S 117.3E	33KM	5.4	FLORES REGION								
			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z 17 39 21		55								
	MJZ	P	ZNE 17 39 44.5		56	-1.18							6.0
	NDF	EP	Z 17 39 45		58								
	MNG	P	Z 17 39 49.5		59								
	SBA	P	ZNE 17 41 11.0		71	-1.33							5.8
AUG 17	AFI	P	Z 19 00 47										
		S	ZNE 01 32										
AUG 17	AFI	P	Z 19 40 12										
		S	ZNE 57										
	H M S		EPICENTRE	DEPTH	MAG									
AUG 17	23 44 05.9		6.0S 152.9E	10KM	6.4	NEW BRITAIN								
			H M S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	IP	Z 23 49 48.0		27								
		I	Z 50 17.0										
	CRZ	EP	ZNE 23 50 49		34								
	AFI	P	Z 23 51 07		36								
		PCP	ZNE 56 40										
		S	ZNE 59 44										
		SCS	ZNE 24 01 00										
		LQ	ZNE 05										
	RAO	P	Z 23 51 08		36								
	KRP	P	ZNE 23 51 24.7		38	0.28							7.0
		PCP	ZNE 53 42										
		ES	ZNE 57 18										
		SCS	NE 24 01 39.5										
	COB	P	Z 23 51 36.3		39	0.03							6.8
		PCP	Z 53 45										
	MNG	IP	Z 23 51 40.90		40	-0.15							6.6
		PCP	Z 53 48										
	WEL	P	ZNE 23 51 44		40	0.05	34	10					6.9
		PP	Z 53 36				90	14					7.1
		S	ZNE 58 03						88	15	92	21	7.4
		E	NE 38										
		SS	ZNE 24 00 50										
		L	ZNE 01				295	19	229	18	211	19	
	MSZ	P	Z 23 51 48.4		41	-0.18							6.6
	MJZ	EP	ZNE 23 51 50.3		41	-0.50							6.3
		PCP	ZNE 53 50.3										
		ES	NE 58 02										
	RAR	P	Z 23 52 49.45		48		31	9					7.2
		S	ZNE 59 52								71	10	7.5
		LQ	NE 24 03										
		LR	ZNE 07										
	CBZ	EP	Z 23 52 49		48								
	SBA	IP	ZNE 23 55 33.00NW		72	0.09	14	10					7.2
		IPCP	Z 59.4										
		EPP	ZNE 59 08				10	11					6.9
		S	ZNE 24 05 00						20	15	36	12	7.2
		LQ	NE 18										
		LR	ZNE 22				37	20	28	18	27	17	
		EPKPPKP	ZNE 23 06										
AUG 17	NDF	P	Z 23 55 37.5			-1.41							
	KRP	P	ZN 23 57 10.9			-1.23							
		PCP	Z 59 25.4										
	COB	P	Z 23 57 22			-1.50							
		PCP	Z 59 28										
	MNG	IP	Z 23 57 26.80			-1.23							
	WEL	P	Z 23 57 29.1			-1.37							
	MSZ	EP	Z 23 57 34.5										
		(*PP)	Z 51										

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        MJZ  EP       ZNE 23 57 41
             PCP      Z      59 34.8
        RAR  EP       Z   23 58 23.5

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 18  00 02 20.8    5.9S 153.0E   48KM  5.3  NEW IRELAND
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP       Z   00 08 07.5     27
        KRP  P        Z   00 09 36.5     38
        COB  P        Z   00 09 47       39 -0.63                      6.2
        MNG  P        Z   00 09 51.7     40
        MSZ  P        Z   00 10 10.5     41
        SBA  EP       ZNE 00 13 45       72 -1.07                      6.0

AUG 18  KRP  P        Z   00 29 51.2

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 23  00 23 48.2    6.0S 152.6E    8KM  6.0  NEW BRITAIN
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  P        Z   00 29 32.3     27
        KRP  P        ZNE 00 31 08.9     38 -0.92                      5.8
        COB  P        Z   00 31 19       39
        MNG  IP       Z   00 31 24.2D    40 -1.01                      5.7
        MSZ  P        Z   00 31 31.5     41 -1.16                      5.6
        MJZ  P        Z   00 31 33       41
        RAR  P        ZNE 00 32 33.3     48 -1.26                      5.7
        SBA  IP       ZNE 00 35 15.6D    72 -0.73                      6.5

AUG 18  KRP  P        Z   00 34 49.7        -1.56
        COB  P        Z   00 35 00.5
        MNG  EP       Z   00 35 04
        MSZ  EP       Z   00 35 12

AUG 18  SBA  P        ZNE 00 55 32.6
         E(PCP)       Z      58 27.5

AUG 18  SBA  EP?      Z   01 00 43

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 18  01 12 02.5    6.0S 152.8E   35KM  5.6  NEW BRITAIN
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP       Z   01 17 44       27
        KRP  P        Z   01 19 21       38 -1.04                      5.8
             E        Z          28.5
        COB  E        Z   01 19 39.3     39
        MNG  EP       Z   01 19 35.4     40
             E        Z          44.3
        MSZ  EP       Z   01 19 42.5     41
        SBA  P        ZNE 01 23 27       72 -1.41                      5.7

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 18  01 34 34.2    59.2S  25.1W   59KM  5.1  SOUTH SANDWICH IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  P        ZNE 01 42 31       43 -1.45                      5.4
             EPCP     ZNE    44 12
        MSZ  P        Z   01 46 15.4     76 -1.26                      5.7
        COB  EP       Z   01 46 31.5     79
        KRP  P        Z   01 46 48.2     82 -1.09                      6.0

         H  M  S      EPICENTRE    DEPTH  MAG
AUG 18  01 51 00.1    6.1S 153.0E   18KM  4.8  NEW BRITAIN
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  P        Z   01 58 17.4     39
        COB  EP       Z   01 58 28.5     39
        MNG  IP       Z   01 58 33.9D    40 -1.31                      5.4
        MSZ  P        Z   01 58 40       41
        SBA  EP       Z   02 02 18.3     72
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	H M S	EPICENTRE	DEPTH	MAG								
AUG 18	05 12 39.0	6.3S 152.6E	21KM	4.9	NEW BRITAIN							
		H M S	DIR	DIS	LG AMP/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB EP	Z 05 20 09		39								
	MNG P	Z 05 20 12.8		40								
	MSZ P	Z 05 20 21.3		40								
	SBA P	Z 05 23 05.4		72	-1.56							5.6
	H M S	EPICENTRE	DEPTH	MAG								
AUG 18	06 20 39.6	6.3S 152.8E	33KM	4.4	NEW BRITAIN							
		H M S	DIR	DIS	LG AMP/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG P	Z 06 28 11		40								
	E	Z 42.8										
	H M S	EPICENTRE	DEPTH	MAG								
AUG 18	08 25 37.8	6.1S 152.5E	22KM	5.1	NEW BRITAIN							
		H M S	DIR	DIS	LG AMP/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP E(P)	Z 08 32 37		38								
	MNG EP	Z 08 33 14.5		40								
	MSZ EP	Z 08 33 30.5		41								
	SBA EP	Z 08 37 04		72	-1.44							5.7
	H M S	EPICENTRE	DEPTH	MAG								
AUG 18	10 19 32.2	6.2S 152.6E	9KM	5.1	NEW BRITAIN							
		H M S	DIR	DIS	LG AMP/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG P	Z 10 27 08.2		40								
	MSZ EP	Z 10 27 16		41								
	H M S	EPICENTRE	DEPTH	MAG								
AUG 18	12 27 36.5	6.3S 152.8E	15KM	4.8	NEW BRITAIN							
		H M S	DIR	DIS	LG AMP/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG EP	Z 12 35 10.5		40								
	SBA P	Z 12 39 02.3		72	-0.94							6.2
AUG 18	AFI (S)	NE 14 11 24										
	NDF P	Z 14 11 30										
	E	Z 12 22										
	KRP EP	Z 14 14 02										
	MNG EP	Z 14 14 22.5										
	SBA EP	Z 14 18 57.3										
	E	ZNE 20 11.2										
AUG 18	MSZ P	Z 15 30 04										
AUG 18	NDF P	Z 16 06 27										
	MNG P	Z 16 08 17.3										
	ES	Z 11 08										
	COB P	Z 16 08 28										
	SBA EP	Z 16 13 46.6										
AUG 18	AFI (P)	Z 16 20 10										
	S	NE 21 16										
	SBA P	Z 16 28 46.5										
	H M S	EPICENTRE	DEPTH	MAG								
AUG 18	18 19 32.1	6.0S 152.3E	45KM	4.8	NEW BRITAIN							
		H M S	DIR	DIS	LG AMP/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P	Z 18 30 54.2		72								
AUG 18	AFI P	Z 20 46 16										
	S	ZNE 47 46										
	KRP P	Z 20 48 19.2										
	SBA P	ZNE 20 53 35.9			-1.41							
AUG 18	MNG P	Z 21 35 59.6										
AUG 18	MSZ P	Z 21 41 02.5										

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          H  M  S       EPICENTRE    DEPTH  MAG
AUG 18   22 59 34.7     6.2S 152.3E   19KM  4.6  NEW BRITAIN
                             H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNG   EP        Z   22 17 10        40

AUG 19   SBA   EP        Z   03 31 52

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 19   03 39 04.6     6.2S 153.2E   15KM  5.0  NEW BRITAIN
                             H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   EP?       Z   03 44 45        26
         KRP    P        ZNE 03 46 21.7      38 -1.15                       5.6
                PCP      Z      48 38.5
         MNG    P        Z   03 46 37.3      40 -1.21                       5.5
                *PP      Z      47.3
         MSZ    P        Z   03 46 46        40
         SBA    P        ZNE 03 50 30.4      72

AUG 19   KRP    P        Z   06 35 50.3
         MNG    P        Z   06 36 06.8
         MSZ   EP        Z   06 36 15

AUG 19   MSZ    P        Z   06 39 18.7

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 19   12 42 31.9     21.5S 177.0W 318KM  4.4  FIJI REGION
                             H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF    P        Z   12 44 06.5       6
         RAO  E(S)       Z   12 45 45         8
         AFI    P        Z   12 44 25         9
                S        ZNE    45 53
         WTZ   EP        Z   12 46 12.5      17
         KRP   EP        Z   12 46 17        18
         GNZ    P        Z   12 46 20.2      18
                ES       ZNE    49 19.5
         MNG   EP        Z   12 46 41        20
                ES       Z      50 11
         COB   EP        Z   12 46 55.5      21 -0.99                       5.3
         MJZ   EP        Z   12 47 37        25
         MSZ   EP        Z   12 47 45        26
         SBA  E(P)       Z   12 51 48        57

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 19   16 56 14.9     5.2S 134.1E   33KM  6.1  ARAFURA SEA
                             H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ    P        Z   16 15 03.5       49
                *PP      Z      17
         COB    P        Z   16 15 05        50
                *PP      Z      19.5
         MJZ    P        Z   16 15 09.3      50 -1.09                       5.9
         MNG    P        Z   16 15 15.3      51
         SBA    P        ZNE 16 17 53.4      75
                *PP      ZNE    18 08.3

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 19   16 30 59.1     2.5S 140.1E   33KM  4.7  WEST IRIAN
                             H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   EP        Z   16 39 35        48
         MNG   EP        Z   16 39 47        50
         SBA   EP        ZNE 16 42 48        77

AUG 19   NDF    P        Z   17 23 26.0
             E(S)        Z      24 44
         AFI    P        Z   17 24 01
                S        ZNE    25 42
         RAR   EP        Z   17 24 50
         KRP    P        Z   17 25 25.3
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        WTZ   P        Z   17 25 30.9
        MNG   EP       Z   17 25 55
        MJZ   EP       Z   17 26 39.5
        MSZ   EP       Z   17 26 50.5
        MNW   EP       Z   17 26 57.5
        SBA   P        Z   17 30 53.3

AUG 19  WTZ   P        Z   17 32 46.2
              ES       Z      54 45
        GNZ   EP       Z   17 32 50.3
              ES       Z      54 54
        KRP   P        Z   17 32 51.8
        TRZ   ES       Z   17 55 20.5
        MNG   P        Z   17 33 14
              ES       Z      55 43
        MSZ   EP       Z   17 54 22.5

AUG 19  KRP   EP       Z   18 09 10
        MNG   EP       Z   18 09 35
              ES       Z      12 14
        COB   P        Z   18 09 48.7
        SBA   P        Z   18 14 16
              E(*PP)   Z      50

AUG 19  SBA   P        Z   19 12 55.6

AUG 19  KRP   EP       Z   19 25 06.5
        MNG   P        Z   19 25 27.1
        COB   P        Z   19 25 40.1
        MSZ   EP       Z   19 26 25

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 19  23 35 17.0    30.7N 141.7E   27KM  4.7  S. OF HONSHU
                                H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   23 46 51.6      75
              E*PP     Z      47 01
        MNG   P        Z   23 47 13.2      75

AUG 20  MNG   EP       Z   00 19 56

AUG 20  KRP   P        Z   00 50 13.2
        MNG   P        Z   00 50 26.5

AUG 20  RAR   EP       ZNE 00 53 27
              ES       ZNE    55 56
        MNG   EP       Z   00 55 13.5
              ES       Z      58 34
        SBA   P        Z   01 00 34.3
              E        Z      01 07

AUG 20  AFI   P        Z   00 58 15
              S        ZNE    36

AUG 20  SBA   P        ZNE 02 03 25.2

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 20  02 59 57.9    49.5N  48.2E    0KM  5.7  N. KAZAKHSTAN
                                H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        COB   PKP      Z   03 19 31.3      141
        MJZ   PKP      Z   03 19 33       141
        SBA   IPKP     ZNE 03 19 32.1J     144
        RAR   PKP      Z   03 19 39       144

         H  M  S       EPICENTRE    DEPTH  MAG
AUG 20  05 10 23.2     1.3N 127.0E   57KM  5.2  HALMAHERA
                                H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   05 20 15.6J     59 -0.98                          6.2
        KRP   P        Z   05 20 22.1      59 -1.09                          6.1
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	MJZ	P	ZNE	05	20	22.0		59	-1.09									6.2
	MNG	P	Z	05	20	28.4		61	-1.16									6.0
	SBA	P	ZNE	05	20	38.7		82	-1.26									5.8
	H	M	S	EPICENTRE			DEPTH	MAG										
AUG 20	08	10	08.1	51.3N		161.6E	33KM	5.2	KAMCHATKA									
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EPKP	Z	08	29	28.5		129										
AUG 20	AFI	P	Z	09	54	09												
		S	ZNE			29												
	H	M	S	EPICENTRE			DEPTH	MAG										
AUG 20	10	09	10.8	38.7N		140.0E	25KM	5.9	HONSHU									
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	10	21	26.6D		83	-1.00									6.2
	MNG	EP	Z	10	21	44		85										
	MSZ	P	Z	10	21	54.4		87										
	MJZ	P	ZNE	10	21	55.1D		87	-1.06									6.2
	SBA	PKP	Z	10	27	54.8		117										
		E(PP)	ZNE		29	09												
AUG 20	SBA	P	ZNE	12	59	20.5												
	H	M	S	EPICENTRE			DEPTH	MAG										
AUG 20	16	39	32.3	7.6S		74.7W	147KM	4.6	E. PERU									
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	P	Z	16	52	09.8		88	-1.40									5.6
		E-PP	Z			48.3												
AUG 20	AFI	P	Z	21	23	35												
		S	ZNE			53												
AUG 21	AFI	IP	Z	05	16	56.0U												
		S	ZNE		17	12												
	H	M	S	EPICENTRE			DEPTH	MAG										
AUG 21	06	23	48.9	49.5N		147.0E	578KM	5.9	SEA OF OKHOTSK									
					H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	NDF	P	Z	06	34	18.2U		72										
		I	Z			19.3												
		E-PP	Z		36	27.5												
	AFI	PP	ZN	06	36	35		73										
		E	ZNE		37	24												
		S	ZNE		43	00												
	RAO	P	Z	06	35	22.1		84	-0.29									6.5
	RAR	P	ZNE	06	35	23.3U		85	0.76									7.5
		I	ZNE			24.7												
		-PP	Z		37	32												
		E-SP	Z		38	27												
	KRP	P	ZE	06	35	51.7U		91	-0.28									6.8
		I	ZE			52.7												
		E	Z		36	08.2												
		E-PP	Z		37	59.5												
		I	ZE		38	03.8												
		EPP	Z		39	30												
		SKS	E		45	29.2												
		ES	E		46	05.5												
	MNG	P	Z	06	36	00.6		93										
		-PP	Z		38	08.6												
		I	Z			12.4												
		E	Z			40.7												
		EPP	Z		39	53												
	MJZ	EP	ZNE	06	36	12.7		95										
		-PP	ZNE		38	24.3												
		EPP	Z		40	13												
		SKS	E		45	51												
	MSZ	P	Z	06	36	14.1		95										

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                *PP     Z        38 25.5
                PP      Z        40 09.8
          SBA   PKP2    ZNE 06 41 26.3     128
                !PKP    ZNE      48.3
                I       ZNE      49.2
                PP      Z        43 50.4
                SKP     ZNE      44 06.4
                I       Z        12.3
                PKS     N        45 13.3
                PPP     Z        46 52
                E       Z        47 41
                SKS     N        48 18
                SKKS    N        49 57.9
                PS      N        53 57
                SKKP    Z        54 24.1
                E       Z        55 48
                E       Z        57 55
                E       Z     07 17 28

AUG 21  MNG     P       Z     06 40 43.5
        MJZ     EP      Z     06 40 47
        MSZ     EP      Z     06 40 49.5

         H  M  S        EPICENTRE     DEPTH  MAG
AUG 21  08 47 05.4      5.8S 153.0E   35KM   5.3  NEW IRELAND
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF     EP      Z     08 52 45        27
        AFI     P       ZNE   08 54 01        36
                LR      ZNE   09 05
        KRP     P       Z     08 54 23.2      38 -0.98                      5.8
                *PP     ZE          35.6
                PCP     Z        56 38.5
                E*PPCP  Z           51.5
        MNG     P       Z     08 54 39.1      40 -1.16                      5.6
                *PP     Z           53.2
        MSZ     P       Z     08 54 48.6      41 -0.95                      5.8
                *PP     Z        55 01.0
        MJZ     P       ZNE   08 54 47        41 -1.13                      5.6
                *PP     ZNE      55 00.5
                PCP     Z        56 47.3
                *PPCP   Z        57 00.5
        SBA     P       ZNE   08 58 30.9D    72 -1.04                      6.0
                *PP     Z           43.8

         H  M  S        EPICENTRE     DEPTH  MAG
AUG 21  09 35 04.3      6.1S 153.1E   29KM   4.7  NEW BRITAIN
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG     P       Z     09 42 36.7      40
        MSZ     P       Z     09 42 46.8      41

         H  M  S        EPICENTRE     DEPTH  MAG
AUG 21  10 48 02.4      29.9N 142.1E  33KM   4.3  S. OF HONSHU
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG     P       Z     10 59 54.3      77

AUG 21  AFI     P       Z     12 13 42
                S       ZN       14 15

AUG 21  RAO     P       Z     19 22 58.0
              E(S)      Z        23 15

AUG 21  RAO     P       Z     20 22 54.0
                S       Z        23 12

AUG 21  RAO     P       Z     20 26 49.2
                S       Z        27 07
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	H M S	EPICENTRE	DEPTH	MAG									
AUG 21	21 57 17.2	8.3S 105.9E	62KM	5.3	S. OF JAVA								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 22 07 49.7		64								
	MJZ P	ZNE 22 07 59.8		65	-1.09							6.0
	KRP P	ZE 22 08 18.5		69								
	GNZ P	Z 22 08 18.8		69								
	MNG P	Z 22 08 19.8		69								
	SBA P	ZNE 22 08 59.6		76	-1.18							5.8
AUG 21	AFI (P)	ZNE 22 09 28											
AUG 22	AFI IP	Z 00 00 10.00											
	S	ZNE 38											
AUG 22	MNG P	Z 03 09 10.1											
	H M S	EPICENTRE	DEPTH	MAG									
AUG 22	05 29 37.9	23.2N 144.2E	33KM	4.9	VOLCANO IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	ZNE 05 40 34.0		68								
	MNG P	Z 05 40 29.8		70								
	MSZ P	Z 05 40 58.2		71								
	MJZ P	ZNE 05 40 55.0		71								
	H M S	EPICENTRE	DEPTH	MAG									
AUG 22	06 21 44.6	18.7N 145.1E	131KM	4.7	MARIANA IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 06 31 57.3		63								
	MNG P	Z 06 32 10.2		63								
	MSZ P	Z 06 32 18.7		66	-1.21							5.8
	MJZ P	Z 06 32 18.5		67								
	H M S	EPICENTRE	DEPTH	MAG									
AUG 22	07 22 46.4	25.9S 69.2E	33KM	5.0	S. INDIAN OCEAN								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P	ZNE 07 33 35.5		66								
	MSZ P	Z 07 34 43.5		78								
	MNG P	Z 07 35 19		85								
AUG 22	AFI P	Z 09 08 41											
	S	ZNE 10 16											
	H M S	EPICENTRE	DEPTH	MAG									
AUG 22	09 50 50.0	6.1S 153.0E	15KM	5.2	NEW BRITAIN								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF P	Z 09 56 30.2		27								
	KRP P	ZNE 09 58 07.5		38								
	GNZ P	ZNE 09 58 20.2		40								
	MNG IP	Z 09 58 22.90		40	-1.03							5.7
	MSZ P	Z 09 58 30.1		41								
	MJZ P	ZNE 09 58 31.0		41								
	SBA P	ZNE 10 02 14.5		72	-1.44							5.7
	H M S	EPICENTRE	DEPTH	MAG									
AUG 22	11 48 02.1	6.0S 153.1E	33KM	4.8	NEW BRITAIN								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	ZNE 11 55 18.8		38								
	MNG P	Z 11 55 33.6		40								
	MSZ P	Z 11 55 42.9		41								
	SBA P	ZE 11 59 26		72								
	H M S	EPICENTRE	DEPTH	MAG									
AUG 22	12 24 26.8	7.2S 154.8E	38KM	4.9	SOLOMON IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF P	Z 12 29 54.5		24								
	KRP P	ZNE 12 31 36.8		36								

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         MNG    P        Z   12 31 50.2      38
         MSZ    P        Z   12 31 52.9      39
         SBA    P        Z   12 35 45.2      71

AUG 22   AFI    P        Z   13 56 05
                S        ZNE      25

          H  M  S        EPICENTRE    DEPTH  MAG
AUG 22   14 11 38.4      3.8S 136.2E   36KM  4.6  WEST IRIAN
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNG    P        Z   14 20 41.2      51

          H  M  S        EPICENTRE    DEPTH  MAG
AUG 22   14 20 19.4      50.2N 156.7E  63KM  5.2  KURIL ISL.
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP    P        Z   14 33 11.3      89
                *PP      Z         28
         SBA    PKP      Z   14 39 18.5     128

          H  M  S        EPICENTRE    DEPTH  MAG
AUG 22   16 07 39.7      6.9S 154.8E   53KM  4.4  SOLOMON. IS.
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP    P        ZNE 16 14 49.8      36
         MNG    P        Z   16 15 14.2      38

AUG 22   SBA    P        Z   17 29 53.8

AUG 23   GNZ    P        ZNE 00 00 59.5
                S        ZNE      01 42
         KRP    P        ZNE 00 00 59.6U
         CNZ    P        Z   00 01 10.0
                ES       Z        03 07
         MNG    P        Z   00 01 21
                S        Z        03 27
         COB    P        Z   00 01 36.7
                S        Z        03 57
         MJZ    EP       Z   00 02 13
         MSZ    P        Z   00 02 31.0

AUG 23   MNG    EP       Z   01 35 28.2

AUG 23   MNG    P        Z   09 05 23.9
         SBA    P        ZNE 09 06 35.5

AUG 23   MNG    EP       Z   09 52 46.5
         SBA    P        Z   09 55 02.5

          H  M  S        EPICENTRE    DEPTH  MAG
AUG 23   11 46 56.2      6.2S 153.1E   20KM  4.9  NEW BRITAIN
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNG    P        Z   11 54 29.2      40
         MSZ    P        Z   11 54 40.5      40

          H  M  S        EPICENTRE    DEPTH  MAG
AUG 23   11 59 52.0      1.8N 127.3E  106KM  5.3  HALMAHERA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ    IP       Z   12 09 40.5U     59 -0.74                    6.4
         KRP    P        ZNE 12 09 47.0      60
         MJZ    P        ZNE 12 09 48.2U     60 -0.72                    6.5
                *PP      Z        10 09.8
         MNG    P        Z   12 09 52.5      61
         SBA    P        ZNE 12 12 04.4      82 -1.16                    5.8

          H  M  S        EPICENTRE    DEPTH  MAG
AUG 23   14 00 53.1      6.8S 154.7E   45KM  4.8  SOLOMON. IS.
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNG    P        Z   14 08 08.2      38
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	H M S	EPICENTRE	DEPTH	MAG								
AUG 23	14 18 15.7	29.1S 13.2W	33KM	4.8	S. ATLANTIC RIDGE							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P	Z 14 29 47.2		73								
AUG 23	NDF P	Z 18 02 37.2										
AUG 23	MNG EP	Z 18 25 38										
AUG 23	AFI P	ZNE 23 39 09										
	S	ZNE 40 55										
	SBA P	Z 23 45 53.9			-1.30							
	H M S	EPICENTRE	DEPTH	MAG								
AUG 24	08 34 25.3	6.3S 153.1E	15KM	4.3	NEW BRITAIN							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG P	Z 08 41 57.2		40								
AUG 24	SBA EP	Z 10 00 18										
	H M S	EPICENTRE	DEPTH	MAG								
AUG 24	10 03 05.8	6.3S 153.1E	33KM		NEW BRITAIN							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG P	Z 10 10 36		40								
	MSZ P	Z 10 10 46		40								
AUG 24	MNG P	Z 12 21 06.7										
	H M S	EPICENTRE	DEPTH	MAG								
AUG 24	12 52 00.1	5.0S 153.4E	58KM		NEW IRELAND							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 12 59 14.5		38								
	MNG P	Z 12 59 34.3		41	-1.38							5.4
	MSZ P	Z 12 59 43.4		42	-1.32							5.4
	SBA P	Z 13 03 26.6		73	-1.50							5.5
	H M S	EPICENTRE	DEPTH	MAG								
AUG 24	14 10 58.2	6.4S 153.2E	10KM	4.6	NEW BRITAIN							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ P	Z 14 18 29		39								
	MNG P	Z 14 18 31.1		39								
	H M S	EPICENTRE	DEPTH	MAG								
AUG 24	14 14 56.4	19.1S 169.7E	268KM	5.3	NEW HEBRIDES							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 14 19 08		19								
	MNG P	Z 14 19 32.1		22								
	COB P	Z 14 19 35.4		22								
	SBA P	ZNE 14 24 30.3		59	-1.29							5.3
	H M S	EPICENTRE	DEPTH	MAG								
AUG 24	14 19 36.4	5.4S 102.7E	68KM		S. SUMATRA							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ P	Z 14 30 46.1		70								
	COB EP	Z 14 30 54		71								
	CNZ P	Z 14 31 04		73								
	SBA P	ZNE 14 31 37.5		79	-1.30							5.7
	PCP	Z 45.2										
	H M S	EPICENTRE	DEPTH	MAG								
AUG 24	14 50 24.4	6.1S 152.6E	21KM	4.9	NEW BRITAIN							
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB EP	Z 14 56 43		39								
	SBA EP	Z 15 01 49		72								

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 24	16	20	02.9	8.6S	123.9E	33KM	5.1	FLORES REGION								
				H	M	S	DIR	DIS	LGA/T	AZ	TZ	AN	TN	AE	TE	MAG
	COB	EP		Z	16	29 24.5		54								
	KRP	EP		Z	16	29 31.7		55								
	GNZ	P		Z	16	29 34.8		55	+1.29							5.8
	SBA	P		ZNE	16	31 28.0		73								

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 24	21	49	32.9	8.1S	127.6E	191KM	4.8	TIMOR								
				H	M	S	DIR	DIS	LGA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		Z	22	00 45.4		73								

AUG 25	AFI	P		Z	03	43 12										
		S		ZNE		44 05										

AUG 25	AFI	P		Z	03	48 26										
		S		ZNE		49 12										

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 25	07	50	17.8	18.8S	168.7E	118KM	4.7	NEW HEBRIDES								
				H	M	S	DIR	DIS	LGA/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP		Z	07	55 10		23								
	SBA	EP		Z	08	00 08.3		59								

AUG 25	RAO	P		Z	09	54 10.2										
		I		Z		13.9										
		ES		Z		55 14										
	NDF	(P)		Z	09	54 55.5										
	KRP	P		Z	09	55 36										
	GNZ	EP		Z	09	55 35.5										
		ES		Z		57 45.5										
	MNG	EP		Z	09	55 58.3										
		ES		Z		58 30										

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 25	10	57	07.5	10.7S	161.1E	48KM	5.0	SOLOMON IS								
				H	M	S	DIR	DIS	LGA/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P		Z	11	01 08.6		17								
	KRP	EP		Z	11	03 13.2		30								
	MNG	EP		Z	11	03 43		32								
	MJZ	P		Z	11	03 50.4		34								
		E-SP		Z		04 09.1										
	SBA	EP		ZNE	11	08 03.5		67								
		E-PP		Z		18.5										

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 25	11	40	53.1	17.0S	177.9W	436KM	4.1	FIJI REGION								
				H	M	S	DIR	DIS	LGA/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P		Z	11	42 12.3		5								
	AFI	P		Z	11	42 29.5		7	-0.73							
		S		ZNE		43 47										
	CRZ	P		Z	11	44 51		19								
	KRP	P		ZNE	11	45 11.3		22	-0.92							5.5
	GNZ	P		Z	11	45 13		22								
	MNG	P		Z	11	45 31.3		24								
	COB	P		Z	11	45 42.9		25								
	MNW	P		Z	11	46 35.2		31	-0.92							5.5

	H	M	S	EPICENTRE		DEPTH	MAG									
AUG 25	14	57	57.1	33.4S	179.1W	111KM		S. OF KERMADEC IS								
				H	M	S	DIR	DIS	LGA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P		Z	14	09 00.8		4								
		I		Z		01.7										
		S		Z		07 48										
	GNZ	P		ZNE	14	09 21.4		6								
		S		ZNE		10 24										

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       CRZ    P        ZNE 14 09 36.2        7
              I        ZNE       47.2
       MNG    P        Z   14 09 55.1        8
              ES       Z      11 20
       MJZ    P        ZNE 14 10 58.6       13
              S        ZNE    13 16
       MSZ    EP       Z   14 11 20.5       15
              ES       Z      13 55
       NDF    P        Z   14 11 35.9       16
       AFI    P        Z   14 12 32         21
              S        ZNE    16 06
              (T)      ZNE    31 50
       RAR    EP       ZNE 14 12 41.5       21
              ES       ZNE    16 28.5
              ET       ZNE    33 07
       SBA    P        ZNE 14 16 10.1       43 =1.00                          5.9
              E(*SP)   Z      45.3
              EPCP     Z   17 48

        H  M  S      EPICENTRE    DEPTH  MAG
AUG 25 16 53 06.0   55.9S  27.4W  33KM  5.3  SOUTH SANDWICH IS
                          H  M  S  DIR DIS LG*A/T  AZ TZ  AN TN  AE TE  MAG
       SBA    P        ZNE 17 01 30.3       46 =1.27                          5.6

        H  M  S      EPICENTRE    DEPTH  MAG
AUG 25 18 27 27.3   5.8S 148.8E 145KM  4.5  NEW BRITAIN
                          H  M  S  DIR DIS LG*A/T  AZ TZ  AN TN  AE TE  MAG
       KRP    P        Z   18 34 52.4       40
       COB    P        Z   18 35 00.9       41
       MNG    IP       Z   18 35 07.2U      42 =1.13                          5.5
       MSZ    EP       Z   18 35 11         42

AUG 25 RAO    EP       Z   20 42 12
              ES       Z      43 01

        H  M  S      EPICENTRE    DEPTH  MAG
AUG 25 22 10 23.4   6.1S 152.6E   33KM  5.1  NEW BRITAIN
                          H  M  S  DIR DIS LG*A/T  AZ TZ  AN TN  AE TE  MAG
       SBA    EP       Z   22 21 47.3       72

AUG 25 SBA    P        ZNE 22 29 36.1

AUG 25 RAO    P        Z   23 37 47.9
              ES       Z      38 56
       KRP    P        Z   23 39 21

        H  M  S      EPICENTRE    DEPTH  MAG
AUG 26 00 06 53.2   30.6S 177.9W 118KM  4.7  KERMADEC IS
                          H  M  S  DIR DIS LG*A/T  AZ TZ  AN TN  AE TE  MAG
       RAO    P        Z   00 07 18.3        1
              I(S)     Z      42.1
       GNZ    EP       Z   00 08 47.5        9
              S        ZNE    10 12
       CRZ    P        ZNE 00 08 52.5        9
       KRP    EP       Z   00 08 56.5        9
       MNG    EP       Z   00 09 21         11
              ES       Z      11 08
       COB    S        Z   00 11 48.5       13

        H  M  S      EPICENTRE    DEPTH  MAG
AUG 26 02 39 02.2   59.6S  26.1W  33KM  4.9  SOUTH SANDWICH IS
                          H  M  S  DIR DIS LG*A/T  AZ TZ  AN TN  AE TE  MAG
       SBA    P        ZNE 02 46 57.3U      43 =0.96                          5.8
              PCP      Z      48 47.6
       MSZ    P        Z   02 50 44.4       75
       COB    EP       Z   02 51 00         79
       KRP    (P)      Z   02 51 15.2       81
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AUG 26	RAO	P	Z	04	13	22.8													
		ES	Z		14	39.5													
	NDF	(P)	Z	04	13	33.8													
	AFI	P	Z	04	14	31													
		S	ZNE		16	43													
	GNZ	EP	Z	04	14	55													
	KRP	P	ZNE	04	14	55.3													
	MNG	P	Z	04	15	16.6													
		ES	Z		18	09													
	COB	P	Z	04	15	28.3													
	MJZ	P	Z	04	16	00.2													
	SBA	E(P)	Z	04	20	28.6													

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 26	04	39	15.2	3.1S	136.0E	33KM	5.3	WEST IRIAN

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	E.PP	Z	04	48	21.5		50							
		E	Z			40.2									
	KRP	P	Z	04	48	09.7		50							
	MJZ	EP	Z	04	48	15		51							
	MNG	P	Z	04	48	18.8		52							
	SBA	P	ZNE	04	51	03.6D		76	-1.20						5.9

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 26	06	21	13.2	15.3S	167.4E	121KM	5.9	NEW HEBRIDES

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	06	23	37.1		10							
		E	Z			44.3									
	KRP	P	Z	06	26	16.3		24							
	GNZ	P	Z	06	26	29.1		25	-0.72						5.7
	MNG	P	Z	06	26	38.2		26							
	SBA	P	Z	06	31	27.2		63	-1.33						5.7
AUG 26	SBA	EP	ZNE	06	39	02									
		E	Z			37.5									

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 26	09	38	20.3	4.9S	145.7E	34KM	4.4	BISMARCK SEA

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP	Z	09	46	28		44							

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 26	12	40	22.8	21.5S	174.0W	33KM	4.4	TONGA

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	12	42	11		8							
		S	ZNE		43	34									
		L	ZNE		44										
		(T)	ZNE		50	00									
	RAO	EP	Z	12	42	23		8							
		S	Z		43	56									
	NDF	P	Z	12	42	32.8		9							
	RAR	EP	ZNE	12	43	24		13							
		ES	ZNE		45	47									
	GNZ	EP	Z	12	44	39.3		18							
	COB	P	Z	12	45	25.6		23							
	MJZ	EP	Z	12	45	56.5		26							
	MSZ	P	Z	12	46	18		29							
	SBA	P	ZNE	12	50	09.3		57	-1.37						5.8

	H	M	S	EPICENTRE		DEPTH	MAG	
AUG 26	13	25	48.2	22.1S	169.9E	42KM		LOYALTY IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	13	27	52		8							
	MJZ	P	Z	13	30	29.5		22							
	SBA	P	ZNE	13	35	23		56	-1.31						5.8

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          H  M  S       EPICENTRE    DEPTH  MAG
AUG 26   21 43 09.2    26.2S 176.2W   48KM  4.2  S. OF FIJI
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO    P       Z    21 43 59.2       3
                S       Z       44 41
         NDF    P       Z    21 46 13.7      10
         RAR    EP      ZNE  21 46 37        16
                ES      ZNE     49 13
                ET      ZNE  22 01 42
         MNG    EP      Z    21 46 50.5      16
                ES      Z       49 31
         MJZ    EP      Z    21 48 00        21
         SBA    P       ZNE  21 52 18.4      52 -1.56                        5.5
                E       Z       27.8

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 26   23 38 31.4    10.4S 160.6E   96KM  4.9  SOLOMON IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF    P       Z    23 42 26.1      18
         MNG    EP      Z    23 45 08        33

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 27   06 35 43.4    16.9S 177.4W  432KM  4.1  FIJI REGION
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF    IP      Z    06 37 07.7U      5
         AFI    P       Z    06 37 10         6
                S       ZNE     38 23
         RAO    EP      Z    06 39 26        12
                ES      Z       40 38
         WTZ    P       Z    06 39 58        22
         KRP    IP      ZNE  06 40 03.1U     22 -0.88                        5.5
         GNZ    P       ZN   06 40 03.5      22 -0.59                        5.8
         MNG    EP      Z    06 40 22.6      24
         MSZ    EP      Z    06 41 17        30
         MNW    P       Z    06 41 27.2      31 -0.83                        5.6
         SBA    P       ZNE  06 45 18.2      61 -1.45                        5.1

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 27   20 05 03.2     6.1S 152.5E   57KM        NEW BRITAIN
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MNG    P?      Z    20 12 25.2      40

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 27   21 14 37.1     6.4N 125.9E  145KM  4.9  MINDANAO
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ    P       Z    21 24 53.3      63

AUG 28   RAO    EP      Z    01 41 11.3
                ES      Z       58.5
         WTZ    P       Z    01 41 55.1
                ES      Z       43 19
         GNZ    P       Z    01 41 58
                S       ZNE     43 25
         KRP    EP      Z    01 42 02
         MNG    EP      Z    01 42 24
                I       Z       25.1
                ES      Z       44 07
         COB    ES      Z    01 44 43.5

AUG 28   AFI    P       Z    02 06 27
                S       ZNE     54

AUG 28   RAO    IP      Z    02 13 10.2D
                S       Z       21.2
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	H	M	S	EPICENTRE		DEPTH	MAG								
AUG 28	02	19	00,5	24,9S	136,3E	59KM	5,6	NORTHERN AUSTRALIA							
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
		EP		Z	02	25	25										
	MJZ	P		ZNE	02	25	35,3		34								
	KRP	P		ZNE	02	25	55,3		36	-0,51							6,4
		PCP		Z		28	21,3										
	MNG	P		Z	02	25	57,2		36	-1,05							5,8
	GNZ	P		ZNE	02	26	11,8		38	-0,38							6,5
	NDF	P		Z	02	26	21		39								
	RAO	P		Z	02	26	37,6		41	-0,20							6,6
	AFI	P		ZNE	02	27	50		50								
		(L)		ZE		46											
	SBA	IP		ZNE	02	28	11,8		55	-1,01							6,1

	H	M	S	EPICENTRE		DEPTH	MAG								
AUG 28	05	59	56,5	73,3N	55,1E	0KM	6,3	NOVAYA ZEMLYA							
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	PKP		Z	06	18	42,2		116								
	RAR	PKP		Z	06	18	58,8		124								
	RAO	PKP		Z	06	19	05,7		128								
	KRP	EPKP		ZNE	06	19	06,5		135								
		PKP2		ZNE			15										
		E		Z			20,4										
		PP		Z		21	47,3										
		PKS		E		22	47,5										
		SKKS		Z		30	43										
	MNG	EPKP		Z	06	19	08,5		137								
		PKP2		Z			20,1										
		E		Z			22,3										
		E		Z			50										
		PP		Z		21	56,5										
	WEL	PKP		ZNE	06	19	21,8		137								
	MSZ	PKP		Z	06	19	14,4		139								
		PKP2		Z			26,7										
		PP		Z		22	10										
	MJZ	EPKP		ZNE	06	19	13,5		139								
		E		ZNE			17,3										
		PKP2		ZNE			24,6										
		I		ZNE			27,2										
		PKS		NE		23	02,0										
	CBZ	PKP		Z	06	19	35,7		146								
		I		Z			37,4										
	SBA	IPKP		ZNE	06	19	59,3		163								
		IPKP2		ZNE		20	52,9										
		PP		Z		24	39										
		SKS		Z		28	29,5										
		E		Z		29	22,3										

	H	M	S	EPICENTRE		DEPTH	MAG								
AUG 28	06	27	03,5	11,4S	116,9E	33KM		FLORES SEA							
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	P		ZNE	06	36	45		56								
	SBA	EP		ZNE	06	38	24,3		71								
AUG 28	NDF	P		Z	10	49	08,3										
	MNG	EP		Z	10	51	40,5										
	SBA	P		Z	10	56	43,4										
AUG 28	WTZ	P		Z	10	59	32										
		ES		Z	11	01	35										
	KRP	P		Z	10	59	36,5										
	GNZ	P		ZNE	10	59	37										
		S		ZNE	11	01	40										
	MNG	EP		Z	10	59	59										

		H	M	S	EPICENTRE	DEPTH	MAG									
AUG 28		13	48	37.9	18.1S 176.6W	33KM	5.1	FIJI REGION								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P		Z	13	50	05		6								
	AFI		P		Z	13	50	06		6								
			S		ZNE		51	16										
	KRP		EP		Z	13	53	15		21								
	SBA		P		ZNE	13	58	46.0D		60	-1.41							5.8
		H	M	S	EPICENTRE	DEPTH	MAG									
AUG 28		14	24	46.1	13.3N 120.6E	62KM	5.2	CENTRAL PHILIPPINES								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		P		Z	14	36	05.3		72								
			E*PP		Z			18										
	MJZ		P		ZNE	14	36	11.1		73	-1.23							5.8
			*PP		ZNE			24.1										
	MNG		EP		Z	14	36	26		74								
AUG 28	AFI		P		Z	14	28	08										
			S		ZNE			27										
		H	M	S	EPICENTRE	DEPTH	MAG									
AUG 28		15	21	01.8	51.4N 179.2W	45KM	5.5	ALEUTIAN IS								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P		Z	15	33	52.3U		89	-0.66							6.7
	MNG		P		Z	15	34	04.5		92								
	COB		P		Z	15	34	06.4		92								
	MJZ		EP		Z	15	34	18		95								
	SBA		ESKP		Z	15	43	26		129								
		H	M	S	EPICENTRE	DEPTH	MAG									
AUG 28		18	56	03.2	21.3S 174.5W	33KM	5.6	TONGA								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P		Z	18	59	50		9								
			S		ZNE	19	01	17										
			T		ZNE		07	40										
	NDF		P		Z	19	00	03.0U		8								
	RAO		P		Z	19	00	01.9		8								
			I		Z			04.1										
			S		Z		01	38										
	RAR		P		ZNE	19	01	01.5		14								
			ES		ZNE		03	22										
	KRP		EP		ZNE	19	02	21		19	-0.85							5.3
	MNG		P		Z	19	02	43.2		21								
			ES		Z		06	22										
	WEL		P		ZNE	19	02	53.2		22	-0.48							5.8
			S		ZNE		06	51.5										
			L		ZNE		09											
	MJZ		EP		ZNE	19	03	33		26	-0.96							5.5
			ES		ZNE		08	06										
	MSZ		P		Z	19	03	49.9		27								
	SBA		P		ZNE	19	07	51.4		57	-0.60							6.6
			S		ZNE		15	55						3	8			6.2
			SCS		E		17	48										
			ELQ		NE		23											
		H	M	S	EPICENTRE	DEPTH	MAG									
AUG 28		19	04	32.7	6.3S 153.0E	34KM	5.0	NEW BRITAIN								
					H	M	S	DIR	DIS	LG	A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P		Z	19	10	09		26								
	KRP		P		Z	19	11	46.7		38								
	MNG		P		Z	19	12	03.4		40	-1.26							5.5
	MSZ		P		Z	19	12	11.8		40								
	SBA		P		ZNE	19	15	55.6		72	-0.84							6.3
AUG 28	RAO		P		Z	19	27	57.3										
			ES		Z		29	29										

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        RAR   EP        Z   19 28 57
        WTZ   EP        Z   19 30 08
        MNG    P        Z   19 30 37
               ES       Z      34 16
        MJZ   EP        ZNE 19 31 31
        MNW   EP        Z   19 31 52

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 28  19 29 13,9      6,2S 152,9E  16KM   4,9  NEW BRITAIN
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P        Z   19 34 55       27
        MNG    P        Z   19 36 46,8     40

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 29  00 47 15,8      6,1S 152,7E  34KM   5,1  NEW BRITAIN
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    P        Z   00 58 40       72

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 29  04 04 54,1      5,0S 153,4E  63KM   5,4  NEW IRELAND
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB    P        Z   04 12 23,2     40
        MNG    P        Z   04 12 27,7     41
               E(*PP)   Z      43
        MSZ    P        Z   04 12 36       42

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 29  05 59 01,7      20,0S 175,3W 154KM  5,4  TONGA
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP        Z   06 00 51,4U     7
        RAO    P        Z   06 01 14       10
               S        Z      02 58
        RAR    P        ZNE 06 02 17,3     15 -0,53
               I        ZNE    22,6
               S        ZNE    04 54
               ET       ZNE    00 06
        WTZ    P        Z   06 03 14,6     19
        GNZ    P        ZNE 06 03 19,7     19 -0,18                          6,1
               ES       ZNE    06 41
        KRP   IP        ZNE 06 03 20,3D    20 -0,36                          5,9
               ES       ZNE    06 55
               (*SS)    N      08 02
        MNG    P        Z   06 03 42,2     22
               ES       Z      07 36
        MJZ   EP        ZNE 06 04 27       27 -1,13                          5,4
               PCP      Z      07 46,6
               ES       ZNE    09 03
        MSZ   EP        Z   06 04 40,5     28
               E        Z         47,4
               E*PP     Z      05 15,3
        MNW    P        Z   06 04 50,7     29
               *PP      Z      05 24,6
        WPZ    P        Z   06 04 54,3     30
               *PP      Z      05 28,3
        SBA   IP        ZNE 06 08 45,7J    59 -0,96                          6,0
               *PP      ZNE    09 23,3

         H  M  S        EPICENTRE    DEPTH  MAG
AUG 29  06 53 28,9      6,5S 129,8E  33KM   5,4  BANDA SEA
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P        Z   07 02 26,6     50
        COB   EP        Z   07 02 33       51
        MJZ    P        ZNE 07 02 34,6     52
        MNG   EP        Z   07 02 43       53 -1,42                          5,6
        SBA    P        ZNE 07 05 03,2     74 -1,33                          5,7
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          H  M  S       EPICENTRE    DEPTH  MAG
AUG 29  07 01 06.2     9.5S 158.6E   31KM  5.0  SOLOMON IS
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P       Z   07 08 05.1      34

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 29  08 01 19.3     6.1S 152.9E   22KM  4.9  NEW BRITAIN
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG E(P)       Z   08 08 51.5      40
            E          Z      09 01

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 30  00 38 57.3     6.6S 154.9E   45KM  5.0  SOLOMON IS
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P       Z   00 45 59.2      35
        MNG    P       Z   00 46 17         39
        MSZ    P       Z   00 46 27.6       40
        MJZ    PCP     Z   00 48 37.2       40

AUG 30  AFI    P       Z   02 23 56
               S       ZNE    24 17

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 30  05 21 15.6     19.8S 177.7W 562KM  4.9  FIJI REGION
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    IP      Z   05 22 49.0U      5
               S       Z      24 07.7
        AFI    IP      Z   05 23 16.0D      8
               S       ZNE    24 50
        RAO    P       Z   05 23 27.3       9
               S       Z      25 16
        RAR    P       Z   05 24 44.7       17 -1.2S                        5.2
        CRZ    P       ZNE 05 24 46.1       17 -0.3Z                        6.1
        WTZ    P       Z   05 24 59.3       19
               ES      Z      27 53
        KRP    IP      ZNE 05 25 04.1D      19 -0.2S                        6.2
               S       ZNE    28 08
        GNZ    P       ZNE 05 25 05.0       19 -0.0Z                        6.4
               S       ZNE    28 09
        MNG    P       Z   05 25 23.6       22
               I       Z      26.1
               E       Z      28 44
               S       Z      52
        WEL    P       ZNE 05 25 31.6       22 -0.3Z                        6.1
               S       ZNE    28 54.5
        COB    P       Z   05 25 35.2       23
               S       Z      29 01
        MJZ    P       ZNE 05 26 04.7       25
               ES      ZNE    29 56
        MSZ    P       Z   05 26 18         28 -0.6S                        5.9
               I       Z      21.3
               S       Z      30 17
        MNW    P       Z   05 26 28.5       29 -0.3Z                        6.2
        SBA    IP      ZNE 05 30 21.6D      59 -0.8S                        5.5
               *PP     Z      32 16.7

AUG 30  KRP    P       Z   08 17 04.5
        MNG    EP      Z   08 17 25.5
        MSZ    P       Z   08 17 38.2

          H  M  S       EPICENTRE    DEPTH  MAG
AUG 30  10 23 57.8     6.1S 152.3E   27KM  5.3  NEW BRITAIN
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P       Z   10 29 43.2       27
        KRP    P       Z   10 31 17.7       38 -1.1S                        5.6
               (*PP)   Z      27.8
        CNZ    P       Z   10 31 27.8       39 -1.1S                        5.6
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          (*PP)   Z          36.0
     MNG  (*PP)   Z   10 31 43.6      40
     MSZ   P      Z   10 31 42.4      41
       E(*PP)     Z          51.2
     MJZ   EP     ZNE 10 31 41        41
       E(*PP)     Z          51
     SBA  (P)     Z   10 35 22        72

      H  M   S      EPICENTRE    DEPTH   MAG
AUG 30  10 29 51.1   3.5S 144.9E   13KM   5.6  BISMARCK SEA
                      H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     NDF   P      Z   10 36 43.8      35
     AFI   P      ZNE 10 38 20        44
           S      ZNE    46 40
           L      ZNE    48
     KRP   P      ZNE 10 38 02.4      44 -0.27                       6.6
     MSZ   EP     Z   10 38 14.2      46
     MNG   P      Z   10 38 16.0      46 -0.63                       6.3
           *PP    Z          22.8
     WEL   P      ZNE 10 38 16        46          4 12               6.2
           EPP    Z          40 13
           S      ZNE    44 04
           LQ     N      47
     MJZ   P      ZNE 10 38 17.2      46
     RAR   P      Z   10 37 54        57
           PP     Z          39 36
           S      ZNE    47 39                              23 20  6.6
           E      Z          51 22
           LQ     N          54
           LR     ZNE        57
     SBA   P      ZNE 10 41 36.3      75 -0.28                       6.9
           S      ZNE    51 19                        6 15   9 14   6.6
           LQ     NE  11 02
           LR     ZNE    06

      H  M   S      EPICENTRE    DEPTH   MAG
AUG 30  16 24 46.8   19.5S 169.0E  118KM        NEW HEBRIDES
                      H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP   P?     Z   16 29 48.5      19

      H  M   S      EPICENTRE    DEPTH   MAG
AUG 30  16 28 20.7   6.2S 152.2E   32KM   5.1  NEW BRITAIN
                      H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP   EP     Z   16 35 39.3      38

      H  M   S      EPICENTRE    DEPTH   MAG
AUG 30  19 14 47.5   6.7S 155.4E   72KM   5.3  SOLOMON IS
                      H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     NDF   P      Z   19 19 52.7      24
           (*SP)  Z          20 12.5
     KRP   EP     Z   19 21 41        36
           PCP    Z          24 08.8
     MNG   P      Z   19 21 59.7      38 -1.16                       5.7

AUG 30 NDF   P      Z   20 02 07.4
     KRP   P      Z   20 03 37
     MNG   P      Z   20 03 56.4
           ES     Z       06 50
     MJZ   EP     Z   20 04 38
     MSZ   EP     Z   20 04 52.5
     SBA   P      Z   20 09 09.2

      H  M   S      EPICENTRE    DEPTH   MAG
AUG 31  03 03 10.4   14.7S 167.5E  123KM        NEW HEBRIDES
                      H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP   P      Z   03 08 17.1      24
     SBA   P      Z   03 13 27.4      63
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	H M S	EPICENTRE	DEPTH	MAG	
AUG 31	05 34 47.4	21.2S 179.2W	625KM	4.8	FIJI REGION

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
NDF	IP	Z	05 36 19.2U		5								
RAO	P	Z	05 36 46		9								
	ES	Z	38 25										
AFI	P	Z	05 37 05		10								
	S	ZNE	38 55										
CRZ	P	ZNE	05 37 58.2		15								
WTZ	P	Z	05 38 11.3		17								
KRP	P	ZNE	05 38 17.0		17	=0.79							5.5
GNZ	P	ZNE	05 38 18		18								
	ES	ZNE	41 07										
MNG	P	Z	05 38 36.3		20								
	S	Z	41 45										
	(SCP)	Z	45 05.7										
	ESCS	Z	48 50										
WEL	P	Z	05 38 45.4		21	=0.76							5.7
COB	P	Z	05 38 48.7		21								
MSZ	P	Z	05 39 32.7		26								
MNW	P	Z	05 39 41.7		27	=0.86							5.7
SBA	IP	ZNE	05 43 38.9U		57	=0.99							5.3

	H M S	EPICENTRE	DEPTH	MAG	
AUG 31	08 07 22.5	35.9N 136.7E	24KM	5.5	S. HONSHU

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	08 19 41.5		82								

AUG 31	AFI	P	Z	09 54 12									
		S	ZNE	55 07									
	KRP	EP	Z	09 57 32.5									
	WTZ	EP	Z	09 57 29									

	H M S	EPICENTRE	DEPTH	MAG	
AUG 31	14 03 16.3	52.3N 95.4E	33KM	5.5	S. SIBERIA

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	PKP	Z	14 22 36		137								
	SKP	Z	25 27.2										

	H M S	EPICENTRE	DEPTH	MAG	
AUG 31	19 40 43.8	6.2S 152.3E	34KM	4.8	NEW BRITAIN

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
MNG	P	Z	19 48 18.3		40								

SEP 01	KRP	P	Z	01 39 55.0									
	WTZ	P	Z	01 39 53									
	MNG	EP	Z	01 40 18									
		ES	Z	42 58									

SEP 01	RAO	EP	Z	08 04 35									
	KRP	P	Z	08 06 07.0									
	GNZ	ES	ZNE	08 08 33									
	MNG	EP	Z	08 06 29									
		S	Z	09 12									
	WEL	ES	ZNE	08 09 21									

SEP 01	RAO	P	Z	10 17 38.0									
		ES	Z	18 06									

	H M S	EPICENTRE	DEPTH	MAG	
SEP 01	12 47 14.2	15.0S 167.3E	130KM	5.6	NEW HEBRIDES

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
NDF	IP	Z	12 49 40.1U		10								
	I	Z	56.5										
RAO	EP	Z	12 51 36		20								
	eSP	Z	52 10										
CRZ	P	ZNE	12 51 39.3		20								

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        AFI    P       ZNE 12 51 42        20
               S       ZNE    55 28
        KRP EIP        ZNE 12 52 18.7JS    24 -0.06                          6.4
               *PP     ZNE       47.0
        GNZ EIP        ZNE 12 52 30.0J     25
               S       ZNE    56 47
        MNG EIP        Z   12 52 40.0J     27
               *PP     Z      53 07
               S       Z      57 04
        WEL    P       ZNE 12 52 44.3      27
               S       ZNE    57 14
        MJZ    P       ZNE 12 53 04.0      29 -0.89                          5.7
               *PP     Z      33
               PP      Z      54 03.0
               PCP     ZNE    56 09.0
        MSZ    P       Z   12 53 09.0      30
        MNW    P       Z   12 53 18.3      31
        RAR    EP      ZNE 12 53 30        32
        SBA    IP      ZNE 12 57 28.7      63  0.05                          7.1

SEP 01  RAO    ES      Z   13 18 12

SEP 01  KRP    P       Z   13 22 20.2
        GNZ    P       ZNE 13 22 32.5

         H  M   S       EPICENTRE    DEPTH   MAG
SEP 01  23 28 39.7     5.1S 153.6E   64KM    4.2  NEW IRELAND
                          H  M   S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        MNG    P       Z   23 36 13.0      40

         H  M   S       EPICENTRE    DEPTH   MAG
SEP 02  01 49 36.8     29.4N 130.5E   41KM    6.1  RYUKYU IS
                          H  M   S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        NDF    P?      Z   02 00 16.8      65
               E       Z      41
        KRP    P       ZNE 02 01 44.3      79 -0.69                          6.4
               *PP     Z   02 04
        GNZ    P       ZNE 02 01 47        81 -0.39                          6.7
        MNG    P       Z   02 01 48.0      81
               *PP     Z   02 08
        WEL    P       Z   02 01 47.4      81 -0.48                          6.7
               *PP     Z      02 07
               ES      ZNE    12 17
               EL      ZNE    27
        MSZ    P       Z   02 01 50.0      81
               I*PP    Z   02 14.0
        MJZ    P       ZNE 02 01 51        82
        RAR    EP      ZNE 02 02 09        84
               ES      ZNE    12 30
               ELR     ZNE    28
        SBA    EPP     ZNE 02 09 34       109
               EPS     ZNE    17 54
               ESS     ZNE    23 50

SEP 02  NDF    EP      Z   02 47 31

         H  M   S       EPICENTRE    DEPTH   MAG
SEP 02  04 15 47.7     22.1S 179.7W  591KM   4.9  S. OF FIJI
                          H  M   S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        NDF    IP      Z   04 17 20.2J      5
        RAO    P       Z   04 17 37.5       7
               S       Z      19 08
        WTZ    P       Z   04 19 04.8      16
        KRP    P       ZN  04 19 08.9      16
        GNZ    P       ZNE 04 19 10.0      17
               E       Z      29.0
               S       ZNE    21 56
        MNG    P       Z   04 19 30.5      19
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            ES      Z       22 30
              SCP   Z       26 11.0
        WEL   S     NE  04 22 50        20
        MJZ   P     Z   04 20 21        23
        MNW   P     Z   04 20 34.0      25

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 02  05 27 15.4   22.0S 170.0E   34KM  4.8  LOYALTY IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P     Z   05 29 19.5        8
        KRP   EP    Z   05 31 10        17
        GNZ   P     Z   05 31 27        18
        MNG   P     Z   05 31 39.1      19
        MJZ   EP    Z   05 32 10        22

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 02  05 58 11.9    3.5S 149.8E   27KM  4.5  BISMARCK SEA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        GNZ   P     Z   06 06 16        43
        MNG   EP    Z   06 06 20        44

SEP 02  MNG   P     Z   10 14 05

SEP 02  AFI   P     Z   17 56 57

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 02  19 12 26.8   35.5N 140.9E   54KM  4.7  HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   EP    Z   19 24 42        82

SEP 02  AFI   P     Z   19 54 18
              S     ZNE     55 16

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 02  21 45 49.8   50.3S 114.2E   33KM  4.5  S. OF AUSTRALIA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P     ZNE 21 53 14.0      38 -1.00                      5.8
        MNG   EP    Z   21 53 48        43

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 03  00 17 43.1    6.1S 152.8E   33KM  5.0  NEW BRITAIN
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P     Z   00 24 59        38
              E     Z       25 07.3
        GNZ   P     ZNE 00 25 13.0      40
              E     Z       30.5
        MNG   P     Z   00 25 15.0      40
        MSZ   P     Z   00 25 23.5      41
              E     Z       32.0

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 03  00 43 22.8   55.5S  28.5W   33KM  5.1  SOUTH SANDWICH IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P     Z   00 55 24        79
        KRP   EP?   Z   00 56 04        85

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 03  01 54 13.0    6.2S 152.8E   33KM  4.7  NEW BRITAIN
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P     Z   02 01 29.7        38
        GNZ   P     Z   02 01 43          40
        MNG   P     Z   02 01 45.0        40
        MSZ   P     Z   02 01 52.7        41

SEP 03  MNG   P     Z   03 01 28.8

SEP 03  AFI   P     Z   04 27 50
              S     ZNE     28 15
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                T       ZNE     30 45

SEP 03  MJZ   EP?       Z    05 02 56
        MNG    P        Z    05 03 08.5

SEP 03  MNG   EP        Z    05 16 33.5

         H  M  S        EPICENTRE     DEPTH   MAG
SEP 03  06 31 21.6      5.6S 151.3E    45KM    5.4   NEW BRITAIN
                                  H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP        Z    06 37 17        28
              E         Z       38 14.5
        AFI    P        ZNE  06 38 37        37
               PCP      E       41 40
               S        NE      44 22
               LR       NE      47
        KRP    P        ZNE  06 38 50.0      39
               PP       Z       40 05
               PCP      Z       58.7
              E         Z       41 38
        GNZ    P        ZNE  06 39 04.3      41  0.04                        6.8
               I        ZNE     11.9
              E         ZNE     44.0
        MNG    P        Z    06 39 05.0      41 -0.76                        6.0
        WEL    P        Z    06 39 06.8      41
               PCP      Z       41 02
              E         ZNE     42 18
               S        ZNE     45 38
              (SS)      ZNE     48 48
               LR       ZNE     51 18                 92 22
        MJZ    P        ZNE  06 39 10.4      42
               *PP      Z       21.0
              E         Z       40 03
               PP       Z       15
               PCP      ZNE     41 09
        MSZ    P        Z    06 39 11.0      42 -0.40                        6.3
              I         Z       15.0
               *PP      Z       20.9
        ROX   EP        Z    06 39 21        43
               S        ZNE     45 50
               SS       NE      49 18
               L        ZNE     53
        RAR   EP        ZNE  06 40 18.5      50
              ES        ZNE     47 30
              ESS       ZNE     51 22
              ELQ       ZNE     53 30
              ELR       ZNE     55 40
        SBA   EP        ZNE  06 42 52        73
              ES        ZNE     52 12
              ESS       ZNE     54 46
              ELQ       ZNE  07 01 00
              ELR       ZNE     04 10

         H  M  S        EPICENTRE     DEPTH   MAG
SEP 03  07 55 59.1      5.6S 151.2E    49KM    5.2   NEW BRITAIN
                                  H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P        Z    08 01 54        28
              E         Z       02 02
        AFI    P        Z    08 03 15        37
               S        N       09 00
               LR       NE      12
        KRP    P        Z    08 03 26.0      39
        GNZ    P        Z    08 03 39.0      41
              I(*PP)    Z       47.3
        MNG    P        Z    08 03 39.2      41
              (*PP)     Z       47.6
        WEL   (*PP)     Z    08 03 49        41
        MSZ    P        Z    08 03 44.0      42 -0.66                        6.1
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            *PP     Z          55.2
      MJZ   P       ZNE 08 03 46.0       42
            PCP     Z       03 44
      MNW   P       Z   08 03 51.2       42
            (*PP)   Z       04 04
      SBA   EPP     ZNE 08 10 00         73
            ES      ZNE     16 50
            ESS     ZNE     21 39

       H  M  S      EPICENTRE    DEPTH  MAG
SEP 03 08 10 21.9   5.6S 151.2E   53KM  4.7  NEW BRITAIN
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      NDF   EP      Z   08 16 20        28
      MNG   EP      Z   08 18 04        41
      MSZ   EP      Z   08 18 08        42
      MJZ   EP      Z   08 18 09        42
      MNW   EP      Z   08 18 17        42

       H  M  S      EPICENTRE    DEPTH  MAG
SEP 03 08 50 33.1   7.3S 119.9E  599KM  5.2  FLORES
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      MSZ   P       Z   08 59 17.0      56 -1.08                        5.3
            (*PP)   Z   09 00 47
      MNW   P       Z   08 59 19        56
      MJZ   EP      Z   08 59 38        57
      KRP   (P)     Z   08 59 36        59
      MNG   P       Z   08 59 40.1      59

       H  M  S      EPICENTRE    DEPTH  MAG
SEP 03 08 52 11.1   5.6S 151.2E   32KM  4.7  NEW BRITAIN
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      NDF   P       Z   08 58 13.2      28
      AFI   P       Z   08 59 16        37
            S       NE  09 08 08
      MNG   EP      Z   08 59 57        41
      MSZ   EP      Z   09 00 02        42
      MJZ   EP      Z   09 00 06        42
      MNW   EP      Z   09 00 07        42

       H  M  S      EPICENTRE    DEPTH  MAG
SEP 03 09 25 54.8   5.6S 151.3E   33KM  4.5  NEW BRITAIN
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      NDF   EP      Z   09 31 53        28
      MNG   P       Z   09 33 40.3      41
      MSZ   P       Z   09 33 46        42
      MJZ   EP      Z   09 33 45        42

SEP 03 AFI   P       Z   10 27 36
             S       ZNE     51

       H  M  S      EPICENTRE    DEPTH  MAG
SEP 03 11 40 21.9   14.8S 167.1E 100KM  5.5  NEW HEBRIDES
                       H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      NDF   IP      Z   11 42 52.1U      10
            I       Z       59.1
      ORZ   EP      Z   11 44 51          20
      KRP   EIP     ZNE 11 45 30.7J      24 -0.32                        6.0
            I       Z       38.1
      WTZ   P       Z   11 45 34.4J      25
      ECZ   P       Z   11 45 44          25
      GNZ   P       Z   11 45 42.0        26
            I       ZNE     44.9
      TRZ   P       Z   11 45 48.7        26
      MNG   P       Z   11 45 51.6        27
            (*SP)   Z   46 36.0
      MJZ   P       ZNE 11 46 15.0        29
      GPZ   P       N   11 46 16.9        29
      MSZ   P       Z   11 46 20.0        30
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          (*SP)   Z       47 04
        ROX   P   Z   11 46 27.8      31
        MNW   EP  Z   11 46 29.6      31

         H  M  S      EPICENTRE   DEPTH  MAG
SEP 03  11 55 45.2    5.5S 151.1E  33KM  4.5  NEW BRITAIN
                        H  M  S  DIR DIS LOG AZ TZ  AN TN  AE TE  MAG
        MNG   EP  Z   12 03 28       41
        MSZ   EP  Z   12 03 34       42

         H  M  S      EPICENTRE   DEPTH  MAG
SEP 03  13 29 33.5    5.9S 153.7E  33KM       NEW IRELAND
                        H  M  S  DIR DIS LOG AZ TZ  AN TN  AE TE  MAG
        MNG   P   Z   13 37 07.6      40
              *PP Z         20.9

         H  M  S      EPICENTRE   DEPTH  MAG
SEP 03  16 04 40.1    6.0S 152.8E  48KM  5.3  NEW BRITAIN
                        H  M  S  DIR DIS LOG AZ TZ  AN TN  AE TE  MAG
        NDF   EP  Z   16 10 19       27
        KRP   P   Z   16 11 55.5     38
              *PP Z      12 07.0
              PCP Z      14 12
        GNZ   P   ZNE 16 12 09.7     40
        MNG   P   Z   16 12 11.9     40
              *PP Z         22.3
        MJZ E(P)  Z   16 12 18       41
              PCP Z      14 20.0
        MSZ   P   Z   16 12 21       41

         H  M  S      EPICENTRE   DEPTH  MAG
SEP 03  16 48 28.8    36.0N  73.4E  36KM  6.3  KASHMIR
                        H  M  S  DIR DIS LOG AZ TZ  AN TN  AE TE  MAG
        MSZ   PKP Z   17 07 11.9     117
              I   Z         15.0
              (PKKP) Z   17 39.0
        AFI   PKP Z   17 07 16.0D    119
        MJZ   PKP ZNE 17 07 15.2     118
              PP  Z      08 19.2
              (PKKP) ZNE    17 33
        WPZ   PKP Z   17 07 15       119
        KRP   PKP Z   17 07 16.0     120
              (PKKP) Z      17 27.0
        WTZ   PKP Z   17 07 16.3     121
        MNG   PKP Z   17 07 17.0     121
              E   Z         38.5
        CBZ   PKP Z   17 07 19.5     121
        SBA   EPP ZNE 17 09 18       126

SEP 03  KRP   P   Z   17 17 27.0
        MJZ   P   ZNE 17 17 33
        MSZ   P   Z   17 17 39.0

         H  M  S      EPICENTRE   DEPTH  MAG
SEP 04  00 05 51.4    41.6N 141.9E  76KM  5.3  HOKKAIDO
                        H  M  S  DIR DIS LOG AZ TZ  AN TN  AE TE  MAG
        MNG   EP  Z   00 18 31       87

SEP 04  RAO   EP  Z   00 30 46
            E(S)  Z      31 05

         H  M  S      EPICENTRE   DEPTH  MAG
SEP 04  04 26 49.8    12.0S 167.2E 296KM  5.1  SANTA CRUZ IS
                        H  M  S  DIR DIS LOG AZ TZ  AN TN  AE TE  MAG
        NDF   P   Z   04 29 27.8U    11
        MNG   EP  Z   04 32 26       29
```

	H M S	EPICENTRE	DEPTH	MAG									
SEP 04	04 33 06.4	25.2S 68.9W	107KM	5.3	ANDES								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ EP	Z 04 46 08		93									
	KRP P	Z 04 46 09.9		93									

	H M S	EPICENTRE	DEPTH	MAG									
SEP 04	07 00 03.6	67.7N 33.4E	7KM	4.6	W. RUSSIA								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG EPKP	Z 07 19 44		145									
	MJZ PKP	Z 07 19 48		147									

	H M S	EPICENTRE	DEPTH	MAG									
SEP 04	11 54 49.4	6.2S 130.0E	30KM		BANDA SEA								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ EP	Z 12 03 59		52									
SEP 04	MNG EP	Z 11 59 29											
	E	Z 12 00 46											
SEP 04	MNG EP	Z 12 13 24											

	H M S	EPICENTRE	DEPTH	MAG									
SEP 04	13 42 18.1	35.9N 73.4E	33KM	5.8	KASHMIR								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ PKP	Z 14 01 01.0		117									
	MJZ PKP	ZNE 14 01 03		118									
	KRP EPKP	Z 14 01 06		119									
	MNG EPKP	Z 14 01 07		121									
	E	Z 45											
	SBA EPKP	ZNE 14 01 17		125									

	H M S	EPICENTRE	DEPTH	MAG									
SEP 04	14 05 52.1	6.1S 130.2E	33KM		BANDA SEA								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ EP	Z 14 14 54		51									
	MJZ P	Z 14 15 01.0		52									
	MNG EP	Z 14 15 18		53									

	H M S	EPICENTRE	DEPTH	MAG									
SEP 04	15 06 18.8	26.7N 142.2E	38KM	4.6	BONIN IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 15 17 32		71									
	MNG P	Z 15 17 44.5		74									

	H M S	EPICENTRE	DEPTH	MAG									
SEP 04	18 11 12.0	11.7S 166.2E	62KM	6.0	SANTA CRUZ IS								
		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF P	Z 18 14 10.0U		12									
	I	Z 13.2D											
	AFI P	ZNE 18 16 00		22									
	S	ZNE 20 00											
	LR	ZNE 22											
	RAO P	Z 18 16 13		23									
	CRZ EP	ZNE 18 16 18		23									
	ONE EP	E 18 16 35		25									
	PP	E 17 17											
	GBZ EP	Z 18 16 38		26									
	AUC P	Z 18 16 46.0		26									
	(*SP)	Z 17 16.3											
	KRP IP	ZNE 18 16 52.8DN		27	-0.52								6.0
	*SP	ZNE 17 20.8											
	PP	ZNE 37.5											
	S	ZNE 22 00											
	SCP	ZNE 23 52.0											
	ECZ P	Z 18 16 50.6		29									
	WTZ P	Z 18 16 56.5		28									

	I	Z		17	41.9									
	PP	Z		18	14.0									
	S	Z		21	38									
TNZ	EP	Z	18	17	02	28								
WNZ	EP	Z	18	17	08	29								
CNZ	EP	Z	18	17	03	29	+0.40							6.1
	I	Z			04.9									
	(PCP)	Z		20	47									
	S	Z		21	54									
	SCP	Z		23	52									
	(PCS)	Z		24	00									
GNZ	P	ZNE	18	17	05.9	29								
	*SP	Z			30									
	S	ZNE		21	50									
TRZ	P	Z	18	17	08.0	29								
	*PP	Z			26									
	(*SP)	Z			43.3									
	PP	Z		18	22									
	S	Z		22	14									
MNG	P	Z	18	17	13.8	30								
	*SP	Z			47.5									
	S	Z		22	06									
	*SS	Z			46									
	ESCP	Z		24	28									
	E	Z		38	54									
WEL	P	ZNE	18	17	17	30	+0.21							6.5
	S	ZNE		22	14									
	LQ	NE		24	20									
	LR	ZNE		25	42			268	20	155	19	167	21	
KAI	P	X	18	17	26	31								
GPZ	P	N	18	17	34.0	32								
	S	N		22	46									
MJZ	P	ZNE	18	17	36	32								
	(*PP)	Z			57.5									
	I	Z		18	22.4									
	PCP	ZNE		20	27.0									
	S	ZNE		22	49									
	SCP	Z		24	11.0									
	SCS	ZNE		28	34									
	E	Z		32	27.0									
	E	Z		38	09									
	E	Z		40	29									
	E	Z		43	36									
	E	Z		54	16									
CHR	P	Z	18	17	37	32								
MSZ	EIP	Z	18	17	41.9J	33								
	*PP	Z		18	00									
	E	Z		54	39									
ROX	EIP	Z	18	17	48.8U	34								
	IS	ZNE		23	10									
	LQ	NE		25	45									
	LR	ZNE		27										
RAR	E	ZNE	18	18	00	34								
MNW	P	Z	18	17	49.2	34								
	(*PP)	Z		18	07									
WPZ	P	Z	18	17	58	35								
	(*PP)	Z		18	22									
CBZ	P	Z	18	18	49.7	41								
SBA	IP	ZNE	18	21	54.4	65	0.51							7.6
	ES	ZNE		30	45									
	EPS	ZNE		31	10									
	ESCS	ZNE			51									
	ESS	ZNE		35	00									
	ESSS	ZNE		38	21									
	ELQ	ZNE		39	20									
	ELR	ZNE		42	28									

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          H  M  S       EPICENTRE    DEPTH  MAG
SEP 04   19 58 36,9     6,0S 152,4E   33KM  5,5  NEW BRITAIN
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   EP       Z    20 05 53        38
         MSZ   EP       Z    20 06 17        41
         MJZ   EP       Z    20 06 24        41

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 04   21 24 30,6     17,9S 178,4W 607KM  5,3  FIJI REGION
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   IP       Z    21 25 56,1U      4
               I(S)     Z       27 11,4U
         AFI   IP       Z    21 26 21,5U      8
                S       ZNE     27 51
         RAR   IP       ZNE  21 28 02,8      18
         WTZ   EP       Z    21 28 30        20
         KRP   EP       Z    21 28 29,5      21
         MNG   EP       Z    21 28 50        23
         MJZ   EP       Z    21 29 28        28
         MSZ   EP       Z    21 29 43        29
         MNW   EP       Z    21 29 53,0      30

SEP 04   KRP    P       ZE   21 29 51
         MNG   EP       Z    21 30 19
         MJZ    P       ZNE  21 31 05,5
         MSZ    P       Z    21 31 20
         WPZ    P       Z    21 31 26
         MNW    P       Z    21 31 33

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 04   21 27 51,5     17,6S 173,0W  33KM  4,9  TONGA
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         AFI   (P)      Z    21 28 57        4
                S       ZNE     29 27
                T       ZNE     32 45
         NDF   EP       Z    21 30 11,5      9
         RAR   EP       ZNE  21 30 44,5      13
               EL       ZNE     34 19
         CRZ   EP       ZN   21 32 33        21
         GBZ   EP       Z    21 32 35        21
         ONE    P       E    21 32 37        21
         WTZ    P       Z    21 32 44,0      22
         AUC    P       Z    21 32 45        22
         GNZ    P       ZNE  21 32 50,0      22
                *SP     ZNE     33 05,0
         KRP   EIP      ZNE  21 32 51,7ONE   23 =0,36                      6,0
               I*PP     Z       33 02,0
               *SP      ZNE     06,0
                S       E       36 59
         TRZ   EP       Z    21 33 00        24
         CNZ    P       Z    21 33 00        24
         TNZ   EP       Z    21 33 06        24
         MNG    P       Z    21 33 14,5      25
               ES       Z       37 42
         WEL   EP       Z    21 33 33        26
         MJZ    P       ZNE  21 34 01        30
                *SP     ZNE     15
         MSZ   EP       Z    21 34 11        31
         MNW   EP       Z    21 34 24        32

SEP 05   MNG    P       Z    01 36 16,5

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 05   02 39 46,1     21,6S 169,7E  55KM  4,9  LOYALTY IS
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         AFI    P       ZNE  02 44 05        19
                S       NE      47 44
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          LR      Z      49
     NDF  EP      Z   02 41 48        8
     KRP  EP      ZNE 02 43 41       17
          •PP     Z      57
     MNG  EP      Z   02 44 08.0      20
          •PP     Z      20
          PCP     Z      48 34.0
     WEL  PCP     ZE  02 48 12       20
          L       ZNE    50
     MJZ  EP      ZNE 02 44 43       22
     MSZ  EP      Z   02 44 56       23
          •SP     Z      45 18
     SBA  EP      ZNE 02 49 21.6     56

      H  M  S       EPICENTRE    DEPTH  MAG
SEP 05  05 23 02,1    6,9S 129,7E  86KM  5,8  BANDA SEA
                        H  M  S   DIR DIS LG wA/T  AZ TZ  AN TN  AE TE  MAG
     NDF  EP      Z   05 31 35       48
     CRZ  P       ZNE 05 31 36       48
     MSZ  P       Z   05 31 51,2     50 =0,70                          6,4
          •SP     Z      32 17,5
          PCP     Z      33 09,7
          SCP     Z      36 55,8
     MJZ  P       ZNE 05 31 59,0     51 =0,70                          6,4
          •PP     ZNE    32 16,7
          •SP     ZNE       26
          PCP     ZNE    33 13,0
          SCP     ZNE    36 59,0
     KRP  P       ZNE 05 32 03,00    52 =0,76                          6,3
          SCP     Z      37 01,5
     CNZ  P       Z   05 32 06       52
          SCP     Z      37 02,0
     WEL  P       ZNE 05 32 08,0     53
          (•PPCP) Z      33 43
     MNG  P       Z   05 32 09,8     53
          (•SP)   Z      34
          (•PPCP) Z      33 51
          SCP     Z      37 08
     WTZ  P       Z   05 32 10,8     53
     GNZ  P       ZNE 05 32 17,0     54
     AFI  P       ZNE 05 32 49       58
          PP      Z      33 20
          S       ZNE    40 44
          SSS     NE     47 12
          LR      ZE     51
     SBA  EP      ZNE 05 34 27       73
          ES      ZNE    43 48

SEP 05    MNG  EP      Z   07 53 43
          E(S)    Z      56 38

SEP 05    MNG   P      Z   08 53 09,7

      H  M  S       EPICENTRE    DEPTH  MAG
SEP 05  10 15 01,7    12,3S 165,8E  37KM  4,9  SANTA CRUZ IS
                        H  M  S   DIR DIS LG wA/T  AZ TZ  AN TN  AE TE  MAG
     NDF  EP      Z   10 18 05       12
     AFI  (P)     Z   10 20 11       22
          S       ZNE    24 16
     MNG  EP      Z   10 21 01       29
     MJZ  EP      ZNE 10 21 26       32
     MSZ  EP      Z   10 21 32       32
     SBA  EP      ZNE 10 25 36       66

SEP 05    RAO  EP      Z   10 40 30
          S       Z      51
     GNZ  S       NE  10 44 40
     MNG  EP      Z   10 42 55
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            ES      Z       45 36

SEP 05  MNG   P     Z    12 08 39.0

SEP 05  MNG   EP    Z    15 26 57
              ES?   Z       29 49

          H  M  S       EPICENTRE     DEPTH  MAG
SEP 05   16 24 17.8    20.9S 169.7E   95KM   4.3  NEW HEBRIDES.
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP   P     Z    16 28 20.2       18
         GNZ   P     Z    16 28 34.8       19
         CNZ   EP    Z    16 28 37         19
         MNG   EIP   Z    16 28 46.8J      20 -1.05                      5.2

          H  M  S       EPICENTRE     DEPTH  MAG
SEP 05   17 18 27.1     1.9N 128.2E  132KM   6.1  HALMAHERA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   EP    Z    17 27 29         52
               E     Z       28 15
         MSZ   P     Z    17 28 10.1       58 -0.45                      6.6
               *PP   Z          44.3
               (*SP) Z          53
               E     Z       29 29
         MNW   P     Z    17 28 14.0       59
         KRP   P     ZNE  17 28 14.9       59 -0.60                      6.5
               *PP   Z          47.0
               PCP   Z       29 04.6
         MJZ   P     ZNE  17 28 16.0U      59 -0.56                      6.5
               I*PP  ZNE      51.0
               IPCP  ZNE     29 05.0
         ROX   P     Z    17 28 19.0       60
         CNZ   P     Z    17 28 20.5       60 -0.71                      6.4
         WPZ   P     Z    17 28 21.2       60
         WEL   P     ZNE  17 28 21.8       60 -0.58                      6.5
         MNG   P     Z    17 28 22.0       60 -0.67                      6.4
               *PP   Z          55.0
               (PP)  Z       31 02
         GNZ   P     ZNE  17 28 28.0       61 -0.20                      6.9
         AFI   P     ZNE  17 28 34         62
         CBZ   EP    Z    17 28 50         64
         SBA   EP    ZNE  17 30 35         82
               EPCP  ZNE     31 07

          H  M  S       EPICENTRE     DEPTH  MAG
SEP 05   17 30 35.6    19.9S 169.0E   52KM   6.1  NEW HEBRIDES
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   IP    Z    17 32 37.6D       8
               (S)   Z       33 41
               E     Z       35 34
         CRZ   P     ZNE  17 34 06         15
               *SP   NE         27.0
               S     NE       37 16
         RAO   P     Z    17 34 11         15
         ONE   P     E    17 34 31.7       17
         GBZ   EP    Z    17 34 36.0       17
         AUC   P     Z    17 34 44         19
         KRP   IP    ZNE  17 34 54.3JSE    19 -0.22                      6.0
               SCP   Z       43 14
         AFI   IP    Z    17 34 58.0D      19  0.36                      6.5
               PP    ZNE    35 12
               S     ZNE    38 48
               LR    ZE     40
         WTZ   P     Z    17 34 59.0J      19
         ECZ   P     Z    17 35 04.0       20
         TNZ   EP    Z    17 35 05         20
         CNZ   P     Z    17 35 07.4J      20
         GNZ   EIP   ZNE  17 35 08.8JNE    20
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          S        ZNE     39 04.7
     TRZ  P        Z    17 35 14.0U     21
     MNG EIP       Z    17 35 20.3U     21
          S        Z       39 17
     WEL  P        ZNE  17 35 25.0      22
          S        ZNE     39 22
          SCS      NE      47 02.0
     GPZ  P        N    17 35 46.7N     24
     MJZ  P        ZNE  17 35 47.5      24 -0.53                          5.8
          -SP      ZNE     36 04.0
          PCP      Z       39 28
        I(-PPCP)   Z           41.0
          SCP      ZNE     43 06
          SCS      ZNE     47 12
     MSZ  P        Z    17 35 54.0U     25 -0.39                          6.0
     ROX  P        ZNE  17 36 00.8      26
          -PP      Z       12
          S        ZNE     40 31
          LQ       NE      43
          LR       ZNE     45
     MNW  P        Z    17 36 04.0      26
     WPZ  P        Z    17 36 11.3      27
     CIZ  EP       ZNE  17 36 14        27
     RAR  EP       ZNE  17 36 35        29
          ES       ZNE     41 23
          ELQ      ZNE     43 24
          ELR      ZNE     44 20
     CBZ  P        Z    17 36 03.8      33
     SBA  IP       ZNE  17 40 25        58  0.49                          7.7
          ES       ZNE     48 29
          ELR      ZNE     57 51

      H  M   S       EPICENTRE    DEPTH  MAG
SEP 05  18 03 35.0   19.8S 169.0E  74KM  5.2  NEW HEBRIDES
                        H  M   S  DIR DIS LQ  AZT  AZ TZ  AN TN  AE TE  MAG
     NDF  IP       Z    18 05 35.8U      8
          E        Z       06 31
          S        Z       50
     CRZ  P        ZNE  18 07 08.0      15
     KRP  P        ZNE  18 07 51.0      19
          -SP      ZN      08 08.7
          E        ZNE        35.5
     WTZ  P        Z    18 07 54.0      19
          I        Z           58.0
          -SP      Z       08 13
          E        Z           27
     CNZ  P        Z    18 08 04.7      20 -0.90                          5.3
     GNZ  P        ZNE  18 08 05.7U     20
          E        ZNE         52.0
          ES       ZNE     11 59
     TRZ  P        Z    18 08 10.4      21
     MNG  P        Z    18 08 17.0U     21 -0.53                          5.7
          I-SP     Z           34.1
          I        Z           54.0
          ES       Z       12 17
     WEL  EP       ZNE  18 08 22        22
     MJZ  P        ZNE  18 08 45.0      24
          -PP      ZNE         57.1
          E        ZNE     09 23
          PCP      ZNE     12 37.3
     MSZ  EP       Z    18 08 52        25
          E        Z       09 48
     SBA  IP       ZNE  18 13 22        58
          IPCP     ZNE         33.8
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          H  M  S       EPICENTRE    DEPTH  MAG
SEP 05   18 41 25.7    16.2S 177.8E   33KM  5.3  FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   IP        Z   18 41 49.8D      2
                S         Z      42 08
          AFI   P         Z   18 43 50         10
          KRP   P         ZNE 18 46 19         22 -0.86                    5.4
                (*SP)     Z      46.0
                PP        ZNE    57.0
          WTZ   EP        Z   18 46 19.5       22
                *SP       Z      33
          GNZ   P         ZNE 18 46 26         22
          CNZ   P         Z   18 46 33.6       23 -0.89                    5.5
          MNG   EP        Z   18 46 41.2       24
          WEL   EP        Z   18 46 49          25
          MJZ   EP        ZNE 18 47 22         28
          MSZ   EP        Z   18 47 36         30
          SBA   EP        ZNE 18 51 43.5       62

SEP 05    AFI   P         Z   19 04 14
                S         ZNE    05 24

SEP 05    KRP   P         Z   19 37 32.7
          CNZ   P         Z   19 37 44.0
          MNG   P         Z   19 37 55.5
                (S)       Z      39 57

SEP 05    MNG   EP        Z   21 29 44

SEP 05    RAO   EP        Z   23 54 40
                S         Z      54

SEP 06    MNG   P         Z   01 23 19

SEP 06    RAO   EP        Z   02 11 55
                ES        Z      12 09
          NDF   EP        Z   02 13 31
                E         Z      49

SEP 06    NDF   EP        Z   02 19 39
                I         Z      20 06.0

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 06   02 34 40.3     4.8S 153.9E   74KM  4.6  NEW IRELAND
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P?        Z   02 41 58         39
          COB   P         Z   02 42 10.6       40
          MNG   P         Z   02 42 15.3       41
          MSZ   EP        Z   02 42 24         42 -1.17                    5.6
          SBA   EP        ZNE 02 46 07         73

SEP 06    NDF   EP        Z   03 39 13
                I         Z      24.8

SEP 06    NDF   EP        Z   04 21 37.0
                I         Z      37.0

SEP 06    NDF   EP        Z   05 55 04
                I         Z      14
          MNG   EP        Z   05 59 32

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 06   05 55 28.5     16.0S 178.0E   33KM  5.2  FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P         Z   05 55 54          2
                S         Z      56 14
          AFI   P         Z   05 57 55         10
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                S       ZNE     39 52
        KRP     EP      ZNE 06 00 21.5      22
        CNZ     EP      Z   06 00 33        23
                I       Z           40.0
                (PP)    Z       01 32.0
        MNG     EP      Z   06 00 48        25
        COB     EP      Z   06 00 57        25
        MJZ     EP      ZNE 06 01 24        29
        SBA     EP      ZNE 06 05 47        62

SEP 06  MNG     EP      Z   07 14 17

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 06  08 00 25.3      2.5S 119.1E   36KM  5.8  SULAWESI
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ     P       Z   08 10 31        60
        COB     P       Z   08 10 45        62
        KRP     P       Z   08 10 48.0      62
        MNG     P       Z   08 10 51.0      63

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 06  08 04 49.6      5.4S 151.4E   54KM        NEW BRITAIN
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP     EP?     Z   08 12 15        39
        GNZ     EP      Z   08 12 30        41
        MNG     EP      Z   08 12 32        41
        MSZ     EP      Z   08 12 31        42

SEP 06  MNG     P       Z   09 31 21

SEP 06  CRZ     P       ZNE 12 07 21.8
        WTZ     P       Z   12 07 35
        KRP     P       Z   12 07 40.0
        GNZ     P       Z   12 07 41.8
        MNG     P       Z   12 08 01
        COB     P       Z   12 08 11.0
                E(S)    Z       11 45
        MJZ     P       Z   12 08 44

SEP 06  WTZ     P       Z   14 35 03
        KRP     EP      Z   14 35 10
        GNZ     EP?     Z   14 35 25

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 06  16 26 09.3      16.4S 177.9E  33KM  4.8  FIJI
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF     P       Z   16 26 32.1        1
                S       Z           49.5
        KRP     EP      Z   16 31 10        22
        SBA     EP      ZNE 16 36 27        62

SEP 06  AFI     P       Z   18 02 36
                S       ZNE     55

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 06  18 09 43.7      51.2S 160.2E  33KM  5.3  N. OF MACQUARIE I.
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CBZ     P       Z   18 10 52        6
                S       Z       11 50
        WPZ     EP      Z   18 11 15.0      7
                E       Z           17.7
                S       Z       12 29.8
        ROK     EPN     Z   18 11 33        8
                E(Pe)   Z           42
                ESN     Z       13 00
                L       Z
        MSZ     P       Z   18 11 33.9      8
                S       Z       13 03
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         OMZ  EP        Z   18 11 59          9
         MJZ  EPN?      ZNE 18 11 51         10
              (Pn)      ZNE    12 10
              (SN)      ZNE    13 40
         COB   P        Z   18 12 44         13
         MNG  EP        Z   18 13 05         15
         CNZ   P        Z   18 13 26         16
         TRZ  EP        Z   18 13 30         16
         KRP  EP        Z   18 13 36         17
         GNZ   P        Z   18 13 42         18
         WTZ   P        Z   18 13 44         18
         SBA  EP        ZNE 18 15 21         27
              ELR       ZNE    22 20
         NDF  EP        Z   18 16 40         35

SEP 06   NDF  EP        Z   18 11 30.5

SEP 06   MNG   P        Z   19 05 41

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 06   19 41 25.6     2.6S 139.3E   33KM  5.4  WEST IRIAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP  EP        Z   19 50 20         48
         MSZ   P        Z   19 50 03         49
         MJZ   P        ZNE 19 50 17         50
         MNG   P        Z   19 50 17         50
         GNZ  EP        Z   19 50 35         50
         SBA  EP        ZNE 19 53 14         77

SEP 06   MNG   P        Z   19 56 54

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 06   22 49 03.2     16.8S  71.1W 111KM  5.0  S. PERU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 23 01 03         80

SEP 06   NDF  EP        Z   23 28 57
              I         Z      29 17.0

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 07   00 37 42.8     22.2S 179.6W 520KM  4.0  S. OF FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF  IP        Z   00 39 23.3U       5
         RAO   P        Z   00 39 32.5         7
               S        Z      40 59
         WTZ   P        Z   00 41 00         16
         KRP   P        Z   00 41 04.0       15
         GNZ   P        Z   00 41 08         17
         MNG  EP        Z   00 41 34         19
         COB   P        Z   00 41 38         20

SEP 07   KRP   P        Z   00 42 10.0
         GNZ   P        Z   00 42 12
         MNG   P        Z   00 42 41

SEP 07   GNZ  EP?       Z   00 43 52
         MNG   P        Z   00 44 35

SEP 07   KRP   P        ZNE 01 16 51.0

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 07   02 54 58.3     2.0S  68.0E   33KM  5.8  N. INDIAN OCEAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 03 07 56         90
         KRP  EP        Z   03 08 53        103

SEP 07   RAO   P        Z   05 02 12.8
              ES        Z      50
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SEP 07  RAO   P        Z   06 45 05
              ES       Z       16

SEP 07  RAO   P        Z   07 06 58
              ES       Z       07 31

SEP 07  RAO   P        Z   12 07 20.7
              ES       Z       42

SEP 07  WTZ   EP       Z   15 55 50
              ES       Z       56 58
        GNZ   P        ZNE 15 55 53.0
              S        ZNE     57 02
        KRP   EP       Z   15 56 01
        CNZ   EP       Z   15 56 14
        MNG   EP       Z   15 56 33

SEP 07  MNG   P        Z   16 26 44.0
              ES       Z       28 38

SEP 07  GNZ   ES       ZNE 18 27 48
        MNG   P?       Z   18 24 02
              E        Z       25 37

SEP 07  KRP   P        Z   20 03 35.90
        WTZ   EP       Z   20 03 37
        COB   P        Z   20 04 08

         H  M   S       EPICENTRE    DEPTH  MAG
SEP 07  20 50 26.9      6.4S 148.4E   51KM  5.3  NEW BRITAIN
                           H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP?      Z   20 06 38       31
              E        Z       55
        RAO   EP       Z   20 07 48       39
        AFI   P        Z   20 07 58       40
              (S)      Z       14 20
               LQ      N       17
               LR      ZE      19
        KRP   P        ZNE 20 07 58.5     40  -0.82                      6.0
              PCP      Z       10 03
        COB   P        Z   20 08 06.0     41  -0.65                      6.1
        GNZ   P        ZNE 20 08 13.3     42
              (*SP)    ZNE     34
        WEL   P        Z   20 08 14.0     42
        MNG   P        Z   20 08 18.0     42  -0.67                      6.1
              *PP      Z       33
        MJZ   P        ZNE 20 08 19       42
              PCP      Z       10 11
        SBA   EP       ZNE 20 11 49       72

SEP 07  KRP   EP       Z   21 55 33

         H  M   S       EPICENTRE    DEPTH  MAG
SEP 07  22 26 57.9      46.0N  1.1W   33KM  5.3  FRANCE
                           H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP     ZNE 22 46 43       148

         H  M   S       EPICENTRE    DEPTH  MAG
SEP 08  03 12 57.7      5.8S 130.5E   69KM  5.9  BANDA SEA
                           H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB   P        Z   03 21 58.0       51
              (*PP)    Z       22 28
        MJZ   P        Z   03 22 00.0       52
              (*PP)    Z       29.7
               PCP     Z       23 11.0
        KRP   P        Z   03 22 01.7       52
              (*PP)    Z       30.2
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                PCP     Z          23 13
          MNG   P       Z    03 22 13          53
                PCP     Z          23 23
          SBA   IP      ZNE  03 24 30.8        74

           H  M  S      EPICENTRE    DEPTH  MAG
SEP 08     06 30 34.0   43.2N 145.5E  69KM  5.2  HOKKAIDO
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   EP      Z    06 43 14          85
          MNG   EP      Z    06 43 38          88

SEP 08    RAO   P       Z    10 38 04.5
          WTZ   P       Z    10 39 31
                ES      Z       42 16
          KRP   P       Z    10 39 36.0
          GNZ   P       Z    10 39 37
                ES      ZNE     42 26
          MNG   P       Z    10 40 02
                S       Z       43 04
          WEL   S       ZNE  10 43 18
          COB   P       Z    10 40 09.0

           H  M  S      EPICENTRE    DEPTH  MAG
SEP 08     11 07 43.0   3.2S 146.9E   22KM  5.0  BISMARCK SEA
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   EP      Z    11 15 46          43
          COB   EP      Z    11 15 53          44
                *PP     Z       16 00
          GNZ   P       ZNE  11 16 00          45
                *PP     Z       11
          MNG   EP      Z    11 16 05          45
          SBA   EP      ZNE  11 19 31.8        75

           H  M  S      EPICENTRE    DEPTH  MAG
SEP 08     11 34 46.2   71.6N  10.0W  33KM  5.7  N. OF ICELAND
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   PKP     Z    11 54 28.0        146
                E       ZNE     35.0
                E       ZN      39.2
                E       Z       47
          GNZ   PKP     ZNE  11 54 25.8        147
                E       ZNE     29
                E       ZNE     35.5
                E       ZNE     40.3
                E       ZNE  55 08.5
                E       ZNE     22
          MNG   EPKP    Z    11 54 31          149
                E       Z       48.0
                E       Z    55 00.3
          MJZ   EPKP    ZNE  11 54 38.0        152
                E       ZNE     42.0
                I       ZNE     52.1
                E       ZNE     01.0
          SBA   EPKP2   ZNE  11 56 26          174
                EPP     ZNE  12 00 14
                ESS     ZNE     21 50
                ESSS    ZNE     28 36

           H  M  S      EPICENTRE    DEPTH  MAG
SEP 08     11 40 06.7   3.3S 146.8E   42KM  5.1  BISMARCK SEA
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P       Z    11 48 07          43
                *PP     Z       14
          GNZ   P       Z    11 48 23          45
          MNG   P       Z    11 48 23          45

SEP 08    RAO   P       Z    16 14 04.0
                (S)     Z       16
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        MNG  EP       Z   16 16 58

SEP 08  RAO   P       Z   17 41 00.8
          S           Z         16
        WTZ  EP       Z   17 42 42
             ES       Z      44 15
        GNZ   S       ZNE 17 44 20
        MNG  ES       Z   17 45 20

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 08  17 51 36.0    15.3S 175.5W  33KM  5.2  TONGA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       ZNE 17 52 24          4
              S       ZNE    53 22
              T       ZNE    56 00
        RAR  EL       ZNE 17 58 45         16
        KRP  EP       Z   17 56 48         24
        GNZ  EP       Z   17 56 54         24
        SBA  EP       ZNE 18 02 01         63

SEP 08  MNG   P       Z   18 34 52

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 09  02 44 03.1    15.4S 175.7W  35KM  5.9  TONGA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP      Z   02 44 54.5D   4
              S       ZNE    45 20
        NDF  EP       Z   02 45 49          7
             ES       Z      47 20
        RAR  EP       ZNE 02 47 45         16
             ES       ZNE    50 42
             EL       ZNE    51 00
        CRZ  EP       ZNE 02 48 55         22
        KRP   P       ZNE 02 49 13         24
        GNZ   P       ZNE 02 49 18         24 -0.14                        6.2
        MNG  EP       Z   02 49 37         26
        WEL   P       ZNE 02 49 34         27
              LQ      ZNE    55 57
        MNW  EP       Z   02 50 45         33
        SBA  EP       ZNE 02 54 29         63
             EPCP     ZNE    55 02
             ES       ZNE 03 03 10
             ESS      ZNE    07 12
             ELQ      ZNE    10 22
             ELR      ZNE    13 10

SEP 09  RAO   P       Z   03 37 20.0
          S           Z         40

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 09  05 48 21.7    3.2S 146.9E   7KM  4.9  BISMARCK SEA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP       ZNE 06 00 14         75

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 09  06 50 33.3    6.7S 155.1E  39KM  4.9  SOLOMON IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  EP       Z   06 55 50         24
        KRP  EP       Z   06 57 42         36
             PCP      Z   07 00 08

SEP 09  NDF   P       Z   10 21 02.1
              S       Z         18.0

SEP 09  NDF  EP       Z   10 29 10.5
             I        Z         22.2
             I        Z         28.6
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SEP 09	NDF	P	Z	10	33	04.8															
		S	Z			23.0															
SEP 09	RAO	P	Z	12	56	58.0															
		S	Z		57	25															
SEP 09	RAO	P	Z	15	30	39.3															
		S	Z			52															
	H	M	S	EPICENTRE			DEPTH	MAG													
SEP 09	20	16	33.2	6.4S	128.5E		337KM	5.0	BANDA SEA												
							H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	NDF	P	Z	20	24	50.2U					49										
	MSZ	P	Z	20	25	06.0					51										
		E*PP	Z		26	18															
	MNW	P	Z	20	25	09.0					52										
	MJZ	P	ZNE	20	25	12.0					52	-0.90								5.6	
		*PP	Z		26	26															
	KRP	P	Z	20	25	18.0					53										
		PCP	Z		26	22															
	MNG	P	Z	20	25	24					54										
	GNZ	P	Z	20	25	31.4					55										
		*PP	Z		26	47															
	SBA	EP	ZNE	20	27	34.5					74										
SEP 09	RAO	P	Z	23	44	58															
SEP 10	KRP	P	Z	00	25	09															
SEP 10	RAO	P	Z	02	42	45															
		ES	Z		43	17															
	KRP	E(P)	Z	02	45	43															
SEP 10	RAO	EP	Z	03	38	46															
		ES	Z		39	08															
SEP 10	RAO	EP	Z	03	40	16															
		ES	Z			37															
	H	M	S	EPICENTRE			DEPTH	MAG													
SEP 10	06	03	25.7	20.2S	168.8E		39KM	5.4	LOYALTY IS												
							H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	NDF	P	Z	06	05	32.9					9										
		ES	Z		07	05.5															
	CRZ	P	ZNE	06	07	01					15										
	KRP	P	Z	06	07	43					19										
	AFI	P	Z	06	07	51					20										
		S	ZNE		11	44															
		LR	ZNE		13																
	GNZ	P	ZNE	06	07	57					20										
		S	ZNE		12	06															
	MNG	P	Z	06	08	08.7					21	-0.61								5.6	
	COB	EP	Z	06	08	14					21										
	WEL	P	ZNE	06	08	14					22										
		S	ZNE		12	14															
		LQ	E		13																
		LR	ZNE		14	35															
	MJZ	P	ZNE	06	08	40.0					24										
	MSZ	P	Z	06	08	44.0					24										
	MNW	EP	Z	06	09	00					26										
	RAR	EP	ZNE	06	09	29					29										
		ES	ZNE		14	24															
		EL	ZNE		16	48															
	SBA	EP	ZNE	06	13	14					58										
		ES	ZNE		21	17															
		ESCS	ZNE		23	00															
		ELQ	ZNE		27	53															

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SEP 10  RAO   P        Z   06 32 29

SEP 10  MNG   EP       Z   08 39 07

          H  M   S      EPICENTRE    DEPTH  MAG
SEP 10  08 41 27.4   18.8S 177.6W 541KM  4.9  FIJI REGION
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z   08 43 01.3      5
              E        Z      09.4
              E        Z      34
            E(S)       Z      44 27.5
        AFI   IP       Z   08 43 21.8      7
              S        ZNE    44 50
        RAO   P        Z   08 43 51.0     10
              S        Z      45 46
        CRZ   P        Z   08 45 08       18
        KRP   P        Z   08 45 26.0     20
        MNG   EP       Z   08 45 48       23
              ES       Z      49 14
        COB   P        Z   08 45 57       24
              S        Z      49 33
        MJZ   P        Z   08 46 30       27
        MSZ   P        Z   08 46 41       29
        MNW   P        Z   08 46 50.1     30
        SBA   IP       ZNE 08 50 42.5     60

SEP 10  NDF   EP       Z   09 02 23

          H  M   S      EPICENTRE    DEPTH  MAG
SEP 10  09 16 35.5   20.3S 168.6E  33KM  4.7  LOYALTY IS
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   09 18 40       9
        MNG   P        Z   09 21 16.0     21
              *PP      Z      26

          H  M   S      EPICENTRE    DEPTH  MAG
SEP 10  10 07 12.6   20.4S 169.0E  35KM  4.7  NEW HEBRIDES
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   10 09 21       8
        MNG   EP       Z   10 11 54      21
        SBA   EP       ZNE 10 17 01      58

          H  M   S      EPICENTRE    DEPTH  MAG
SEP 10  10 48 28.2   20.3S 169.9E  41KM  4.7  LOYALTY IS
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   10 50 34       8
        MNG   P        Z   10 53 10.0     21
              *PP      Z      20.6
        SBA   EP       ZNE 10 58 15.5     58

SEP 10  MNG   P        Z   11 03 50

          H  M   S      EPICENTRE    DEPTH  MAG
SEP 10  11 07 31.2   20.1S 168.8E  58KM  5.2  LOYALTY IS
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P        Z   11 09 34.5U     9
              ES       Z      10 42
        KRP   P        ZNE 11 11 46       19 +0.73                      5.4
              *SP      ZE     12 02
        WTZ   EP       Z   11 11 54       19
        AFI   P        Z   11 11 58       20
              S        ZNE    15 44
              LQ       ZE     17
              LR       N      18
        GNZ   P        ZNE 11 12 01.0     20
        MNG   P        Z   11 12 12.7J    21
              *PP      Z      25.3
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                S       Z       15 57
          COB   P       Z   11  12 14.0      21 -0.73                          5.5
          WEL   P       Z   11  12 20        22
                S       ZNE     16 20
          MJZ   P       ZNE 11  12 41        24
          MSZ   EP      Z   11  12 47        25
          MNG   EP      Z   11  13 13        26
          SBA   IP      ZNE 11  17 18        58

SEP 10    MNG   P       Z   11  54 43

SEP 10    RAO   EP      Z   12  09 49
                S       Z       10 51

SEP 10    AFI   P       Z   12  51 00
                S       ZNE     27

SEP 10    RAO   P       Z   13  16 31.1
                S       Z       49

SEP 10    MNG   EP      Z   15  20 04
                E       Z       14

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 10    19 39 12.0    17.8S 178.6W 592KM  4.9  FIJI REGION
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP      Z   19  40 37.5       4
          AFI   P       Z   19  41 07         8
                S       ZNE     42 38

SEP 10    RAO   P       Z   21  45 33.0
                S       Z       46 10

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 10    21 48 27.2    20.5S 168.8E  20KM  4.9  LOYALTY IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP      Z   21  50 35.5       9
          KRP   EP      Z   21  52 55        18
          COB   P       Z   21  53 22        21
          SBA   EP      ZNE 21  58 16        57

SEP 10    CBZ   EP      Z   22  12 24

SEP 11    MSZ   P       Z   02  04 25
          MNG   P       Z   02  04 56

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 11    02 46 38.9    3.3S 149.4E   33KM  4.8  BISMARCK SEA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   EP      Z   02  54 37        42
          MNG   EP      Z   02  54 43        44

SEP 11    AFI   P       Z   08  21 40
                S       ZNE     22 02

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 11    08 33 21.9    3.2S 150.2E    4KM  4.8  NEW IRELAND
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P       Z   08  41 12.0      42
          COB   P       Z   08  41 23.0      43
          MNG   P       Z   08  41 28.0      44

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 11    10 36 56.9    3.6S 149.8E   33KM  5.2  BISMARCK SEA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP      Z   10  43 09        31
          AFI   P       Z   10  44 26        39
                E       N       50 32
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		S	ZNE		53 28										
	KRP	P	Z	10	44 42.0		41								
	COB	P	Z	10	44 52		43								
	GNZ	P	ZNE	10	44 56		43								
	MNG	P	Z	10	44 58		44								
		*PP	Z		45 07										
	MSZ	P	Z	10	45 04		44								
	MJZ	P	Z	10	45 11		44								
	SBA	EP	ZNE	10	48 35		75								
		ES	ZNE		58 19										

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 11	11	17	21.5	3.5S	149.9E	17KM	5.5	BISMARCK SEA

			H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP?	Z	11	23 40.5		30								
	AFI	P	Z	11	24 51		39								
		S	ZNE		34 06										
	KRP	P	Z	11	25 09.8		42	-0.75							6.0
	COB	P	Z	11	25 19		43								
	GNZ	P	ZNE	11	25 23		43								
		*PP	ZNE		29.0										
	MNG	P	Z	11	25 24		44	-1.05							5.8
	SBA	EP	ZNE	11	29 02		75								

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 11	11	27	43.9	8.5N	102.9W	33KM	5.0	CENTRAL AMERICA

			H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	11	40 33.0		89								

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 11	11	50	25.9	20.5S	168.8E	44KM	4.2	LOYALTY IS

			H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	11	52 31.5		9								
	MNG	P	Z	11	55 07.0		21								

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 11	13	35	48.5	3.2S	130.8E	33KM	5.5	CERAM

			H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	13	44 28.3		48								
		*PP	Z		41.1										
	MSZ	P	Z	13	45 01.8		53								
		*SP	Z		17.0										
	MNG	P	Z	13	45 06.0		53								
	MJZ	P	ZNE	13	45 08		54								
		*PP	ZNE		18										
	KRP	P	Z	13	45 08.6		54								
		(*PP)	Z		21.3										
	MNG	P	Z	13	45 15.0		55								
		*PP	Z		29.0										
	AFI	P	Z	13	45 40		58								
		S	ZNE		53 52										
		LR	NE	14	00										
	SBA	EP	ZNE	13	47 40		77								
		ES	ZNE		57 28										
		ESS	ZNE	14	02 43										
		ELQ	ZNE		08 44										

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 11	16	31	57.1	3.6S	150.0E	33KM	5.2	NEW IRELAND

			H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	16	39 28		39								
		S	NE		48 32										
	KRP	P	Z	16	39 42.9		41								
	COB	P	Z	16	39 53.0		43								
	GNZ	P	ZNE	16	39 55.2		43								
	MNG	EP	Z	16	39 57		43								
	SBA	EP	ZNE	16	43 36		75								

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 11	17	24	57.1	3.7S	149.9E	33KM	5.3	BISMARCK SEA

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	S	ZNE	17	41	24		39							
		SS	ZE		44	40									
	KRP	P	Z	17	32	42.0		41							
	WTZ	P	Z	17	32	48.7		42							
	COB	P	Z	17	32	52.0		43							
	GNZ	P	ZNE	17	32	56.0		43							
	MNG	P	Z	17	32	57.3		43							
	SBA	EP	ZNE	17	36	35.2		73							
SEP 11	AFI	P	Z	19	22	11									
		S	ZNE			49									
		T	ZNE		24	34									
	WTZ	P	Z	19	26	38.0									
	KRP	P	Z	19	26	40									
	MNG	P	Z	19	27	06									
	COB	EP	Z	19	27	20									
SEP 12	RAO	P	Z	01	13	55									
		S	Z		14	06									

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 12	02	17	21.6	20.5S	168.9E	30KM	4.8	LOYALTY IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	02	19	28		9							
	AFI	S	ZNE	02	27	24		20							
	GNZ	P	Z	02	22	05		20							
	MNG	P	Z	02	22	04.5		21							
	SBA	EP	ZNE	02	27	10		57							

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 12	04	50	53.3	8.4N	103.0W	33KM	5.3	CENTRAL AMERICA

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	04	13	54		88							
SEP 12	WTZ	P	Z	04	27	59.0									
	KRP	P	Z	04	28	03.2									
	GNZ	P	Z	04	28	05.0									
	TRZ	P	Z	04	28	18.3									
	MNG	P	Z	04	28	24									
	COB	P	Z	04	28	36									
SEP 12	WTZ	P	Z	08	33	14									
	GNZ	P	Z	08	33	18									
		ES	NE		34	36									
	KRP	P	Z	08	33	22.0									
	MNG	P	Z	08	33	44.0									
		S	Z		35	27									
SEP 12	AFI	(P)	Z	09	31	36									
		S	ZNE		32	40									
	WTZ	P	Z	09	34	18									
	KRP	P	Z	09	34	28.0									
SEP 12	KRP	P	Z	11	20	21.0									
SEP 12	RAO	EP	Z	22	56	57									
		ES	Z		57	22									
	ECZ	EP?	Z	22	57	30									
	GBZ	EP	Z	22	57	44									
	WTZ	P	Z	22	57	48.0									
		S	Z		59	03									
	GNZ	P	ZNE	22	57	51									
		S	NE		59	06									
	KRP	EP	Z	22	58	00									

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        CRZ   P        ZNE 22 58 03.0
        TRZ   S        Z   22 59 38
        CNZ   P        Z   22 58 09
              ES       Z      59 46
        MNG   EP       Z   22 58 24
               S       Z   23 00 08
        WEL    S       ZNE 23 00 25
        COB   ES       Z   23 00 44
        GPZ   ES       Z   23 01 32

SEP 12  MNG    P       Z   23 10 06.8

SEP 12  KRP    P       Z   23 23 24.0
        COB   EP       Z   23 23 30
        MNG    P       Z   23 23 37.0

SEP 13  RAO   EP       Z   01 09 17
              ES       Z      10 34
        AFI    P       Z   01 10 10
               S       ZNE    12 14
        WTZ   EP       Z   01 10 46
        KRP    P       Z   01 10 50.0
        GNZ   EP       Z   01 10 50
        CNZ    P       Z   01 11 00
        MNG    P       Z   01 11 10
              ES       Z      14 08
              (SCP)    Z      15 07
        COB    P       Z   01 11 23

SEP 13  RAO    P       Z   03 57 18

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 13  04 13 20.5    37.9N  22.4E   83KM   6.0  S. GREECE
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP      ZNE 04 32 33.5     137
              EPP       ZNE    35 19
        NDF   EPKP      Z   04 33 04       150
              E         Z          23
              I         Z          38.8
              E         Z          48
        AFI   (PKP)     ZNE 04 33 11       153
        MSZ   IPKP2     Z   04 33 31.0     153
        COB   EPKP      Z   04 33 19       157
               PKP2     Z          37.5
               *PPKP    Z      34 07
        KRP   EPKP      Z   04 33 20       159
              IPKP2     Z          46.7
              E         Z      34 15.0
               SKP      Z      37 28
        CNZ   EPKP      Z   04 33 22       159
              IPKP2     Z          46.5
              I*PPKP    Z      34 12.2
              E         Z          54.7
        MNG   EPKP      Z   04 33 28       159
              IPKP2     Z          46.80
               *PPKP    Z      34 11
              E         Z          52
               SKP      Z      37 27
        WTZ    PKP2     Z   04 33 50.0     160
        TRZ    PKP2     Z   04 33 50.0     160

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 13  06 22 22.5    20.3S 168.7E   48KM   5.1  LOYALTY IS
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP        Z   06 24 28.0        9
              E         Z          43.5
              ES        Z      26 06
        KRP    P        Z   06 26 37.3       19
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        WTZ   P        Z   06 26 45.0       19
        AFI   IP       Z   06 26 49  D      20 -0.48                          5.7
              S        ZNE    32 12
        CNZ   EP       Z   06 26 49          20
        GNZ   P        ZNE 06 26 52.0       20
              ESP      ZNE    27 07.5
        TRZ   P        Z   06 26 58.0       20
        MNG   P        Z   06 27 03.9       21 -0.83                          5.4
        COB   EP       Z   06 27 05          21
        MNG   ESP      Z   06 27 18          21
              PP       Z          46.5
        WEL   EP       Z   06 27 10          22
        MJZ   EP       ZNE 06 27 41          24
        SBA   EP       ZNE 06 32 09.5        58

SEP 13  MNG   IP       Z   06 34 11.9U
              E        Z          24
        COB   P        Z   06 34 15

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 13  07 15 03.3    24.4S 179.8E  509KM  4.6  S. OF FIJI
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P        Z   07 16 33.0        5
              ES       Z      17 41
        CRZ   P        ZNE 07 17 42          12
        GBZ   P        Z   07 17 46.0        12
        KRP   EP       ZNE 07 18 02          14
              I        ZNE        05.8U
              S        E      20 38
        GNZ   P        ZNE 07 18 04.0        14
              S        ZNE    20 35
        CNZ   EP       Z   07 18 08.5        15
              I        Z          17.0
              ES       Z      20 57
        TRZ   P        Z   07 18 15          15
        TNZ   P        Z   07 18 20.0        15
        MNG   P        Z   07 18 25.0        17
              S        Z      21 14
        COB   P        Z   07 18 39.0        18
              S        Z      21 37

SEP 13  RAO   IP       Z   11 34 08.2D
        MNG   EP?      Z   11 38 34

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 13  12 52 17.6    20.4S 168.7E   32KM  5.0  LOYALTY IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP?      Z   12 54 25           9
              I        Z          27.4D
        KRP   P        ZNE 12 56 33          18
        WTZ   EP       Z   12 56 40          19
        AFI   P        ZNE 12 56 44          20
              S        NE  13 00 36
              L        ZE     02
        GNZ   EP       ZNE 12 56 47          20
              ISP      ZNE        59.0
        MNG   P        Z   12 56 58.0        21
              EPP      Z      57 08.0
        COB   EP       Z   12 57 02          21
        WEL   P        Z   12 57 04          21
              S        ZNE 13 01 02
        RAR   ES       ZNE 13 03 23          29
              ELQ      ZNE    04 35
              ELR      ZNE    06 15
        SBA   EP       ZNE 13 02 07          58
              ES       ZNE    10 07
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          H  M  S        EPICENTRE    DEPTH  MAG
SEP 13   12 58 56.1    20.5S 168.8E   88KM  4.9  LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF  EP         Z   13 00 57          9
          KRP   P         Z   13 03 05         18
          GNZ   P         ZNE 13 03 20.5       20
          MNG   P         Z   13 03 32.4       21
          COB   P         Z   13 03 35         21
          SBA  EP         ZNE 13 08 38.2       57

SEP 13    GNZ  EP         Z   13 02 33
          MNG   P         Z   13 02 40

          H  M  S        EPICENTRE    DEPTH  MAG
SEP 13   13 06 55.9    20.3S 168.8E   75KM  4.9  LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P         Z   13 08 57.8         9
          KRP  EP         Z   13 11 08          19
          WTZ  EP         Z   13 11 12          19
          AFI   P         ZNE 13 11 20          20
          GNZ  EP         ZNE 13 11 27          20
                S         ZNE    15 27
          MNG   P         Z   13 11 32.0        21
          COB  EP         Z   13 11 36          21
               (*PP)      Z      46
          SBA  EP         ZNE 13 16 40          58

SEP 13    MNG   P         Z   13 13 57.7

SEP 13    WTZ   P         Z   13 19 40
          KRP   P         Z   13 19 45.0
          GNZ   P         Z   13 19 45
          MNG   P         Z   13 20 05.0
               ES         Z      22 57
          COB   P         Z   13 20 17

          H  M  S        EPICENTRE    DEPTH  MAG
SEP 13   13 51 39.0    20.2S 168.8E   98KM  4.9  LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF  EP         Z   13 54 03.2         9
               E          Z      55 15
          KRP   P         ZNE 13 56 12          19
          WTZ   P         Z   13 56 20          19
          GNZ  EP         ZNE 13 56 27          20
          AFI   P         Z   13 56 29          20
                S         ZNE 14 01 40
          MNG   P         Z   13 56 39.0        21
                *PP       Z      50
          COB  EP         Z   13 56 40          21
               E          Z      49.5
          RAR  ES         ZNE 14 03 10          29
               EL         ZNE    03 55
          SBA  EP         ZNE 14 01 45          58

SEP 13    KRP   P         Z   14 18 33
          GNZ   P         Z   14 18 35

SEP 13    MNG  EP         Z   14 25 34

          H  M  S        EPICENTRE    DEPTH  MAG
SEP 13   14 33 38.0    20.4S 168.8E   35KM  5.9  LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF  EP         Z   14 35 44  U      9
          CRZ  EP         ZNE 14 37 04          14
          KRP   P         ZNE 14 37 52.2        19
                *SP       ZNE    38 05.4
               I          ZN        51.0
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            ES      N       41 27
             PCP    ZNE        59.0
        WTZ  P      Z   14 37 59.20     19
        AFI  P      Z   14 38 03         20
             E      E       41 54
              S     ZNE     42 06
              LQ    ZE      43
              LR    N       44
        GNZ  P      Z   14 38 07         20
        GNZ  P      ZNE 14 38 08.9       20
             I      ZE      39 34.0
             ES     E       41 57
             (PCP)  Z       42 08
             ESCP   Z       44 11
              PCS   E          16
        MNG  P      Z   14 38 19.0       21
             I*SP   Z          31.8
             IPCP   Z       42 23.0
        COB  P      Z   14 38 21.6       21
             *SP    Z          35.0
             PCP    Z       42 27
        WEL  IP     ZNE 14 38 23.50      21
        MJZ  P      ZNE 14 38 49.0       24
             (*PP)  Z       39 01
        MSZ  (P)    Z   14 39 08         24 -0.56                    5.8
        MNW  P      Z   14 39 04         25
        RAR  EP     ZNE 14 39 37         29
             EPP    ZNE     40 50
             ES     ZNE     44 32
             ELR    ZNE     47 00
        SBA  EP     ZNE 14 43 25         58
             EPCP   ZNE     44 08
             ES     ZNE     51 28
             EPS    ZNE     44
             ESCS   ZNE     53 20
             ESS    ZNE     55 43
             ELQ    ZNE     58 00
             ELR    ZNE 15 01 40

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 13  14 55 46.1   20.4S 168.9E   33KM  5.6  LOYALTY IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  P      Z   14 57 50.2       9
        KRP  P      ZNE 15 00 00         18
        WTZ  P      Z   15 00 06         19
        AFI  P      ZNE 15 00 12         20
        GNZ  P      ZNE 15 00 14.0       20
             S      ZNE     04 09
        MNG  P      Z   15 00 26.3       21
        COB  P      Z   15 00 27         21 -0.64                    5.6
        MJZ  P      ZNE 15 00 51         24
        SBA  EP     ZNE 15 05 32         58

SEP 13  AFI  P      Z   16 01 35
             S      ZNE     02 25
        KRP  P      Z   16 05 13

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 13  18 28 05.1    3.0S 150.3E   33KM  4.8  NEW IRELAND
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG  P      Z   18 36 07.0       44

SEP 14  WTZ  P      Z   09 09 40
        KRP  P      Z   09 09 41.8
```

	H M S	EPICENTRE	DEPTH	MAG									
SEP 14	09 24 12.0	20.5S 168.9E	33KM	5.3	LOYALTY IS								
		H M S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF IP	Z 09 26 18.8J		9								
	I	Z 27 17.3										
	KRP P	ZNE 09 28 26.6		18								
	AFI P	Z 09 29 40		20								
	S	ZNE 32 28										
	L	ZNE 34										
	GNZ P	ZNE 09 28 41.0		20								
	MNG P	Z 09 28 53.3J		21	-0.87							5.4
	COB P	Z 09 28 55.0		21								
	WEL EP	Z 09 29 06		21								
	S	E 33 00										
	LQ	NE 34										
	LR	ZNE 36										
	MJZ P	ZNE 09 29 24.2		23								
	MSZ P	Z 09 29 36.0		24								
	RAR ES	ZNE 09 35 20		29								
	SBA EP	ZNE 09 34 00		37								

	H M S	EPICENTRE	DEPTH	MAG									
SEP 14	12 38 12.5	18.6S 169.0E	211KM	4.7	NEW HEBRIDES								
		H M S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF IP	Z 12 40 08.0		8								
	CRZ P	ZNE 12 41 49.0		16								
	GBZ P	Z 12 42 14.20		18								
	I	Z 17.2										
	KRP EIP	ZNE 12 42 30.0DN		20	-0.48							5.9
	I	Z 32.4										
	SCP	Z 49 55										
	WTZ P	Z 12 42 35.7		21								
	EDZ P	Z 12 42 38.6		21								
	TNZ P	Z 12 42 43		21								
	ONZ P	Z 12 42 44.0		21								
	I	Z 45.9										
	PCP	Z 46 57										
	SCP	Z 49 57										
	GNZ P	ZNE 12 42 44.0		21								
	S	ZNE 46 28										
	TRZ P	Z 12 42 49.8		22								
	MNG IP	Z 12 42 55.20		23								
	I	Z 43 06										
	*PP	Z 37.9										
	PCP	Z 46 51										
	SCP	Z 50 00										
	COB P	Z 12 42 57.1		23								
	WEL P	Z 12 43 00.5		23	-0.13							6.4
	MJZ P	Z 12 43 21.0		25								
	SBA IP	ZNE 12 47 53 D		59	-0.71							6.1

	H M S	EPICENTRE	DEPTH	MAG									
SEP 14	12 46 56.1	4.3S 153.0E	48KM		NEW IRELAND								
		H M S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 12 54 22		39								
	COB P	Z 12 54 34.0		41								
	MNG P	Z 12 54 38.4D		41	-1.16							5.6
SEP 14	NDF P	Z 13 58 59.0										
	AFI P	Z 13 59 07										
	S	ZNE 14 00 21										
	KRP P	Z 14 01 58										
SEP 14	WTZ P	Z 18 20 57.0										
	ES	Z 22 21										
	KRP EP	Z 18 21 04										
	GNZ S	ZNE 18 22 30										

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        TRZ   ES       Z   18 22 55
        MNG    P       Z   18 21 26
               S       Z      23 19
        COB   ES       Z   18 23 50

SEP 15  AFI    P       Z   02 16 35
               S       ZNE    17 10
               T       ZNE    20 10

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 15  03 13 09.9     17.9S 178.6W 600KM  5.0  FIJI REGION
                          H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP       Z   03 14 33.8U      4
              ES       Z      15 47.5
        AFI    P       ZNE 03 15 02         8
               S       ZNE    16 31
        KRP   EP       Z   03 17 11        21
        GNZ   EP?      Z   03 17 11        21
              EP?      Z      19.5
        MNG   EP       Z   03 17 31        23
        COB   EP       Z   03 17 43        24
        SBA   IP       ZNE 03 22 24.8      60

SEP 15  KRP    P       Z   05 29 17.0
        WTZ    P       Z   05 29 21.8
        GNZ    P       ZNE 05 29 29
        MNG    P       Z   05 29 42.0U
        COB    P       Z   05 29 44.0
        WEL    P       Z   05 29 49
        MJZ    P       Z   05 30 08

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 15  07 38 50.5     9.8S 152.0E  14KM   5.0  D ENTRECASTEAUX IS
                          H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P       Z   07 45 53        35
        MNG    P       Z   07 46 07        37
        MSZ   EP       Z   07 46 13        37

SEP 15  WTZ   EP       Z   12 32 51
              ES       Z      34 50
        GNZ   EP       Z   12 32 59
               S       ZNE    34 56
        MNG   EP       Z   12 33 23
              ES       Z      35 47

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 15  13 18 45.4     20.1S 168.8E  21KM   5.2  LOYALTY IS
                          H  M  S  DIR DIS LGWA/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P       Z   13 20 53.2       9
        KRP    P       ZNE 13 23 06        19
        AFI    P       Z   13 23 12        20
               S       ZNE    27 00
              LQ       ZE     28
              LR       N      29
        GNZ    P       ZNE 13 23 20.8D     20  -0.42                       5.8
               S       NE     27 21
        MNG    P       Z   13 23 31.8       21
        COB   EP       Z   13 23 35.0       21
        WEL   EP       Z   13 23 36         22
               S       ZNE    27 39
              LQ       NE     29
              LR       ZNE    31
        MJZ   EP       ZNE 13 24 07        24
        SBA   EP       ZNE 13 28 36.5      59
              ES       ZNE    36 40
              BL       ZNE    43 20

SEP 15  MNG    P       Z   16 38 34.2         -1.08
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                E        Z              38.0
          COB   EP       Z    16 38 37

SEP 15    MNG   P        Z    17 33 06.0

           H  M  S         EPICENTRE     DEPTH  MAG
SEP 15    17 46 50.8    20.4S 168.7E   25KM  5.4  LOYALTY IS
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P        Z    17 49 00.9       9
          GBZ   EP       Z    17 50 51        17
          KRP   EP       Z    17 51 07.8      18
          WTZ   P        Z    17 51 14        19
          AFI   P        ZNE  17 51 22        20
                S        ZNE     56 52
          GNZ   P        ZNE  17 51 22        20
          MNG   P        Z    17 51 33.8      21
                I        Z       52 05.9
          COB   P        Z    17 51 35.5      21
          WEL   EP       Z    17 51 40        21
                S        NE      55 40
          MJZ   P        ZNE  17 52 03        24
          MSZ   P        Z    17 52 06        24
          RAR   ES       ZNE  17 57 53        29
                EL       ZNE     59 10
          SBA   EP       ZNE  17 56 39        58
                ES       ZNE  18 04 43
                ESCS     ZNE     06 33
                EL       ZNE     11 23

           H  M  S         EPICENTRE     DEPTH  MAG
SEP 15    21 25 49.7    24.9N 123.7E  117KM  5.0  RYUKYU IS
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P        Z    21 37 43.0       79
          MNG   P        Z    21 37 51.9       81

           H  M  S         EPICENTRE     DEPTH  MAG
SEP 15    21 43 34.1    17.2S 178.9W  539KM  5.3  FIJI REGION
                                H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   IP       Z    21 44 52.00      4
                ES       Z       45 58
          AFI   P        Z    21 45 24         8
                S        ZNE     46 55
                T        ZNE     52 23
          RAO   S        Z    21 48 19        12
          RAR   EP       ZNE  21 47 17        18
                ES       ZNE     50 26
          CRZ   P        ZNE  21 47 21.0      19
          ONE   P        E    21 47 29        19
                S        E       50 41
          GBZ   P        Z    21 47 27.0      20
          WTZ   P        Z    21 47 37.6      21
          KRP   P        ZNE  21 47 42.00     21  -0.82                        5.7
                S        N       51 14
          GNZ   P        ZNE  21 47 42        22
                S        ZNE     51 04
          CNZ   P        Z    21 47 51        22
          TNZ   P        Z    21 47 55        23
          MNG   EP       Z    21 48 01        24
          WEL   P        Z    21 48 08        25
          COB   P        Z    21 48 12.6      25
          MJZ   EP       ZE   21 48 40.8      28
                E        ZNE        42.5
                  PP     ZNE     50 22.0
                SCS      ZE      58 25
          OMZ   P        Z    21 48 50        29
          MSZ   P        Z    21 48 54.0      30  -0.72                        5.8
          MNW   P        Z    21 49 03.0      31
          WPZ   P        Z    21 49 07.3      31
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                *PP      Z       50 25
          SBA   EP       ZNE 21 52 56        61

SEP 15    RAO    P       Z   22 48 11
                 S       Z       26
          CRZ    P       ZNE 22 49 59.0

           H  M  S        EPICENTRE    DEPTH  MAG
SEP 15    23 23 13.7     19.6S 169.0E   51KM        NEW HEBRIDES
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   23 27 31.8      19
          COB    EP      Z   23 27 59.0      22

           H  M  S        EPICENTRE    DEPTH  MAG
SEP 15    23 27 49.6     18.0S 178.0W  614KM  4.6  FIJI REGION
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF    P       Z   23 29 19.6      4
                 E       Z       30 39
          AFI    P       Z   23 29 42        7
                 S       ZNE     31 14

           H  M  S        EPICENTRE    DEPTH  MAG
SEP 16    02 21 20.9     12.5S 167.1E  214KM  4.8  SANTA CRUZ IS
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          COB    EP      Z   02 27 02        29
          SBA    EP      ZNE 02 31 41.5      65

SEP 16    RAO    IP      Z   03 20 33.0
                 ES      Z       47
          CRZ    P       ZNE 03 22 34
          KRP    EP      Z   03 22 49
          GNZ    ES      ZNE 03 24 03
          MNG    EP      Z   03 23 02
                 ES      Z       25 00
          COB    EP      Z   03 23 34
                 ES      Z       25 40

           H  M  S        EPICENTRE    DEPTH  MAG
SEP 16    03 35 47.9     28.7S  68.4W   95KM  5.4  ANDES
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA    EP      ZNE 03 46 44.2      69
          MJZ    P       Z   03 49 08.0      90
          COB    P       Z   03 49 10.0      90
          KRP    P       Z   03 49 13        91

           H  M  S        EPICENTRE    DEPTH  MAG
SEP 16    04 15 09.8      9.5S 148.7E    4KM  5.3  NEW GUINEA
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       Z   04 22 28.0      37
          MNG    EP      Z   04 22 42        39

           H  M  S        EPICENTRE    DEPTH  MAG
SEP 16    05 23 09.2     41.2S  85.8W   33KM  4.3  W. OF CHILE
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA    EP      ZNE 05 32 21        54
                 ES      ZNE     40 05
                 ELR     ZNE     48 10

SEP 16    AFI    P       Z   06 03 02
                 S       ZNE     24

           H  M  S        EPICENTRE    DEPTH  MAG
SEP 16    09 14 34.6     15.2N  96.2W   33KM  6.0  CENTRAL AMERICA
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAR    ESKS    ZNE 09 36 05        72
                 ELR     ZNE     47 30
          AFI    S       ZNE 09 37 12        80
                 SS      Z       42 06
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                LQ      N       48
                LR      ZE      51
          SBA   EPP     ZNE 09  33  08.5     106
                EPS     ZNE     42  30
                ESS     ZNE     48  47
                ELR     ZNE 10  04  40

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 16     10 21 15.6    3.0S 150.6E   37KM  4.3  NEW IRELAND
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           KRP   P       Z   10 29 17.0      42

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 16     10 43 32.7    20.6S 174.8W  33KM  4.6  TONGA
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           AFI   P       Z   10 45 18          7
                 S       ZNE     46 35
           NDF   EP      Z   10 45 42.5        8

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 16     10 51 38.6    2.2N 128.2E  147KM  5.6  HALMAHERA
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           NDF   EP      Z   11 00 38          52
           MSZ   P       Z   11 01 22.8        59
           MNW   P       Z   11 01 25          59
           COB   P       Z   11 01 25.0        59
           KRP   P       Z   11 01 26.0        59
           MJZ   P       Z   11 01 28.0        60
           MNG   P       Z   11 01 33.7        61
           GNZ   P       Z   11 01 39.0        61
           SBA   EP      ZNE 11 03 46.5        83

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 16     11 36 43.7    10.7S 161.4E  35KM  4.9  SOLOMON IS
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           MNG   P       Z   11 43 11          32

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 16     12 11 26.6    10.6S 161.2E  56KM  5.5  SOLOMON IS
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           NDF   EP      Z   12 15 24.8        17
           AFI   P       Z   12 17 00          27
                 S       ZE      21 44
                 LQ      N       22
                 LR      ZE      24
           KRP   P       Z   12 17 32.0        30
                 PCP     Z       20 33
           CNZ   P       Z   12 17 42.0        31
           GNZ   P       ZNE 12 17 45.5        32
           COB   P       Z   12 17 49.0        32
           MNG   P       Z   12 17 51.2        32
           MJZ   P       ZNE 12 18 08.1        34
           MSZ   P       Z   12 18 10.1        34  -1.16                    5.7
           MNW   P       Z   12 18 17.8        35
           SBA   EP      ZNE 12 22 17          67
                 ES      ZNE     31 15

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 16     12 48 15.2    10.7S 161.5E  20KM  4.8  SOLOMON IS
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           MNG   EP      Z   12 54 44.0        32
           MJZ   EP      Z   12 54 58          34
           MSZ   EP      Z   12 55 03          34

SEP 16     MNG   P       Z   13 14 26.0
           CRZ   P?      Z   13 14 29
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	H M S	EPICENTRE	DEPTH	MAG	
SEP 16	14 04 39.8	0.7N 126.0E	65KM	5.5	MOLUCCAS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ	P	Z	14	14	40.0		60							
	GNZ	P	Z	14	14	53.0		62							
	SBA	EP	ZNE	14	16	53		81							
SEP 16	AFI	IP	Z	14	55	22.20									
		S	ZNE		56	09									

	H M S	EPICENTRE	DEPTH	MAG	
SEP 16	15 53 18.3	10.6S 161.2E	52KM	5.4	SOLOMON IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z	16	17	17									
		E	Z			32									
	AFI	P	Z	15	58	52		27							
		S	ZNE	16	04	44									
		L	ZE		06										
	KRP	EP	ZNE	15	59	25		30							
	GNZ	P	ZNE	15	59	37.0		32							
	MNG	P	Z	15	59	43.9		32							
	MJZ	EP	ZNE	16	00	01		34							
	MSZ	EP	Z	16	00	06		34							
	SBA	EP	ZNE	16	04	09		67							
SEP 16	AFI	P	Z	16	40	55									
		S	ZNE		41	15									
SEP 16	KRP	P	Z	16	58	45.3									
	MNG	P	Z	16	59	01.6									
SEP 16	MSZ	P	Z	18	35	26.0									
	KRP	EP	Z	18	35	32.0									
	COB	EP	Z	18	35	32									
	MJZ	P	ZNE	18	35	32.2			-1.17						
	MNG	EP	Z	18	35	38									
SEP 16	AFI	P	Z	21	32	19									
		S	ZNE			39									

	H M S	EPICENTRE	DEPTH	MAG	
SEP 17	00 56 47.0	1.8N 126.9E	68KM	5.3	MOLUCCAS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z	01	06	40.5		59							
	COB	P	Z	01	06	45.0		60							
	KRP	EP	Z	01	06	47		60							
	MJZ	P	ZNE	01	06	47.4		60	-1.24						6.0
	MNG	P	Z	01	06	54.0		61							

	H M S	EPICENTRE	DEPTH	MAG	
SEP 17	03 30 12.0	10.7S 161.3E	60KM	5.1	SOLOMON IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z	03	34	10.5		17							
	KRP	P	Z	03	36	16.8		30							
	COB	P	Z	03	36	34.0		32							
	MNG	P	Z	03	36	36.0		32							
	MJZ	P	Z	03	36	41.9		34							
	MSZ	EP	Z	03	36	56		34							
SEP 17	RAO	P	Z	07	57	08.9			-0.98						
		S	Z			43									
	MNG	ES	Z	08	02	10									

	H M S	EPICENTRE	DEPTH	MAG	
SEP 17	09 18 49.7	20.5S 178.8W	625KM	4.4	FIJI REGION

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z	09	20	20.1J		4							

	AFI	(P)	Z	09	21	16		9							
		S	ZNE		22	40									
	CRZ	P	ZN	09	22	12.0		16							
	GBZ	P	Z	09	22	12		16							
	WTZ	P	Z	09	22	21.0		18							
	KRP	P	ZE	09	22	25.7		18	-0.95						5.3
	GNZ	P	ZE	09	22	27.0		18							
	MNG	P	Z	09	22	45.0		21							
		SCP	Z		29	11.0									
	WEL	P	Z	09	22	53.7		21							
	COB	P	Z	09	22	57.0		22							
	MNW	P	Z	09	23	50.0		28							
	SBA	EP	ZNE	09	27	45		58							

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 17	14	07	15.6	38.3N	20.3E	33KM	5.6	GREECE

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPKP	ZNE	14	26	41		138							
		EPP	ZNE		29	26.2									
		EPKS	ZNE		30	13									
	NDF	EPKP	Z	14	27	10		151							
	MJZ	EPKP	Z	14	27	42		157							
		E	Z			47									
	KRP	PKP	Z	14	27	57.0		161							
		E	Z		28	05.4									
	MNG	EPKP	Z	14	27	57		161							

SEP 17	AFI	(P)	Z	14	27	17

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 17	16	18	13.6	24.4S	13.0W	33KM	4.8	S. ATLANTIC RIDGE

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	16	30	10		78							

SEP 17	NDF	IP	Z	17	22	02.9U

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 17	17	37	48.5	35.9N	73.3E	33KM	5.4	KASHMIR

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPKP	ZNE	17	56	46		126							

SEP 17	AFI	IP	Z	19	47	42.5U
		S	ZNE		48	08

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 17	23	25	26.4	31.8N	141.6E	16KM	4.8	S. OF HONSHU

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	23	37	29.8		76							
	MNG	P	Z	23	37	29.2		79							

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 18	00	50	34.6	24.8S	179.8E	499KM	4.7	S. OF FIJI

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P	Z	00	52	01.0		9							
		S	Z		53	11									
	NDF	P	Z	00	52	24.8		7							
	AFI	P	Z	00	53	27		13							
		S	ZNE		55	42									
	KRP	EP	ZNE	00	53	30		14							
		E	ZNE			34.0									
		E	ZNE		54	02									
	GNZ	S	ZNE	00	56	00		14							
	MNG	P	Z	00	53	55.0		16							
		S	Z		56	40									
		SCP	Z	01	01	07.8									
	WEL	P	Z	00	54	04		17							
		ES	Z		56	53									
	COB	P	Z	00	54	07.4		17	-0.97						5.5

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            E       Z       55 01
              S     Z       57 03
        SBA   IP    ZNE 00 59 09.5      53

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 18  07 14 18.8   20.4S 168.2E   10KM  4.7  LOYALTY IS
                        H  M  S   DIR DIS LGM AZ TZ  AN TN  AE TE  MAG
        KRP   EP      Z   07 18 47        19
        MNG   EP      Z   07 19 04        21

SEP 18  AFI    P      Z   07 30 46
               S      ZNE    31 04

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 18  08 12 04.3   52.6S  19.1E  33KM  4.8  S. ATLANTIC OCEAN
                        H  M  S   DIR DIS LGM AZ TZ  AN TN  AE TE  MAG
        SBA   EP      ZNE 08 20 42        48

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 18  08 57 10.1   10.9S 161.4E  26KM  5.0  SOLOMON IS
                        H  M  S   DIR DIS LGM AZ TZ  AN TN  AE TE  MAG
        NDF   EP      Z   09 01 12        17
        AFI    S      NE  09 08 48        26
        KRP    P      Z   09 03 18.5      30
        MNG    P      Z   09 03 37.9      32
        SBA   EP      ZNE 09 08 04        67

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 18  10 42 49.8   20.6S 168.5E  21KM  4.8  LOYALTY IS
                        H  M  S   DIR DIS LGM AZ TZ  AN TN  AE TE  MAG
        NDF   EP?     Z   10 44 57        9
        KRP    P      ZNE 10 47 06.3      18
              (*PP)   Z       17.5
        GNZ    P      ZNE 10 47 28        20
        AFI    S      ZNE 10 53 12        25
        MNG    P      Z   10 47 32.3      21
               S      Z       43.0
        COB    P      Z   10 47 33.5      21
               *PP    Z       44
        MJZ    P      ZNE 10 48 13.3      23
        SBA   EP      ZNE 10 52 37.5      57

SEP 18  RAO    P      Z   12 09 01
               S      Z       11

SEP 18  KRP    P      Z   17 20 23.5
        MSZ    P      Z   17 20 26.2

SEP 18  AFI    P      Z   18 04 50
               S      ZNE     06 05
               T      ZNE     12 32
        NDF   EP      Z   18 05 12
        MNG   EP      Z   18 07 54
              ES      Z       11 41
        COB    P      Z   18 08 07

SEP 18  RAO    P      Z   18 11 38
               S      Z       13 16
        WTZ    P      Z   18 13 04.0          -1.26
              ES      Z       15 56
        KRP    P      Z   18 13 08.7
        MNG    P      Z   18 13 29.0
             E(S)     Z       16 37
        COB    P      Z   18 13 40
               S      Z       16 58
        MNW    P      Z   18 14 33.0
        SBA   EP      ZNE 18 19 30
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	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 18	20	35	38.2	10.0S	119.6E	46KM	5.7	S. OF FLORES

			H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
MSZ	P	Z	20	45	00.2		54								
	E	Z			09.9										
MJZ	P	ZNE	20	45	09.9		55								
	*PP	ZNE			25.0										
COB	P	Z	20	45	16.8		56								
NDF	EP	Z	20	45	19		57								
KRP	P	Z	20	45	24.0		57								
	*SP	Z			48										
MNG	P	Z	20	45	26.7		58								
	E	Z			36.3										
	*PP	Z			47.0										
SBA	EP	ZNE	20	46	59		72								

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 19	01	36	52.4	19.5N	70.1W	33KM	5.8	CARIBBEAN SEA

			H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAR	EL	ZNE	02	22	15		97								
AFI	S	NE	02	01	52		105								
	L	ZNE			26										
SBA	EPKP	ZNE	01	55	33		116								
MNG	PKP	Z	01	55	46.8		121								
MJZ	PKP	Z	01	55	53		124								

SEP 19	RAO	P	Z	13	31	02									

SEP 19	NDF	EP	Z	15	14	20									

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 19	15	58	19.1	5.7S	148.1E	202KM	5.4	NEW BRITAIN

			H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
CRZ	P	ZNE	15	15	08.0		37	-0.34							6.2
	PCP	Z		17	28										
AFI	P	ZNE	15	15	41		40								
	PPP	Z		17	40										
	S	NE		21	32										
	LQ	Z		23											
	LR	NE		24											
KRP	P	ZNE	15	15	41.9		41	-0.42							6.1
	(*PP)	Z		16	34										
	PCP	Z		17	39.8										
WTZ	P	Z	15	15	48.0		42								
	PCP	Z		17	40.0										
COB	P	Z	15	15	50.6		42	-0.26							6.2
	PCP	Z		17	43.0										
GNZ	P	ZNE	15	15	56.0		43	0.04							6.5
	*PP	Z		16	39										
	PCP	Z		17	47										
MNG	P	Z	15	15	56.2		43	-0.28							6.1
	*PP	Z		16	41.0										
WEL	P	ZNE	15	15	57		43								
MSZ	P	Z	15	15	57.1		43	-0.70							5.7
MJZ	P	ZNE	15	15	59.6		43	-0.78							5.6
	E	ZNE		16	20										
	PCP	Z		17	46.3										
MNW	P	Z	15	16	04.0		43	-0.62							5.9
RAR	EP	ZNE	15	17	15		53								
SBA	EP	ZNE	15	19	27		73								
	ES	ZNE		28	40										

	H	M	S	EPICENTRE		DEPTH	MAG	
SEP 19	17	40	13.6	19.2S	173.8W	55KM	5.4	TONGA

			H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	P	Z	17	41	31		6								
	S	ZNE		42	26										

		T	ZNE		46	27											
		T(MAX)	ZE		47	25											
	NDF	P	Z	17	42	23.0		9									
	RAO	P	Z	17	42	40.3		11									
		ES	Z		44	31											
	RAR	EP	ZNE	17	43	09		13									
		ES	ZNE		45	40											
		EL	ZNE		46	05											
	CRZ	P	Z	17	44	36.7		19									
	WTZ	P	Z	17	44	46.3		20									
		ePP	Z		45	00.5											
	GNZ	EP	ZN	17	44	51.4		21									
	KRP	P	ZNE	17	44	52.9DN		21									
	MNG	P	Z	17	45	15.0		23									
		S	Z		49	23											
	WEL	P	Z	17	45	24		24									
	COB	EP	Z	17	45	29		25									
		E	Z			34											
	MJZ	EP	Z	17	46	03		28									
	MSZ	P	Z	17	46	16		30									
	SBA	P	ZNE	17	50	13		59									
SEP 20	RAO	P	Z	03	02	19.0											
		S	Z			31											
SEP 20	NDF	EP	Z	05	07	25											
		E(S)	Z			46											
		E	Z			51.5											
		I	Z		09	32											
		E	Z		10	47											
	KRP	(P)	Z	05	12	00											

	H	M	S	EPICENTRE		DEPTH	MAG										
SEP 20	07	45	17.0	19.3S	173.8W	33KM	5.4	TONGA									
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P		Z	07	46	39		6								
		S		ZNE		47	34										
		T(MAX)		ZNE		52	25										
	NDF	EP		Z	07	47	26.5		8								
	RAO	EP		Z	07	47	57		11								
		ES		Z		49	36										
	RAR	EP		ZNE	07	48	15		13								
		ES		ZNE		50	45										
		EL		ZNE		51	10										
		ET		ZNE	08	02											
	CRZ	P		ZNE	07	49	40		19								
	ONE	P		E	07	49	45.0		19								
	GNZ	P		ZNE	07	49	55.2		21	-0.52							5.7
		S		ZNE		53	31										
	KRP	P		ZNE	07	49	56.0		21	-0.69							5.5
	MNG	P		Z	07	50	18.9		23								
	WEL	EP		ZNE	07	50	26		24								
	COB	P		Z	07	50	35		25								
		ES		Z		54	53										
	MJZ	EP		ZNE	07	51	09.5		28								
	MSZ	EP		Z	07	51	24		30								
	SBA	P		ZNE	07	55	18.2		59								
		S		ZNE	08	03	33										
SEP 20	NDF	P		Z	08	24	38.5										

	H	M	S	EPICENTRE		DEPTH	MAG										
SEP 20	17	52	47.1	4.2S	101.6E	66KM	5.2	S. SUMATRA									
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	EP		Z	17	14	10		70								
	MNG	EP		Z	17	14	39		75								
	SBA	P		ZNE	17	14	51		81								

```
          H  M  S        EPICENTRE    DEPTH  MAG
SEP 20   18 41 44.0     10.9S 165.9E   47KM  5.2  SANTA CRUZ IS
                                  H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   EP                Z   18 44 52              13
         AFI    P                Z   18 46 38              22
                S                ZNE     50 44
                L                ZE      52
         KRP    P                ZNE 18 47 35.0           28

SEP 21   MSZ   EP                Z   00 22 29


SEP 21   NDF   EP                Z   00 17 40
         MNG   EP?               Z   00 22 41
         SBA    P                ZNE 00 23 06

          H  M  S        EPICENTRE    DEPTH  MAG
SEP 21   00 46 40.4      3.0N  96.2E   33KM  5.0  N. SUMATRA
                                  H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP    P                Z   00 59 24              83
         MNG   EP                Z   00 59 19              84
         SBA    P                ZNE 00 59 39              89

SEP 21   RAO    P                Z   02 16 07
                S                Z       30

SEP 21   RAO   EP                Z   09 18 02
                ES               Z       52

          H  M  S        EPICENTRE    DEPTH  MAG
SEP 21   11 35 23.3      11.0S 165.9E   49KM  4.6  SANTA CRUZ IS
                                  H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   EP                Z   11 38 26              13
               I                 Z       39.6
         KRP    P                Z   11 41 13              28
         WTZ    P                Z   11 41 18.0           29
         MNG    P                Z   11 41 33.6           31
         COB    P                Z   11 41 35              31
         MJZ    P                Z   11 41 57.0           33
         MSZ    P                Z   11 42 05              34
         SBA    P                ZNE 11 46 12              67

SEP 21   RAO   EP                Z   14 44 23
               ES                Z       52
         WTZ    P                Z   14 45 14
         GNZ    S                NE  14 46 56
         TRZ   ES                Z   14 47 30
         MNG   ES                Z   14 47 56

SEP 21   AFI    P                Z   21 01 17
                S                ZNE     02 32
                T                ZNE     08 38
         NDF   EP                Z   21 01 24
         MNG    P                Z   21 04 14.0
         COB   EP                Z   21 04 35
         MJZ   EP                Z   21 05 04
         MSZ    P                Z   21 05 20.0
         MNW   EP                Z   21 05 30

SEP 21   AFI    P                Z   22 37 23
                S                ZNE     38 00

          H  M  S        EPICENTRE    DEPTH  MAG
SEP 22   08 02 55.9      20.2S 178.0W  608KM  4.5  FIJI REGION
                                  H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF    P                Z   08 04 25.0              5
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	AFI	P	ZNE	08	04	52		9							
		S	ZNE		06	28									
	RAO	P	Z	08	04	58.1		9							
		ES	Z		06	35									
	CRZ	P	Z	08	06	17		16							
	GBZ	P	Z	08	06	21.3		17							
	KRP	IP	ZNE	08	06	36.10		19							
	TRZ	P	Z	08	06	45.0		20							
	CNZ	P	Z	08	06	45.5		20	-1.35						5.1
	MNG	P	Z	08	06	55.0		21							
	COB	P	Z	08	07	07.0		22							
	MSZ	EP	Z	08	07	54		27							
	MNW	P	Z	08	08	01		28							
SEP 22	AFI	P	Z	08	07	38									
		S	ZNE		08	05									

	H	M	S	EPICENTRE			DEPTH	MAG								
SEP 22	11	45	14.8	16.9S	174.6W		219KM	5.5	TONGA							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	Z	11	46	04		4							
			S	ZNE			36									
	NDF		IP	Z	11	47	05.4U		8							
	RAO		ES	Z	11	50	26		13							
	RAR		EP	ZNE	11	48	28		15							
			ES	ZNE		51	05									
	CRZ		P	ZNE	11	49	49		21							
	GBZ		P	Z	11	49	48		22							
	ONE		P	E	11	49	50		22							
	ECZ		P	Z	11	49	52		22							
	KRP		P	ZNE	11	50	01.0		23							
	GNZ		P	ZNE	11	50	03		23							
			S	NE		54	03									
	TNZ		P	Z	11	50	18.0		25							
	MNG		P	Z	11	50	21.0		26	-1.14						5.4
			I	Z			26.3									
	COB		P	Z	11	50	34.0		27							
	MJZ		EP	ZNE	11	51	04.0		30							
			PCP	Z		54	02									
	MSZ		P	Z	11	51	18.9		32							
	MNW		P	Z	11	51	26		33							
	WPZ		P	Z	11	51	29		33							
	SBA		IP	ZNE	11	58	14.5U		62	-0.33						6.5
			ES	ZNE	12	03	34									
			ESCS	ZNE		04	42									
			E*SS	ZNE		05	12									
SEP 22	RAO		P	Z	12	06	08.0									
			S	Z			23									
	CRZ		P	ZNE	12	07	54									
	GNZ		S	NE	12	09	22									
	MNG		ES	Z	12	10	20									

	H	M	S	EPICENTRE			DEPTH	MAG								
SEP 22	12	10	40.0	56.2S	27.5W		157KM	5.0	SOUTH SANDWICH IS							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA		EP	ZNE	12	18	47		46							
	MSZ		P	Z	12	22	25.3		79	-0.88							5.9
	COB		P	Z	12	22	39.0		82							
	KRP		P	Z	12	22	53		84							
SEP 22	KRP		P	Z	14	00	47									
	MNG		P	Z	14	01	07.0									

	H	M	S	EPICENTRE			DEPTH	MAG								
SEP 22	14	09	06.5	33.3N	140.6E		59KM	5.0	S. OF HONSHU							
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	ZNE	14	21	01.9		79	-0.88							6.1

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                PCP     Z           09.7
                *PP     Z           20.3
          COB   P       Z   14 21 10.9      80
          MNG   P       Z   14 21 12.3      80
          MSZ   P       Z   14 21 20        81

SEP 22    GNZ   EP      NE  14 12 48
                S       NE      13 56
          KRP   P       Z   14 12 53
          MNG   ES      Z   14 14 56

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 22    17 36 02.5     0.1S 123.0E  147KM  5.4  SULAWESI
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP      Z   17 45 31        56
          MSZ   P       Z   17 45 53        60  -0.77                      6.2
          MNW   P       Z   17 46 06.2      60
          COB   P       Z   17 46 01.0      61
          MJZ   P       ZNE 17 46 01.8      61  -0.98                      6.0
          KRP   P       ZNE 17 46 05.0      61
                *PP     Z       38
                PCP     Z       46
          MNG   P       Z   17 46 10  U     62
          SBA   IP      ZNE 17 48 04        81

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 22    19 57 27.4     22.3N 121.2E  33KM  5.7  TAIWAN
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP      Z   20 08 37        68
          AFI   P       Z   20 09 22        75
                S       NE      18 46
                PS      ZN      19 40
                SS      NE      23 40
                LQ      NE      28
                LR      Z       33
          KRP   EP      Z   20 09 31        79
          MSZ   EP      Z   20 09 32        79
          COB   EP      Z   20 09 35        79
          MNW   P       Z   20 09 35.0      80
          MJZ   EP      ZNE 20 09 36        80
                E       ZNE     10 26
          WEL   P       Z   20 09 36        80
          ROX   S       NE  20 19 42        80
          RAR   EP      ZNE 20 10 04        88
          SBA   PP      ZNE 20 15 38       103
                SKS     ZNE     22 09
                PS      ZNE     24 50
                SS      ZNE     30 37
                SSS     ZNE     35 00

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 22    21 34 15.0     25.1N 123.9E  33KM  4.2  TAIWAN
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P       Z   21 46 32        79
          MNG   P       Z   21 46 48.0      81

           H  M  S       EPICENTRE    DEPTH  MAG
SEP 22    22 53 13.2     20.2S 178.4W 578KM  4.2  FIJI REGION
                                H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P       Z   22 54 42         5
          AFI   IP      Z   22 55 15.0       9  -0.64
                S       ZNE     56 52
          CRZ   P       Z   22 56 34.0      16
          WTZ   P       Z   22 56 48.3      18
          KRP   P       ZNE 22 56 53.2      18
          MNG   P       Z   22 57 13.0      21
          SBA   EP      ZNE 23 02 13.5      58
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SEP 23  MNG    P       Z   01 04 42.0

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 23  01 10 18.1    21.0S 168.5E   33KM  4.9  LOYALTY IS
                          H  M  S  DIR DIS  GAP  AZ TZ  AN TN  AE TE  MAG
        NDF    P       Z   01 12 22.5       9
        KRP    P       ZNE 01 14 27.8      15
        TRZ    P       Z   01 14 49.5      20
        MNG    P       Z   01 14 55.8      20
        COB    P       Z   01 14 56.0      20
        MJZ    P       ZN  01 15 23.0      23
               ePP     ZN        33.0
        MSZ    P       Z   01 15 30.0      24
        MNW    P       Z   01 15 39.7      25
        SBA    EP      ZNE 01 20 02        57

SEP 23  MNG    P       Z   01 35 08.9
        MJZ    EP      Z   01 35 33

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 23  02 14 26.8    22.3N 121.4E   33KM  5.4  TAIWAN
                          H  M  S  DIR DIS  GAP  AZ TZ  AN TN  AE TE  MAG
        NDF    EP?     Z   02 25 19       68
               E       Z         26.5
               E       Z         48.0
        AFI    P       Z   02 26 25       75
               S       ZNE    35 48
               SS      NE     40 20
               LQ      NE     45
               LR      Z      48
        KRP    P       Z   02 26 29       79
        MSZ    EP      Z   02 26 33       79
        MJZ    P       ZNE 02 26 34.6     80
        MNG    P       Z   02 26 34.5     80
        SBA    EPP     ZNE 02 32 38      103
               ESKS    ZNE    39 03
               EPS     ZNE    41 46

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 23  02 59 33.0    20.9S 168.9E   33KM  4.7  LOYALTY IS
                          H  M  S  DIR DIS  GAP  AZ TZ  AN TN  AE TE  MAG
        MNG    P       Z   03 04 10.0       21
        SBA    EP      ZNE 03 09 17        57

SEP 23  NDF    P       Z   06 42 54.7
               E       Z      43 10.5
               S       Z      42.0
        KRP    P       Z   06 47 09.0

SEP 23  RAO    P       Z   10 47 09.9
               S       Z         20.5

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 23  11 20 19.6    22.1S 179.7W  640KM  4.6  S. OF FIJI
                          H  M  S  DIR DIS  GAP  AZ TZ  AN TN  AE TE  MAG
        NDF    IP      Z   11 21 52.8D       5
               S       Z      23 10.1
        RAO    ES      Z   11 23 28          7
        AFI    P       Z   11 22 42         11
               S       ZNE    24 39
        ORZ    P       ZN  11 23 18.0      14
        GBZ    P       Z   11 23 23.0      15
        WTZ    P       Z   11 23 34.0      16
        KRP    P       Z   11 23 38.7      16
        MNG    EP      Z   11 23 59         19
               ES      Z      27 07
        COB    EP      Z   11 24 11         20
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        SBA    P       ZNE 11 29 03.2      56

SEP 23  RAO    P       Z   20 34 56
               S       Z       35 07

SEP 24  WTZ    P       Z   00 53 42.5
        GNZ    P       Z   00 53 49
               S       ZNE     55 07
        KRP    P       Z   00 53 49.8
        TRZ    S       Z   00 55 31
        MNG    P       Z   00 54 12.3
               S       Z       55 51

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 24  01 15 10.6     4.2S 153.3E  33KM        NEW IRELAND
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB    P       Z   01 22 52.3      41
        MNG    P       Z   01 22 56.5      41
        MSZ    P       Z   01 23 05       42 -1.12                        5.6

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 24  02 12 53.8     11.8S 166.2E  94KM        SANTA CRUZ IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    EP      Z   02 16 03       12

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 24  14 23 21.2     20.7S 168.4E  11KM        LOYALTY IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P       Z   14 28 05.7      21

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 24  14 59 58.4     21.7S 167.9E  85KM        LOYALTY IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P       Z   15 04 26.0      20

SEP 24  AFI    P       Z   16 11 10
               S       ZNE     12 02
        MNG    (P)     Z   16 14 37

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 24  20 09 35.6     6.3S 131.2E  33KM  5.1  BANDA SEA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P       Z   20 18 04.6      47
        CRZ    P       ZNE 20 18 13.0      47 -0.20                        6.7
               I       ZNE     29.3
        MSZ    EP      Z   20 18 29.8      50 -0.61                        6.4
        MNW    P       Z   20 18 34.3      50
        MJZ    P       ZNE 20 18 36        51
               SCP     ZNE     23 51.7
        KRP    P       ZNE 20 18 39.0      51
               I       ZNE     56.9
        ROX    P       Z   20 18 40        51
               S       NE      26 00
               LQ      NE      32
               LR      ZNE     36
        WEL    P       ZNE 20 18 45.0      52 -0.32                        6.7
        MNG    EP      Z   20 18 44.0      52
               PP      Z       20 59
        GPZ    P       N   20 18 47.0      52
               PCP     N       19 50
        RAO    EP      Z   20 18 53        53
        AFI    P       Z   20 19 21        57
               PP      E       22 44
               S       ZNE     27 32
               SS      Z       31 44
               LQ      N       33
               LR      ZE      37
        CTZ    EP      ZNE 20 19 37        59
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        RAR  EP      ZNE 20 20 39        68
             ES      ZNE    29 46
              SS     ZNE    33 58
              LQ     ZNE    38 20
              LR     ZNE    41
        SBA  P       ZNE 20 21 11        74
             PCP     ZNE    50
             PP      ZNE    24 00
             S       ZNE    30 43
             SS      ZNE    35 18
             LR      ZNE    44 20

SEP 24  SBA  P       ZNE 22 06 19.5

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 24  22 39 15,1    6.2S 131.2E   33KM  5.5  BANDA SEA
                        H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        NDF  EP      Z   22 47 42.5       47
        MJZ  P       ZNE 22 48 16,0       51
             *PP     ZN          28.0
        KRP  P       ZE  22 48 19.0       51
        MNG  P       Z   22 48 26         52
             *PP     Z           36
        SBA  EP      ZNE 22 50 50         74

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 24  23 20 14,6    6.4S 131.2E   33KM  5.5  BANDA SEA
                        H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        NDF  E       Z   23 28 51         46
        MJZ  EP      ZN  23 29 15.0       51
        KRP  EP      Z   23 29 18          51
        MNG  P       Z   23 29 24.0       52
        SBA  EP      ZNE 23 31 49         74

SEP 24  NDF  IP      Z   23 45 44,30
        KRP  EP      Z   23 47 01.8

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 24  23 59 04,8    6.3S 131.1E   33KM  5.8  BANDA SEA
                        H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        NDF  EP      Z   24 07 33         47
             E       Z           38
        MSZ  EP      Z   24 07 55         50
        MJZ  P       ZNE 24 08 04         51
        KRP  EP      ZNE 24 08 05         51
        MNG  P       Z   24 08 12.6       52
        GNZ  EP      ZNE 24 08 19         53
        SBA  EP      ZNE 24 10 38.5       74

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 25  01 10 48,1    6.4S 131.2E   33KM  5.3  BANDA SEA
                        H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        MNG  EP      Z   01 20 05         52

SEP 25  RAO  IP      Z   03 15 26,0
             IS      Z           42.0

         H  M  S      EPICENTRE    DEPTH  MAG
SEP 25  06 29 06,3    6.4S 131.1E   33KM  5.6  BANDA SEA
                        H  M  S  DIR DIS LG.AZT  AZ TZ  AN TN  AE TE  MAG
        COB  EP      Z   06 38 08         51
        MJZ  P       ZNE 06 38 08.0       51
        MNG  EP      Z   06 38 16         52
        SBA  EP      ZNE 06 40 40         74
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          H  M  S       EPICENTRE    DEPTH  MAG
SEP 25  06 38 55,9    39,1S  73,9W   42KM  4,8  CHILE
                          H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP      ZNE 06 48 42        58
        MNG   P       Z   06 50 52,0       79
        KRP   P       Z   06 51 01,0       80

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 25  09 27 33,5    38,5N 141,8E  58KM  5,2  HONSHU
                          H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP      Z   09 40 07        82
        MNG   EP      Z   09 40 18        85
        MJZ   P       ZNE 09 40 25,4      86

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 25  11 30 17,8     9,8N  93,9E  33KM  5,3  NICOBAR IS
                          H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        COB   P       Z   11 43 07,0       88
        KRP   EP      Z   11 43 16        89
        MNG   P       Z   11 43 15,3      90

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 25  18 53 21,8    22,0S 170,2E  33KM       LOYALTY IS
                          H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP      Z   18 57 15        17
        MNG   P       Z   18 57 43,7      19
        MJZ   EP      Z   18 58 14        22

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 25  21 06 30,0     5,9S 153,6E  33KM       NEW IRELAND
                          H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   21 13 57,0       38
              *PP     Z      14 06,7
        MNG   EP      Z   21 14 03        40
              *PP     Z      13
        COB   P       Z   21 14 08        39

SEP 25  KRP   P       Z   21 45 39
        GNZ   P       Z   21 45 42,0          =0,83
        CRZ   P       ZN  21 45 49
        MNG   P       Z   21 46 02
            E(S)      Z      48 51
        COB   P       Z   21 46 15

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 25  21 48 09,1     10,8S 165,9E  33KM  4,1  SANTA CRUZ IS
                          H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   P       Z   21 54 23,0       31

SEP 25  RAO   EP      Z   23 37 48
              ES      Z      38 07

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 26  00 00 07,4     4,6S 152,2E  120KM  5,0  NEW BRITAIN
                          H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   00 07 29,0       39 =1,05                        5,7
        COB   P       Z   00 07 39,3J      41 =0,79                        6,0
        MNG EIP       Z   00 07 44,3J      42 =0,96                        5,8
        MSZ   P       Z   00 07 52         42 =1,16                        5,6

SEP 26  RAO   P       Z   02 23 29
              S       Z      43

          H  M  S       EPICENTRE    DEPTH  MAG
SEP 26  02 20 17,3     7,3S 130,4E  33KM  4,9  BANDA SEA
                          H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   02 29 05        49
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        COB    P        Z   02 29 13.0       50
        KRP    EP       Z   02 29 16         51
        MNG    P        Z   02 29 23.8       52 -1.38                          5.7

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 26  08 19 40.6     16.3S 172.3W   33KM   4.5  SAMOA REGION
                            H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P        Z   08 20 15         2
               S        ZNE       40
               T        ZNE    22 50
        WTZ    P        Z   08 24 53.0       24
        GNZ    P        ZNE 08 24 53         24
               ES       ZNE    29 10
        KRP    P        ZNE 08 24 58.0       24
        MNG    P        Z   08 25 21.0       26
        COB    P        Z   08 25 37         28
        SBA    EP       ZNE 08 30 03         62

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 26  21 05 44.0     30.9S  68.1W   16KM   5.9  ANDES
                            H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    IP       ZNE 21 16 36  U    67 -0.50                          6.7
               EPP      ZNE    18 58
               ES       ZNE    25 30
               EPS      ZNE    26 00
               ELQ      ZNE    33 30
               ELR      ZNE    37 00
        RAR    BL       ZNE 21 43 30         81
        GNZ    P        ZE  21 18 33         87
               (*SP)    Z          40
        MNG    P        Z   21 18 33.2       88
               (*SP)    Z          40.2
        MJZ    P        ZNE 21 18 35.8       88
               (*SP)    Z          43
        COB    P        Z   21 18 38.7       89
        MSZ    P        Z   21 18 39.8       89
        KRP    P        ZNE 21 18 41.3       89
            I  (*SP)    ZNE        48.0
        AFI    S        ZNE 21 32 08         94
               SS       Z      36 52
               L        ZNE    49

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 27  00 21 02.5     10.6S 161.5E   33KM   4.5  SOLOMON IS
                            H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    EP       Z   00 27 29         32

SEP 27  KRP    P        Z   02 50 42.0
        MNG    P        Z   02 51 03
               S        Z      53 55
        COB    P        Z   02 51 15.0
               ES       Z      54 17

         H  M  S        EPICENTRE    DEPTH  MAG
SEP 27  04 48 21.0     16.5S 172.2W   33KM   4.9  SAMOA REGION
                            H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P        Z   04 48 55         3
               S        ZNE    49 22
        NDF    EP       Z   04 50 53.5       10
        RAR    EP       ZNE 04 51 12.8       13
               ES       ZNE    53 34
        RAO    ES       Z   04 53 52         14
        GNZ    P        ZNE 04 53 32         24
               S        ZNE    57 44
        KRP    P        ZNE 04 53 35.0       24 -0.91                          5.5
        MNG    P        Z   04 53 58.0       26
               I        Z      54 02.2
               ES       Z      58 46
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        COB  EP        Z   04 54 14        28

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 27   09 01 43.8    16.5S 172.2W   33KM  5.9  SAMOA REGION
                                 H  M  S  DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP        Z   09 02 17.50      3
             S         ZNE     03 26
        NDF  P         Z   09 04 09.7       10
        RAR  EP        ZNE 09 04 35         13
             ES        ZNE     06 58
             EL        ZNE     07 25
        RAO  P         Z   09 04 56.0       14
             S         Z       07 20.0
        CRZ  P         ZNE 09 06 42         22
             S         NE      10 54
        ONE  P         E   09 06 45.0       23
             S         E       10 58
        WTZ  P         Z   09 06 51.0       23
             I         Z       56.5
             S         Z       11 10
        GNZ  P         ZNE 09 06 54         24  0.42                        6.8
             I         ZNE     07 02.8
             S         ZNE     11 14
        KRP  P         ZNE 09 06 55         24 -0.24                        6.2
             I         ZNE     07 02.0
             S         ZNE     11 22.0
             E         Z       30 05
        MNG  P         Z   09 07 17.5       26
             I         Z       24.8
             S         Z       12 05.0
             E         Z       30 56.7
        WEL  P         ZNE 09 07 24         27
             S         ZNE     12 17
        COB  EP        Z   09 07 29         28
             I         Z       38
             S         Z       12 31
        CIZ  P         ZNE 09 07 33         28
        MJZ  P         ZN  09 08 06.0       31
             PCP       ZN      10 57.0
        MSZ  P         Z   09 08 20.7       33
        MNW  P         Z   09 08 23         34
        SBA  IP        ZNE 09 12 04         62
             EPCP      ZNE     43
             ELR       ZNE     30 00

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 27   09 30 11.9    16.3S 172.3W   33KM  5.2  SAMOA REGION
                                 H  M  S  DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  P         Z   09 30 45          2
             S         ZNE     31 14
        NDF  EP        Z   09 32 43         10
        RAO  S         Z   09 35 51         14
        GNZ  P         ZNE 09 35 24         24
             S         ZNE     39 46
        KRP  P         ZNE 09 35 26.0       24
        MNG  EP        Z   09 35 46         26
             E         Z       53
        COB  P         Z   09 36 06.8       28
        MJZ  EP        ZNE 09 36 39         31

SEP 27  RAO  P         Z   10 13 06.3
             ES        Z       34
        MNG  E(S)      Z   10 17 48

SEP 27  AFI  P         Z   10 20 02
             S         ZNE     53
             I         ZNE     24 50
        WTZ  P         Z   10 23 34
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        KRP   EP        Z   10 23 40
        MNQ   EP        Z   10 24 03
        COB    P        Z   10 24 21.7

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 27  10 50 24.6     6.1S 131.1E   33KM   5.4  BANDA SEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB    P        Z   10 59 26          51
        MJZ    P        Z   10 59 28.0        51
        MNG   EP        Z   10 59 35          52

SEP 27  AFI    P        Z   10 58 33
               S        ZNE    59 01
               T        ZNE 11 01 05
        WTZ    P        Z   11 03 10
        KRP    P        Z   11 03 14
        MNG    P        Z   11 03 37.8

SEP 27  AFI    P        Z   12 12 39
               S        ZNE    13 00
               T        ZNE    14 32

SEP 27  AFI    P        Z   15 44 57
               S        ZNE    45 44
        KRP    P        Z   15 48 37.3
        MNG   EP        Z   15 48 52

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 27  21 34 03.2     23.0S 175.9W  33KM   5.0  TONGA REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    P        Z   21 35 37.0          6
               S        Z      36 47
        NDF    P        Z   21 36 10           8
        AFI    P        Z   21 36 22          10
               S        ZNE    38 02
               T        ZNE    46 10
        RAR   EP        ZNE 21 37 28          15
              ES        ZNE    39 56.5
              ET        ZNE    52 40
        GNZ   EP        ZNE 21 38 02          16
              ES        ZNE    40 38
        KRP    P        Z   21 37 56          17
        MNQ   EP        Z   21 38 16          19
              ES        Z      41 32
        MNW    P        Z   21 39 36          26

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 28  06 57 35.2     47.8S 119.7W  33KM   5.1  S. PACIFIC OCEAN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP        ZNE 07 05 13          40

SEP 28  AFI    P        Z   07 52 06
               S        ZNE        25

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 28  09 00 38.0     5.7S 105.5E   33KM   5.4  W. JAVA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP        ZNE 09 12 37          79

SEP 28  AFI    P        Z   13 27 00
               S        ZNE        23

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 28  16 40 21.7     15.1S 179.1W 434KM   4.5  FIJI REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P        Z   16 41 15.1           4
        AFI   IP        Z   16 42 03.5D         7 -0.3I
              (S)       ZNE    43 24
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	CRZ	P	ZNE	16	44	32.0		21											
	WTZ	P	Z	16	44	50		23											
	KRP	P	Z	16	44	55.0		23											
	MJZ	P	Z	16	45	54.0		30											
	MSZ	P	Z	16	46	05		31											
	SBA	IP	ZNE	16	50	07		63											
	H	M	S	EPICENTRE			DEPTH	MAG											
SEP 28	17	00	31.4	4.1N		125.7E	161KM	5.4	S. OF MINDANAO										
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SBA	EP	ZNE	17	12	49.5		85											
	H	M	S	EPICENTRE			DEPTH	MAG											
SEP 29	03	30	57.7	11.4S		166.9E	104KM		SANTA CRUZ										
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	COB	P	Z	03	37	00		30											
	MNG	P	Z	03	36	58.0		30											
SEP 29	AFI	P	Z	03	59	52													
		S	ZNE	04	00	40													
	H	M	S	EPICENTRE			DEPTH	MAG											
SEP 29	06	37	35.3	21.1S		174.6W	33KM	5.8	TONGA										
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI	P	Z	06	39	20		8											
		S	ZNE		40	42													
		T	ZNE		47	00													
	NDF	EP	Z	06	39	42	D	8											
	RAO	P	Z	06	39	37		9											
		S	Z		41	12													
	RAR	EP	ZNE	06	40	38		14											
		ES	ZNE		43	30													
	WTZ	P	Z	06	41	47.8		18											
	GNZ	P	ZNE	06	41	51		19											
		S	ZNE		45	06													
		I*SS	N			23.0													
	KRP	P	ZNE	06	41	54.5		19											
	MNG	P	Z	06	42	17.0		21											
		*PP	Z			27.0													
	WEL	P	Z	06	42	28		22											
		S	NE		46	28													
		LQ	NE		48	20													
	COB	E	Z	06	42	32		23											
		P	Z			37.0													
		ES	Z		46	33													
	MJZ	EP	ZNE	06	43	09		26	-0.90									5.6	
	MSZ	EP	Z	06	43	22		28											
	SBA	EP	ZNE	06	47	24		58											
		ES	ZNE		55	24													
		ESCS	ZNE		57	17													
		ELQ	ZNE	07	02	20													
		ELR	ZNE		04	30													
	H	M	S	EPICENTRE			DEPTH	MAG											
SEP 29	10	33	07.2	25.2S		177.3W	136KM	5.1	S. OF FIJI										
				H	M	S	DIR	DIS	LG-A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	RAO	P	Z	10	34	07.9J		4											
		S	Z		35	00													
	NDF	P	Z	10	35	13.7J		9											
	AFI	P	Z	10	35	50		12											
		S	ZNE		37	55													
		T	ZNE		46	10													
	GNZ	S	NE	10	38	42		14											
	MNG	EP	Z	10	36	47		17											
		ES	Z		39	36													
	WEL	S	ZNE	10	40	03		17											
	COB	ES	Z	10	40	10		18											
	MSZ	P	Z	10	38	30.7		23											

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       SBA  EP      ZNE 10 42 15        53

        H  M  S      EPICENTRE    DEPTH  MAG
SEP 29 17 02 47.8    3.3S 127.2E   31KM  5.1  S. OF MINDANAO
                          H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       KRP   P       Z   17 13 03.5      61
       MJZ   P       Z   17 13 14.8      61

SEP 29 RAO  EP       Z   17 06 21
       ES            Z         57

SEP 29 AFI   P       Z   17 10 02
       S             ZNE       25
       T             ZNE   12 15

SEP 29 AFI   P       Z   18 28 57
       S             Z         29 51
       WTZ   P       Z   18 32 10
       KRP   EP      Z   18 32 15

        H  M  S      EPICENTRE    DEPTH  MAG
SEP 30 01 21 07.4    56.1S  27.4W 134KM  5.0  SOUTH SANDWICH IS
                          H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       SBA  EP       ZNE 01 29 18.8      46
       MSZ   P       Z   01 32 56.6      79 -0.9I                  5.9
       MNG  EP       Z   01 33 10        82
       KRP   P       Z   01 33 24.2      84

SEP 30 MSZ   P       Z   02 14 52
       KRP   P       Z   02 14 58

        H  M  S      EPICENTRE    DEPTH  MAG
SEP 30 03 09 32.5    21.1S 174.4W  33KM  5.3  TONGA
                          H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       AFI   P       Z   03 11 17        8
             S       ZNE       12 36
             T       ZNE       18 36
       NDF   P       Z   03 11 40.5      8
       RAO  EP       Z   03 11 34        9
             S       Z         13 11
       RAR   S       ZNE 03 15 08        14
             L       ZNE       35
       KRP  EP       Z   03 13 52.0      19
       MNG  EP       Z   03 14 15        21
            ES       Z         17 58
       COB   P       Z   03 14 37        23
       MJZ  EP       ZNE 03 15 07        26
       MNW   P       Z   03 15 30.0      29
       SBA   P       ZNE 03 19 20.5      58

SEP 30 KRP   P       Z   08 01 51
       MNG   P       Z   08 02 13
             S       Z         05 16

SEP 30 RAO   P       Z   08 30 59.8
             S       Z         31 38
       MNG E(P)      Z   08 34 50

        H  M  S      EPICENTRE    DEPTH  MAG
SEP 30 08 45 52.0    26.2S  70.8E  33KM  5.0  S. INDIAN OCEAN
                          H  M  S  DIR DIS LG AZ TZ  AN TN  AE TE  MAG
       SBA  EP       ZNE 08 56 36.8      66

SEP 30 AFI   P       Z   09 46 24
             S       ZNE       47 05
             T       ZNE       49 11

SEP 30 KRP   P       Z   11 18 11.8
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        MNG   P       Z   11 18 34
        COB   P       Z   11 18 48

SEP 30  AFI   P       Z   11 23 22
              S       ZNE     53

SEP 30  MNG   P       Z   15 35 11,5

         H  M  S       EPICENTRE    DEPTH  MAG
SEP 30  16 46 50,8     9,4S 120,1E  33KM  5,5  S. OF FLORES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        COB   P       Z   16 56 29       56
        MNG   P       Z   16 56 41,0     58

SEP 30  WTZ   P       Z   19 10 39
        KRP   P       Z   19 10 40,0
        MNG   P       Z   19 11 02

SEP 30  MNG   P       Z   19 13 53,0
        WTZ   P       Z   19 13 55,0
        KRP   EP      Z   19 13 55

SEP 30  WTZ   P       Z   20 09 33,8
        KRP   EP      ZNE 20 09 34,5
        MNG   EP      Z   20 09 54

SEP 30  KRP   EP      Z   20 23 33,0
        WTZ   EP      Z   20 23 33
        MNG   EP?     Z   20 23 41

OCT 01  RAO   P       Z   06 13 40,6
              S       Z      14 30
        WTZ   P       Z   06 14 32,8
              S       Z      16 10
        GNZ   P       ZNE 06 14 36,5
              S       ZNE    16 06,5
        KRP   P       ZE  06 14 39,6
        TRZ   S       Z   06 16 29
        MNG   P       Z   06 15 02,0D
              S       Z      16 57
        WEL   S       ZNE 06 17 12
        COB   S       Z   06 17 23

OCT 01  RAO   P       Z   12 08 58,9        =0,91
              S       Z      09 12
        CRZ   P       ZNE 12 11 12
        GNZ   S       ZNE 12 12 51
        MNG   EP      Z   12 11 36
              S       Z      13 49
        WEL   P       Z   12 12 02
              S       ZNE    14 09

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 01  21 43 44,7     51,7N 177,1W  58KM  5,2  ALEUTIAN IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   21 56 35,8     89
              *PP     Z      45

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 01  23 49 36,2     7,5N 123,7E 613KM  6,0  MINDANAO
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   23 58 38,6J     59
        CRZ   P       ZNE 23 59 03,0J     62 =0,36                       6,1
        MSZ EIP       Z   23 59 22,0D     65 =0,23                       6,3
              *PP     Z   24 01 24,5
              PP      Z      55
              PKPPKP  Z      27 56
        COB   P       Z   23 59 24,8      66
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                PP        Z   24 01 56
              ES          Z      07 28
               PKPPKP     Z      27 37
        KRP    P          ZNE 23 59 26,7U     66
               I          ZN        30,3D
               E          Z         41,7
                PCP       Z         51
                *PP       Z   24 01 32
                S         ZNE    07 38
                PKPPKP    Z      27 53
        MJZ    IP         ZNE 23 59 27,3US    66
                PCP       Z         51,8
               E          ZNE 24 01 07,7
                *PP       ZNE       32,0
                PKPPKP    Z      27 44
        MNG    IP         Z   23 59 33,4U     67 -0,88                        5,7
                PCP       Z         54
                S         Z   24 07 37
               I          Z         43,1
               (SP)       Z         51
                PKPPKP    Z      27 47
        AFI    IP         Z   23 59 35  U     67 -0,90                        5,7
               ES         Z   24 08 12
        GNZ    P          ZNE 23 59 38        68
                PP        ZNE 24 02 09
                S         ZNE    07 52
                SP        Z      08 05,7
                PKPPKP    Z      27 50
        SBA    IP         ZNE 24 01 26        88 -0,11                        6,8

OCT 02  AFI    (P)        ZNE 05 06 33
                S         ZNE    07 55
        KRP    P          Z   05 08 52
        GNZ    P          Z   05 08 57
               S?         ZNE    12 16
        MNG    P          Z   05 09 09
                S         Z      13 15
               SCP        Z      15 52
        COB    P          Z   05 09 27

OCT 02  AFI     P         ZNE 08 27 13
                S         ZNE    37

          H  M  S        EPICENTRE     DEPTH  MAG
OCT 02    09 53 10,7     55,4S  28,1W   33KM   4,8  SOUTH SANDWICH IS
                                H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP          ZNE 10 01 38        47
        MSZ    P          Z   10 05 19        79

          H  M  S        EPICENTRE     DEPTH  MAG
OCT 02    15 30 43,6     18,0S 178,4W  609KM  4,8  FIJI REGION
                                H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P          Z   15 32 10,5       4
        AFI    P          ZNE 15 32 39         8
                S         ZNE    34 08
        CRZ    P          ZNE 15 34 24,2      18 -0,39                        6,0
        ONE    P          E   15 34 32        19
        WTZ    P          Z   15 34 38,3      20
        KRP    P          Z   15 34 43        21 -1,10                        5,4
        GNZ    P          ZNE 15 34 45,0U     21 -0,57                        5,9
        TRZ    P          Z   15 34 52        22
        MNG    P          Z   15 35 02,4      23
               SCP        Z      40 49
        WEL    P          ZNE 15 35 11        24
        COB    P          Z   15 35 14        24
        MSZ    P          Z   15 35 57        29
        MNW    P          Z   15 36 06,0      30 -0,91                        5,7
        SBA    EP         ZNE 15 39 57        60
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OCT 02  AFI   P       Z   17 20 33
              S       ZNE     21 22

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 02  18 23 06,3    18,1S 178,4W  611KM  4,6  FIJI REGION
                            H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   18 24 31,0       4
        AFI   P       Z   18 24 38        9
              (S)     NE      26 32

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 02  19 30 02,4    17,3S 177,3W  437KM  4,6  FIJI REGION
                            H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP      Z   19 31 24,5       5
        AFI   P       ZNE 19 31 32        6
              S       ZNE     32 44
        WTZ   P       Z   19 34 16       21
        KRP   P       Z   19 34 20       21
        MNG   P       Z   19 34 41       24

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 02  20 35 45,9    33,9S  70,8W   81KM  5,5  ANDES
                            H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   IP      ZNE 20 46 09  D    63 =0,96                        6,5
        GNZ   P       Z   20 48 09,7      84
              *PP     Z       30
        MNQ   P       Z   20 48 09,7      84
              *PP     Z       30
              *SP     Z       40
        MJZ   P       ZNE 20 48 11        85
              *PP     ZNE     34
        MSZ   P       Z   20 48 09        85
        COB   P       Z   20 48 15        85
              *PP     Z       38

OCT 02  GNZ   P       ZNE 21 05 07,6
              I       ZNE       10,2
              S       ZNE     06 22
        KRP   P       ZNE 21 05 11,2
        MNG   EP      Z   21 05 32
              I       Z         34,3
              S       Z       07 21

OCT 02  SBA   EP      ZNE 21 48 36

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 02  23 17 56,8    32,1N 141,7E   34KM  4,6  S. OF HONSHU
                            H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        GNZ   P?      Z   23 29 58        78
        MNG   P       Z   23 29 58        79

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 02  23 54 59,4    24,0S  67,1W  176KM  4,8  ANDES
                            H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP      ZNE 24 06 15        74

OCT 03  AFI   P       ZNE 00 06 08
              S       ZNE     31
        GNZ   EP      Z   00 10 47
        KRP   P       ZNE 00 10 52
              E       Z       11 13
        MNG   EP      Z   00 11 15
              ES      Z       15 58
        COB   EP      Z   00 11 31
        SBA   EP      ZNE 00 15 56
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	H	M	S	EPICENTRE	DEPTH	MAG	
OCT 03	06	00	49,6	7,2S 129,0E	126KM	5,2	BANDA SEA

			H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z	06	09	32				50					
	MJZ	P	Z	06	09	40,4				51					
	KRP	P	Z	06	09	44				52					
	MNG	P	Z	06	09	50,3				53					

	H	M	S	EPICENTRE	DEPTH	MAG	
OCT 03	07	02	51,8	19,0S 169,5E	272KM	4,8	NEW HEBRIDES

			H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z	07	04	41,6				8					
	KRP	P	ZNE	07	07	01,1				20					
	GNZ	P	ZNE	07	07	14,2				21					
		ES	ZNE		10	49									
	MNG	P	Z	07	07	25,8J				22					
	COB	P	Z	07	07	28				22					

	H	M	S	EPICENTRE	DEPTH	MAG	
OCT 03	08	39	37,8	46,8N 45,0E	0KM	5,8	S.W. RUSSIA

			H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	PKP	Z	09	19	25,6				141					
	SBA	EPKP	ZNE	09	19	27				142					
	COB	EPKP	Z	09	19	24				143					
	KRP	PKP	Z	09	19	30,9				143					
	GNZ	PKP	ZNE	09	19	36,2				145					
	MNG	PKP	Z	09	19	32,7				144					

	H	M	S	EPICENTRE	DEPTH	MAG	
OCT 03	16	16	06,5	10,6S 166,0E	180KM	5,0	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	P	Z	16	19	09,5				13					
	CRZ	P	ZNE	16	21	10				24					
	KRP	P	ZNE	16	21	46,1				29					
	CNZ	P	Z	16	21	50				30					
	GNZ	P	ZNE	16	21	56,8				30					
	TRZ	P	Z	16	22	02,5				30					
	MNG	P	Z	16	22	08,5				31	-0,85				5,8
	WEL	P	Z	16	22	16				32					
	MJZ	P	ZNE	16	22	29				33	-0,85				5,8
	MSZ	P	Z	16	22	33,3				34	-0,98				5,7
	MNW	P	Z	16	22	42				35					
	SBA	EP	ZNE	16	26	42				67					

	H	M	S	EPICENTRE	DEPTH	MAG	
OCT 03	18	04	41,9	21,5S 174,4W	61KM	5,1	TONGA IS

			H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	18	06	26				8					
		S	ZNE		07	43									
		T	ZNE		14	12									
	RAO	P	Z	18	06	41				8					
		S	Z		08	14									
	NDF	P	Z	18	06	48,0				9					
	RAR	EP	ZNE	18	07	39,5				14					
		S	ZNE		10	18									
	GNZ	EP	Z	18	08	57				18					
	KRP	P	ZE	18	08	59				19					
	MNG	P	Z	18	09	21,0				21					
		S	Z		12	57									
	COB	E	Z	18	09	43				22					
	MJZ	P	ZNE	18	10	13				26					
	MSZ	P	Z	18	10	27				27					
	SBA	EP	ZNE	18	14	27				57					
OCT 04	NDF	IP	Z	03	10	35,0J									
		S	Z			53,5									

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          H  M  S        EPICENTRE    DEPTH  MAG
OCT 04  13 07 43,7    11,5S 166,7E  161KM  4,6  SANTA CRUZ
                            H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MNG    P       Z   13 13 43        30
          MSZ    P       Z   13 14 10,3      33

          H  M  S        EPICENTRE    DEPTH  MAG
OCT 04  19 14 58,2    10,6S 124,2E   33KM  5,0  TIMOR
                            H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    P       Z   19 23 56,2      51
          MJZ    P       ZN  19 24 05        52
          COB    PCP     Z   19 25 19        52
          KRP    P       ZE  19 24 17,0      53
          MNG    P       Z   19 24 21,0      54
                 PCP     Z       25 26

OCT 05    MNG    P       Z   01 17 35,7

OCT 05    AFI    IP      ZNE 09 37 13  D
                 S       ZNE     38

          H  M  S        EPICENTRE    DEPTH  MAG
OCT 05  10 48 19,1    13,8N  91,1W   89KM  5,4  GUATEMALA
                            H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          AFI    EP      Z   11 00 56        84
                 ES      ZN      11 28
                 ESS     Z       16 48
                 LR      ZNE     27
          SBA    EPS     ZNE 11 16 00       104
                 ESS     ZNE     22 05
                 ELR     ZNE     38 14

          H  M  S        EPICENTRE    DEPTH  MAG
OCT 05  20 02 54,9     3,5S 127,8E   33KM        CERAM
                            H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MJZ    P       ZNE 20 12 24,6J      55
          KRP    P       Z   20 12 27        55
          MNG    P?      Z   20 12 35,5      57

OCT 06    AFI    P       ZNE 05 13 46
                 S       ZNE     15 00
          KRP    P       Z   05 17 07,9
          MNG    P?      Z   05 17 33

          H  M  S        EPICENTRE    DEPTH  MAG
OCT 06  11 31 04,3    34,3N 138,4E   51KM  5,2  S. HONSHU
                            H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P       ZE  11 43 10,3D     80
                 PCP     Z       21
          COB    EP      Z   11 43 18        81
          MNG    EP      Z   11 43 22        82
          MSZ    P       Z   11 43 26        83
          MJZ    P       ZNE 11 43 27,0      83

OCT 06    KRP    P       Z   12 35 58
          MNG  E(P)      Z   12 36 25
             E(*PP)      Z       42
          MJZ    P?      Z   12 36 51

OCT 06    MJZ    P       ZNE 16 04 23
          MSZ    P       Z   16 04 24,8

          H  M  S        EPICENTRE    DEPTH  MAG
OCT 06  16 35 10,9     6,1S 149,9E   61KM  5,4  NEW BRITAIN
                            H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          NDF    EP      Z   16 41 10        29
                 E       Z       14
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                E          Z              22
        AFI     P          ZNE 16 42 29        38 -1,11                    5,7
        KRP     P          Z   16 42 37,0      39
                PCP        Z       44 44
                (SCP)      Z       48 53
        MNG     P          Z   16 42 51        41
                PCP        Z       44 54,2
        GNZ     P          ZNE 16 42 52        41 -0,62                    6,1
                I          ZE      43 01
                *PP        Z       09
        MSZ     P          Z   16 42 57        42
                PCP        Z       44 47
        MJZ     P          ZNE 16 42 58        42
                PCP        Z       44 52
                *PPCP      Z       45 02
                SCP        Z       48 46
        SBA     EP         ZNE 16 46 32,5      72

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 06  16 42 54,3      6,1S 149,8E  99KM   5,5  NEW BRITAIN
                              H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        NDF     EP         Z   16 48 53        29
                E          Z       59
                ESCP       Z       55 50
        AFI     P          ZNE 16 50 14        39 -0,93                    5,9
                PPP        ZE      52 00
                S          ZNE     56 08
                SSS        NE      59 08
                LR         ZE  17  01
        KRP     P          ZNE 16 50 22        39
                *PP        ZNE     38,2
                PCP        Z       52 28
                *PPCP      Z       39
                *SPCP      Z       45
                SCP        Z       56 22
        GNZ     P          ZNE 16 50 36,5      41
                I          Z       48,9
                (*PP)      Z       53
                SCP        Z       56 28
                S          NE      46
        MNG     P          Z   16 50 36,7      41
                E          Z       45
                (*PP)      Z       49
                PCP        Z       52 38,6
                *PPCP      Z       49,7
                ESCP       Z       56 36
        WEL     P          Z   16 50 42        42
                PP         Z       52 31
                PCP        Z       46
        MSZ     P          Z   16 50 41        42
                E          Z       50
                *SP        Z       51 02,8
                EPCP       Z       52 26
                *PPCP      Z       39,8
        MJZ     P          ZNE 16 50 41        42
                E          ZNE     51
                I*SP       ZNE     51 03
                PCP        ZNE     52 40
                I          ZNE     46,8
                I          ZNE     55,0
                SCP        ZNE     56 28,6
                S          NE      46
        RAR     ES         ZNE 16 59 04        51
                ESS        ZNE 17 03 03
                ELQ        ZNE     04 20
                ELR        ZNE     07 14
        SBA     EP         ZNE 16 54 15,3      72
                ES         ZNE 17 03 42
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              EPS      ZNE     04 08
              ESS      ZNE     08 01
              ELQ      ZNE     12 26
              ELR      ZNE     16 50

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 06   20 00 47,6    6.0N 124.0E 540KM  5.2  MINDANAO
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
         NDF   P        Z   20 09 49,60    58
         MSZ   P        Z   20 10 30        64 -1.21                    5.4
         KRP   P        Z   20 10 36.0      65
         MJZ   P        ZNE 20 10 37        65 -1.26                    5.4
         MNG   P        Z   20 10 42.3      66
         GNZ   P        ZNE 20 10 48        67
         SBA   EP       ZNE 20 12 36.5      87

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 06   20 22 03.2    3.3N  98.5E 124KM  5.3  N. SUMATRA
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
         MSZ   P        Z   20 33 49.1      78
         MJZ   P        ZNE 20 33 56.4      79
         KRP   P        Z   20 34 12.5      82
               *PP      Z      49
         MNG   P        Z   20 34 11.5      82 -1.19                    5.7
               (*PP)    Z      51
         GNZ   P        Z   20 34 22        84
         SBA   EP       ZNE 20 34 44        89
               I*PP     ZNE    35 20.2

OCT 06   NDF   EP       Z   23 16 09.6
               E        Z      17 01
               E        Z      25

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 07   05 33 08.2    21.4S 177.8W 365KM  5.0  FIJI REGION
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
         NDF   IP       Z   05 34 38.0U      6
               E        Z      35 20.5
               ES       Z      49.3
         RAO   P        Z   05 34 56.0       8
               S        Z      36 26.5
         AFI   P        ZNE 05 35 12         9
               S        ZNE    36 47
         ORZ   P        ZNE 05 36 29.6      15
               I        ZN     30.8UN
         GBZ   P        Z   05 36 33.9      16
               E        Z      37
         ECZ   P        Z   05 36 41.2      17
               ES       Z      39 33
               I        Z      42
         RAR   EP       ZNE 05 36 40        17
         WTZ   P        Z   05 36 42.9      17
               I        Z      45.2U
               S        Z      39 47
               I        Z      56
         KRP   P        ZNE 05 36 48.2      17
               I        Z      51.3
               E        Z      37 09
               S        ZNE    39 58
               I        NE     40 06
         GNZ   P        ZNE 05 36 48.3      18
               I        Z      50.9
               E        Z      38 53
               S        ZNE    39 54
         TRZ   P        Z   05 37 01        19
               S        Z      40 20
         TNZ   P        Z   05 37 07.8      19
         MNG   P        Z   05 37 12.0      20
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            I       Z          13.7
            (*PP)   Z          53.3
            E       Z       40 29
             S      Z          38.8
            I       Z          47.4
             PCP    Z       41 24
       WEL   P      ZNE 05  37 22          21
            E       ZNE     41 57
             S      ZNE     40 53
       COB   P      Z   05  37 24.7        21
            I       Z          26.0
             S      Z       41 04
       MJZ   P      ZNE 05  37 54          25
            (*SP)   Z       39 31.7
             S      ZNE     41 53.3
            E       N       42 33
       MSZ   P      Z   05  38 10.7        26
             S      Z       42 20
       MNW   P      Z   05  38 18          27
            (*SP)   Z       39 29.8
       SBA   IP     ZNE 05  42 19.2D       57 -0.63                          5.9

        H  M  S       EPICENTRE    DEPTH  MAG
OCT 07  08 14 31.2    3.3S 136.0E   95KM  4.6  WEST IRIAN
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       MNG   P      Z   08 23 33          51

        H  M  S       EPICENTRE    DEPTH  MAG
OCT 07  12 34 56.4    4.5S 153.1E   86KM  5.2  NEW IRELAND
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       NDF   EP     Z   12 40 34          27
            E       Z       41 02
       KRP   P      ZNE 12  42 17         39
            E       Z          25
             PCP    Z       44 29.7
       GNZ   P      ZNE 12  42 31.2U      41 -0.49                          6.3
            E       Z          38
       MNG   P      Z   12  42 33.2        41 -0.98                          5.8
             *PP    Z          58.6
             PCP    Z       44 28
       MSZ   P      Z   12  42 41          42 -0.18                          6.6
            I       Z          42.9
             *PP    Z       43 02
             PCP    Z       44 33
       MJZ   P      ZNE 12  42 42.2UN      42
             PCP    ZNE     44 35.7U
       SBA   IP     ZNE 12  46 22.2D       74 -0.63                          6.3

OCT 07 GNZ   P      ZN  17  24 30.7
            E       ZNE        34
             S      ZNE     26 16
       KRP   EP     Z   17  24 37
       TRZ   P      Z   17  24 45
             S      Z       26 45
       MNG   P      Z   17  24 57
            E       Z       25 00
             S      Z       27 07

        H  M  S       EPICENTRE    DEPTH  MAG
OCT 08  02 45 41.6    38.4S  93.3W  33KM  5.4  W. OF CHILE
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       SBA   EP     ZNE 02  55 10.5        55
       MJZ   P      Z   02  56 43          68
            E       Z       57 35

OCT 08 AFI   P      ZNE 03  47 22
             S      ZNE     48 02
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	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 08	12	53	26,1	0,4N 121,8E		128KM	4,9	SULAWESI								
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ		P	ZNE	13	03 33,7		62								
			*PP	Z		04 09										
	KRP		P	Z	13	03 38		62								
			*PP	Z		04 16,7										
	MNG		P	Z	13	03 43,3		63								
			*PP	Z		04 13,7										
	SBA		EP	ZNE	13	05 33		82								

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 08	18	40	46,8	59,3S	25,0W	33KM	4,9	SOUTH SANDWICH IS								
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA		EP	ZNE	18	48 44		43								
	MNG		E(*PP)	Z	18	53 33,8		79								
	KRP		P	Z	18	53 03,0		82								
			(*PP)	Z		19										

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 08	19	27	36,8	20,1S	178,7W	613KM	4,4	FIJI REGION								
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		P	Z	19	29 06,5U		4								
	AFI		P	ZNE	19	29 42		9								
			S	ZNE		31 23										
	CRZ		P	ZNE	19	30 58,1UN		16	=0,36							5,9
	GBZ		P	Z	19	31 03,2		17								
	KRP		P	ZNE	19	31 17,0		18								
	GNZ		P	ZNE	19	31 19,0		19								
			S	ZNE		34 18										
	TNZ		P	Z	19	31 25,3		20								
		I		Z		26,6										
	MNG		P	Z	19	31 37,2		21								
			S	Z		34 52										
			(PCP)	Z		36 30,8										
			SCP	Z		38 02										
	WEL		P	Z	19	31 45,3		22								
	COB		P	Z	19	31 48		22								
	MJZ		EP	ZNE	19	32 19		25								
			ES	ZNE		36 03										
	MNW		P	Z	19	32 41,2		28								

OCT 08	NDF		EP	Z	20	49 23										
	SBA		EP	ZNE	20	56 32										

OCT 08	NDF		P	Z	23	03 25										
		E		Z		44										
	AFI		P	ZNE	23	03 42										
			S	ZNE		05 43										
			T	ZNE		15										
	MNG		P	Z	23	05 09,6										
	SBA		EP	ZNE	23	10 34,5										

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 09	05	46	01,1	2,0N	126,4E	37KM	4,8	MOLUCCA PASSAGE								
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		P	Z	05	56 02		59								
	COB		EP	Z	05	56 08		60								
	KRP		EP	Z	05	56 08		60								
	MJZ		P	ZNE	05	56 07,8		60								
	MNG		P	Z	05	56 17		62								

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 09	07	18	23,6	28,2N	56,0E	32KM	5,2	S. IRAN								
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG		EPKP	Z	07	37 35		129								

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          H  M  S      EPICENTRE    DEPTH  MAG
OCT 09  09 33 23.3   43.2N 146.3E   58KM   5.3  KURIL IS
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P     Z   09 46 08        87

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 09  16 17 18.1   15.2S  73.1W   98KM   4.9  S. PERU
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP     ZNE 16 29 24        81

OCT 10  SBA   EP     ZNE 00 27 24.5

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 10  04 31 40.1   35.2N  25.4E   33KM   4.8  CRETE
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   PKP    Z   04 51 38       150
        MJZ   PKP    Z   04 51 37.7     152

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 10  07 54 27.1   18.2S 168.4E   51KM         NEW HEBRIDES
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP     Z   07 56 37         9
        KRP   P      Z   07 59 09.6      21
        GNZ   EP     Z   07 59 15        22
        MNG   P      Z   07 59 31        23

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 10  07 58 35.5   10.5S 165.9E  123KM   4.9  SANTA CRUZ IS
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P      Z   08 01 46.0U     13
        AFI   P      Z   08 03 20        22
        CRZ   P      NE  08 03 47        25
        KRP   P      ZNE 08 04 20.5      29
              I      ZNE      27.3
        GNZ   P      ZNE 08 04 31.6      30 -0.26                        6.4
        TRZ   P      Z   08 04 36        31
        MNG   P      Z   08 04 41        31
              SCP    Z       09 49
        COB   P      Z   08 04 43        31
        WEL   EP     Z   08 04 46        32
        MJZ   P      ZNE 08 05 03.9      34 -1.24                        5.5
        MSZ   P      Z   08 05 08        34
        SBA   EP     ZNE 08 09 16.5      67

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 10  19 23 39.1   35.1N  25.8E   41KM   4.8  CRETE
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   PKP    Z   19 43 28       150

OCT 10  KRP   P      Z   21 15 13.6
        MNG   P      Z   21 15 24
        COB   P      Z   21 15 44.4

OCT 10  AFI   P      ZNE 22 40 43
              S      ZNE     41 28

          H  M  S      EPICENTRE    DEPTH  MAG
OCT 10  22 42 18.5   20.1S  68.7W  127KM   5.5  CHILE
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP     ZNE 22 54 01        77
              ES     ZNE 23 03 46
        MNG   EP     Z   22 55 32        95
        KRP   P      Z   22 55 37.6      97
        COB   P      Z   22 55 38        97

OCT 11  MNG   EP     Z   02 52 50
              E(S)   Z       54 32
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OCT 11  MNG   IP        Z    03 10 35
              E         Z       11 50
              (S)       Z       12 11
        NDF   EP        Z    03 14 36.5
              E         Z          45.2
              E         Z       15 12.5

OCT 11  NDF   EP        Z    03 31 11.5
              E         Z          21.5
              E         Z          37.6

OCT 11  GNZ    P        Z    10 28 12.7
               E        NE         29 37.7
               S        ZNE        42
        KRP   EP        Z    10 28 18
        MNG    P        Z    10 28 41
               S        Z          30 32

         H  M  S         EPICENTRE     DEPTH   MAG
OCT 11  10 48 09.2      21.9S 179.7W  623KM   5.1  FIJI REGION
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP        Z    10 49 41.6U      5
              ES        Z       50 57
        RAO    P        0    10 49 59         7  0.17
               S        Z       51 32
        AFI    P        ZNE  10 50 30        11
               S        ZNE     52 25
        CRZ    P        N    10 51 10        14
               I        N          12.4
        ONE    P        E    10 51 16.3      15
        KRP    P        ZNE  10 51 31.0      16
               E        ZNE         36.6
        GNZ    P        ZNE  10 51 32        17
               S        ZNE     54 18
               SCP      ZNE     58 25.5
        CNZ    P        Z    10 51 40        18
               S        Z       54 33
        TRZ    P        Z    10 51 40        18
               ES       Z       54 35
        MNG    P        Z    10 51 51        19
               E        Z          59.5
               S        Z       54 53
               SCP      Z       58 29.0
        COB    P        Z    10 52 02        20
        MJZ    (P)      Z    10 52 44        23
               SCP      Z       58 40.0
        MSZ    P        Z    10 52 47.0      25
        MNW    P        Z    10 52 53.8      26
        SBA    EP       ZNE  10 56 55.5      56

         H  M  S         EPICENTRE     DEPTH   MAG
OCT 11  10 59 46.8      19.2S 177.6W  371KM   4.0  FIJI REGION
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP?       Z    11 01 19         5
              E         Z          29
        AFI    P        ZNE  11 01 39         8
               S        ZNE     03 10
        KRP    P        Z    11 03 39        20
        GNZ    P        ZN   11 03 41        20
        MNG    P        Z    11 03 59.6      22
        COB    P        Z    11 04 10        23
        SBA    P        ZNE  11 08 55.5      59

OCT 11  GNZ    P        Z    17 20 58
        KRP    P        Z    17 21 32
        MNG    P        Z    17 21 58.0
               (*PP)    Z       22 10.1
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OCT 11  GNZ   (P)      Z   17 21 59
        KRP  E(P)      Z   17 22 31
        MNG   (P)      Z   17 23 04
              (*PP)    Z         14.8
              E        Z         29

OCT 11  GNZ    P       ZNE 18 28 42
               ES      ZNE    30 24
        KRP    P       Z   18 28 45.4
        MNG    P       Z   18 29 07.6
               S       Z      31 16

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 11  22 31 00.6     7.5S 155.0E  131KM  4.8  SOLOMON IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P       Z   22 36 07.2      24

OCT 11  NDF   EP       Z   22 46 13.5
              I        Z         15.0U
        AFI    P       ZNE 22 46 38
               S       ZNE    48 11

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 12  00 39 47.3     7.0S 155.3E   98KM  4.8  SOLOMON IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   00 44 54      24

OCT 12  NDF   EP       Z   02 15 56
              I        Z         56.9D
        AFI    P       ZNE 02 16 29
               S       ZNE    18 07

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 12  16 45 09.5     0.6S 121.7E   33KM  5.3  SULAWESI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   16 54 59.5      57
        COB   EP       Z   16 55 25         61
        GNZ    P       ZNE 16 55 40.6      64
        SBA   EP       ZNE 16 57 22        81

OCT 12  AFI   IP       ZNE 17 40 15.9U
               S       ZNE        37

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 12  17 49 51.1     1.8N 127.4E  108KM  5.6  HALMAHERA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   IP       Z   17 59 00.8U      53
        MNW    P       Z   17 59 42.7       59
        COB   EP       Z   17 59 43         59
        GNZ   (P)      ZNE 17 59 59         61
        AFI    P       Z   18 00 05         62 -0.80                      6.3
        SBA   EP       ZNE 18 02 02        82
               PP      ZNE    05 09

OCT 12  AFI    P       ZNE 20 58 17
               S       ZNE        36

OCT 13  MNG    P       Z   03 29 29.2U

         H  M  S       EPICENTRE    DEPTH  MAG
OCT 13  04 46 11.0     52.8N 163.1W  38KM  5.9  S. OF ALASKA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P       ZNE 04 57 01         67
               S       ZNE 05 05 53
               SS      Z      10 16
               LQ      E      13 48
               LR      ZN     17
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        RAR  EP      ZNE 04 57 43        74
             ES      ZNE 05 07 13
        KRP   P      Z   04 59 21.8      92
        SBA  EPKP    ZNE 05 05 19.7     132

OCT 13  MNG  EP?     Z   05 36 27
             ES      Z      38 24

OCT 13  AFI   P      ZNE 13 19 58
              S      ZNE    20 20

OCT 13  GNZ   P      ZNE 17 31 10
              S      ZNE    32 36
        CRZ   P      ZNE 17 31 22
        KRP  E       Z   17 31 31
        MNG   P      Z   17 31 42
             ES      Z      33 34
        WEL   S      ZNE 17 33 53

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 13  20 47 30.6    5.5S 152.6E  32KM  5.0  NEW BRITAIN
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   P      Z   20 55 08        41
        MSZ E(P)     Z   20 55 14        41

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 14  00 00 24.5   48.4N 148.7E 394KM  5.6  KURIL IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P      Z   00 12 39        89
        MNG   P      Z   00 12 50        92

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 14  02 10 55.1    6.4S 131.2E  33KM  5.4  BANDA SEA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P      ZN  02 19 53        51
        MNG  EP      Z   02 20 04        52

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 14  05 56 35.1    0.1N 123.7E 173KM  4.7  SULAWESI
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   P      Z   06 06 37        62

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 14  06 36 45.3    7.4S 156.2E  51KM  4.8  SOLOMON IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG   P      Z   06 43 53.6      37

OCT 14  RAO   P      Z   07 46 59
        GNZ  EP      Z   07 48 32
              S      ZNE    51 04
        TRZ  ES      Z   07 51 24
        MNG   P      Z   07 48 49.0
             (S)     Z      51 37
              S      Z         41
        WEL   S      ZNE 07 51 56
             I       N         59
        COB   S      Z   07 52 02

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 14  12 06 34.6   33.0S 178.5W  33KM  4.4  S. OF KERMADEC IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P      Z   12 07 29         4
              S      Z      08 15
        AFI  EP      Z   12 11 05        20
              S      ZNE    14 52
        SBA  EP      ZNE 12 14 53        45
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          H  M  S       EPICENTRE    DEPTH  MAG
OCT 14   14 51 20,9    14,3S 172,9E   60KM  5,3  NEW HEBRIDES
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
         KRP    P        ZNE 14 56 29        24
         GNZ    P        Z   14 56 37,7      25
         MNG    P        Z   14 56 51,0      26
         COB    P        Z   14 56 59,6      27
         MJZ    P        ZNE 14 57 25,0      30
         SBA    EP       ZNE 15 01 48,2      64

OCT 14   AFI    IP       ZNE 16 09 22  J       =0,81
                (S)      ZNE    10 54

OCT 14   RAO  E(P)       Z   18 17 25
         RAR    EP       ZNE 18 20 42
                ET       ZNE    36
         GNZ    ES?      ZNE 18 23 07
         MNG    P        Z   18 21 06
                S        Z      24 03
         COB    P        Z   18 21 34

OCT 14   AFI    P        ZNE 19 06 06

OCT 14   AFI    IP       ZNE 22 31 55
                S        ZNE    32 13

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 14   23 52 05,7    32,8S 178,6W   33KM  4,8  S. OF KERMADEC IS
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
         RAO    EP       Z   23 52 58        4
                S        Z      53 42
         NDF    EP       Z   23 55 45       15
         AFI    P        ZNE 23 56 34       20
                S        ZNE 24 00 24
         RAR    EP       ZNE 23 56 38,5     20
                ES       ZNE 24 00 24
                EL       ZNE    01 30
         SBA    EP       ZNE 24 00 22,5     46

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 15   01 00 00,0    32,9S 178,4W   33KM  5,2  S. OF KERMADEC IS
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
         RAO    IP       Z   01 00 54,7       4 =0,11
                S        Z      01 38
         NDF    EP       Z   01 03 38       16
         AFI    P        ZNE 01 04 29       20
                S        ZNE    08 16
                T        ZNE    25
         RAR    EP       ZNE 01 04 32,5     20
                ES       ZNE    08 02
                EL       ZNE
         SBA    EP       ZNE 01 08 17,5     46

OCT 15   SBA    EP       ZNE 03 33 55

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 15   05 21 18,7    32,9S 178,3W   33KM  4,5  S. OF KERMADEC IS
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
         RAO    P        Z   05 22 12        4
                S        Z      56
         NDF    I        Z   05 25 30,0D     16
         AFI    P        ZNE 05 25 48       20
                S        ZNE    29 34
         RAR    EP       ZNE 05 25 50       20
                ES       ZNE    29 26
         SBA    EP       ZNE 05 29 37,5     46
                ES       ZNE    36 26
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OCT 15  SBA  EP        ZNE 05 50 22

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 15  10 28 08.3     22.1S 171.3E 101KM  5.6  LOYALTY IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P        Z   10 29 56  D    7
        CRZ    P        ZNE 10 31 03       12
               I        Z           05.0
                S       ZNE    33 17
        ONE    P        E   10 31 27       14
        GBZ    P        Z   10 31 33       15
               I        Z           35.0
        KRP    P        ZNE 10 31 56       16
               I        ZNE         59.0
        WTZ    P        Z   10 31 57       17
               I        Z       32 04
        ECZ    P        Z   10 32 00.8      17
               I        Z           10.2U
        GNZ    P        ZNE 10 32 05.7      17
        AFI    P        ZNE 10 32 11       18
                S       ZNE    35 26
                SS      ZE     37 06
        TRZ    P        Z   10 32 12       18
               I        Z           27.2
        MNG    P        Z   10 32 19       19
              (*PP)     Z           37.2
        COB    P        Z   10 32 23.7     19
               I        Z           37.0
        WEL    P        ZNE 10 32 26       19
              I(*PP)    ZNE         43.2
        MJZ    P        ZNE 10 32 55       22 =0.37                        5.9
              I(*PP)    ZNE    33 15.7
               (S)      ZN     36 52
        MSZ    P        Z   10 33 05       23 =0.94                        5.4
              I(*PP)    Z           27.4
        RAR    EP       ZNE 10 33 45       27
                ES      ZNE    38 06
                EL      ZNE    40 30
        SBA    EP       ZNE 10 37 35.2     56
                ES      ZNE    45 14
                ESCS    ZNE    47 18
                ELR     ZNE    54 20

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 15  12 00 09.1     32.9S 178.4W  33KM  4.6  S. OF KERMADEC IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    P        Z   12 00 58       4
                S       Z       01 43
        NDF    EP?      Z   12 03 49       16
        AFI    EP       Z   12 04 48       20
        RAR    ES       NE  12 08 27       20
        SBA    EP       ZNE 12 08 28       46

OCT 15  WTZ    EP?      Z   12 55 57
               I        Z       56 00.7
        GNZ    P        ZNE 12 56 01
                S       ZNE    57 16
        KRP    P        Z   12 56 07.2
        MNG    P        Z   12 56 29.7
               I        Z           31.2
               I        Z       57 09
                S       Z       58 04

OCT 15  AFI    P        ZNE 19 52 25
                S       ZNE    55
        SBA    EP       ZNE 19 57 04
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	H M S	EPICENTRE	DEPTH	MAG	
OCT 16	04 23 13.7	30.0S 177.7W	54KM	4.4	KERMADEC IS

			H M S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	IP	Z	04 23 28.00										1
CRZ	P	ZNE	04 25 29.0										9
GNZ	S	ZE	04 27 00										9
MNG	EP	Z	04 25 51										12
	S	Z	28 00										
WEL	S	ZNE	04 28 18										13
MSZ	EP	Z	04 27 23										19
OCT 16	MNG P	Z	06 48 41.3										

	H M S	EPICENTRE	DEPTH	MAG	
OCT 16	07 55 23.7	6.9S 129.8E	88KM	5.0	BANDA SEA

			H M S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG
MNG	P	Z	08 04 29										53
SBA	EP	ZNE	08 06 48										73
OCT 16	AFI P	ZNE	08 47 02										
	S	ZNE	48 44										
OCT 16	WTZ P	Z	08 48 27										
	KRP P	Z	08 48 31.8										
	MNG P	Z	08 48 51										

	H M S	EPICENTRE	DEPTH	MAG	
OCT 17	00 47 37.6	6.1S 153.1E	27KM	5.3	NEW BRITAIN

			H M S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	00 54 53.5										38
COB	P	Z	00 55 04.3										39
GNZ	P	Z	00 55 08										39
MNG	P	Z	00 55 09.7										40
MSZ	P	Z	00 55 18										41

	H M S	EPICENTRE	DEPTH	MAG	
OCT 17	06 14 40.4	33.0S 178.4W	33KM	4.3	S. OF KERMADEC IS

			H M S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	EP	Z	06 15 32										4
	S	Z	16 17										
AFI	P	ZNE	06 19 11										20
	S	ZNE	23 00										
RAR	EP	ZNE	06 19 23										20
	ES	ZNE	22 50										
SBA	EP	ZNE	06 23 00										45
OCT 17	AFI P	Z	17 39 01										
	S	NE	53										

	H M S	EPICENTRE	DEPTH	MAG	
OCT 17	21 23 16.2	10.3S 120.9E	33KM	5.7	S. OF FLORES

			H M S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG
MSZ	P	Z	21 32 33.0										53
COB	P	Z	21 32 47										55
NDF	P	Z	21 32 54										56
	E*PP	Z	33 05.5										
KRP	P	ZE	21 32 56.6										56
MNG	P	Z	21 32 59										57
	*SP	Z	33 15										
	I	Z	34 12.2										
GNZ	EP	Z	21 33 11										59
AFI	EP	Z	21 34 08										66
	ES	ZNE	43 10										
	ESS	ZE	47 14										
	ESSS	N	50 28										
	ELR	ZE	56										
SBA	EP	ZNE	21 34 34.5										71

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              EPCP     ZNE        45.5
              ES       ZNE     43 58
              ESS      ZNE     48 21
              ESSS     ZNE     52 12

OCT 18  AFI    P       Z    08 01 41
               S       ZNE     02 41

OCT 18  AFI    IP      Z    09 28 12.1U

         H  M  S       EPICENTRE     DEPTH   MAG
OCT 18  13 10 58.3     30.1S 177.3W   33KM   4.4  KERMADEC IS
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    IP      Z    13 11 17.3D      1
               S       Z       34
        WTZ    EP      Z    13 13 06         9
        GNZ    EP      ZE   13 13 09         9
               S       ZE      14 51
        MNG    EP      Z    13 13 43        12
               S       Z       15 48.7
        MSZ    P       Z    13 15 10        19

OCT 18  NDF    P       Z    14 13 56.4
               E       Z       14 11
        AFI    P       Z    14 14 31
               S       ZNE     16 09
        RAO  E(P)      Z    14 16 11

         H  M  S       EPICENTRE     DEPTH   MAG
OCT 18  18 18 25.1     8.5S 124.9E    33KM   5.7  TIMOR
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P       Z    18 27 32.1U      52 -0.62                       6.4
               I       Z       37.7U
               (PCP)   Z       28 45
        NDF    P       Z    18 27 32.6U      52
        MNW    P       Z    18 27 36         52 -0.49                       6.5
        COB    P       Z    18 27 43         53
               I       Z       50.1
             E(PCP)    Z       28 56
        KRP    P       ZNE  18 27 50.6       54 -0.95                       6.1
               I       Z       56.9
        WEL    P       ZN   18 27 53        55
               I       ZN      59.2
               S       NE      35 31
               SOS     NE      37 42
        GNZ    P       Z    18 28 04.8       56
        AFI    P       Z    18 28 48         62
               ES      ZNE     37 14
               ESS     Z       41 24
               ESSS    ZNE     44 16
               ELQ     N       45
               ELR     ZE      47
        SBA    EP      ZNE  18 29 48.5       73
               ES      ZNE     39 14
               EPS     ZNE     40 00
               ELR     ZNE     53 18

OCT 19  AFI    P       Z    06 26 10
               S       ZNE     31

OCT 19  NDF    EP      Z    15 20 50.6
               I       Z       51.2U

         H  M  S       EPICENTRE     DEPTH   MAG
OCT 19  17 27 19.3     14.4S 167.4E  213KM   4.9  NEW HEBRIDES
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    EP      Z    17 29 48  U      10
               ES      Z       31 04
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        SBA  EP       ZNE 17 37 28.5      63

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 19  18 43 21.8    6.3S 154.4E   51KM  5.0  SOLOMON IS
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MNG   P       Z   18 50 44.6U     39
        MSZ   P       Z   18 50 55.6U     40 -1.51                        5.3

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 19  22 16 38.1    50.7S 139.1E  33KM  5.4  S. OF AUSTRALIA
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P       ZNE 22 21 33.2      22
              E       Z        58
        COB   EP      Z   22 22 07          25
        WEL   S       N   22 27 05          26
              LQ      N      28 04
              LR      N      30
        MNG   P       Z   22 22 17.8        27
        SBA   EP      ZNE 22 22 37          29
              ES      ZNE    27 38
              EL      ZNE    30 20
        NDF   P       Z   22 24 49.5        45
        AFI   ES      ZE  22 33 48          54
              ELQ     N      39
              ELR     ZE     42

OCT 19  AFI   IP      ZNE 22 34 19  U
              S       ZNE    39

OCT 20  GNZ   P       ZNE 00 41 49
              S       ZNE    43 15
        KRP   P       ZE  00 41 52
        MNG   P       Z   00 42 15.1
              I       Z        16.7
              S       Z    44 10
        WEL   P       ZNE 00 42 26
              S       ZNE    44 29
        COB   P       Z   00 42 31.3
              ES      Z      44 40

         H  M  S      EPICENTRE    DEPTH  MAG
OCT 20  04 33 48.9    20.6N  29.7W  33KM  5.7  N. ATLANTIC OCEAN
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EPKP    ZNE 04 52 42        122
              EPP     ZNE    54 30
              EPS     ZNE 05 04 17
              ELQ     ZNE    24 50
        AFI   ESSP    ZE  05 15 40        143
              ESSS    ZE     21 00

OCT 20  AFI   (P)     Z   07 02 33

OCT 20  GNZ    PKP    ZNE 04 53 40
        MNG    PKP    Z   04 53 40.5
               I      Z        45.7
        COB    PKP    Z   04 53 51.9
        MJZ    PKP    ZN  04 53 36
               I      ZNE      41.8
               I      ZNE      50.2
        KRP    PKP    ZNE 04 53 44
               I      ZNE      54.2

OCT 20  AFI    S      ZNE 07 03 35

OCT 20  AFI    P      Z   06 57 21
               S      ZNE      49
        KRP    EP     Z   07 01 08
        MNG    P      Z   07 01 18
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        COB    P        Z   07 01 39

         H  M  S         EPICENTRE    DEPTH  MAG
OCT 20  06 39 17.4      50.3S 139.6E   33KM  5.3  S. OF AUSTRALIA
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   EP         ZNE 06 44 12        22
        WEL    S         N   06 49 35        26
               LQ        N       50
        MNG    P         Z   06 44 57.2      27
        SBA   EP         ZNE 06 45 18.5      29
              ES         ZNE     50 21
              ELQ        ZNE     52 12
              ELR        ZNE     53 05
        NDF   EP         Z   06 47 26.0      44
        AFI    S         ZNE 06 56 12        53
               SS        ZNE     59 28
               LQ        NE  07 02
               LR        ZNE     05

         H  M  S         EPICENTRE    DEPTH  MAG
OCT 20  08 17 48.6      18.8N 106.7W   38KM  5.7  W. OF MEXICO
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAR   EP         ZNE 08 28 29        65
              ES         ZNE     37 22
              EPS        ZNE        53
              ELQ        ZNE     45 22
              ELR        ZNE     47 00
        AFI    P         Z   08 29 21        72
               S         ZNE     38 28
               SS        ZNE     43 08
               SSS       ZNE     46 36
               LQ        NE      48
               LR        ZNE     50
        NDF   EP         Z   08 30 16.5      83
        GNZ   EP         Z   08 30 55        91
        KRP   EP         Z   08 30 58        92
        MNG    P         Z   08 31 03        93
              (*PP)      Z       12
               E         Z       20
        WEL   EP         Z   08 31 06        94
               PP        Z       34 49
              ESKS       ZN      41 30
               S         N       42 24
               LQ        N       55 44
               LR        ZN  09 00 06
        SBA   ESS        ZNE 08 51 49       108
              ELQ        ZNE 09 02 53

         H  M  S         EPICENTRE    DEPTH  MAG
OCT 20  11 40 35.9       7.2S 129.0E  126KM  5.4  BANDA SEA
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ    P         Z   11 49 30.7U       51
        KRP   EP         Z   11 49 35.5       52
        MNG    P         Z   11 49 40.8       53
        GNZ    P         Z   11 49 49.0       54

OCT 20  AFI    P         Z   12 11 23
               S         ZNE     12 25
               T         ZNE     16 17
        NDF  E(P)        Z   12 12 20
        KRP   EP         Z   12 14 49
        MNG    P         Z   12 15 11
        COB    P         Z   12 15 30.9
        MJZ  E(P)        Z   12 16 05

OCT 20  AFI    P         ZNE 19 10 50
               S         ZNE     11 16
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          H  M  S       EPICENTRE    DEPTH  MAG
OCT 21    01 29 43,1    0,7N 100,4E  214KM  4,9  N, SUMATRA
                           H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          COB    P       Z    01 41 16,6       77
          MNG    P       Z    01 41 26,8       79

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 21    04 16 05,1    22,3N 121,0E  36KM  4,9  TAIWAN
                           H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MJZ    P       Z    04 28 13       80

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 21    06 15 05,2    25,9S 177,6W 138KM  4,3  S, OF FIJI
                           H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          RAO    P       Z    06 16 05        3
                 S       Z       49
          NDF    IP      Z    06 17 23,1U     9
          AFI    EP      Z    06 18 05       13
                 S       ZNE     20 17
          GNZ    S       ZNE 06 20 28       13
          MNG    P       Z    06 18 39,8      16
                 S       Z       21 22
                 (*SS)   Z       22 13,8

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 21    09 07 29,1    21,4S 174,1W  39KM  5,3  TONGA
                           H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          AFI    P       Z    09 09 14        8
                 S       ZNE     10 29
                 T       ZNE     16 30
          NDF    P       Z    09 09 39,5      9
          RAR    EP      ZNE 09 10 27       13
                 EL      ZNE     13 30
          CRZ    P       ZN  09 11 33       17
          GNZ    P       ZNE 09 11 44       18
                 ES      ZNE     14 54
          KRP    P       ZNE 09 11 48       19
          MNG    P       Z    09 12 11      21
                 ES      Z       15 53
          MJZ    P       ZNE 09 13 02       26
          SBA    EP      ZNE 09 17 17       57

OCT 21    GNZ    S       ZNE 14 52 39
          MNG    P       Z   14 51 37
                 ES      Z       53 30

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 22    06 08 08,2    15,8S 173,7W 102KM  5,3  TONGA
                           H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          AFI    P       ZNE 06 08 49        3
                 S       ZNE     09 16
          NDF    P       Z    06 10 17,9D    9
          RAR    EP      ZNE 06 11 24       14
                 ET      ZNE     25
          CRZ    P       Z    06 13 01       22
          GNZ    P       ZNE 06 13 15,2     24
          KRP    P       ZNE 06 13 15,6     24
          MNG    P       Z    06 13 36      26
          COB    P       Z    06 13 49,7    28
          SBA    IP      ZNE 06 18 26       63

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 22    08 22 10,6    9,8S  78,6W  62KM  5,2  N, PERU
                           H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          SBA    EP      ZNE 08 34 43       86

OCT 22    GNZ    E(P)    ZNE 11 21 22
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                I        ZNE        27.3
                S        ZNE     22 48
          WTZ   P        Z    11 21 22.8
                ES       Z       22 38
          KRP   P        ZNE 11 21 30
          TRZ   P        Z    11 21 38.9
          MNG   P        Z    11 21 51
                I        Z           53.2
                S        Z       23 37
          COB   ES       Z    11 24 11

OCT 22    AFI   P        ZNE 11 26 15
                S        ZNE     35

           H  M  S       EPICENTRE    DEPTH   MAG
OCT 22    11 31 55,7     20.7S 176.8W 248KM   4.3  FIJI REGION
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P        Z    11 33 31.0       6
          AFI   EP       Z    11 33 56         8
                S        ZNE     35 13
          CRZ   P        ZNE 11 35 35        17
          GBZ   P        Z    11 35 40.8     17
          WTZ   P        Z    11 35 49.7     18
          GNZ   P        ZNE 11 35 54.0      18
                S        ZNE     39 04
          KRP   P        ZNE 11 35 54.3      18
          MNG   P        Z    11 36 15       21
                S        Z       39 56
                SCP      Z       43 32
          COB   P        Z    11 36 30       22
          SBA   IP       ZNE 11 41 23.5      58

           H  M  S       EPICENTRE    DEPTH   MAG
OCT 22    17 51 04.5     5.4S 146.6E 166KM    4.8  NEW GUINEA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          COB   P        Z    17 58 46.6      43
          MNG   P        Z    17 58 53.9      44 -1.39                        5.2
          SBA   EP       ZNE 18 02 19        73

           H  M  S       EPICENTRE    DEPTH   MAG
OCT 22    22 38 48.9     30.4S 178.1W 106KM   4.1  KERMADEC IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   IP       Z    22 39 00.7       1  1.13
                IS       Z           13
          ONE   P        E    22 40 48         8
          WTZ   P        Z    22 40 43         9
          CRZ   IP       ZNE 22 40 54.9ZNE    9 -0.14
          GNZ   S        ZNE 22 42 23         9
          KRP   P        Z    22 40 52         9
          MNG   P        Z    22 41 19        11
                S        Z       43 21.8
          AFI   EP       Z    22 42 29        17
                S        ZNE     45 39
          SBA   EP       ZNE 22 47 20         48

           H  M  S       EPICENTRE    DEPTH   MAG
OCT 23    08 48 51.6     11.7S 166.5E 123KM   4.6  SANTA CRUZ
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P        ZN   08 54 27.1      27
          GNZ   EP       Z    08 54 38        29
          COB   P        Z    08 54 48        30
          MNG   P        Z    08 54 47.6J     30
          MJZ   P        ZNE 08 55 11         32
          MSZ   P        Z    08 55 15        33

OCT 23    AFI   (P)      ZNE 17 23 56
          WTZ   P        Z    17 24 07.3
          GNZ   P        ZNE 17 24 12.3
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            ES      ZNE     26 42
       KRP   P       Z   17 24 13.6
       MNG   P       Z   17 24 33.7
             S       Z      27 19
       COB   P       Z   17 24 46.2

OCT 23 MNG   P       Z   18 22 42.5

OCT 23 WTZ   P       Z   18 34 14.8
       KRP   P       ZE  18 34 19.3
       GNZ   P       ZNE 18 34 19.8
       MNG   P       Z   18 34 40.2
       COB   P       Z   18 34 50.3
       MSZ   P       Z   18 35 35.5

OCT 23 AFI   P       Z   19 02 23
             S       ZNE    55

OCT 24 WTZ   P       Z   00 05 06
       GNZ   P       Z   00 05 12
             S       ZNE    08 08.7
       MNG   P       Z   00 05 34
             S       Z      08 49
       COB   P       Z   00 05 47.9

        H  M  S      EPICENTRE    DEPTH  MAG
OCT 24  02 30 29.6   14.1N 121.9E 151KM        LUZON
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       MJZ  EP       Z   02 41 44      73
       MNG  P        Z   02 41 48.4    74

        H  M  S      EPICENTRE    DEPTH  MAG
OCT 24  02 50 41.6   11.5N 141.6E  34KM   5.1  N. CAROLINE IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       KRP  EP       Z   03 00 40      59
       GNZ  P        Z   03 00 43.4    60
       COB  EP       Z   03 00 44      60
       MNG  P        Z   03 00 49.4U   61
            (*PP)    Z          57.6
       MJZ  P        ZN  03 00 50.6    61

OCT 24 AFI   P       Z   05 42 09
             S       ZNE    43 00

        H  M  S      EPICENTRE    DEPTH  MAG
OCT 24  07 27 52.9   59.7S  27.4W 107KM   4.9  SOUTH SANDWICH IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       MSZ  P        Z   07 39 25.1    75 -1.32                      5.6
       COB  P        Z   07 39 40.4    78
       MNG  P        Z   07 39 41.6    78
       KRP  P        Z   07 39 59.0    81

        H  M  S      EPICENTRE    DEPTH  MAG
OCT 24  07 31 51.1   13.7N 147.1E  15KM   5.4  CAROLINE IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       KRP  P        Z   07 41 44.8    58
       COB  P        Z   07 41 55      59
       MNG  P        Z   07 41 58.7U   60 -1.64                      5.6
       MSZ  P        Z   07 42 06.1    61

        H  M  S      EPICENTRE    DEPTH  MAG
OCT 24  11 55 35.5   18.8S 169.2E 249KM        NEW HEBRIDES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
       MNG  P        Z   12 00 14.0U    22

OCT 25 AFI   P       Z   01 56 08
             S       ZNE    57 48
       WTZ   P       Z   01 57 41
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	KRP	P	Z	01	37	43											
	MNG	P	Z	01	58	05,5											
OCT 25	AFI	P	ZNE	03	58	25											
		S	ZNE			43											
OCT 25	KRP	P	Z	05	40	19,4											
	MNG	P	Z	05	40	40,7											
OCT 25	AFI	P	Z	07	48	21											
		S	ZNE			43											
OCT 25	AFI	P	ZNE	09	02	00											
		S	ZNE			18											

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 25	18	25	55,3	70,9N	7,0W	33KM	5,3	N. OF ICELAND								
				H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	PKP	Z	18	45	38		147								
		PKP2	ZNE			45										
	GNZ	PKP2	Z	18	45	46,7		148								
	MNG	PKP2	Z	18	45	46		150								
	MJZ	PKP2	ZN	18	45	55		153								

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 25	21	56	06,4	44,2N	9,7E	33KM	5,1	N. ITALY								
				H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPKP	ZNE	22	15	41		145								

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 26	07	08	53,2	52,4S	26,8E	33KM	4,8	S. OF AFRICA								
				H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	07	17	15,5		48								

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 26	17	05	03,7	27,4N	128,5E	47KM	6,0	RYUKYU IS								
				H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	17	16	30		71								
		ES	E		25	36										
		ELR	ZNE		38											
	KRP	EP	Z	17	17	02		79								
		*PP	Z			13,8										
	MSZ	P	Z	17	17	10,2		80								
		*PP	Z			22,7										
	GNZ	P	ZNE	17	17	10,5		80								
		*PP	ZNE			23,5										
	MJZ	P	ZN	17	17	13		81								
		*PP	ZN			25,8										
	SBA	EPKP	ZNE	17	23	35		107								

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 26	22	48	34,4	14,3S	167,2E	157KM	5,4	NEW HEBRIDES								
				H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	22	53	05		20	=0,43							5,9
	KRP	P	ZN	22	53	41,7		25								
		*PP	Z		54	16										
		*SP	Z			37,9										
	GNZ	(*SP)	Z	22	54	49		26								
	MNG	P	Z	22	54	10,3		27								
		*PP	Z			43,0										
	MJZ	P	ZNE	22	54	25,9		30								
	MSZ	P	Z	22	54	31,8		30	=0,83							5,9
	SBA	IP	ZNE	22	58	49		64	=0,29							6,7
OCT 27	AFI	P	ZNE	03	45	36,9J										
		S	ZNE			59										

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 27	09	23	08.7	20.0S	168.9E	39KM	5.7	NEW HEBRIDES								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	ZNE	09	27	28		19							
			S	ZNE		31	18									
	AFI		P	ZNE	09	27	32		19							
			PP	ZE			46									
			PPP	ZE		28	05									
			S	ZNE		31	11									
			SS	NE			20									
			LR	ZNE		33										
	GNZ		IP	ZNE	09	27	43.0		20							
			E(*PP)	Z			58.2									
			S	ZNE		31	37									
	MNG		P	Z	09	27	54.2		21							
			I	Z		28	03.5									
			S	Z		31	54									
	HEL		P	ZNE	09	28	00		22							
			S	ZNE		32	01									
			LQ	NE		33	11									
			LR	ZNE							106	19	55	19	90	20
	MJZ		P	ZNE	09	28	22.9		24							
	MSZ		IP	Z	09	28	30.2D		25	-0.87						5.5
	RAR		EP	ZNE	09	29	04		29							
			ES	ZNE		34	02									
			ELQ	ZNE		35	12									
			ELR	ZNE		36	40									
	SBA		EP	ZNE	09	32	58		58							
			EPCP	ZNE		33	59									
			ES	ZNE		41	00									
			ESCS	ZNE		42	50									
			ELQ	ZNE		47	43									

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 27	10	05	44.3	7.3S	146.9E	17KM	5.0	NEW GUINEA								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	ZNE	10	13	21.0		40	-1.16							5.6
	MSZ		P	Z	10	13	35.8		41								
	MNG		IP	Z	10	13	35.1J		42	-1.11							5.7
	GNZ		P	ZNE	10	13	36.3U		42								
	MJZ		P	ZNE	10	13	38.2		42								
	SBA		EP	ZNE	10	17	04		71								
OCT 27	AFI		P	ZNE	14	53	11										
			S	ZNE		54	40										

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 28	01	01	20.4	2.6N	128.7E	48KM	5.4	HALMAHERA								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		P	Z	01	11	14.8		59								
	COB		EP	Z	01	11	18		59								
	KRP		P	Z	01	11	19.3		59								
	MJZ		P	ZNE	01	11	21.3		60	-1.20							6.0
	SBA		EP	ZNE	01	13	40		83								
			ESKS	ZNE		24	02										

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 28	01	10	33.5	2.6N	128.5E	33KM	5.2	HALMAHERA								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ		P	ZN	01	20	34.6		60								

	H	M	S	EPICENTRE		DEPTH	MAG									
OCT 28	02	27	10.1	7.3S	146.7E	2KM	5.9	NEW GUINEA								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAJ		EP	Z	02	34	47		40	-0.03							6.7
	KRP		P	ZNE	02	34	48.8		40								
			I	ZNE			50.3										

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          PP      ZNE      36 31
     CNZ  P       Z   02 34 56,5      41
        I         Z        58,2
     AFI  P       Z   02 34 59         41
          S       ZNE      41 14
          SS      ZNE      44 28
          LQ      NE       45 45
          LR      ZE       47
     MSZ  P       Z   02 35 01,2       42
     WEL  P       ZNE 02 35 05         42
          S       ZNE      41 23,5
     GNZ  P       ZNE 02 35 04,5       42
        I         ZE       06,1
          (PS)    ZN       40 54
          S       ZNE      41 27
     MJZ  P       ZNE 02 35 05,1U      42
          (PS)    Z        40 49
     RAR  ES      ZNE 02 44 05         53
          EL      ZNE      54
     SBA  EP      ZNE 02 38 33         71
          ES      ZNE      47 53
          ELQ     ZNE      57 20

      H  M  S       EPICENTRE    DEPTH  MAG
OCT 28  03 16 52,0   15,3S 167,9E 128KM  5,8  NEW HEBRIDES
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     RAO  P       Z   03 21 13         19  0,38                        6,6
          *PP     Z        37
          S       Z        25 01
     AFI  P       ZNE 03 21 18         20
          PP      ZNE      48
          S       ZNE      24 52
          SS      ZNE      25 40
          (SCP)   Z        28 52
     KRP  IP,     ZNE 03 21 53,8US     24
          E       NE       26 02
          S       ZNE      14
          SCP     ZNE      29 03,5
          SCS     NE       32 49
     CNZ  IP      Z   03 22 04,9U      25
          S       Z        26 22
          SCP     Z        29 04
          SCS     Z        33 05
     GNZ  IP      ZNE 03 22 05,2U      25
          S       ZNE      26 21
          SCS     ZNE      32 55
     MJZ  P       ZNE 03 22 38,4U      29
          PCP     ZNE      25 46,3
          S       ZNE      27 21
          SCP     ZNE      29 19,0
          SCS     ZNE      33 09
     MSZ  IP      Z   03 22 44,0U      29 -0,56                        6,0
          SCP     Z        29 15,8
     RAR  EP      ZNE 03 23 04         32
          ES      ZNE      27 57
          ELR     ZNE      30 30
     SBA  IP      ZNE 03 27 04,0       63  0,37                        7,4
          ES      ZNE      35 27
          ESS     ZNE      39 30
          ELQ     ZNE      42 54
          ELR     ZNE      46 30

      H  M  S       EPICENTRE    DEPTH  MAG
OCT 28  04 31 55,8   5,9S 154,5E  95KM  5,2  SOLOMON IS
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP  P       Z   04 39 01,3       37 -1,26                        5,6
     CNZ  EIP     Z   04 39 10,5U      38
     GNZ  EIP     ZNE 04 39 15,0U      39
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          ES      ZNE 05 05 08
     MSZ  P       Z   04 59 28.0      40
          *PP     Z       49.5
     MJZ  P       ZN  04 59 31.8      40
     SBA  EP      ZNE 05 03 12.6      72

OCT 28 MNG  P       Z   06 27 52.6
          S       Z       30 17

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 28      11 57 53.4   5.9N 126.0E  129KM       MINDANAO
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  P       Z   12 08 08.6      63

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 28      17 19 41.5   2.5N 128.7E   68KM  5.7  HALMAHERA
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  P       Z   17 29 32.6      59
          MJZ  P       ZNE 17 29 39.0      59
          MNG  P       Z   17 29 40.7      60

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 28      17 54 15.8   33.3N 140.1E  93KM  4.8  S. OF HONSHU
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P       Z   18 06 08.2D     78 -1.35                        5.6
          MNG  P       Z   18 06 19.3      80

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 28      18 31 21.6   2.5N 128.6E   80KM  5.4  HALMAHERA
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  P       Z   18 41 11.6      59
          MJZ  P       ZNE 18 41 18.2      60
          MNG  EP      Z   18 41 19.8      61

OCT 28    AFI  P       Z   22 30 19
               S       ZNE    31 22
               T       ZNE    36

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 29      04 24 12.1   2.2N 128.2E  103KM  4.7  HALMAHERA
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MJZ  P       Z   04 34 04.8      60
          MNG  P?      Z   04 34 13.3      61

OCT 29    AFI  P       Z   04 52 19
               S       ZNE    54 15
          KRP  P       ZNE 04 53 20.2D        -1.21
          GNZ  P       ZNE 04 53 32.1         -1.16
               ES      ZNE    56 20
          MNG  P       Z   04 53 50.0
               ES      Z      56 48
               (SCP)   Z   05 00 19.9
          COB  P       Z   04 54 01
          MJZ  P       Z   04 54 34.0
          MSZ  P       Z   04 54 46.8

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 29      07 20 38.5   33.0N 137.7E 331KM  5.5  S. OF HONSHU
                            H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI  IP      Z   07 30 58.7U      67
          KRP  IP      ZNE 07 32 07.7D      79
               *PP     Z       33 28.1
          GNZ  P       ZNE 07 32 15.2       81
          MNG  P       Z   07 32 17.8       81
               PCP     Z       25.0
               *PP     Z   33 38.8
               (*SP)   Z       58
          MSZ  P       Z   07 32 24.0       82
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                *PP     Z       33 44.0
        MJZ     IP      ZNE 07  32 24.5J     82
                *PP     ZN      33 43.5

OCT 29  SBA     EP      ZNE 09  53 01

         H  M   S        EPICENTRE    DEPTH   MAG
OCT 29  13 34  50.2      6.9S 129.2E  148KM   5.6  BANDA SEA
                        H   M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
        MSZ     P       Z   13  43  34.6J   50 -1.10                       5.7
        MJZ     P       Z   13  43  43.0J   52 -1.20                       5.7
        KRP     P       ZE  13  43  46.9     52
        MNG     P       Z   13  43  52.7J   53
        SBA     EP      ZNE 13  46  08      74

         H  M   S        EPICENTRE    DEPTH   MAG
OCT 29  16 55  11.2      59.8S  26.3W  33KM        SOUTH SANDWICH IS
                        H   M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
        KRP     P       Z   17  07  37      81

         H  M   S        EPICENTRE    DEPTH   MAG
OCT 29  17 41  17.3      31.4S 178.1W  99KM   5.3  KERMADEC REGION
                        H   M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
        RAO     IP      Z   17  41  44.8J   2
        GNZ     P       Z   17  43  05      8
                S       ZNE     44  35
        KRP     EP      ZNE 17  43  16      8
                S       NE      44  50
        CNZ     P       Z   17  43  28.7     9
                S       Z       45  09
        MNG     P       Z   17  43  40      11
                S       Z       45  35
        COB     EP      Z   17  44  11      12
                S       Z       46  14
        MSZ     P       Z   17  45  10      17
                S       Z       48  08
        AFI     P       ZN  17  45  27      18
                S       ZN      48  35
                T       ZN  18  03
        SBA     EP      ZNE 17  49  48.2    47

OCT 29  KRP     P       ZNE 17  48  58
        GNZ     P       ZNE 17  49  07.0
                S       ZNE     51  10
        CNZ     P       Z   17  49  17.9
                S       Z       51  39
        MNG     P       Z   17  49  30.9

         H  M   S        EPICENTRE    DEPTH   MAG
OCT 29  19 08  30.6      56.0S  27.3W 114KM   5.1  SOUTH SANDWICH IS
                        H   M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
        SBA     EP      ZNE 19  16  45.2    46
        MSZ     P       Z   19  20  22      79
        KRP     P       Z   19  20  50.2    84 -1.30                       5.6

         H  M   S        EPICENTRE    DEPTH   MAG
OCT 29  23 47  16.9      30.2S  60.7E  33KM   6.1  INDIAN OCEAN
                        H   M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
        SBA     EP      ZNE 23  57  50      64

         H  M   S        EPICENTRE    DEPTH   MAG
OCT 30  10 29  51.2      21.1S 170.2E 154KM   5.0  LOYALTY IS
                        H   M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE   MAG
        CRZ     P       ZNE 10  32  58.2    13
                I       ZNE     33  05.6
        KRP     P       ZNE 10  33  46.6    17
                (*PP)   ZN      34  00.0
        WTZ     P       Z   10  33  52.4    18
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          (*PP)   Z       34 06.2
      AFI   P     ZNE 10 34 00        19
      CNZ   P     Z   10 34 02.5       19
      GNZ   P     ZNE 10 34 00.8      19
            S     ZNE     37 33
      TRZ   P     Z   10 34 06.2U     19
      COB   P     Z   10 34 17        20
          (*PP)   Z       35
      WEL   P     Z   10 34 20.4      20
      MJZ   P     ZNE 10 34 42        23
            E     ZN      35 10
      MSZ   P     Z   10 34 50.3      24
      SBA   IP    ZNE 10 39 21  D     57 -0.41                          6.6

       H  M  S      EPICENTRE    DEPTH  MAG
OCT 30 13 43 59.2  18.4S 177.9W  645KM  4.6  FIJI REGION
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      AFI   P     Z   13 45 48         7
            S     ZNE     47 17
      WTZ   P     Z   13 47 49.3       20
      KRP   P     Z   13 47 54.2       20
      GNZ   P     ZNE 13 47 56.0       20
      COB   EP    Z   13 48 25         24
      SBA   EP    ZNE 13 53 08.5       60

OCT 30 KRP   P     Z   14 05 11.9

       H  M  S      EPICENTRE    DEPTH  MAG
OCT 30 16 48 09.4   6.3S 154.8E   90KM  5.8  SOLOMON IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      AFI   P     ZNE 16 54 47        34
            ES    ZE  17 00 08
            ESSS  ZNE     02 28
            ELR   ZE      04
      KRP   P     Z   16 55 14.2       37
            *PP   Z         26.5
            PCP   Z       57 36.2
            *PPCP Z         47.8
      CNZ   P     Z   16 55 22.6       38
      GNZ   P     ZNE 16 55 28.1       38
            S     ZNE 17 01 19.8
      WEL   P     ZNE 16 55 33.3       39
            PP    Z     57 27
            S     ZNE 17 01 28
            L     ZE      04
      MJZ   P     ZNE 16 55 41.6       40
            PCP   ZNE     57 44
            *PPCP Z       57
      MNW   P     Z   16 55 47.7       41
      SBA   EP    ZNE 16 59 28.6       72
            EPCP  ZNE       50
            ES    ZNE 17 08 50
            ESS   ZNE     13 28
            ESSS  ZNE     17 06
            ELQ   ZNE     19 00
            ELR   ZNE     21 30

       H  M  S      EPICENTRE    DEPTH  MAG
OCT 30 21 44 23.5   5.6S 154.5E  101KM  4.1  SOLOMON IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      KRP   P     Z   21 51 29.0       37
      CNZ   P     Z   21 51 37.8       38

       H  M  S      EPICENTRE    DEPTH  MAG
OCT 31 06 10 31.5   5.0S 152.8E   61KM  4.8  NEW BRITAIN
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      KRP   P     Z   06 17 52.5       39
      CNZ   P     Z   06 18 02         40
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        MSZ  EP       Z   06 18 17.8      42

OCT 31  AFI  (P)      ZNE 17 43 58
        CRZ   P       ZNE 17 44 00.5
        WTZ   P       Z   17 44 20.0
        KRP   P       ZNE 17 44 24
        GNZ   P       ZNE 17 44 26.1
              S       ZNE     47 03
        CNZ   P       Z   17 44 38
        MSZ   P       Z   17 45 41.8

OCT 31  RAO  IP       Z   18 43 15.00
             IS       Z       24

OCT 31  SBA  EP       ZNE 19 20 02

         H  M   S      EPICENTRE    DEPTH  MAG
OCT 31  23 24 12.5     6.1S 104.9E   73KM  5.4  W. JAVA
                         H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   23 34 57.7      67 -1.06                      6.0
        MJZ   P       ZN  23 35 06.8      68
        KRP   P       Z   23 35 25.1      71
        CNZ   P       Z   23 35 25.8      71 -0.76                      6.2
        MNG   EP      Z   23 35 24        71

         H  M   S      EPICENTRE    DEPTH  MAG
NOV 01  00 23 21.9     6.6S 154.4E   41KM  5.0  SOLOMON IS
                         H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP      Z   00 30 43        37
        MNG   P       Z   00 30 51.0      39
        MSZ   P       Z   00 30 55        40

         H  M   S      EPICENTRE    DEPTH  MAG
NOV 01  06 29 43.7     20.1S 173.9W   33KM  5.1  TONGA
                         H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       ZNE 06 31 12        6
              S       ZNE     32 21
              T       ZNE     38
        RAO   P       Z   06 32 01.0      10
             ES       Z       33 43
        RAR   EP      ZNE 06 32 37.5      13
              EL      ZNE     36
        CRZ   P       ZNE 06 34 01.7      19
        KRP   P       ZNE 06 34 15.4      20
        MNG   P       Z   06 34 40.0      22
             PP       Z       35 14
              S       Z       38 40
        COB   EP      Z   06 34 59        24
        MJZ   EP      ZNE 06 35 30        27
        MNW   P       Z   06 35 52.0      30
        SBA   EP      ZNE 06 39 41        59

         H  M   S      EPICENTRE    DEPTH  MAG
NOV 01  15 24 30.7     41.5N 142.8E   76KM  5.3  HOKKAIDO
                         H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       ZNE 15 36 58.0      85
              E       Z       37 08.0
             E-PP     Z       22.0
        MNG   P       Z   15 37 09.0      87
             -PP      Z       32.8
        MJZ   P       Z   15 37 18.0      89

NOV 01  AFI   P       ZNE 16 18 38
              S       ZNE     19 09
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	H M S	EPICENTRE	DEPTH	MAG								
NOV 01	21 22 15.4	6.3S 144.5E	39KM	5.4 NEW GUINEA								
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ P	ZNE 21 29 35.8		38	=0.20							6.6
	KRP EIP	ZNE 21 30 08.9	USE	42	=0.39							6.3
	PCP	ZN 32 01.0										
	COB EIP	Z 21 30 13.2	U	43	=0.21							6.5
	AFI P	ZNE 21 30 19		44								
	MJZ P	ZNE 21 30 21.0		44	=0.86							6.0
	eSP	ZNE 38.0										
	MNG EIP	Z 21 30 22.0	U	44	=0.30							6.5
	ePP	Z 30.8										
	WEL P	Z 21 30 21		44								
	MNW P	Z 21 30 23.0		44	=0.91							5.9
	GNZ EIP	ZNE 21 30 23.0	U	44	=0.19							6.6
	SBA EP	ZNE 21 33 40		72								
NOV 01	KRP EP	Z 23 34 17.8										
	H M S	EPICENTRE	DEPTH	MAG								
NOV 02	01 26 57.6	49.9N 78.8E	0KM	6.2 E. KAZAKHSTAN								
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP PKP	ZNE 01 45 53.0		122								
	MSZ PKP	Z 01 45 53.5		122								
	COB PKP	Z 01 45 52.9		122								
	MJZ PKP	ZNE 01 45 56.6		123								
	MNG PKP	Z 01 45 55.6		123								
	PKP2	Z 46 29.0										
	SBA EPKP	ZNE 01 46 12.7		138								
NOV 02	KRP P	Z 01 55 54.5										
	H M S	EPICENTRE	DEPTH	MAG								
NOV 02	09 51 47.0	6.4S 131.2E	33KM	5.7 BANDA SEA								
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MJZ P	ZNE 10 00 48.0		51								
	ePP	Z 01 00.1										
	KRP EP	ZE 10 00 49.0		51								
	MNG P	Z 10 00 55.3		52								
	ePP	Z 01 07										
	AFI ES	NE 10 09 48		57								
	ELR	ZE 19										
	SBA EP	ZNE 10 03 21		74								
	ES	ZNE 12 58										
	ESCS	ZNE 13 34										
	EL	ZNE 25 00										
NOV 02	AFI P	Z 15 24 49										
	S	ZNE 25 23										
NOV 02	RAO EP	Z 15 27 36										
	ES	Z 28 07										
NOV 02	SBA EP	ZNE 15 33 41										
	ES	ZNE 43.6										
	H M S	EPICENTRE	DEPTH	MAG								
NOV 02	19 55 22.1	20.0S 168.8E	32KM	6.3 LOYALTY IS								
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ P	ZNE 19 58 53		15								
	SCP	ZNE 20 06 13										
	RAO EP	Z 19 58 59.8		15								
	KRP P	ZNE 19 59 41.0		19	0.01							6.2
	SCP	ZNE 20 07 02.0										
	WTZ P	Z 19 59 47.7		19								
	S	Z 20 03 43.2										

		SCP	Z		07	07,0							
	AFI	IP	ZNE	19	59	46,4	UNE	20					
		PP	Z	20	00	03							
		S	ZNE		03	20							
		LR	ZNE		05								
	GNZ	P	ZNE	19	59	55,0		20					
		S	ZNE	20	03	48,0							
		E	Z		07	03,2							
		ISCP	ZNE			16,0							
		E	E		11	11,0							
		SCS	ZNE			29,8							
	TRZ	P	Z	20	00	02,7		21					
		PCP	Z		03	58,0							
		S	Z		04	37,0							
		ISCP	Z		07	22,0							
	MNG	P	Z	20	00	06,8		21					
		I	Z			11,9							
		E	Z		02	45,0							
		E	Z		05	53,0							
		E	Z		07	16,9							
		ISCP	Z			29,6							
		E	Z		15	53,5							
	COB	P	Z	20	00	10,0		21	0,18				6,5
		ISCP	Z		07	29,2							
	HEL	P	ZNE	20	00	13		22					
		S	ZNE		04	15,2							
	CAZ	P	Z	20	00	14,4		22					
	MJZ	P	ZNE	20	00	37,2		24					
		I	Z		01	07,0							
		PCP	Z		04	19,8							
		SCP	Z		07	56,0							
		ESCS	NE		11	39							
	MSZ	EP	Z	20	00	43,0		25					
		I	Z			46,3							
		(PCP)	Z		03	54,8							
		SCP	Z		08	04,5							
	ROX	P	ZNE	20	00	48		25					
		IS	NE		05	14							
	SBA	EP	ZNE	20	05	10,5		58					
		ES	ZNE		13	13							
		ESCS	ZNE		15	00							
		ESS	ZNE		17	00							
		ELQ	ZNE		19	55							
		ELR	ZNE		22	30							
NOV 02	CRZ	EP?	Z	21	03	34							
	KRP	P	Z	21	04	21,0							
	GNZ	P	ZNE	21	04	24							
	MNG	EIP	Z	21	04	47,8	U						
	COB	EP	Z	21	04	49							
	MJZ	EP	Z	21	05	16							
	MSZ	EP	Z	21	05	25							

	H	M	S	EPICENTRE		DEPTH	MAG									
NOV 02	21	08	37,3	20,3S 169,0E		21KM	5,0	NEW HEBRIDES								
					H	M	S	DIR	DIS	LGmA/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	21	12	57,5		18								
	GNZ	P		ZNE	21	13	11,6		20								
	MNG	P		Z	21	13	33,0		21								

	H	M	S	EPICENTRE		DEPTH	MAG									
NOV 02	23	09	50,3	16,5S 172,7W		33KM	5,0	SAMOA REGION								
					H	M	S	DIR	DIS	LGmA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P		ZNE	23	10	27		3								
		S		ZNE			56										
		T		ZNE		13											
	KRP	P		ZNE	23	15	03,0		24								
		PSP		ZNE			17,0										

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        COB   EP       Z   23 15 41.5       28
        SBA   EP       ZNE 23 20 12         62

NOV 03  MNQ   EP       Z   02 34 01

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 03  03 21 03.8     4.7S 153.5E   69KM  4.3  NEW IRELAND
                          H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   03 28 23.0       39
        COB   P        Z   03 28 34.8       40
        MNQ   P        Z   03 28 39.0       41
        MSZ   P        Z   03 28 48.0       42 -0.86                       5.9
              I*PP     Z      29 10.5
        MJZ   P        ZNE 03 28 48.0       42
        SBA   EP       ZNE 03 32 30         73

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 03  07 09 28.7     20.1S 168.6E  22KM  4.8  LOYALTY IS
                          H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP       Z   07 13 49         19
        MNQ   EP       Z   07 14 19         21
        MJZ   EP       Z   07 14 46         24
        SBA   EP       ZNE 07 19 19.5       58

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 03  07 58 12.3     20.2S 169.1E  41KM  4.8  NEW HEBRIDES
                          H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CRZ   EP       ZNE 08 01 41         15
        KRP   P        ZE  08 02 28.5       19
        GNZ   P        ZNE 08 02 43.9       20 -0.17                       6.0
        MNQ   P        Z   08 02 55.0U      21 -0.76                       5.5
        COB   P        Z   08 02 57.2       21
        MJZ   P        ZNE 08 03 23.6       24
        MSZ   P        Z   08 03 30.5       24
        SBA   EP       ZNE 08 08 00         58

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 03  15 06 21.8     19.8S 169.2E  15KM  5.0  NEW HEBRIDES
                          H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P        Z   15 10 40         19
              S        NE      14 16
              SS       ZNE        28
              SSS      E       15 08
              LR       ZNE     16
        KRP   P        ZNE 15 10 44.0       19
        GNZ   EP       ZNE 15 10 56         20
        MNQ   P        Z   15 11 09.5       21
        COB   EP       Z   15 11 12         21
        MJZ   EP       ZNE 15 11 39         24
        RAR   ES       ZNE 15 18 23         29
        SBA   EP       ZNE 15 16 14.5       58

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 03  16 13 42.0     13.4S 111.4W  33KM  5.1  E. PACIFIC OCEAN
                          H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    SSS     NE  16 38 28         59
               LR      ZE      41

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 03  16 15 03.1     20.1S 168.8E  26KM  5.4  LOYALTY IS
                          H  M  S    DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP       ZNE 16 19 23         19
        AFI   P        Z   16 19 36         20
              S        E       23 04
            (SSS)      N          48
              LR       ZE      25
        GNZ   EP       ZNE 16 19 37.5       20
        MNQ   P        Z   16 19 49.7       21
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                 *PP      Z          57,8
          MJZ    EP       ZNE 16 20 20          24
          MSZ    EP       Z   16 20 25          25
          SBA    EP       ZNE 16 24 53          58

           H  M  S         EPICENTRE    DEPTH  MAG
NOV 03    18 06 16,3      19,2S 169,7E  28KM        NEW HEBRIDES
                             H  M  S   DIR DIS LG mA/T  AZ TZ  AN TN  AE TE  MAG
          KRP    EP       Z   18 10 42          19
          MNQ     P       Z   18 11 09,0        22
          MJZ    EP       Z   18 11 36          25

NOV 03    KRP     P       Z   20 52 37,0
          GNZ    EP       ZNE 20 52 50
          MNQ     P       Z   20 53 05,0
          MJZ    EP       ZNE 20 53 39
          MSZ    EP       Z   20 53 49

NOV 03    GNZ     P       Z   21 12 16
          MNQ     P       Z   21 12 20

NOV 03    RAO     P       Z   22 29 45
                 ES       Z       57

           H  M  S         EPICENTRE    DEPTH  MAG
NOV 03    22 42 38,4      19,6S 169,4E  22KM  5,2  NEW HEBRIDES
                             H  M  S   DIR DIS LG mA/T  AZ TZ  AN TN  AE TE  MAG
          AFI     P       Z   22 47 00          19
                  SS      E       50 40
                  SSS     ZN      51 03
                  LR      ZE      52
          KRP     P       ZNE 22 47 00,5        19
          CNZ     P       Z   22 47 15,5        20
          GNZ     P       ZNE 22 47 15,2        20
          MNQ     P       Z   22 47 28,0        22
          COB     P       Z   22 47 30,0        22
          MJZ     P       ZNE 22 47 57,0        24
                  PCP     Z       51 36
          MSZ     P       Z   22 48 03          25

NOV 03    RAO     P       Z   22 43 31
                 ES       Z       43

           H  M  S         EPICENTRE    DEPTH  MAG
NOV 04    00 46 04,3      19,6S 169,4E  18KM  4,4  NEW HEBRIDES
                             H  M  S   DIR DIS LG mA/T  AZ TZ  AN TN  AE TE  MAG
          KRP     P       Z   00 50 28,0        19
          CNZ    EP       Z   00 50 43          20
          GNZ    EP       Z   00 50 45          20
          MNQ     P       Z   00 50 54,2        22
          MJZ     P       Z   00 51 23,0        24

           H  M  S         EPICENTRE    DEPTH  MAG
NOV 04    03 49 56,6      20,1S 169,1E  93KM  5,7  NEW HEBRIDES
                             H  M  S   DIR DIS LG mA/T  AZ TZ  AN TN  AE TE  MAG
          CRZ     P       ZNE 03 53 24,0        15
          KRP     P       ZNE 03 54 13,0U       19 -0,39                     5,8
          WTZ     P       Z   03 54 17,0        19
          AFI     P       ZNE 03 54 18          19
                  PP      Z       28
                  PPO     Z       55 00
                  S       ZNE     57 50
                  LR      ZE      59 42
          ECZ     P       Z   03 54 21,0        19
          GNZ    IP       ZNE 03 54 27,5JS      20  0,40                     6,6
                  S       ZNE     58 19
          TRZ     P       Z   03 54 32,8J       20
          COB     P       Z   03 54 41,0        21
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          I*PP     Z                50.0
     MNG  IP       Z    03 54 39.10      21
     WEL   P       ZNE  03 54 44.0       22
           S       NE      58 42
     MJZ   P       ZNE  03 55 07.0       24
           SCP     ZN   04 02 46
     MSZ   P       Z    03 55 13.0       25
     RAR   EP      ZNE  03 55 55          29
           ES      ZNE  04 00 55
           ELR     ZNE     03 12
     SBA   IP      ZNE  03 59 43.8       58
           ES      ZNE  04 07 38
           ESS     ZNE     12 00
           ESSS    ZNE     14 20
           ELQ     ZNE         40
           ELR     ZNE     17 30

NOV 04 AFI   P      ZNE  05 21 04.7
           S       ZNE         25

NOV 04 RAO   EP     Z    08 29 52
           ES      Z       30 08
       KRP EP      Z    08 34 06.0
       GNZ EP      Z    08 34 16
       MNG EP      Z    08 34 33.0

        H  M  S      EPICENTRE    DEPTH  MAG
NOV 04 09 47 19,9    4,8S 144,6E   85KM  5,6  BISMARCK SEA
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
       KRP   P       ZNE  09 55 17.0       43
             PCP     Z       57 04.0
             SCP     Z    10 00 02.0
       AFI   P       Z    09 55 19          44
             S       ZN   10 01 57
             SS      ZNE     05 12
             SSS     ZN          44
             LR      ZE      08
       COB   P       Z    09 55 22          44 -0,51                    6,4
             PCP     Z       57 05
       MSZ   P       Z    09 55 26.5        45
             PCP     Z       57 08
             ESCP    Z    10 00 57
       MNG   P       Z    09 55 30.2        45 -0,52                    6,4
       MJZ   P       ZNE  09 55 31          45
             PCP     Z       57 09
             SCP     Z    10 00 58
       WEL   P       ZNE  09 55 30          45
             S       NE   10 02 04
       GNZ   P       ZNE  09 55 31          45
             PCS     NE   10 01 06
             S       E       02 07
             SCS     E       05 19
       SBA   EP      ZNE  09 58 47          74
             ES      ZNE  10 08 18
             EPS     ZNE         50
             ESS     ZNE     13 20
             ELR     ZNE     22 50

NOV 04 MSZ   EP     Z    10 48 08
       KRP   EP     Z    10 48 14
       MJZ   P      ZNE  10 48 16.0

        H  M  S      EPICENTRE    DEPTH  MAG
NOV 04 11 07 49,7    20,2S 178,0W 594KM  4,7  FIJI REGION
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
       AFI   P       ZNE  11 09 49           9
             S       ZNE     11 17
       RAO   P       Z    11 09 48           9
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            ES      Z       11 21
        CRZ  P      Z    11 11 13.2      16
        GBZ  P      Z    11 11 17.0      17
        WTZ  P      Z    11 11 26.0      18
        KRP  P      Z    11 11 32.0      19
        GNZ  P      ZNE  11 11 32.0      19
        MNG  P      Z    11 11 51.3      21
        WEL  EP     Z    11 12 00        22
        COB  EP     Z    11 12 04        22
        SBA  EP     ZNE  11 16 51.8      58

NOV 04  KRP  EP     Z    15 16 59
        GNZ  P      Z    15 17 07
        MNG  P      Z    15 17 19.0

         H  M  S      EPICENTRE    DEPTH  MAG
NOV 04  17 02 09,0   20,1S 169,1E   45KM        NEW HEBRIDES
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP     Z    17 06 26        19
        MNG  P      Z    17 06 54.0      21

         H  M  S      EPICENTRE    DEPTH  MAG
NOV 04  21 36 01,7   8,2S 112,3E  126KM  6,0  JAVA
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P      Z    21 45 58.0      60
             PCP    Z       46 31.0
        MJZ  P      ZNE  21 46 07.5      62 =0,72                       6,4
             *PP    ZNE       39.0
             PCP    ZNE       40.0
        COB  P      Z    21 46 14.0      62
             (PCP)  Z       45
        KRP  P      ZNE  21 46 24.0      64
             (*PP)  ZE         55
             SCP    Z       50 47.7
        WEL  P      ZNE  21 46 21.0      64 =0,50                       6,5
             PCP    Z       55.0
        MNG  P      Z    21 46 25.0      64 =0,71                       6,3
             PCP    Z       58.0
        WTZ  P      Z    21 46 29.8      65
             PCP    Z       47 03.0
        AFI  P      Z    21 47 29        74
             S      N       57 02
        SBA  EP     ZNE  21 47 28        75
             ES     ZNE     56 56

NOV 04  AFI  P      Z    21 52 44
             S      ZNE     53 04

NOV 04  RAO  P      Z    21 53 15.0
             ES     Z       26

         H  M  S      EPICENTRE    DEPTH  MAG
NOV 04  23 48 22,3   20,2S 168,9E   21KM  5,2  LOYALTY IS
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CRZ  P      ZNE  23 51 58        15
        KRP  P      ZNE  23 52 41,7      19
        WTZ  P      Z    23 52 51        19
        AFI  P      Z    23 52 48        19
             SS     ZNE     56 39
             LR     ZNE     58                      27 20          24 20
        GNZ  P      ZNE  23 52 55,5      20
             *SP    ZE      53 16.0
        MNG  P      Z    23 53 07.0      21
        WEL  P      ZNE  23 53 11        22
             S      ZNE     57 12
        MJZ  P      ZNE  23 53 40        24
             (*SP)  ZNE        53
        MSZ  EP     Z    23 53 42        24
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                (*PP)     Z          51
          RAR   ES        ZNE 23 59 30          29
                EL        ZNE 00 02
          SBA   EP        ZNE 23 58 12          58

           H  M  S        EPICENTRE    DEPTH   MAG
NOV 05     00 05 50.2     9.7S 122.2E   33KM   5.8  W. OF TIMOR
                                H  M  S   DIR DIS LQ.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P         Z    00 15 01          53
          MJZ   P         ZNE  00 15 11.0        54
                E         Z       43 50
          COB   P         Z    00 15 15.0        54
                *PP       Z       24.8
          KRP   P         ZNE  00 15 23.0        55
                E         Z       42 48
          MNQ   P         Z    00 15 27.0        56
                E         Z       43 19
          GNZ   P         ZNE  00 15 36.5        57
          AFI   P         Z    00 16 33          65
          SBA   EP        ZNE  00 17 10          72

NOV 05    RAO   EP        Z    00 14 01.0
                ES        Z       21

NOV 05    RAO   P         Z    00 34 07.0
                S         Z       22.0

           H  M  S        EPICENTRE    DEPTH   MAG
NOV 05     00 59 32.1     20.3S 168.9E   21KM   4.9  LOYALTY IS
                                H  M  S   DIR DIS LQ.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P         ZNE  01 03 51.0        18
          GNZ   (*PP)     ZNE  01 04 19.7        20
          MNQ   P         Z    01 04 17.8        21
          MJZ   EP        ZNE  01 04 49          24
          SBA   EP        ZNE  01 09 21          58

NOV 05    KRP   E(P)      Z    01 05 33
          MNQ   P         Z    01 06 04.5

NOV 05    MNQ   P         Z    02 40 44.0

NOV 05    AFI   P         ZNE  02 55 53
                S         ZNE     56 31

NOV 05    MNQ   P         Z    04 03 14.5

NOV 05    AFI   P         ZNE  07 44 58
                S         ZNE     45 19

           H  M  S        EPICENTRE    DEPTH   MAG
NOV 05     13 32 18.4     22.2S 179.6W  635KM   4.9  S. OF FIJI
                                H  M  S   DIR DIS LQ.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   P         Z    13 34 06.0         7
          AFI   EP        Z    13 34 44          11
                S         ZNE     36 36
          KRP   P         Z    13 35 37.0        16
                E         Z       54.0
          GNZ   EP        Z    13 35 40          16
                S         ZNE     38 22
          MNQ   EP        Z    13 35 58          19
                PCP       Z       40 13.0
                SCP       Z       42 35.5

NOV 05    RAO   P         Z    17 10 29.0
          KRP   P         Z    17 11 59
          GNZ   EP        Z    17 12 01
                S         ZNE     14 29
          TRZ   S         Z    17 14 49
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          MNG   P       Z    17 12 23.0
                S       Z       15 07
          WEL   S       Z    17 15 26
          COB   P       Z    17 12 35.0
                ES      Z       15 31

NOV 05    SBA   EP      ZNE  19 10 34
                EPCP    Z       12 47
                ES      ZNE     17 05
                 SS     NE      19 56
                EL      ZNE     21 00
          KRP   EP      Z    19 14 54.0
                E       Z    15 01
                E       Z       12.5

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 05    19 25 42,4    35.1N  24,9E   33KM  5.2  CRETE
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   PKP     Z    19 46 05.7    156

NOV 05    RAO   P       Z    19 29 39.0
                S       Z       30 04
          CRZ   P       ZE   19 31 05.5
          HTZ   ES      Z    19 32 14.0
          GNZ   S       ZNE  19 32 19.0
          MNG   EP?     Z    19 31 32
                ES      Z       33 14

NOV 05    RAO   P       Z    19 42 57.2
                S       Z       43 11.0
          CRZ   P       ZNE  19 44 53.8
          GNZ   S       ZNE  19 46 24
          MNG   EP?     Z    19 45 23
                ES      Z       47 20

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 05    20 08 03,2    5.4S 146,7E  230KM  5.5  NEW GUINEA
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          CRZ   P       ZNE  20 14 57.8      38
          KRP   IP      ZNE  20 15 31.8J     42
                I       ZNE     33.2
                 PP     Z       16 23.0
                 PCP    Z       17 22.8
                 SCP    Z       20 53.0
                E       Z       30 01
          AFI   P       Z    20 15 33        42 -0,34                      6.1
                PP      ZNE     16 18
                S       NE      21 28
                SCS     ZNE     24 56
          GNZ   IP      Z    20 15 39.6J     43
                I       Z       41.2
                 SCP    Z       20 55.5
          MSZ   P       Z    20 15 44.0      43
                I       Z       46.0
          MNG   IP      Z    20 15 45.9J     44
                I       Z       47.6
                E       Z       30 17.8
                E       Z       26.5
          GNZ   P       ZNE  20 15 46.0      44
                I       ZNE     47.8
                E       ZE      30 17.0
          WEL   P       ZNE  20 15 46.0      44
          MJZ   P       ZNE  20 15 48.0      44
                I       ZNE     49.7
                 PP     Z       16 39.0
                 PCP    Z       17 30.8
                 SCP    ZNE     21 00.8
          CIZ   EP      ZNE  20 16 37.5      30
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        SBA   IP        ZNE 20 19 09,50     73 -0,23                          6,6
              E-PP      ZNE    20 03
              E-SP      ZNE       30

NOV 05  KRP   E(P)      Z   20 30 01
        GNZ   E(P)      ZE  20 30 17,0
        MNG   E(P)      Z   20 30 17,8
              E         Z      26,5

         H  M  S        EPICENTRE    DEPTH  MAG
NOV 05  22 07 02,2      20,1S 168,8E  25KM  5,3  LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        ORZ   EP        ZNE 22 10 34,0      15
        KRP   P         ZNE 22 11 22,8      19 -0,92                          5,2
        AFI   P         Z   22 11 27        20
              SS        ZNE    15 16
              LR        ZE     17
        GNZ   EP        Z   22 11 36,0      20 -0,98                          5,2
        GNZ   P         ZNE 22 11 37,0      20 -0,27                          5,9
        TRZ   P         Z   22 11 43,0      21
        MNG   P         Z   22 11 48,5      21 -0,62                          5,7
        COB   P         Z   22 11 49,5      21
        WEL   EP        Z   22 12 04        22
              S         E   16 20
        MJZ   EP?       Z   22 12 13,0      24
              (-PP)     ZNE    19,0
        MSZ   P         Z   22 12 24,0      25 -0,98                          5,5
        SBA   EP        ZNE 22 16 52        58

NOV 05  KRP   EP        Z   23 10 49,5
        MNG   P         Z   23 11 26,0

NOV 06  KRP   P         Z   01 13 50,0
        MNG   P         Z   01 14 10,5

         H  M  S        EPICENTRE    DEPTH  MAG
NOV 06  07 09 21,3      20,4S 168,2E  46KM  4,8  LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP        Z   07 13 38,0      19
        WTZ   EP        Z   07 13 45,0      19
        GNZ   EP        Z   07 13 53        20
        COB   P         Z   07 14 07,0      21
        MNG   P         Z   07 14 04,3      21
              -SP       Z      15,7
        MJZ   P         ZNE 07 14 42,0      24
        MSZ   P         Z   07 14 48,0      24
        SBA   EP        ZNE 07 19 07,5      58

NOV 06  KRP   P         Z   08 51 22,9         -1,12
        GNZ   P         Z   08 51 35,5
        MNG   P         Z   08 51 43,0
        COB   P         Z   08 51 55,0

         H  M  S        EPICENTRE    DEPTH  MAG
NOV 06  11 39 49,7      36,1N 139,7E  63KM  5,1  HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P         Z   11 52 02,0      81

NOV 06  SBA   EP        ZNE 11 50 38

         H  M  S        EPICENTRE    DEPTH  MAG
NOV 06  17 36 57,6      19,9S 168,3E  45KM  4,8  NEW HEBRIDES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P         Z   17 41 12,0      19
              -SP       Z      24,0
        MNG   P         Z   17 41 39,0      22
              -SP       Z      52,5
        SBA   EP        ZNE 17 46 42        58
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NOV 06  KRP   P        Z   17 32 56.5
        MNG   P        Z   17 53 19.0

NOV 06  AFI   P        ZNE 18 24 59
              S        ZNE    25 23
              T        ZNE    27
        KRP   P        Z   18 29 52.0

NOV 07  KRP   EP       Z   01 34 02.0

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 07  05 35 21.2    28.8S  67.2W 137KM  5.5  ANDES
                                 H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA   IP       ZNE 05 46 12   D    69 =0.21                          6.7
              ES       ZNE    55 10
              EPS      ZNE    46
              ESCS     ZNE    56 05
        MNG   *PP      Z   05 48 44.0      90
        MJZ   P        ZN  05 48 09.7      90 =1.20                          6.0
              *PP      ZN     47.8
              *SP      ZN     49 03.8
        CNZ   P        Z   05 48 10.5      91
              *PP      Z      48.0
        COB   P        Z   05 48 11.8      91
              *PP      Z      49.5
        MSZ   P        Z   05 48 12.8      91
              *PP      Z      51.0
              *SP      Z      49 06.5
        KRP   P        Z   05 48 13.5      91
              *PP      Z      51.0

NOV 07  KRP   P        Z   06 42 46.7
        MNG   P        Z   06 43 08.0

NOV 07  RAO   P        Z   07 03 53.0
              S        Z      04 16

NOV 07  KRP   P        Z   10 32 57.0

NOV 07  KRP   EP       Z   11 38 19.0

NOV 07  RAO   P        Z   12 48 30.0
              S        Z      45

NOV 07  RAO   P        Z   13 03 06.2
              S        Z      22

NOV 07  KRP   EP       ZNE 13 21 36.0
              E        ZNE    49.0
        WTZ   E(P)     Z   13 21 44
        CNZ   EP       Z   13 21 54
              E        Z   22 05
        MNG   P        Z   13 22 04.0        =0.97
              E        Z      15.0
              E        Z      45
              E        Z      57
        COB   EP       Z   13 22 06.0
              E        Z      16
        MJZ   EP       Z   13 22 36
              E        Z      45
        MSZ   EP       Z   13 22 37.5
              E        Z      52

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 07  13 37 19.0    28.4N 140.6E 155KM  4.8  BONIN IS
                                 H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P        Z   13 48 37.3      74
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          (*PP)   Z       49 35,0
     GNZ   P      Z    13 48 41,0      75 =1,20                          5,6
     MNG   P      Z    13 48 49,0      76
           E      Z       49 35

      H  M  S      EPICENTRE    DEPTH  MAG
NOV 07 15 14 43,7  22,0S 170,0E  32KM        LOYALTY IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP  EP       ZNE 15 18 36,0      17
     MNG   P       Z   15 19 04,0      19
     AFI   P       ZNE 15 19 07        19
           ES      NE      22 40
           ELR     ZE      24
     MJZ   P       ZNE 15 19 36,0      22
     MSZ  EP       Z   15 19 47,0      23
     SBA  EP       ZNE 15 24 19        56

NOV 07 KRP  EP       Z   16 31 42
           E         Z       56
     MNG   P       Z   16 32 05,0
     MJZ   P       ZNE 16 32 47,0
     MSZ  EP       Z   16 32 56,0

      H  M  S      EPICENTRE    DEPTH  MAG
NOV 07 18 21 12,2  6,1S 104,7E  91KM  5,3  W. JAVA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   P       Z   18 31 57,0      67
           *PP     Z       32 15,0
     MJZ   P       ZNE 18 32 06,5      69
           PCP     ZNE     24,0
     KRP  EP       Z   18 32 24,0      71
     GNZ   P       Z   18 32 25,0      71
     MNG  EP       Z   18 32 24,0      71
     SBA  EP       ZNE 18 33 03        78

NOV 07 AFI   P       Z   19 40 29
           S         ZNE     41 34
     KRP   P       Z   19 43 10,0
     GNZ   P       Z   19 43 11
     COB   P       Z   19 43 49
     MJZ E(P)      Z   19 44 19

      H  M  S      EPICENTRE    DEPTH  MAG
NOV 07 20 30 07,0  22,0S 169,7E  32KM        LOYALTY IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     KRP   P       Z   20 33 58      17
     MJZ   P       ZNE 20 34 57,0      22
     MSZ  EP       Z   20 35 05        23
     SBA  EP       ZNE 20 39 40        56

NOV 07 RAO   P       Z   21 55 48,5
           S         Z       56 02

NOV 08 RAO  EP       Z   01 34 57
           S         Z       35 13

      H  M  S      EPICENTRE    DEPTH  MAG
NOV 08 12 48 36,9  20,1S 174,1W  33KM  4,6  TONGA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     AFI   P       ZNE 12 50 07         7
           S         ZNE     51 11
           T         ZNE     56 35
     GNZ   P       Z   12 53 08,0      20
     KRP   P       Z   12 53 10,3      20
     COB   P       Z   12 53 51,3      24
     MJZ   (*PP)   ZNE 12 54 34,0      27
     SBA  EP       ZNE 12 58 33        59
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	H	M	S	EPICENTRE		DEPTH	MAG								
NOV 08	14	25	43,3	23,9N	121,6E	27KM	5,5	TAIWAN							
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		(*PP)	Z	14	37	54,0		80								
	MSZ		P	Z	14	37	53,0		80								
	MJZ		EP	ZNE	14	37	57,0		81								
	MNG		EP	Z	14	37	58,0		81								
	GNZ		EP	Z	14	38	00,0		82								

	H	M	S	EPICENTRE		DEPTH	MAG								
NOV 09	02	49	03,5	21,4S	179,1W	542KM	4,7	FIJI REGION							
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P	Z	02	51	07,2		8								
	AFI		P	Z	02	51	28		10								
			S	ZNE		53	20										
	CRZ		P	ZNE	02	52	17,0		15								
	GBZ		P	Z	02	52	23,0		16								
	KRP		P	Z	02	52	37,0		17								
	GNZ		EP	Z	02	52	39		17								
			ES	ZNE		55	22										
	MNG		EP	Z	02	52	59,5		20								
			ES	Z		55	58,0										
	COB		P	Z	02	53	09,0		21								
			ES	Z		56	20										

	H	M	S	EPICENTRE		DEPTH	MAG								
NOV 09	06	48	38,4	59,8S	25,6W	32KM	5,3	SOUTH SANDWICH IS							
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		P	Z	07	00	20,9		75	=1,01							6,1
	COB		P	Z	07	00	36,0		78								
	KRP		P	Z	07	00	51,8		81	=0,92							6,2
			*PP	Z		01	03,5										

	H	M	S	EPICENTRE		DEPTH	MAG								
NOV 09	08	09	05,4	21,1S	179,0W	621KM	4,9	FIJI REGION							
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P	Z	08	11	06,0		8								
	AFI		P	Z	08	11	20		10								
	CRZ		P	ZNE	08	12	18,7		15								
	ONE		P	E	08	12	25,5		16								
	GBZ		P	Z	08	12	23,3		16								
	ECZ		P	Z	08	12	37,6		17								
	WTZ		P	Z	08	12	33,0		17								
	KRP		P	ZNE	08	12	37,0D		17	=0,97							5,3
	GNZ		P	ZNE	08	12	38,0		18								
	MNG		P	Z	08	12	52,9		20								
	WEL		P	Z	08	13	05,0		21								
	COB		P	Z	08	13	08,7		21								
	MJZ		EP	Z	08	13	40,0		24								
	MSZ		EP	Z	08	13	52,0		26								
	MNW		P	Z	08	14	01		27								

	H	M	S	EPICENTRE		DEPTH	MAG								
NOV 09	08	09	44,3	20,9S	179,0W	606KM	5,7	FIJI REGION							
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P	Z	08	11	45,8		8								
			S	Z		13	26										
	AFI		P	ZNE	08	12	00		10								
			S	ZNE		13	50										
	CRZ		IP	ZNE	08	12	58,0JS		15	0,64							6,8
			E	ZNE		13	38,0										
			S	NE		15	36										
	ONE		P	E	08	13	03,0W		16								
			S	E		15	44										
	GBZ		P	Z	08	13	02,8		16								
			E	Z			48,0										
			SCP	Z		19	56,0										

	AUC	P	Z	08	13	11,8	17			
	ECZ	P	Z	08	13	10,0	17			
		SCP	Z		19	59,0				
	WTZ	P	Z	08	13	11,4	17			
		*SP	Z		15	03,3				
		S	Z		16	02				
		SCP	Z		19	58,0				
	KRP	IP	ZNE	08	13	17,1U	18			
		*SP	ZNE		15	04,1				
		S	NE		16	12				
		SCP	Z		19	58,7				
		SCS	N		23	37				
	GNZ	P	ZNE	08	13	17,0	18			
		ISCP	Z		20	01,0				
		SCS	E		23	43,0				
	RAR	IP	ZNE	08	13	19,2U	18	+0,56		5,8
		ES	ZNE		16	10				
	TUA	EP	Z	08	13	19,5	18			
		SCP	Z		20	00,0				
	ONZ	P	Z	08	13	26,0	19			
		SCP	Z		20	00,8				
	TRZ	P	Z	08	13	27,0	19			
		*SP	Z		15	14,0				
		SCP	Z		20	03,5				
	TNZ	P	Z	08	13	31,0	19			
	MNG	P	Z	08	13	37,0	20			
		(*PP)	Z		14	44,0				
		S	Z		16	53				
		ISCP	Z		20	05,4U				
		E	Z		23	42,0				
		ISCS	Z			51,0				
	CAZ	P	Z	08	13	40,0	20			
	WEL	P	ZNE	08	13	44,8	21			
		(*PP)	Z		14	49,5				
		S	ZNE		16	58,0				
		ISCP	ZNE		20	07,2U				
		ISCS	ZNE		23	50,5				
	COB	P	Z	08	13	48,8	21			
	KAI	P	X	08	14	04,0	23			
		SCS	X		23	54				
	CIZ	P	ZNE	08	14	08,5	23			
	GPZ	P	N	08	14	10,0	24			
		S	N		17	42,0				
	MJZ	P	ZNE	08	14	17,7	25			
		I*PP	Z		15	29,7				
		S	NE		17	55,0				
		ISCP	ZNE		20	17,1U				
		SCS	ZNE		24	04				
	OHZ	P	Z	08	14	27,0	26			
	MSZ	P	Z	08	14	32,0	26			
		(*SP)	Z		16	02,2				
		S	Z		18	20				
		SCP	Z		20	22,5				
	ROX	SCP	Z	08	20	23,0	26			
	MNW	P	Z	08	14	40,9	27			
	WPZ	P	Z	08	14	44,0	25			
		SCP	Z		20	26,0				
	SBA	IP	ZNE	08	18	37,5	57	0,21		6,5
		E*PP	ZNE		20	31				
		ES	ZNE		25	54				
		ESCS	ZNE		27	26				
		E*SS	ZNE		29	09				
		EL	ZNE		33	08				

	H	M	S	EPICENTRE		DEPTH	MAG									
NOV 09	11	03	58,3	20,3S	168,3E	10KM	4,9	LOYALTY IS								
						H	M	S	DIR	DIS	LG	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	11	08	31,0		19									

```
        COB    P          Z   11 08 59         21
        MJZ    EP         Z   11 09 24         24

         H  M  S          EPICENTRE    DEPTH   MAG
NOV 09  15 39 41.6     20.1S 169.2E    59KM    5.0  NEW HEBRIDES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P          Z   15 43 58.0         19
        GNZ    P          Z   15 44 12.4         20
        TRZ    EP         Z   15 44 18.5         20
        MNG    P          Z   15 44 24.0         21
               *PP        Z              35.0
        COB    P          Z   15 44 26.0         21
        MJZ    EP         Z   15 44 51           24
        MSZ    P          Z   15 44 59.0         25
        SBA    EP         ZNE 15 49 28.8         58

NOV 09  KRP    P          Z   16 05 57.5
        CNZ    P          Z   16 06 10.0
        GNZ    EP         Z   16 06 11
        TRZ    EP         Z   16 06 16
        MNG    P          Z   16 06 23.0
        COB    P          Z   16 06 26.0
        MJZ    P          Z   16 06 53.0
        MSZ    EP         Z   16 06 57.0

NOV 09  KRP    P          Z   16 07 19.0
        TRZ    EP         Z   16 07 29
        GNZ    EP         Z   16 07 30
        MJZ    P          Z   16 07 52

         H  M  S          EPICENTRE    DEPTH   MAG
NOV 09  16 36 55.2     19.6S 169.3E    25KM    5.6  NEW HEBRIDES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    P          ZE  16 41 17         19
               S          ZNE    44 40
               SS         NE     45 20
               LR         ZE     46 28
        KRP    P          ZNE 16 41 18.2       19
        WTZ    EP         Z   16 41 24         20
        GNZ    P          ZNE 16 41 32.0       20
               *PP        Z              38.0
        TRZ    P          Z   16 41 37.0       21
        MNG    P          Z   16 41 44.7U      22
        COB    P          Z   16 41 46.0       22
        WEL    EP         Z   16 41 44         22
               ES         E      45 50
        MJZ    P          ZNE 16 42 13.0       24
               PCP        Z      45 51.2
        MSZ    P          Z   16 42 20.1       25
        RAR    ES         ZNE 16 48 53         29
        SBA    EP         ZNE 16 46 48.7       58
               ELQ        ZNE 17 01 45
               ELR        ZNE    04 50

         H  M  S          EPICENTRE    DEPTH   MAG
NOV 09  17 52 02.0     22.2S 171.9E   100KM    4.3  LOYALTY IS
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P          ZNE 17 55 38.5       16
        AFI    P          Z   17 56 06         18
               ES         NE  -  59 36
               ESSS       ZE  18 00 32
        MNG    EP         Z   17 56 09         19
        MJZ    P          Z   17 56 44.0       22
        MSZ    P          Z   17 56 55.0       23
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          H  M  S       EPICENTRE    DEPTH  MAG
NOV 09   18 41 14,5    23,9N 121,9E   33KM  5,7  TAIWAN
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
         AFI    P        Z   18 52 55       75
                ES       ZNE 19 02 40
                ES       ZE     03 32
                ESS      ZNE    07 12
                ESSS     ZNE    10 40
                ELQ      NE     13
                ELR      ZE     16
         KRP    EP       ZN  18 53 22,5     80
         MSZ    EP       Z   18 53 23,0     80
         MJZ    EP       ZNE 18 53 27,0     81
                 *PP     Z      36,0
         MNQ    EP       Z   18 53 27,0     81
         GNZ    P        ZNE 18 53 30,5     82
         SBA    EPP      ZNE 18 59 35,5    105
                ESKS     ZNE 19 06 00

NOV 09   AFI    IP       ZNE 20 00 35  U
                S        ZNE    55

NOV 09   AFI    P        ZNE 21 46 44
                S        ZNE    47 51
         CRZ    P        ZNE 21 49 32,0
         WTZ    P        Z   21 49 46,0
         KRP    IP       ZNE 21 49 51,0U       -1,07
         MNQ    EP       Z   21 50 11
         MSZ    P        Z   21 51 11,8

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 10   00 23 42,1    20,9S 178,2W  516KM  4,7  FIJI REGION
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
         AFI    IP       ZNE 00 25 44  D    9
                S        ZNE    27 22
         CRZ    P        ZNE 00 26 59,0     16
         GBZ    P        Z   00 27 05,0     16
         ECZ    P        Z   00 27 11,3     17
         WTZ    P        Z   00 27 14,3     18
         KRP    P        ZNE 00 27 19,7     18 -0,81                      5,7
         CNZ    P        Z   00 27 28,5     19
         TRZ    P        Z   00 27 29,2     19
         TNZ    EP       Z   00 27 35,0     19
         MNQ    P        Z   00 27 38,8     20
                SCP      Z      34 25,0
         WEL    EP       Z   00 27 51,9     21
         MSZ    EP       Z   00 28 37,8     26

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 10   05 22 36,2    62,7S 168,0E   33KM       BALLENY IS
                            H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
         SBA    EP       ZNE 05 26 07       15
                ES       ZNE    29 06
                EL       ZNE    30 00
         MSZ    EP       Z   05 26 47,0     18
         WEL    EP       Z   05 27 03       22
                 S       E      31 36
                 L       ZNE    34
         MNQ    P        Z   05 27 35,8     23
         KRP    EP       Z   05 28 02,0     25
                (*SP)    Z      28,0

NOV 10   KRP    P        Z   06 33 46,5
         MNQ    P        Z   06 34 06,9
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		H	M	S		EPICENTRE		DEPTH	MAG									
NOV 10		07	40	55.8		44.5N 147.4E		118KM	5.6	KURIL IS								
							H	M	S	DIR	DIS	LG$_{wA}$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P		Z		07	53	29.0		86								
	MNG		P		Z		07	53	36.5		88								
	MSZ		EP		Z		07	53	49		91								
NOV 10	MSZ		EP		Z		10	35	07.0										
NOV 10	WTZ		P		Z		10	53	26.0										
			ES		Z			55	56										
	KRP		P		Z		10	53	30.7										
	GNZ		P		ZNE		10	53	31										
			S		ZNE			56	03										
	MNG		P		Z		10	53	53.0										
			ES		Z			56	50										
NOV 10	KRP		EP		Z		11	01	50.0										
	MNG		EP		Z		11	02	19.0										
	MSZ		EP		Z		11	03	04										
NOV 10	SBA		EP		ZNE		11	38	02										
			ES		ZNE			41	07										
			EL		ZNE			42	08										
	MSZ		P		Z		11	38	40.7										
	MNG	E(P)			Z		11	39	43.0										
	KRP		P		Z		11	39	55.0										
NOV 10	KRP		P		Z		12	05	16.0										
	CNZ		P		Z		12	05	24.0										
	MNG		P		Z		12	05	41.8										
NOV 10	KRP		P		Z		17	12	03.0										
	MNG		EP		Z		17	12	15.0										
NOV 10	RAO		P		Z		20	53	47.0										
			S		Z			54	22										
	GBZ		P		Z		20	54	25.0										
	WTZ		P		Z		20	54	29.0										
			S		Z			55	41.0										
	GNZ		P		ZNE		20	54	31.0										
			S		ZNE			55	43.0										
	KRP		P		ZNE		20	54	38.5										
			S		NE			56	09										
	CNZ		EP		Z		20	54	51.0										
	MNG		EP		Z		20	55	03.9										
			S		Z			56	42										
	WEL		S		ZNE		20	57	03										
	COB		ES		Z		20	57	21										
	MSZ		EP		Z		20	56	36.5										
NOV 10	AFI		IP		ZNE		21	20	47.5										
			S		ZNE			21	17										
	KRP		P		Z		21	25	10.0										
	MNG		P		Z		21	25	30.0										
	COB		EP		Z		21	25	43										
NOV 10	KRP		P		Z		22	06	57.0										
	MNG		P		Z		22	07	17.8										
			(PP)		Z				24.0										
NOV 10	RAO		EP		Z		22	42	52.0										
			S		Z			43	05										
NOV 10	KRP		P		Z		23	20	15.7										
	MNG		EP		Z		23	20	35.5										

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NOV 10  KRP    P        Z   23 34 19.5

NOV 10  RAO    P        Z   23 48 57.5
               S        Z      49 06.0

NOV 11  AFI    P        Z   04 48 32
               S        ZNE    53

NOV 11  KRP    P        Z   07 33 35.7
        MNG    EP       Z   07 33 57

         H  M  S        EPICENTRE     DEPTH  MAG
NOV 11  10 54 59.9     13.7N 144.8E  141KM  5.0  MARIANA IS
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z   11 04 47.0      59
        COB    P        Z   11 04 55.9      60
        MNG    P        Z   11 05 00.3      61

         H  M  S        EPICENTRE     DEPTH  MAG
NOV 11  11 08 21.2     4.3S 143.3E   129KM        NEW GUINEA
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        KRP E(*PP)     Z   11 16 51          45
        MNG    EP       Z   11 16 36.0      46

NOV 11  KRP    EP       Z   11 17 19
        MNG    EP       Z   11 17 47.0
        COB    P        Z   11 17 49.0

NOV 11  CRZ    P        ZNE 12 08 34.5
        WTZ    P        Z   12 08 52.0
        KRP    P        ZNE 12 08 54.6
        CNZ    EP       Z   12 09 07.5
        MNG    EP       Z   12 09 17.5
               S        Z      11 57
        COB    P        Z   12 09 31.2
               ES       Z      12 23
        MSZ    P        Z   12 10 19.0

NOV 12  SBA    EP       ZNE 02 17 00
               ES       ZNE    02

         H  M  S        EPICENTRE     DEPTH  MAG
NOV 12  02 25 57.0     12.3N 144.1E   37KM  5.3  CAROLINE IS
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        AFI    ES       ZNE 02 42 20          51
               ESSS     E      47 00
               EL       ZN     49
        KRP    P        Z   02 35 47.5      58
        CNZ    P        Z   02 35 55.0      59
        MNG    P        Z   02 36 00.8      60

         H  M  S        EPICENTRE     DEPTH  MAG
NOV 12  05 37 24.1     22.5S 171.7E   40KM  4.7  LOYALTY IS
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        CRZ    P        ZNE 05 40 17.0      12
        KRP    P        ZNE 05 41 09.3      16
        AFI    P        Z   05 41 30          18
               ES       ZNE    44 38
               ESS      ZNE    45 12
               ELR      ZE     42 20
        MNG    P        Z   05 41 36.7      18
        COB    P        Z   05 41 41.0      19
        WEL    EP       ZNE 05 41 43          19
               S        ZNE    45 18
               LR       ZNE    46
        SBA    EP       ZNE 05 46 55.2      55
               EL       ZNE 06 04 00
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	H M S	EPICENTRE	DEPTH	MAG	
NOV 12	06 00 45.1	33.4N 140.8E	59KM	4.7	S. OF HONSHU

			H M S	DIR	DIS	LG$_{max}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z 06 12 40.0		78	-1.39							5.6

	H M S	EPICENTRE	DEPTH	MAG	
NOV 12	08 36 56.9	20.4S 173.6W	33KM	4.9	TONGA

			H M S	DIR	DIS	LG$_{max}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z 08 38 30		7								
		S	ZNE 39 41										
		T	ZNE 43 10										
	HTZ	EP	Z 08 41 22		19								
	KRP	EP	Z 08 41 28.0		20								
	MNG	P	Z 08 41 50.8		22								
	COB	EP	Z 08 42 12.8		24								
	SBA	EP	ZNE 08 46 49		58								
NOV 12	KRP	EP	Z 08 55 30.0										
	HTZ	EP	Z 08 55 32										
	COB	EP	Z 08 56 05										
NOV 12	KRP	EP	Z 11 39 30.0										

	H M S	EPICENTRE	DEPTH	MAG	
NOV 12	11 53 48.7	21.4S 174.4W	33KM	4.9	TONGA

			H M S	DIR	DIS	LG$_{max}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z 11 55 37		8								
		S	ZNE 56 58										
		T	ZNE 12 03 27										
	RAO	ES	Z 11 57 19.0		8								
	RAR	EP	ZNE 11 56 51		14								
	KRP	P	ZNE 11 58 06.3		19								
	MNG	P	Z 11 58 28.4		21								
	COB	EP	Z 11 58 46		22								
	MJZ	EP	ZNE 11 59 20.5		26								
	SBA	EP	ZNE 12 03 35		57								
NOV 12	KRP	P	Z 14 36 30.5										
	HTZ	EP	Z 14 36 32										
	MNG	EP	Z 14 36 48										
NOV 12	KRP	EP	Z 15 50 42.5										
	MNG	P	Z 15 51 08.0										
		(*PP)	Z 14.0										
NOV 12	HTZ	P	Z 17 25 55.0										
	KRP	EP	Z 17 26 04.5										
		(*PP)	Z 11.3										
	CNZ	P	Z 17 26 18.0										
		(*PP)	Z 27.0										
NOV 12	KRP	EP	Z 17 37 09.5										
	MNG	P	Z 17 37 35.0										
		(*PP)	Z 42.0										

	H M S	EPICENTRE	DEPTH	MAG	
NOV 12	17 54 16.3	22.6S 171.8E	33KM	5.7	LOYALTY IS

			H M S	DIR	DIS	LG$_{max}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE 17 58 05.0		16								
	MNG	L	Z 17 58 33.0		18								
		(*PP)	Z 38.0										
	COB	P	Z 17 58 37.0		18								
	MJZ	(P)	ZNE 17 59 06.0		21								
	SBA	EP	ZNE 18 03 49.3		55								

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          H  M  S       EPICENTRE    DEPTH  MAG
NOV 12   17 56 44,4    38,4N  73,3E   33KM  6,0  E, TADZHIKISTAN
                                 H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
         AFI   EPKKP          Z   18 26 16        118
               E(SSP)         ZNE     33 16
                ESSS          ZNE     37 12
                ELG           NE      45
                ELR           ZN      48
         COB    PKP           Z   18 15 31.0      120
         KRP    PKP           ZE  18 15 33.9      121
                PKKP          Z       25 39.0
         CNZ    PKP           Z   18 15 33.0      121
                PKKP          Z       25 39.0
         WTZ    PKP           Z   18 15 34.0      122
         MNG    PKP           Z   18 15 35.6      122
         SBA    EPKP          ZNE 18 15 45.5      128
                E             ZNE     16 19
                E             ZNE     18 14
                E             ZNE     56
                ESS           ZNE     35 10
                ELG           ZNE     51 10
                ELR           ZNE     57 30

NOV 12   SBA   EP            ZNE 18 02 40.2

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 13   04 43 49,2    15,6N  95,0W   33KM  5,5  CENTRAL AMERICA
                                 H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
         RAR   EP            ZNE 04 55 22        73
                ES            ZNE 05 04 46
                ESCS          ZNE     05 32
                ESS           ZNE     09 20
                ELG           ZNE     14 50
                ELR           ZNE     17 00
         AFI    P             Z   04 56 09        81
                ES            ZNE 05 06 15
                ESS           ZNE     11 40
                ESES          ZE      15 00
                 LG           NE      18
                 LR           ZE      21
         MNG    (PP)          Z   04 57 41.8      100
         WEL    EP            Z   04 57 36        100
                 PP           Z   05 01 41
                 SCS          ZNE     08 18
                 SP           Z       10 34
                 PS           E       40
                 SS           E       15 17
                 SSS                  19 20
                 LR           ZE      29
         SBA    EP            ZNE 04 58 13.0      107
                EPP           ZNE 05 02 27.5
                ESKS          ZNE     08 44
                ES            ZNE     10 18
                EPS           ZNE     11 42
                EPPS          ZNE     12 36
                ESS           ZNE     17 43
                ESSS          ZNE     21 33
                ELG           ZNE     28 30
                ELR           ZNE     33 23

NOV 13   CRZ   EP            Z   04 54 08
         KRP    P             Z   04 54 31.5
         MNG    P             Z   04 54 53.0

NOV 13   AFI    P            ZNE 05 39 50
                S             ZNE     40 31
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NOV 13	AFI	(P)	Z	05	56	10															
		S	ZNE		57	30															
	MNG	P	Z	05	59	07.0															
	H	M	S	EPICENTRE			DEPTH	MAG													
NOV 13	06	36	34.2	21.9S		179.4W	610KM	5.1	FIJI REGION												
					H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	RAO	P	Z	06	38	28.2U			7												
		ES	Z		39	56															
	AFI	P	Z	06	39	00			11												
		S	Z		40	54															
	CRZ	P	Z	06	39	39.0			14												
	WTZ	EP	Z	06	39	55			16												
	KRP	P	Z	06	40	00.0			17												
	MNG	EP	Z	06	40	20.0			19												
		ES	Z		43	23															
		SCP	Z		46	55.6															
	SBA	EP	Z	06	45	22.6			56												
	H	M	S	EPICENTRE			DEPTH	MAG													
NOV 13	08	11	48.8	27.9N		140.0E	372KM	5.9	BONIN IS												
					H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	KRP	P	Z	08	22	43.2			73												
		*PP	Z		23	39.0															
	MNG	EP	Z	08	22	55			76												
		*PP	Z		24	09.0															
	MJZ	P	ZNE	08	23	01.0		77	-1.23												5.6
	SBA	EPP	ZNE	08	29	31		107													
NOV 13	KRP	P	Z	08	41	05															
		E	Z			12															
	MNG	P	Z	08	41	39.4															
NOV 13	RAO	P	Z	09	19	50.6															
		S	Z		20	06															
	CRZ	P	ZNE	09	21	39.0															
	MNG	(S)	Z	09	24	05.0															
	H	M	S	EPICENTRE			DEPTH	MAG													
NOV 13	09	25	51.2	53.8N		169.0W	129KM	5.1	ALEUTIAN IS												
					H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	KRP	EP	Z	09	38	46.0			92												
		*PP	Z		39	19															
NOV 13	WTZ	P	Z	12	41	00.1															
	KRP	P	Z	12	41	03.0															
		(*PP)	Z			11.0															
	H	M	S	EPICENTRE			DEPTH	MAG													
NOV 13	23	06	36.4	21.2S		68.5W	131KM	4.8	CHILE												
					H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SBA	EP	ZNE	23	18	12			76												
	H	M	S	EPICENTRE			DEPTH	MAG													
NOV 13	23	34	12.8	12.5N		95.2E	33KM	5.4	ANDAMAN IS												
					H	M	S	DIR	DIS	LG$_w$A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	MSZ	(*PP)	Z	23	47	02.3			87												
	MJZ	P	ZNE	23	47	02.0			88												
		E	ZNE			08.0															
	KRP	P	Z	23	47	13.0			90												
NOV 14	AFI	P	Z	00	01	12															
		S	ZNE		02	45															
		T	ZNE		10																
	RAR	EP	ZNE	00	02	15.4															
	KRP	EP	Z	00	03	04															
	MNG	P	Z	00	03	34.0															

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                ES      Z       06 55

NOV 14  MNQ     P       Z    01 27 33,0

NOV 14  KRP     EP      Z    11 46 36,0

NOV 14  KRP     EP      Z    13 15 47

NOV 14  AFI     P       Z    15 15 06
                S       ZNE     24

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 14    16 25 16,1    14,8S 167,4E 123KM  4,5  NEW HEBRIDES
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          CRZ   P       ZNE 16 29 44,1      20
          KRP   P       ZNE 16 30 23,1      24 -0,95                          5,5
          WTZ   EP      Z   16 30 27,0      25
          MJZ   P       ZNE 16 31 08,5      29
          MSZ   P       Z   16 31 13,0      30
          SBA   IP      ZNE 16 35 31        63

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 14    22 27 04,9    1,1S 126,9E  45KM   5,4  MOLUCCA SEA
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MJZ   P       ZNE 22 36 53,2      58
                (*PP)   Z       37 09,8
                E       Z       21,5
          KRP   P       Z   22 36 54,0      58
          SBA   EP      ZNE 22 39 08        80
                ES      ZNE     49 12

NOV 15    KRP   P       Z    00 03 18,6

NOV 15    RAO   P       Z    00 15 00,1
                ES      Z       34
          WTZ   EP      Z    00 16 06
                ES      Z       17 26
          MNQ   EP      Z    00 16 37,0
                S       Z       18 22
          WEL   S       ZNE  00 18 47
          COB   EP      Z    00 17 10
                S       Z       19 04
          MJZ   EP      Z    00 17 47
                ES      ZNE     20 14

NOV 15    SBA   EP      ZNE  03 46 01,5
                ES      ZNE     06

NOV 15    AFI   P       ZNE  05 24 23
                S       ZNE     26 10
          RAO   ES      Z    05 24 40
          WTZ   P       Z    05 25 28,0
                S       Z       28 12
          KRP   P       Z    05 25 34,0          -1,17

NOV 15    RAO   P       Z    05 45 19,0
                ES      Z       46 29
          CRZ   P       Z    05 46 09,0

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 15    08 24 06,0    7,4S 130,5E  33KM   5,2  BANDA SEA
                                H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MJZ   EP      Z   08 33 15          50
          SBA   EP      ZNE 08 35 33          73

NOV 15    RAO   P       Z    12 46 04,5
                S       Z       20
```

	H	M	S	EPICENTRE		DEPTH	MAG	
NOV 15	13	04	18,0	4,2S	154,4E	483KM	4,7	SOLOMON IS

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	ZNE	13	11	03,7		39							
		PCP	Z		13	03,8									
		SCP	Z		16	11,0									
	WTZ	IP	Z	13	11	09,6D		39							
	COB	P	Z	13	11	15,8		40	=0,66						5,8
	MNG	IP	Z	13	11	20,7D		41							
		*PP	Z		12	48									
		PCP	Z		13	09,0									
		SCP	Z		16	17,9J									
	MSZ	P	Z	13	11	29,8		42							
	MJZ	P	ZNE	13	11	30,0		42	=1,09						5,4
		PCP	Z		13	14,0									
	SBA	IP	ZNE	13	15	06,2		74							

	H	M	S	EPICENTRE		DEPTH	MAG	
NOV 15	16	19	31,1	49,0S	123,6E	33KM	5,4	S. OF AUSTRALIA

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	EP	Z	16	25	42		30							
		*PP	Z			50									
	MJZ	P	ZNE	16	25	58,0		32	=0,57						6,3
		*PP	ZNE		26	06,0									
	SBA	EP	ZNE	16	26	04		33							
		ES	ZNE		31	31									
		ELR	ZNE		35	00									
	WEL	P	Z	16	26	34,0		36							
		S	NE		32	26									
		LQ	N		35										
		LR	ZNE		36										
	MNG	P	Z	16	26	39,8		37	=0,80						6,0
		*PP	Z			47,3									
		PCP	Z		28	59,0									
	KRP	P		16	26	52,8		39	=0,52						6,3
		*PP			27	00,9									
NOV 15	MNG	P	Z	23	55	02,1									
		ES	Z		57	40									

	H	M	S	EPICENTRE		DEPTH	MAG	
NOV 16	02	26	43,3	18,2S	179,4W	615KM	5,2	FIJI REGION

			H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	ZNE	02	28	27		8							
		S	ZNE		29	58									
	CRZ	P	ZNE	02	30	16,0		18	=0,25						6,1
	ONE	P	E	02	30	23,5		18							
	GBZ	P	Z	02	30	21,3		19							
	WTZ	P	Z	02	30	31,6		20							
	KRP	P	ZNE	02	30	36,0		20							
		E	Z			43,5									
	TNZ	P	Z	02	30	50,0		22							
	MNG	P	Z	02	30	56,0		23							
	WEL	EP	Z	02	31	03,0		24							
	COB	P	Z	02	31	07,1		24							
	MJZ	P	Z	02	31	35,0		27							
	MSZ	P	Z	02	31	48,2		28							
	MNW	EP	Z	02	31	59,4		30							
	SBA	IP	ZNE	02	35	49,5		60							
NOV 16	CRZ	P	ZNE	05	20	44,0									
	GBZ	P	Z	05	20	50,3									
	WTZ	P	Z	05	21	00,3									
	KRP	P	Z	05	21	05,0									
	MNG	P	Z	05	21	26,0									

	H	M	S	EPICENTRE		DEPTH	MAG									
NOV 16	12	43	05,5	35,7N	69,9E	124KM	5,6	HINDU KUSH								
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ		E*PPKP	Z	13	02	13,0		119							
	MJZ		*PPKP	Z	13	02	19,8		121							
	AFI		PKP	Z	13	01	41		121							
	KRP		PKP	Z	13	01	46,3		122							
			(*PPKP)	Z		02	18,0									
	SBA		EPKP	ZNE	13	01	53		126							
			E*PPKP	ZNE		02	25,4									
NOV 16	KRP		P	Z	15	09	16,9									
	MNG		P	Z	15	09	38,2									
NOV 16	KRP		EP	Z	16	25	46,0									
	MJZ		EP?	Z	16	26	50,0									
NOV 16	RAO		P	Z	23	30	25,0									
			S	Z			43									
NOV 17	RAO		EP	Z	00	04	43,0									
			ES	Z		05	02									
	H	M	S	EPICENTRE		DEPTH	MAG		LOYALTY IS							
NOV 17	00	18	54,1	22,7S	171,4E	37KM										
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		EP	Z	00	20	41		8							
	KRP		EP	Z	00	22	25,3		16							
	COB		EP	Z	00	23	11,0		18							
	MJZ		EP	Z	00	23	45,0		21							
	SBA		EP	ZNE	00	28	26		55							
	H	M	S	EPICENTRE		DEPTH	MAG		LOYALTY IS							
NOV 17	00	25	04,8	22,6S	171,3E	29KM	5,0									
					H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CRZ		P	ZNE	00	27	55,5		12							
			*PP	Z		28	07,5									
	KRP		P	ZNE	00	28	50,6		16							
			*PP	ZE		29	02,0									
	CNZ		P	Z	00	29	05,8		17							
	MNG		P	Z	00	29	18,6		18							
	COB		P	Z	00	29	22,0		18							
	MJZ		P	Z	00	29	54,0		21	=1,00						5,3
	MSZ		P	Z	00	30	05,0		22							
	SBA		EP	ZNE	00	34	37,7		55							
NOV 17	NDF		EP	Z	06	44	51,5			=0,66						
	AFI		P	Z	06	45	20									
			S	ZNE		46	54									
	CRZ		EP	ZNE	06	46	46,0									
	WTZ		P	Z	06	47	00,0									
	KRP		P	ZNE	06	47	05,0									
	CNZ		P	Z	06	47	15,0									
	MNG		P	Z	06	47	22,0									
	COB		P	Z	06	47	40,0									
NOV 17	RAO		P	Z	07	03	27,0									
			S	Z			39									
NOV 17	AFI		P	Z	07	15	23									
			S	ZNE			47									
			T	ZNE		17	37									
	KRP		EP	Z	07	20	06									
	MNG		EP	Z	07	20	40,8									
NOV 17	RAO		P	Z	12	24	27,7									
			S	Z		25	08									

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        WTZ   P       Z   12 25 39.0
              ES      Z      27 00
        KRP   EP      Z   12 25 43
        MNG   P       Z   12 26 05.8
              ES      Z      28 00
        WEL   ES      ZNE 12 28 18

NOV 17  SBA   EP      ZNE 16 12 42
              ES      ZNE        45

NOV 17  RAO   P       Z   16 35 05.2
              S       Z          13

NOV 17  RAO   P       Z   18 44 38.5
              S       Z          58
        WTZ   P       Z   18 46 03.2
              S       Z      47 31
        CRZ   P       ZNE 18 46 15.0
        KRP   EP      ZNE 18 46 16.8
        TRZ   S       Z   18 48 05
        MNG   EP      Z   18 46 39.0
              ES      Z      48 33
        WEL   S       ZNE 18 48 52.5
        COB   ES      Z   18 49 12

NOV 17  RAO   P       Z   18 52 02.7
              ES      Z          24
        WTZ   P       Z   18 53 25.0
              ES      Z      54 37
        CRZ   P       ZNE 18 53 37.6
        MNG   EP      Z   18 54 02.0
              ES      Z      55 57
        WEL   ES      ZNE 18 56 16

         H  M   S      EPICENTRE    DEPTH  MAG
NOV 18  02 44 55.1   16.2S 174.3W  180KM  4.7  TONGA
                        H  M   S  DIR DIS LQ,A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP      ZNE 02 45 41.1      3
              S       ZNE    46 16
        KRP   P       Z   02 49 50.1      23
        MNG   P       Z   02 50 10.2      26
        COB   P       Z   02 50 23.3      27

NOV 18  RAO   P       Z   03 00 56.2
              S       Z      01 17
        MNG   EP      Z   03 03 44
              ES      Z      06 07

NOV 18  RAO   P       Z   08 20 24.0
              S       Z          42

NOV 18  AFI   P       ZNE 15 05 11
              S       ZNE        29

NOV 18  RAO   P       Z   15 20 41.0
              S       Z          58
        MNG   ES      Z   15 24 55

         H  M   S      EPICENTRE    DEPTH  MAG
NOV 18  16 03 37.8   5.7S 147.9E  157KM      NEW GUINEA
                        H  M   S  DIR DIS LQ,A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   16 11 06.0      41 -1.09                      5.5
        COB   P       Z   16 11 13.9      42
        MNG   P       Z   16 11 20.2      43 -1.21                      5.4
        MJZ   P       ZNE 16 11 24.0      43
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          H  M  S       EPICENTRE     DEPTH  MAG
NOV 18  17 22 07,1    20,2S 169,0E    50KM   4,3  NEW HEBRIDES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNQ   P       Z   17 26 49,8      21
          MSZ   EP      Z   17 27 25,5      24
          SBA   EP      ZNE 17 31 55        58

NOV 18    NDF   EP      Z   17 43 10,5

          H  M  S       EPICENTRE     DEPTH  MAG
NOV 18  17 47 56,2    22,7S 171,2E    17KM         LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP?     Z   17 50 02,5      8
                E       Z         06,5
          KRP   P       ZNE 17 51 43,3      16
          MNQ   P       Z   17 52 10,5      18
          MJZ   P       ZNE 17 52 45,6      21 -0,70                       5,6
          MSZ   EP      Z   17 52 55,0      22
          SBA   EP      ZNE 17 57 30        55

NOV 18    AFI   P       ZNE 22 07 31
                S       ZNE       52

NOV 19    RAO   P       Z   02 50 30,2
                S       Z         47

NOV 19    WTZ   P       Z   05 14 52,0
                S       Z      16 13
          GNZ   P       ZNE 05 14 57,8
                S       ZE     16 22
          KRP   P       Z   05 14 59,0
          TRZ   P       Z   05 15 08,0
                S       Z      16 43,7
          MNQ   P       Z   05 15 21,0
                ES      Z      17 03

          H  M  S       EPICENTRE     DEPTH  MAG
NOV 19  06 47 06,0    22,4S 171,4E   130KM   4,7  LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P       Z   06 48 51,6D     7
          CRZ   P       Z   06 49 57,2      12
          KRP   P       ZNE 06 50 43,9      16 -0,76                       5,4
          GNZ   P       ZE  06 50 59,6      17 -0,61                       5,6
          MNQ   EIP     Z   06 51 13,3D     18
          COB   P       Z   06 51 17,6      19
          WEL   EP      Z   06 51 22,2      19
          MJZ   P       ZNE 06 51 47,4      22 -0,71                       5,6
          MSZ   P       Z   06 51 56,0      22
          SBA   IP      ZNE 06 56 29,5      56

          H  M  S       EPICENTRE     DEPTH  MAG
NOV 19  08 18 21,5     5,8N 125,7E   144KM   4,9  MINDANAO
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P       Z   08 28 35,6      63
                *PP     Z         58,0
          MJZ   P       ZNE 08 28 41,3      64
          MNQ   EP      Z   08 28 48,0      65

NOV 19    AFI   P       Z   10 15 30
                S       ZNE    16 14

          H  M  S       EPICENTRE     DEPTH  MAG
NOV 19  10 37 31,3    30,7S 178,2W    81KM   4,3  KERMADEC IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   P       Z   10 37 48,0      1
                E       Z         52
                I       Z         57,8
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                S       Z       38 01
          ECZ   EP      Z    10 39 18.0       7
          WTZ   EP      Z    10 39 29.0       8
                ES      Z       40 59
          GNZ   EP      Z    10 39 28.5       9
                S       ZE      41 05.0
          CRZ   P       ZNE 10 39 38.7        9
          KRP   EP      ZNE 10 39 38.0        9
          TRZ   EP      Z    10 39 49         10
                ES      Z       41 33
          MNG   EP      Z    10 40 03         11
                S       Z       42 04
          WEL   S       ZNE 10 42 23.0        12
          COB   ES      Z    10 42 41         13
          CIZ   EP      ZNE 10 40 44          13
                ES      ZNE     42 49
          MJZ   P       ZNE 10 41 13.0        16
                S       ZNE     43 54
          MSZ   P       Z    10 41 30.0       18
                ES      Z       44 35
          MNW   EP      Z    10 41 41.0       19
          SBA   EP      ZNE 10 46 04          48

NOV 19    KRP   P       Z    11 17 22.0

NOV 19    KRP   P       Z    15 13 49.0
          MNG   EP      Z    15 14 09.0
                ES      Z       17 35

NOV 19    AFI   (P)     Z    20 01 22
                (S)     ZNE     02 48
          KRP   P       Z    20 03 23.5
          MNG   EP      Z    20 03 42.5

           H  M  S      EPICENTRE    DEPTH  MAG
NOV 19    20 10 52.3   80.4N   2.9W  33KM   5.4  N. OF SPITSBERGEN
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MJZ   EPKP    Z    20 30 13.0     143
          MSZ   EPKP    Z    20 30 23.0     144
          MNW   PKP     Z    20 30 36.0     145

           H  M  S      EPICENTRE    DEPTH  MAG
NOV 19    20 35 19.4    5.4S 102.4E  33KM   5.2  S. SUMATRA
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   EP      Z    20 46 24.0       69
          MJZ   EP      Z    20 46 34         71
          MNG   EP      Z    20 46 54.0       74

NOV 19    KRP   EP      Z    20 56 06
          MSZ E(P)      Z    20 56 07
          MNG   P       Z    20 56 17.2

           H  M  S      EPICENTRE    DEPTH  MAG
NOV 19    23 31 50.7   20.7S  68.9W 100KM   4.6  CHILE
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA   EP      ZNE 23 43 33.5       77

NOV 20    RAO   IP      Z    03 07 18.6U
                S       Z       39
          WTZ   P       Z    03 09 02.0
          KRP   EP      Z    03 09 11.0
          MNG   P       Z    03 09 34.7
                S       Z       11 46
          SBA   EP      ZNE 03 15 20.5
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	H M S	EPICENTRE	DEPTH	MAG
NOV 20	09 11 43.4	16.9N 145.7E	133KM	5.4 MARIANA IS

			H M S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG
	KRP	P	ZE 09 21 46.5		61				
		*PP	Z 22 20						
	COB	P	Z 09 21 57.0		63				
	MNG	P	Z 09 22 00.0		64				
		E	Z 25.8						
	MSZ	P	Z 09 22 07.2		65				
	MJZ	P	Z 09 22 08.7		65				
		PCP	Z 38.8						
	MNW	P	Z 09 22 12.0		65				
NOV 20	GNZ	P	Z 09 49 16.0						
		S	ZNE 50 42.5						
	KRP	P	Z 09 49 21.0						
	MNG	EP	Z 09 49 44.0						
		I	Z 48.0						
		S	Z 51 38.0						

	H M S	EPICENTRE	DEPTH	MAG
NOV 20	13 06 47.5	24.7S 177.4W	152KM	5.2 S. OF FIJI

			H M S	DIR DIS	LG A/T	AZ TZ	AN TN	AE TE	MAG
	RAO	IP	Z 13 07 56.9U		5				
		S	Z 08 55.0						
		ET	Z 12 90						
	NDF	P	Z 13 08 53.7		8				
	AFI	P	ZNE 13 09 26		12				
		S	ZNE 11 24						
	GRZ	P	ZNE 13 09 52.0		13				
	ONE	P	E 13 09 57.5		13				
		E	E 10 17.4						
		ES	E 12 26						
	WTZ	P	Z 13 10 03.1		14				
		S	Z 12 27						
	GNZ	P	ZNE 13 10 06.0		14				
		S	ZNE 12 30						
	KRP	EP	ZNE 13 10 08.0		14				
		E	ZNE 10.3						
	TRZ	EP	Z 13 10 18.0		16				
		ES	Z 12 59						
	CNZ	P	Z 13 10 18.9		16				
		S	Z 13 10						
	RAR	EP	ZNE 13 10 29.8		17				
		ET	ZNE 25 30						
	MNG	EP	Z 13 10 29.6		17				
		I	Z 32.9						
		E	Z 45.0						
		S	Z 13 29.5						
		SCP	Z 18 36.0						
	WEL	EP	Z 13 10 39.0		18				
		E	ZNE 49.6						
		S	ZNE 13 46						
	COB	EP	Z 13 10 49.0		18				
		(*SP)	Z 11 22						
		S	Z 14 00.0						
	CIZ	P	ZNE 13 11 03.0		19				
		S	ZNE 14 28.0						
	KAI	EP	X 13 11 13.0		20				
		ES	X 14 35.0						
	GPZ	EP	N 13 11 16.0		21				
		S	N 14 44.0						
	MJZ	EP	Z 13 11 22.9		22				
		E	ZNE 26						
		(*SP)	ZNE 12 01.5						
		S	ZNE 15 09						
	OMZ	EP	Z 13 11 34.0		22				

		ES	Z		15	29											
	MSZ	P	Z	13	11	41.6		23									
		I(*SP)	Z		12	17.3											
		S	Z		15	36.0											
	MNW	EP	Z	13	11	50.0		24	-0.29								6.2
		I	Z		12	03.9											
		ES	Z		15	55											
	WPZ	P	Z	13	11	53.5		25									
	SBA	IP	ZNE	13	15	57	U	54	-0.03								6.9

	H	M	S	EPICENTRE		DEPTH	MAG										
NOV 20	13	54	53.4	4.6S	154.2E	375KM	4.6	SOLOMON IS									
				H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MNG	EP	Z	14	02	00.0		41									
	MSZ	P	Z	14	02	10.0		42									

	H	M	S	EPICENTRE		DEPTH	MAG										
NOV 20	14	21	19.4	60.9S	22.4W	33KM	5.6	SOUTH SANDWICH IS									
				H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	14	29	01		41									
		EPCP	ZNE		30	45											
		ES	ZNE		35	22											
		ESS	ZNE		38	00											
	MJZ	P	Z	14	32	55.2		75									
	COB	EP	Z	14	33	09.0		78									
	KRP	P	ZNE	14	33	24.9		80									
		*PP	Z			36.8											

	H	M	S	EPICENTRE		DEPTH	MAG										
NOV 20	21	10	59.4	30.5S	72.0W	47KM	4.9	CHILE									
				H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	21	21	47		67									

	H	M	S	EPICENTRE		DEPTH	MAG										
NOV 21	01	23	46.6	17.6S	179.0W	563KM	5.1	FIJI REGION									
				H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG	
	NDF	IP	Z	01	25	06.8D		3									
		I	Z			15.0											
	RAO	P	Z	01	26	18.0		12									
	CRZ	P	ZNE	01	27	29.1		18	0.08								6.6
	RAR	EP	ZNE	01	27	26		18									
	ONE	P	E	01	27	36.0		19									
		S	E		30	49											
	GBZ	P	Z	01	27	35.1		19									
	WTZ	P	Z	01	27	45.3		21									
		*PP	Z		29	03.5											
		S	Z		31	04											
	KRP	P	ZNE	01	27	49.8		21									
		*PP	ZNE		29	08.0											
		S	NE		31	12											
	TNZ	EP	Z	01	28	03.7		22									
	MNG	EP	Z	01	28	08.8		23									
		*PP	Z		29	36											
	COB	P	Z	01	28	20.8		24									
		S	Z		32	01											
	GPZ	P	N	01	28	42.9		27									
	MJZ	EP	ZNE	01	28	49.0		28	-0.98								5.5
		S	ZNE		32	56											
	MSZ	P	Z	01	29	02.8		29	-1.03								5.5
	MNW	P	Z	01	29	11.9		30									
		(*SP)	Z		30	49.0											
	WPZ	P	Z	01	29	18.0		31									
	SBA	EP	ZNE	01	33	05.5		61									
		E*PP	ZNE		34	54.8											

```
          H  M  S       EPICENTRE    DEPTH  MAG
NOV 21    02 47 14.2    23.8N 121.6E  14KM  5.7  TAIWAN
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          NDF  EP        Z   02 58 20       68
          AFI   P        Z   02 58 59       75
                ES       E   03 08 40
                ES       ZN      09 16
                ESS      ZN      13 40
                ELR      ZNE     22
          KRP   P        Z   02 59 22.9      80
          MSZ  EP        Z   02 59 26.0      80
                *PP      Z       32.3
          MJZ   P        Z   02 59 30.1      81
          MNQ   P        Z   02 59 29.3      81
                *PP      Z       36.0

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 21    03 59 08.5    6.5S 154.3E   34KM  5.4  SOLOMON IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   P        Z   04 05 50       34
                S        ZNE     11 36
                SS       E       13 46
                (SSS)    N       14 00
                (LQ)     E       15
                LR       ZE      17
          KRP  EP        ZNE 04 06 15.2      37
               EPCP      Z       08 37.0
               ESCP      Z       12 23
          COB  EP        Z   04 06 27.1      38
          MNQ   P        Z   04 06 32.3      39
                PCP      Z       08 58.0
                SCP      Z       12 32.0
          WEL   P        Z   04 06 36        39
                SS       E       15 33
                L        ZNE     19 40                    67 18  48 18  30 18
          RAR  ES        ZNE 04 14 56        47
               ESS       ZNE     18 30
               EL        ZNE     20
          SBA  EP        ZNE 04 10 30        72
               EPCP      ZNE     50
               EPP       ZNE     13 14
               EPPP      ZNE     15 00
               ES        ZNE     19 52
               EPS       ZNE     20 20
               ESCS      ZNE         34
               ESS       ZNE     24 40
               ELQ       ZNE     29 20
               ELR       ZNE     32 50

NOV 21    KRP   P        Z   04 45 43.3
          MNQ  EP        Z   04 46 06.2

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 21    05 35 11.2    25.2N 140.8E 149KM  4.7  VOLCANO IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P        Z   05 46 12.3      71
          MNQ   P        Z   05 46 24.4      73
          MSZ   P        Z   05 46 31.0      74

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 21    07 31 17.4    54.8S 130.1W  33KM  5.7  PACIFIC-ANTARCTIC R.
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA  EP        ZNE 07 37 38.5      32
               ELQ       ZNE     44 30
               ELR       ZNE     46 00
          KRP  EP        Z   07 38 49.0      40
                *PP      Z       38
```

	H M S	EPICENTRE	DEPTH	MAG	
NOV 21	10 43 52.6	18.5S 168.7E	127KM	5.0	NEW HEBRIDES

			H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	10	48	20.9		20							
	MNG	P	Z	10	48	45.3J		23							
	COB	EP	Z	10	48	47.0		23							
NOV 21	AFI	P	ZNE	11	47	31									
		S	ZNE		48	17									
	KRP	P	Z	11	51	12.1									
NOV 21	AFI	P	Z	15	21	08									
		S	ZNE			45									

	H M S	EPICENTRE	DEPTH	MAG	
NOV 21	17 01 55.3	52.4N 173.6E	50KM	5.5	ALEUTIAN IS

			H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	17	13	14.9		70							
	KRP	EP	Z	17	14	51.6		90							
		*PP	ZNE		15	00.9									
	MNG	EP	Z	17	15	00.8		93							
		*PP	Z			11.0									
	SBA	EPKP	ZNE	17	21	01		130							
		EPP	ZNE		22	38.5									
		EPKS	ZNE		24	19									
		ESKS	ZNE		27	56									
		ESKS	ZNE		28	08									

	H M S	EPICENTRE	DEPTH	MAG	
NOV 21	17 16 36.0	6.6S 154.3E	43KM	5.1	SOLOMON IS

			H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	17	22	02.5		25							
	KRP	EP	Z	17	23	41.8		37							
		PCP	Z		26	04									
		(*PPCP)	Z			15.0									
	MNG	P	Z	17	23	58.1		39							
	MSZ	P	Z	17	24	08.8		40							
		*PP	Z			20.9									
NOV 21	RAO	P	Z	18	57	36.8									
		ES	Z			50									
	ONE	EP	E	18	59	24									
	CRZ	P	ZNE	18	59	31.6									
	WTZ	ES	Z	19	00	52									
	KRP	EP	Z	18	59	40.0									
	TRZ	S	Z	19	01	30.5									
	MNG	EP	Z	18	59	58.7									
		S	Z	19	02	00									
	WEL	ES	ZNE	19	02	19									
	COB	S	Z	19	02	37									

	H M S	EPICENTRE	DEPTH	MAG	
NOV 21	21 43 57.4	0.0N 123.7E	52KM	5.1	SULAWESI

			H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z	21	53	51.5		59							
	KRP	EP	Z	21	54	05.0		61							
NOV 21	RAO	EP	Z	21	59	13									
		ES	Z			40									

	H M S	EPICENTRE	DEPTH	MAG	
NOV 22	02 13 04.6	8.5S 158.5E	176KM	5.3	SOLOMON IS

			H	M	S	DIR	DIS	LG$_{WA}$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	02	19	26.5		33							
		*PP	Z		20	01.5									
	COB	P	Z	02	19	39.8		35							
	MNG	P	Z	02	19	44.6		35							

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        MJZ   P       ZNE 02 19 58.0      37
        MSZ   P       Z   02 19 59.1      37
        SBA   EP      ZNE 02 23 56        69

NOV 22  AFI   P       ZNE 06 39 53
              S       ZNE    40 22

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 22  08 51 29.5   15.6S 177.7W  384KM  4.8  FIJI REGION
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       Z   08 53 05          6
              S       ZNE    54 20
        WTZ   P       Z   08 55 59.0       23
        KRP   P       Z   08 56 03.9       23
        GNZ   P       Z   08 56 05.0       23

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 22  08 59 35.2   32.8S 177.9W   18KM        S. OF KERMADEC IS
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   EP      Z   09 00 29.0          4
              ES      Z      01 10
        WTZ   EP      Z   09 01 13           7
              ES      Z      02 25
        GNZ   EP      ZNE 09 01 15           7
              S       ZNE    02 31
        KRP   EP      ZNE 09 01 23           7
        CRZ E(P)      ZNE 09 01 46           8
        MNG   EP      Z   09 01 53           9
              ES      Z      03 32
        WEL   S       ZNE 09 03 51          10
        COB   S       Z   09 04 12          11
        CIZ   ES      ZNE 09 04 17          11
        MJZ   S       ZNE 09 05 24          14

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 22  09 09 09.6   13.4S 167.1E  180KM  4.6  NEW HEBRIDES
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP      Z   09 14 58          26

NOV 22  KRP   P       ZNE 11 34 48.0

NOV 22  NDF   P       Z   12 35 24.0
        KRP   P       Z   12 37 53.0
        MNG   P       Z   12 38 13.1
        MJZ   P       Z   12 38 41
        MSZ   EP      Z   12 38 48

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 22  13 51 10.4   15.4S 167.2E   43KM  5.4  NEW HEBRIDES
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   13 53 41.9D       10
        RAO   EP      Z   13 55 43           19
        CRZ   P       ZNE 13 55 39.4         20
        AFI   P       Z   13 55 47           20
              PP      ZNE    56 00
              ES      NE     59 24
              ESS     NE  14 00 02
              ELR     ZE     01 12
        KRP   P       ZNE 13 56 20.7         24
              *PP     Z          29.2
              PCP     Z   14 00 03.2
        WTZ   P       Z   13 56 24.0         24
        GNZ   P       ZNE 13 56 32.0         25
              S       E   14 00 58
        COB   P       Z   13 56 42.8         26
              *PP     Z          51.8
        MNG   P       Z   13 56 41.3         25
              PCP     Z   14 00 07.7
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             ES      Z       01 22
        WEL   P      ZNE 13 56 46.0      27
              PCP    Z   14 00 07.3
              S      E       01 28
        MJZ   P      ZNE 13 57 06.1      29
              *PP    Z          15.8
              PCP    ZNE 14 00 15.4
        MSZ   P      Z   13 57 09.8      29
        MNW   P      Z   13 57 18.5      30
        SBA  IP      ZNE 14 01 31   U    62 -0.41                                      6.7
             ES      ZNE     10 04
             ESS     ZNE     14 16
             ELR     ZNE     20 50

NOV 22  AFI   P      ZNE 13 58 22
              S      ZNE        42

NOV 22  MNW  EP      Z   14 46 49
        MSZ  EP      Z   14 46 51
        MJZ E(P)     Z   14 47 15
        SBA  EP      ZNE 14 47 33.5
             ES      ZNE     51 27
             ELR     ZNE     53 40
        WEL   S      N   14 52 24
             LQ      E       54
             LR      ZNE     55
        MNG  EP      Z   14 48 03
        AFI  ES      ZNE 14 59 40
             ELQ     NE  15 06
             ELR     ZN      09

NOV 22  MSZ   P      Z   15 17 01
        SBA  EP      ZNE 15 17 40.5
        MNG  EP      Z   15 18 11

         H  M  S      EPICENTRE    DEPTH  MAG
NOV 22  17 53 51.9   15.5S 173.0W   57KM  5.5  TONGA
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP      ZNE 17 54 20.5UNE  2
              S      ZNE        41
        NDF   P      Z   17 56 12.8U      9
        RAR  EP      ZNE 17 57 01        14
             ET      ZNE 18 09
        RAO  EP      Z   17 57 09        14
             ES      Z       59 41
        WTZ   P      Z   17 59 01.1      24
        GNZ   P      ZNE 17 59 05.7      24  0.33                                      6.7
              *PP    Z          17.0
        KRP   P      ZNE 17 59 07.0      25 -0.28                                      6.1
        MNG   P      Z   17 59 26.7      27 -0.68                                      5.8
        COB  EP      Z   17 59 40        28
        MJZ  EP      ZNE 18 00 08        32
        MSZ   P      Z   18 00 23.0      33
        MNW   P      Z   18 00 34.0      34
        SBA  EP      ZNE 18 04 27.5      63

NOV 23  WTZ   P      Z   04 35 51.9
        KRP   P      Z   04 35 57.2
        MNG   P      Z   04 36 20.0
              S      Z       39 57
        COB   P      Z   04 36 39.0         -1.11
        MSZ E(P)     Z   04 37 24

NOV 23  RAO  EP      Z   04 53 37.0
             ES      Z          55

NOV 23  RAO  EP      Z   05 34 59
            E(S)     Z       35 11
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NOV 23  KRP   P        Z   06 05 39.7

NOV 23  MSZ   EP       Z   06 19 16.3

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 23  08 07 25.1    20.2S 168.7E   33KM  4.8  LOYALTY IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   EP       Z   08 09 36.2      9
        KRP   P        Z   08 11 42.1     19
        WTZ   P        Z   08 11 51.0     19
        AFI   EP       Z   08 11 51       20
              ES       NE      15 12
              ESS      NE         40
           E(SSS)      E       16 20
              ELR      ZNE     17 20
        GNZ   P        ZNE 08 11 58.0     20
        COB   P        Z   08 12 11.0     21
        MNG   P        Z   08 12 08.0     21
        MJZ   P        ZNE 08 12 37.2     24
        MSZ   P        Z   08 12 44.0     24
        SBA   EP       ZNE 08 17 14       58

NOV 23  AFI   P        ZNE 09 05 36
              S        ZNE     57

NOV 23  KRP   EP       ZE  10 15 08.0
        GNZ   P        ZNE 10 15 22.8
        MNG   P        Z   10 15 37.0
        MJZ   P        ZNE 10 16 11.1

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 23  14 52 13.8    32.6S 178.1W   33KM       S. OF KERMADEC IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P        Z   14 53 04.0      3
              ES       Z      41
        ECZ   EP       Z   14 53 39        6
        WTZ   EP       Z   14 53 48        7
        GNZ   EP       Z   14 53 50.0      7
              S        NE     55 06
        TUA   P        Z   14 53 57        7
              S        Z      55 18
        KRP   EP       Z   14 54 00        7
        TRZ   EP       Z   14 54 07        8
              ES       Z      55 37
        MNG   EP       Z   14 54 25       10
              ES       Z      56 06
        WEL   S        ZNE 14 56 27       10
        COB   ES       Z   14 56 50       11

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 23  15 02 11.1    32.6S 177.4W    5KM       S. OF KERMADEC IS
                          H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   EP       Z   15 03 08        4
              ES       Z      48
        ECZ   EP       Z   15 03 45.8      6
        WTZ   P        Z   15 03 55.0      7
              S        Z      05 11
        GNZ   P        ZNE 15 03 55        7
              S        ZNE    05 12
        ONE   EP       E   15 04 10        7
        TUA   P        Z   15 04 04.0      7
              S        Z      05 24
        KRP   EP       ZNE 15 04 07        8
        TRZ   EP       Z   15 04 13        8
              ES       Z      05 42
        CRZ   EP       ZNE 15 04 22        8
        MNG   EP       Z   15 04 31       10
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                ES        Z      06 12
          WEL    S        ZNE 15 06 33        11
          COB    S        Z   15 06 55        11
          MSZ   EP        Z   15 06 04        16

NOV 23    AFI    P        ZNE 19 54 11
                 S        ZNE        40

           H  M  S         EPICENTRE    DEPTH  MAG
NOV 24    00 02 53,1      13,7S 167,1E 196KM  3,8  NEW HEBRIDES
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNG    P        Z   00 08 23,2      28

NOV 24    RAO   IP        Z   01 49 43,0U
                ES        Z      50 10
          WTZ    P        Z   01 50 54
                ES        Z      52 21
          GNZ   EP?       Z   01 50 58
                IS        ZNE    52 35
          KRP    P        Z   01 51 08,0
          TUA   ES        Z   01 52 41
          CNZ   EP        Z   01 51 23
                ES        Z      53 07
          MNG    P        Z   01 51 30,8
                 S        Z      53 30,0
          WEL    S        ZNE 01 53 48
          COB    S        Z   01 54 04
          CIZ   ES        ZNE 01 54 37
          NDF   EP        Z   01 52 13,2

           H  M  S         EPICENTRE    DEPTH  MAG
NOV 24    03 48 35,1      39,5N  20,3E  11KM  5,3  GREECE
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   PKP       Z   04 09 21,0     161

           H  M  S         EPICENTRE    DEPTH  MAG
NOV 24    13 19 12,4      11,6N  85,4E  33KM  5,4  BAY OF BENGAL
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   EP        Z   13 32 24        93
          KRP   EP        Z   13 32 44        97

NOV 24    AFI   IP        ZNE 20 08 27  D
                 S        ZNE        09 19
          NDF   EP        Z   20 09 22,5
          WTZ    P        Z   20 11 51,0
          KRP   IP        ZNE 20 11 55,0D       -1,01
          GNZ    P        ZNE 20 11 57,8D

NOV 24    KRP    P        ZE  21 41 02,5
                (*PP)      ZE         16
          MNG    P        Z   21 41 27,0

           H  M  S         EPICENTRE    DEPTH  MAG
NOV 25    01 31 10,3      32,6S 178,1W  33KM  4,3  S. OF KERMADEC IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   EP        Z   01 31 58         3
                ES        Z      32 37
          AFI   EP        Z   01 35 41        19

NOV 25    KRP   EP        Z   02 10 40,0

NOV 25    NDF   IP        Z   08 48 17,0D

NOV 25    KRP    P        Z   08 50 15,0
          MNG   EP        Z   08 50 36

NOV 25    KRP   EP        Z   08 57 32
          MNG    P        Z   08 57 56,3
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                                  08
         COB   P        Z   00 58 08.0

NOV 25   RAO   EP       Z   11 31 59
               ES       Z      32 37

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 25   15 53 55.5    32.6S 177.9W   32KM        S. OF KERMADEC IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO   P        Z   15 54 45.0       3
               S        Z      55 23
         AFI   EP       Z   15 58 22        19
               ES       ZNE 16 01 43

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 25   18 45 21.4    14.9S 167.3E  142KM  4.9  NEW HEBRIDES
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   EP       Z   18 47 49.0       10
                *PP     Z      48 04.0
         CRZ   P        ZNE 18 49 45.7       20
         AFI   P        Z   18 49 49          20
         KRP   P        Z   18 50 24.9U      24 -0.59                          5.9
             I          Z      27.1
         WTZ   P        Z   18 50 29.0       25
         GNZ   P        ZNE 18 50 36.0       25
         COB   P        Z   18 50 48.0       27
         MNG   P        Z   18 50 46.7       27
         WEL   P        Z   18 50 53.0       27
         MSZ   P        Z   18 51 15.7D      30 -0.98                          5.6
         RAR   EP       ZNE 18 51 34          32
         SBA   IP       ZNE 18 55 34.3U      63 -0.33                          6.7

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 25   19 40 48.6    32.7S 177.6W   33KM        S. OF KERMADEC IS
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO   P        Z   19 41 41          3
               S        Z      42 17
         AFI   P        Z   19 45 18        19
             E(S)       E      49 08

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 25   20 03 29.3    80.3N   2.4W   33KM  5.6  N. OF SPITZBERGEN
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ   PKP      Z   20 23 00.0     144

NOV 25   RAO  E(P)      Z   21 11 15
              ES        Z      50
         WTZ  E(P)      Z   21 12 15
              E(S)      Z      13 13
         KRP  EP        Z   21 12 24.0
         MNG  ES        Z   21 14 17

NOV 26   NDF  EP?       Z   04 14 02.5
              E         Z      04

          H  M  S       EPICENTRE    DEPTH  MAG
NOV 26   04 22 51.9    22.1S 179.5W  599KM  5.5  S. OF FIJI
                                H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         NDF   IP       Z   04 24 28.0U       5
             E(S)       Z      25 47
         RAO   IP       Z   04 24 43.0U       7
               ES       Z      26 14
         AFI   IP       ZNE 04 25 17.9U      11 -0.85
                S       ZNE    27 13
         CRZ   P        ZNE 04 25 52.9       14
               E        ZNE    26 22.0
                S       NE     28 24
                SCP     ZNE    32 32.7
         ONE   S        E   04 28 32         15
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	AUC	P	Z	04	26	07.2	16				
	ECZ	EP	Z	04	26	06.7	16				
	WTZ	P	Z	04	26	08.0	16				
		SCP	Z		32	46.8					
	KRP	IP	ZNE	04	26	13.9	USW 16				
		S	NE		28	55					
		SCP	ZNE		32	51.9					
	GNZ	P	ZNE	04	26	13.4	17				
		S	ZNE		28	56					
	TUA	EP	Z	04	26	13.5	17				
	CNZ	P	Z	04	26	21.6	18				
	TRZ	P	Z	04	26	23.0	18				
	TNZ	P	Z	04	26	28.0	18				
	RAR	EP	ZNE	04	26	31.8	18				
		ET	ZNE		42						
	MNQ	EP	Z	04	26	32.7	19				
		ePP	Z		27	55.0					
		S	Z		29	32					
		SCP	Z		33	12.8					
		SCS	Z		36	49.5					
	WEL	P	ZNE	04	26	41.3	20	-0.13			6.4
		S	ZNE		29	45					
	COB	P	Z	04	26	44.8	20				
		S	Z		29	53					
		SCP	Z		33	23					
	CIZ	P	Z	04	27	05.0	22				
	GPZ	P	N	04	27	06.0	23				
	OMZ	P	Z	04	27	22.8	24				
	MNW	EIP	Z	04	27	37.2	U 26	-0.09			6.4
		SCP	Z		34	16.0					
	WPZ	P	Z	04	27	40.7	26				
	SBA	IP	ZNE	04	31	48.5	U 56	0.10			6.4
NOV 26	RAO	E(P)	Z	04	30	48					
		E(S)	Z		32	50					
	NDF	IP	Z	04	30	52.5	D				
	AFI	(P)	ZNE	04	31	31					
		(S)	ZNE		33	15					
NOV 26	NDF	EP	Z	04	47	20.6					
	AFI	IP	Z	04	47	44.1	U				
		ES	NE		49	10					
	RAO	ES	Z	04	50	32					
	KRP	EP	Z	04	49	56					
	MNQ	EP	Z	04	50	22					
NOV 26	KRP	EP	Z	07	45	19.0					

	H	M	S	EPICENTRE		DEPTH	MAG								
NOV 26	07	50	35.9	4.2N	124.4E	330KM	5.3	CELEBES SEA							
						H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN TN	AE TE	MAG
	NDF	EP		Z		07	59	50		57						
	MNW	P		Z		08	00	29.1		63	-0.77					6.0
	KRP	P		ZNE		08	00	32.9		63	-1.00					5.8
	MNQ	P		Z		08	00	39.0		65						
		ePP		Z		01	44									
	GNZ	P		ZNE		08	00	45.0		65						
NOV 26	KRP	P		Z		11	00	01.8			-0.77					
	MNQ	P		Z		11	00	23.3								

	H	M	S	EPICENTRE		DEPTH	MAG								
NOV 26	12	41	51.3	32.6S	178.0W	5KM	5.3	S. OF KERMADEC IS							
						H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN TN	AE TE	MAG
	RAO	P		Z		12	42	42.5		3						
		S		Z			43	19								
	NDF	EP		Z		12	45	30		15						
	AFI	P		ZNE		12	46	19		19						

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                S       ZNE     49 38
        RAR     EP      ZNE 12  46 25.6      20
                ES      ZNE     50 00
        SBA     EP      ZNE 12  50 21.5      46
                ES      E       37 14

NOV 26  RAO     P       Z   12  59 25
                S       Z   13  00 01
        ECZ     EP      Z   13  00 03
        WTZ     EP      Z   13  00 12
                ES      Z       01 29
        GNZ     EP      ZNE 13  00 14
                S       ZNE     01 33
        KRP     EP      ZNE 13  00 23
        TRZ     S       Z   13  02 04
        MNQ     EP      Z   13  00 48
                ES      Z       02 34
        WEL     S       ZNE 13  02 50
        COB     ES      Z   13  03 14
        MNW     E(P)    Z   13  02 35

NOV 26  WTZ     ES      Z   13  03 29
        GNZ     S       ZNE 13  03 31
        KRP     E(P)    Z   13  02 33
        CRZ     P       ZNE 13  02 47.8
        TRZ     ES      Z   13  04 01
        MNQ     ES      Z   13  04 32
        WEL     ES      ZNE 13  04 50
        COB     ES      Z   13  05 13

NOV 26  AFI     P       ZNE 13  20 22
                S       ZNE     22 06
        WTZ     EP      Z   13  21 41
        KRP     P       Z   13  21 46.0
        GNZ     P       Z   13  21 48.0
        MNQ     EP      Z   13  22 01

NOV 26  KRP     P       Z   14  13 25.0
        GNZ     ES      ZNE 14  16 05
        MNQ     EP      Z   14  13 48
                S       Z       16 39

         H  M   S        EPICENTRE     DEPTH  MAG
NOV 26  15 31 38.0      24.2S 175.0W    33KM  5.5  S. OF TONGA
                          H  M   S   DIR DIS LG.A/T  AZ TZ  AN TN  AS TS  MAG
        RAO     P       Z   15 32 57.9      6
                S       Z       34 02
        NDF     EP      Z   15 33 57.9      10
        AFI     P       ZNE 15 34 06        11
                S       ZNE     35 56
                T       ZNE     42 26
        RAR     EP      ZNE 15 34 51        14
                ES      ZNE     37 18
                ET      ZNE     48
        CRZ     EP      ZNE 15 35 08.8      15
        GNZ     EP      Z   15 35 11.0      16
                E       ZNE     19.7
                S       ZNE     37 53
        KRP     EP      Z   15 35 19.0      16
                E       ZNE     26.0
        MNQ     EP      Z   15 35 40        18
                ES      Z       38 49
        WEL     EP      Z   15 35 58        19
                S       ZNE     39 22
        COB     EP      Z   15 36 04        20
        MNW     P       Z   15 37 05.7      26 -0.65                    5.8
        SBA     EP      ZNE 15 41 05        54
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NOV 26  RAO E(P)      Z   15 37 25
        E(S)          Z      39 07

NOV 26  RAO  P        Z   16 06 17.0
        ES            Z      43
        CRZ  P        ZNE 16 08 06.5
        GNZ  S        ZNE 16 09 28
        WTZ  ES       Z   16 09 29
        KRP  EP       Z   16 08 11
        MNQ  EP       Z   16 08 37
             ES       Z   16 10 27
        WEL  ES       ZNE 16 10 48

NOV 26  RAO  EP       Z   16 13 06
             ES       Z      25

          H  M  S      EPICENTRE    DEPTH  MAG
NOV 26  18 39 25.2   13.2S 166.7E  146KM  4.7  NEW HEBRIDES
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  P        Z   18 45 13.0       26
        MNQ  EP       Z   18 45 40          28

NOV 27  RAO  P        Z  ?02 24 33.0
             ES       Z      28 10

          H  M  S      EPICENTRE    DEPTH  MAG
NOV 27  02 45 41.8   20.2N 121.9E   33KM  5.4  PHILIPPINES
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP       Z   02 57 16          74
        KRP  P        Z   02 57 32.5       77
        MSZ  P        Z   02 57 36.0       77
        COB  P        Z   02 57 34.9       77
        MNW  E(*PP)   Z   02 57 46.5       78
        MNQ  P        Z   02 57 40.8       79
        GNZ  P        Z   02 57 43.8       79

          H  M  S      EPICENTRE    DEPTH  MAG
NOV 27  02 49 47.5    3.0N 124.7E   48KM  5.2  CELEBES SEA
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP       Z   03 00 00.0       61
        MNW  P        Z   03 00 03.1       62
        COB  EP       Z   03 00 08          62
        KRP  EP       Z   03 00 11.0       62
        MNQ  EP       Z   03 00 16.0       63
        GNZ  P        Z   03 00 30.0       64

          H  M  S      EPICENTRE    DEPTH  MAG
NOV 27  03 25 34.2   13.8S 167.2E  208KM  4.1  NEW HEBRIDES
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP       Z   03 29 58          20
        MNQ  P        Z   03 31 03.0       28

          H  M  S      EPICENTRE    DEPTH  MAG
NOV 27  04 27 18.9   32.2S 178.1W   48KM       S. OF KERMADEC IS
                        H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP       Z   04 28 03           3
             ES       Z      39
        AFI  EP       Z   04 31 41          19
             ES       Z      35 06

NOV 27  RAO  EP       Z   05 35 55
             ES       Z      36 32
        WTZ E(P)      Z   05 36 42
             ES       Z      38 03
        GNZ  S        ZNE 05 38 05
        KRP E(P)      Z   05 37 01
        MNQ  EP       Z   05 37 01
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          ES        Z       39 08
     WEL   S        ZNE 05 39 26
     COB   ES       Z   05 39 48

      H  M  S       EPICENTRE    DEPTH  MAG
NOV 27 06 42 19,6    0,6N 126,2E  24KM   5,7  MOLUCCAS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   P        Z   06 52 14,0      58
     MNW   P        Z   06 52 16,0      59
     COB   EP       Z   06 52 19,6      59
     KRP   P        Z   06 52 20,9      59
     WEL   EP       Z   06 52 28        61
           ES       E   07 01 08
     MNG   EP       Z   06 52 27        61
     GNZ   P        ZNE 06 52 36,7      61
     SBA   EP       ZNE 06 54 35        81

NOV 27 AFI   IP      ZNE 08 17 28,8D
            S        ZNE       46

NOV 27 RAO   EP      Z   08 29 28
           ES        Z       30 04
     GNZ   S        ZNE 08 31 42
     MNG E(S)       Z   08 32 40
     WEL   ES       ZNE 08 32 57

      H  M  S       EPICENTRE    DEPTH  MAG
NOV 27 08 55 29,7    3,5N 127,9E  105KM  5,7  S. OF MINDANAO
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     MSZ   P        Z   09 05 26,0      60 +0,93                       6,3
     KRP   EP       Z   09 05 28,7      60
           (*PP)    Z       06 15
     COB   P        Z   09 05 28,8      60
     MNW   P        Z   09 05 29,0      60
     MNG   P        Z   09 05 36,9      62

NOV 27 MNG   EP      Z   10 01 31

NOV 27 AFI   P       ZNE 11 06 53
            S        ZNE     07 10

      H  M  S       EPICENTRE    DEPTH  MAG
NOV 27 12 26 11,6    55,4S   1,4W  33KM   5,0  BOUVET I.
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     SBA   EP       ZNE 12 34 42,5      47

      H  M  S       EPICENTRE    DEPTH  MAG
NOV 27 15 17 40,8    5,3S 126,6E  425KM  5,8  BANDA SEA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
     NDF   P        Z   15 26 06,5      51
     CRZ   P        ZNE 15 26 07,5      51
     MSZ   IP       Z   15 26 20,2J     53 +0,22                       6,2
           PCP      Z       27 21,5
           *PP      Z       30,6
           *SP      Z       28 22,0
     MNW   IP       Z   15 26 23,0J     54 +0,52                       5,9
     COB   P        Z   15 26 28,0      54
           *PP      Z       28 03
     KRP   P        ZNE 15 26 32,9      55
         EPCP       Z       27 27,0
           *PP      ZE      28 07
           (*SP)    ZE      29 02,0
           SCP      ZNE     30 32,5
     WEL   EP       ZNE 15 26 35,5      56 +0,36                       6,0
           *PP      Z       28 11,0
           (*SP)    Z       48
           S        NE      33 47
           SCS      NE      35 38
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                SSS     N       40 26
                L       ZNE     46
          WTZ   P       Z   15  26 38.2      56
                *PP     Z       28 12
                E       Z       27
          MNQ   IP      Z   15  26 38.6U     56 +0.72                          5.7
                (PCP)   Z       27 23
                *PP     Z       28 12.7
          GNZ   P       ZNE 15  26 45.9      57
                *PP     ZNE     28 20.5
          AFI   IP      Z   15  27 15  D     61 +0.62                          6.0
                (*PP)   ZNE     28 48
                S       ZNE     35 00
                (*SS)   ZE      37 40
                SS      NE      41 12
                SSS     ZE      44 00
          CIZ   EP      ZNE 15  27 24        63
          RAR   EP      ZNE 15  28 26        73
                ES      N       37 20
          SBA   IP      ZNE 15  28 41  U     75 +0.63                          6.1
                E*PP    ZNE     30 13.3
                EPP     ZNE     31 34
                ES      ZNE     37 40
                E*SS    ZNE     40 25
                ESS     ZNE     42 45

NOV 27    KRP   P       Z   17  11 50.0
          MNQ   EP      Z   17  12 09

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 27    20 32 57.1    22.8S 172.0E   85KM  4.9  LOYALTY IS
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          GNZ   EP      Z   20 36 46       17
          MNQ   EP      Z   20 37 02.0     18
          COB   EP      Z   20 37 06       19
          MSZ   EP      Z   20 37 48.0     22

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 27    23 38 35.3    0.8S 147.6E   44KM  5.1  ADMIRALTY IS
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNQ   EP      Z   23 47 04.0     47
          MSZ   EP      Z   23 47 07.2     47

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 28    01 51 27.4    22.8S 171.8E  106KM       LOYALTY IS
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   EP      Z   01 55 01.0     15
          MNQ   EP      Z   01 55 30.0     18

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 28    08 47 54.7    5.9S 153.4E   33KM  4.4  NEW IRELAND
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P       Z   08 55 01.5     38
          COB   EP      Z   08 55 21       39
          MNQ   P       Z   08 55 25.6     40
          MSZ   P       Z   08 55 36.0     41

           H  M  S       EPICENTRE    DEPTH  MAG
NOV 28    09 54 20.7    32.2S 179.9E  308KM  4.1  S. OF KERMADEC IS
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   P       Z   09 55 22.0      3
                S       Z       56 11
          NDF   P       Z   09 57 35.8     15
          AFI   EP      Z   09 58 27       20
                S       ZNE 10 01 50

NOV 28    RAO   P       Z   16  05 32.8
                S       Z       06 02
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        GNZ  EP       ZNE 16 08 03
             S        ZNE    09 53
        KRP  EP       Z   16 08 07
        MNG  E(P)     Z   16 08 19
             E(S)     Z      10 52

NOV 28  MSZ  P        Z   20 42 04.0

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 29  02 13 50.8    17.5S 173.9W   80KM  5.0  TONGA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  P        ZNE 02 14 47          4
             S        ZNE    15 30
        NDF  EP       Z   02 15 59          9
        RAO  P        Z   02 16 40.0       12
             S        Z      18 50
        RAR  EP       ZNE 02 17 10         14
             ES       ZNE    19 38
        WTZ  P        Z   02 18 38.6       22
        GNZ  P        ZNE 02 18 41.1       22
             S        ZNE    22 37
        KRP  IP       ZNE 02 18 44.0D      22
        MNG  P        Z   02 19 05.1       25
             ES       Z      23 22
        WEL  EP       ZNE 02 19 11         26
        COB  EP       Z   02 19 18.0       26
        MSZ  EP       Z   02 20 09         31
        MNW  P        Z   02 20 12.0       32
             *PP      Z          21

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 29  02 58 50.7     4.1N 128.6E   60KM  5.0  HALMAHERA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P        Z   03 08 52.9       60 -1.02                      6.2
        KRP  P        Z   03 08 55.0       60
        COB  P        Z   03 08 55.8       60
        MNW  P        Z   03 08 56.0       60
        MNG  P        Z   03 09 00.7       62

NOV 29  AFI  P        Z   07 26 38
             S        ZNE    27 01

         H  M  S       EPICENTRE    DEPTH  MAG
NOV 29  07 57 45.1    16.0S 172.9W   13KM  4.9  SAMOA REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  P        ZNE 07 58 21          2
             S        ZNE    50
        NDF  EP       Z   08 00 12         10
        RAR  ES       ZNE 08 03 05         13
        WTZ  P        Z   08 02 58.0       24
        GNZ  P        Z   08 03 00         24
        KRP  P        ZNE 08 03 04.8       24
        MNG  EP       Z   08 03 23         27
        COB  EP       Z   08 03 38         28
             *PP      Z          41.8

NOV 29  SBA  EP       ZNE 08 30 52
             EL       ZNE    34 30
        MNW  EP       Z   08 31 36
        MSZ  P        Z   08 31 46.0
        MNG  P        Z   08 32 46.0
        COB  EP       Z   08 32 47

NOV 29  WTZ  P        Z   12 15 39.7
             S        Z      17 05
        GNZ  EP       ZNE 12 15 41
             S        ZNE    17 09
        KRP  EP       Z   12 15 46.0
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         MNG    P        Z   12 16 09,0
                ES       Z      17 57

NOV 29   RAO    P        Z   14 57 37,9
                ES       Z      58 04
         GNZ    ES       NE  15 01 51

NOV 29   RAO    EP       Z   21 39 08
                S        Z      41

NOV 30   AFI    IP       ZNE 02 46 33  D
                S        ZNE    47 05
         NDF    P        Z   02 47 49,1
         GNZ    P        ZNE 02 50 47
         KRP    P        ZNE 02 50 47,9        -0,33
                ePP      Z      51 07,2
         CNZ    P        Z   02 50 58
         MNG    P        Z   02 51 09,0
         COB    EP       Z   02 51 19,3
         MSZ    EP       Z   02 52 04
         MNW    P        Z   02 52 11,7

          H  M  S        EPICENTRE    DEPTH  MAG
NOV 30   08 43 04,4     52,8S  21,1E   33KM  4,9  S. OF AFRICA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         SBA    EP       ZNE 08 51 32      48
                ES       ZNE    58 40

NOV 30   AFI    P        ZNE 09 52 28
                S        ZNE    55
                T        ZNE    54 30

          H  M  S        EPICENTRE    DEPTH  MAG
NOV 30   10 17 22,3     12,6N 144,4E   49KM  5,0  CAROLINE IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP    P        Z   10 27 13,6      58
         COB    P        Z   10 27 22,8      59 -1,18                    6,0
         MNG    P        Z   10 27 26,3      60 -1,27                    5,9
         MSZ    P        Z   10 27 32,2      61
         MNW    P        Z   10 27 37,7      62

NOV 30   RAO    P        Z   17 06 30,5
                S        Z      45
         WTZ    ES       Z   17 09 40
         GNZ    S        ZNE 17 09 44
         CRZ    P        ZNE 17 08 18,0
         MNG    EP       Z   17 08 46
                ES       Z      10 41

NOV 30   RAO    P        Z   18 18 01,9
                S        Z      33
         WTZ    P        Z   18 19 29,0
                ES       Z      21 13
         GNZ    EP       Z   18 19 32
                S        ZNE    21 14
         MNG    EP       Z   18 19 59
                EP       Z      22 10
         WEL    ES       ZNE 18 22 26
         COB    ES       Z   18 22 41

NOV 30   WTZ    EP       Z   19 03 22
         KRP    EP       Z   19 03 26
         MNG    EP       Z   19 03 48

          H  M  S        EPICENTRE    DEPTH  MAG
NOV 30   19 47 38,8     9,8S 159,4E   85KM  5,2  SOLOMON IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP    P        Z   19 53 56,0      32
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        MNG    P        Z   19 54 12.6       34
        MNW    P        Z   19 54 36.7       37

NOV 30  AFI    P        Z   20 40 58
               S        ZNE    41 18

         H  M  S        EPICENTRE    DEPTH   MAG
NOV 30  22 31 56.0      5.2S 153.7E   54KM   4.9  NEW IRELAND
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EIP        ZNE 22 39 12.9U      38 -0.69                      6.1
        COB    P        Z   22 39 25.0       40
               ePP      Z      41
        GNZ    P        ZNE 22 39 26.1       40
        MNG    P        Z   22 39 29.5       40 -0.82                      6.0
        MSZ    P        Z   22 39 39.0       41
               ePP      Z      56.0

         H  M  S        EPICENTRE    DEPTH   MAG
DEC 01  03 02 10.3      35.6N 140.6E  62KM   4.7  HONSHU
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG  EP         Z   03 14 26       82

DEC 01  AFI    P        ZNE 05 09 58
               S        ZNE    11 31

DEC 01  AFI    P        Z   06 54 35
               S        ZNE    55 02
               T        ZNE    57 20

         H  M  S        EPICENTRE    DEPTH   MAG
DEC 01  14 53 44.4      0.5N 126.1E   33KM   5.6  MOLUCCAS
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P        Z   15 03 05.5       54
        MSZ  EP         Z   15 03 38          58
        KRP  EP         Z   15 03 49          59
        WTZ  EP         Z   15 03 55          60
        MNG  EP         Z   15 03 49          61
        AFI    P        Z   15 04 11          63
               S        NE     13 12
               L        ZNE    23
        SBA  EP         ZNE 15 05 57.5       81
               ES       ZNE    16 10

DEC 01  AFI    P        Z   15 05 47
               S        ZNE    06 14

         H  M  S        EPICENTRE    DEPTH   MAG
DEC 02  00 19 47.2      6.5N 126.6E   33KM   6.3  MINDANAO
                           H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P        Z   00 29 25.1       56
               PCP      Z      43.8
        CRZ  EP         ZNE 00 29 55          60 -0.44                      6.8
               PCP      ZNE    30 18
               PP       ZNE    32 42
               PPP      Z      34 04
               PCS      ZNE    38
               S        ZNE    38 28
               SCS      NE     40 03
        MSZ EIP         Z   00 30 12          63 -0.62                      6.5
             IPCP       Z      37
             (PCS)      Z      35 43
               S        Z      39 10
               PKPPKP   Z      59 36
               PKPPKP   Z      59
        KRP  EP         ZNE 00 30 15          63 -1.00                      6.2
             (ePP)      Z      28
               PCP      Z      40
            E(PP)       ZNE    33 29
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              PCS      ZNE      35 02
              S        ZNE      39 08
             (SS)      NE       43 30
              EL       ZNE      51
               PKPPKP  ZNE      59 34
               PKPPKP  ZNE 01   00 10
       ROX     EP       ZNE 00   30 22        64 =0,98    69 14                 6,9
               EPCP     Z        46
               EPP      Z        33 24
               ES       ZNE      39 04
               EPS      ZNE      46
               EPKPPKP  Z        59 39
       AFI     P        ZNE 00   30 22        64
               PCP      Z        31 08
               PP       ZE       33 00
               S        ZNE      39 00
               SS       ZNE      43
               SSS      ZNE      46
       WEL     EP       ZNE 00   30 22        65 =0,60    73 18                 7,0
               PCP      ZNE      45
              E(PP)     Z        33 40
               ES       ZNE      38 54
               PS       ZNE      39 26
               PKPPKP   ZNE      59 27
               PKPPKP   ZNE      54
       MNG     EP       Z    00  30 26        65
               PCP      Z        50
              E(PCS)    Z        35 07
               ES       Z        39 09
               EPS      Z        24
               PKPPKP   Z        59 22
               PKPPKP   Z        53
       CBZ     EP       Z    00  30 52        69
               PCP      Z        31 12
              (*PP)     Z        32
               I        Z        32 11
       RAR     EP       ZNE 00   31 41        77
               EPCP     ZNE      32 00
               EPP      ZNE      34 40
               ES       ZNE      41 40
               ESS      ZNE      46 30
               EL       ZNE      51 00
       SBA     EP       ZNE 00   32 30        87
               EPP      ZNE      35 50
               EPPP     ZNE      38 08
               ESKS     ZNE      42 32
               ESS      ZNE      43 06
               EPS      ZNE      44 00

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 02  01 37 45,2       6,2N 127,2E   94KM  5,2  PHILIPPINES
                              H  M  S   DIR DIS LG_mA/T  AZ TZ  AN TN  AE TE  MAG
       MSZ     P         Z    01 48 00,8      62
       KRP     P         Z    01 48 03,7      63

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 02  01 40 47,8       6,5N 126,6E   54KM  5,9  MINDANAO
                              H  M  S   DIR DIS LG_mA/T  AZ TZ  AN TN  AE TE  MAG
       NDF    E(P)       Z    01 50 42      56
       MSZ     EP        Z    01 51 12      63 =1,06                          6,1
               PCP       Z        33
               PP        Z        54 20
       KRP     EP        Z    01 51 14      63 =1,26                          5,8
               PCP       Z        33
       CDB     EP        Z    01 51 14      63
               EPCP      Z        35
       MNW     EP        Z    01 51 15      64 =1,21                          5,9
               EPCP      Z        34
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        AFI  EP       Z   01 51 34        64
        MNQ  EP       Z   01 51 21        65 -1,26                          5,8
             E(PCP)   Z       44
        SBA  EP       ZNE 01 53 27        87

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 02  02 12 57,7    5,9N 127,2E  33KM  4,9  PHILIPPINES
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP       Z   02 23 27        62
        MNQ  E(P)     Z   02 23 40        64

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 02  02 22 07,1    5,8N 127,2E  51KM  4,9  PHILIPPINES
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP       Z   02 32 25        62
        KRP  EP       Z   02 32 32        63
             PCP      Z       55
        MNW  EP       Z   02 32 33        63
        COB  EP       Z   02 32 34        63

DEC 02  MSZ  EP       Z   02 36 54

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 02  02 56 37,6    6,2N 127,9E  65KM  5,8  MINDANAO
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP       Z   03 07 01        62
        KRP  E(P)     Z   03 07 09        63
        MNW  E(P)     Z   03 07 15        63

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 02  03 29 16,5    6,1N 127,4E  33KM  5,0  PHILIPPINES
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  E(P)     Z   03 39 35        62
        KRP  P        Z   03 39 40,5      63

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 02  03 32 58,7    5,8N 127,1E  33KM  4,9  PHILIPPINES
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P        Z   03 43 19,3      62

DEC 02  MSZ  P        Z   03 54 36,3
        MNQ  EP       Z   03 54 47

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 02  03 56 57,6    6,2N 127,9E  65KM  5,8  PHILIPPINES
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        NDF  P        Z   04 06 24        55
        MSZ  P        Z   04 07 15,6      62 -0,78                          6,3
             PCP      Z       51
             E(PP)    Z       09 18
             E(PCS)   Z       12 01
        COB  EP       Z   04 07 16        63 -0,73                          6,4
             E(PP)    Z       09 26
        KRP  P        ZNE 04 07 17,4      63 -0,45                          6,7
             PCP      ZNE     51
             E(PP)    Z       09 27
        MNW  P        Z   04 07 18,0      63
        AFI  P        Z   04 07 23        63
        MNQ  P        Z   04 07 24,5      64 -0,82                          6,3
             E(PP)    Z       09 34
        SBA  EP       ZNE 04 09 36,2      87

DEC 02  MSZ  IP       Z   04 12 01,7D
        KRP  E        Z   04 13 01

DEC 02  MSZ  EP       Z   04 21 40
        MNW  E(P)     Z   04 21 46
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  04 31 47,1     6,2N 127,4E   65KM  5,3  PHILIPPINES
                                H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  IP       Z     04 42 06,5D     62 -1,00                        6,1
               E        Z           54
          COB  EP       Z     04 42 07        63
          KRP  IP       ZNE   04 42 08,2D     63 -0,82                        6,3
          MNW  EP       Z     04 42 09        63
          MNB   P       Z     04 42 14,9      64 -1,14                        5,9

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  04 48 37,4     6,1N 127,1E   33KM  5,0  PHILIPPINES
                                H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P       Z     04 58 59,8      62 -1,16                        6,0
          MNW   P       Z     04 59 02,7      63

DEC 02    MSZ  EP       Z     05 13 13

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  05 04 03,0     5,6N 127,2E   33KM  5,0  PHILIPPINES
                                H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  E*PP     Z     05 14 36        62

DEC 02    MSZ  EP       Z     05 19 49

DEC 02    MSZ   P       Z     05 37 02,3        -1,40

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  05 48 19,5     5,6N 127,3E   33KM  5,4  PHILIPPINES
                                H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
          NDF   P       Z     05 37 52        55
          MSZ   P       Z     05 38 43,1      62 -0,88                        6,3
               E(PCP)   Z           39 21
          MNW   P       Z     05 38 44,4      62
               E(PCP)   Z           39 19
          KRP  EP       ZNE   05 38 45        62
               E(PCP)   Z           39 19
          COB  EP       Z     05 38 45,5      62
          AFI   P       Z     05 38 53        63
                PCP     Z           39 27
                S       ZNE   06 07 28
                SBS     N           15 00
                LR      ZNE         18
          MNQ E(P)      Z     05 38 54        64
          SBA  EP       ZNE   06 00 48        86

DEC 02    MSZ   P       Z     06 18 00,8

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  06 54 39,7     5,6N 127,4E   61KM        PHILIPPINES
                                H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  EP       Z     07 04 53        62
          MNW E(P)      Z     07 04 58        62

DEC 02    MSZ   P       Z     07 07 45,8

DEC 02    AFI  EP       Z     07 15 42
                S       ZNE         16 09
                T       ZNE         18 04

DEC 02    MSZ   P       Z     07 24 36,0

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  08 18 01,9     6,3N 127,3E   33KM  4,9  PHILIPPINES
                                H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  EP       Z     08 28 25        62 -1,38                        5,8
          KRP  EP       ZNE   08 28 27        63 -1,41                        5,8
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DEC 02  MSZ  EP        Z   08 37 42

DEC 02  MSZ  EP        Z   09 04 42
        MNG  EP        Z   09 04 53

         H  M   S       EPICENTRE    DEPTH  MAG
DEC 02  09 54 21.7     5.9N 127.2E   60KM   5.1  PHILIPPINES
                          H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ E(P)       Z   10 04 38        62
        MNW  EP        Z   10 04 34        63
        MNG E(P)       Z   10 04 50        64

         H  M   S       EPICENTRE    DEPTH  MAG
DEC 02  10 16 26.8     5.8N 127.4E   88KM   5.0  PHILIPPINES
                          H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   10 26 43.4      62

DEC 02  MSZ  EP        Z   10 35 55

         H  M   S       EPICENTRE    DEPTH  MAG
DEC 02  10 36 04.4     6.1N 127.0E   33KM   5.0  PHILIPPINES
                          H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   10 46 26.7      62 -1.21                       6.0
        KRP   P        Z   10 46 29.5      63
        MNW  EP        Z   10 46 30        63
        MNG E(P)       Z   10 46 35.5      64

DEC 02  MSZ   P        Z   10 55 00.0

DEC 02  MSZ  EP        Z   11 37 12
        COB E(P)       Z   11 37 14

         H  M   S       EPICENTRE    DEPTH  MAG
DEC 02  11 26 55.5     5.7N 127.2E   68KM   5.6  PHILIPPINES
                          H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   11 37 16.6      62
        KRP  EP        Z   11 37 21        62
        MNW  EP        Z   11 37 19        63

DEC 02  MSZ  EP        Z   11 52 11.5
             PP        Z       54 49.1

         H  M   S       EPICENTRE    DEPTH  MAG
DEC 02  12 24 07.9     5.8N 127.2E   72KM   4.9  PHILIPPINES
                          H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   12 34 25.2      62 -1.26                       5.9
        KRP E(P)       Z   12 34 27        63
        COB  EP        Z   12 34 27        63
        MNW   P        Z   12 34 27.6      63 -1.21                       5.9
        MNG   P        Z   12 34 36.0      64

DEC 02  MSZ  EP        Z   13 18 52

DEC 02  MSZ  EP        Z   13 48 09
        MNW  EP        Z   13 48 14

DEC 02  MSZ   P        Z   14 23 43

         H  M   S       EPICENTRE    DEPTH  MAG
DEC 02  14 47 27.4     6.7N 127.0E   75KM   4.6  PHILIPPINES
                          H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP        Z   14 57 49        63

DEC 02  MSZ  EP        Z   17 21 59

DEC 02  MSZ   P        Z   17 55 38.1
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  18 15 52.3     6.0N 127.0E   77KM  5.1  PHILIPPINES
                            H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  IP       Z   18 26 09.6J     62 +1.21                          5.9
        COB  EP       Z   18 26 11        63
        MNW   P       Z   18 26 12.4      63 +1.08                          6.0
        MNG  EP       Z   18 26 19        64

DEC 02  MSZ  EP       Z   18 44 43

DEC 02  AFI  IP       ZNE 18 50 29.40
             S        ZNE       51

DEC 02  MNW  EP       Z   19 32 51.5

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  21 00 30.8     5.9N 127.2E   64KM  5.0  PHILIPPINES
                            H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   21 10 48.1      62
             (PP)     Z       14 08

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  21 47 46.0     6.4N 127.2E   67KM  4.7  PHILIPPINES
                            H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP       Z   21 58 06        63
        KRP  EP       Z   21 58 21        63

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  21 58 49.8     36.9S  78.4E  33KM  5.2  INDIAN OCEAN
                            H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP       ZNE 22 08 08        54
             ES       ZNE     15 50
             EPS      ZNE     16 00
             ESS      ZNE     19 40
             EL       ZNE     22 30
        MSZ   P       Z   22 09 33        65 +1.16                          6.0
        MNG  EP       Z   22 10 11        72
        KRP  E(P)     Z   22 10 26        73
        AFI  ESS      Z   22 30 40        97
             ELR      ZNE     45

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 02  23 38 44.3     3.7N 126.6E   99KM  5.2  HALMAHERA
                            H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP       Z   23 48 42        60

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 03  01 01 46.9     5.7N 126.9E   62KM  5.1  MINDANAO
                            H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  E(P)     Z   01 12 08        62
        MNW  EP       Z   01 12 12        63
        KRP  EP       Z   01 12 17        63
        MNG  E(P)     Z   01 12 19        64

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 03  01 26 57.8     5.6N 127.5E   60KM  5.0  PHILIPPINES
                            H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   01 37 12.4      62 +1.32                          5.8
        MNW   P       Z   01 37 16.3      62
        KRP  E(P)     Z   01 37 17        62
        MNG  EP       Z   01 37 24        64

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 03  01 56 21.8     5.6N 127.3E   45KM  4.9  PHILIPPINES
                            H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   02 06 39.0      62 +1.26                          5.9
        MNW  E(P)     Z   02 06 43        62
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        MNG E(P)      Z   02 06 53        64

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 03  03 04 33,1    6,0N 127,2E  65KM   5,0  PHILIPPINES
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   03 14 50,0      62 -1,16                      6,0
        MNW   EP      Z   03 14 51        63
        KRP E(P)      Z   03 14 52,7      63
        MNG   EP      Z   03 14 59        64

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 03  07 45 02,6    6,5N 126,8E  82KM   5,3  MINDANAO
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   07 55 25        63
        KRP   EP      Z   07 55 34        63
        MNW   EP      Z   07 55 29        64
        MNG   EP      Z   07 55 39        65
        SBA   EP      ZNE 07 57 41        87

DEC 03  MSZ   EP      Z   08 58 52

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 03  08 54 36,1    17,8S 178,5W 604KM  4,6  FIJI REGION
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P       Z   08 56 02,4       4
        AFI   P       ZNE 08 56 32        8
              S       ZNE    58 02
        KRP   P       Z   08 58 37,8      21
        MNG   P       Z   08 58 56,0      23
        MSZ   EP      Z   08 59 51        29
        MNW   P       Z   09 00 00,9      30

DEC 03  AFI   IP      ZNE 09 02 33  U
              S       ZNE    02

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 03  09 25 20,6    6,2N 127,2E  68KM   5,0  PHILIPPINES
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   EP      Z   09 35 39        62
              *PP     Z      53
        KRP E(P)      Z   09 35 41        63
              (*PP)   Z      56
        MNW   EP      Z   09 35 42        63
              *PP     Z      56
        MNG E(P)      Z   09 35 56        64

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 03  09 59 41,7    5,9N 127,2E  84KM        PHILIPPINES
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   EP      Z   10 10 02,5      62 -1,32                      5,8
        KRP E(P)      Z   10 10 06        63
        MNW   EP      Z   10 10 06        63

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 03  10 32 49,9    24,0S 176,0W 33KM   4,9  S. OF FIJI
                        H  M  S   DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P?      Z   10 34 01        6
        NDF   EP      Z   10 35 03,3      9
        AFI   P       ZNE 10 35 18        11
              S       ZNE    37 07
        RAR   EP      ZNE 10 36 11,8      15
              ES      ZNE    39 28
              ET      ZNE    51
        MNG   P       Z   10 37 03,6      15 -0,96                      5,2
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                H  M  S        EPICENTRE    DEPTH  MAG
DEC 03          11 16 10,7     5,9N 127,3E  75KM   4,6  PHILIPPINES
                               H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P              Z  11 26 27,9     62 -1,46                      5,7
                *PP            Z        41,7
          KRP   E(P)           Z  11 26 39       63

DEC 03    MSZ   P              Z  12 04 58,4       -1,38

                H  M  S        EPICENTRE    DEPTH  MAG
DEC 03          12 09 34,7     5,8N 127,2E  83KM         PHILIPPINES
                               H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P              Z  12 19 49,8     62 -1,32                      5,8

                H  M  S        EPICENTRE    DEPTH  MAG
DEC 03          14 56 43,2     44,8S  35,9E 33KM   5,1  S. INDIAN OCEAN
                               H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          SBA   EP             ZNE 15 06 07      54

DEC 03    MSZ   EP             Z  18 10 53
          KRP   E(P)           Z  18 11 13
                (*PP)          Z        29

                H  M  S        EPICENTRE    DEPTH  MAG
DEC 03          19 25 32,4     5,8N 127,3E  98KM   5,3  PHILIPPINES
                               H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          NDF   EP             Z  19 35 04,0     55
          MSZ   P              Z  19 35 54,1     62 -0,84                      6,3
                E              Z     36 29
          KRP   EP             Z  19 35 58       62 -0,97                      6,2
                EPCP           Z     36 24
          MNW   EP             Z  19 35 58       63
                EP             Z     36 23
          AFI   EP             Z  19 36 03       64
                ES             ZNE   44 36
                ESS            ZE    48 36
                ELR            ZNE   56
          MNG   EP             Z  19 36 07       64
                E              Z     40
          SBA   EP             ZNE 19 38 09      66
                ESKS           ZNE   48 36

                H  M  S        EPICENTRE    DEPTH  MAG
DEC 03          20 35 46,3     5,5N 127,4E  66KM   5,2  PHILIPPINES
                               H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   EP             Z  20 46 01       62 -1,26                      5,9
                (*PP)          Z        14
          MNW   EP             Z  20 46 04       62
          KRP   EP             Z  20 46 06,5     62 -1,41                      5,7
                (*PP)          Z        20
          MNG   E(P)           Z  20 46 13       64

                H  M  S        EPICENTRE    DEPTH  MAG
DEC 03          20 40 58,3     5,5N 127,4E  70KM   4,8  PHILIPPINES
                               H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   EP             Z  20 51 15       62
          KRP   P              Z  20 51 18       62 -1,15                      6,0
          MNG   EP             Z  20 51 34       64

DEC 04    MSZ   EP             Z  03 14 35
                E(*PP)         Z        51

                H  M  S        EPICENTRE    DEPTH  MAG
DEC 04          07 16 28,6     6,1N 126,9E  66KM   4,7  MINDANAO
                               H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          KRP   EP             Z  07 26 51       63
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  09 58 55,7    19,2S 167,6E   33KM  4,7  NEW HEBRIDES
                                 H  M  S  DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP          Z   10 03 27          20
        COB  EP          Z   10 03 54          22
        MNG E(P)         Z   10 03 56          22

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  10 16 12,0    33,3N 140,7E   66KM  6,6  S. OF HONSHU
                                 H  M  S  DIR DIS LQ=A/T  AZ TZ  AN TN  AE TE  MAG
        NDF   P          Z   10 26 28,2        62
              PCP        Z         34,1
        RAO   P          Z   10 27 41          74
            I            Z         45,2
        AFI   P          ZNE 10 26 49          65
              S          ZNE    35 24
              SS         ZNE    39 28
              SSS        NE     42 28
              LR         ZNE    46
        KRP EIP          ZNE 10 28 05,2USE     78  0,64                      7,6
              *PP        ZNE    32
              PP         ZNE    31 08
              S          ZNE    38 05
              PS         ZNE    39 08
            E            Z   11 15 04
        RAR   EP         ZNE 10 28 08,8        78
              EPCP       ZNE       14,5
              EPP        ZNE    31 10
              ES         ZNE    38 00
              ESS        ZNE    43 06
              ESSS       ZNE    46 45
              EL         ZNE    48 55
        WTZ EIP          Z   10 28 07,0D       79
              *PP        Z         36
              PP         Z      31 11,5
              *SPP       Z      44,5
              S          Z      38 15
        WEL   IP         ZNE 10 28 18,4UNE     81 -0,01                      7,0
              *PP        Z         49
              PP         Z      31 24
            E            ZNE    34 44
              S          ZNE    38 24
        MSZ   P          Z   10 28 24,5        81  0,39                      7,4
              PP         Z      31 30
            (S)          Z      38 33
        CIZ   P          ZNE 10 28 49,8        86
              ES         NE     39 45
        CBZ   P          Z   10 29 00          89
            E(*SP)       ZNE    39
        SBA   EP         ZNE 10 30 50         112
              EPKP       ZNE    34 37,5
              EPP        ZNE    35 21
              EPPP       ZNE    37 50
              ESKS       ZNE    41 20
              ESKS       ZNE       50
              EPS        ZNE    45 00
              ESS        ZNE    51 04
              ESSS       ZNE    55 10
              EL         ZNE 11 02 30

DEC 04  KRP   P          Z   10 43 00,4          -1,36
            E(PCP)       Z         22

DEC 04  KRP   P          Z   10 52 53,5          -1,46

DEC 04  AFI   (P)        Z   10 55 35
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  11 05 31.3   33.2N 140.5E  110KM  4.4  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  EP    Z   11 17 20        78

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  11 09 28.2   33.1N 141.0E   33KM  4.0  E. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  EP    Z   11 21 24        78 -1.59                      5.5

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  11 21 58.0   33.3N 140.7E   79KM  4.8  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P     Z   11 33 50.3      78 -1.31                      5.6
          COB  EP    Z   11 33 59        80

DEC 04    KRP  EP    Z   11 34 44

DEC 04    KRP  EP    Z   11 42 14

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  11 50 38.3   33.2N 140.7E   64KM  5.3  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P     ZNE 12 02 31.8      78 -0.93                      6.1
          COB  P     Z   12 02 40.6      80
          MNG  EP    Z   12 02 43        80
          MSZ  P     Z   12 02 50.1      81

DEC 04    KRP  EP    Z   12 11 04

DEC 04    KRP  EP    Z   12 19 15

DEC 04    KRP  EP    Z   12 21 22

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  12 27 11.9   33.3N 140.5E   88KM  4.2  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  EP    Z   12 39 04        78

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  12 48 33.5   33.3N 140.5E   80KM  4.5  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P     Z   13 00 25.7      78 -1.59                      5.4

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  12 58 07.2   33.3N 140.6E   78KM  4.3  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P     Z   13 09 59.4      78 -1.33                      5.6

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  13 09 20.7   33.2N 140.8E   59KM  4.7  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  EP    Z   13 21 15        78

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04  13 30 53.4   33.2N 140.5E   88KM  4.4  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P     Z   13 42 44.3      78 -1.42                      5.5

DEC 04    KRP  EP    Z   13 47 58

DEC 04    KRP  EP    Z   13 55 05
          GNZ  EP    Z   13 55 28
          MNG  EP    Z   13 55 30
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04   13 49 55,5    33,2N 140,6E   36KM  4,2  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP  EP        Z   14 01 50        78 -1,42                      5,6

DEC 04   MSZ  P         Z   14 16 40,8       -1,21

DEC 04   KRP  EP        Z   14 23 17

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04   14 50 56,8    33,2N 140,6E   59KM  5,3  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP  P         ZNE 15 02 50,9   78 -1,35                      5,7
         COB  EP        Z   15 03 00      80
         MNG  P         Z   15 03 06,5    80
         MSZ  P         Z   15 03 18,3    81 -1,33                      5,7

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04   15 00 22,5    33,1N 140,6E   61KM  5,3  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP  IP        ZNE 15 12 16,7U  78 -0,94                      6,1
         COB  P         Z   15 12 25      80
         MNG  P         Z   15 12 26,9    80
         MSZ  P         Z   15 12 35      81

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04   15 04 33,3     9,9N 127,3E   69KM  4,6  PHILIPPINES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         MSZ  P         Z   15 14 49,4    62
         KRP  EP        Z   15 14 52      63

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04   15 18 46,4    33,2N 140,7E   44KM  4,2  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP E(P)       Z   15 30 41        78

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04   15 42 23,1    23,7S 176,2W  132KM  4,7  S. OF FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO  S         Z   15 44 39        6
         NDF  EP        Z   15 44 22        8
         WTZ  EP        Z   15 45 52       15
         KRP  EP        Z   15 45 59       16
         MNG  EP        Z   15 46 19       18

DEC 04   KRP  EP        Z   15 51 52

DEC 04   KRP  EP        Z   15 58 57

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04   16 21 28,8    30,2S 177,8W   40KM        KERMADEC IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         RAO  IP        Z   16 21 45,7       1
              IS        Z       56,0

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 04   17 40 18,6     6,6S 155,0E   63KM  4,9  SOLOMON IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
         KRP  P         ZE  17 47 19,3   36 -1,04                      5,8
              PCP       Z       49 42
         COB  EP        Z   17 47 32      38
         GNZ  P         ZNE 17 47 33,2    38
         MNG  P         Z   17 47 36,0    39
              EPCP      Z       49 47
         MSZ  P         Z   17 47 47      40
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          H  M  S        EPICENTRE    DEPTH  MAG
DEC 04  17 51 22,4      1,5S 136,7E   33KM  5,0  WEST IRIAN
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          NDF  EP       Z   17 59 25,4       43
          KRP   P       ZNE 18 00 22,8       51 -0,18                      6,8
                PP      ZNE    02 25
                PCS     E      05 39
          COB  EP       Z   18 00 24         51
                PP      Z      02 25
          MSZ   P       Z   18 00 25,1       51 -0,18                      6,8
          MNG   P       Z   18 00 32,5       52 -0,16                      6,9
                PP      Z      02 39
          AFI   IP      ZNE 18 00 35,3U      52 -0,62                      6,4
                S       ZNE    08 12
                SS      ZN     11 48
                LQ      N      14
                LR      ZE     16
          GNZ   P       ZNE 18 00 38,1       53  0,17                      7,2
                (PP)    Z      02 44
          RAR  EP       ZNE 18 02 01         65
          SBA  EP       ZNE 18 03 19         78
               EPP      ZNE    06 13
               ESCS     ZNE    13 20
               EPS      ZNE       52
               ESS      ZNE    18 08
               ELR      ZNE    27 30

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 04  18 13 16,2      33,4N 140,5E   94KM  4,6  S, OF HONSHU
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  EP       Z   18 25 06         78

DEC 04    KRP   P       Z   18 40 41,7
          COB  EP       Z   18 40 50
          MNG E(P)      Z   18 40 52

DEC 04    KRP  EP       Z   19 35 18            -1,15
          MNG  EP       Z   19 35 40

DEC 04    AFI   P       ZNE 20 08 49
                S       ZNE    09 45

DEC 04    KRP  EP       Z   20 12 03
          MNG E(P)      Z   20 12 22

DEC 04    KRP   P       Z   20 35 27,4

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 04  21 38 46,3      22,1S 179,8W 611KM  4,7  S, OF FIJI
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          NDF  EP       Z   21 40 19,3        5
          RAO   P       Z   21 40 33          7
                S       Z      42 08
          AFI   P       ZNE 21 41 10         11
                S       ZNE    43 07
          KRP   P       ZNE 21 42 06,0       16
                S       ZNE    44 53
          MNG  EP       Z   21 42 26         19
               ES       Z      45 26
          COB   P       Z   21 42 38,4       20
                S       Z      45 41
          MSZ  EP       Z   21 43 22         25

DEC 04    KRP  EP       Z   22 16 59

DEC 05    KRP  EP       Z   00 19 21
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DEC 05  KRP   P       Z   00 43 17.1

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  00 48 41.8    5.5N 127.2E  60KM  4.9  PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP E(P)      Z   00 59 05       62
        MNG  EP       Z   00 59 20       64

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  01 57 18.1    5.9N 127.1E  76KM  5.0  PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   02 07 34.3     62 -1.10                      6.0
        KRP   P       Z   02 07 36.5     63

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  02 46 20.7    1.6S 136.6E  33KM  5.4  WEST IRIAN
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       ZE  02 55 21.1     51
        MSZ  EP       Z   02 55 30       51
        MNG   P       Z   02 55 31.8     52
        AFI   S       NE  03 03 04       52
              LQ      N       09
              LR      ZE      11
        GNZ  EP       ZE  02 55 42       53
        SBA  EP       ZNE 02 58 12.5     78
             ES       ZNE 03 08 13

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  03 02 12.7    33.3N 141.0E  33KM  4.2  E. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   03 14 09.0     78

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  04 11 07.0    33.3N 140.8E  53KM  4.7  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       ZE  04 23 02.2     78 -1.10                      5.9
        COB   P       Z   04 23 10.3     80
        MNG  EP       Z   04 23 13       80

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  06 03 07.3    5.8N 127.0E  77KM  5.1  PHILIPPINES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P       Z   06 13 24.7     62
        KRP E(P)      Z   06 13 34       63

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  06 24 20.1    33.3N 141.0E  33KM  4.0  E. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP E(P)      Z   06 36 16       78

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  07 00 10.5    33.2N 140.6E  45KM  4.2  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   07 12 05.5     78 -1.41                      5.7
        COB  EP       Z   07 12 14       80

         H  M  S      EPICENTRE   DEPTH  MAG
DEC 05  10 02 53.3    33.3N 140.9E  60KM  4.8  S. OF HONSHU
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   10 14 49.3     78 -1.21                      5.8
        COB  EP       Z   10 14 58       80
        MNG   P       Z   10 14 59.5     80
        MSZ  EP       Z   10 15 07       81 -1.26                      5.8
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          H  M  S        EPICENTRE    DEPTH  MAG
DEC 05  11 51 45,4    33,4N 140,6E   24KM  5,2  S, OF HONSHU
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP       ZNE 12 03 44        78 -1,15                      6,0
        COB   EP       Z   12 03 56        80
        MNG   EP       Z   12 03 56        80
        MSZ E(P)       Z   12 04 09        82

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 05  14 03 38,3    33,5N 141,2E   55KM  5,2  E, OF HONSHU
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI   S        NE  14 23 00        65
              SSS      E       30 00
              LR       ZN      34
        KRP   EP       ZNE 14 15 31        78 -1,26                      5,8
              *PP      Z       47
            E(S)       E       25 33
        COB   EP       Z   14 15 41        80 -1,13                      5,9
              *PP      Z       57
        MNG   EP       Z   14 15 43        80
              *PP      Z       59
        WEL   EP       ZNE 14 15 44        81
              *PP      ZNE     16 02
              ES       ZNE     25 48
        MSZ   EP       Z   14 15 55        82

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 05  14 37 15,5    34,3S 179,7E   58KM  4,4  S, OF KERMADEC IS
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        RAO   EP       Z   14 38 25         5
              S        Z       39 32

DEC 05  RAO   IP       Z   15 03 37,60
              S        Z       04 19

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 05  15 17 45,7     6,0N 127,7E   44KM  5,2  PHILIPPINES
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   15 28 05        62
        KRP   EP       Z   15 28 07        62

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 05  15 26 49,8     6,0N 126,7E   89KM  4,9  MINDANAO
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   15 37 12,7      63

DEC 05  KRP   P        Z   16 04 53,5
        GNZ   P        ZNE 16 05 06,2
        MNG   EP       Z   16 05 21
        COB E(P)       Z   16 05 24
        MSZ   P        Z   16 06 08,3

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 05  16 48 38,6     6,1N 127,0E   65KM  4,9  PHILIPPINES
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P        Z   16 58 58,2      62
        KRP   P        Z   16 59 07,4      63
        COB   EP       Z   16 59 03        63
        MNW E(P)       Z   16 59 06        63
        MNG E(P)       Z   16 59 13        64

          H  M  S        EPICENTRE    DEPTH  MAG
DEC 05  19 31 29,2    23,6S 175,9W   33KM  5,3  TONGA REGION
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        RAO   EP       Z   19 32 53         6
              S        Z       34 00
        NDF   P        Z   19 33 40,5       9
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      AFI    P        ZNE 19 33 52          10
             S        ZNE    35 37
             T        ZNE    45
      RAR E(P)        ZNE 19 34 49          15
             ET       ZNE    49
      GNZ    EP       Z   19 35 16          16
             S        ZNE    37 55
      KRP    EP       Z   19 35 20          16
      MNG    P        Z   19 35 39.5        18
             S        Z      38 48
      SBA    EP       ZNE 19 40 58.6        55
             ES       ZNE    48 44

       H  M   S       EPICENTRE    DEPTH  MAG
DEC 05 21 59 54.3      1.5S 136.7E  33KM   5.3  WEST IRIAN
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      KRP    P        ZNE 22 08 56.0        51
             PCP      Z      09 49.5
             PP       Z      11 04
      MSZ    P        Z   22 08 58.1        51
             PP       Z      11 06.5
      COB    EP       Z   22 08 56          51
             EPP      Z      11 05
      MNG    P        Z   22 09 04.5        52 -0.91                      6.1
             PP       Z      11 14
      AFI    P        Z   22 09 08          52
             S        NE     16 40
             LQ       NE     22 40
             LR       ZE     25
      RAR    EP       ZNE 22 10 31          65
      SBA    EP       ZNE 22 11 51          75
             ES       ZNE    21 49
             ELR      ZNE    35 50

       H  M   S       EPICENTRE    DEPTH  MAG
DEC 05 22 08 28.9      1.7S 136.6E  33KM   5.3  WEST IRIAN
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      KRP    P        Z   22 17 33.5        51
      MSZ    P        Z   22 17 37          51
      MNG    EP       Z   22 17 45          52
      SBA    EP       ZNE 22 20 24          75

       H  M   S       EPICENTRE    DEPTH  MAG
DEC 05 22 31 46.1      1.5S 136.9E  33KM   5.3  WEST IRIAN
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      SBA    EP       ZNE 22 43 43          75

       H  M   S       EPICENTRE    DEPTH  MAG
DEC 05 23 03 52.2      33.3N 141.0E 43KM   4.2  E. OF HONSHU
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      KRP    P        Z   23 15 48.0        75

       H  M   S       EPICENTRE    DEPTH  MAG
DEC 06 00 31 33.0      4.0S 141.6E  33KM   5.3  NEW GUINEA
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      KRP    EP       Z   00 39 54          46 -1.42                      5.4
      COB E(P)        Z   00 39 57          46
      SBA    EP       ZNE 00 43 11          75

       H  M   S       EPICENTRE    DEPTH  MAG
DEC 06 01 43 24.8      3.0S 139.1E  33KM   5.4  WEST IRIAN
                          H  M   S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
      NDF    EP       Z   01 51 08          40
      KRP    P        ZNE 01 52 05.0        48
             PCP      Z      57
      COB    P        Z   01 52 06.9        49
      MSZ    P        Z   01 52 08.5        49
      MNG    P        Z   01 52 14.8        50
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	AFI	EP		Z	01	52	19			50						
		S		NE		59	28									
		(SCS)		ZN	02	02	20									
		LQ		NE		05										
		LR		Z		06										
	GNZ	P		ZNE	01	52	20,2			50						
		S		Z		53	11,5									
	SBA	EP		ZNE	01	55	12			76						
		ES		ZNE	02	05	00									
		ELR		ZNE		18	35									

	H	M	S	EPICENTRE			DEPTH	MAG								
DEC 06	02	25	40,2	1,5S	136,5E		33KM	4,9	WEST IRIAN							
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	02	34	43		51							
	MSZ	EP		Z	02	34	47		51							
	COB	EP		Z	02	34	47		51							
	MNG	EP		Z	02	34	51		53							
	SBA	EP		ZNE	02	37	39		78							

	H	M	S	EPICENTRE			DEPTH	MAG								
DEC 06	03	41	27,5	1,7S	136,7E		33KM		WEST IRIAN							
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	03	50	22		51							
	COB	E(P)		Z	03	50	29		51							
	MNG	P		Z	03	50	44,1		52							

	H	M	S	EPICENTRE			DEPTH	MAG								
DEC 06	04	03	35,2	33,2N	140,9E		62KM	4,9	S, OF HONSHU							
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		ZNE	04	15	30,0		78	=1,39						5,4
	COB	EP		Z	04	15	55		80							
	MNG	P		Z	04	15	40,5		80							

	H	M	S	EPICENTRE			DEPTH	MAG								
DEC 06	04	10	40,6	23,6S	176,0W		33KM	4,9	S, OF FIJI							
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	S		Z	04	13	11		6							
	AFI	P		Z	04	13	04		10							
		S		ZNE		14	50									
	RAR	EP		ZNE	04	14	01		15							
		ES		ZNE		17	31									
		ET		ZNE		29										
	KRP	EP		Z	04	14	34		16							
	MNG	EP		Z	04	14	49		18							
	SBA	EP		ZNE	04	20	11		55							

	H	M	S	EPICENTRE			DEPTH	MAG								
DEC 06	04	26	01,7	55,7S	28,2W		33KM	5,0	SOUTH SANDWICH IS							
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	04	34	25		46							

	H	M	S	EPICENTRE			DEPTH	MAG								
DEC 06	04	45	22,8	6,0N	127,4E		54KM		PHILIPPINES							
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P		Z	04	55	42,3		62							

	H	M	S	EPICENTRE			DEPTH	MAG								
DEC 06	05	31	44,8	9,2S	67,3E		33KM	5,6	INDIAN OCEAN							
				H	M	S	DIR	DIS	LG,A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	05	44	09		83							
	COB	EP		Z	05	45	07		95							
	MNG	EP		Z	05	45	14		98							
	KRP	P		ZE	05	45	21,4		98							

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	07 42 30.4	33.8N 140.6E	87KM	4.3	S. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 07 54 27		78								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	08 18 06.8	33.1N 141.0E	33KM	4.4	E. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 08 30 04.5		78								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	09 19 32.2	23.8S 179.0E	593KM	4.7	S. OF FIJI							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO IP	Z 09 21 11.0		5								
	NDF P	Z 09 21 12.7		6								
	AFI EP	Z 09 22 12		13								
	S	ZNE 24 33										
	KRP P	ZNE 09 22 35.4		14								
	GNZ P	ZNE 09 22 36.2		15								
	S	ZNE 25 11.7										
	MNG P	Z 09 22 37.8		17								
	S	Z 25 45.9										
	COB EP	Z 09 23 10		18								
	ES	Z 26 04										
	MNW EP	Z 09 24 00		24								
	SBA EP	ZNE 09 28 09.5		54								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	10 23 59.1	6.1N 127.0E	80KM	5.2	PHILIPPINES							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 10 34 16.8		62	-1.21							5.9
	KRP P	Z 10 34 19.4		63	-1.42							5.7
	COB EP	Z 10 34 19		63								
	MNW P	Z 10 34 19		63								
	MNG E(P)	Z 10 34 26		64								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	10 33 41.1	33.3N 140.9E	65KM	4.9	S. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 10 45 35.3		78	-1.26							5.7

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	11 42 48.4	5.5S 154.0E	90KM	4.8	SOLOMON IS							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	ZNE 11 49 58.0		38	-0.78							6.1
	E(*PP)	Z 50 26										
	WTZ P	Z 11 50 04		39								
	*PP	Z 26										
	COB P	Z 11 50 10.2		39	-0.88							5.9
	MNG P	Z 11 50 14.1		40	-0.68							6.1
	MSZ EP	Z 11 50 23		41	-0.86							5.9

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	14 06 34.2	6.1N 127.1E	70KM	4.9	PHILIPPINES							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 14 16 52.9		62								
	KRP P	Z 14 17 07.7		63								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	16 06 31.5	32.6N 141.3E	49KM	4.9	S. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG EP	Z 16 18 35		79								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 06	17 25 01.5	33.8N 140.6E	88KM	4.2	S. OF HONSHU							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 17 36 55		78								

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                H  M   S        EPICENTRE    DEPTH   MAG
DEC 06  19 27 20,4      33,4N 141,1E   33KM  4,3  E, OF HONSHU
                                H  M   S   DIR DIS LG A/T  AZ TZ  AN TN   AE TE   MAG
        KRP     P       Z    19 39 17,6       78

                H  M   S        EPICENTRE    DEPTH   MAG
DEC 06  20 12 08,1      33,2N 140,6E   58KM  5,3  S, OF HONSHU
                                H  M   S   DIR DIS LG A/T  AZ TZ  AN TN   AE TE   MAG
        KRP     P       Z    20 24 03,0       78
        COB     P       Z    20 24 09,8       80
        MNG     P       Z    20 24 12,9       80
        MSZ     EP      Z    20 24 30         81

                H  M   S        EPICENTRE    DEPTH   MAG
DEC 06  22 16 56,2       6,2N 127,2E   68KM  5,0  PHILIPPINES
                                H  M   S   DIR DIS LG A/T  AZ TZ  AN TN   AE TE   MAG
        MSZ     EP      Z    22 27 14         62 -1,21                          5,9
                (PPP)   Z         29
        KRP E(P)        Z    22 27 31         63
        SBA     EP      ZNE  22 29 34         87

DEC 06  AFI     P       Z    23 39 22
                (S)     NE      41 00

                H  M   S        EPICENTRE    DEPTH   MAG
DEC 07  00 14 52,3      33,2N 140,7E   65KM  4,8  S, OF HONSHU
                                H  M   S   DIR DIS LG A/T  AZ TZ  AN TN   AE TE   MAG
        KRP     P       Z    00 26 44         78

                H  M   S        EPICENTRE    DEPTH   MAG
DEC 07  00 54 24,7      33,3N 140,8E   61KM  4,8  S, OF HONSHU
                                H  M   S   DIR DIS LG A/T  AZ TZ  AN TN   AE TE   MAG
        KRP     P       ZN   01 06 19,4      78 -1,21                          5,8
        COB     EP      Z    01 06 28         80
        MNG     P       Z    01 06 30,0       80 -1,36                          5,7

DEC 07  SBA     EP      ZNE  01 37 45
                ES      ZNE      51

                H  M   S        EPICENTRE    DEPTH   MAG
DEC 07  02 14 49,1      20,4S 178,4W  572KM  4,9  FIJI REGION
                                H  M   S   DIR DIS LG A/T  AZ TZ  AN TN   AE TE   MAG
        NDF     P       Z    02 16 18,4        5
        AFI     P       Z    02 16 52          9
                S       ZNE     18 30
        KRP     P       Z    02 18 28         18
        MNG     P       Z    02 18 47,8       21
        COB     EP      Z    02 19 01         22

DEC 07  AFI     P       Z    05 18 21
                S       ZNE      51
                T       ZNE   21 15

                H  M   S        EPICENTRE    DEPTH   MAG
DEC 07  05 22 37,6      33,2N 141,0E   37KM  4,4  E, OF HONSHU
                                H  M   S   DIR DIS LG A/T  AZ TZ  AN TN   AE TE   MAG
        KRP     EP      Z    05 34 32,5       78
                E-PP    Z         45

                H  M   S        EPICENTRE    DEPTH   MAG
DEC 07  05 58 06,7      31,1S 178,9W  173KM  4,8  KERMADEC REGION
                                H  M   S   DIR DIS LG A/T  AZ TZ  AN TN   AE TE   MAG
        RAO     P       Z    05 58 29,8        2
                IS      Z         53
        ECZ     P       Z    05 59 39,9        7
                S       Z    06 01 02
        WTZ     P       Z    05 59 47,7        8
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                S       Z   06 01 14,6
        GNZ     P       ZNE 05 59 49,6      8
                S       ZNE 06 01 19,1
        KRP     P       ZNE 06 00 01,8      8 -1,26
                S       ZNE    01 31,4
        CNZ     EP      Z   06 00 11,8      9
                ES      Z      01 53
        MNG     EP      Z   06 00 20        11
                ES      Z      02 16
        WEL     P       ZNE 06 00 35,4      11
                S       ZNE    02 35,4
        COB     P       Z   06 00 53,3      12
                S       Z      02 54,2
        MSZ     P       Z   06 01 51,1      17 -1,12                        5,2
                S       Z      04 48,4
        AFI     P       Z   06 02 00        18
                S       ZNE    05 04
        RAR     EP      ZNE 06 02 19,8      20
                ES      ZNE    05 46
        SBA     EP      ZNE 06 06 26        47

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 07  06 58 46,5      1,6S 136,4E  33KM   5,1  WEST IRIAN
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ     EP      Z   07 07 51        51
        SBA     EP      ZNE 07 10 41        78

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 07  07 50 08,7      23,6S 175,9W 33KM   4,7  TONGA REGION
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       Z   07 52 30        10
                S       ZNE    54 16
        RAR     EP      ZNE 07 53 31        15
                ET      ZNE 08 08
        MNG     P       Z   07 54 20,8      18
                S       Z      57 37,7

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 07  07 57 11,4      24,3S 175,6W 33KM   4,7  S. OF TONGA
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       Z   07 59 38        11
                S       ZNE 08 01 29
        RAR     EP      ZNE 08 00 34        15
        MNG     P       Z   08 01 19,2      18
              E(S)      Z      04 22,5

DEC 07  NDF     P       Z   09 00 37,0

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 07  09 24 21,9      6,3N 127,1E  73KM   4,5  PHILIPPINES
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ     P       Z   09 34 44,1      63 -1,46                        5,7

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 07  11 41 24,1      2,9S 139,1E  20KM   5,6  WEST IRIAN
                          H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP     P       ZNE 11 50 06,0      48 -0,97                        6,0
              (PCP)     Z      53,2
        COB     P       ZNE 11 50 07,6      49 -0,65                        6,3
        MSZ     P       Z   11 50 09,1      49 -0,79                        6,2
        WEL     P       ZNE 11 50 15,4      50
        MNG     P       Z   11 50 16,3      50 -0,80                        6,2
        AFI     EP      ZNE 11 50 18        50
                S       ZNE    57 28
                SS      ZNE 12 01 00
                LQ      N      03
                LR      ZE     05
        SBA     EP      ZNE 11 53 13        76
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              EPCP    ZNE        26,5
              ES      ZNE 12 03 00
              ESCS    ZNE        22
              ELR     ZNE    18 30

               H  M  S      EPICENTRE    DEPTH  MAG
DEC 07  14 00 49,2     6,0N 127,5E  56KM  5,4  PHILIPPINES
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P       Z    14 11 08,9      62 =1,32                        5,8
        KRP    P       Z    14 11 10,3      62
        SBA    EP      ZNE  14 13 29,5      86

               H  M  S      EPICENTRE    DEPTH  MAG
DEC 07  14 50 15,0     3,7N 128,5E  53KM  5,4  HALMAHERA
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P       Z    15 00 16,7      60
        COB    EP      Z    15 00 18        60
        KRP    P       Z    15 00 19,6      60 =1,21                        6,0
        MNW    E(P)    Z    15 00 27        60
        MNG    P       Z    15 00 26,2      62 =1,31                        5,8
        AFI    ES      ZNE  15 09 00        62
               ELQ     N       16
               ELR     ZE      19
        SBA    EP      ZNE  15 02 40        84

DEC 07  RAR    EP      ZNE  20 12 34
               ET      ZNE     27

               H  M  S      EPICENTRE    DEPTH  MAG
DEC 07  23 37 56,0     35,6N 140,0E  79KM  5,0  E. OF HONSHU
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P       Z    23 50 00,9      80 =1,41                        5,6
        MNG    P       Z    23 50 11,7      83
        MJZ    EP      Z    23 50 19,5      84 =1,35                        5,7

               H  M  S      EPICENTRE    DEPTH  MAG
DEC 08  00 19 30,0     33,4N 140,9E  61KM  4,2  S. OF HONSHU
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P       Z    00 31 25,1      78 =1,33                        5,7
        MNG    P       Z    00 31 36,4      80

               H  M  S      EPICENTRE    DEPTH  MAG
DEC 08  01 33 52,2     20,7S 169,5E  42KM  4,5  NEW HEBRIDES
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    EP      Z    01 38 07        18
               E*PP    Z            17
        GNZ    P       Z    01 38 21,7      19 =0,53                        5,6
        MNG    P       Z    01 38 33,9      20 =1,08                        5,1
               *PP     Z            44
        COB    EP      Z    01 38 35        21
               E(*PP)  Z            46
        SBA    EP      ZNE  01 43 40        37

DEC 08  AFI    P       Z    02 31 50
               S       ZNE     52 22

               H  M  S      EPICENTRE    DEPTH  MAG
DEC 08  04 04 06,6     33,2N 141,4E  46KM  4,8  E. OF HONSHU
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P       Z    04 16 00,3      79
        MNG    EP      Z    04 16 14,2      80

               H  M  S      EPICENTRE    DEPTH  MAG
DEC 08  04 11 42,7     32,5N 141,7E  38KM  5,0  S. OF HONSHU
                            H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    E(P)    Z    04 23 42        77
        MNG    EP      Z    04 23 46        79
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 08  04 50 34,5   24,0S 175,9W   33KM   5,1  S. OF TONGA
                                H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          RAO  EP          Z   04 52 01        6
                S          Z      59
          NDF  EP          Z   04 52 51        9
          AFI   P          Z   04 52 59       11
                S          ZNE    54 52
                LR         ZNE    56
                T          ZNE 05 03 50
          RAR  EP          ZNE 04 53 53,5     15
                ES         ZNE    56 36
                ET         ZNE 05 09
          WTZ   P          Z   04 54 10,4     15
          KRP  EP          Z   04 54 25,6     16
          MNG   P          Z   04 54 39,4     18
                S          Z      57 45
          SBA  EP          ZNE 05 00 04,5     55

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 08  06 17 26,4   23,4S 176,0W   33KM   4,5  S. OF FIJI
                                H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   P          Z   06 19 48       10
                S          ZNE    21 31
          RAR  EP          ZNE 06 20 48,5     15
                ES         ZNE    23 40
          MNG  EP          Z   06 21 39,5     19

DEC 08  RAR  EP          ZNE 06 34 51

DEC 08  RAR  EP          ZNE 06 41 19,5

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 08  06 41 32,2   23,7S 175,7W   33KM   5,0  TONGA REGION
                                H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          RAO  EP          Z   06 42 56        6
                S          Z      44 03
          NDF  EP          Z   06 43 45        9
          AFI   P          Z   06 43 54       10
                S          ZNE    45 45
          RAR  EP          ZNE 06 44 50,7     15
                ES         N      47 35
                ET         ZNE 07 00
          GNZ   P          ZNE 06 45 13,1     16
                S          ZNE    47 59
          KRP   P          Z   06 45 20,8     16
          MNG   P          Z   06 45 41,9     18 -1,64                        4,5
                S          Z      48 52
          SBA  EP          ZNE 06 51 02       55

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 08  07 48 42,0    1,9S  99,7E   33KM   5,5  S. SUMATRA
                                H  M  S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P          Z   08 00 10,3      73 -1,33                        5,7
          MJZ  EP          ZNE 08 00 20       75
          COB   P          Z   08 00 28,1     76
          MNG   P          Z   08 00 39,8     78
          KRP   P          ZNE 08 00 41,0     79 -1,22                        5,9
          GNZ   P          ZNE 08 00 48,2     80
          SBA  EP          ZNE 08 01 08,5     83
                ES         ZNE    11 29
                EPS        ZNE    12 30
          AFI   P          Z   08 01 34       85
                ES         NE     12 12
                ELQ        N      27
                ELR        ZE     30
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                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  09 12 55.9      6.1N 127.9E   74KM  5.1  PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    P          Z    08 23 13.1       62 -1.26                    5.9
          KRP    P          ZE   08 23 15.5       63 -1.15                    6.0
          MNG E(P)          Z    08 23 21         64
          GNZ    P          ZNE  08 23 28.4       65
          SBA    EP         ZNE  08 25 33         87

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  08 48 14.0      1.9S  99.7E   33KM  5.3  S. SUMATRA
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MNG    EP         Z    09 00 12         78
          KRP    EP         Z    09 00 13         78
          SBA    EP         ZNE  09 00 45         83

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  09 15 36.6      5.9N 127.2E   90KM  5.0  PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    P          Z    09 25 52.6       62
          KRP    P          Z    09 25 53.4       63
          MJZ E(P)          Z    09 25 54.5       63

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  09 35 33.9      33.1N 141.0E  18KM  4.9  E. OF HONSHU
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P          Z    09 47 33.2       78 -1.21                    5.9

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  10 18 12.8      5.7N 127.4E   64KM  5.0  PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    P          Z    10 28 36.9       62 -0.96                    6.2
          KRP    P          Z    10 28 39.3       62
          MNW    P          Z    10 28 41.0       63 -1.21                    5.9
          MJZ    EP         Z    10 28 42         63
          MNG    P          Z    10 28 43.8       64

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  10 33 10.2      5.8N 127.5E   60KM  4.5  PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    EP         Z    10 43 34         62

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  10 39 04.9      5.8N 127.4E   73KM  4.6  PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    P          Z    10 49 22.9       62 -1.32                    5.8

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  13 12 57.0      6.1N 127.1E   66KM  5.0  PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    P          Z    13 23 16.4       62 -1.46                    5.7

DEC 08    AFI    P          Z    13 45 20

DEC 08    AFI    P          Z    15 02 45
                 S          ZNE     03 05
                 T          ZNE     05 10

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 08  16 55 40.4      7.2N 127.1E   57KM  5.4  PHILIPPINES
                              H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    EP         Z    17 06 08         63
          KRP    EP         Z    17 06 09         64
          MJZ E(*PP)        Z    17 06 30         64
          AFI    (PPP)      ZN   17 10 16         64
                 ES         ZNE     15 00
                 ELR        ZNE     26
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      SBA  EP      ZNE 17 08 30        88

       H  M  S      EPICENTRE    DEPTH  MAG
DEC 08 18 02 23,5   21,4S 179,2W 605KM  5,4  FIJI REGION
                       H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
      RAQ   P      Z   18 04 17       9
         IS        Z      05 33,3
      AFI  IP      ZNE 18 04 39  U    10
         S         ZNE    06 27
      ECZ   P      Z   18 05 45,0      16
      WTZ EIP      Z   18 05 45,4      17
      GNZ   P      ZNE 18 05 50,4      17  0,43                          6,8
         S         ZNE    08 39
      KRP  IP      ZNE 18 05 51,3D     17 -0,07                          6,3
         S         ZNE    08 42
      MNQ  IP      Z   18 06 10,7U     20
         S         Z      09 21,3
      WEL  IP      ZNE 18 06 19,2D     20
         ES        ZNE    09 38
      COB   P      Z   18 06 22,5      21 -0,38                          6,1
         S         Z      09 34
      CIZ  EP      Z   18 06 43        23
      MJZ   P      ZNE 18 06 51,6      24
         ES        ZNE    09 53
      MSZ   P      Z   18 07 07,1      26
      MNW  IP      Z   18 07 16,0D     27 -0,40                          6,1
      SBA  IP      ZNE 18 11 14,2      37
           EPP     ZNE    13 09
           ESCP    ZNE    15 05,5

       H  M  S      EPICENTRE    DEPTH  MAG
DEC 08 18 13 02,9   1,9S  99,8E  20KM  5,8  S. SUMATRA
                       H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
      MSZ E(P)     Z   18 24 37        73
      WEL E(P)     Z   18 25 06,1      77
         S         NE     34 45
      NDF  IP      Z   18 24 55,9      78
         ES        Z      31 03
      KRP   P      ZNE 18 25 01,7      78
           PP      Z      28 01
      MNQ   P      Z   18 25 01,7      78
      GNZ   P      ZNE 18 25 16,7      80
      SBA  EP      ZNE 18 25 31        83
         ES        ZNE    35 53
      AFI   P      Z   18 25 57        88 -0,61                          6,7
         S         NE     36 46
         SS        NE     42 36

       H  M  S      EPICENTRE    DEPTH  MAG
DEC 08 19 38 56,7   6,1N 127,0E  73KM  5,1  PHILIPPINES
                       H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
      MSZ   P      Z   19 49 24,5      62

       H  M  S      EPICENTRE    DEPTH  MAG
DEC 08 20 17 12,9   5,7N 127,3E  53KM  5,4  PHILIPPINES
                       H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
      MSZ   P      Z   20 27 28,9      62 -1,16                          6,0
      KRP  EP      Z   20 27 36        62
           *PP     Z          48
      MNW   P      Z   20 27 31,8      63
      MJZ   P      Z   20 27 34,5      63 -1,31                          5,8

       H  M  S      EPICENTRE    DEPTH  MAG
DEC 08 20 43 16,0   5,7N 127,4E  65KM  5,3  PHILIPPINES
                       H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
      MSZ   P      Z   20 53 33,3      62 -1,16                          6,0
      COB  EP      Z   20 53 37        62
           *PP     Z          48
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        AFI  E(*PP)    Z   20 53 56        63
        MNG  P         Z   20 53 38,7      64

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 09  00 07 45,8     5,6N 127,4E  68KM   5,1  PHILIPPINES
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P         Z   00 18 00,7      62 -1,16                       6,0
        KRP  (*PP)     Z   00 18 17,8      62
        MNW  P         Z   00 18 04,0      62
        MJZ  P         Z   00 18 07,1      63 -1,36                       5,8

DEC 09  NDF  IP        Z   01 34 04,1

DEC 09  RAO  IP        Z   02 47 16,40
             IS        Z       28

DEC 09  AFI  P         Z   04 39 56
             S         ZNE     40 24

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 09  06 03 41,3     7,3N 126,8E  92KM   5,0  MINDANAO
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P         Z   06 14 18,2      64
        MJZ  EP        Z   06 14 23,8      64

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 09  06 06 07,6     33,1N 140,8E 51KM   5,3  S. OF HONSHU
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        KRP  P         ZNE 06 18 02,1      78 -1,10                       6,0
        MNG  P         Z   06 18 13,6      80
        MSZ  P         Z   06 18 22,8      81
        MJZ  P         Z   06 18 20,9      81

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 09  06 27 47,6     7,4N 126,8E  85KM   4,6  MINDANAO
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P         Z   06 38 25,0      64 -1,38                       5,7
        MJZ  EP        Z   06 38 29        65
        MNG  EP        Z   06 38 39        65

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 09  07 27 49,0     7,2N 126,8E  93KM   5,1  MINDANAO
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P         Z   07 38 26,1      64
        MJZ  P         Z   07 38 31,2      64

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 09  12 55 47,5     7,4N 126,9E  66KM   5,2  MINDANAO
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  P         Z   13 06 14,8      64 -1,12                       6,0
        KRP  EP        Z   13 06 29,5      64
        MNW  E         Z   13 06 31,7      64
        AFI  ES        ZE  13 15 00        64
             ELR       ZNE     26
        MJZ  P         Z   13 06 22,6      65 -1,36                       5,7
        MNG  P         Z   13 06 30,1      65

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 09  13 25 33,9     6,2N 127,3E  44KM   5,3  PHILIPPINES
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ  EP        Z   13 35 55          62 -1,38                     5,8
        KRP  EP        Z   13 35 57          63

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 09  14 54 16,3     33,2N 140,5E 54KM   4,3  S. OF HONSHU
                          H  M  S  DIR DIS LGmA/T  AZ TZ  AN TN  AE TE  MAG
        KRP  P         Z   15 06 28,9      78
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                H  M  S        EPICENTRE     DEPTH  MAG
DEC 09  16 07 27.0      33.2N 140.8E   47KM  4.2  S. OF HONSHU
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z  16 19 23.4      78

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 09  16 14 22.2      5.9N 127.3E   68KM  4.4  PHILIPPINES
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P        Z  16 24 42.9      62

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 09  23 08 18.6      33.4N 140.9E   61KM  4.6  S. OF HONSHU
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z  23 20 12.8      78 -1.33                        5.7

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 10  00 31 15.9      33.2N 140.8E   93KM  4.3  S. OF HONSHU
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z  00 43 10.7      78

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 10  03 35 48.2      43.1N 141.9E  172KM  5.1  HOKKAIDO
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP        Z  03 48 15.6      86
        COB  E(P)       Z  03 48 24        88
        MNQ    P        Z  03 48 24.9      89 -1.42                        5.6
        MJZ    P        Z  03 48 34.8      90 -1.50                        5.6
        MSZ    P        Z  03 48 35.3      91

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 10  04 26 57.7      49.8N  78.1E    0KM  5.7  E. KAZAKHSTAN
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   PKP       Z  04 45 53.9      122
        MSZ   PKP       Z  04 45 54.8      122
        COB  EPKP       Z  04 45 54.4      123
        MJZ   PKP       ZNE 04 45 57.6     123
        MNQ   PKP       Z  04 45 56.7      124
        GNZ  EPKP       Z  04 45 58.9      124

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 10  04 27 08.4      50.1N  78.8E    0KM       E. KAZAKHSTAN
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   PKP       ZNE 04 46 02.9     122
        COB   PKP       Z  04 46 03.2      122
        MJZ   PKP       ZNE 04 46 06.2     123
        MSZ   PKP       Z  04 46 03.5      122
        MNQ   PKP       Z  04 46 05.2      124
        GNZ  EPKP       ZE 04 46 07.0      124

                H  M  S        EPICENTRE     DEPTH  MAG
DEC 10  07 98 35.5      23.9S 175.8W   33KM  5.1  TONGA REGION
                           H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    P        Z  07 59 59          6
               S        Z  08 01 04
        NDF   EP        Z  08 00 48          9
        AFI    P        ZNE 08 01 00        11
               S        ZNE   02 47
        GNZ   EP        Z  08 02 22         16
        KRP   EP        Z  08 02 25         16
        SBA   EP        ZNE 08 08 06        55

DEC 10  AFI  E(P)       Z  13 03 41
               S        ZNE   05 15
        WTZ    P        Z  13 05 14.7
        KRP    P        Z  13 05 19.4
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	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 10	18	26	07,1	44,8N	149,4E	13KM	6,0	KURIL IS								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		EP	Z	18	37	20		68							
			S	ZNE		46	12									
			SS	ZN		50	24									
			SSS	ZNE		53	40									
			EL	ZNE		57										
	RAR		ELR	ZNE	19	02	30		80							
	KRP		P	ZNE	18	38	48,4		86	-1,04						6,2
			PCP	ZNE		39	02,0									
			SKS	E		49	38									
	COB		P	Z	18	38	58,9		88							
	MNG		P	Z	18	38	59,1		88							
			PCP	Z		39	13,4									
	WEL		P	Z	18	39	01,9		89							
			PCP	Z		15,4										
	MJZ		P	ZNE	18	39	11,6		90	-1,13						6,3
			PCP	ZNE			25,2									
	MSZ		P	Z	18	39	13,1		91	-1,21						6,2
			PCP	Z			27,3									
	SBA		IPKP	ZNE	18	45	03,2		123							
			EPP	ZNE		46	53									
			EPS	ZNE			46									
DEC 10	AFI		P	ZNE	21	54	48									
			S	ZNE		55	21									

	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 10	22	08	48,4	18,4S	177,9W	609KM	4,6	FIJI REGION								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF		IP	Z	22	10	19,4		4							
	AFI		P	ZNE	22	10	42		7							
			S	ZNE		12	13									
	RAR		EP	ZNE	22	12	18,5		17							
	WTZ		P	Z	22	12	42,0		20							
	KRP		EP	Z	22	12	46,3		20							
	GNZ		EP	Z	22	12	48		20							

	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 10	22	49	00,0	23,7S	175,9W	33KM	4,3	TONGA REGION								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		EP	Z	22	50	24		6							
			ES	Z		51	33									
	AFI		P	Z	22	51	22		10							
			S	ZNE		53	15									
	RAR		EP	ZNE	22	52	21		15							
			ET	ZNE	23	07										

	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 11	00	15	51,5	1,5S	136,6E	33KM	5,1	WEST IRIAN								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	00	24	53,7		51							
	MSZ		P	Z	00	24	54,9		51							
			*PP	Z		25	04									
	MJZ		P	Z	00	25	01		52							
	SBA		EP	Z	00	27	49		78							

	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 11	01	13	25,8	1,6S	136,7E	33KM	5,0	WEST IRIAN								
					H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	01	22	26,9		51							
	MSZ		P	Z	01	22	28,9		51							
	SBA		P	ZNE	01	25	24,0		78							

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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  01 34 49,6     1,9S  99,6E   33KM  5,1  S, SUMATRA
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP E(P)       Z    01 46 48        78
          SBA  EP        ZNE  01 47 25        83

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  01 52 24,8     9,4S 149,9E   35KM  4,8  NEW GUINEA
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P        Z    01 59 29,0      37
          SBA  EP        ZNE  02 03 25        69

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  02 37 04,9     4,8N 125,7E   33KM  5,5  S, OF MINDANAO
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P        Z    02 47 24,3      62 -1,16                        6,0
          KRP   P        Z    02 47 28,9      63
          MJZ   P        Z    02 47 31,8      63

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  02 55 11,6     6,3S 149,2E   65KM  4,4  NEW BRITAIN
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  (*PP)     Z    03 02 40,6      40

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  03 19 46,9     56,9S  26,5W   33KM  4,8  SOUTH SANDWICH IS
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          SBA   P        ZNE  03 28 14,5      46

DEC 11    SBA   P        Z    03 33 22

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  04 59 32,6     5,6N 126,4E   74KM  4,8  MINDANAO
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P        Z    05 09 54,9      62
          COB  E*PP      Z    05 10 06        63
          MJZ   P        ZNE  05 09 55,6      63
          KRP   P        Z    05 09 56,0      63
          MNW   P        Z    05 10 01,5      63
          MNG   P        Z    05 10 03,2      64
          SBA  E*PP      ZNE  05 12 22        86

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  05 59 56,9     33,4N 140,4E  55KM  4,7  S, OF HONSHU
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P        Z    06 11 52,0      78 -1,03                        6,0
          MNG   P        Z    06 12 02,8      80
          MJZ   P        Z    06 12 10,2      82 -1,42                        5,7

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  07 21 11,0     16,1S 177,7W  20KM  4,6  FIJI REGION
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   P        Z    07 22 41         6
                S        ZNE     23 50
          WTZ   P        Z    07 26 14        22
          KRP  EP        Z    07 26 11,5      23

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 11  08 33 35,4     62,6S 165,9E  33KM  5,8  BALLENY IS
                                 H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          CBZ  EP        Z    08 35 57        10
          SBA   P        ZNE  08 37 09,8      15  0,14                        6,2
                E        Z            38
                S        ZNE     40 52                    16 32  12 28  13 24  6,6
              EPCP       Z       42 29
              ESCS       Z       50 09
          MNW   P        Z    08 37 33,2      17
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	MSZ	P	Z	08	37	46.2	15										
	MJZ	P	ZNE	08	37	55.1	19										
	CIZ	E(P)	ZNE	08	38	31	21										
	COB	P	Z	08	38	28.0	22										
	MNG	IP	Z	08	38	37.3U	23	-0.80									5.5
	KRP	P	ZNE	08	39	01.6	25										
	RAR	ES	ZNE	08	47	44	48										

	H	M	S	EPICENTRE			DEPTH	MAG									
DEC 11	08	39	40.3	16.2S		177.5W	20KM	4.8	FIJI REGION								
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP		Z	08	40	47		5								
	AFI	P		Z	08	41	10		6								
		S		ZNE		42	16										
	WTZ	P		Z	08	44	39.8		22								
	KRP	P		ZNE	08	44	41.6		22								

DEC 11	NDF	P		Z	09	38	18.6										

	H	M	S	EPICENTRE			DEPTH	MAG									
DEC 11	11	17	50.7	5.5N		126.5E	62KM	4.2	MINDANAO								
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P		Z	11	28	16.4		62	-1.46							5.7

	H	M	S	EPICENTRE			DEPTH	MAG									
DEC 11	13	17	12.7	20.3S		176.2W	148KM	4.7	FIJI REGION								
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P		ZNE	13	19	02		8								
		S		ZNE		20	19										
	RAO	P		Z	13	19	21		9								
		S		Z		21	03										
	RAR	EP		ZNE	13	20	43		15								
	WTZ	P		Z	13	21	20.4		19								
	GNZ	P		Z	13	21	25.5		19								
	KRP	P		ZNE	13	21	25.8		19								
	MNG	P		Z	13	21	46.6		21								
		S		Z		24	29										
	WEL	EP		Z	13	21	57		22								
	COB	EP		Z	13	22	05		23								
	MSZ	E(P)		Z	13	22	50		28								
	SBA	P		Z	13	26	53.0		58								

	H	M	S	EPICENTRE			DEPTH	MAG									
DEC 11	17	29	21.7	33.2N		140.4E	67KM	4.9	S. OF HONSHU								
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z	17	41	16.4		78								
		*PP		Z			33										
	MNG	EP		Z	17	41	26		80								

	H	M	S	EPICENTRE			DEPTH	MAG									
DEC 11	18	06	19.5	61.9S		163.2E	33KM	5.1	BALLENY IS								
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	P		ZNE	18	10	03.7		16								
		ES		ZNE		14	02										
	MSZ	P		Z	18	10	28.1		17								

DEC 12	RAO	P		Z	03	09	42.3U										
		S		Z		10	35										

	H	M	S	EPICENTRE			DEPTH	MAG									
DEC 11	04	54	38.4	6.3N		126.9E	70KM	5.1	MINDANAO								
					H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P		Z	05	05	02.8		63								
	KRP	EP		Z	05	05	03		63								
	MNW	P		Z	05	05	06.0		63								
	MJZ	P		ZNE	05	05	05.2		64								
	MNG	P		Z	05	05	08.7		65								

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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 12  05 39 20,4    22,9S 176,3W   70KM  5,0  S OF FIJI
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          NDF  EP       Z   05 41 20,0      8
          AFI  EP       Z   05 41 36        10
                S       ZNE    43 14
          RAR  EP       ZNE 05 42 46        15
               ET       ZNE    57
          MNG  P        Z   05 43 32,8      19

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 12  05 52 22,7    12,5N 143,8E    6KM  5,9  CAROLINE IS
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P        Z   06 02 20,3      58
          MNQ  P        Z   06 02 33,4      60
          MSZ  P        Z   06 02 40,4      61 -1,21                        6,0

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 12  09 03 56,4    44,1N 151,0E   38KM  5,7  KURIL IS
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P        Z   09 16 29,4      85 -1,28                        5,9
          MNQ  P        Z   09 16 39,3      87
          SBA  EPKP     ZNE 09 22 48       122

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 12  10 50 26,1    33,3N 140,7E   83KM  5,2  S. OF HONSHU
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          KRP  P        Z   11 02 17,4      78
               *PP      Z          31,2
          MNG  EP       Z   11 02 29        80

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 12  16 45 30,5     1,9S  99,7E   92KM  4,6  S. SUMATRA
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MNG E(P)      Z   16 57 51        78

DEC 12    RAO  P        Z   17 34 10,1U
               S        Z          40
          KRP  P        Z   17 35 35,7
          ECZ  S        Z   17 36 33,0
          WTZ  P        Z   17 35 22,2
               ES       Z      36 48,3
          GNZ  P        ZNE 17 35 24,4
               S        ZNE    36 48,5
          MNG  P        Z   17 35 55
               S        Z      37 52

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 12  17 46 47,8     6,5N 126,5E    3KM  5,3  MINDANAO
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  P        Z   17 57 23,6      63 -1,16                        6,1
               EP       Z          26,4
          KRP  P        Z   17 57 27,3      63
          MNW  EP       Z   17 57 29        64
          MNG  EP       Z   17 57 35        65
          SBA  EP       ZNE 17 59 37        87

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 12  18 00 41,8     6,7N 126,5E   41KM  5,4  MINDANAO
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MSZ  P        Z   18 11 08,9      63
          MJZ  P        Z   18 11 10,2      64
               *PP      Z          20
          MNW  EP       Z   18 11 13,7      64
          SBA  EP       ZNE 18 13 26,5      87
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	H	M	S	EPICENTRE			DEPTH	MAG							
DEC 12	19	48	29,1	23,4S	179,9W		491KM	4,6	S. OF FIJI						
				H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P	Z	19	50	10,3	6								
			S	Z		51	20									
	AFI		P	Z	19	51	08	12								
			S	ZNE		53	16									
	ECZ		P	Z	19	51	32,9	14								
	WTZ		P	Z	19	51	40,1	15								
			ES	Z		54	15									
	KRP		P	ZNE	19	51	41,6	15								
			S	ZNE		54	24,4									
	GNZ		EP	ZNE	19	51	43	15	=0,42							6,1
			S	ZNE		54	23,8									
	CNZ		P	Z	19	51	54,1	16								
			S	Z		54	44,9									
	TNZ		P	Z	19	51	59,2	16								
	MNG		P	Z	19	52	03,6	18								
			S	Z		54	59,1									
	WEL		P	ZNE	19	52	13,4	18	=0,68							5,8
			S	ZNE		55	14,1									
	COB		P	Z	19	52	17,0	19	=0,93							6,0
			S	Z		55	19,4									
	MJZ		EP	Z	19	52	47	22								
	MSZ		P	Z	19	53	00,4	23								
	SBA		EP	ZNE	19	57	15	55								

	H	M	S	EPICENTRE			DEPTH	MAG							
DEC 12	22	08	29,5	23,8S	175,4W		40KM	4,8	TONGA REGION						
				H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO		P	Z	22	09	54	6								
			S	Z		10	58									
	AFI		P	Z	22	10	50	10								
			S	ZNE		12	40									
	RAR		EP	ZNE	22	11	49	15								

	H	M	S	EPICENTRE			DEPTH	MAG							
DEC 13	04	41	18,5	17,4S	178,8W		610KM	4,4	FIJI REGION						
				H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI		P	Z	04	43	03	8								
			S	ZNE		44	35									
	RAO		P	Z	04	43	54	12								
	CRZ		P	ZNE	04	45	02,0	19								
	GBZ		P	Z	04	45	06,3	19								
	WTZ		P	Z	04	45	17,9	21								
	KRP		P	ZNE	04	45	22,4	21								
	GNZ		P	ZNE	04	45	23,4	21								
	MNG		P	Z	04	45	41,0	24								
	WEL		EP	Z	04	45	49	24								
	COB		EP	Z	04	45	53	25								
	MJZ		EP	Z	04	46	23	28								
	MSZ		P	Z	04	46	35,1	29								
	MNW		EP	Z	04	46	44	30								

	H	M	S	EPICENTRE			DEPTH	MAG							
DEC 13	06	29	55,6	33,3N	141,0E		41KM	4,2	E. OF HONSHU						
				H	M	S	DIR	DIS	LG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	06	41	52,0	78								
	MNG		E(P)	Z	06	42	03	80								
	MSZ		P	Z	06	42	09,9	81								
DEC 13	AFI		P	Z	07	54	34									
			S	ZNE		55	23									

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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 13  11 07 00,4   57,4S  30,3W   33KM  5,1  SOUTH SANDWICH IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA  EP        ZNE 11 15 09        45

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 13  15 23 07,0   18,0N 145,6E  203KM  4,9  MARIANA IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P        Z   15 33 09,8      62 -1,21                    5,6
          COB   P        Z   15 33 19,1      64
          GNZ   P        Z   15 33 19,4      64
          MNG   P        Z   15 33 21,3      65
          MSZ   P        Z   15 33 30,2      66
          MJZ   P        Z   15 33 30,5      66

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 13  16 02 08,3   51,6N 175,3E   33KM  5,1  ALEUTIAN IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP  EP        Z   16 15 07        89

DEC 13    NDF  EP        Z   17 16 24

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 14  08 38 09,1   19,7S 178,1W  448KM  4,8  FIJI REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   P        ZNE 08 39 58         8
                S        ZNE    41 26
          RAO   P        Z   08 40 14        10
                E        Z      41 50
                S        Z         58
          CRZ   P        Z   08 41 41,6      17
          WTZ   P        Z   08 41 56,1      19
                S        Z      45 10
          KRP   P        ZNE 08 42 00,9      19 -0,96                    5,4
          GNZ   P        ZN  08 42 02,2      19
                S        ZNE    45 18,9
          TNZ   EP       Z   08 42 16        20
          MNG   P        Z   08 42 21,7      22
                S        Z      45 53
          WEL   EP       Z   08 42 29        22
          COB   P        Z   08 42 34,6      23
          MJZ   EP       Z   08 43 04        26
                (*PP)    Z      44 18
          SBA   EP       ZNE 08 47 24        59

DEC 14    NDF   IP       Z   08 39 20,9
                S        Z      40 39
          MSZ   P        Z   08 43 19,2
          MNW   EP       Z   08 43 26

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 14  08 41 55,3   33,5N 140,4E   68KM  5,2  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P        Z   08 53 50,3      78

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 14  11 20 45,3    5,6N 126,6E    65KM  4,7  MINDANAO
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P        Z   11 31 04,7      62

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 14  13 22 43,5   33,6S 179,0W   33KM        S. OF KERMADEC IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   P        Z   13 23 49         4
                S        Z      24 44,7
          SBA   EP       ZNE 13 30 57        45
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          H  M  S        EPICENTRE     DEPTH  MAG
DEC 14  13 31 10.5    33.7S 179.7W     31KM        S. OF KERMADEC IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          RAO   P          Z    13 32 21        5
                S          Z       33 09.9

DEC 14    AFI   P          ZNE 16 40 04
                S          ZNE    36

          H  M  S        EPICENTRE     DEPTH  MAG
DEC 14  17 21 48.2    57.3S  25.5W     58KM  5.2  SOUTH SANDWICH IS
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          SBA   EP         ZNE 17 29 59       45
          MNW   (*PP)      Z   17 35 50       77
          MSZ   P          Z   17 33 40.9     78
                *PP        Z       57
          MNQ   P          Z   17 33 56.2     81
          KRP   P          ZNE 17 34 10.3     83 -1.26                        5.9
                *PP        Z       26

          H  M  S        EPICENTRE     DEPTH  MAG
DEC 14  20 08 06.5    19.2S 168.7E     42KM  4.8  NEW HEBRIDES
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   (P)        ZE  20 12 33       19
          MNQ   EP         Z   20 13 00.5     22
          MSZ   E(P)       Z   20 13 22.5     25
          MJZ   P          Z   20 13 26.1     25
          SBA   EP         ZNE 20 18 02       59

          H  M  S        EPICENTRE     DEPTH  MAG
DEC 14  20 49 34.8     1.3S  89.3E     33KM  5.4  S. INDIAN OCEAN
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          MSZ   P          Z   21 01 49.0     81
          MJZ   EP         Z   21 02 03       83
          COB   E(P)       Z   21 02 08       84
          MNQ   P          Z   21 02 14.7     86
                *PP        Z       24
          SBA   EP         ZNE 21 02 16       86
          KRP   P          Z   21 02 24.1     86 -1.26                        6.0

          H  M  S        EPICENTRE     DEPTH  MAG
DEC 15  01 51 58.3    33.2N 140.8E     54KM  5.1  S. OF HONSHU
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P          Z   02 03 52.9     79
                *PP        Z       04 10
          COB   P          Z   02 04 01.5     80
          MNQ   P          Z   02 04 03.4     80
                *PP        Z       20
          MSZ   P          Z   02 04 11.2     81

          H  M  S        EPICENTRE     DEPTH  MAG
DEC 15  05 52 15.0    29.2S 112.2W     33KM  4.7  NEAR EASTER I.
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          AFI   S          ZNE 06 10 00       57
                LR         ZNE    18

          H  M  S        EPICENTRE     DEPTH  MAG
DEC 15  06 15 20.1    33.3N 141.3E     35KM  5.2  E. OF HONSHU
                                 H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
          KRP   P          ZE  06 27 17.9     78 -1.21                        5.9
                *PP        Z       27
          COB   P          Z   06 27 26.1     79
          MNQ   P          Z   06 27 28.1     80
                *PP        Z       37
          MSZ   EP         Z   06 27 27.8     81
```

	H M S	EPICENTRE	DEPTH	MAG										
DEC 15	08 17 18.7	6.3N 127.0E	64KM	4.8	PHILIPPINES									
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ P	Z 08 27 39.8		63										
	*PP	Z 52												
	MNW EP	Z 08 27 47		63										
	MJZ P	Z 08 27 45.0		64										
	*PP	Z 58												
	MNQ EP	Z 08 27 50		64										

	H M S	EPICENTRE	DEPTH	MAG										
DEC 15	09 19 34.5	6.3N 127.1E	89KM	4.3	PHILIPPINES									
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ EP	Z 09 30 07		63										
DEC 15	RAO IP	Z 09 35 29.9												
	IS	Z 34.0												
DEC 15	AFI P	Z 09 43 15												
	S	ZNE 45 10												
	MNQ P	Z 09 44 31.2												
	S	Z 47 35												

	H M S	EPICENTRE	DEPTH	MAG										
DEC 15	10 48 12.3	6.0N 127.1E	74KM		PHILIPPINES									
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ E(P)	Z 10 58 22		62										
DEC 15	AFI P	Z 17 29 47												
	(S)	ZNE 30 50												
DEC 15	AFI (P)	Z 18 49 30												
	S	ZNE 51 00												
DEC 16	AFI P	Z 00 47 44												
	S	ZNE 48 30												

	H M S	EPICENTRE	DEPTH	MAG										
DEC 16	02 22 29.8	32.6N 141.3E	33KM	5.0	S. OF HONSHU									
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP P	Z 02 34 38.2		77										
	MNQ EP	Z 02 34 39		79										

	H M S	EPICENTRE	DEPTH	MAG										
DEC 16	04 05 49.2	17.8S 178.6W	557KM	5.0	FIJI REGION									
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI P	ZNE 04 07 43		8										
	S	ZNE 09 15												
DEC 16	AFI IP	ZNE 08 14 52.5U												
	S	ZNE 15 15												

	H M S	EPICENTRE	DEPTH	MAG										
DEC 16	11 30 18.6	7.0S 155.8E	79KM	5.8	SOLOMON IS									
		H M S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	NDF IP	Z 11 35 25.0		24										
	CRZ P	ZNE 11 36 34.5		31										
	AFI IP	ZNE 11 36 44		33	-0.26									6.6
	SS	NE 44 00												
	LR	ZE 46												
	RAO P	Z 11 36 49		33										
	KRP P	ZNE 11 37 11.3		36	-0.21									6.7
	PCP	Z 39 38												
	GNZ P	ZNE 11 37 24.7		37	0.22									7.1
	ES	NE 43 14												
	CO9 P	Z 11 37 24.9		37										
	S	Z 39 41												

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        MNG   IP        Z   11 37 27,0J     38 =0,53                    6,3
              PCP       Z      39 43
              S         Z      43 27
        WEL   P         Z   11 37 30,9      38
        MJZ   P         ZNE 11 37 40,2      39
              PCP       ZNE    39 49
        MSZ   P         Z   11 37 40,4      39
              PCP       Z      39 49
        CIZ   EP        Z   11 38 22        44
        RAR   EP        ZNE 11 38 29,5      45
        SBA   EP        ZNE 11 41 29        71
              ES        ZNE    50 48
              ESS       ZNE    55 30
              ELR       ZNE 12 03 40

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 16  13 35 58,1   10,7S 166,2E 172KM  4,9  SANTA CRUZ IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P         Z   13 41 43,6        28
        WTZ   P         Z   13 41 43,1        29
        GNZ   P         ZNE 13 41 50,0        30
        MNG   P         Z   13 42 00,2        31
        COB   P         Z   13 42 01,3        31
        MJZ   P         ZNE 13 42 22,9        33
        MSZ   P         Z   13 42 26,5        34

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 16  16 23 58,2   16,7S 171,7W  63KM  5,0  SAMOA REGION
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP        ZNE 16 24 34,3DSE   3
              S         ZNE    25 03
        RAR   EP        ZNE 16 26 42        12
        WTZ   EP        Z   16 29 08        23
              *PP       Z      21
              S         Z      33 27
        GNZ   P         ZNE 16 29 12,1      24
              *PP       ZNE    25
              ES        ZNE    33 30
        KRP   P         ZNE 16 29 14,7      24
              *PP       Z      28
        MNG   P         Z   16 29 38,4      26
              S         Z      34 13
        COB   E(P)      Z   16 29 58        28
        MJZ   EP        Z   16 30 25        31
        MSZ   EP        Z   16 30 38        33

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 16  20 28 39,4   23,8S 175,7W  59KM  4,8  TONGA REGION
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO   P         Z   20 29 58          6
              S         Z      31 04
        AFI   P         Z   20 30 59         11
              S         ZNE    32 50
              L         ZNE    33 40
              T         ZNE    41 30
        RAR   EP        ZNE 20 31 55         15
        WTZ   P         Z   20 32 15,0       15
        GNZ   EP        Z   20 32 21         16
        KRP   EP        Z   20 32 21         16

DEC 16  AFI   P         Z   22 19 13
              S         ZNE    20 40

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 16  23 48 25,7    5,5N 126,5E  64KM  5,0  MINDANAO
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ   P         Z   23 58 44,1        62
        MJZ   P         Z   23 58 50,5        63
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 17  00 12 10.5     6.1N 127.4E   56KM   5.4  PHILIPPINES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P       Z   00 22 29.1      62
               *PP     Z               42
        KRP    P       Z   00 22 32.2      63
        MJZ    P       ZNE 00 22 35.3      63
        MNG    EP      Z   00 22 45        64

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 17  00 18 33.7     44.7N 149.2E  50KM   5.7  KURIL IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI    EP      Z   00 29 43      68
               S       ZNE    38 36
               LR      ZNE    50
        KRP    P       Z   00 31 12.6    86
               *PP     Z          24
        WTZ    P       Z   00 31 20.5    86
        MNG    P       Z   00 31 23.8    88
               *PP     Z          36
        MJZ    P       ZNE 00 31 34.8    90
               *PP     Z          47
        MSZ    P       Z   00 31 36.9    91
        SBA    EPP     ZNE 00 39 14      123
               EPS     ZNE    49 08
               ESS     ZNE    55 55

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 17  01 45 24.4     5.8S 146.1E  116KM        NEW GUINEA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP E(*PP)     Z   01 53 43      42
        MNG    EP      Z   01 53 19      44
               *PP     Z          46

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 17  03 15 24.0     5.7N 126.6E   33KM   5.1  MINDANAO
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ    P       Z   03 25 45.5      62

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 17  03 45 51.5     33.4N 139.9E  153KM  4.3  S. OF HONSHU
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P       Z   03 57 37.1      78

DEC 17  RAO    EP      Z   08 33 43
               S       Z       34 34

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 17  08 38 26.3     33.7S 179.8W   44KM        S. OF KERMADEC IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    (P)     Z   08 39 24        5
               S       Z       40 21
        SBA    EP      ZNE 08 46 39        45

DEC 17  AFI    P       Z   09 49 16
               S       ZNE    50 06

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 17  09 52 45.5     33.9S 179.6W   50KM   4.7  S. OF KERMADEC IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    EP      Z   09 53 51        5
               S       Z       54 42
        SBA    ES      ZNE 10 07 40        44

DEC 17  AFI    IP      ZNE 13 10 34  U
               S       ZNE        54
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	H M S	EPICENTRE	DEPTH	MAG								
DEC 17	14 11 34,1	22,4S 171,6E	37KM	4,9	LOYALTY IS							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF EP	Z 14 13 25		7								
	KRP P	ZNE 14 15 15,7		16								
	WTZ P	Z 14 15 22,5		16								
	GNZ EP	ZNE 14 15 33		17								
	AFI P	Z 14 15 41		18								
	(SS)	NE 19 14										
	LR	Z 20										
	MNG P	Z 14 15 48,6		18								
	COB P	Z 14 15 53,4		19								
	MJZ P	ZNE 14 16 23,0		22								
	MSZ P	Z 14 16 33,6		22								
	SBA EP	ZNE 14 21 08		56								
	ELR	ZNE 37 50										

	H M S	EPICENTRE	DEPTH	MAG								
DEC 17	18 00 50,2	5,5S 153,2E	44KM	5,5	NEW IRELAND							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	ZNE 18 08 08,1		38	=0,82							6,0
	PCP	Z 10 22										
	WTZ P	Z 18 08 13,9		39								
	COB P	Z 18 08 19,3		40								
	GNZ P	ZNE 18 08 22,6		40	=0,29							6,5
	MNG P	Z 18 08 24,2		40	=0,91							5,9
	MJZ EP	Z 18 08 32		41								
	PCP	Z 10 31										
	MSZ P	Z 18 08 33,8		41								
	SBA EP	ZNE 18 12 16		73								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 18	01 18 54,2	16,6S 28,1E	2KM	5,2	ZAMBIA							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 01 31 24		83								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 18	06 33 01,8	7,1N 126,9E	67KM	4,9	MINDANAO							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 06 43 28,6		63								

	H M S	EPICENTRE	DEPTH	MAG								
DEC 18	06 53 39,6	22,2S 179,8W	591KM	5,4	S. OF FIJI							
		H M S	DIR	DIS	LG$_A$/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF IP	Z 06 55 13,6		5								
	E	Z 56 32										
	RAO P	Z 06 55 27		7								
	E	Z 56 45										
	IS	Z 57										
	AFI P	ZNE 06 56 06		11								
	S	ZNE 58 04										
	CRZ P	ZNE 06 56 37,2		14	0,19							
	S	ZNE 59 07										
	ECZ P	Z 06 56 53,6		15								
	S	Z 59 32										
	WTZ P	Z 06 56 53,8		16								
	S	Z 59 36										
	KRP P	ZNE 06 56 58,1		16	0,16							6,5
	S	ZNE 59 42										
	GNZ P	ZNE 06 56 59,3		16								
	S	ZNE 59 44										
	TRZ P	Z 06 57 08,7		18								
	S	Z 07 00 09										
	MNG P	Z 06 57 20,3		19								
	S	Z 07 00 23										
	WEL P	ZNE 06 57 27,8		20								
	S	ZNE 07 00 39										

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        COB   P       Z   06 57 31,7      20
              S       Z   07 00 49
        CIZ   P       ZNE 06 57 51,9      22
        MJZ   P       ZNE 06 58 01,9      23
        MSZ   P       Z   06 58 14,1      25
        MNW   P       Z   06 58 24,6      26
        SBA   IP      ZNE 07 02 26  D     56 -0,26                          6,1
              ES      ZNE    09 35
              ESCS    ZNE    11 17
              E-SS    ZNE    13 00

DEC 18  AFI   IP      ZNE 10 37 51  D
              S       ZNE    38 31

DEC 18  RAO   IP      Z   11 39 43,6D
              IS      Z      40 05

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 18  13 57 03,8     1,8S  99,6E  33KM   5,6  S. SUMATRA
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   14 09 01,1      78 -0,81                          6,3
        NDF   EP      Z   14 09 04        78
        WTZ   EP      Z   14 09 05        79
        GNZ   P       ZNE 14 09 11,9      80
        SBA   EP      ZNE 14 09 40        84
              ES      ZNE    19 50
        AFI   P       Z   14 09 54        88

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 18  16 23 53,8     33,2N 140,8E  43KM   4,3  S. OF HONSHU
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   16 35 50,0      78

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 19  00 12 11,7     6,2S 148,9E   64KM   5,0  NEW BRITAIN
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       Z   00 19 38        39
        KRP   P       Z   00 19 41,6      40 -0,95                          5,9
        COB   P       Z   00 19 49,7      41
        MNG   P       Z   00 19 55,9      42 -0,84                          5,9
        GNZ   P       ZNE 00 19 56,0      42 -0,57                          6,2
        MSZ   P       Z   00 20 00,0      42
        MJZ   P       ZNE 00 20 00,6      42
        SBA   EP      ZNE 00 23 33        72

DEC 19  RAR   EP      ZNE 00 42 14
              ET      ZNE    58

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 19  07 04 08,7     19,2N 144,8E 309KM   4,4  MARIANA IS
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       Z   07 14 08,3      64

DEC 19  AFI   IP      ZNE 08 54 50  J
              S       ZNE    55 24

DEC 19  AFI   (P)     ZNE 14 43 24

DEC 19  RAO   P       Z   14 45 57
              S       Z      46 54
        AFI   (P)     ZNE 14 47 26
              (S)     ZNE    49 27

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 19  15 21 04,6     6,1N 127,0E   54KM   4,4  PHILIPPINES
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        MSZ E(P)      Z   15 31 27        62
        MJZ   P       Z   15 31 31,1      63
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	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 19	15	22	22.2	6.1N 126.6E	14KM	5.0	MINDANAO

			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	EP	Z	15	32	51.3		63							
	KRP	P	Z	15	32	53.9		63							
	MNW	EP	Z	15	32	54		63							
	MJZ	P	ZNE	15	32	52.4		64							
	AFI	SBS	N	15	49	00		64							
		ELR	ZE			53									
	MNG	P	Z	15	33	01.9		65							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 19	15	48	34.8	22.2S 179.8W	570KM	4.7	S. OF FIJI

			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P	Z	15	50	24.0		7							
		S	Z		51	54									
	AFI	P	Z	15	51	02		11							
		S	ZNE		53	00									
	CRZ	P	ZNE	15	51	36.3		14							
	WTZ	P	Z	15	51	50.6		16							
	KRP	P	ZNE	15	51	55.2		16	-1.03						5.4
	GNZ	P	ZNE	15	51	57.0		16							
		S	ZNE		54	39									
	MNG	P	Z	15	52	15.9		19							
		S	Z		55	14									
	WEL	P	ZNE	15	52	24.4		20							
		S	ZNE		55	35									
	COB	P	Z	15	52	28.8		20							
		S	Z		55	45									
	MJZ	P	Z	15	53	04.6		23							
	MSZ	EP	Z	15	53	12		25							
	MNW	EP	Z	15	53	21		26							
	SBA	EP	ZNE	15	57	22		56							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 19	19	40	20.8	6.8N 126.9E	71KM	4.9	MINDANAO

			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z	19	50	40.7		63							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 20	07	33	56.8	20.8N 144.5E	43KM	5.0	MARIANA IS

			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	07	44	34.9		65							
	MNG	P	Z	07	44	48.7		68							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 20	08	03	30.6	4.7S 140.0E	33KM	5.4	WEST IRIAN

			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	08	11	57.3		46							
	AFI	P	Z	08	12	12		48							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 20	08	35	54.2	18.2S 178.8W	529KM	4.6	FIJI REGION

			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	P	Z	08	37	52		8							
		S	ZNE		39	22									
	CRZ	P	ZN	08	39	36.2		18							
	WTZ	P	Z	08	39	51.7		20							
	KRP	P	ZE	08	39	56.0		20							
	MNG	P	Z	08	40	17		23							
	COB	P	Z	08	40	27.7		24							
	MJZ	P	ZNE	08	40	57.3		27							
	MSZ	P	Z	08	41	09		29							

	H M S	EPICENTRE	DEPTH	MAG								
DEC 20	09 31 14.0	33.5S 179.8W	8KM		S. OF KERMADEC IS							
		H M S	DIR	DIS	LG_mA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO P	Z 09 32 24.8			5							
	S	Z 33 14										
	H M S	EPICENTRE	DEPTH	MAG								
DEC 20	15 25 56.0	5.8N 127.1E	82KM	4.7	PHILIPPINES							
		H M S	DIR	DIS	LG_mA/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ P	Z 15 36 11			62							
	MJZ P	ZE 15 36 16.7			63							
	MNG P	Z 15 36 31.0			64							
	H M S	EPICENTRE	DEPTH	MAG								
DEC 20	16 11 25.7	9.7S 71.2W	588KM	4.8	E. PERU							
		H M S	DIR	DIS	LG_mA/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG EP	Z 16 24 27			101							
	H M S	EPICENTRE	DEPTH	MAG								
DEC 20	17 53 19.4	21.7S 179.6W	612KM	5.4	FIJI REGION							
		H M S	DIR	DIS	LG_mA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO P	Z 17 55 11			8							
	S	Z 56 33										
	AFI P	ZNE 17 55 40			11							
	S	ZNE 57 34										
	CRZ P	ZNE 17 56 22.3			14							
	ES	E 58 58										
	WTZ P	Z 17 56 37.9			16							
	S	Z 59 17										
	KRP P	ZNE 17 56 42.1			17							
	ES	NE 59 32										
	GNZ P	ZNE 17 56 44.2			17							
	S	ZNE 59 26										
	TRZ P	Z 17 56 52.8			18							
	ES	Z 59 44.5										
	RAR EP	ZNE 17 56 56			18							
	ET	ZNE 18 12										
	MNG S	Z 18 00 04			19							
	SCP	Z 03 39.6										
	MJZ P	ZNE 17 57 43			24							
	SCP	Z 18 03 51.5										
	SBA EP	ZNE 18 02 06.5			57							
	E*SP	ZNE 05 06										
DEC 20	NDF IP	Z 17 54 52.6										
	S	Z 56 10										
	H M S	EPICENTRE	DEPTH	MAG								
DEC 20	18 57 32.3	21.2S 179.8W	645KM	4.9	FIJI REGION							
		H M S	DIR	DIS	LG_mA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO P	Z 18 59 21.9			5							
	ES	Z 19 00 54										
	AFI P	ZNE 18 59 52			11							
	S	ZNE 19 01 46										
	WTZ P	Z 19 00 48			17							
	KRP P	ZNE 19 00 52.3			17							
	GNZ P	ZNE 19 00 54.2			18							
	ES	NE 03 41										
	MNG P	Z 19 01 13.2			20							
	ES	Z 04 16										
	SCP	Z 07 50										
	COB P	Z 19 01 25.0			21							
	MSZ EP	Z 19 02 08			26							

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                H  M   S        EPICENTRE     DEPTH   MAG
DEC 20      19 52 00,9      10,9S 165,9E     33KM    4,9  SANTA CRUZ IS
                                H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
            AFI     P           Z   19 56 55         22
                    S           ZNE 20 02 28
            KRP     P           Z   19 57 53,2D      28 +1,00                    5,6
            WTZ     P           Z   19 57 58,0       29
            MNG     P           Z   19 58 13,8J      31
            MJZ     P           ZNE 19 58 38,1       33 +1,05                    5,8
                    PCP         ZN  20 01 19,3
            MSZ     P           Z   19 58 42,2       34
            SBA     EP          ZNE 20 02 51,5       67

                H  M   S        EPICENTRE     DEPTH   MAG
DEC 20      21 12 22,1      22,4S 179,4E    567KM    4,5  S. OF FIJI
                                H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
            NDF     IP          Z   21 13 54,0        5
            RAO     P           Z   21 14 14,2        7
                    S           Z      15 45
            AFI     P           ZNE 21 14 55         12
                    S           ZNE    17 02
            CRZ     P           ZNE 21 15 17,7       13
            WTZ     P           Z   21 15 36,5       16
                    S           Z      18 16,5
            KRP     P           ZNE 21 15 41,3       16 +0,30                    6,1
                    S           ZNE    18 28,0
            GNZ     P           ZNE 21 15 42,9       16
                    S           ZNE    18 26,6
            MNG     P           Z   21 16 02,7       19
                    S           Z      19 02
                  (PCP)         Z      21 08
            MJZ     P           ZNE 21 16 42         23
                    S           ZNE    20 10
                    SCP         Z      22 58
            SBA     EP          ZNE 21 21 08         56

DEC 20      AFI     IP          ZNE 22 23 08  U
                    S           ZNE    24

                H  M   S        EPICENTRE     DEPTH   MAG
DEC 20      22 42 50,8       8,6N 126,0E     47KM    5,3  MINDANAO
                                H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
            MSZ     P           Z   22 53 29,2J      65
            KRP     P           Z   22 53 31,5       65
            MJZ     P           ZNE 22 53 35,1       66 +1,13                    6,0
            MNG     P           Z   22 53 36,8       67

                H  M   S        EPICENTRE     DEPTH   MAG
DEC 21      00 07 34,0      19,0N 147,1E     45KM    4,8  MARIANA IS
                                H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
            MNG     P           Z   00 18 23,5       65

                H  M   S        EPICENTRE     DEPTH   MAG
DEC 21      01 06 22,6      21,2S 178,9W    587KM    4,7  FIJI REGION
                                H  M   S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
            RAO     P           Z   01 08 16,5        9
                    I           Z      21,0
                    S           Z      09 40
            AFI     EP          Z   01 08 41         10
                    S           ZNE    10 31
            CRZ     P           ZN  01 09 30,3       15
            WTZ     P           Z   01 09 46         17
            KRP     P           ZNE 01 09 50,3       17
            GNZ     EP          Z   01 09 50         18
            MNG     P           Z   01 10 10,5       20
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 21    09 52 36.8    9.2N 123.9E  565KM  5.2  CENTRAL PHILIPPINES
                              H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MSZ    P        Z   10 02 34.6      67 =1.04                       5.5
          COB    P        Z   10 02 37.6      67
          KRP    P        Z   10 02 38.7      67
          MJZ    P        ZNE 10 02 40.5      68
          MNG    P        Z   10 02 44.4      69

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 22    00 50 11.2    20.3S 178.4W 623KM  4.7  FIJI REGION
                              H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          CRZ    P        Z   00 53 31      16
          WTZ    P        Z   00 53 45      18
          KRP    P        ZE  00 53 49.5    18
                 PCP      Z       58 18.0
          MNG    P        Z   00 54 11      21
                 PCP      Z       58 37.5
          COB    P        Z   00 54 22.3    22

DEC 22    AFI E(P)        Z   00 56 39
               S          ZNE     58 19

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 22    08 21 39.7    18.2S 175.5W 290KM  4.4  TONGA
                              H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          AFI    P        ZNE 08 22 55       5
                 S        ZNE     23 52
          KRP    P        ZE  08 26 07.3     21
          GNZ    P        Z   08 26 07.7     21
                 ES       NE      29 48
          MNG    P        Z   08 26 28.7     24
          COB    P        Z   08 26 44.0     25
          SBA    EP       ZNE 08 31 24.5     60

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 22    08 38 22.9    33.5N 140.9E  64KM  4.9  S. OF HONSHU
                              H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          KRP    P        ZNE 08 50 17.9J    78 =1.00                       6.0
          COB    P        Z   08 50 26.7     80
          MNG    P        Z   08 50 28.2     80
          MSZ    P        Z   08 50 35.0     82
          MJZ    P        ZN  08 50 36.0     82

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 22    08 53 46.8    17.4S 172.6W  33KM  4.9  TONGA REGION
                              H  M  S   DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          AFI    IP       ZNE 08 54 32  D    4
                 S        ZNE     55 10
                 T        ZNE     57 43
          NDF    P        Z   08 56 09.0      9
          RAR    EP       ZNE 08 56 40       13
                 ES       ZNE     59 10
                 EL       ZNE         54
                 ET       ZNE 09 09
          CRZ    P        ZNE 08 58 35.3     21
          WTZ    P        Z   08 58 45      22
          GNZ    P        ZNE 08 58 49.6     23
                 ES       ZNE 09 02 50
          KRP    P        ZNE 08 58 52.6D    23
          MNG    P        Z   08 59 14.5     25
                 S        Z   09 03 45
          MJZ    P        ZNE 09 00 00       30
          MSZ    P        Z   09 00 12.0     32
          SBA    EP       ZNE 09 04 03       61

DEC 22    WTZ    P        Z   09 10 21.7
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        GNZ    P        Z    09 10 27.9
        KRP    P        Z    09 10 37.6
        MNG    P        Z    09 10 51.8
               S        Z       13 55
        COB    P        Z    09 11 15.0
        MSZ    (P)      Z    09 11 58.8

         H  M  S        EPICENTRE     DEPTH  MAG
DEC 22  10 39 54.1     12.3N 144.6E    30KM  5.6  S. OF MARIANA IS
                                 H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P        Z    10 49 45.3       58
        COB    P        Z    10 49 53.7       59
        MNG    P        Z    10 49 48.2       60
        MSZ    P        Z    10 50 03.8       61

DEC 22  AFI    P        ZNE  11 03 15
               S        ZNE       36

         H  M  S        EPICENTRE     DEPTH  MAG
DEC 22  12 19 00.1     55.4S  28.2W    33KM  5.8  SOUTH SANDWICH IS
                                 H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    EP       ZNE  12 27 26       47
               EPCP     ZNE       28 57.5
               EPP      ZNE       29 22
               EPCS     ZNE       32 56
               ES       ZNE       34 10
               ESCS     ZNE       37 00
               ESS      ZNE          44
               EL       ZNE       38 50
        MSZ    IP       ZNE  12 31 03.1J      79
        MJZ    P        ZNE  12 31 05.8       80
        WEL    P        ZNE  12 31 15.7       82
               PP       Z         34 42
               S        ZNE       41 26
               SS       ZNE       47 08
               SSS      ZNE       50 27
               LQ       E         54
               LR       ZN        58 22
        MNG    P        Z    12 31 18         82
        KRP    P        ZNE  12 31 32.7D      85
        RAR    EP       ZNE  12 32 13         93
               ESKS     ZNE       42 49
               EPS      ZNE       44 40
               ESS      ZNE       49 50
               EL       ZNE  13 01 50
        AFI    EP       Z    12 33 08        104
               EPP      ZNE       37 24
               ESKS     NE        43 48
               E        ZNE       46 28
              E(PKKS)   N         51 20
              E(SSP)    ZE        52 32
               ESSS     ZE        56 00
               ELQ      NE   13 03
               ELR      ZNE       07

         H  M  S        EPICENTRE     DEPTH  MAG
DEC 22  12 43 07.1     55.4S  28.1W    33KM  5.6  SOUTH SANDWICH IS
                                 H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    EP       ZNE  12 51 35       47
        MSZ    P        Z    12 55 11.6       79
        MNG    P        Z    12 55 26.7       82
        COB    EP       Z    12 55 37.8       82
        KRP    P        Z    12 55 38.8       85

         H  M  S        EPICENTRE     DEPTH  MAG
DEC 22  13 05 33.0     55.4S  27.9W    33KM  5.6  SOUTH SANDWICH IS
                                 H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    EP       ZNE  13 14 02       47
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        MSZ   P        Z   13 17 39.0       79
        MJZ   P        Z   13 17 40         80
        KRP   P        Z   13 18 06.8       85

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 22  16 22 08.9     16.0S 172.4W  33KM   5.7  SAMOA REGION
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   IP       ZNE 16 22 39.50      2
              S        ZNE    23 09
        NDF   P        Z   16 24 35        10
        RAR   EP       ZNE 16 25 06        13
              ES       ZNE    27 20
              ET       ZNE    34
        RAO   P        Z   16 25 22        14
              ES       Z      27 47
        CRZ   P        Z   16 27 07        23
        GNZ   P        ZNE 16 27 20.8      24
              S        ZNE    31 35.5
        KRP   P        ZNE 16 27 22        24
              ES       ZNE    31 46
        MNG   P        Z   16 27 44.5      27
              S        Z      32 19
        MJZ   EP       ZNE 16 28 27        31
        MSZ   P        Z   16 28 43.7      33
        SBA   EP       ZNE 16 32 31        63
              ES       ZNE    41 00
              EL       ZNE    50 38

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 22  17 08 04.2     16.0S 172.8W  33KM   4.8  SAMOA REGION
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P        ZNE 17 08 35        2
              S        ZNE    09 00
        KRP   P        Z   17 13 18.8      24
        WTZ   EP       Z   17 13 31.9      24
        MNG   EP       Z   17 14 00.1      27
        MJZ   E(P)     Z   17 14 41        31

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 22  18 40 29.7     16.4S 172.4W  33KM   5.1  SAMOA REGION
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P        ZNE 18 41 02        3
              S        ZNE    28
        NDF   EP       Z   18 43 03        10
        RAR   EP       ZNE 18 43 27.5      13
        CRZ   P        ZN  18 45 32.6      22
        KRP   P        ZNE 18 45 47.0      24
        MNG   P        Z   18 46 07        26
              S        Z      50 47
        COB   P        Z   18 46 22        29
        SBA   EP       ZNE 18 50 53.5      62

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 22  18 51 23.0     57.9S  25.6W  33KM   5.2  SOUTH SANDWICH IS
                              H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP       ZNE 18 59 32        44
        MSZ   P        Z   19 03 15        77
        MJZ   EP       Z   19 03 17        78
        MNG   P        Z   19 03 31.1      80
        KRP   P        Z   19 03 45.00     83

DEC 22  AFI   EP       Z   19 13 48.6
              S        ZNE    15 33
        CRZ   P        ZNE 19 14 54.0
        WTZ   EP       Z   19 15 10
        KRP   P        ZE  19 15 13.00
        GNZ   P        Z   19 15 13.7
        MNG   P        Z   19 15 33.6
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        COB   P       Z   19 15 45.2

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 22  19 54 02.5   16.1S 172.6W   33KM  5.0  SAMOA REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       ZNE 19 54 35        2
              S       ZNE    55 06
        ORZ   P       ZN  19 59 04.5      23
        GNZ   P       Z   19 59 16.6      24
        KRP   P       ZNE 19 59 19        24
        MNG   P       Z   19 59 41.5      27
        MJZ   EP      Z   20 00 27        31
        SBA   EP      ZNE 20 04 25        63
              ES      ZNE 19 59 25

DEC 22  AFI   P       ZNE 23 31 54
              S       ZNE    33 00
        KRP   P       Z   23 34 35
        WTZ   P       Z   23 34 40.5
        GNZ   P       Z   23 34 46.0
        MNG   P       Z   23 35 08.7
        COB   P       Z   23 35 21.3
        MJZ   P       ZNE 23 35 51.8

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 22  23 38 36.3   5.9S 148.7E  131KM  5.6  NEW BRITAIN
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   P       ZNE 23 46 03.2      40
        MNG   IP      Z   23 46 17.7U     42 -0.67                       6.0
        GNZ EIP       ZNE 23 46 17.9D     42
        MSZ   EP      Z   23 46 21        42
        MJZ   P       ZNE 23 46 22.0      42
              PCP     Z      48 11
        SBA   EP      ZNE 23 49 52        73

DEC 22  AFI  (P)      Z   02 14 36

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 23  02 17 40.9   51.3N 179.1E   45KM  5.2  ALEUTIAN IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   S       N   02 37 44        65
              LR      ZN     48
        KRP   EP      Z   02 30 34        89

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 23  05 00 48.2   44.8S 166.9E   33KM  5.0  W. OF FIORDLAND
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CBZ   EP      Z   05 02 42         8
              S       Z      04 10
        SBA   EP      ZNE 05 07 24        33
              ES      ZNE    12 53
              ELR     ZNE    17 35
        AFI   P       Z   05 07 45        36

DEC 23  AFI  (P)      Z   06 27 31
             (S)      NE     29 32

         H  M  S      EPICENTRE    DEPTH  MAG
DEC 23  06 29 42.5   12.4N  86.1W    5KM  5.6  NICARAGUA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI   ES      NE  06 53 20        89
              E       ZE     55 10
              ELQ     N   07 07
              ELR     ZNE    10
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 23  07 56 16.1    53.5S  27.8W   35KM  5.0  SOUTH SANDWICH IS
                                 H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          SBA  EP       ZNE 08 04 44.8      47

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 23  08 05 08.0    55.4S  28.2W   33KM  5.2  SOUTH SANDWICH IS
                                 H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          SBA  EP       ZNE 08 13 35        47

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 23  11 38 31.5     7.1S 155.4E   50KM  4.5  SOLOMON IS
                                 H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          MNG  P        Z   12 05 45.8      38

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 23  17 12 28.3    24.3S 179.9W  510KM  4.0  S. OF FIJI
                                 H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          RAO   P       Z   17 14 00          5
                S       Z      15 12
          WTZ  ES       Z   17 17 57         14
          GNZ   P       Z   17 15 33.1       14
                S       ZNE    18 04
          KRP   P       ZNE 17 15 33.4       14
          MNG   P       Z   17 15 53.7       17
                S       Z      18 42.8
          COB   P       Z   17 16 06         18

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 24  07 46 47.8    55.8S  27.1W   33KM  5.2  SOUTH SANDWICH IS
                                 H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          SBA  EP       ZNE 07 55 12        46
          KRP   P       Z   07 59 27.3      85

DEC 24    NDF   P       Z   15 22 21.0
          AFI  E(P)     Z   15 22 58
               (S)      ZNE    24 18
          WTZ  EP       Z   15 24 40.3
          KRP   P       Z   15 24 46.0
          GNZ  EP       Z   15 24 48.7
                S       ZNE    28 03
          MNG   P       Z   15 25 09.6
               ES       Z      28 47
          COB   P       Z   15 25 22.8

DEC 24    KRP   P       ZNE 15 46 58
          MNG   P       Z   15 47 12.9
          GNZ   P       Z   15 47 16.6

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 24  20 31 01.2    52.6S 159.6E   33KM  5.3  MACQUARIE I.
                                 H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
          CBZ   P       Z   20 32 10          6  0.75
                S       Z      33 06
          MNW   P       Z   20 32 51.0        9
          MSZ   P       Z   20 33 08.0       10
          MNG   P       Z   20 34 33.9       16
          KRP   P       ZNE 20 35 06.7       18
          GNZ   P       ZNE 20 35 11         19
          SBA  EP       ZNE 20 36 27.5       23
               ES       ZNE    41 06
               ELP      ZNE    43 20

DEC 24    AFI   P       Z   22 45 39
                S       ZNE    46 03
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          H  M  S       EPICENTRE    DEPTH  MAG
DEC 24  22 58 40,6   20,7S 168,7E   33KM        LOYALTY IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MNG    P      Z   23 03 16,3     21 -1,23                        5,0

DEC 24  RAO    P      Z   23 15 04  D
        RAO    S      Z      16 04

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 25  01 35 28,5   10,8S 166,1E  193KM  4,9  SANTA CRUZ IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        KRP    P      Z   01 41 08,0     28
        WTZ    EP     Z   01 41 14,7     29
        GNZ    P      ZNE 01 41 18,3     30
        TRZ    P      Z   01 41 25,0     30
        MNG    P      Z   01 41 28,7     31
               I      Z      29,9
        MJZ    P      ZNE 01 41 31,8     33 -1,42                        5,2

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 25  03 32 45,0   14,5S 167,8E   26KM  5,6  NEW HEBRIDES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF    P      Z   03 35 12,3     10
        AFI    P      Z   03 37 23       20
               S      ZNE    42 12
        KRP    P      ZNE 03 38 04,4     24
               *PP    ZNE        20,4
        GNZ    P      ZNE 03 38 16,4     26
        MNG    P      Z   03 38 23,8     27
        MJZ    P      Z   03 38 48,6     29
        RAR    EP     ZNE 03 39 07       32
        SBA    EP     ZNE 03 43 14       63

DEC 25  NDF    EP     Z   04 18 12

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 25  05 18 29,1   55,5S  27,8W   33KM  5,2  SOUTH SANDWICH IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    EP     ZNE 05 26 54,5     47
               ES     N      34 00
               ELR    ZNE    41 30
        KRP    EP     Z   05 31 01       85

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 25  10 21 24,8   22,6S  70,5W   63KM  5,2  N. CHILE
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA    EP     ZNE 10 32 57,5     74

DEC 25  SBA    EP     ZNE 10 46 26
               ELR    ZNE    49 26

          H  M  S       EPICENTRE    DEPTH  MAG
DEC 25  13 50 59,3   31,0S 179,8E  401KM  4,6  KERMADEC REGION
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO    P      Z   13 52 00          3
               S      Z      48
        ONE    P      E   13 52 45,4        7
               S      E      54 10,6
        ECZ    P      Z   13 52 47,8        7
               S      Z      54 06
        CRZ    P      Z   13 52 48,7J       7 -0,29
        GNZ    P      ZNE 13 52 51,7        9
               I      Z      56,2
               IS     ZNE    54 22,9
        KRP    P      ZNE 13 52 56,2        9
               S      NE     54 32
        TRZ    P      Z   13 53 07,3        9
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                S       Z       54 47.5
        MNG     P       Z    13 53 17.3      10
                I       Z       20.2
                S       Z       55 09
        WEL     P       ZNE  13 53 29.3      11
                S       ZNE     55 29
        COB     P       Z    13 53 36        12
                S       Z       55 41
        MJZ     P       Z    13 54 11.8      15
                ES      ZNE     56 53
        AFI     P       Z    13 54 52        19
                S       NE      58 00

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 25  18 55 58.1      53.0N 159.4E  52KM  5.7  KAMCHATKA
                                H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       Z    19 07 26        71
                S       N       16 28
                LQ      E       25
                LR      ZN      28
        KRP     P       Z    19 09 02.3      92
                *PP     Z       18.5
        GNZ     P       Z    19 09 05        93
        SBA     EPKP    ZNE  19 15 02       131
                EPP     ZNE     17 14
                EPKS    ZNE     18 34

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 25  22 19 06.8      16.6S 172.7W  33KM  5.2  SAMOA REGION
                                H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        AFI     IP      ZNE  22 19 45  D     3
                S       ZNE     20 15
        NDF     EP      Z    22 21 34.0      9
        RAR     EP      ZNE  22 22 04        13
                EL      ZNE     25
        GNZ     P       ZNE  22 24 07.3      23
        KRP     IP      ZNE  22 24 18.00     24 -0.62                        5.8
        MNG     P       Z    22 24 41        26
        COB     P       Z    22 24 58.0      27
        MSZ     EP      Z    22 25 40        32
        SBA     EP      ZNE  22 29 27        62

DEC 26  MNG     P       Z    03 42 02.4
                S       Z       44 51

DEC 26  KRP     P       Z    05 18 13.9
        GNZ     P       Z    05 18 14.8
            E(S)        NE      20 48
        MNG     P       Z    05 18 32
            E(S)        Z       21 25

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 26  10 50 47.7      19.1S 176.1W 250KM  4.5  FIJI REGION
                                H  M  S   DIR DIS LGMA/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       Z    10 52 20        7
                S       NE      53 26
        WTZ     P       Z    10 55 00.2      20
        GNZ     P       ZNE  10 55 04        20
                S       ZNE     58 34
        KRP     P       Z    10 55 04.1      20
                I       Z       06.7
        MNG     P       Z    10 55 25        23
                ES      Z       59 16
        COB     P       Z    10 55 40.3      24
        SBA     EP      ZNE  11 00 26.5      59
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	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 26	13	25	22.1	17.8S 179.9W	648KM	4.7	FIJI REGION

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	NDF	EP	Z	13	26	44.3		3							
	AFI	P	ZNE	13	27	26		9							
DEC 26	AFI	P	ZNE	16	40	18									
		S	ZNE			50									
DEC 26	AFI	IP	ZNE	17	30	18									
		S	ZNE			38									
DEC 26	AFI	P	ZNE	18	23	32									
		S	ZNE			24 05									

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 26	18	56	44.7	55.1S 27.7W	33KM	5.0	SOUTH SANDWICH IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	19	05	13.5		47							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 26	21	04	41.2	5.3N 127.6E	168KM	4.9	PHILIPPINES

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z	21	14	43.0		61							
	MJZ	P	Z	21	14	48.9		62							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 26	21	26	16.5	10.9S 164.8E	33KM	4.9	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	21	37	09.5		67							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 26	22	03	42.2	51.7N 176.3W	57KM	5.9	ALEUTIAN IS

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZN	22	23	08		65							
		EL	ZN		33										
	KRP	*PP	Z	22	16	47		90							
	SBA	EPKP	ZNE	22	22	45.0		130							
		EPKS	ZNE		26	03.5									
OCT 27	GNZ	S	ZNE	06	54	36									
	MNG	P	Z	06	53	30.5									
		S	Z		55	37									
DEC 27	WTZ	P	Z	07	09	43.8									
	KRP	P	Z	07	09	51.7									
	GNZ	ES	ZNE	07	12	59									
	MNG	P	Z	07	10	10.9									
		ES	Z		13	52									
	COB	P	Z	07	10	27.2									

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 27	07	30	34.6	2.5S 138.7E	28KM	5.4	WEST IRIAN

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	P	Z	07	39	24.7		49							
	MJZ	P	Z	07	39	27.8		50							
	MNG	P	Z	07	39	28.8		50							
	SBA	EP	ZNE	07	42	25.5		77							

	H	M	S	EPICENTRE	DEPTH	MAG	
DEC 27	09	59	37.2	2.3S 138.9E	16KM	5.1	WEST IRIAN

			H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MSZ	EP	Z	10	08	49		49							
	MJZ	P	Z	10	08	55		50							
	MNG	P	Z	10	08	54.5		50							
	SBA	EP	ZNE	10	11	50		77							

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                H  M   S        EPICENTRE      DEPTH   MAG
DEC 27  14 06 09,0          46,3N 144,0E  342KM   5,4  SEA OF OKHOTSK
                                  H  M   S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          COB     P         Z    14 18 35,6       91
                  sPP       Z       19 57,5
          MNG     P         Z    14 18 35,6       91
                  sPP       Z       19 55,3
                  I         Z       20 06,8
          MJZ     P         ZE   14 18 45        93
                  S         ZNE     20 05,9
          MSZ     P         Z    14 18 46,2       93
                  S         Z       20 06,9
          SBA     EPKP      ZNE  14 24 23        125
                  EPP       ZNE     25 51

DEC 27    AFI     P         ZNE  15 44 01
                  S         ZNE     28

                H  M   S        EPICENTRE      DEPTH   MAG
DEC 27  17 58 29,3          16,2S 172,6W   33KM   4,9  SAMOA REGION
                                  H  M   S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          AFI     P         ZNE  17 59 01         2
                  S         ZNE     26
          RAR     EP        ZNE  18 01 27        13
                  ES        ZNE     04 04
          CRZ     P         ZN   18 03 28,8      22
          GNZ     P         ZNE  18 03 40,6      24
          MNG     P         Z    18 04 04,1      25
          MJZ     P         ZNE  18 04 50,4      31

DEC 27    AFI     P         ZNE  18 07 08
                  S         ZNE     36

                H  M   S        EPICENTRE      DEPTH   MAG
DEC 27  23 58 17,2          19,9S 177,8W  395KM   4,3  FIJI REGION
                                  H  M   S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          AFI     P         ZNE  24 00 04         8
                  S         ZNE     01 30
          WTZ     P         Z    24 02 07        19
          KRP     P         Z    24 02 11,2      19
                  I         ZNE     12,5
          GNZ     P         ZNE  24 02 13,3      19
                  S         ZNE     05 24
          MNG     P         Z    24 02 32,9      21
                  I         Z       34,7
                  ES        Z       05 09,7
          COB     P         Z    24 02 46,5      23
          MJZ     P         Z    24 03 16,0      26

DEC 28    AFI     P         Z    02 11 19
                  S         ZNE     45
                  T         ZNE     13 42

                H  M   S        EPICENTRE      DEPTH   MAG
DEC 28  02 40 53,0          21,5S 169,9E   28KM   5,6  LOYALTY IS
                                  H  M   S   DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
          NDF     IP        Z    02 42 57         8
          KRP     EP        ZNE  02 44 51        17 -0,31                          5,8
          WTZ     EP        Z    02 44 55        18
          GNZ     EP        ZNE  02 45 07        18
          AFI     P         ZNE  02 45 16        19
                  S         ZNE     48 40
                  (SS)      Z       50 17
          MNG     P         Z    02 45 19,0      20 -0,28                          5,9
          COB     EP        Z    02 45 23        20
          WEL     EP        ZNE  02 45 29        20
                  S         ZNE     49 19
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                L       ZNE      51
        MJZ     EP      ZNE 02 45 50        22
                E       Z        46 00.6
                S       ZNE      50 00.2
        MSZ     EP      Z   02 46 00        23  -0.37                          6.0
        RAR     EP      ZNE 02 46 48        28
                ES      ZNE      51 42
                ELR     ZNE      54 20
        SBA     EP      ZNE 02 50 32        56
                EPCP    ZNE      51 26
                ES      ZNE      58 25
                ESCS    ZNE 03 00 27
                ESS     ZNE      02 24
                ELQ     ZNE      05 00
                ELR     ZNE      08 00

         H  M  S        EPICENTRE    DEPTH   MAG
DEC 28   04 04 23,8     17,9S 167,5E   5KM   5,1  NEW HEBRIDES
                            H  M  S   DIR DIS  LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI     P       Z   04 09 06        20
                (*PP)   Z               14
                S       E       12 52
                SS      ZN      13 12
                L       ZE      14
        KRP     P       ZNE 04 09 10.0      21  -0.66                          5.6
                I       ZNE      18.2
        GNZ     EP      Z   04 09 30        23  -0.16                          6.3
        MNG     P       Z   04 09 35.6      24  -1.12                          5.4
        COB     EP      Z   04 09 37        24
        WEL     P       Z   04 09 38        24
        MJZ     EP      Z   04 10 03        26
        RAR     ES      ZNE 04 15 37        31
                ELR     ZNE      19 50
        SBA     EP      ZNE 04 14 31        60
                ES      ZNE      22 44

         H  M  S        EPICENTRE    DEPTH   MAG
DEC 28   05 54 10,6     5,6N 127,1E   70KM   5,8  PHILIPPINES
                            H  M  S   DIR DIS  LG.A/T  AZ TZ  AN TN  AE TE  MAG
        MSZ     P       Z   06 04 24.9        62  -0.89                          6.3
        COB     EP      Z   06 04 31          62
        KRP     P       ZNE 06 04 32.0      62  -1.21                          5.9
        MJZ     P       Z   06 04 31.0      63
        AFI     EP      Z   06 04 36        64
                ES      ZE      13 20
                ELQ     N       21
                ELR     ZE      24
        MNG     P       Z   06 04 39.4      64
        SBA     EP      ZNE 06 06 46.3      86
                ES      ZNE      17 16

DEC 28  KRP     P       Z   06 07 59.3
        MNG     P       Z   06 08 26.0

         H  M  S        EPICENTRE    DEPTH   MAG
DEC 28   08 59 55,4     20,5S 169,4E   47KM   5,5  NEW HEBRIDES
                            H  M  S   DIR DIS  LG.A/T  AZ TZ  AN TN  AE TE  MAG
        NDF     IP      Z   09 01 58.6       8
        CRZ     EP      ZNE 09 03 22.5      14
        KRP     P       ZNE 09 04 05.1      18
                *PP     Z       19.1
        WTZ     P       Z   09 04 12.3      19
        AFI     P       ZNE 09 04 18        19
                S       ZNE      07 52
                (LQ)    N        08
                LR      ZE       09
        GNZ     P       ZNE 09 04 20.7      20  -0.12                          6.1
        TRZ     P       Z   09 04 26.1      20
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        MNG   P        Z    09 04 32,1      21 =0,35                    5,9
              I        Z         41,5
                *PP    Z         48,8
        COB   P        Z    09 04 34,7      21 =0,56                    5,7
                *PP    Z         47,9
        WEL   P        Z    09 04 41,8      21
                *PP    Z         56,1
              S        ZNE  08 35
              L        ZNE  10
        MJZ   EP       ZNE  09 05 02        23
        MSZ   P        Z    09 05 08,5      24
        WPZ   P        Z    09 05 26,6      26
              E        Z         37,4
        SBA   EP       ZNE  09 09 40        57

DEC 28  NDF   P        Z    10 39 13,5
        KRP   P        Z    10 41 11,2
        COB   EP       Z    10 41 44

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 28  10 45 50,2     21,7S 169,9E   42KM        LOYALTY IS
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP       Z    10 49 47        17
        MNG   EP       Z    10 50 14,8      19

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 28  16 57 45,0     34,7S  70,4W  63KM  5,6  AFGHANISTAN
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   EPKP     Z    17 16 31,8      84
        WTZ   EPKP     Z    17 16 32,3      84
        MNG   EPKP     Z    17 16 33        84
        MSZ   PKP      Z    17 16 27,2      85
        COB   PKP      Z    17 16 30,0      85
        KRP   PKP      Z    17 16 32,6      85

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 28  18 23 56,9     55,4S  28,1W  33KM  5,5  SOUTH SANDWICH IS
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP       ZNE  18 32 24,2      47
        MSZ   P        Z    18 36 00,0      79
        COB   EP       Z    18 36 13,5      82
        KRP   P        Z    18 36 27,3      85

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 28  19 25 01,7     1,1N 126,8E   33KM        MOLUCCAS
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        MJZ   P        ZNE  19 35 02,3      59
              E        ZNE       17,2

DEC 29  AFI   IP       Z    00 49 09,5D
              S        ZNE       29

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 29  02 26 09,7     30,9S  59,1E   33KM  4,7  INDIAN OCEAN
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP       ZNE  02 36 37        64

         H  M  S       EPICENTRE    DEPTH  MAG
DEC 29  04 51 01,6     30,6S  71,0W   60KM  6,0  CHILE
                              H  M  S  DIR DIS LG,A/T  AZ TZ  AN TN  AE TE  MAG
        SBA   EP       ZNE  05 01 46,5      67
        MNG   P        Z    05 03 37,5      85
              E*PP     Z         52
        MJZ   P        ZNE  05 03 41,3      87
                *PP    ZNE       56,0
        COB   P        Z    05 03 43,1      88
                *PP    Z         58,3
                *SP    Z    04 16,7
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        KRP    P        ZNE 05 03 45,0      88 -1,15                          6,1
               *PP      ZNE    04 00,0
        MSZ E(P)        Z   05 03 47        89

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 29  06 47 41,7     36,3S  97,6W  33KM  5,1  W. OF CHILE
                          H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP         ZNE 06 57 26        56

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 29  08 47 07,1     4,9S 152,4E  64KM  5,5  NEW BRITAIN
                          H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP         Z   08 54 32        39
             *PP        Z         47,3
             PCP        Z      56 39,3
        COB  P          Z   08 54 43        40
             PCP        Z         59,8
        GNZ  EP         Z   08 54 44,9      41
             (PCP)      Z      55 02
        MNG  P          Z   08 54 48,0      41
             PCP        Z         02,8
        MSZ  EP         Z   08 54 57,3      42
        SBA  EP         ZNE 08 58 34        73

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 29  10 50 01,5     0,8S 126,8E  33KM  5,3  MOLUCCA SEA
                          H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        MNG  P          Z   10 59 59,2      59

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 29  12 19 19,7     5,6S 148,7E 158KM  5,0  NEW BRITAIN
                          H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  P          Z   12 26 44,5      40

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 29  18 18 58,0     19,8S 168,9E  31KM  4,7  NEW HEBRIDES
                          H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  P          ZNE 18 23 20,0      19
        COB  EP         Z   18 23 47,7      21
        MNG  P          Z   18 23 45,6      22 -0,92                          5,4
        MJZ  P          ZNE 18 24 14,8      24
        MSZ  P          Z   18 24 21,6      25
        SBA  EP         ZNE 18 28 50,8      58

         H  M  S        EPICENTRE    DEPTH  MAG
DEC 29  19 05 23,4     21,6S 169,7E  33KM  5,4  LOYALTY IS
                          H  M  S  DIR DIS LG A/T  AZ TZ  AN TN  AE TE  MAG
        KRP  EP         ZNE 19 09 22,8      17 -1,00                          5,1
        AFI  P          Z   19 09 52        19
             S          ZNE    13 20
             (LQ)       N      14 20
             LR         ZE     48
        MNG  P          Z   19 09 49,0      20 -0,91                          5,3
        COB  EP         Z   19 09 51,5      20
        WEL  P          ZNE 19 10 00        20
             S          ZNE    13 49
             LQ         NE     14 18
             LR         ZNE    15                      15 15
        MJZ  P          ZNE 19 10 20,3      22
        MSZ  EP         Z   19 10 31        23
        SBA  EP         ZNE 19 15 02        56
             ELR        ZNE    32 34

DEC 29  KRP  EP         Z   19 19 56,2
        MNG  P          Z   19 20 13,9          -1,21

DEC 29  NDF  P          Z   22 19 13
        KRP  EP         Z   22 21 23,7
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DEC 30  AFI   P       ZNE 01 59 28
              S       ZNE       51
              T       ZNE 02 01 50

          H  M  S      EPICENTRE   DEPTH  MAG
DEC 30  02 44 49,8     4,9S 145,3E  37KM  4,4  BISMARCK SEA
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP      Z   02 52 45,3      43
        COB   EP      Z   02 52 51,1      44
        MSZ   P       Z   02 52 56        44
        MJZ   EP      Z   02 52 59,2      45
        MNG   P       Z   02 53 09,8      45 -1,35                        5,5

          H  M  S      EPICENTRE   DEPTH  MAG
DEC 30  05 57 45,9     16,1S 172,6W  33KM  4,9  SAMOA REGION
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       ZNE 05 58 18        2
              S       ZNE       49
        NDF   EP      Z   06 00 19       10
        RAR   ES      ZNE 06 03 20       13
        KRP   P       Z   06 03 00,8     24
        MNG   P       Z   06 03 23,9     27
        COB   EP      Z   06 03 38,0     28

          H  M  S      EPICENTRE   DEPTH  MAG
DEC 30  13 31 02,2     4,8S 145,3E  33KM  5,0  BISMARCK SEA
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP   EP      Z   13 39 00,4      43
        COB   EP      Z   13 39 06,0      44
        MSZ   EP      Z   13 39 13        44
        MNG   P       Z   13 39 12,8      45
        MJZ   P       Z   13 39 14,7      45 -1,62                        5,2

DEC 30  AFI   P       ZNE 13 06 30
              S       ZNE       48

          H  M  S      EPICENTRE   DEPTH  MAG
DEC 30  17 32 29,5     31,2S  71,3W  85KM  4,9  CHILE
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        KRP E(P)      Z   17 45 28       87

          H  M  S      EPICENTRE   DEPTH  MAG
DEC 30  20 41 00,5     14,6S 175,1W  33KM  4,9  SAMOA REGION
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI   P       ZNE 20 41 39        3
              S       ZNE    42 10
        MNG   EP      Z   20 46 43,2      27
        SBA   EP      ZNE 20 51 32,5      64

DEC 30  AFI   P       ZNE 21 32 18
              S       ZNE       50
              T       ZNE    34 55

DEC 31  KRP   P       Z   00 44 04
        MNG   EP?     Z   00 44 41

DEC 31  KRP   P       Z   01 04 37

DEC 31  KRP   P       Z   01 13 58

DEC 31  KRP   P       Z   01 40 37,5

DEC 31  RAO   P       Z   17 41 06,70
              S       Z         23,0
        KRP   EP      Z   17 43 01
```

	H	M	S	EPICENTRE	DEPTH	MAG									
DEC 31	21	45	40.2	3.3S 134.4E	33KM	5.0	WEST IRIAN								
				H	M	S	DIR	DIS	LG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP	Z	21	54	50.4		52								

PUBLICATIONS BY STAFF MEMBERS

During 1972 the following papers by members of the Seismological Observatory Staff were published:

S-188 RANDALL, M.J.: Stress Drop and the Ratio of Seismic Energy to Moment.
J. Geophys. Res. 77: 969-70.

Recent authors have asserted that the ratio of seismic energy to moment is related to average stress at the source. That radiation in a linear system should depend upon average stress rather than stress-drop offends physical intuition. It is shown that it is indeed stress-drop that affects the seismic energy.

S-189 GIBOWICZ, S.J.: The Relationship between Teleseismic Body-Wave Magnitude m and Local Magnitude M_L from New Zealand Earthquakes.
Bull. Seismol. Soc. Amer. 62: 1-11.

Relationships between the magnitudes M_L and m for 123 New Zealand earthquakes occurring between 1950 and 1967 and having $4.6 \leq M_L \leq 7.3$ have been found. Deep- and shallow-focus shocks were considered separately. There is a linear relationship between M_L and m, the slope being the same for both deep and shallow events. Values of M_L for deep events are consistently 0.5 magnitude larger than those for shallow events having the same value of m. The relationship between m and M_L for New Zealand earthquakes differs significantly from that obtained by Gutenberg and Richter in California.

S-190 ADAMS, R.D., MUIR, M.G., and KEAN, R.J.: Te Aroha Earthquake, 9 January 1972.
Bull. N.Z. Soc. Earthq. Engng. 5: 54-8.

The Te Aroha earthquake of 9 January 1972 (N.Z.S.T.) was of only moderate magnitude (5.1). It occurred at a shallow depth within a few kilometres of Te Aroha, where an intensity of MM VII was reached. Damage was mainly confined to domestic chimneys and contents of buildings in the Te Aroha region, but the felt area extended as far as Auckland, Mangakino and Whakatane. Numerous aftershocks occurred in the following month.

S-191 EIBY, G.A.: Space and Time Trends in New Zealand Seismicity.
J. Geophys. Res. 77: 2626-8.

Examples of sequences of related large earthquakes similar to those observed in the Alaska-Aleutian zone have been suggested by Kelleher. The data on which the suggestion was based are inhomogeneous and incomplete, and cannot even provisionally establish the existence of the trends suggested.

S-192 ADAMS, R.D.: Multiple Inner-Core Reflections from a Novaya Zemlya Explosion.
Bull. Seismol. Soc. Amer. 62: 1063-71.

The phases P2KP, P3KP, and P4KP are well recorded from the Novaya Zemlya nuclear explosion of October 14, 1970, with the branch AB at distances of up to 20° beyond the theoretical end point A. This extension is attributed to diffraction around the core-mantle boundary. A slowness $dT/d\Delta = 4.56 \pm 0.02$ sec/deg is determined for the AB branch of P4KP, in excellent agreement with recent determinations of the slowness of diffracted P. This

slowness implies a velocity of 13.29 ± 0.06 km/sec at the base of the mantle, and confirms recent suggestions of a low-velocity channel above the core-mantle boundary. There is evidence that arrivals recorded before the AB branch of P2KP may lie on two branches, with different slownesses. The ratio of amplitudes of successive orders of multiple inner core reflections gives a lower bound of about 2200 for Q in the outer core.

S-193 GIBOWICZ, S.J.: Amplitude of P-waves Recorded at New Zealand Stations from Shallow Earthquakes at less than 30°. N.Z. Jl. Geol. Geophys. 15: 336-59.

The dependence of P wave amplitude on distance has been deduced from 1,737 observations of shallow earthquakes recorded at 11 New Zealand stations in the distance range from 0.5° to 30°. The curves have a strongly oscillatory character, with maxima at distances believed to coincide with the first arrival of waves refracted from several deep discontinuities. The lateral variations of amplitude reveal a complex pattern of horizontal inhomogeneity in the lower crust and upper mantle, accompanied by changes in velocity and attenuation. Corresponding values of Q range from 100 in the northern half of the North Island to 400 in Fiordland. There appears to be an inverse correlation between the amplitude residuals at the individual stations and the travel-time anomalies, larger amplitudes being associated with early arrivals and vice versa.

S-194 ADAMS, R.D.: Dispersion-wave Studies in Antarctica. In Adie, R.J. (ed.), Antarctic Geology and Geophysics: 473-80. Oslo, Universitets vorlaget.

Studies of the dispersion of Love and Rayleigh waves crossing Antarctica gave the first firm indication of the truly continental thickness of the crust beneath eastern Antarctica, and showed that beneath western Antarctica, and Marie Byrd Land in particular, the crust was about 10 km thinner. This work was carried out very soon after the installation of long-period seismographs in Antarctica early in the International Geophysical Year, and the results have been modified only slightly since. The preferred values of crustal thickness are between 35 and 40 km beneath eastern Antarctica, and between 25 and 30 km beneath western Antarctica. Various sectors of the oceans surrounding the Antarctic continent have also been explored by surface-wave methods, and crustal thicknesses of between 5 and 10 km have been found. The application of dispersive-wave studies to Antarctica came at an early stage of development of the technique, and it was useful not only in elucidating the structure of the Antarctic continent but also in clarifying both the power and the deficiencies of methods of dispersive-wave analysis.

S-195 ADAMS, R.D.: Local Earthquakes in Victoria Land. In Adie, R.J. (ed.), Antarctic Geology and Geophysics: 495-9. Oslo, Universitets vorlaget.

Numerous small earthquakes of magnitude up to about $3\frac{1}{2}$, recorded at Vanda and Scott Base between January 1969 and February 1970, appear to originate from the David Glacier area. The paucity of larger events shows that these are not natural earthquakes and, although they occur within 120 km of geothermal areas, their regularity of occurrence and their location suggest ice movement as their probable mechanism.

S-196 ADAMS, R.D.: An Earthquake to the North-West of New Zealand. N.Z. Jl. Geol. Geophys. 15: 674-7.

On 1971 January 31, an earthquake of magnitude 4.4 occurred on the northern flank of the Reinga Ridge, 270 km to the north-west of New Zealand. This is the first known instance of an earthquake occurring between the Northland Peninsula of New Zealand,

and Norfolk Island, both areas of low, but definite, seismicity.

-- ADAMS, R.D.: Earthquakes near Mangla Dam.
Bull. Seismol. Soc. Amer. 62: 1787.

A letter drawing attention to the dangers of uncritical acceptance of certain published seismicity figures. There is no clear evidence that the general level of seismicity at Mangla rose after water was impounded in the dam.

-- ADAMS, R.D.: Erdbeben in die Antarktis?
Umschau 72: 258-9.

Although volcanism and young fold mountains are present, Antarctica is without earthquakes. Movements recorded at Vanda and Scott Base probably originate in the cracking of ice. (In German)

-- EIBY, G.A.: The Star Gazers.
New Zealand's Heritage 4: 1529-35.

A brief history of astronomical observation and research in New Zealand, and an account of New Zealand observatories and astronomers.

-- RANDALL, M.J.: Multipolar Analysis of the Mechanisms of Deep-Focus Earthquakes.
Methods in Computational Physics 12: 267-298.

By using amplitude data as well as the direction of initial recorded motion it is possible to discriminate between the classical dislocation model of the earthquake source, and a model involving phase transition. Certain characteristics of seismic sources and the time-integral of the ground displacement can be related to the amplitudes of body-waves from deep earthquakes, and to the radiation pattern about the focus. Observations of six earthquakes support the "double-couple" model.

E-149 New Zealand Seismological Report 1967.
N.Z. Govt. Printer. 534 pp. 2 maps.

EXCHANGE AGREEMENTS

The Seismological Observatory issues the following series of publications:

1. E-bulletins. These consist of the annual "New Zealand Seismological Reports", containing a detailed summary of all standard measurements made at stations of the N.Z. network, lists of epicentres, felt intensity data, and a brief account of the principal earthquakes of the year.

2. S-bulletins. These are mostly reprints of papers by members of the Observatory staff, but occasionally it has included material not published elsewhere, such as the Eiby-Muir near earthquake tables, and a descriptive account of the Observatory and its work issued to conference delegates.

3. A-bulletins. These are cyclostyled sheets giving preliminary readings from Wellington and a small selection of well-distributed outstations. They are issued fortnightly to observatories and data centres needing rapid access to New Zealand readings, and are not intended to have a wide circulation.

The Observatory will be pleased to consider exchange agreements for any of this material. Stations requesting the A-series normally receive S and E-series as well, and those requesting the E-series also receive the S-series. This arrangement facilitates mailing procedures.

LIST OF MAPS

(in pocket inside back cover)

1. Epicentres of Normal Focus Earthquakes in 1972.
2. Epicentres of Deep Focus Earthquakes in 1972.

NORMAL EARTHQUAKES
1972

This map shows the instrumentally determined epicentres of all earthquakes whose focal depths are less than 40 Km. Shocks with a standard error greater than 2.0 sec., and those that have been recorded at only four or fewer stations are shown by open circles. The size of the circle is an indication of instrumental magnitude. When several shocks have the same epicentre, the magnitude of the largest is shown.

Magnitude
- ● >6.0
- ● 5.0–5.9
- ● 4.0–4.9
- ● <4.0

Cape Reinga
Onerahi
Great Barrier
Auckland
Karapiro
Whakatane
East Cape
Wairakei
Gisborne
Taupo
Tarata
Chateau
Paraparaumu
Mangahao
Castlepoint
Cobb
Wellington
Foulwind
Denniston
Kaikoura W
Kaimata
Christchurch
Gebbies Pass
Mt. John
Milford Sound
Oamaru
Roxburgh
Monowai
Waipapa Pt.
Chatham Islands

166°E. 167° 168° 169° 170° 171° 172° 173° 174° 175° 176° 177° 178° 179° 180° 179° 178°W.

32°S. 33° 34° 35° 36° 37° 38° 39° 40° 41° 42° 43° 44° 45° 46° 47° 48°

165°E. 166° 167° 168° 169° 170° 171° 172° 173° 174° 175° 176° 177° 178° 179° 180° 179° 178° 177° 176° 175°W.

SCALE
20 0 20 40 60 80 100 Statute Miles
20 0 20 40 60 80 100 Kilometres

SEISMOLOGICAL OBSERVATORY BULLETIN E-152

A. R. Shearer. Government Printer, Wellington. New Zealand

Map 1

DEEP FOCUS EARTHQUAKES
1972

This map shows the instrumentally determined epicentres of all earthquakes whose focal depths are 40 Km.or more. Shocks with a standard error greater than 2.0 sec., and those that have been recorded at only four or fewer stations are shown by open circles. The size of the circle is an indication of instrumental magnitude. When several shocks have the same epicentre, the magnitude of the largest is shown.

Magnitude
- ● >6.0
- ● 5.0–5.9
- • 4.0–4.9
- • <4.0

166°E. 167° 168° 169° 170° 171° 172° 173° 174° 175° 176° 177° 178° 179° 180° 179° 178°W.

32°S. 33° 34° 35° 36° 37° 38° 39° 40° 41° 42° 43° 44° 45° 46° 47° 48°

Cape Reinga
Onerahi
Great Barrier
Auckland
Karapiro
Whakatane
East Cape
Gisborne
Tuai
Tarat
Chateau
Taradale
Mangahao
Castlepoint
Cobb
Wellington
Foulwind
Denniston
Kaikoura W
Kaimata
Christchurch
Gebbies Pass
Mt. John
Milford Sound
Oamaru
Roxburgh
Monowai
Waipapa Pt.
Chatham Islands

165°E. 166° 167° 168° 169° 170° 171° 172° 173° 174° 175° 176° 177° 178° 179° 180° 179° 178° 177° 176° 175°W.

SCALE
20 0 20 40 60 80 100 Statute Miles
20 0 20 40 60 80 100 Kilometres

SEISMOLOGICAL OBSERVATORY BULLETIN E-152

A. R. Shearer. Government Printer, Wellington. New Zealand

MAP 2

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