New Zealand Department of Scientific and Industrial Research
GEOPHYSICS DIVISION

NEW ZEALAND

SEISMOLOGICAL REPORT

1964

SEISMOLOGICAL OBSERVATORY BULLETIN
E – 145

A. R. SHEARER, GOVERNMENT PRINTER, WELLINGTON, NEW ZEALAND—1968

New Zealand Department of Scientific and Industrial Research
GEOPHYSICS DIVISION

NEW ZEALAND SEISMOLOGICAL REPORT 1964

SEISMOLOGICAL OBSERVATORY BULLETIN
E – 145

A. R. SHEARER, GOVERNMENT PRINTER, WELLINGTON, NEW ZEALAND—1968

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:

The Superintendent,
Seismological Observatory,
P.O. Box 8005,
Wellington, New Zealand.

CONTENTS

SCIENTIFIC STAFF 1964

WELLINGTON

Superintendent:	F.F. Evison, M.A., B.Sc. (N.Z.); Ph.D. (Lond.); D.I.C. (until June). R.D. Adams, M.A., M.Sc. (N.Z.); Ph.D. (Cantab.). (from August).
Seismologists:	G.A. Eiby, M.Sc.; M.G. Muir, M.Sc.; M.J. Randall, M.Sc.; A.A. Thomson, M.Sc.; R.M. Young, B.Sc.
Technical Officers:	M.A. Lowry; R.H. Orr.
Technicians:	A.M. Crowther; A.M. Day; C.M. Fisher; J.A. Macdonald; R.C. Martindale; R.D. Maunder.

APIA

Observer-in-Charge: P.J. Milne, B.Sc.

Observer/Technician: I. Anapu.

RAOUL ISLAND

Observer: I.P. Johnson.

HALLETT

Observer: N.M. Ridgway.

SCOTT BASE

Observer: D.R. Miller, B.Sc. (Hons.) (Nott.)

INTRODUCTION

The New Zealand Seismological Report for 1964 differs in both content and arrangement from its predecessors. The changes that have been made result from the growth of the recording network, the introduction of electronic computing, and changes in the requirements of the international seismological centres. Its aim is still to summarise the standard measurements carried out at the Seismological Observatory, Wellington, and to provide a connected account of New Zealand earthquakes that will be of general use and interest.

The first section of the Report deals with the present recording network, the positions of the individual stations, and the characteristics of the instruments at each station. Stations are now identified by the three-letter station codes allotted by the U.S. Coast and Geodetic Survey. These designations are coming into international use and seemed likely to displace the old two-letter codes previously used in the Report.

The next two sections are concerned in the main with New Zealand earthquakes. First comes a descriptive account of shocks which by reason of their size, position, or relationship to other activity are considered of special importance. It is followed by a list of epicentres and origin times and particulars of the phase arrivals at the different recording stations. The epicentre calculations and the tabulation of these data are now carried out by electronic computer, which makes it possible to list all the relevant data, and to calculate the differences between the observed times of arrival and those computed on the basis of the adopted origin and the standard travel-time tables. However, it is no longer possible to incorporate the data for the larger shocks in the distant earthquake lists as was done in the past, and it will be necessary for readers to peruse both sections of the Report before they can conclude that a given earthquake was not recorded in New Zealand. The felt earthquake data follow the established pattern, but are now placed with the New Zealand station readings rather than at the end, as in previous Reports.

The station readings for distant earthquakes can now be listed by computer, and the record amplitudes reduced to true ground movement. The distance and azimuth of the epicentre from Wellington is also calculated. In 1964, only the N.Z. Stations and the Scott Base readings have been treated in this way, the other stations being listed as in previous years. In 1965, the readings will be presented in two lists, one for the stations within New Zealand, and the other for the rest.

The Report concludes with a list of research papers published by members of the staff, details of observatory publications and exchange agreements, and maps of epicentres and felt intensity distribution. It is hoped that the changes made in this issue will add to the usefulness of the Report, and eventually reduce delays in publication.

STATIONS OF THE NEW ZEALAND NETWORK

THE NETWORK IN 1964

The New Zealand Seismograph Network not only covers the two main islands of New Zealand proper, but includes stations in adjacent territories from Samoa 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 distant earthquakes and the physical condition of the Earth. These functions interlock, and every seismograph gives some useful information in both fields.

During 1964, changes were made at two stations, one new station was opened, and an existing station was closed. Early in the year, a fire at Hallett badly damaged the station, established as a joint NZ/USA venture for the International Geophysical Year. The original seismograms were lost, but preliminary readings had been radioed to Wellington and are included in this Report. The obsolescent Milne-Shaw seismographs at Auckland and Suva were replaced, the former by a Willmore MkI instrument with a photo-cell amplifier and a pen-recorder, which is on display to the public in the Auckland Museum, and can be used to obtain rapid information about shocks of immediate interest. The new Suva instrument is a Willmore MkII with conventional photographic recording. The new station at East Cape, which has a similar instrument, will improve the azimuthal distribution of stations recording many North Island earthquakes.

INDEX OF THREE-LETTER STATION CODES

Throughout the tabular sections of this Report, stations are identified by the international three-letter code abbreviations allotted by the U.S. Coast and Geodetic Survey. Codes for stations of the New Zealand Network are listed below.

Afiamalu	AFI	Gisborne	GNZ	Roxburgh	ROX
Apia	API	Hallett	HLL	Scott Base	SBA
Auckland	AUC	Kaimata	KAI	Suva	SUV
Bunnythorpe	BUN	Karapiro	KRP	Tarata	TNZ
Chateau	CNZ	Monowai	MNW	Tongariro	TON
Cobb River	COB	Onerahi	ONE	Tuai	TUA
East Cape	ECZ	Raoul Island	RAO	Wairakei	WNZ
Gebbies Pass	GPZ			Wellington	WEL

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	-0.138 883	-0.238 862
API	13 48.4 S	171 47.5 W	2	-0.961 484	-0.138 980	-0.237 132
AUC	36 51 36 S	174 46 41 E	79	-0.798 711	+0.072 996	-0.597 271
BUN	40 17.0 S	175 38.1 E	60	-0.762 783	+0.058 225	-0.644 027
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
ECZ	37 41 37 S	178 32 46 E	40	-0.793 026	+0.020 128	-0.608 855
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	-0.688 397
HLL	72 18.8 S	170 12.5 E	3	-0.301 223	+0.051 985	-0.952 135
KAI	42 31 33 S	171 24 31 E	82	-0.730 944	+0.110 432	-0.673 443
KRP	37 55 30 S	175 32 15 E	64	-0.788 423	+0.061 530	-0.612 049
MNW	45 46 49 S	167 37 07 E	155	-0.683 548	+0.150 055	-0.714 315
ONE	35 46 33 S	174 21 45 E	30	-0.809 242	+0.079 881	-0.582 020
RAO	29 15.1 S	177 55.1 W	110	-0.873 304	-0.031 743	-0.486 140
ROX	45 28.5 S	169 18.9 E	106	-0.691 421	+0.130 458	-0.710 575
SBA	77 51 01 S	166 45 22 E	38	-0.206 194	+0.048 529	-0.977 307
SUV	18 08 56 S	178 27 26 E	6	-0.950 524	+0.025 601	-0.309 595
TNZ	39 11 14 S	174 22 49 E	123	-0.773 432	+0.076 103	-0.629 249
TON	39 12 10 S	175 32 17 E	1120	-0.774 642	+0.060 447	-0.629 505
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	-0.750 478	+0.068 739	-0.657 311
WNZ	38 37 53 S	176 06 10 E	350	-0.781 416	+0.053 234	-0.621 736

STATION 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, unless some other period is stated.

	Instrument	Compt	To	Tg	Damping	Magnification
AFI	AFIAMALU					
	World-Wide Standard Station					
	Foundation: Basaltic lava flows.					
	Benioff	ZNE	1.0	0.75		12500 at 1.0 sec
	Press-Ewing	ZNE	30	100		750 at 30 sec
API	APIA					
	Foundation: Coral sand on Recent and Pleistocene basalt.					
	Wood-Anderson	NE	0.8		crit	2050
AUC	AUCKLAND					
	Foundation: Volcanic beds on Tertiary sandstone and mudstone.					
	Milne-Shaw until 1964 Nov	N	10		20:1	150
	Willmore I (photo-cell amplifier used with pen-and-ink recorder)	Z	1	2		7600 at 0.8 sec
BUN	BUNNYTHORPE					
	Strong motion station without automatic time signal recording. Foundation: Gravels, silts, and sands.					
	Imamura	Z	2		5:1	1
		NE	8		5:1	1
CNZ	CHATEAU					
	This station is operated primarily for volcanological research, and is under the control of the Geophysical Survey. Records are made available to the Observatory for seismological study. Foundation: Volcanic ash and lava.					
	Willmore I	Z	1.0	0.25		41900 at 0.2 sec
COB	COBB RIVER					
	Foundation: Schist.					
	Wood-Anderson	E	0.8		crit	2800
ECZ	EAST CAPE					
	Station opened 1964 July. Foundation: Mudstone and Sandstone.					
	Willmore II	Z	1.0	0.25		3700 at 0.3 sec
GNZ	GISBORNE					
	Foundation: Alluvium on Tertiary mudstone.					
	Willmore I	Z	1.0	0.25		8900 at 0.3 sec
GPZ	GEBBIES PASS					
	Foundation: Rhyolite.					
	Wood-Anderson	N	0.8		crit	2800

HLL	HALLETT					
	World-Wide Standard Station					
	Station closed in 1964 Feb after damage by fire.					
	Foundation: Frozen gravel-spit.					
	Benioff	ZNE	1.0	0.75		6250 (summer) 50000 (winter)
	Press-Ewing	ZNE	30	100		750 (summer) 1500 (winter)
KAI	KAIMATA					
	Foundation: Moraine and river gravels over Tertiary mudstone and sandstone.					
	Wood-Anderson	X	0.8		crit	2800
	This instrument is oriented so that the X component lies north-east.					
KRP	KARAPIRO					
	Foundation: Greywacke.					
	Willmore I	Z	1.0	0.25		37300 at 0.25 sec
MNW	MONOWAI					
	Foundation: Tertiary sandstone.					
	Willmore II					
	until 1964 Sep	Z	1.0	0.25		18200 at 0.25 sec
	from 1964 Sep	Z	1.0	0.25		28800 at 0.25 sec
ONE	ONERAHI					
	Foundation: Basalt.					
	Wood-Anderson	E	0.8		crit	2800
RAO	RAOUL ISLAND					
	Foundation: Volcanic rock.					
	Willmore I (This instrument recorded on 35mm film. Magnification given is for display on a film viewer enlarging 8 times.)					
	until 1964 Dec	Z	1.0	0.25		9400 at 0.2 sec
	Willmore II					
	from 1964 Dec	Z	1.0	0.25		4800 at 0.25 sec
ROX	ROXBURGH					
	Foundation: Chlorite schist.					
	Willmore I	Z	1.0	0.25		12100 at 0.25 sec
	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		6250 (summer) 25000 (winter)
	Press-Ewing	ZNE	30	100		750 (summer) 1500 (winter)
SUV	SUVA					
	Foundation: Hard, fine-grained calcareous marl.					
	Milne-Shaw until 1964 Feb	N	12		20:1	250
	Willmore II from 1964 Feb	Z	1.0	0.25		6500 at 0.2 sec

TNZ TARATA

Foundation: Pliocene mudstone.

Willmore I	Z	1.0	0.25		2300 at 0.67 sec

TON TONGARIRO

Foundation: Volcanic ash and lava.

Wood-Anderson	X	0.8		crit	2800

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

TUA TUAI

Foundation: Thick Tertiary sandstone and mudstone.

Willmore I	Z	1.0	0.25		3900 at 0.25 sec

WEL WELLINGTON

World-Wide Standard Station
Foundation: Greywacke.

Benioff	ZNE	1.0	0.75		6250 at 1.0 sec
Press-Ewing	Z	30	100		1500 at 30 sec
	NE	30	100		375 at 30 sec
Willmore I	Z	1.0	0.25		20100 at 0.25 sec
Wood-Anderson	NE	0.8		crit	1400
Imamura	Z	1		5:1	1
	NE	4		5:1	1

WNZ WAIRAKEI

Foundation: Pumice breccia.

Willmore I	Z	1.0	0.25		300 approx.

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 except the strong-motion station at Bunnythorpe. The arrangements used have been described by B.H. Olsson (N.Z. Journal of Science and Technology, Vol. 37 B, pp. 115-8, 1955 Sept.). Minute marks are derived in most cases from a quartz crystal clock, the remaining stations having an electric pendulum clock of the Synchronome type, or a marine chronometer fitted with electrical contacts. Stations of the World-Wide Standard Seismograph Network have the timing arrangements usual at such stations. At Suva and Raoul Island, the operator records several time-signals a day by depressing a hand-key when the signal is heard.

PRINCIPAL NEW ZEALAND EARTHQUAKES IN 1964

The year 1964 is unremarkable for large earthquakes, but unusual in the number and vigour of its earthquake swarms. Swarms are generally described as groups of related earthquakes, usually small, occurring in a short space of time and in a limited region, without an obvious principal event. The first of these was active in January and to a lesser extent throughout the year. Shocks 64/6a, 6b, 7, 13, 21, 22, and 23 all had shallow origins close to Mayor Island. Their magnitudes range from about 3¾ to 4. Most of them were felt at Maketu, and a few at Tauranga on the Bay of Plenty coast, with intensities possibly up to MM4. As is usual with swarms, other shocks were reported felt at about the same time, but cannot be instrumentally confirmed.

Throughout the year, small felt shocks were reported from Ngakuru, in the Whirinaki Valley, some 15 miles south of Rotorua. Shocks that could not be confirmed instrumentally have previously been reported from this district. However, epicentres were obtained for a shock of intensity MM4 reported on March 29 (64/93), which had a magnitude of 3.0; also for a series in July (64/218a, 219, 219a, 219b, 219c, 222, and 230) and again in December (64/403); but not for these in early and late November. The largest of these shocks was about magnitude 4. The epicentres of the early shocks lie systematically to the north of the felt area and are close to Rotorua, which did not report them. The December shocks are close to the northern limits of the important Taupo swarm discussed below, and not clearly distinguishable from it. Although there is little scatter in longitude, the latitudes of the epicentres assigned to shocks felt at Ngakuru scatter by about half a degree. It seems unlikely that all of this scatter is real. The apparent association with repeated deep activity from approximately the same epicentre but with focal depths between 200 and 300 km (64/238, 330, 331, 374, 382, 383, and 536) also calls for remark.

The six shocks felt at Opunake on August 16, 17, and 18 also seem to be of swarm type. Epicentres have been obtained for five of them (64/256, 258, 260, 260a, and 261). Magnitudes range from 2.9 to 3.8.

The interest in these three swarms is largely seismological, but the swarm that began in the Wairakei-Taupo area in December quickly came to the notice of the general public. Before the onset of the swarm, the seismograph at Wairakei had recorded an average of five or ten shocks a month originating within 15 miles of the station. Between December 3 and December 12, the number of such shocks rose to a maximum of about 35 in a three-hour period. The decline continued until the end of the year, but minor resurgences later took place, and conditions could not be considered quiescent until 1967 April or later. About the time of maximum, the largest shocks, which had magnitudes of about 4¾, were producing intensities up to about MM5 in Wairakei and Taupo. Although the shocks became most frequent about December 12, the largest shocks took place at the time of a secondary peak on December 21. Felt reports were confined to an area that includes Mangakino, Atiamuri, and all of Lake Taupo except the southern tip. A map showing the macroseismic area has been published by G.A. Eiby (Bulletin Volcanologique, Tom XXIX, 1966, p.64). The instrumentally determined epicentres are mainly concentrated in the western bay of the Lake and to the north of it. No significant damage was reported during the swarm, but the great number of shocks resulted in fairly general apprehension, heightened by the fact that in 1922 conspicuous faulting and some spectacular changes in the level of the lake shore accompanied a similar swarm.

The most important shallow earthquake in the immediate vicinity of New Zealand occurred on March 8 (64/72), and was centred off the west coast of

the South Island near Big Bay. This shock, of magnitude 6.3, was the largest since the magnitude 7.0 one in the same region in May 1960. No damage resulted, but the intensity reached MM5 or more over most of western Otago and southern Westland. The felt area extended over the whole of those provinces, and to Southland and the southern parts of Canterbury.

Further shocks occurred in Northland, following an outbreak in 1963 after a period of about half a century of almost complete quiescence. The shock of April 11 (64/105) had a magnitude of 3.9 and produced intensities of up to MM6 in the district around Kaeo, Otangaroa, and Totara North. The other shocks (64/34a, 106a, 108a, 108b, and 120a) were all small, with magnitudes below 3.

Two moderately large deep shocks occurred in the Bay of Plenty, on February 22 (64/52 and May 24 (64/158). The magnitudes were 5.9 and 5.8, and the focal depths 275 km and 188 km respectively. Neither gave rise to felt intensities above MM4, but the felt area in both cases extended south to Wellington.

The earthquake on September 12 (64/307) was the largest in the region to the south of New Zealand. It was felt not only on Stewart Island and in Southland, but also on Campbell Island. It had a magnitude of 6.8 and was centred 200 miles southwest of the South Island. On November 8 an earthquake of magnitude 6.7 (64/376) was more extensively felt in Southland, but not on Campbell Island although it was somewhat further to the south than the shock in September.

Large earthquakes in the south of New Zealand occurred near Lake Manapouri on April 15 (64/109) and at the northern end of Lake Te Anau on May 2 (64/124). Both were felt, but not more strongly than MM4. Their magnitudes were 5.2 and 5.0. The earthquakes on August 15 and 16 (64/252 and 254) were also magnitude 5.0, and were felt at Lake Manapouri. The shock felt in Stewart Island on October 6 (64/326) was also of magnitude 5.0 and had an epicentre to the west of the Island.

No exceptionally deep earthquakes occurred under New Zealand itself, but the Kermadec Trench region to the northeast of East Cape, as is usual, provided several shocks with depths greater than 400 km, for example those on September 5 (64/301), October 15 (64/342), and December 30 (64/551). None of these shocks was felt.

Two events beyond New Zealand had local effects. The magnitude 8½ earthquake in Alaska on March 28, the world's largest in recent years, set up a tsunami (seismic sea wave) that caused some minor damage at the head of Lyttelton Harbour.

In late November, a volcanic eruption from the Green Lake on Raoul Island in the Kermadec group caused the island to be evacuated from November 23 until December 6, with a consequent interruption of recording at the seismograph station. Before the eruption, the seismograph recorded many small earthquakes, the largest, on November 13, having a magnitude of 5.7. In the initial stages (about November 10) some 80 earthquakes an hour were being recorded, but the number fell between then and the time of the principal eruption, believed to have been phreatic in character, on November 20. An account has been published by J.Healy and others (Nature, Vol.205, pp. 743-5, 1965) and the seismological aspects discussed in more detail by R.D. Adams and R.R. Dibble (N.Z. J. Geol. Geophys. 10 (6), 1967).

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 or 33 km. The shallower depth is assigned if either of the phases Pg or Sg has been identified, and 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 local 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 epicentre solution or not.

The main list is followed by a short supplementary one containing only those shocks whose small magnitude or unfavourable position has resulted in insufficient data for and epicentre solution by computer. An asterisk following a reference number in the main list indicates that one or more earthquakes in the supplementary list come next in chronological order.

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.

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 001	JAN 01	09 58 39.1	41.35S	176.46E	48	4.0	1.7	13	8
002	02	04 47 12.6	46.29S	165.54E	33 R	4.6	1.0	7	4
003	02	09 29 50.0	44.65S	167.77E	33 R	3.9	1.3	6	4
004	03	18 11 35.5	34.74S	177.22W	283	5.4	2.1	7	5
005	06	14 30 30.8	32.20S	179.54W	195	5.4	4.4	8	6
006	07	18 11 37.0	41.49S	172.22E	12 R	3.5	1.4	12	7
007	09	18 18 18.0	37.32S	176.25E	33 R	3.3	0.5	5	3
008	09	21 47 11.5	42.29S	174.13E	12 R	4.9	1.7	18	10
009	10	10 09 19.9	38.03S	177.84E	126	4.4	3.0	12	7
010	11	04 56 35.3	40.69S	174.35E	33 R	4.1	1.9	11	8
011	11	07 27 08.0	44.46S	168.55E	33 R	3.7	3.8	7	4
012	11	10 28 08.0	39.66S	174.10E	212	4.1	1.4	9	6
013	11	13 09 19.7	37.47S	176.26E	33 R	3.6	1.2	11	5
014	11	15 54 47.4	48.84S	164.25E	33 R	4.3	0.3	4	2
015	12	02 11 17.9	38.77S	179.93E	33 R	4.1	1.2	8	5
016	13	12 13 38.6	36.94S	177.44E	33 R	4.1	1.5	10	7
017	15	04 53 20.1	37.99S	177.58E	33 R	3.7	1.9	5	3
018	15	12 14 20.3	38.38S	178.10E	33 R	3.6	1.6	5	3
019	15	14 47 24.4	40.42S	176.43E	12 R	4.4	2.0	23	9
020	15	22 07 24.2	44.61S	167.92E	33 R	4.5	1.9	7	4
021	17	10 43 17.2	37.41S	176.27E	33 R	3.8	0.4	5	4
022	17	13 08 21.1	37.41S	176.30E	33 R	4.0	1.6	7	4
023	17	14 03 05.7	37.01S	175.77E	33 R	3.2	0.9	4	4
024	18	10 06 13.7	36.90S	177.51E	283	4.5	2.1	14	10
025	18	12 18 48.6	39.31S	175.32E	152	3.7	1.5	13	9
026	19	23 17 11.0	41.33S	174.91E	33 R	3.1	3.1	6	4
027	20	19 23 37.2	44.90S	167.75E	33 R	4.3	1.2	8	5
028	22	20 43 11.6	37.70S	177.44E	33 R	4.1	2.8	13	9
029	23	01 28 28.2	38.54S	178.03E	112	4.0	2.1	8	8
030	28	10 49 33.1	38.88S	176.04E	154	3.9	1.2	12	9
031	29	04 00 30.6	33.28S	179.84W	451	5.4	1.5	12	9
032	30	21 08 56.1	39.09S	176.01E	126	4.4	1.1	13	9
033	31	15 00 54.1	39.78S	174.27E	193	4.3	1.6	15	9
034	FEB 01	20 56 03.0	39.34S	174.78E	227	4.3	1.2	17	12
035	03	18 48 02.0	38.95S	175.76E	12 R	2.9	1.5	14	7
036	04	02 18 18.6	40.42S	174.38E	12 R	3.7	1.7	22	9
037	04	15 47 56.3	40.17S	175.13E	12 R	3.7	1.7	19	10
038	06	14 32 17.5	39.59S	175.79E	12 R	4.2	1.2	10	12
039	07	14 45 52.2	34.14S	177.31W	305	5.3	0.6	8	9
040	08	21 18 56.3	32.48S	177.48W	144	5.3	3.3	12	10
041	09	08 33 58.4	40.48S	173.38E	191	4.5	1.5	15	8
042	09	15 42 43.6	40.16S	176.84E	12 R	3.7	2.2	21	10
043	10	10 56 03.7	39.32S	177.42E	12 R	4.1	2.0	21	10
044	12	10 03 36.5	40.29S	173.45E	183	3.6	2.2	8	8
045	12	14 42 09.2	35.15S	179.28W	448	4.7	2.5	9	8
046	12	18 41 56.3	40.89S	175.14E	12 R	4.2	1.9	24	12
047	12	20 39 04.8	41.53S	172.85E	114	4.2	1.7	16	11
048	16	10 45 10.7	38.70S	176.07E	177	3.8	1.5	7	6
049	18	15 51 13.2	38.61S	175.77E	173	4.2	1.1	17	11
050	20	00 54 28.4	40.36S	174.05E	110	4.0	1.4	15	9

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 051	FEB 21	17 26 21.6	39.18S	177.23E	12 R	4.2	1.9	22	11
052	22	01 47 35.9	37.35S	176.47E	275	5.9	1.4	22	13
053	22	14 14 43.0	36.51S	177.82E	275	4.1	1.6	20	12
054	25	10 53 30.5	38.56S	175.82E	200	3.7	2.2	15	9
055	27	06 38 55.5	36.99S	178.66E	12 R	4.0	2.3	14	9
056	27	14 02 10.1	39.03S	175.71E	12 R	3.2	1.7	12	8
057	28	02 14 26.7	35.93S	179.50E	200	4.6	1.7	11	9
058	28	10 33 10.7	40.78S	174.36E	12 R	3.5	2.2	13	7
059	28	15 54 07.1	42.35S	174.10E	12 R	3.9	2.9	28	11
060	28	16 49 06.6	35.87S	179.45E	204	4.3	0.9	11	9
061	28	16 51 27.5	42.22S	173.87E	12 R	3.4	1.7	15	6
062	29	08 52 49.9	39.77S	175.40E	12 R	3.6	2.0	21	10
063	29	10 23 02.8	37.61S	179.67E	12 R	3.9	1.4	16	11
064	MAR 01	15 00 16.2	38.68S	176.72E	12 R	3.4	2.5	13	8
065	01	17 48 54.5	38.20S	175.94E	33 R	2.9	1.0	4	3
066	02	15 48 27.0	41.45S	172.04E	12 R	4.0	1.2	16	8
067	03	08 21 38.0	38.80S	176.10E	33 R	2.9	R	0	4
068	03	08 24 33.0	38.80S	176.10E	33 R	2.4	R	0	5
069	04	04 11 47.3	38.64S	175.80E	180	4.0	1.8	19	9
070	04	23 42 01.5	38.72S	176.86E	12 R	2.9	2.5	4	4
071	05	18 42 39.3	37.97S	176.52E	187	3.7	1.4	10	7
072	08	01 35 47.8	44.32S	167.76E	12 R	6.4	2.7	23	14
073	09	00 35 26.1	45.33S	167.53E	33 R	4.4	0.9	8	6
074	09	11 52 14.5	45.08S	167.74E	33 R	4.0	0.5	6	4
075	10	06 09 28.3	40.07S	174.27E	94	3.4	1.4	10	7
076	11	08 23 15.3	38.28S	176.32E	179	3.9	1.2	7	6
077	13	17 10 29.8	39.69S	175.61E	33 R	4.0	2.0	17	9
078	16	09 37 28.3	48.09S	166.75E	33 R	4.2	2.7	4	4
079	18	04 18 52.9	41.79S	174.44E	12 R	4.1	2.4	17	9
080	19	13 46 01.5	38.33S	176.44E	231	4.0	0.9	12	7
081	19	14 01 20.5	32.65S	177.80W	505	5.5	1.3	7	5
082	19	18 23 40.6	39.08S	175.98E	189	4.0	1.7	11	7
083	20	01 25 43.3	38.56S	178.17E	33 R	3.7	0.1	4	2
084	20	04 04 32.8	38.59S	178.11E	33 R	3.5	0.3	4	2
085	23	22 02 51.0	40.05S	175.54E	33 R	3.3	0.7	6	4
086	24	07 01 57.1	38.30S	176.27E	182	4.0	1.2	12	9
087	26	08 10 19.6	47.54S	165.81E	33 R	4.1	5.1	5	3
088	26	15 51 07.7	40.15S	174.93E	33 R	4.3	2.1	17	9
089	28	02 28 42.0	38.22S	176.19E	210	4.6	1.2	12	10
090	28	03 38 52.4	46.43S	166.54E	33 R	4.4	2.7	5	3
091	28	10 06 52.7	44.51S	166.22E	33 R	4.4	17.0	4	3
092	28	20 25 02.8	44.28S	168.76E	33 R	4.0	1.2	10	6
093	29	08 57 17.1	38.18S	176.37E	33 R	3.0	ND	3	2
094	29	09 01 20.7	44.39S	167.77E	33 R	4.1	0.9	9	5
095	31	05 55 32.9	41.91S	174.17E	33 R	3.9	1.9	14	7
096	31	09 32 34.0	42.34S	173.13E	33 R	3.2	1.6	11	6
097	31	22 47 32.9	40.85S	172.90E	12 R	2.9	2.4	6	5
098	APR 02	19 56 20.4	47.21S	166.06E	33 R	4.9	2.6	10	8
099	04	14 35 57.8	38.02S	176.80E	209	4.0	2.0	9	6
100	05	20 15 11.9	38.73S	175.71E	186	4.5	2.2	15	10

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 101	APR 06	06 05 32.3	39.66S	174.28E	232	4.3	1.7	14	9
102	07	19 54 07.2	41.73S	171.50E	12 R	2.7	1.2	8	3
103	09	10 55 58.7	39.21S	174.82E	219	3.9	1.5	10	6
104	10	09 56 25.6	38.22S	176.51E	193	4.0	2.4	14	8
105	11	14 45 00.5	35.11S	173.94E	12 R	3.9	3.0	15	9
106	11	21 22 05.8	35.39S	178.59E	332	4.9	1.6	12	8
107	12	11 10 49.9	34.11S	179.37W	259	6.7	2.5	18	10
108	14	04 32 11.6	38.09S	176.59E	182	4.7	1.7	17	10
109	15	15 02 31.7	45.49S	167.35E	33 R	5.2	1.8	18	11
110	15	16 52 25.2	37.71S	177.71E	12 R	5.0	2.2	19	10
111	16	07 44 52.1	37.45S	177.29E	179	4.3	0.6	9	6
112	16	19 15 48.1	32.25S	179.37W	345	5.2	2.9	7	5
113	19	02 51 18.5	41.14S	173.72E	12 R	3.9	1.9	19	7
114	19	05 18 48.1	37.42S	177.35E	206	4.4	2.1	13	9
115	21	13 46 07.6	39.28S	178.43E	12 R	3.9	1.1	19	10
116	22	17 29 41.4	37.51S	177.55E	155	4.7	0.6	15	10
117	23	08 04 31.4	40.87S	175.94E	12 R	3.0	2.0	15	6
118	23	11 46 53.6	31.54S	177.30W	269	5.5	7.0	9	7
119	24	08 05 12.7	37.56S	176.63E	297	4.3	1.4	17	11
120	24	09 05 43.4	38.40S	175.68E	204	4.1	2.0	13	9
121	27	09 20 19.8	41.46S	175.26E	12 R	3.4	1.2	11	6
122	27	09 47 10.6	41.37S	175.17E	12 R	3.3	2.4	10	5
123	29	08 46 30.7	38.89S	175.88E	167	3.7	1.8	8	8
124	MAY 02	02 27 59.9	45.05S	167.64E	33 R	5.0	1.1	12	7
125	02	07 17 36.3	37.87S	177.67E	139	4.5	1.3	10	7
126	02	10 06 11.0	37.38S	176.14E	33 R	3.6	1.4	5	4
127	03	12 38 13.4	41.07S	175.42E	12 R	4.0	2.1	16	8
128	04	21 04 47.2	44.86S	167.36E	33 R	4.1	0.0	4	3
129	05	18 03 28.3	39.24S	175.04E	186	5.1	1.9	24	14
130	06	20 31 28.5	32.83S	177.48W	255	5.5	5.1	11	10
131	07	00 45 00.4	38.67S	176.39E	63	4.2	2.4	12	10
132	07	16 31 19.8	38.94S	175.82E	12 R	3.5	1.8	11	9
133	08	11 47 13.9	41.60S	173.46E	33 R	4.8	0.9	22	13
134	08	22 54 36.3	37.55S	179.14E	111	4.4	1.4	8	8
135	09	02 39 09.4	38.82S	175.82E	33 R	3.4	2.8	9	9
136	09	07 11 47.9	39.19S	174.97E	214	4.2	1.5	14	9
137	10	17 23 14.3	39.34S	175.00E	153	5.0	1.8	20	11
138	11	08 32 55.1	36.35S	177.86E	275	4.5	0.8	8	6
139	12	01 57 19.2	38.01S	176.11E	227	4.6	1.6	17	11
140	13	13 24 53.7	44.87S	167.37E	33 R	4.1	1.4	6	4
141	15	01 56 45.6	39.23S	175.27E	33 R	3.3	1.0	7	4
142	16	04 24 26.5	38.51S	175.82E	188	4.2	1.7	13	9
143	17	07 03 06.0	37.58S	176.80E	307	4.7	1.2	15	9
144	19	22 43 52.0	35.10S	178.10W	33 R	4.6	0.7	4	5
145	19	22 55 41.1	35.51S	179.79W	33 R	4.4	8.9	4	5
146	20	06 06 20.7	35.65S	179.79W	100	5.4	1.8	13	11
147	20	06 18 30.2	35.40S	178.92W	223	4.9	1.6	6	6
148	20	12 33 16.3	41.52S	172.91E	102	4.6	2.6	22	13
149	20	19 29 21.2	39.26S	175.77E	12 R	3.3	0.9	6	7
150	20	22 23 53.6	35.65S	178.64E	33 R	4.5	4.9	8	9

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 151	MAY 21	07 14 48.9	34.94S	178.01W	33 R	4.6	ND	3	6
152	21	07 26 19.4	35.73S	179.53W	33 R	4.9	1.6	11	9
153	21	11 06 05.2	44.48S	167.62E	33 R	4.5	1.9	7	5
154	22	00 26 52.8	35.44S	179.89W	69	5.2	2.8	12	11
155	22	00 31 56.4	35.52S	178.69W	215	4.9	0.5	6	6
156	23	09 53 35.8	37.37S	178.85E	107	4.3	3.3	7	7
157	23	20 08 55.7	49.43S	163.99E	64	4.9	1.1	7	6
158	24	22 22 27.1	37.08S	177.44E	208	5.8	2.6	20	13
159	25	17 40 16.0	37.19S	177.68E	33 R	4.8	1.7	16	12
160	27	09 44 48.7	41.23S	173.41E	90	4.0	1.9	13	9
161	29	01 07 08.9	35.51S	178.91E	236	4.8	2.1	15	11
162	30	17 48 08.2	37.20S	178.19E	33 R	4.1	2.0	15	9
163	JUN 01	03 46 23.6	40.44S	178.73E	12 R	4.1	1.7	19	9
164	01	07 06 17.1	37.46S	177.27E	12 R	4.0	3.0	19	9
165	01	14 19 00.4	44.83S	167.66E	33 R	3.8	1.2	6	3
166	02	07 21 06.7	37.76S	176.29E	325	4.2	1.3	7	5
167	02	19 41 38.7	44.69S	167.86E	12 R	4.4	2.4	14	5
168	03	01 24 20.1	40.11S	175.05E	12 R	3.7	0.6	13	7
169	03	10 08 53.9	41.18S	175.40E	12 R	4.4	1.4	16	8
170	03	19 40 45.4	49.34S	163.67E	33 R	4.2	0.1	4	2
171	04	23 05 12.1	41.30S	175.10E	12 R	3.3	2.5	12	8
172	04	23 50 14.9	39.36S	176.02E	33 R	3.3	1.0	9	5
173	05	05 12 51.1	37.91S	179.45E	113	4.4	2.2	18	13
174	05	12 29 57.1	38.59S	179.85W	132	4.2	0.8	6	7
175	05	12 43 37.2	37.54S	177.68E	33 R	4.0	0.6	4	3
176	05	23 04 05.6	39.12S	175.17E	223	4.1	1.3	11	7
177	06	13 05 54.8	43.87S	170.53E	33 R	3.3	2.9	7	4
178	07	20 41 57.7	44.23S	170.93E	33 R	3.3	1.7	10	4
179	08	14 10 42.3	38.27S	176.34E	188	3.9	2.4	15	9
180	08	14 52 39.3	46.02S	168.07E	12 R	3.7	1.0	8	4
181	09	07 31 45.3	41.56S	172.25E	12 R	4.4	2.4	31	12
182	10	17 27 17.0	40.93S	177.10E	12 R	3.9	2.3	32	10
183	11	10 48 33.6	40.82S	177.11E	12 R	4.0	2.3	28	8
184	12	08 47 30.7	40.01S	178.44E	33 R	4.2	2.3	14	6
185	12	17 57 50.9	40.05S	178.09E	12 R	4.3	2.9	19	10
186	14	00 13 58.1	41.36S	172.32E	12 R	3.5	1.7	21	8
187	14	00 47 14.4	40.83S	174.53E	12 R	3.8	2.0	26	11
188	15	01 40 05.2	40.28S	178.75E	33 R	4.5	1.4	19	11
189	15	06 16 28.4	40.09S	174.79E	12 R	3.9	1.0	25	10
190	15	10 58 39.5	45.12S	167.64E	12 R	4.8	1.8	23	13
191	15	11 39 15.2	45.11S	167.40E	12 R	4.1	1.6	14	10
192	16	18 43 55.7	39.23S	177.33E	12 R	4.0	1.5	27	10
193	16	22 31 09.3	42.03S	172.82E	12 R	3.7	2.3	28	11
194	17	07 07 06.7	38.55S	175.98E	33 R	3.1	1.8	9	6
195	20	02 32 16.4	36.05S	179.45E	205	4.8	1.8	17	11
196	21	10 28 21.0	39.20S	179.64E	12 R	4.0	1.6	15	8
197	24	11 08 29.7	36.75S	178.36E	33 R	3.9	2.5	16	9
198	24	11 37 56.4	44.91S	167.70E	12 R	4.8	2.0	23	11
199	26	08 21 11.9	38.02S	178.40E	33 R	4.4	2.5	17	8
200	27	01 15 38.9	38.86S	176.42E	12 R	3.7	2.1	20	9

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 201	JUN 28	05 29 47.7	44.35S	167.84E	12 R	3.8	1.1	13	5
202	28	14 07 17.7	42.59S	173.34E	12 R	3.3	2.6	16	7
203	29	18 27 35.4	37.93S	176.94E	33 R	3.2	0.3	5	2
204	30	14 02 20.6	39.22S	175.19E	240	3.5	1.6	15	9
205	JUL 01	05 20 08.9	38.87S	178.22E	47	4.4	2.6	12	9
206	01	10 44 17.9	38.90S	177.81E	33 R	3.1	0.9	5	3
207	03	18 25 20.6	38.70S	176.11E	12 R	2.9	2.2	6	5
208	05	14 48 33.4	38.25S	176.00E	221	4.2	1.6	14	9
209	07	03 55 39.9	44.22S	168.64E	33 R	4.0	0.8	8	4
210	07	14 56 55.8	35.03S	179.18E	300	4.7	0.8	10	9
211	07	22 31 01.7	40.47S	176.53E	33 R	4.1	1.7	14	9
212	08	06 26 05.7	38.08S	176.46E	261	4.1	2.0	12	9
213	10	12 34 46.3	41.86S	171.54E	33 R	3.2	1.3	7	4
214	10	12 56 27.5	38.91S	175.45E	180	4.5	1.7	19	12
215	12	17 46 59.4	39.23S	175.08E	220	4.2	2.0	16	9
216	14	01 10 58.1	40.43S	179.85W	33 R	4.2	1.1	14	8
217	14	23 11 44.4	32.67S	178.92W	33 R	5.3	4.5	8	9
218	16	02 52 57.0	40.79S	176.07E	33 R	4.2	2.0	12	8
219	16	13 26 07.4	38.27S	176.13E	33 R	3.9	2.2	7	5
220	17	15 06 24.2	40.51S	176.43E	33 R	3.5	1.5	6	5
221	18	00 31 12.8	41.32S	175.09E	33 R	3.8	0.7	9	5
222	18	04 43 44.7	38.21S	176.08E	33 R	3.5	2.7	4	4
223	20	10 22 53.3	35.87S	179.85W	33 R	5.2	2.5	14	10
224	20	22 43 02.7	36.04S	179.89W	33 R	5.2	4.5	11	10
225	20	22 55 46.1	34.83S	179.25W	226	5.2	1.8	7	7
226	21	09 12 58.4	41.34S	175.02E	12 R	3.8	2.1	15	8
227	21	10 33 39.7	37.97S	177.31E	12 R	4.5	2.8	20	10
228	22	00 07 34.8	33.25S	179.90E	309	5.0	2.2	14	10
229	22	17 43 31.6	44.59S	168.22E	33 R	4.6	1.7	12	7
230	22	22 18 33.0	38.70S	176.10E	33 R	2.6	R	0	5
231	23	15 27 06.0	37.07S	177.07E	267	4.3	1.1	12	8
232	25	08 59 35.0	41.19S	175.29E	33 R	4.0	1.7	13	9
233	27	08 47 14.5	35.19S	178.91E	311	4.6	1.8	15	10
234	29	14 25 53.0	41.25S	174.13E	74	4.5	1.2	12	10
235	29	21 31 54.6	46.21S	166.82E	33 R	4.3	1.8	6	3
236	30	03 16 28.5	49.38S	164.53E	33 R	4.8	0.3	6	5
237	30	05 57 57.4	37.58S	175.68E	12 R	4.0	1.4	17	8
238	31	10 58 57.9	38.04S	176.21E	259	4.4	1.1	16	10
239	AUG 02	18 54 58.0	38.94S	176.01E	123	3.4	1.9	7	7
240	05	11 05 59.6	32.37S	179.37W	288	7.0	2.8	20	13
241	06	08 35 03.5	38.52S	176.05E	33 R	2.9	0.6	4	3
242	08	22 10 29.2	41.12S	175.70E	12 R	3.8	1.8	16	7
243	10	05 24 50.0	39.58S	177.34E	33 R	3.8	1.8	13	6
244	11	09 10 22.4	40.77S	173.25E	233	3.6	1.7	11	8
245	11	14 21 57.1	35.36S	179.65E	12 R	4.3	1.8	18	8
246	11	17 41 40.1	38.08S	176.57E	185	3.8	1.1	9	6
247	11	19 44 56.9	44.62S	168.29E	12 R	4.1	1.7	15	5
248	12	09 27 05.1	40.19S	175.06E	112	4.7	1.0	20	12
249	13	09 01 38.6	41.54S	173.71E	12 R	3.1	1.5	12	6
250	13	12 52 53.6	37.15S	177.44E	12 R	4.2	1.5	19	7

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 251	AUG 15	07 32 08.5	40.18S	175.05E	49	3.0	0.8	7	4
252	15	19 37 59.0	45.08S	167.17E	33 R	5.0	1.2	16	10
253	15	22 03 38.3	38.55S	179.20E	12 R	4.3	1.8	19	7
254	16	00 42 33.1	44.97S	167.68E	33 R	5.0	1.7	20	10
255	16	02 53 34.1	44.09S	167.82E	33 R	3.6	1.1	4	3
256	16	10 59 19.7	39.36S	173.77E	12 R	3.5	1.9	13	7
257	16	12 51 46.1	38.36S	176.05E	236	3.9	1.4	15	9
258	16	19 12 09.8	39.23S	173.56E	12 R	2.9	1.5	8	3
259	16	23 11 16.3	37.92S	178.06E	146	4.6	2.2	17	11
260	17	09 01 26.9	39.37S	173.53E	33 R	2.9	ND	3	2
261	18	06 38 22.5	39.45S	173.84E	12 R	3.8	1.8	18	7
262	19	10 38 23.5	40.64S	174.41E	96	3.8	1.9	10	6
263	19	10 54 16.6	38.25S	176.01E	213	4.5	2.0	14	9
264	21	13 16 08.5	37.53S	178.27E	193	4.2	1.9	14	9
265	21	18 47 11.4	44.87S	167.39E	33 R	4.2	1.5	7	4
266	22	05 57 57.0	40.55S	173.24E	195	3.4	2.3	7	6
267	22	06 20 24.7	40.13S	175.75E	12 R	3.7	1.8	18	8
268	23	08 39 31.8	41.92S	173.95E	12 R	3.8	2.1	25	9
269	24	02 37 17.5	37.40S	177.11E	258	4.2	1.4	16	10
270	24	13 06 18.4	38.51S	176.11E	189	3.5	2.4	13	8
271	24	13 07 39.7	38.79S	177.94E	12 R	4.7	2.2	27	10
272	24	13 09 50.8	38.98S	178.05E	33 R	3.8	0.1	4	2
273	24	13 10 27.8	38.98S	178.05E	33 R	3.6	0.1	4	2
274	24	13 12 24.7	38.83S	177.88E	33 R	4.4	1.7	19	10
275	24	13 22 08.0	38.90S	177.92E	33 R	3.4	1.7	10	5
276	24	13 32 09.6	33.01S	179.38W	33 R	4.7	3.6	16	10
277	25	02 01 44.6	38.94S	178.09E	33 R	3.3	0.1	4	2
278	25	02 37 12.0	42.10S	178.40E	33 R	3.9	R	0	5
279	25	02 37 16.7	39.00S	178.13E	33 R	3.8	0.4	4	2
280	25	10 29 54.8	40.39S	173.56E	216	3.7	1.4	15	9
281	25	22 43 47.0	41.36S	172.63E	199	4.0	1.2	15	8
282	25	23 52 56.2	40.58S	176.17E	12 R	4.5	1.3	24	11
283	27	06 58 16.3	37.71S	177.65E	159	4.3	2.4	14	11
284	27	07 34 19.6	39.24S	179.82E	33 R	4.4	1.5	17	11
285	28	16 32 57.7	37.57S	176.41E	243	4.9	1.0	18	11
286	29	07 28 23.9	40.56S	176.36E	12 R	3.8	1.4	24	10
287	29	10 51 40.4	38.86S	178.41E	12 R	4.2	2.0	24	9
288	29	10 54 54.2	38.98S	178.47E	12 R	3.3	1.4	6	3
289	29	13 06 41.9	38.23S	176.14E	220	3.6	1.3	12	9
290	29	16 03 59.4	38.90S	178.47E	12 R	3.3	2.7	11	5
291	29	20 05 58.3	38.92S	178.41E	12 R	3.7	2.9	8	3
292	30	09 34 31.9	38.89S	176.37E	89	3.7	1.6	12	11
293	30	19 36 40.6	40.02S	178.79E	12 R	4.4	2.0	35	12
294	31	19 03 04.5	41.01S	176.01E	12 R	3.7	2.1	21	9
295	31	23 33 40.4	39.50S	177.64E	12 R	4.0	2.0	18	7
296	SEP 02	10 15 27.0	33.94S	178.25E	33 R	4.6	1.7	6	6
297	02	10 57 02.8	38.70S	175.97E	33 R	2.9	1.4	4	3
298	03	06 12 43.6	38.92S	175.83E	186	4.5	1.8	13	8
299	04	07 37 05.4	44.64S	168.11E	33 R	4.9	1.4	15	10
300	04	18 20 51.1	40.26S	173.22E	204	4.3	1.4	10	10

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 301	SEP 05	02 17 17.0	32.60S	179.72W	448	6.2	2.6	21	12
302	06	23 42 12.5	40.56S	173.52E	163	4.7	1.7	18	11
303	08	23 31 59.3	39.59S	176.22E	12 R	4.2	2.4	18	10
304	11	16 27 14.9	38.53S	175.85E	210	4.2	0.9	7	9
305	11	21 05 22.9	40.09S	174.96E	12 R	3.9	3.2	15	9
306	12	19 51 30.6	39.50S	175.87E	12 R	4.2	1.6	12	8
307	12	22 07 05.2	49.23S	164.61E	33 R	6.8	2.5	17	14
308	12	22 42 41.0	37.44S	177.25E	275	4.4	1.6	15	10
309	16	10 20 30.6	41.66S	174.25E	33 R	3.4	1.9	10	8
310	17	01 04 02.9	40.56S	173.48E	146	4.0	2.2	20	11
311	17	06 29 34.4	40.07S	175.08E	33 R	3.6	2.3	9	8
312	17	07 53 25.1	33.53S	179.87W	33 R	4.3	1.2	6	5
313	18	20 43 23.5	37.97S	176.20E	318	4.3	1.2	10	7
314	20	11 33 21.7	34.48S	176.26W	166	5.3	ND	4	6
315	21	14 12 28.1	39.10S	175.26E	12 R	3.8	1.9	13	10
316	22	00 13 46.0	40.96S	174.86E	12 R	3.9	2.1	11	8
317	23	03 08 33.0	38.60S	178.18E	33 R	3.3	3.0	4	4
318	23	18 22 45.8	38.64S	176.01E	12 R	3.7	3.1	4	4
319	24	15 14 20.8	38.46S	175.98E	33 R	3.2	1.7	6	5
320	25	11 03 05.8	41.70S	171.52E	33 R	4.3	1.5	17	7
321	OCT 02	03 19 14.0	49.89S	164.90E	33 R	4.4	0.6	5	3
322	02	10 32 53.1	47.86S	163.57E	236	4.3	0.6	5	3
323	04	09 21 00.7	38.70S	175.73E	12 R	3.4	2.5	8	5
324	04	16 43 35.0	38.67S	178.14E	101	4.8	2.0	13	8
325	05	09 32 24.6	38.10S	177.26E	33 R	3.8	3.1	9	7
326	06	01 34 42.0	47.62S	164.58E	99	5.0	1.3	8	5
327	06	21 39 22.9	40.71S	174.23E	119	4.7	2.1	14	9
328	07	03 44 36.4	39.01S	175.53E	142	4.4	1.6	15	9
329	07	22 02 38.3	42.08S	174.36E	33 R	4.0	4.2	9	5
330	08	22 48 34.0	38.13S	176.01E	300	5.3	0.9	19	10
331	09	03 34 01.9	38.24S	176.00E	203	4.0	1.6	10	7
332	09	22 00 19.6	49.73S	164.43E	33 R	4.7	1.3	7	4
333	11	08 33 50.2	33.79S	178.91W	33 R	4.8	3.9	10	8
334	11	15 46 15.1	49.61S	164.46E	33 R	4.4	1.9	6	4
335	13	17 29 28.7	38.54S	175.62E	12 R	3.2	1.2	6	3
336	13	19 12 45.7	37.84S	176.34E	221	4.1	1.2	9	7
337	14	02 02 59.2	37.86S	177.10E	33 R	4.1	4.4	12	7
338	14	02 21 32.9	44.93S	166.04E	33 R	4.7	1.2	7	6
339	14	16 59 52.3	41.94S	171.76E	12 R	3.4	1.0	10	5
340	14	20 05 47.6	38.35S	176.23E	144	4.3	1.6	14	9
341	15	05 43 50.0	38.66S	175.77E	12 R	3.6	1.3	11	6
342	15	11 05 11.9	32.88S	179.59W	439	5.7	1.3	10	7
343	15	16 25 13.7	40.28S	173.52E	194	4.1	2.0	12	8
344	15	19 08 09.9	38.51S	176.04E	162	4.5	1.5	12	8
345	17	12 39 21.0	50.00S	165.00E	33 R	4.5	R	0	4
346	18	00 10 21.7	40.78S	173.51E	153	4.0	2.1	15	9
347	20	07 43 53.0	45.79S	168.43E	160	4.9	0.5	11	7
348	20	17 11 52.7	38.61S	175.83E	33 R	3.4	1.3	7	4
349	20	20 17 33.4	38.95S	175.88E	162	4.2	1.8	12	8
350	21	05 02 34.9	38.69S	175.79E	12 R	3.5	0.6	7	4

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 351	OCT 22	07 44 27.2	44.91S	167.89E	90	4.7	2.6	14	8
352	22	08 04 24.0	38.57S	175.81E	12 R	3.4	1.3	9	5
353	23	17 25 22.6	40.60S	174.63E	120	4.4	2.6	16	11
354	24	10 58 29.6	38.65S	175.78E	12 R	3.4	0.3	8	6
355	24	15 37 44.8	49.50S	164.61E	33 R	4.6	2.2	6	4
356	25	14 56 06.1	44.90S	167.61E	80	4.4	1.9	9	5
357	26	03 02 56.3	40.33S	173.53E	182	3.8	2.2	10	7
358	26	18 00 49.8	38.91S	175.43E	240	4.2	0.8	8	6
359	27	00 40 46.1	37.16S	177.52E	249	5.2	1.9	19	11
360	27	10 29 33.4	38.61S	175.69E	12 R	2.8	2.1	6	4
361	30	04 54 09.0	42.30S	171.63E	12 R	2.7	1.8	5	3
362	30	06 55 34.6	38.67S	175.74E	178	3.8	1.7	16	10
363	NOV 01	13 51 28.5	39.19S	175.46E	139	3.6	1.6	13	8
364	01	17 00 05.0	41.91S	174.09E	12 R	3.6	1.4	21	7
365	01	21 16 59.5	38.57S	175.94E	180	3.7	2.2	14	8
366	01	22 12 42.2	37.65S	177.49E	209	4.4	1.6	19	11
367	02	12 00 26.8	40.51S	174.34E	100	4.0	2.0	17	10
368	02	17 49 49.8	41.88S	174.66E	12 R	3.8	2.6	32	11
369	02	17 51 24.8	41.91S	174.58E	12 R	3.2	1.5	9	6
370	03	10 07 41.7	36.35S	179.52E	291	4.1	0.9	10	7
371	05	11 43 18.7	42.49S	172.85E	12 R	3.3	1.4	21	8
372	05	12 16 21.2	38.59S	177.46E	12 R	4.4	2.1	36	13
373	05	14 12 19.3	33.84S	179.43W	355	4.8	1.2	15	12
374	07	08 24 09.4	38.32S	176.11E	210	4.4	1.7	24	14
375	07	20 45 01.5	45.32S	171.99E	33 R	4.2	2.3	17	9
376	08	02 43 52.9	49.93S	164.30E	33 R	6.7	4.2	20	13
377	09	17 52 05.8	50.16S	164.67E	33 R	4.2	0.1	4	2
378	11	20 21 06.8	39.40S	178.19E	12 R	4.6	1.6	34	13
379	12	00 28 24.3	37.67S	176.49E	12 R	3.3	0.7	9	4
380	12	07 13 04.9	38.76S	175.71E	170	3.5	1.6	11	9
381	13	10 34 35.7	38.95S	176.00E	12 R	3.8	1.5	18	8
382	13	17 36 16.5	38.26S	176.21E	250	4.1	1.1	12	8
383	14	05 52 22.7	38.16S	176.39E	237	4.0	1.1	15	11
384	15	00 53 50.0	39.61S	174.25E	242	3.9	1.3	14	8
385	15	09 21 16.6	40.65S	176.66E	12 R	4.0	1.5	34	9
386	18	11 16 18.2	40.90S	174.02E	121	3.7	1.3	10	8
387	20	07 02 44.0	39.26S	176.86E	12 R	4.8	1.8	36	14
388	20	08 53 24.5	35.71S	178.48E	293	4.2	1.2	12	8
389	20	09 49 45.7	37.22S	177.08E	280	4.2	1.0	11	8
390	20	21 20 19.2	39.23S	176.02E	80	4.2	1.8	16	12
391	21	04 22 02.3	45.99S	166.48E	12 R	4.3	0.8	7	4
392	22	00 23 48.2	40.05S	176.93E	12 R	3.7	2.0	12	8
393	22	08 36 32.2	38.29S	177.00E	33 R	3.7	1.9	19	10
394	22	09 05 33.3	38.64S	175.84E	190	4.1	1.3	19	12
395	23	06 33 30.0	40.68S	176.49E	12 R	3.6	2.1	20	9
396	23	11 33 12.1	39.22S	174.87E	229	4.0	1.5	21	13
397	25	15 38 29.2	40.61S	174.34E	116	3.7	1.0	14	9
398	28	20 19 24.0	38.60S	176.10E	12 R	2.6	R	0	2
399	29	10 14 36.4	38.37S	176.07E	214	3.5	1.3	11	8
400	DEC 04	08 01 09.0	36.56S	180.00E	162	4.6	1.2	10	10

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 401	DEC 04	12 20 51.3	38.70S	175.82E	12 R	3.3	1.3	7	5
402	05	03 13 24.3	38.66S	175.82E	12 R	3.6	0.6	11	5
403	06	03 36 41.1	38.18S	176.37E	12 R	3.4	1.7	4	5
404	06	07 25 58.1	40.06S	175.04E	33 R	3.9	0.9	10	7
405	06	07 26 10.1	40.08S	175.17E	33 R	3.7	1.4	8	6
406	06	15 06 52.1	40.07S	175.11E	33 R	4.2	1.6	17	10
407	06	15 15 48.2	40.06S	175.17E	33 R	3.4	1.3	12	7
408	07	08 24 43.6	38.63S	175.77E	12 R	3.0	0.6	6	4
409	07	14 23 43.5	38.72S	175.78E	12 R	3.4	1.3	11	7
410	07	19 02 47.0	38.71S	175.83E	12 R	3.8	0.5	12	8
411	07	20 24 28.0	38.71S	175.83E	12 R	3.6	1.1	13	8
412	08	07 56 24.8	38.72S	175.86E	12 R	3.4	0.7	11	6
413	08	17 22 19.0	38.71S	175.87E	12 R	3.6	0.6	8	5
414	08	19 45 09.1	38.64S	175.85E	12 R	3.5	0.9	7	5
415	09	00 56 08.4	38.66S	175.84E	12 R	3.8	0.6	8	5
416	09	12 38 38.4	38.74S	175.94E	12 R	3.3	0.7	5	5
417	09	12 40 37.2	38.81S	175.86E	12 R	3.3	0.9	7	5
418	09	13 27 20.8	38.67S	175.83E	12 R	3.9	0.7	12	8
419	09	21 45 08.5	38.64S	175.81E	12 R	3.3	1.0	8	4
420	10	01 02 30.0	38.65S	175.80E	12 R	3.2	1.2	10	6
421	10	11 39 12.1	38.53S	175.49E	168	4.5	2.1	22	14
422	10	14 59 43.9	38.59S	175.90E	12 R	3.4	0.8	8	5
423	10	15 24 24.4	38.64S	175.79E	12 R	3.2	1.3	5	3
424	11	04 24 34.9	38.65S	175.75E	12 R	3.4	0.6	8	5
425	11	18 39 28.2	38.59S	175.72E	12 R	3.0	ND	3	5
426	11	18 46 16.7	38.70S	175.88E	12 R	4.1	0.7	10	9
427	11	19 09 59.0	38.59S	175.78E	12 R	3.0	ND	3	5
428	11	21 04 01.1	38.72S	175.82E	12 R	3.9	0.6	12	7
429	11	23 38 39.9	38.73S	175.80E	12 R	4.1	0.7	11	7
430	12	00 32 10.6	38.65S	175.85E	12 R	3.7	0.5	11	7
431	12	09 39 01.3	38.69S	175.88E	12 R	4.0	1.1	8	6
432	12	13 28 39.7	38.64S	175.87E	12 R	4.1	0.6	8	6
433	12	14 04 07.6	38.72S	175.77E	12 R	3.8	0.8	11	7
434	12	14 05 23.9	38.73S	175.77E	12 R	4.5	0.5	8	7
435	12	14 06 13.4	38.80S	175.83E	12 R	4.5	0.5	6	6
436	12	19 03 10.5	33.39S	179.08W	335	5.2	0.7	13	10
437	12	23 09 57.5	38.71S	175.81E	12 R	3.6	0.2	8	6
438	12	23 43 11.7	38.68S	175.83E	12 R	4.0	0.6	7	6
439	13	00 13 32.8	35.09S	177.37W	280	5.3	2.4	12	11
440	13	00 26 28.2	38.68S	175.81E	12 R	3.8	0.5	10	6
441	13	08 08 42.7	38.70S	175.80E	12 R	3.7	0.7	7	5
442	13	10 23 39.6	38.79S	175.77E	12 R	4.2	0.5	10	7
443	13	11 26 45.2	38.68S	175.82E	12 R	3.6	0.6	11	7
444	13	12 46 25.3	38.71S	175.83E	12 R	4.2	0.6	11	7
445	13	13 47 34.6	38.69S	175.83E	12 R	3.5	0.7	8	6
446	13	13 48 53.7	38.65S	175.84E	12 R	3.7	0.4	10	6
447	13	18 31 23.8	38.67S	175.81E	12 R	3.9	0.8	10	6
448	13	20 02 41.4	38.69S	175.84E	12 R	3.3	0.9	8	6
449	13	21 23 47.3	38.69S	175.78E	12 R	3.4	1.5	9	6
450	13	22 36 13.8	38.70S	175.87E	12 R	3.8	0.8	9	6

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 451	DEC 13	22 36 46.9	38.63S	175.91E	12 R	3.8	1.1	8	5
452	14	01 45 47.9	38.71S	175.81E	12 R	3.8	0.4	11	7
453	14	04 33 43.0	38.73S	175.84E	12 R	3.9	0.5	8	6
454	14	08 05 24.3	38.69S	175.83E	12 R	3.8	0.8	7	6
455	14	08 20 21.8	38.66S	175.84E	12 R	3.8	0.9	8	6
456	14	14 26 27.8	38.69S	175.83E	12 R	4.1	0.5	10	6
457	14	16 07 38.2	38.69S	175.82E	12 R	3.6	0.6	11	6
458	14	17 13 09.9	38.72S	175.84E	12 R	3.9	0.6	10	6
459	14	18 05 44.3	38.65S	175.76E	12 R	3.8	0.9	8	5
460	14	20 43 55.2	38.65S	175.85E	12 R	3.3	0.7	8	5
461	14	23 19 40.2	38.68S	175.87E	12 R	3.6	1.0	11	6
462	14	23 22 32.4	38.72S	175.82E	12 R	3.8	1.1	8	6
463	15	00 12 42.7	38.72S	175.84E	12 R	4.1	0.5	9	6
464	15	00 15 45.0	38.72S	175.87E	12 R	3.5	0.5	10	5
465	15	05 07 28.6	38.51S	175.81E	12 R	3.5	0.8	9	6
466	15	07 00 47.1	38.66S	175.85E	12 R	3.4	0.6	8	5
467	15	07 24 55.9	38.64S	175.86E	12 R	3.5	1.1	10	6
468	15	10 59 31.3	38.70S	175.82E	12 R	3.5	0.8	10	6
469	15	11 33 12.9	38.68S	175.79E	12 R	3.4	0.7	10	6
470	15	12 02 09.6	38.69S	175.82E	12 R	4.0	0.3	8	7
471	15	12 21 40.2	38.76S	175.41E	287	4.1	1.7	16	11
472	15	14 00 31.0	38.68S	175.86E	12 R	4.2	0.8	7	7
473	15	15 28 02.1	38.68S	175.80E	12 R	3.7	0.6	9	6
474	15	16 53 51.8	38.71S	175.81E	12 R	3.5	0.5	10	6
475	15	18 58 13.8	38.68S	175.81E	12 R	4.2	0.5	9	6
476	15	19 37 01.6	38.73S	175.85E	12 R	3.5	1.1	9	6
477	15	19 40 19.2	38.66S	175.85E	12 R	3.3	0.9	7	6
478	15	19 44 34.2	38.67S	175.84E	12 R	3.7	1.2	9	6
479	15	20 00 28.5	38.68S	175.85E	12 R	4.4	1.0	8	6
480	16	00 59 19.8	38.68S	175.81E	12 R	3.6	0.8	9	6
481	16	01 13 01.1	38.70S	175.84E	12 R	3.6	0.8	9	6
482	16	02 12 20.4	33.76S	178.82W	358	4.8	2.2	8	6
483	16	15 20 56.6	38.70S	175.84E	12 R	3.9	0.5	10	6
484	16	16 49 19.9	38.68S	175.83E	12 R	3.5	0.8	10	6
485	16	17 30 32.9	38.71S	175.79E	12 R	3.8	0.5	9	6
486	16	21 39 57.9	38.68S	175.88E	12 R	3.4	1.5	7	6
487	16	22 13 07.0	38.70S	175.84E	12 R	3.8	0.3	9	6
488	17	04 20 52.3	38.73S	175.84E	12 R	4.0	0.3	9	5
489	17	17 11 10.0	35.21S	178.93W	255	4.6	2.4	10	10
490	17	20 49 27.2	40.12S	175.22E	33 R	3.8	1.0	14	9
491	18	01 50 05.3	35.12S	179.12W	258	4.6	0.9	10	7
492	18	16 56 09.9	38.72S	175.82E	12 R	3.2	0.5	9	6
493	18	23 13 38.1	38.67S	175.85E	12 R	3.7	0.8	8	6
494	18	23 19 54.6	38.67S	175.85E	12 R	4.1	0.4	9	6
495	18	23 22 53.9	38.68S	175.87E	12 R	3.7	0.8	7	6
496	19	06 18 07.1	34.98S	179.86E	349	4.6	1.3	14	9
497	19	06 41 22.6	33.06S	178.75W	205	6.2	3.8	22	14
498	20	04 28 21.8	45.15S	167.00E	33 R	4.2	1.9	8	5
499	20	17 49 28.4	38.70S	175.83E	12 R	4.1	0.8	10	7
500	20	21 09 20.9	38.70S	175.84E	12 R	3.7	0.4	8	6

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 501	DEC 20	21 18 02.2	38.69S	175.83E	12 R	4.1	0.2	9	6
502	20	22 09 59.5	38.66S	175.84E	12 R	3.9	1.1	8	6
503	20	22 55 26.4	38.66S	175.84E	12 R	3.6	0.8	8	6
504	20	23 49 11.1	38.71S	175.84E	12 R	4.5	0.8	9	6
505	21	00 38 55.5	38.72S	175.86E	12 R	4.1	0.8	8	6
506	21	01 50 04.7	38.70S	175.81E	12 R	4.6	0.3	9	6
507	21	01 55 30.4	38.69S	175.85E	12 R	3.6	0.9	5	6
508	21	09 07 28.0	38.68S	175.78E	12 R	4.5	0.9	8	6
509	21	09 18 13.1	38.64S	175.84E	12 R	3.7	0.8	11	6
510	21	12 11 24.5	38.64S	175.86E	12 R	3.8	1.0	10	6
511	21	14 55 05.3	38.67S	175.80E	12 R	4.4	1.1	10	6
512	21	17 00 36.8	38.69S	175.81E	12 R	3.8	0.6	9	6
513	21	17 34 02.9	38.69S	175.80E	12 R	3.6	0.3	10	6
514	21	17 44 27.8	38.69S	175.83E	12 R	3.6	0.5	9	6
515	21	20 07 42.6	38.70S	175.80E	12 R	3.8	0.4	8	6
516	22	01 55 30.1	38.69S	175.83E	12 R	4.1	0.7	8	6
517	22	06 18 26.7	38.67S	176.27E	12 R	2.5	0.8	7	4
518	22	10 34 49.0	38.69S	175.86E	12 R	3.7	0.5	9	6
519	22	20 15 40.2	38.68S	175.85E	12 R	4.4	1.1	7	6
520	22	20 20 12.2	38.69S	175.86E	12 R	3.7	0.6	7	6
521	22	21 45 43.6	38.67S	175.84E	12 R	4.3	0.3	7	6
522	22	22 41 19.3	38.73S	175.82E	12 R	3.5	0.3	7	6
523	23	12 09 56.4	38.69S	175.85E	12 R	3.5	0.3	6	5
524	24	05 57 19.1	38.65S	175.84E	12 R	4.3	0.6	11	6
525	24	10 24 16.2	38.68S	175.89E	12 R	3.6	0.3	9	6
526	24	15 11 03.2	38.70S	175.79E	12 R	4.0	0.3	7	6
527	24	15 50 27.3	38.70S	175.79E	12 R	3.9	0.2	8	6
528	24	17 50 12.6	38.69S	175.81E	12 R	3.9	0.5	5	5
529	25	15 40 19.6	38.73S	175.81E	12 R	4.0	0.4	7	5
530	25	20 09 50.9	38.73S	175.80E	12 R	4.5	1.0	12	7
531	25	20 10 26.6	38.69S	175.89E	12 R	4.5	0.6	4	6
532	25	20 17 54.3	38.69S	175.82E	12 R	4.2	0.8	7	5
533	27	08 21 10.7	34.22S	179.13E	144	4.3	1.5	9	8
534	27	11 49 23.3	40.11S	175.11E	33 R	3.7	1.1	12	8
535	27	23 15 03.7	38.72S	175.83E	12 R	3.9	0.4	9	6
536	28	02 46 20.6	38.21S	176.09E	212	4.4	1.9	15	9
537	28	05 41 43.3	38.67S	175.87E	12 R	3.7	1.5	10	7
538	28	05 48 33.0	38.70S	175.83E	12 R	3.8	1.0	9	7
539	28	07 49 56.3	38.71S	175.84E	12 R	3.6	0.4	9	7
540	28	09 20 16.9	38.73S	175.79E	12 R	3.4	0.7	9	7
541	28	10 03 55.1	38.77S	175.80E	12 R	3.2	ND	3	3
542	28	10 03 57.2	38.75S	175.78E	12 R	4.2	0.8	7	6
543	28	10 04 04.0	38.80S	175.75E	12 R	4.6	0.5	8	6
544	28	13 22 48.4	38.70S	175.76E	12 R	4.1	1.3	9	7
545	28	13 24 01.0	38.73S	175.82E	12 R	4.0	0.4	8	6
546	28	16 57 41.5	38.72S	175.83E	12 R	3.9	0.6	9	7
547	29	14 24 52.2	44.58S	167.41E	33 R	3.9	3.7	5	3
548	30	04 44 22.1	39.52S	177.24E	33 R	4.3	1.5	12	9
549	30	10 30 11.9	38.66S	175.80E	12 R	4.4	1.2	18	11
550	30	13 08 00.1	38.86S	178.41E	60	4.3	2.3	13	10

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
64/ 551	DEC 30	16 04 26.8	31.83S	177.62W	555		1.2	6	7
552	30	16 12 52.2	38.72S	175.83E	12 R	3.7	0.6	7	6
553	30	16 35 23.8	33.55S	179.23W	239	4.7	0.7	6	9
554	30	22 39 08.5	38.73S	175.83E	12 R	4.4	0.5	7	6
555	31	07 13 56.0	38.72S	175.84E	12 R	3.8	0.5	10	6
556	31	08 22 41.5	38.71S	175.80E	12 R	3.8	0.7	8	6
557	31	13 09 14.8	38.71S	175.83E	12 R	3.9	0.9	9	6
558	31	17 05 10.6	35.91S	178.81E	203	4.1	0.8	10	9
559	31	17 56 30.7	38.70S	175.82E	12 R	3.7	0.6	8	6
560	31	21 28 40.3	38.73S	175.84E	12 R	3.9	0.3	7	6

SUPPLEMENTARY LOCAL EARTHQUAKE ORIGINS

The existence of the following shocks has been confirmed, but their small magnitude or unfavourable position has resulted in the data being insufficient for an epicentre solution by computer. The focal depth is given as S (shallow) when crustal phases are present in the records, and as N (normal) when there are no crustal phases and no other indication of focal depth.

004a	Jan	05	04 33 53	41.9S 176.2E	N	3.1
006a		09	17 59 03	37.4S 176.3E	S	-
006b		09	18 10 17	37.4S 176.3E	S	-
034a	Feb	02	10 41	35 S 173½ E	N	2
034b		02	21 42	38½ S 176 E	N	-
034c		02	21 51	38½ S 176 E	N	-
070a	Mar	04	23 42.7	Near Wairakei (41)		
070b		04	23 43.9	Near Wairakei (41)		
070c		04	23 55.1	Near Wairakei (41)		
097a	Apr	02	02 29.9	Near Wellington (68)		◀2
106a		12	02 44 30	35.0S 173.8E	S	3.0
108a		14	17 59.6	Near Totara North (6)		2
108b		15	12 01.0	Near Totara North (6)		2½
120a		25	01 07.6	Near Totara North (6)		-
131a	May	07	10 07.7	Near Wairakei (41)		
131b		07	16 22 14	38.8S 175.8E	S	3.0
155a		22	01 53.0	Near Wairakei (41)		
155b		22	01 54.8	Near Wairakei (41)		
155c		22	02 02.2	Near Wairakei (41)		
199a	Jun	26	11 02.2	Near Oponae (35)		3
218a	Jul	16	11 37	Near Ngakuru (33)		-
219a		16	13 40	Near Ngakuru (33)		-
219b		16	16 27	Near Ngakuru (33)		-
219c		16	18 55	Near Ngakuru (33)		-
237a		30	19 58 37	37.6S 175.8E	S	3.0
260a	Aug	17	20 10.3	Near Opunake (41)		2.7
296a	Sep	02	10 55 13	38.6S 176.1E	S	◀3
296b		02	10 55 27	38.6S 176.1E	S	◀3
296c		02	10 56 05	38.5S 176.0E	S	3±
296d		02	10 56 53	38.6S 176.1E	S	◀3
312a		18	20 39.0	Near Otangaroa (6)		-
316a		22	04 42 30	38.5S 176.1E	S	3.2
317a		23	18 15 30±	38½ S 176 E	S?	3±
317b		23	18 22 44	38.6S 176.0E	S	3.6
399a	Dec	03	23 20 -	Near Wairakei (41)		-
399b		03	23 28 -	Near Wairakei (41)		-
400a		04	11 50 -	Near Wairakei (41)		-
400b		04	11 55 -	Near Wairakei (41)		-
504a		20	23 52 -	Near Wairakei (41)		-

STATION READINGS

FOR 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 6.3 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 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. The restrictions are as follows:

1. Depth is restricted to 12 km if Pg or Sg phases are identified.
2. Depth is restricted to 33 km if:
   (a) P* or S* phases, but not Pg or Sg, are identified,
   (b) the number of readings is insufficient to determine depth,
   (c) the computer indicates that the depth is less than 33 km,
   (d) a solution is not obtained with the depth unrestricted.

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° = 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							64/ 001
JAN 01	09 58 39.1	41.35S	176.46E	48 KM	SE 1.7	AVG MAG	4.0	
	+- 1.0	0.07	0.07	30				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P	09 59 01.5		0.4	1.28	272	4.0		
	S	16.5		-1.0					
	E	26							
CNZ	P	09 59 16		1.2	2.26	342		4.3	3.2
	E	27.5							
TUA	EP	09 59 19		-0.7	2.59	12		4.0	4.3
	ES	48		-2.4					
TNZ	EP	09 59 23.5		2.5	2.69	323		3.9	4.2
	E	33							
	E	37							
	E	54							
COB	EP	09 59 24		1.0	2.83	274	4.0		
	ES	56		-0.3					
	E	10 00 15							
KRP	EP	09 59 31.5		-0.8	3.50	348		3.4	4.1
	E	42							
	E	49							
	E	10 00 35							
GPZ	EP	09 59 35		0.2	3.67	229	4.3		
	S	10 00 16		-1.2					
KAI	EP?	09 59 41		2.3	3.95	251	4.3		
	ES	10 00 23		-1.3					

	H M S							64/ 002
JAN 02	04 47 12.6	46.29S	165.54E	33 KM	SE 1.0	AVG MAG	4.6	
	+- 1.5	0.11	0.10	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IPN	04 47 35.6	D	-1.2	1.53	71			
ROX	PN	04 47 55		1.3	2.76	74		4.9	4.6
	ESN	48 25		0.1					
KAI	ESN	04 49 35		0.2	5.64	50	4.5		
GPZ	EPN	04 48 33		-0.2	5.66	65	4.5		
	EP*	51		0.2					
	E	55							
	ESN	49 35		-0.4					

	H M S							64/ 003
JAN 02	09 29 50.0	44.65S	167.77E	33 KM	SE 1.3	AVG MAG	3.9	
	+- 1.3	0.05	0.06	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P*	09 30 10		-1.0	1.14	185		4.2	3.9
	S*	28		1.5					
ROX	EP*	09 30 14		-1.0	1.37	128		3.7	3.9
	S*	33		-0.5					
KAI	ES*	09 31 34		0.2	3.39	53	3.9		
GPZ	ES*	09 31 42		0.8	3.64	77	3.5		

	H M S							64/ 004
JAN 03	18 11 35.5	34.74S	177.22W	283 KM	SE 2.1	AVG MAG	5.4	
	+- 3.5	0.47	0.53	65				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	18 13 10.5		-2.4	6.65	239			
CNZ	EP	18 13 22.5		1.6	7.30	230			
	ES	14 45		1.3					
WEL	EP?	18 13 44		0.9	9.09	222	5.5		
	S	15 22		-1.6					
KAI	ES	18 16 25		0.6	11.80	225	5.3		
GPZ	ES	18 16 26		-0.4	11.89	218	5.4		

	H M S							64/ 005
JAN 06	14 30 30.8	32.20S	179.54W	195 KM	SE 4.4	AVG MAG	5.4	
	+- 7.1	0.46	1.20	116				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ EP	14 32 14		5.8	6.73	197			
	ES	33 24		-0.2					
	KRP EP?	14 32 11		-0.6	6.99	214			
	E	16							
	TUA EP	14 32 08		-5.3	7.12	201			
	ES	33 34		0.6					
	WEL S	14 34 42		-2.0	10.15	205	5.5		
	ELR	36 24							
	KAI ES	14 35 43		3.1	12.56	212	5.3		
	GPZ ES	14 35 49		-1.3	13.02	206	5.5		

	H M S							64/ 006
JAN 07	18 11 37.0	41.49S	172.22E	12 KM	SE 1.4	AVG MAG	3.5	
	+- 0.6	0.04	0.06	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P*	18 11 45		-2.7	0.56	44			
KAI	P*	18 11 58		-0.5	1.19	210	3.5		
	S	12 16		0.3					
WEL	SN	18 12 32		-0.5	1.93	85	3.4		
GPZ	E(P)	18 12 15		2.1	2.22	172	3.3		
	ESN	39		-0.5					
TNZ	E(P*)	18 12 26		-0.6	2.84	36		3.8	3.6
	E(S*)	13 06		2.1					
CNZ	E(P)	18 12 29		-0.3	3.42	49		3.4	3.7
	EP*	37		0.3					
	ES*	13 22		0.4					
KRP	E(PN)	18 12 42		-0.3	4.39	37		3.4	
	E	13 01							

	H M S							64/ 007
JAN 09	18 18 18.0	37.32S	176.25E	33 KM	SE 0.5	AVG MAG	3.3	
	+- 0.7	0.04	0.02	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P*	18 18 34.3		0.3	0.83	223		3.7	4.0
	S*	45		-0.5					
GNZ	EP*	18 18 52		-0.3	1.92	134		3.5	
CNZ	EP*	18 18 53		0.2	1.96	196		2.9	2.6
	ES*	19 19		0.2					

	H M S							64/ 008
JAN 09	21 47 11.5	42.29S	174.13E	12 KM	SE 1.7	AVG MAG	4.9	
	+- 0.6	0.05	0.06	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P*	21 47 30.7	DSW	-0.8	1.10	26	5.0		
	S*	45		-1.4					
GPZ	(P*)	21 47 41.8		-1.3	1.78	217	4.5		
	E(S*)	48 05		-1.7					
KAI	PN	21 47 45		0.2	2.03	262	5.2		
	ES*	48 15		0.7					
TNZ	PN	21 48 01		1.5	3.10	4		5.0	5.6
	EP*	07		1.3					
	ES*	44		-2.4					
CNZ	PN	21 48 00.8		-0.8	3.26	20		5.4	
	EP*	10		1.5					
TUA	E(P)	21 48 18		4.2	4.17	34		4.3	
	I	31							
	E	49 07							
	E	29							
KRP	PN	21 48 17.5		-0.6	4.49	14		5.4	
	P*	29.5		0.1					
	ESN	49 09		0.0					
GNZ	PN	21 48 19		-1.9	4.69	40		4.5	5.3
	I	44							
ROX	EPN	21 48 22		0.7	4.72	226		4.3	
	EP*	39		5.6*					
	E	52							

		I		49 55							
		ELR		50 18							
	MNW	EPN	21	48 37		0.6	5.85	231		4.2	4.4
		ESN		49 48		6.2•					
		E(LR)		50 42							

	H	M	S								64/ 009
JAN 10	10	09	19.9	38.03S	177.84E	126 KM	SE	3.0	AVG MAG		4.4
		+-	3.2	0.15	0.15	17					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	10	09	41.0	D	1.4	0.63	167		4.5	4.9
	S			50		-4.7					
TUA	P	10	09	45	D	2.8	0.95	215		4.5	4.6
	ES			10 03		3.7					
KRP	P	10	09	51	D	-0.9	1.82	272		3.7	3.0
	ES			10 14		-2.2					
TNZ	P	10	10	09		2.3	2.95	246		4.1	
WEL	EP	10	10	22		1.0	4.03	215	4.8		
	S			11 10		2.2					
KAI	EP?	10	11	09		12.4•	6.66	226	4.8		
	ES			12 09		-2.5					
GPZ	EP	10	10	59		-0.8	6.90	213	5.0		
	S			12 15		-2.2					

	H	M	S								64/ 010
JAN 11	04	56	35.3	40.69S	174.35E	33 KM	SE	1.9	AVG MAG		4.1
		+-	0.6	0.03	0.06	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP•	04	56	49.3	USE	0.6	0.68	152	4.7		
	S•			59.5		1.1					
TNZ	P•	04	57	02.5		0.1	1.50	1		4.0	4.5
	ES•			22		-0.5					
	E			25							
	E			29							
CNZ	P•	04	57	06.0		-0.6	1.75	32		4.0	
	E			14							
KAI	EPN	04	57	21		3.1	2.87	229	4.2		
	SN			52		1.6					
KRP	EPN	04	57	19		0.6	2.91	19		3.2	3.3
	E			56							
	E			58 10							
GPZ	EPN	04	57	22		-1.3	3.26	202	4.5		
	SN			57		-2.9					
GNZ	E	04	57	45			3.49	55			
	E			52							
MNW	E(SN)	04	59	30		-1.9	7.08	222			

	H	M	S								64/ 011
JAN 11	07	27	08.0	44.46S	168.55E	33 KM	SE	3.8	AVG MAG		3.7
		+-	2.6	0.13	0.16	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ROX	P•	07	27	27		-2.2	1.15	152		3.7	4.2
	S•			43		-1.9					
MNW	P•	07	27	33.3		-1.3	1.47	206		3.9	3.6
	ES•			57		2.6					
	SG			28 01							
KAI	ESN	07	28	19		-3.4	2.84	48	3.4		
GPZ	E(P)	07	27	54		0.8	3.05	77	3.7		
	E(S)			28 33		5.5					

	H	M	S								64/ 012
JAN 11	10	28	08.0	39.66S	174.10E	212 KM	SE	1.4	AVG MAG		4.1
		+-	1.3	0.07	0.10	10					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	P	10	28	37.5		0.8	0.52	25		3.7	3.7
	ES			58		-0.9					
CNZ	P	10	28	41		0.3	1.21	68		3.7	3.8

		E		29 00							
		E		06							
	WEL	P	10	28 46.3		1.4	1.70	163	3.8		
		S		29 14		0.6					
	GNZ	P	10	29 00		-1.3	3.21	73		4.7	4.3
		E		32							
		E		39							
	KAI	S	10	29 49		0.1	3.51	215	4.2		
	GPZ	EP	10	29 14		0.9	4.18	195	4.8		
		S		30 01.5		-1.9					

	H	M	S								64/ 013
JAN 11	13	09	19.7	37.47S	176.26E	33 KM	SE	1.2	AVG MAG		3.6
		+-	1.6	0.12	0.04	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P•	13	09	33		-1.0	0.73	232		3.3	3.7
	S•			44		-0.3					
TUA	EPN	13	09	43		-0.6	1.51	153		3.6	
	EP•			45		-1.9					
CNZ	EP	13	09	50		2.2	1.81	198		3.6	
	IP•			53		0.9					
	I			10 23							
GNZ	EP?	13	09	49		1.1	1.82	131		4.0	
	EP•			52		-0.1					
TNZ	EPN?	13	09	54		0.1	2.26	220		3.6	3.5
	EP•			59		-0.7					
	E			10 04							
	ES•			30		0.4					
ONE							2.28	317	3.3		

	H	M	S								64/ 014
JAN 11	15	54	47.4	48.84S	164.25E	33 KM	SE	0.3	AVG MAG		4.3
		+-	0.5	0.06	0.07	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	15	55	43		-0.2	3.83	38		4.4	4.4
	S		56	26		0.1					
ROX	EP	15	55	57		0.2	4.83	48		4.1	4.2
	S		56	50		-0.1					

	H	M	S								64/ 015
JAN 12	02	11	17.9	38.77S	179.93E	33 KM	SE	1.2	AVG MAG		4.1
		+-	1.4	0.25	0.06	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P•	02	11	44.8		-0.2	1.50	274		4.9	4.4
	I			46							
	I			49							
	IS•		12	06		0.9					
TUA	EPN	02	11	52		1.0	2.17	268		3.9	4.0
	EP•			55		-1.5					
	ES•		12	24		-1.2					
CNZ	PN	02	12	08		-0.4	3.44	261		3.6	3.3
	E			15							
	ESN			48		1.0					
TNZ	EPN	02	12	21		0.3	4.35	▲263		4.2	
WEL	ESN	02	13	25		7.6•	4.70	236	4.4		

	H	M	S								64/ 016
JAN 13	12	13	38.6	36.94S	177.44E	33 KM	SE	1.5	AVG MAG		4.1
		+-	1.9	0.08	0.07	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP•	12	14	10	D	-0.2	1.77	165		4.0	4.6
	E			30							
	ES•			33		-0.7					
TUA	EP•	12	14	13		0.8	1.88	187		4.1	4.0
	ES•			38		0.8					
CNZ	P•	12	14	26		-0.3	2.71	213		3.5	3.0
	E			15 06							

	TNZ	EP•	12 14 35		-1.3	3.30	226		4.0			
	WEL	P	12 14 49		1.2	4.82	205	4.6				
		S	15 42		1.0							
	KAI	ES	12 16 41		1.3	7.26	218	4.7				
	GPZ	ES	12 16 47		-2.6	7.68	207	4.8				
	H M S											64/ 017
JAN 15	04 53 20.1		37.99S	177.58E	33 KM	SE	1.9	AVG MAG				3.7
	+_ 3.5		0.16	0.06	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	GNZ	IP•	04 53 34	U	-0.6	0.74	152		4.4	4.2		
		S•	44.5		-0.6							
	TUA	EP•	04 53 39		1.9	0.89	202		3.3	3.5		
		S•	50		0.7							
	TON	E	04 54 03			2.01	232	2.9				
		ES•	21		-1.4							
	H M S											64/ 018
JAN 15	12 14 20.3		38.38S	178.10E	33 KM	SE	1.6	AVG MAG				3.6
	+_ 3.1		0.18	0.07	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	GNZ	IP•	12 14 28	U	0.4	0.27	193					
		S•	33		0.2							
	TUA	P•	12 14 36		-0.9	0.86	240		3.7	4.1		
		S•	47.5		-1.3							
	TON	E	12 15 06			2.17	247	3.0				
		ES•	29		1.6							
	H M S											64/ 019
JAN 15	14 47 24.4		40.42S	176.43E	12 KM	SE	2.0	AVG MAG				4.4
	+_ 0.7		0.03	0.04	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	TON	EP•	14 47 51.0		1.6	1.40	330	4.4				
		PG	53.4		0.6							
		S•	48 09.5		1.4							
	WEL	IP•	14 47 51		-0.6	1.53	235	4.8				
		S•	48 09.5		-2.5							
	TUA	P•	14 47 55		0.3	1.71	19		3.8	4.3		
		PG	48 01		2.0							
		ES•	16		-1.4							
		E	33									
	WNZ	E(PG)	14 48 02.5		1.5	1.81	352		4.7	4.9		
		(S)	35		17.9•							
	TNZ	P•	14 48 00		0.2	2.01	307		4.7	4.8		
		IPG	02		-3.0							
		SG	31.5		-0.6							
	GNZ	P•	14 48 00.3		-2.2	2.16	35		4.0	4.7		
		EPG	09		0.8							
		E	16									
		ESN	24		-1.5							
		E	48									
		E	53									
	KRP	EP•	14 48 12		2.2	2.59	344		3.4	3.4		
		EPG	15		-1.8							
		(SG)	50		-1.8							
	COB	EP•	14 48 18		3.1	2.89	256	4.6				
		S•	54		1.2							
	GPZ	E(P)	14 48 32		3.3	4.31	220	4.7				
		EP•	39		-0.3							
		SN	49 15		-2.7							
	KAI					4.32	239	4.8				
	H M S											64/ 020
JAN 15	22 07 24.2		44.61S	167.92E	33 KM	SE	1.9	AVG MAG				4.5
	+_ 1.6		0.07	0.08	R							

			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	MNW	IP•,	22 07 47.5		1.4	1.19	190		4.8			
		S•	08 00		-2.3							
	ROX	IP•	22 07 49.5	U	1.3	1.32	132		4.8	4.9		
		S•	08 07		1.0							
	KAI	ES•	22 09 05		0.3	3.28	52	3.9				
	GPZ	EP•	22 08 26		0.2	3.52	77	4.2				
		(S)	09 06		10.8•							
		IS•	10		-2.0							
	H M S											64/ 021
JAN 17	10 43 17.2		37.41S	176.27E	33 KM	SE	0.4	AVG MAG				3.8
	+_ 0.5		0.03	0.01	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	KRP	P•	10 43 32.5		0.2	0.78	228		3.4	4.0		
		S•	43		-0.2							
	TUA	EP•	10 43 45		-0.3	1.56	154		3.8			
	GNZ	EP•	10 43 50.5		0.2	1.86	132		4.4			
		I	53									
		E	44 05									
	TON	ES•	10 44 16		0.2	1.88	198	3.2				
	H M S											64/ 022
JAN 17	13 08 21.1		37.41S	176.30E	33 KM	SE	1.6	AVG MAG				4.0
	+_ 2.0		0.11	0.04	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	KRP	P•	13 08 37		0.5	0.80	229		4.1	4.0		
		S•	48		0.4							
	TUA	EP•	13 08 47		-2.0	1.55	155		3.9			
	GNZ	EP•	13 08 53		-0.9	1.84	133		4.6	3.9		
		E	57									
		ES•	09 20		1.7							
	TON	EP•	13 08 56		1.2	1.89	198	3.3				
		E	59									
		ES•	09 19		-0.9							
	H M S											64/ 023
JAN 17	14 03 05.7		37.01S	175.77E	33 KM	SE	0.9	AVG MAG				3.2
	+_ 2.0		0.11	0.12	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	KRP	EP	14 03 22		0.2	3.93	191		2.7	3.2		
		S	33		-0.7							
	TUA	E	14 03 34			2.10	149					
	TON	E	14 03 50.5			2.20	185	3.0				
		E	04 02									
		ES	05		0.6							
	GNZ	EP	14 03 42		-0.1	2.42	133		3.8			
	H M S											64/ 024
JAN 18	10 06 13.7		36.90S	177.51E	283 KM	SE	2.1	AVG MAG				4.5
	+_ 2.1		0.09	0.13	15							
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	GNZ	P	10 06 59.3		1.7	1.79	167		4.3	4.5		
		ES	07 31		-0.7							
	KRP	E(P)	10 06 57		-1.3	1.88	236					
	TUA	E(S)	10 07 31		-2.7	1.93	188			4.3		
	ONE	EP	10 07 05		-1.5	2.78	293					
	TON	EP	10 07 09		2.4	2.78	213	3.8				
		E	42									
		ES	51		3.3							
	TNZ	EP	10 07 14		1.4	3.37	226		4.0	3.7		
		ES	08 00		1.5							
	WEL	P	10 07 29.5		-0.1	4.88	205	5.0				
		S	08 28		-1.1							
	COB	S	10 08 42		-2.6	5.60	220	4.8				
	KAI	ES	10 09 22		-0.6	7.33	218	5.0				
	GPZ	S	10 09 32		0.2	7.74	207	5.4				

	H M S								64/ 025
JAN 18	12 18 48.6	39.31S	175.32E	152 KM	SE 1.5		AVG MAG		3.7
	+- 1.0	0.06	0.05	8					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TON EP		12 19 10		0.7	0.20	57	3.0		
S		24		-1.1					
TNZ P		12 19 13		1.3	0.74	280		3.6	3.3
ES		30		0.4					
E		38							
KRP EP		12 19 17		-0.5	1.40	7		2.9	
TUA E		12 19 41			1.51	71			
WEL P		12 19 26		1.7	2.02	192	4.2		
S		53		1.2					
GNZ P		12 19 28		1.4	2.21	73		4.0	3.8
ES		54		-1.9					
COB EP		12 19 33		0.6	2.66	227	4.2		
S		20 05		-1.0					
KAI ES		12 20 43		-2.4	4.37	221	4.1		
GPZ EP		12 20 00		-0.5	4.82	204	4.6		
S		51		-5.0*					

	H M S								64/ 026
JAN 19	23 17 11.0	41.33S	174.91E	33 KM	SE 3.1		AVG MAG		3.1
	+- 2.9	0.14	0.14	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL IP*		23 17 15.0	DNE	-1.7	0.11	291	3.0		
S*		18.7		-2.1					
COB ES*		23 18 05		2.1	1.66	278	3.1		
TON EP*?		23 17 53		3.4	2.18	13			
ES*?		18 19		0.6					
TNZ ES*		23 18 16		-2.4	2.18	349			3.3
E		19							

	H M S								64/ 027
JAN 20	19 23 37.2	44.90S	167.75E	33 KM	SE 1.2		AVG MAG		4.3
	+- 0.9	0.03	0.05	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW P*		19 23 53		-1.1	0.88	186		4.1	4.3
S*		24 07		0.7					
ROX IP*		19 23 59.5	D	-0.5	1.24	118		4.1	4.6
IS*		24 17		0.2					
KAI SN		19 25 10		0.9	3.56	49	4.1		
GPZ E(PN)		19 24 33		1.6	3.71	73	4.2		
SN		25 12		-0.9					
COB ESN		19 25 50		-0.8	5.28	45	4.6		

	H M S								64/ 028
JAN 22	20 43 11.6	37.70S	177.44E	33 KM	SE 2.8		AVG MAG		4.1
	+- 2.6	0.12	0.09	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ IP*		20 43 30.8		-0.3	1.05	154		4.2	4.5
S*		46		0.5					
TUA P*		20 43 32.5		0.0	1.13	191		3.8	4.1
I		34							
S*		50		2.1					
I		52.5							
KRP E(P*)		20 43 41		1.9	1.52	261		3.0	
CNZ P*		20 43 47		-2.1	2.11	224		3.9	3.9
E		55							
E		44 19							
TON EP*		20 43 48		-1.2	2.12	224	3.4		
S*		44 15		-2.3					
WEL P*		20 44 23		-0.7	4.14	209	4.5		
SN		58		0.4					
ES*		45 18		0.2					
COB ES		20 45 29		11.2*	4.98	226	4.6		

KAI ES	20 46 05	6.3	6.68	222	4.6			
GPZ ES	20 46 02	-4.7	7.01	210	4.8			

	H M S								64/ 029
JAN 23	01 28 28.2	38.54S	178.03E	112 KM	SE 2.1		AVG MAG		4.0
	+- 2.7	0.17	0.14	18					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ IP		01 28 43.3	D	-0.5	0.10	184			
E		56							
TUA EP		01 28 47.5		0.1	0.74	249		4.0	4.1
E		51							
S		29 02		-0.0					
CNZ EP		01 29 02		-0.4	2.05	251		3.3	
E		29							
TON EP		01 29 04		1.5	2.06	250	3.4		
ES		27		-1.2					
KRP E		01 28 52			2.06	287			
E		29 11							
WEL ES		01 30 11		2.9	3.72	221	4.3		
COB E		01 30 18			4.81	236			
E		35							
E		42							
GPZ S		01 31 15		-2.4	6.56	217	4.7		

	H M S								64/ 030
JAN 28	10 49 33.1	38.88S	176.04E	154 KM	SE 1.2		AVG MAG		3.9
	+- 1.1	0.06	0.05	10					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ P		10 49 56		1.0	0.50	230		3.8	
E		50 17							
TON EP		10 49 56		0.9	0.51	230	2.9		
E		50 14							
TUA P		10 49 58		0.7	0.87	86		4.2	4.1
E		50 10							
S		15		-0.9					
KRP EP		10 49 57		-1.6	1.03	337		3.3	
TNZ EP		10 50 02.5		1.0	1.33	256		3.7	
GNZ P		10 50 05		1.1	1.56	82		4.2	3.8
ES		27		-0.6					
WEL P		10 50 17.0		0.8	2.60	202	4.1		
S		49		-0.2					
COB S		10 51 06		-0.6	3.37	228	4.4		
GPZ EP		10 50 52		-1.4	5.45	207	4.6		
S		51 52		-3.6*					

	H M S								64/ 031
JAN 29	04 00 30.6	33.28S	179.84W	451 KM	SE 1.5		AVG MAG		5.4
	+- 1.7	0.19	0.28	13					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ S		04 03 15		0.7	5.63	197			4.8
TUA EP		04 02 05		-1.3	6.04	203			
ES		03 05		-16.7*					
CNZ P		04 02 15		-1.3	6.99	211			
ES		03 39		-0.9					
E		43							
TON ES		04 03 40		-0.1	7.00	211	5.2		
TNZ EP		04 02 24		1.9	7.52	217			
WEL EP		04 02 38.5		-0.7	9.08	207	5.6		
S		04 23		1.9					
COB ES		04 04 35		-0.4	9.79	215	5.6		
KAI ES		04 05 11		0.6	11.53	214	5.5		
GPZ EP		04 03 12		1.4	11.95	207	5.8		
S		05 17		-1.8					

	H M S								64/ 032
JAN 30	21 08 56.1	39.09S	176.01E	126 KM	SE 1.1		AVG MAG		4.4
	+- 0.8	0.06	0.04	7					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP	21	09	14.5	U	0.2	0.38	252			
		E			28							
	TON	P	21	09	14.8		0.4	0.38	252	3.5		
		S			27.5		-0.8					
	TUA	P	21	09	17.5		-0.8	0.93	73		4.3	
		E			34							
	TNZ	P	21	09	22.5		0.6	1.27	265		3.8	3.8
		S			41.5		0.1					
	GNZ	IP	21	09	26.8	D	0.9	1.63	75		5.1	4.7
		S			48		-0.6					
		I			50							
	WEL	P	21	09	37		1.6	2.40	203	4.3		
		S		10	06		0.8					
	COB	S	21	10	25		0.6	3.21	230	4.6		
	KAI	S	21	11	03		-1.9	4.90	224	4.7		
	GPZ	P	21	10	12.5		-1.1	5.25	208	4.9		
		S		11	10		-3.5•					

	H	M	S						64/ 033
JAN 31	15	00	54.1	39.78S	174.27E	193 KM	SE	1.6	AVG MAG 4.3
	+-		1.1	0.07	0.08	9			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	P	15	01	21.5		0.5	0.60	8		3.8	3.7
		S			42.5		0.7					
	TON	P	15	01	25		0.6	1.14	60	4.0		
		S			46		-1.9					
	CNZ	IP	15	01	24.8	D	0.4	1.15	60		4.3	4.1
		S			46		-2.0					
	WEL	P	15	01	30.5		2.6	1.55	166	4.3		
		S			55.7		1.6					
	COB	P	15	01	31		1.1	1.75	221	4.1		
		S			58		0.5					
	TUA	P	15	01	37.8		0.5	2.44	67		4.4	
		E		02	08							
	GNZ	P	15	01	45		-0.5	3.13	70		4.8	
		E		02	21							
	KAI	EP?	15	01	58		8.1•	3.49	217	4.3		
		S		02	31		-1.9					
	GPZ	P	15	01	57		-0.4	4.09	197	5.4		
		S		02	44.5		-1.9					

	H	M	S						64/ 034
FEB 01	20	56	03.0	39.34S	174.78E	227 KM	SE	1.2	AVG MAG 4.3
	+-		0.8	0.05	0.06	6			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	EP	20	56	34	U	1.0	0.35	297			
		E(S)			57		0.9					
		E		57	01							
	CNZ	IP	20	56	34.5	D	0.7	0.61	77		3.9	3.9
		E			54							
		E(S)			57		-0.7					
		E		57	02							
		E			09							
	KRP	EP	20	56	39		-0.7	1.54	23			3.8
		E			53							
	TUA	EP	20	56	43		-0.2	1.92	75		4.1	4.3
		E		57	09							
		E(S)			13		-1.2					
	WEL	IP	20	56	45	D	1.7	1.94	180	4.5		
		E			46							
		E		57	15							
		ES			16		1.5					
	COB	EP?	20	56	47		-0.3	2.34	221	4.3		
		E			48							
		ES		57	21		-0.6					
	GNZ	P	20	56	50	D	-0.3	2.62	76		4.3	4.5

		E		57	18							
		E			22							
		E			29							
	KAI	E	20	57	13				4.08	218	4.5	
		E			15							
		ES?			55		-2.2					
		E			57							
	GPZ	EP	20	57	15		0.9		4.63	200	5.3	
		ES		58	08		-1.4					
	ROX	E	20	57	46				7.34	212		
		E		59	10							
	MNW	E	20	59	29				8.32	217		
		E(S)			34		0.4					
	MNW	E	20	58	00				8.32	217		
		E			02							
		E			23							
		E(S)		59	34		0.4					

	H	M	S						64/ 035
FEB 03	18	48	02.0	38.95S	175.76E	12 KM	SE	1.5	AVG MAG 2.9
	+-		0.4	0.03	0.02	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	I(P•)	18	48	08.0	U	-0.2	0.30	214			
		E			10							
	TON	E(P•)	18	48	08		-0.3	0.30	215	2.5		
		E			10							
		E(S•)			13		0.2					
	KRP	EP	18	48	20		-2.3	1.04	350			
		E(PG)			23		-0.3					
		E(SG)			37		-0.4					
	TUA	E(P•)	18	48	23		1.2	1.09	83			
		E(S•)			39		2.5					
	TNZ	E(P•)	18	48	24		2.0	1.10	258			3.3
		E(PG)			25		0.6					
		E			30							
		E(SG)			40		0.6					
	GNZ	E(PG)	18	48	38		-0.3	1.79	81			
		E			43							
		E(SG)		49	01		-1.5					
		E			10							
	WEL	E(SG)	18	49	23		-1.7	2.45	198			

	H	M	S						64/ 036
FEB 04	02	18	18.6	40.42S	174.38E	12 KM	SE	1.7	AVG MAG 3.7
	+-		0.4	0.02	0.03	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP	02	18	35.0	U	-2.2	0.92	162	3.7	4.5	
		E(PG)			37		-0.3					
		ES			46		-4.9•					
		E(S•)			48		0.2					
		E(SG)			50		0.3					
	TNZ	EP?	02	18	40		-1.3	1.23	360			3.9
		S			56.7		-1.4					
		I		19	40.7							
	COB	EP	02	18	42.5		-1.3	1.42	241	3.8		
		E(PG)			47		-0.4					
		S		19	00.5		-2.0					
		E(S•)			03		0.1					
	TON	EP	02	18	44		-0.9	1.50	37	3.5		
		ES		19	03		-1.4					
		E			17							
	CNZ	P	02	18	44	D	-1.0	1.51	37		3.9	3.0
		E		19	06							
	KRP	EP	02	19	01		0.6	2.64	20			3.0
		EP•			06		1.1					
		E(S)			26		-5.8•					
		E(S•)			43		3.3					

	TUA	EP*	02 19 08		2.6	2.67	54				3.5
		E		10							
		EPG		12	-0.7						
		ES*		40	-0.6						
	KAI	ES	02 19 42		0.2	3.07	226	3.9			
		E(SG)		20 06	3.9						
	GNZ	E(S)	02 19 49.		1.1	3.33	59				3.6
	H M S										64/ 037
FEB 04	15 47 56.3		40.17S	175.13E	12 KM	SE	1.7	AVG MAG			3.7
	+- 0.5		0.03	0.04	R						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TON	EP	15 48 16		-0.2	1.01	18	3.5			
		E		21							
		E(SG)		30	-0.7						
		E(S)		31	0.2						
	CNZ	IP	15 48 15.8	D	-0.5	1.02	18				
		E		32							
	TNZ	EP	15 48 17.5		-0.4	1.14	329				4.1
		EP*		20	3.0						
		ES		33	-0.8						
		E		45							
	WEL	P	15 48 16.5		-1.5	1.15	194	3.8	4.3		
		ES		31	-3.0						
	COB	EP?	15 48 30		0.2	2.04	243	3.4			
		E		31							
		ES		53	-1.5						
		E		57							
	TUA	EP*	15 48 35		2.2	2.07	50		3.7		
	KRP	E(P*)	15 48 37		0.8	2.26	8				3.1
		E(S*)	49 05		-1.0						
		E(SG)		11	-1.7						
		E	48 39								
	GNZ	EP*	15 48 43		-0.8	2.71	57				3.5
		EPG		53	1.9						
		E(S*)	49 20		0.6						
	KAI	E	15 49 39			3.66	229	4.0			
		E(SG)		50 03	3.3						
	GPZ	ES	15 49 37		-4.6*	3.98	207				
		E		44							
	H M S										64/ 038
FEB 06	14 32 17.5		39.59S	175.79E	12 KM	SE	1.2	AVG MAG			4.2
	+- 0.5		0.04	0.04	R						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ	IP	14 32 30.8	D	0.3	0.43	334				
	TON	EP	14 32 31		0.5	0.43	333	4.0			
		E		34							
		S		38.5	-1.4						
	TNZ	IP	14 32 39.7	U	0.3	1.16	290				4.1
		E		45							
		E		53							
		ES		55	-0.5						
	TUA	E	14 32 43			1.31	54				
		E		45							
		E		56.5							
		E	33 05								
	KRP	E	14 32 45			1.67	353				3.8
		E		52							
		E	33 01								
		E		17							
		E		24							
		E		49							
	WEL	P	14 32 48	D	-0.6	1.87	204	4.1			
		E		52							
		E	33 05								
		ES		10	-1.5						

		E		17							
		E		31							
	GNZ	EP	14 32 51		0.9	1.98	62				4.3
		E	33 03								
		E		18							
		E		33							
	COB	EP	14 33 01		-0.1	2.77	236	4.4			
		E		03							
		E		24							
		ES		36	2.1						
		E		49							
		E		58							
	ONE	E	14 33 18			3.97	343				
		E		32							
		E		48							
		E	34 23								
	KAI	E	14 34 00			4.42	227	4.3			
		E		12							
		E		18							
	GPZ	E	14 33 38			4.73	209	4.6			
		E		43							
		E(S)	34 13		-7.8*						
		E		14							
		E		16							
		E		33							
	ROX	E	14 35 41			7.58	217				
	H M S										64/ 039
FEB 07	14 45 52.2		34.14S	177.31W	305 KM	SE	0.6	AVG MAG			5.3
	+- 1.0		0.07	0.10	16						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ	EP	14 47 21		0.4	5.87	219				
	TUA	EP	14 47 27		-0.7	6.45	222				
		ES	48 43		0.4						
	ONE	E(P)	14 47 35		0.3	7.03	254				
	CNZ	EP	14 47 42		-0.2	7.64	227				
		E	48 00								
		E	49 07								
	TON	E	14 47 55			7.65	227	4.9			
		ES	49 08		-0.8						
	TNZ	E	14 48 01			8.36	231				
		E		07							
	WEL	ES	14 49 50		0.4	9.50	219	5.3			
	COB	ES	14 50 12		0.1	10.51	226	5.9			
	KAI	E	14 50 59			12.18	223	5.0			
	H M S										64/ 040
FEB 08	21 18 56.3		32.48S	177.48W	144 KM	SE	3.3	AVG MAG			5.3
	+- 3.4		0.32	0.42	55						
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ	P	21 20 39		-0.5	7.16	210				
		E	21 00								
		E		58							
	ONE	EP	21 20 44		-0.3	7.52	242				
	TUA	EP	21 20 45		-1.5	7.68	213				
		E		56							
		E	21 58								
		E(S)	22 14		1.7						
	KRP	E(P)	21 20 48		-1.2	7.88	225				
		E	21 05								
		E(S)	22 20		2.8						
	CNZ	EP	21 21 00		-1.0	8.77	218				
		E		06							
		E		25							
		E(S)	22 39		0.5						
	TON	E	21 21 10			8.78	218	5.3			
		ES	22 40		1.4						

	TNZ	E(P)	21	21	08		-1.3	9.40	222				
		E			11								
		E			15								
	WEL	E	21	21	32			10.76	213				
		E			22	12							
		E(S)			59		-26.5*						
		E		23	02								
		E			49								
		EL		24	30								
	KAI	E(S)	21	24	20		-6.1	13.34	218	5.3			
	MNW	E(P)	21	22	59		5.5	17.57	217				

	H	M	S									64/ 041
FEB 09	08	33	58.4	40.48S		173.38E	191 KM	SE	1.5	AVG MAG		4.5
	+-		0.8	0.06		0.07	9					

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	WEL	IP	08	34	32.0	USE	2.1	1.32	128	5.2				
		E			50									
		E			52									
		S			54		-0.3							
	TNZ	IP	08	34	33	D	1.4	1.51	31				4.3	
		E			55									
		E(S)			57		-0.3							
		E			58									
		E		35	07									
	TON	EP	08	34	39		1.4	2.10	53	4.3				
		ES		35	08		0.1							
		E			12									
		E			46									
	KAI	P	08	34	44	SW	1.5	2.52	215	5.4				
		S		35	15		-1.4							
	KRP	E	08	35	02			3.06	34				2.8	
		ES			26		-1.7							
		E			38									
	TUA	E(P)	08	34	54		1.5	3.36	61				4.5	
		E		35	26									
		ES			34		-0.3							
	GNZ	EP	08	35	01		0.1	4.03	64		4.7		4.9	
		I			03									
		E			43									
		E(S)			47		-2.3							
		E			48									
	MNW	EP?	08	35	36.0	U	-0.3	6.76	217					
		I			36.4									
		E		36	48									
		ES			51		-1.5							

	H	M	S									64/ 042
FEB 09	15	42	43.6	40.16S		176.84E	12 KM	SE	2.2	AVG MAG		3.7
	+-		0.9	0.04		0.05	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	TUA	P	15	43	07.5		-0.7	1.37	10					
		ES			23		-3.3							
	CNZ	IP	15	43	07.8	U	-0.5	1.38	313					
		E			22									
	TON	EP	15	43	07.8		-0.5	1.38	313	3.5				
		E(PG)			15		3.4							
		E			17									
		E			21									
		ES			23		-3.7							
		E(SG)			34		3.7							
	GNZ	EP	15	43	13		-0.4	1.77	32				4.1	
		E			27									
		E			29									
		E			31									
		E(S)			37		1.6							
	GNZ	E	15	43	50			1.77	32					

	WEL	EP	15	43	16		0.4	1.94	234	3.4			
		E(PG)			25		2.2						
		E			29								
		ES			39		-0.2						
		E			58								
	TNZ	EP	15	43	18		-0.2	2.13	296		4.1		3.8
		EP*			23		1.9						
		EPG			26		-0.7						
		E			29								
		ES			43		-0.9						
		E(S*)			46		-3.3						
		E(SG)			50		-5.5*						
	KRP	EP	15	43	22		-0.6	2.45	335		2.8		
		EP*			30		3.4						
	KAI	ES	15	44	46		-0.7	4.72	238	4.1			
	MNW	ES	15	46	23		-0.7	8.79	227				

	H	M	S									64/ 043
FEB 10	10	56	03.7	39.32S		177.42E	12 KM	SE	2.0	AVG MAG		4.1
	+-		1.0	0.04		0.05	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	TUA	I(P*)	10	56	14.0	D	-0.2	0.55	338			4.6		4.7
		E(S*)			20		-1.9							
	GNZ	E(P*)	10	56	21		2.2	0.82	35			4.4		4.5
		E			22									
		E			24									
		E			27									
		E(SG)			39		7.3*							
	CNZ	IP	10	56	29	D	-0.4	1.46	274			4.2		
		E			43									
	TON	EP	10	56	29		-0.5	1.46	274					
		E			30									
		E(PG)			33		-0.3							
		E			43									
		E			48									
	KRP	E(P*)	10	56	39		-0.4	2.03	313			3.0		
		E			37									
		E			55									
	TNZ	EP	10	56	41.5		0.0	2.36	272			4.0		3.7
		EP*			47		1.8							
		E(PG)			50		-1.5							
		E(S*)		57	15		-1.3							
		E(SG)			24		0.7							
		E			32									
	WEL	P	10	56	47		-0.9	2.82	225	3.8				
		E		57	07									
		ES			20		-1.2							
		E(SG)			38		-0.9							
		E			48									
	COB	EP*	10	57	15.5		2.3	4.00	242	3.7				
		EPG			26		1.5							
		E			47									
		ES			51		1.7							
		ES*		58	10		4.5							
	KAI	ES	10	58	26		-1.0	5.56	233	4.0				
	GPZ	ES	10	58	25		-4.1	5.65	218	4.3				
		E			34									

	H	M	S									64/ 044
FEB 12	10	03	36.5	40.29S		173.45E	183 KM	SE	2.2	AVG MAG		3.6
	+-		2.5	0.13		0.13	22					

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	COB	EP	10	04	06		1.6	0.96	214	3.2				
		ES			27		1.0							
	TNZ	E	10	04	11			1.32	33					
		E			20									
		E			26									

		E			32								
		E			46								
	WEL	IP	10	04	09.6	U	1.5	1.41	135	4.0			
		E			13								
		E			26								
		E			29								
		S			32.5		-0.1						
	TON	EP	10	04	14		0.5	1.94	57	3.4			
		E			32								
		E			42.5								
	CNZ	P	10	04	14	U	0.4	1.95	57				3.6
		E			16								
		E			26								
		E			37								
		ES			40		-2.1						
		E			43								
	KAI	ES	10	04	55		-2.8	2.71	214	3.6			
	TUA	E	10	05	08			3.22	64				
	GNZ	E	10	04	35			3.90	67				3.7
		E		05	17								
		E			24								

	H	M	S									64/ 045
FEB 12	14	42	09.2	35.15S	179.28W	448 KM	SE	2.5		AVG MAG		4.7
	+-		3.2	0.55	0.55	29						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EP	14	43	23.5		-2.3	4.11	211		4.4	4.5
	E			26.5							
	I			27.5							
	E		44	19							
	E(S)			24		-2.2					
	E			28							
TUA	EP	14	43	34		3.3	4.64	217			4.3
	E		44	21							
	E			33							
	E(S)			37		1.9					
ONE	E	14	44	32			5.23	261			
CNZ	EP	14	43	41		-1.1	5.78	224			
	E			44							
	E		44	41							
	E		45	01							
	E			05							
TON	E(S)	14	44	56		0.6	5.79	224	4.4		
	E		45	00							
TNZ	E	14	43	49			6.47	230			
WEL	EP?	14	44	03		0.3	7.72	216	5.5		
	E			04							
	ES		45	34		1.5					
	E			36							
COB	E(S)	14	45	49		-2.0	8.65	224	4.9		
	E			53							

	H	M	S									64/ 046
FEB 12	18	41	56.3	40.89S	175.14E	12 KM	SE	1.9		AVG MAG		4.2
	+-		0.6	0.04	0.05	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP	18	42	10.0	DNW	0.2	0.49	215	4.3		
	S			18.3		-1.4					
TON	EP	18	42	25		-0.3	1.71	10	4.2		
	EPG			34		3.1					
	ES			45		-1.7					
	ES*			50		0.7					
CNZ	P	18	42	25	U	-0.4	1.71	11		4.2	
	EP*			29		2.3					
	EPG			34		3.0					
	E			44							
TNZ	EP	18	42	26.7		0.2	1.80	341		4.3	4.9

		E			27.2								
		EP*			31		2.9						
		E(S)			47		-1.7						
		E			50								
	COB	EP	18	42	26		-0.9	1.83	263	4.2			
		EP*			32		3.3						
		S			47.5		-2.0						
	TUA	E	18	42	45.5			2.59	37				4.0
		PG			49		0.3						
		E			54								
		ES		43	07		-1.2						
	KRP	E	18	42	47			2.97	6				2.8
		EPG			55		-1.4						
		E(S)		43	15		-2.5						
	GNZ	E	18	42	42			3.15	46				4.4
		EP*?			51		-0.3						
		E		43	14								
		E(SN)			20		-1.5						
	KAI	E(P*)	18	42	57		4.2*	3.24	238	4.2			
		E(S)		43	22		-1.6						
	ONE	E	18	43	32			5.14	353	4.2			
		ES		44	08		-1.4						
	ROX	E	18	45	33			6.26	221				
	MNW	ES	18	45	00		-2.1	7.35	226				
		E			05								

	H	M	S									64/ 047
FEB 12	20	39	04.8	41.53S	172.85E	114 KM	SE	1.7		AVG MAG		4.2
	+-		0.6	0.06	0.07	8						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	20	39	23.5		1.5	0.45	349	4.4		
	S			34		-1.3					
KAI	E	20	39	33			1.46	227	4.4		
	E			35							
	E			39							
	E			48							
	ES			53		0.5					
WEL	IP	20	39	33.2	D	1.2	1.46	81	4.7		
	E			36							
	E			44							
	S			52.5		0.0					
TNZ	P	20	39	48.5		1.7	2.62	27		4.2	4.4
	E			58							
	E		40	16							
	E(S)			19		0.5					
TON	E	20	39	55			3.10	42	4.3		
	E		40	05							
	E(S)			30		0.1					
	E			35							
CNZ	EP	20	39	54		0.7	3.11	42		4.6	
	E			57							
	E		40	04							
	E			10							
	E			32							
KRP	ES	20	40	53		-2.4	4.16	31			3.0
TUA	E	20	40	17			4.27	52			4.1
	ES			56		-2.2					
ROX	P?	20	40	14.5	U	-0.4	4.70	212			4.3
	ES		41	06		-2.7					
GNZ	E(P)	20	40	19		1.4	4.91	56			4.5
	E		41	04							
	E			07							
	E			11							
MNW	E(P)	20	40	30.5		2.3	5.69	220		4.2	4.0
	E		41	31							
	ES			32		-0.8					

		H	M	S										64/ 048
FEB 16		10	45	10.7	38.70S	176.07E	177 KM	SE	1.5	AVG MAG				3.8
		+-		2.5	0.12	0.13	19							
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ		P		10	45	35.5	D	-0.6	0.64	219		3.1	
	TUA		EP		10	45	38		0.8	0.85	97			3.8
			ES				57		-0.7					
	GNZ		E		10	45	44			1.53	88			3.8
			E			46	00							
			E				06							
	WEL		EP		10	45	58		0.9	2.77	201	4.3		
			ES			46	34		1.2					
	COB		ES		10	46	49		0.1	3.50	226	3.7		
	GPZ		E		10	47	35			5.62	206	4.1		
			ES				36		-1.7					

		H	M	S										64/ 049
FEB 18		15	51	13.2	38.61S	175.77E	173 KM	SE	1.1	AVG MAG				4.2
		+-		0.7	0.03	0.03	6							
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ		EP?		15	51	36		-0.5	0.26	94			
			E				37							
			E				39							
	CNZ		P		15	51	39	U	1.2	0.61	197			3.7
			E			52	07							
	TON		EP		15	51	39		1.2	0.62	197	3.2		
			E				43							
			E(S)				58		1.2					
			E			52	10							
	KRP		IP		15	51	38	U	-0.4	0.71	345		4.3	4.0
			E				43							
			E				53.5							
			E(S)				56		-1.8					
	TUA		P		15	51	41		-0.1	1.10	101		4.3	4.8
			E				50							
			E				55							
			E				57							
			S			52	02		-0.6					
	TNZ		P		15	51	44	U	1.8	1.23	242		4.0	3.5
			E				51							
			E(S)			52	09		4.3*					
	GNZ		P		15	51	47.5		0.0	1.76	92		4.4	4.7
			E				56							
			E			52	04							
			E				09							
			E				11							
			E(S)				14		0.0					
	WEL		P		15	52	00	D	0.6	2.78	196	4.7		
			E				13							
			E				27							
			S				34		-1.0					
			E				36							
	ONE		EP		15	52	03		0.3	3.05	338			
	COB		EP		15	52	06.5		-0.6	3.40	222	4.6		
			E				47							
			E(S)				49		0.3					
	KAI		ES		15	53	27		-1.5	5.13	219	4.6		
			E				34							

		H	M	S										64/ 050
FEB 20		00	54	28.4	40.36S	174.05E	110 KM	SE	1.4	AVG MAG				4.0
		+-		0.9	0.04	0.04	10							
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL		IP		00	54	52.0	U	1.3	1.07	150	3.9		
			S			55	07.2		-0.4					
	TNZ		P		00	54	53.5	D	1.2	1.20	12		3.7	4.1

		E			55	06								
		E(S)				09		-1.3						
		E				11								
		E				13								
		E				30								
	COB	P			00	54	54	W	1.3	1.24	234	5.3		
		E				55	05							
		S					12		1.0					
	TON	E			00	55	00			1.63	45			
		E					02							
		E					08							
		E(S)					19		0.0					
		E					21.5							
		E					43							
	CNZ	EP			00	54	59		1.6	1.64	45			3.8
		E				55	02							
		E					14							
		E					23							
	KRP	EP			00	55	11		-0.3	2.69	26		3.6	3.8
		E					35							
		ES					43		-0.7					
	TUA	E(S)			00	55	47		-0.5	2.85	58			3.6
	KAI	E			00	55	19			2.94	222	4.1		
		S					47		-2.5					
	GNZ	E(P)			00	55	23		0.6	3.52	62			4.1
		E					55							
		ES				56	02		-1.4					

		H	M	S										64/ 051
FEB 21		17	26	21.6	39.18S	177.23E	12 KM	SE	1.9	AVG MAG				4.2
		+-		0.8	0.03	0.06	R							
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TUA	I(P*)			17	26	29.5	D	0.4	0.38	350			
		E(S*)					35		0.5					
	GNZ	I(P*)			17	26	38	D	1.4	0.81	49		4.8	
		E					44.5							
		E					57							
	CNZ	IP			17	26	45.0	U	-0.4	1.31	269			
	TON	EP			17	26	45		-0.4	1.32	268	4.0		
		E(P*)					48		2.8					
		E					54							
		ES				27	03		-0.1					
	KRP	EP			17	26	51.5		-0.6	1.83	313		3.9	3.7
		EP*					54		0.1					
		E(PG)					56		-2.6					
		E(SG)				27	23		-0.2					
	TNZ	EP			17	26	58		0.6	2.22	269		4.1	3.9
		E(P*)				27	02		1.4					
		E					50							
	WEL	IP			17	27	03.0	D	-2.9	2.83	221	4.0	4.4	
		EP*					12		1.0					
		EPG					17		-1.8					
		ES					37		-2.2					
		E(SG)				28	01		4.1					
	COB	EP			17	27	19		-1.8	3.94	240	4.0		
		E					27							
		EP*					32		1.9					
		E(S*)				28	17		-4.6*					
	KAI	E(S)			17	28	45		0.7	5.54	231	4.3		
		E					53							
	GPZ	S			17	28	42.5		-5.1*	5.68	216	4.5		
	MNW	E(S)			17	30	21		-1.9	9.69	224			
		E					26							

		H	M	S										64/ 052
FEB 22		01	47	35.9	37.35S	176.47E	275 KM	SE	1.4	AVG MAG				5.9
		+-		0.9	0.04	0.07	7							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	01	48	14.0	U	0.6	0.94	232			
WNZ	P	01	48	16.0	U	0.2	1.32	193		5.9	5.4
	E			20							
	E			23							
	E			42							
TUA	IP	01	48	17.1	D	-0.3	1.56	160		5.9	6.0
	E			42.5							
	ES			48		-1.3					
GNZ	IP	01	48	18.0	U	-1.0	1.79	137		6.1	
	E			48							
TON	EP?	01	48	22		1.4	1.99	201	5.6		
	E			23							
	E			30							
	ES			57		1.6					
	E		49	10							
ONE	IP	01	48	22.8	E	-0.7	2.31	312	5.2		
	ES			59		-1.5					
	E		49	13							
TNZ	IP	01	48	28.0	U	3.1	2.47	221		5.9	5.5
	S		49	11.5		8.4*					
WEL	IP	01	48	43.0	US	-0.1	4.15	198	6.5		
	*SP		49	28.5							
	S			35.0		-0.4					
	E		50	00							
COB	EP	01	48	50.0		0.2	4.73	217	6.3		
	E			53							
	I		49	09							
	E			30							
	E(*SP)			42							
	ES			48		0.4					
KAI	EP	01	49	13		2.1	6.47	215	5.5		
	E(S)		50	24		-1.5					
GPZ	IP	01	49	17.0	S	-0.2	6.98	203	6.9		
	E			35							
	E		50	30							
	ES			35		-1.7					
ROX	EP	01	49	52.0		0.3	9.73	211			
	ES		51	37		-1.6					
MNW	EP?	01	50	03		-0.9	10.72	215			
	E			04.2							
	E			05.4							
	E		52	00							
	E(S)			02		1.3					

64/ 053

	H	M	S				AVG MAG	
FEB 22	14	14	43.0	36.51S	177.82E	275 KM	SE 1.6	4.1
	+_		1.2	0.06	0.08	8		

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EP?	14	15	29		-0.1	2.14	176		4.0	3.8
	E			30.5							
	ES		16	04		-0.9					
KRP	IP	14	15	31.4	D	0.8	2.31	232		4.4	3.6
	E			38							
	ES		16	06		-1.7					
TUA	EP	14	15	31		-0.1	2.36	193		3.7	4.1
	E		16	03							
	ES			08		-0.5					
ONE	P	14	15	35.0	E	-1.4	2.90	284	3.5		
	E			52							
	E		16	33							
CNZ	P	14	15	40.7		0.7	3.24	213		3.6	3.7
	ES		16	27		2.6					
	E			31.5							
TON	EP	14	15	41		0.9	3.24	213			
	E			48							
	E		16	24							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ES			26		1.5					
	E			32							
TNZ	EP	14	15	48		1.6	3.82	225		3.7	3.4
	E(S)		16	41		5.2*					
	E			17 06							
WEL	EP	14	16	03		-1.2	5.34	206	5.2		
	ES			17 07		-0.7					
COB	E	14	16	19			6.06	219	4.7		
	E			17 02							
	S			21.5		-2.0					
	E			28							
KAI	E(S)	14	18	05		3.0	7.79	218	5.0		
GPZ	EP?	14	16	40		0.3	8.20	207	5.3		
	E			41							
	ES		18	09		-2.2					
ROX	EP	14	17	15		0.2	11.02	213			
	E(S)		19	14		-0.7					

64/ 054

	H	M	S				AVG MAG	
FEB 25	10	53	30.5	38.56S	175.82E	200 KM	SE 2.2	3.7
	+_		1.7	0.08	0.08	11		

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	10	53	58.6	D	0.2	0.67	340		3.8	3.0
	E		54	12							
	ES			17		-3.0					
CNZ	P	10	54	00	U	1.6	0.67	198		3.6	3.0
	E			03							
	E			15							
	E(S)			21		1.0					
TON	E	10	54	00			0.68	199	2.6		
	E(S)			24		3.9					
TUA	E	10	54	08			1.07	104			3.7
	E			11							
	E			15							
	ES			23		-1.4					
TNZ	EP	10	54	04		1.5	1.29	241			
	E(S)			26		-1.4					
	E			33							
GNZ	P	10	54	07.5		1.0	1.73	93			3.9
	E			30							
	E(S)			33		-1.3					
WEL	P	10	54	21		2.2	2.84	196	4.1	4.7	
	ES			55		-1.2					
COB	ES	10	55	09		-0.4	3.47	222	4.0		
GPZ	EP	10	54	54.5		0.4	5.66	204	4.1		
	ES		55	56		-3.1					

64/ 055

	H	M	S				AVG MAG	
FEB 27	06	38	55.5	36.99S	178.66E	12 KM	SE 2.3	4.0
	+_		2.1	0.09	0.12	R		

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EP	06	39	24		-0.7	1.73	197			4.2
	E(PG)			34		3.6					
	E			36							
	E(S)			43		-3.3					
	ESG			56		2.3					
TUA	E(P)	06	39	30		-0.7	2.17	213			
	E(S)			57		0.2					
KRP	P	06	39	38		0.6	2.65	249		3.8	3.5
	ES			40 08		-1.0					
CNZ	EP	06	39	46		-0.1	3.30	227			
	E			52							
	E			40 32							
TON	E	06	40	09			3.31	227	3.4		
	E			28							
TNZ	E(P)	06	39	59		3.1	4.02	236			
	ES*			41 00		1.9					

	WEL	EPG	06 40 41		-0.6	5.25	214	4.2			
		ES	41 08		-3.3						
	COB	ES	06 41 31		-2.2	6.16	227	4.3			
	GPZ	E	06 42 11			8.12	213	4.5			
		E(S)	13		-6.6*						
											64/ 056
	H	M S									
FEB 27	14	02 10.1	39.03S	175.71E	12 KM	SE 1.7		AVG MAG			3.2
		+_ 0.5	0.04	0.04	R						
			H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	I(P*)	14	02 13.8		-1.0	0.21	216			
	TON	E(P*)	14	02 13.8		-1.1	0.22	217	2.3		
		S*		16.5		-1.8					
	TNZ	E(P*)	14	02 30		0.9	1.05	261			
		E(S*)		46		2.8					
		E		48							
	KRP	P	14	02 31	U	-0.2	1.11	353		3.7	3.2
		E(S)		45		-1.8					
	TUA	E(P*)	14	02 31		0.2	1.15	79			
		E(S*)		48		1.8					
	GNZ	E	14	02 54			1.85	79			
	WEL	E(P*)	14	02 50		-1.7	2.37	197	3.7		
		E		53							
		E		56							
		E		03 08							
		E(S*)		24		1.1					
	COB	E	14	02 35			3.07	227			
		E		45							
		E(S*)		03 45		0.9					
		E		52							
											64/ 057
	H	M S									
FEB 28	02	14 26.7	35.93S	179.50E	200 KM	SE 1.7		AVG MAG			4.6
		+_ 2.1	0.08	0.12	22						
			H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	EP	02	15 15		-1.4	2.96	203		4.7	
		E		27							
		E		48							
	TUA	P	02	15 22.0		-0.1	3.43	212		4.4	4.4
		E		35							
		ES		16 05		0.1					
	KRP	IP	02	15 25.5	D	-0.5	3.75	237		4.5	4.1
		E		43							
		ES		16 13		1.2					
	ONE	EP	02	15 29.5		-1.8	4.18	271	4.2		
		E		36							
		ES		16 21		-0.3					
	CNZ	EP	02	15 36.5		0.7	4.53	223			
		E		39							
		E		49							
		E		16 03							
		E		45							
	TNZ	E(P)	02	15 48		3.5	5.21	230			
		E		51							
		E		16 14							
		E		17 06							
		E		19							
	WEL	E	02	16 16			6.51	213	5.1		
		E		23							
		E		17 12							
		ES		14		-1.0					
		E		46							
		E		49							
	KAI	E(S)	02	18 15		-0.4	9.10	221	5.0		
		E		31							
	GPZ	E(P)	02	16 53		14.4*	9.38	212			
		E		18 16							

		E		35							
											64/ 058
	H	M S									
FEB 28	10	33 10.7	40.78S	174.36E	12 KM	SE 2.2		AVG MAG			3.5
		+_ 0.6	0.04	0.07	R						
			H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP	10	33 24.3	US	-1.1	0.60	149	3.7		
		S		33.8		-2.4					
	TON	E	10	33 42			1.81	30	3.1		
		E		47							
		E		56							
		E(S)		34 04		0.5					
		E		18							
	CNZ	P	10	33 41		-0.2	1.82	30		3.6	3.7
		E		43							
		E		55							
		E(S)		34 06		2.4					
		E		20							
	KAI	E(P*)	10	34 01		1.0	2.82	231	3.6		
		E(S)		27		-1.2					
		ES*		35		-2.1					
	KRP	EP?	10	33 57		-0.2	2.99	18		3.6	3.5
		I		58.7							
		E(PG)		34 17		5.8*					
		E(S)		34		1.7					
		E(SG)		48		-3.5					
	GPZ	EP*	10	34 09		2.8	3.18	203	3.6		
		E		31							
		E(S)		39		2.4					
	GNZ	E	10	34 42			3.54	54			
											64/ 059
	H	M S									
FEB 28	15	54 07.1	42.35S	174.10E	12 KM	SE 2.9		AVG MAG			3.9
		+_ 0.9	0.07	0.08	R						
			H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP	15	54 27.4	D	-1.7	1.17	25	4.0		
		E		33							
		E		37							
		S		41.5		-3.8					
	GPZ	EP	15	54 36		-0.3	1.72	218	3.5		
		E(PG)		43		1.1					
		ES		56		-1.8					
	KAI	EP	15	54 40		-0.0	2.00	264			
		EP*		45		2.6					
		E(S)		55 01		-3.3					
		ES*		13		4.1					
	TON	EP	15	54 57		-1.1	3.32	20			
		E(P*)		55 06		0.9					
		E(PG)		18		3.6					
		ES		33		-3.5					
		ES*		47		-1.7					
		ESG		54		-5.2					
	CNZ	P	15	54 57		-1.1	3.33	20		4.3	4.4
		E		55 00							
		EP*		06		0.8					
		ES*		49		0.1					
		ESG		57		-2.4					
	TUA	E(PG)	15	55 38		5.3	4.23	34		4.1	3.8
		E(S)		56 01		2.6					
	KRP	EP	15	55 13		-1.6	4.55	14		4.3	4.2
		E		21							
		E(P*)		28		1.9					
		E		56 23							
		E(S*)		30		4.4					
		E		38							
	ROX	E(PG)	15	55 35		-6.4*	4.66	226			3.4
		E		49							

		ES		56 05		-3.8						
	GNZ	E(PG)	15	55 46		2.7	4.76	40				
		E		38								
		E		56 04								
	MNW	S	15	56 36.5		0.5	5.80	231				3.4
		E		47								
	ONE	E(P*)	15	56 01		0.4	6.56	2				
		E		55 50								
		E		57 04								
												64/ 061
	H M S											
FEB 28	16 49 06.6		35.87S	179.45E	204 KM	SE 0.9			AVG MAG			4.3
	+- 1.0		0.05	0.07	16							
			H	M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ	EP		16 49 56		-1.0	3.00	202				
		E		57								
		E		59								
		E		50 07								
		E		11								
		E		25								
		E		28								
	TUA	EP		16 50 03		0.5	3.46	211			4.1	4.4
		E		16								
		E(S)		45		-0.7						
	KRP	IP		16 50 06.3	D	0.3	3.75	236			4.5	4.0
		E		24								
		ES		53		1.1						
	ONE	EP		16 50 10		-0.8	4.13	270	4.0			
		E		17								
		ES		51 00		-0.5						
	CNZ	EP		16 50 17		1.0	4.55	222			4.2	
		E		22								
		E		44								
		E		51 26								
		E		38								
	TON	EP?		16 50 17		0.9	4.55	222	4.6			
		E		26								
		E		51 25								
		E		33								
	WEL	EP		16 50 41		-0.6	6.54	213				
		E		49								
		E		57.5								
		E		51 04								
		E		53								
		E(S)		55		-0.6						
		E		52 27								
	KAI	E		16 53 06			9.12	221				
		E		12								
	GPZ	E		16 53 03			9.41	212				
												64/ 061
	H M S											
FEB 28	16 51 27.5		42.22S	173.87E	12 KM	SE 1.7			AVG MAG			3.4
	+- 0.6		0.05	0.07	R							
			H	M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL	P		16 51 49		-0.1	1.14	36	3.1			
		S		52 03.5		-1.5						
	GPZ	EP?		16 51 55		-1.8	1.73	211				
		E		57								
		E(PG)		52 07		4.4						
		ES		17		-1.4						
	KAI	EP?		16 51 58		-0.4	1.85	260				
		E(PG)		52 06		1.0						
		E(S)		20		-1.2						
		E		23								
		E		35								
	TON	E(PG)		16 52 33		-0.5	3.26	23	3.6			
		ESN		55		-0.4						

		ESG		53 18		0.4						
	CNZ	E(PG)	16	52 33		-0.7	3.27	23				3.4
		ES*		53 09		1.6						
		ESG		19		1.3						
	KRP	E(P*)	16	52 44.5		-0.6	4.47	17				
		E(PG)		52		-5.9*						
												64/ 062
	H M S											
FEB 29	08 52 49.9		39.77S	175.40E	12 KM	SE 2.0			AVG MAG			3.6
	+- 0.4		0.03	0.04	R							
			H	M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TON	E		08 53 04			0.58	10	3.3			
		E		06								
		ES		13		-2.1						
		E		15.5								
	CNZ	IP		08 53 03.0	D	-1.5	0.58	11			3.6	
		E(S)		12		-3.2						
		E		15								
	TNZ	IP		08 53 09.5	U	0.1	0.99	306			3.6	3.5
		E(S)		23		-0.7						
		E		24								
	WEL	EP		08 53 17		-0.3	1.59	198			3.8	
		EP*		19		0.8						
		E		34								
		E(S)		36		-1.6						
		ES*		40		0.7						
		ESG		43		-0.5						
	TUA	E(P*)		08 53 19		-0.5	1.66	55				3.5
		E(SG)		44		-2.1						
	KRP	EP		08 53 20		-0.8	1.85	3			3.6	3.4
		E(PG)		30		2.6						
		E(S*)		47		-0.1						
		ESG		55		2.7						
	GNZ	EP?		08 53 26		-1.2	2.33	62			3.6	3.6
		E(PG)		37		-0.0						
		E		56								
		E(SG)		54 13		4.6						
	COB	EP		08 53 29		0.4	2.42	236	3.6			
		ES		54 00		2.6						
	KAI	E		08 53 59			4.08	226				
		E		54 40								
	GPZ	ES		08 54 38		-7.9*	4.43	207	4.0			
												64/ 063
	H M S											
FEB 29	10 23 02.8		37.61S	179.67E	12 KM	SE 1.4			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	E(P*)		10 23 33		0.8	1.66	231			4.1	4.2
		E		39								
		E		43								
		E(S)		48		-4.0*						
		E(SG)		58		-0.7						
	TUA	E(P)		10 23 42		2.1	2.32	238			3.8	3.9
		E		24 00								
		E(S*)		13		-1.0						
	KRP	EP		10 23 52		-1.2	3.29	263			3.7	
		EP*		24 00		-0.1						
	CNZ	EP		10 23 58		0.5	3.61	243			3.4	3.4
		E(P*)		24 05		-0.5						
		E		09.5								
		E		31								
		E(S)		40		1.1						
	TON	E		10 23 59			3.61	243	3.8			
		E(S)		24 42		2.9						
	TNZ	E		10 24 13			4.44	248				
		E		17								
		E		25 08								

	GNZ	P	18 43 11.6		0.7	1.37	120		4.3	4.2
		S	34		-1.3					
	CNZ	EP	18 43 13		1.4	1.45	211		2.9	2.9
		ES	38		1.4					
	TON	ES	18 43 38		1.3	1.45	211	3.0		
	WEL	P	18 43 36		-0.0	3.58	202	4.3		
		S	44 19		-0.8					
	COB	ES	18 44 34		-1.4	4.27	222			
	GPZ	ES	18 45 21		-4.5*	6.43	206	4.6		

64/ 07

	H	M	S									
MAR 08	01	35	47.8	44.32S	167.76E	12 KM	SE	2.7	AVG MAG		6.4	
	+-		1.4	0.06	0.10	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	MNW	P*	01	36	14.7		0.8	1.47	184					
		I			15.8									
	ROX	IP*	01	36	16	USE	-0.2	1.60	137					
		S*			36		-1.5							
	KAI	PN	01	36	36.7		-0.4	3.20	57					
		I(PG)			50		-2.6							
	GPZ	EPN	01	36	40		-2.1	3.58	82	6.2				
		IP*			54		3.9							
		S*		37	41		4.0							
	COB	PN	01	36	58.0		-1.7	4.88	50	6.4				
		SN		37	53		-1.8							
	WEL	IPN	01	37	12	U	-2.3	5.98	62	6.3				
		I			18									
		ESN		38	17		-4.0							
		E			33									
		E			36									
		E			53									
	TNZ	EPN	01	37	30		0.2	7.13	46					
		E			37									
		EP*			56		5.2							
	CNZ	EPN	01	37	37		-1.0	7.75	51					
		I			40									
		E		38	54									
	WNZ	E(P)	01	37	53		5.7	8.45	51					
		E(P*)		38	12		-1.5							
		E		39	07									
		E			25									
	KRP	PN	01	37	50		-0.2	8.67	45					
		I		38	09									
		E		39	37									
	TUA	EPN	01	37	54.5		0.8	8.93	55					
		E		38	00.5									
		E			14									
		E		39	42									
	GNZ	EPN	01	37	59		-2.9	9.56	57					
		E		38	05									
		E			15									
		ESN		39	47		0.9							
	ONE	EPN	01	38	08		1.4	9.92	33	6.5				
		E			14									
		SN		39	54		-0.4							
	MCQ	EP*	01	38	56		-12.8*	11.68	206					

64/ 07

	H	M	S									
MAR 09	00	35	26.1	45.33S	167.53E	33 KM	SE	0.9	AVG MAG		4.4	
	+-		0.8	0.03	0.05	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	MNW	IP*	00	35	36		0.0	0.46	173					
		ES*			43		-0.1							
	ROX	P*	00	35	48		-1.2	1.26	97			4.1	4.3	
		S*			36 07		0.7							
	KAI	EPN	00	36	25		1.4	3.96	46	4.4				
		E			28									

		SN	37 15		7.3*					
	GPZ	E	00 36 22			4.00	68	4.2		
		E	39							
		ESN	37 09		0.2					
	COB	E	00 36 48			5.69	44	4.8		
		E(SN)	37 49		-0.6					
		E	54							
	WEL	ESN	00 38 12		-0.4	6.64	55	4.6		

64/ 074

	H	M	S									
MAR 09	11	52	14.5	45.08S	167.74E	33 KM	SE	0.5	AVG MAG		4.0	
	+-		0.6	0.02	0.02	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	MNW	IP*	11	52	28		-0.5	0.71	187			4.2		
		S*			39		0.5							
	ROX	P*	11	52	36		-0.2	1.18	110			3.7	4.2	
		S*			52		-0.2							
	KAI	E	11	53	30			3.68	47					
	GPZ	E(SN)	11	53	52		0.3	3.78	70					
		E(S*)		54	10		0.1							

64/ 075

	H	M	S									
MAR 10	06	09	28.3	40.07S	174.27E	94 KM	SE	1.4	AVG MAG		3.4	
	+-		1.0	0.04	0.06	14						

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	TNZ	E	06	09	54			0.88	6					3.2
		ES		10	02		0.4							
	WEL	EP?	06	09	33		-19.1*	1.28	163	3.4				
		S		10	10		0.1							
	TON	EP	06	09	52		-0.4	1.31	49	3.2				
		S		10	10		-0.5							
	CNZ	P	06	09	53		0.5	1.31	49			3.6	3.7	
		S		10	11		0.4							
	COB	E(P)	06	09	58		2.5	1.55	228	3.4				
		S		10	14		-1.7							
	KRP	EP	06	10	05		-1.0	2.36	25			3.6	3.4	
		E			34									
	GPZ	ES	06	11	10		-0.3	3.82	198	3.6				

64/ 076

	H	M	S									
MAR 11	08	23	15.3	38.28S	176.32E	179 KM	SE	1.2	AVG MAG		3.9	
	+-		1.7	0.07	0.08	14						

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	KRP	P	08	23	41		-0.1	0.71	299			3.4	3.2	
		E		24	00									
	TUA	P	08	23	42		0.1	0.84	130			4.2	4.1	
		ES		24	02		-0.5							
	GNZ	P	08	23	47		0.7	1.38	106			4.1	4.2	
		ES		24	10		-0.3							
	TNZ	E	08	24	48			1.77	239					3.1
	WEL	ES	08	24	49		1.4	3.24	201	4.3				
	GPZ	ES	08	25	52		-1.3	6.09	206	4.5				

64/ 077

	H	M	S									
MAR 13	17	10	29.8	39.69S	175.61E	33 KM	SE	2.0	AVG MAG		4.0	
	+-		0.6	0.03	0.04	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	TON	P*	17	10	40.0		-0.2	0.49	353	3.9				
		S*			47.0		-0.6							
	TNZ	P*	17	10	49.0		-0.8	1.08	297			3.9	3.8	
		I			49.9									
		ES*		11	05		0.4							
		E			09									
	WEL	PN	17	10	58		1.3	1.72	202	4.0				
		EP*		11	00		-0.7							
		ESN			20		3.1							
		E			26									

KRP	E(P)	17 10 59.0	1.7	1.76	358			4.1	4.1
	P*	11 00.6	-0.8						
	S*	23	-1.9						
GNZ	EP*	17 11 08	0.1	2.14	62			4.2	3.8
	E	11							
	I	16							
	ES*	34	-2.3						
	I	47							
COB	EP*	17 11 15	-0.7	2.60	237	3.7			
	ES*	46	-4.0						
ONE	E(P*)	17 11 44	3.9	4.03	345	3.9			
	ES*	12 34	1.2						
KAI	EP*	17 11 44	0.1	4.26	227	4.0			
	ES*	12 34	-5.6*						
GPZ	E	17 11 57		4.58	208	4.1			
	E	12 10							

64/ 071

H M S								
MAR 16	09 37 28.3	48.09S	166.75E	33 KM	SE	2.7	AVG MAG	4.2
	+- 6.3	0.50	0.48	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P*	09 38 10		-0.4	2.38	15		4.2	
ROX	EP*	09 38 24		0.5	3.15	35		3.9	4.1
	S*	39 03		-1.9					
GPZ	E	09 40 52			6.02	45			
KAI	ES*	09 40 46		1.9	6.46	32	4.5		

64/ 071

H M S								
MAR 18	04 18 52.9	41.79S	174.44E	12 KM	SE	2.4	AVG MAG	4.1
	+- 0.8	0.05	0.06	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P*	04 19 01.9		-1.7	0.57	26	4.6		
	S*	10.2		-1.3					
COB	EP*	04 19 17		-2.0	1.46	298	3.7		
	I	19							
	S*	37		-1.5					
	E	42							
GPZ	EPN	04 19 30		-0.0	2.31	214	3.6		
	E	38							
	ESN	54		-3.6					
	E(S*)	20 07		3.0					
KAI	E	04 19 41			2.37	251	3.8		
	E	45							
	ES*	20 08		2.3					
	E	15							
TNZ	EP*	04 19 36		-2.6	2.61	359		4.1	4.2
	I	41							
	I	45							
	S*	20 14		1.1					
	E	20							
TON	EP	04 19 38		2.2	2.72	18	4.4		
	E	43							
	S*	20 20		3.7					
CNZ	EP	04 19 38.5		2.6	2.73	18			
	P*	41.5		0.9					
KRP	EPN	04 19 50		-2.4	3.96	13		4.4	4.2
	E	57							
	EP*	20 03		1.3					
	S*	47		-6.5*					
GNZ	E	04 20 18			4.18	42			4.2
	ESN	41		-1.8					

64/ 0

H M S								
MAR 19	13 46 01.5	38.33S	176.44E	231 KM	SE	0.9	AVG MAG	4.8
	+- 0.9	0.06	0.04	5				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	13 46 35.3	U	-0.1	1.12	219		3.8	3.2
	ES	47 02		0.3					
TON	EP	13 46 35		-0.4	1.12	219	3.3		
	S	47 01		-0.8					
GNZ	P	13 46 37.6		1.0	1.28	105		4.2	4.6
	ES	47 03		-0.7					
TNZ	EP	13 46 41		-0.1	1.83	241		3.7	3.6
	ES	47 12		0.4					
WEL	P	13 46 56.9		1.1	3.22	203			
	S	47 39		1.0					
KAI	ES	13 48 28		-3.7*	5.69	221	4.6		
GPZ	EP	13 47 30		-0.9	6.08	207	5.0		
	S	48 40		-0.7					

64/ 081

H M S								
MAR 19	14 01 20.5	32.65S	177.80W	505 KM	SE	1.3	AVG MAG	5.5
	+- 2.0	0.24	0.42	17				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EP	14 03 07		0.4	6.88	208			
	I	10							
	ES	04 31		0.2					
CNZ	EP	14 03 22		-1.0	8.47	218			
	S	05 01		0.6					
TNZ	EP	14 03 30		0.5	9.09	222			
WEL	ES	14 05 37		-1.5	10.47	212			
GPZ	ES	14 06 34		0.9	13.33	211	5.5		

64/ 082

H M S								
MAR 19	18 23 40.6	39.08S	175.98E	189 KM	SE	1.7	AVG MAG	4.0
	+- 1.8	0.12	0.08	12				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	18 24 06.5		0.4	0.36	250			
	ES	27		1.3					
TON	EP	18 24 06		-0.1	0.37	250	3.2		
	S	25		-0.7					
TNZ	EP	18 24 11		-0.4	1.25	265		3.6	3.6
	S	35		-0.2					
GNZ	EP	18 24 15.3		0.3	1.65	75		4.3	4.0
	S	40		-1.6					
WEL	P	18 24 26.3		3.2	2.40	203			
	S	25 01		5.2*					
KAI	ES	18 25 49		-2.0	4.89	224	4.4		
GPZ	ES	18 25 59		-0.4	5.25	207	4.7		

64/ 083

H M S								
MAR 20	01 25 43.3	38.56S	178.17E	33 KM	SE	0.1	AVG MAG	3.7
	+- 0.3	0.03	0.01	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	01 25 49.8	U	0.1	0.15	235			
	S	54.2		-0.1					
TUA	P	01 25 58		-0.1	0.84	253		3.7	3.7
	S	26 09		0.0					

64/ 084

H M S								
MAR 20	04 04 32.8	38.59S	178.11E	33 KM	SE	0.3	AVG MAG	3.5
	+- 0.6	0.07	0.03	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	04 04 38.5	U	-0.2	0.09	232			
	S	43.0		0.1					
TUA	EP	04 04 47		0.2	0.79	253		3.4	3.6
	S	57		-0.1					

64/ 085

H M S								
MAR 23	22 02 51.0	40.05S	175.54E	33 KM	SE	0.7	AVG MAG	3.3
	+- 0.9	0.03	0.04	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TON EP*	22 03 08		0.7	0.85	360	3.0		
	S*	19		-0.1					
	TNZ EP*	22 03 14		0.2	1.25	314			3.2
	S*	31		0.3					
	KRP ES*	22 03 56		-0.8	2.12	360			3.6
	E	04 03							
	COB ES*	22 04 04		-0.4	2.38	243	3.3		

64/ 08

	H M S							
MAR 24	07 01 57.1	38.30S	176.27E	182 KM	SE 1.2		AVG MAG	4.0
	+- 1.4	0.06	0.06	12				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP IP	07 02 22.6	U	-0.6	0.69	303		4.1	
	TUA P	07 02 25		0.9	0.85	127		4.1	4.0
	S	44.7		-0.3					
	TON E(P)	07 02 27		1.3	1.07	212	2.9		
	E(S)	55		7.2*					
	GNZ EP	07 02 29		0.3	1.41	105		3.7	4.3
	S	52		-1.1					
	TNZ EP?	07 02 31		-0.7	1.72	239			3.3
	E	03 12							
	WEL P?	07 02 50		1.1	3.20	201	4.6		
	S	03 30		1.2					
	COB S	07 03 45		0.6	3.90	223	4.4		
	KAI ES	07 04 23		-1.3	5.62	220	4.4		
	GPZ S	07 04 33		-1.3	6.05	206	4.7		

64/ 08

	H M S							
MAR 26	08 10 19.6	47.54S	165.81E	33 KM	SE 5.1		AVG MAG	4.1
	+- 9.4	0.59	0.49	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW (P*)	08 10 58.8		0.9	2.16	36		4.1	4.1
	E(S*)	11 27		0.5					
	ROX P*	08 11 14.5		-0.9	3.18	51		4.1	4.0
	E(S*)	52		-5.2					
	GPZ E(S*)	08 13 31		4.8	6.15	54	4.2		

64/ 08

	H M S							
MAR 26	15 51 07.7	40.15S	174.93E	33 KM	SE 2.1		AVG MAG	4.3
	+- 0.5	0.04	0.05	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ IP	15 51 26.7	U	1.4	1.05	336		4.6	
	S	42		3.5					
	WEL P*	15 51 28.0		-0.8	1.14	186	4.4		
	S*	43		-1.3					
	COB P*	15 51 41		-0.8	1.92	240	4.0		
	S*	52 06		-1.3					
	TUA EPN	15 51 42		1.2	2.18	53		4.5	4.3
	IP*	45		-1.3					
	(S*)	52 18		2.9					
	KRP EPN	15 51 42		-0.0	2.27	12		4.2	4.7
	IP*	45		-2.9					
	S*	52 14		-3.8					
	GNZ EPN	15 51 50		0.3	2.83	59		4.0	4.3
	E	52 03							
	KAI EP*	15 52 09		-0.9	3.56	227	4.2		
	E	15							
	ES*	58		1.5					
	GPZ EPN	15 52 06		1.2	3.93	205	4.3		
	SN	50		1.3					
	ONE E	15 52 18			4.39	354	4.0		
	E	38							
	ESN	53 05		5.3*					

64/ 089

	H M S							
MAR 28	02 28 42.0	38.22S	176.19E	210 KM	SE 1.2		AVG MAG	4.6
	+- 1.4	0.06	0.05	10				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP IP	02 29 09.9	U	-0.9	0.59	300		4.1	4.2
	S	33		-0.0					
	TUA P	02 29 12.3	D	-0.4	0.95	128		4.9	4.7
	S	35.5		-0.9					
	I	39.5							
	CNZ P	02 29 14.8	D	1.2	1.10	207		3.9	
	GNZ IP	02 29 16.9	U	0.1	1.50	107		5.2	5.3
	S	44		0.2					
	TNZ EP	02 29 20		1.2	1.71	235		4.0	
	WEL P	02 29 35.9		0.3	3.25	199	5.1		
	S	30 18		0.9					
	COB E	02 29 57			3.91	222	4.7		
	S	30 32		0.7					
	KAI ES	02 31 08		-2.4	5.64	219	4.6		
	GPZ E	02 31 00			6.09	205	4.7		
	MNW S	02 33 11		22.4*	9.88	217			

64/ 090

	H M S							
MAR 28	03 38 52.4	46.43S	166.54E	33 KM	SE 2.7		AVG MAG	4.4
	+- 5.0	0.37	0.27	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW IP*	03 39 11	U	-0.2	0.99	50		4.5	4.5
	S*	24		-0.8					
	ROX EP*	03 39 31		0.3	2.16	65		3.9	4.6
	I	34							
	S*	57		-2.3					
	GPZ E	03 39 49			5.12	60	4.4		
	ES*	41 31		3.0					

64/ 091

	H M S							
MAR 28	10 06 52.7	44.51S	166.22E	33 KM	SE 17.0		AVG MAG	4.4
	+- 32.3	17.07	2.04	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW IP	10 07 09	U	-9.0	1.61	142		4.7	4.6
	S	23		-14.1					
	ROX P	10 07 28		-0.8	2.40	115		4.1	4.3
	S	53		-3.3					
	GPZ E	10 09 06			4.70	82			
	E	28							

64/ 092

	H M S							
MAR 28	20 25 02.8	44.28S	168.76E	33 KM	SE 1.2		AVG MAG	4.0
	+- 0.6	0.03	0.04	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ROX P*	20 25 25		-0.8	1.26	162		4.1	4.6
	S*	43		0.1					
	MNW EP*	20 25 33		-0.4	1.71	208		4.0	4.0
	I	35							
	S*	57		0.8					
	KAI EP*	20 25 49		0.3	2.60	49	3.6		
	ES*	26 22		-1.0					
	GPZ EP*	20 25 52		-1.1	2.86	80	3.6		
	ES*	26 31		0.2					
	COB ESN	20 26 53		-0.4	4.33	44	4.1		
	WEL ESN	20 27 20		2.3	5.33	58			

64/ 093

	H M S							
MAR 29	08 57 17.1	38.18S	176.37E	33 KM	SE ND		AVG MAG	3.0
	ND	ND	ND	ND				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP EP*	08 57 31		-0.0	0.70	291		2.8	2.8
	S*	41		-0.0					

	TUA	ES*	08 57 46		-0.0	0.87	136			3.3	3.2
		E	58 09								
											64/ 094
	H M S										
MAR 29	09 01 20.7		44.39S	167.77E	33 KM	SE	0.9		AVG MAG		4.1
	+- 0.8		0.03	0.04	R						
			H M S	DIR	RES	DIST	AZ	W-A	W	P	W S
	MNW	P*	09 01 45		-1.1	1.40	184			4.1	4.2
		S*	02 06		1.1						
	ROX	P*	09 01 48		-0.6	1.55	135			3.8	4.1
		S*	02 09		-0.4						
	KAI	EP*	09 02 18		0.5	3.24	56	4.0			
		S*	59		-1.0						
	GPZ	EP*	09 02 24		0.6	3.59	81	3.9			
		E	49								
		ES*	03 11		0.6						
	COB	ESN	09 03 31		5.2*	4.93	50	4.3			
		ES*	51		0.4						
											64/ 095
	H M S										
MAR 31	05 55 32.9		41.91S	174.17E	33 KM	SE	1.9		AVG MAG		3.9
	+- 0.7		0.04	0.06	R						
			H M S	DIR	RES	DIST	AZ	W-A	W	P	W S
	WEL	P*	05 55 47.8		-0.0	0.77	36	3.8			
		S*	59.5		0.9						
	COB	P*	05 55 58		0.4	1.36	307	3.4			
		ES*	56 17		1.1						
	GPZ	EP*	05 56 10		-0.2	2.11	212	3.6			
		S*	37		-1.1						
	KAI	E	05 56 13			2.14	252				
		E	45								
	TNZ	E(P)	05 56 12		-1.6	2.73	3			3.9	3.7
		EP*	20		-0.9						
		ES*	56		-0.8						
		E	57 10								
	CNZ	EPN	05 56 19		3.0	2.91	22			4.5	4.2
		I(P*)	23		-0.9						
		S*	57 09		6.9*						
	KRP	EPN	05 56 36		3.4	4.12	15			4.2	4.0
		EP*	45		0.4						
		ES*	57 35		-3.5						
											64/ 096
	H M S										
MAR 31	09 32 34.0		42.34S	173.13E	33 KM	SE	1.6		AVG MAG		3.2
	+- 0.6		0.03	0.04	R						
			H M S	DIR	RES	DIST	AZ	W-A	W	P	W S
	COB	EP?	09 32 55		0.1	1.29	346	3.2			
		S	33 10.5		-0.1						
	KAI	EP*	09 32 58		0.5	1.29	261	3.1			
		S*	33 15		0.0						
	GPZ	EP*	09 32 59		-0.4	1.40	195	3.0			
		S*	33 18		-0.2						
	WEL	EP*	09 33 03		0.0	1.61	50	3.1			
		ES	30		11.6*						
	TNZ	E(P*)	09 33 34		2.4	3.29	17				3.5
		ES*	34 12		-2.8						
	CNZ	EP*	09 33 36		-1.5	3.63	31			3.4	3.2
		ES*	34 27		2.0						
											64/ 097
	H M S										
MAR 31	22 47 32.9		40.85S	172.90E	12 KM	SE	2.4		AVG MAG		2.9
	+- 1.3		0.07	0.08	R						
			H M S	DIR	RES	DIST	AZ	W-A	W	P	W S
	COB	P*	22 47 37.5		-1.0	0.27	208	2.9			
		S*	41		-1.5						
	WEL	ES*	22 48 20		1.0	1.48	108	2.6			
	KAI	ES*	22 48 37		2.0	2.01	213	2.9			

	TNZ	ES*	22 48 37		1.8	2.02	35				3.3
	CNZ	ES*	22 48 51		-2.3	2.62	52				3.0
											64/ 098
	H M S										
APR 02	19 56 20.4		47.21S	166.06E	33 KM	SE	2.6		AVG MAG		4.9
	+- 3.1		0.32	0.23	R						
			H M S	DIR	RES	DIST	AZ	W-A	W	P	W S
	MNW	P	19 56 45.5		-2.7	1.79	38				
		E(S)	57 12		2.9						
	ROX	EP	19 57 00.5		-2.1	2.84	54			4.8	5.0
		E	02								
		E	31								
		E(S)	35		0.2						
		E(S*)	49		1.3						
	GPZ	E	19 57 55			5.81	55				
		E	58 40								
		E	59 13								
		E	46								
	KAI	E(P)	19 57 48		2.1	6.03	41	5.0			
		E	58 12								
		E(S)	50		-2.0						
		E	59 33								
	COB	E(P)	19 58 09		-0.4	7.77	40	4.9			
		ES	59 31		-2.7						
	TNZ	E(P)	19 58 43		3.3	10.05	40				
		E	20 00 36								
	CNZ	E	19 59 00			10.58	44				
	KRP	E	19 59 05			11.60	40				
		E	24								
		E	20 01 24								
											64/ 099
	H M S										
APR 04	14 35 57.8		38.02S	176.80E	209 KM	SE	2.0		AVG MAG		4.0
	+- 2.6		0.12	0.09	19						
			H M S	DIR	RES	DIST	AZ	W-A	W	P	W S
	KRP	IP	14 36 25.8	U	-2.9	1.00	275			4.3	
	GNZ	P	14 36 31		1.3	1.15	123				4.0
		E(S)	54		-0.5						
		E	37 00								
		E	05								
		E	08								
	TNZ	EP	14 36 41		1.3	2.22	238			3.5	3.2
		E(S)	37 14		2.0						
		E	17								
	WEL	P?	14 36 57		1.1	3.62	205	4.3			
		ES	37 40		-0.8						
	COB	ES	14 37 57		-0.8	4.39	224	4.0			
	GPZ	ES	14 38 45		-0.7	6.48	208	4.8			
											64/ 100
	H M S										
APR 05	20 15 11.9		38.73S	175.71E	186 KM	SE	2.2		AVG MAG		4.5
	+- 1.8		0.11	0.09	16						
			H M S	DIR	RES	DIST	AZ	W-A	W	P	W S
	CNZ	P	20 15 38.7	U	1.3	0.48	195				
		E	16 02								
	KRP	IP	20 15 38.2	U	-0.9	0.82	350			4.7	4.0
		S	58		-2.2						
	TNZ	IP	20 15 43.7	U	2.4	1.13	246			4.2	
		E	48.5								
		E	16 06								
		E	11								
	GNZ	P	20 15 47.3		-0.4	1.81	88			4.3	4.7
		E	16 06.5								
		S	14.5		-0.8						
	WEL	P	20 15 59.2	D	1.9	2.65	196	4.7			
		E	16 24								
		S	34.5		2.3						

	COB	E	20 16 17			3.28	223	4.8		
		E	23							
		S	47		1.4					
	KAI	E	20 16 34.5			5.00	219	4.8		
		S	17 23		-1.7					
	GPZ	EP	20 16 32.5		-0.2	5.47	204			
		E	37							
		E	17 13							
		E	32							
		S	33.5		-2.0					
	ROX	ES	20 18 37		-3.8	8.24	213			
	MNW	EP	20 17 25		2.7	9.25	218			
		S	19 04.5		0.3					
		E	07							

64/ 1

	H M S									
APR 06	06 05 32.3	39.66S	174.28E	232 KM	SE	1.7	AVG MAG	4.3		
	+- 1.2	0.08	0.08	12						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TNZ EP	06 06 03.5		0.3	0.48	9				
	E	21.5								
	E	26								
	WEL IP	06 06 13.0	U	2.4	1.66	167	4.0			
	S	41		0.9						
	COB EP	06 06 13.5		1.3	1.85	219	4.2			
	S	42.5		-0.5						
	KRP P	06 06 12.8	D	-0.8	2.00	30		3.8		
	TUA EP	06 06 19		1.5	2.39	70		4.0	4.1	
	E	50								
	E(S)	52		-0.5						
	GNZ P	06 06 26		0.9	3.08	72		4.7	4.4	
	ES	07 03		-3.1						
	KAI S	06 07 15		-1.5	3.59	216	4.2			
	GPZ EP	06 06 40		1.6	4.21	196	5.0			
	ES	07 29		-0.8						
	MNW ES	06 08 50		-1.7	7.83	217				

64/ 1

	H M S									
APR 07	19 54 07.2	41.73S	171.50E	12 KM	SE	1.2	AVG MAG	2.7		
	+- 1.3	0.04	0.07	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KAI E(P*)	19 54 22		0.1	0.80	185	2.9			
	E	26								
	E(S*)	32		-0.9						
	E(SG)	34		-0.4						
	COB E(S*)	19 54 42		-0.6	1.13	56	2.6			
	GPZ E(P*)	19 54 47		2.1	2.14	157	2.7			
	ES	55 07		-0.7						
	ES*	14		0.9						
	SG	19		-0.4						

64/ 1

	H M S									
APR 09	10 55 58.7	39.21S	174.82E	219 KM	SE	1.5	AVG MAG	3.8		
	+- 1.4	0.07	0.10	11						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TNZ EP	10 56 29		1.4	0.34	275				
	S	49.5		-0.4						
	E	52.5								
	KRP EP	10 56 33		-0.5	1.40	24		3.5		
	WEL EP	10 56 42		2.4	2.07	181	3.7			
	ES	57 12		0.8						
	COB ES	10 57 18		-0.5	2.46	220	3.7			
	GNZ P	10 56 45		0.2	2.56	78				
	ES	57 19		-1.6						
	GPZ EP?	10 57 11		-0.2	4.77	199	4.5			
	E	13								
	ES	58 06		-1.6						

64/ 104

	H M S									
APR 10	09 56 25.6	38.22S	176.51E	193 KM	SE	2.4	AVG MAG	4.0		
	+- 2.3	0.11	0.08	15						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TUA EP	09 56 54.5		1.1	0.77	140		4.0	4.1	
	E	57 14								
	S	15.5		0.6						
	KRP IP	09 56 53	D	-0.6	0.82	290		4.0	3.6	
	ES	57 12		-3.4						
	E	21								
	GNZ EP	09 56 58		1.2	1.26	110		3.9	4.3	
	E	57 04								
	E	16								
	E(S)	19		-2.0						
	E	43								
	TNZ EP	09 57 06		2.8	1.93	239		3.7	3.1	
	E(S)	36		3.8						
	WEL P	09 57 20.2		0.5	3.35	203	4.1			
	E	58 01								
	E(S)	03		1.6						
	COB ES	09 58 17		-0.9	4.09	224	3.9			
	KAI ES	09 58 55		-2.4	5.81	221	4.4			
	GPZ EP	09 57 56		-0.2	6.21	207	4.5			
	S	59 04.5		-2.2						

64/ 105

	H M S									
APR 11	14 45 00.5	35.11S	173.94E	12 KM	SE	3.0	AVG MAG	3.9		
	+- 2.9	0.13	0.12	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ONE EPG	14 45 13.3		-2.4	0.75	153	3.8			
	E	14								
	E	15								
	E(S)	28		-1.1						
	ESG	31		5.1						
	KRP EP*	14 45 53		-1.4	3.09	156		4.1	3.9	
	E	54								
	EPG	46 01		-1.9						
	E(SG)	55		10.4*						
	E	47 36								
	TNZ E	14 46 07			4.08	175		4.0	3.7	
	EP*	11		-0.4						
	E	16								
	E	23								
	E(S*)	47 01		-3.8						
	TUA E	14 46 15			4.50	146			3.8	
	E(P*)	20		1.5						
	EPG	32		0.6						
	GNZ E	14 46 21			4.81	138			3.5	
	E	29								
	COB E(P)	14 46 32		4.1	6.04	189				
	ES	47 39		3.7						
	E	46								
	E(SG)	48 22		-2.1						
	WEL E(P*)	14 46 44		-3.7	6.20	174				
	E	47 15								
	E	47								
	E	51								
	E(L)	49 00								
	KAI E	14 47 00			7.66	194	4.5			
	E(P*)	13		0.3						
	E(S*)	48 54		1.5						
	GPZ E	14 47 12			8.63	186				
	E	48 51								

		H	M	S									64/ 1
APR 11		21	22	05.8	35.39S	178.59E	332 KM	SE	1.6	AVG MAG			4.9
		+-		1.8	0.09	0.15	15						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		P		21	23	06.5		-0.4	3.28	188		4.3	4.9
			E				35							
			E				43							
			I				48							
			I(S)				55		0.3					
	ONE		E(P)		21	23	08		-0.7	3.46	262			
	TUA		EP		21	23	10		-0.0	3.60	198			
			E				54.5							
			E				58							
			E(S)			24	01		0.6					
	TNZ		EP		21	23	28		2.3	5.06	220			
			E			24	42.5							
	WEL		EP		21	23	42		-1.8	6.61	206	5.3		
			ES			25	00		-0.7					
	COB		ES		21	25	14		-1.9	7.32	217	5.0		
	KAI		E		21	24	16			9.05	216	5.1		
			E				24							
			E			25	51							
			ES				56		2.4					
	GPZ		E(P)		21	24	19		0.8	9.47	207			
			E(S)			26	02		-0.8					

		H	M	S									64/ 1
APR 12		11	10	49.9	34.11S	179.37W	259 KM	SE	2.5	AVG MAG			6.7
		+-		1.1	0.09	0.15	20						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		P		11	12	07.6	D	1.3	4.99	204		5.6	6.3
			E				17							
			E				30							
			E				49							
			E(S)			13	06		0.0					
			E(SCS)			26	10							
	RAO		IP		11	12	06.4		-0.1	5.00	15			
			ES			13	03		-3.3					
	ONE		IP		11	12	14.3	W	2.8	5.41	250			
			E				27							
			E(S)			13	16		0.7					
			E				34							
	TUA		P		11	12	14		1.9	5.46	210			
			E				24							
			E				30							
			E			13	04							
			E(S)				17		0.6					
			ESCS			26	05							
	TNZ		EP?		11	12	35		2.1	7.13	223			
			E				36							
			E				45							
			E				55							
			E			14	17							
	WEL		EP		11	12	50.5		-0.2	8.53	211	7.5		
			E			13	03							
			E				15							
			E				43							
			ES			14	22		-3.5					
			ESCP			22	37							
			EPCS				43							
			SCS			26	07.5							
	COB		E(P)		11	13	02		0.9	9.36	220	6.7		
			E				20							
			ES			14	42		-2.2					
			E			15	24							
			E			26	05							

		E			08								
	KAI	E	11	13	29			11.08	218	6.7			
		ES		15	19		-4.3						
		ESCS		26	11								
	GPZ	P	11	13	28.5		1.7	11.40	211	7.3			
		E		15	25								
		ES			28		-2.6						
		ESCP		22	42								
		ESCS		26	14								
	ROX	EP?	11	14	05		2.7	14.28	214				
		E			10								
		E			56								
		E		15	07								
		E		16	29								
		E(S)			36		1.4						
		ESCP		22	46								

		H	M	S									64/ 108
APR 14		04	32	11.6	38.09S	176.59E	182 KM	SE	1.7	AVG MAG			4.7
		+-		1.1	0.04	0.05	8						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		IP		04	32	38.9	D	0.3	0.84	281		4.8	4.5
			E				53							
			S				56.5		-3.0					
	TUA		IP		04	32	39.4	D	0.7	0.85	149		4.9	
			E(S)				59		-0.5					
			E			33	03							
	GNZ		IP		04	32	43.1	U	1.2	1.26	117		5.3	5.1
			E				47							
			E			33	00							
			E(S)				04		-1.2					
	TNZ		P		04	32	53.3	D	3.6	2.05	237		4.1	3.7
			E(S)			33	23		4.0*					
	ONE		EP?		04	33	00.5		0.5	2.91	322	4.0		
			E				01.7							
			ES				36		-1.3					
			E			34	04							
	WEL		EP		04	33	08		0.9	3.49	203	5.1		
			E				21							
			E(*SP)				41							
			S				49		-0.8					
	COB		EP?		04	33	16		-0.4	4.22	224	4.7		
			E				19.5							
			E			34	06							
			ES				07		0.6					
	KAI		E		04	34	44			5.94	220	4.8		
			S				45.5		-0.8					
	GPZ		E(P)		04	33	44		-0.0	6.35	207	5.2		
			E			34	52							
			E(S)				54		-1.9					
	MNW		E(S)		04	36	24		-1.9	10.18	218			

		H	M	S									64/ 109
APR 15		15	02	31.7	45.49S	167.35E	33 KM	SE	1.8	AVG MAG			5.2
		+-		1.2	0.06	0.07	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW		IP		15	02	41.2		1.2	0.34	147			
	ROX		IP*		15	02	55.2	U	-1.6	1.38	90			
			E			03	12.5							
			S*				15		-0.3					
	KAI		E(PN)		15	03	31.7		-0.3	4.16	46	5.2		
			I				51							
			I				58							
			E(SN)			04	19		0.7					
			E				41							
	GPZ		EPN		15	03	30.5		-1.8	4.19	66	5.0		
			I				54.5							

	ISN		04 20		1.2			
	E		45					
COB	EP	15	03 52.5		-3.0	5.90	44	5.0
	I		55					
	ES		04 58		-2.1			
	E		05 03					
WEL	(P)	15	04 12.5		4.2	6.84	55	5.2
	S		05 23		0.3			
	E		34					
	E		38					
TNZ	PN	15	04 25		-1.0	8.17	42	
	E		43					
	ESN		05 55		0.5			
KRP	PN	15	04 45		-1.6	9.72	42	
	E		55					
	E		06 14					
	ESN		32		0.6			
	E		07 24					
TUA	E	15	04 56			9.87	51	
	E		06 55					
	E		07 12					
GNZ	EPN	15	04 57		0.5	10.47	53	
	E		05 14					
	ESN		06 50		1.0			
	E		07 10					
ONE	EPN	15	05 06		1.7	11.06	31	5.5
	ESN		06 56		-7.0*			

64/ 1

H	M	S					AVG MAG	5.1
APR 15 16	52	25.2	37.71S	177.71E	12 KM	SE 2.2		
+-		1.3	0.05	0.08	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	16	52	44.9	U	0.5	0.96	165			
TUA	P	16	52	46.3	U	-1.0	1.18	202			
	E(P*)			48		1.5					
KRP	IP	16	52	53.0		-1.6	1.74	262			
TNZ	EP	16	53	13.5		1.7	3.00	240		5.1	
	I			15							
	E(P*)			20		2.4					
ONE	EP	16	53	14		-1.9	3.31	305	4.5		
	E			17							
	E			19							
	E(S*)			57		-9.4*					
	ESG		54	17		0.1					
WEL	P	16	53	27		-1.4	4.24	212			
	E			36							
	E(P*)			43		4.2					
	E(S)		54	17		0.4					
	E			20							
	E(S*)			36		1.9					
	E(SG)			45		-3.0					
	E		55	02							
COB	E(P)	16	53	42		1.7	5.12	227			
	E		54	06							
	E			30							
	E			40							
	E			50							
	E		55	01							
KAI	E	16	54	07			6.82	223			
	E			45							
	S		55	19.5		1.1					
	E			45							
	E		56	12							
GPZ	E(P)	16	54	05		-2.0	7.11	211	5.4		
	E		55	17							
	ES			21		-4.3					
ROX	EP	16	54	45		0.1	9.98	216			

	E		55	06				
	E(S)		56	33	-0.4			
	EL		58	00				

64/ 111

H	M	S					AVG MAG	4.3
APR 16 07	44	52.1	37.45S	177.29E	179 KM	SE 0.6		
+-		0.6	0.03	0.03	4			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	07	45	22.2	U	-0.5	1.33	154			5.1
	E			23							
	E			34							
	E			40							
	E(S)			46		-0.3					
TUA	EP	07	45	23.5		0.5	1.36	184		3.7	4.4
	E			35							
	E			42							
	S			47.5		0.6					
KRP	IP	07	45	24.6	D	0.6	1.47	250		4.6	3.8
	ES			48		-0.6					
TNZ	EP	07	45	44.0		4.2*	2.87	232		3.5	
ONE	EP	07	45	40		0.0	2.88	304			
WEL	EP	07	45	57.5		-0.3	4.30	206	4.8		
	S		46	48.5		-0.0					

64/ 112

H	M	S					AVG MAG	5.2
APR 16 19	15	48.1	32.25S	179.37W	345 KM	SE 2.9		
+-		4.8	0.39	0.97	56			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EP	19	17	26		-1.9	6.73	198			
	E			35							
	E(S)		18	49		2.8					
KRP	EP	19	17	33		1.5	7.03	215			
TUA	EP	19	17	33		0.3	7.13	202			
	ES		18	53		-1.8					
WEL	S	19	19	58		-2.4	10.17	206	5.3		
GPZ	ES	19	21	04		1.4	13.04	207	5.0		

64/ 113

H	M	S					AVG MAG	3.9
APR 19 02	51	18.5	41.14S	173.72E	12 KM	SE 1.9		
+-		0.5	0.04	0.05	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P	02	51	37.0		1.3	0.80	101	3.8		
	S			49.5		1.2					
TNZ	EP	02	51	52		0.4	2.01	15			4.2
	E(PG)		52	00		0.7					
	E			12							
	ES			16		0.0					
KAI	E(P)	02	51	55		0.6	2.22	231	3.5		
	ES		52	20		-1.0					
	ESG			36		2.7					
TON	E(P)	02	51	59		2.4	2.38	36			
	ES		52	28		3.1					
	E(SG)			41		2.2					
	E			47							
GPZ	EPG	02	52	11		-1.7	2.68	197	3.9		
	E			02							
	ES			30		-2.6					
KRP	EP	02	52	11.5		-0.3	3.50	24		4.0	4.1
	P*			18.5		-1.0					
	ES			50		-2.2					
	ESG		53	14		-2.6					
TUA	E(P*)	02	52	19		-0.7	3.51	50			3.6
	ES			50		-2.4					

64/ 114

H	M	S					AVG MAG	4.4
APR 19 05	18	48.1	37.42S	177.35E	206 KM	SE 2.1		
+-		1.9	0.06	0.08	14			

		ISN	04 20	1.2				
		E	45					
	COB	EP	15 03 52.5	-3.0	5.90	44	5.0	
		I	55					
		ES	04 58	-2.1				
		E	05 03					
	WEL	(P)	15 04 12.5	4.2	6.84	55	5.2	
		S	05 23	0.3				
		E	34					
		E	38					
	TNZ	PN	15 04 25	-1.0	8.17	42		
		E	43					
		ESN	05 55	0.5				
	KRP	PN	15 04 45	-1.6	9.72	42		
		E	55					
		E	06 14					
		ESN	32	0.6				
		E	07 24					
	TUA	E	15 04 56		9.87	51		
		E	06 55					
		E	07 12					
	GNZ	EPN	15 04 57	0.5	10.47	53		
		E	05 14					
		ESN	06 50	1.0				
		E	07 10					
	ONE	EPN	15 05 06	1.7	11.06	31	5.5	
		ESN	06 56	-7.0*				

64/ 111

	H M S							
APR 15	16 52 25.2	37.71S	177.71E	12 KM	SE	2.2	AVG MAG	5.0
	+- 1.3	0.05	0.08	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	16 52 44.9	U	0.5	0.96	165			
TUA	P	16 52 46.3	U	-1.0	1.18	202			
	E(P*)	48		1.5					
KRP	IP	16 52 53.0		-1.6	1.74	262			
TNZ	EP	16 53 13.5		1.7	3.00	240			5.1
	I	15							
	E(P*)	20		2.4					
ONE	EP	16 53 14		-1.9	3.31	305	4.5		
	E	17							
	E	19							
	E(S*)	57		-9.4*					
	ESG	54 17		0.1					
WEL	P	16 53 27		-1.4	4.24	212			
	E	36							
	E(P*)	43		4.2					
	E(S)	54 17		0.4					
	E	20							
	E(S*)	36		1.9					
	E(SG)	45		-3.0					
	E	55 02							
COB	E(P)	16 53 42		1.7	5.12	227			
	E	54 06							
	E	30							
	E	40							
	E	50							
	E	55 01							
KAI	E	16 54 07			6.82	223			
	E	45							
	S	55 19.5		1.1					
	E	45							
	E	56 12							
GPZ	E(P)	16 54 05		-2.0	7.11	211	5.4		
	E	55 17							
	ES	21		-4.3					
ROX	EP	16 54 45		0.1	9.98	216			

		E	55 06					
		E(S)	56 33	-0.4				
		EL	58 00					

64/ 111

	H M S							
APR 16	07 44 52.1	37.45S	177.29E	179 KM	SE	0.6	AVG MAG	4.3
	+- 0.6	0.03	0.03	4				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	07 45 22.2	U	-0.5	1.33	154			5.1
	E	23							
	E	34							
	E	40							
	E(S)	46		-0.3					
TUA	EP	07 45 23.5		0.5	1.36	184		3.7	4.4
	E	35							
	E	42							
	S	47.5		0.6					
KRP	IP	07 45 24.6	D	0.6	1.47	250		4.6	3.8
	ES	48		-0.6					
TNZ	EP	07 45 44.0		4.2*	2.87	232		3.5	
ONE	EP	07 45 40		0.0	2.88	304			
WEL	EP	07 45 57.5		-0.3	4.30	206	4.8		
	S	46 48.5		-0.0					

64/ 112

	H M S							
APR 16	19 15 48.1	32.25S	179.37W	345 KM	SE	2.9	AVG MAG	5.2
	+- 4.8	0.39	0.97	56				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EP	19 17 26		-1.9	6.73	198			
	E	35							
	E(S)	18 49		2.8					
KRP	EP	19 17 33		1.5	7.03	215			
TUA	EP	19 17 33		0.3	7.13	202			
	ES	18 53		-1.8					
WEL	S	19 19 58		-2.4	10.17	206	5.3		
GPZ	ES	19 21 04		1.4	13.04	207	5.0		

64/ 113

	H M S							
APR 19	02 51 18.5	41.14S	173.72E	12 KM	SE	1.9	AVG MAG	3.9
	+- 0.5	0.04	0.05	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P	02 51 37.0		1.3	0.80	101	3.8		
	S	49.5		1.2					
TNZ	EP	02 51 52		0.4	2.01	15			4.2
	E(PG)	52 00		0.7					
	E	12							
	ES	16		0.0					
KAI	E(P)	02 51 55		0.6	2.22	231	3.5		
	ES	52 20		-1.0					
	ESG	36		2.7					
TON	E(P)	02 51 59		2.4	2.38	36			
	ES	52 28		3.1					
	E(SG)	41		2.2					
	E	47							
GPZ	EPG	02 52 11		-1.7	2.68	197	3.9		
	E	02							
	ES	30		-2.6					
KRP	EP	02 52 11.5		-0.3	3.50	24		4.0	4.1
	P*	18.5		-1.0					
	ES	50		-2.2					
	ESG	53 14		-2.6					
TUA	E(P*)	02 52 19		-0.7	3.51	50			3.6
	ES	50		-2.4					

64/ 114

	H M S							
APR 19	05 18 48.1	37.42S	177.35E	206 KM	SE	2.1	AVG MAG	4.4
	+- 1.9	0.06	0.08	14				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	05	19	22.6	U	1.5	1.33	157		5.3	4.6
	E			44							
	S			47.5		0.8					
TUA	EP	05	19	22.5	D	0.9	1.40	186		4.4	4.7
	E			38							
	E			40							
	E			43							
	ES			45		-2.6					
KRP	IP	05	19	23.1	D	0.4	1.53	250		4.5	
	E			32							
	E			37							
	E			42							
	E			53							
TON	E	05	19	37			2.28	218	3.6		
	ES		20	03		0.1					
ONE	EP	05	19	38		0.5	2.91	303	3.4		
	ES		20	14		-1.8					
TNZ	EP	05	19	40		2.3	2.93	232		3.9	3.6
	E(S)		20	19		2.8					
WEL	EP	05	19	54.5		-0.6	4.35	207	5.1		
	ES		20	44		-3.0					
KAI	ES	05	21	43		-1.3	6.84	220	4.7		
GPZ	E	05	20	32			7.22	208	4.9		
	ES		21	48		-5.1*					
	E			58							

64/ 115

	H	M	S							
APR 21	13	46	07.6	39.28S	178.43E	12 KM	SE	1.1	AVG MAG	3.9
	+-		1.1	0.03	0.07	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP*	13	46	21.2	U	0.4	0.71	333			
TUA	IP*	13	46	25.5		-2.0	1.10	295			
	E(S*)			32		-10.4*					
CNZ	EP	13	46	43.5		-0.2	2.24	271		3.9	
	EP*			47		-0.0					
	EPG			53		0.1					
TON	EP*	13	46	48		0.9	2.25	271	3.5		
	PG			53.5		0.4					
	ES		47	11		0.3					
KRP	EP	13	46	49.0		-0.4	2.64	300		3.8	3.5
	P*			52.5		-1.3					
	EPG		47	02		1.0					
	E(S)			21		0.3					
TNZ	EP	13	46	57		0.9	3.15	270		3.8	
	E		47	10							
WEL	EP	13	47	02		1.8	3.44	233	3.9		
	PG			14.5		-2.8					
	E			25							
	ES			40		0.1					
	E			44							
COB	ES	13	48	11		0.3	4.72	246	3.9		
GPZ	ES	13	48	46		0.1	6.19	223	4.2		
KAI	ES	13	48	47		0.2	6.23	236	4.5		

64/ 116

	H	M	S							
APR 22	17	29	41.4	37.51S	177.55E	155 KM	SE	0.6	AVG MAG	4.7
	+-		0.4	0.02	0.02	3				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	17	30	09	U	0.5	1.19	162		5.2	5.2
	E			20							
	E(S)			29		-0.4					
	E			41							5.0
TUA	EP	17	30	10.3		0.4	1.34	193			
	E			15							
	E			23							
	E			27							

	E(S)			32		0.2				
	E			37						4.4
KRP	IP	17	30	13.8	D	0.6	1.65	255		
	E(S)			37		-0.6				
TNZ	EP	17	30	32	D	2.4*	3.00	235	4.5	
ONE	EP	17	30	30.5		-0.3	3.09	303	3.7	
	E			45						
	E(S)		31	09		0.4				
	E			37						
WEL	EP	17	30	46		-1.1	4.35	209	4.9	
	ES		31	38		0.3				
COB	E(P)	17	30	57.5		-0.4	5.17	225	4.6	
	ES		31	57		-0.2				
KAI	E	17	31	25			6.88	221	4.9	
	ES		32	38		-0.1				
GPZ	E	17	31	25			7.22	210	5.0	
	E		32	42						
	ES			47		0.8				
MNW	EP	17	32	16.5		-0.1	11.11	219		

64/ 117

	H	M	S							
APR 23	08	04	31.4	40.87S	175.94E	12 KM	SE	2.0	AVG MAG	3.0
	+-		1.6	0.05	0.08	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	EP*	08	04	47		-2.1	0.98	245	2.7		
	E(PG)			54		2.8					
	E(S*)		05	00		-2.3					
	E(SG)			04		-0.4					
TON	E	08	05	11			1.69	350	2.8		
	E(SN)			21		-0.5					
CNZ	E(P*)	08	05	02		0.5	1.70	350			3.2
	E(PG)			06		0.2					
	E(S*)			21		-3.0					
TNZ	EP*?	08	05	09		1.2	2.07	324			3.0
	E(PG)			13		-0.2					
	E(SG)			42		0.9					
	E			53							
COB	ES	08	05	38		-1.1	2.43	264	3.0		
	S*			48.5		2.3					
KRP	E(P*)	08	05	26		2.9	2.96	354		3.2	
	EPG			30		-1.3					

64/ 118

	H	M	S							
APR 23	11	46	53.6	31.54S	177.30W	269 KM	SE	7.0	AVG MAG	5.5
	+-		8.7	0.65	1.26	149				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
RAO	EP	11	47	40		-1.0	2.35	347			
	ES		48	08		-10.0					
GNZ	E(P)	11	48	52		3.7	8.05	207			
	E		50	18							
ONE	EP	11	48	53		3.7	8.13	236			
TUA	P	11	48	57		2.4	8.55	211			
	E		50	24							
	E(S)			30		0.4					
KRP	EP	11	48	58		1.9	8.67	221			
	E		50	36							
WEL	ES	11	51	31		-8.0	11.63	211	5.7		
GPZ	E	11	51	53			14.50	210	5.3		
	E		52	01							
	E(S)			36		-6.6					
	E			39							

64/ 119

	H	M	S							
APR 24	08	05	12.7	37.56S	176.63E	297 KM	SE	1.4	AVG MAG	4.3
	+-		1.1	0.06	0.07	7				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	08	05	52.5	U	-0.2	0.94	247		4.1	3.3
	E(S)		06	25		1.1					
TUA	IP	08	05	55	D	0.2	1.31	162		4.9	4.4
	ES		06	26		-1.4					
GNZ	IP	08	05	57	U	0.7	1.54	135		5.2	4.7
	E		06	26							
	E(S)			29		-1.0					
CNZ	IP	08	05	59.5		1.2	1.85	207		3.6	3.2
	E		06	16							
	E(S)			34		0.2					
TON	EP	08	06	00		1.7	1.85	207			
	E			39							
TNZ	EP	08	06	04.5		1.6	2.40	227		4.3	3.3
	E			29							
	E(S)			47		4.9*					
ONE	EP	08	06	02		-2.3	2.55	314			
WEL	EP?	08	06	18.5		-0.6	3.99	201	4.7		
	E			20							
	ES		07	12		0.9					
COB	E	08	06	37			4.64	219	4.4		
	ES		07	23		-1.2					
KAI	ES	08	07	59		-2.1	6.37	217	4.6		
GPZ	EP	08	06	53		0.3	6.84	205	4.9		
	E		08	10							
	E(S)			12		0.9					

64/ 121

	H	M	S						AVG MAG	4.1
APR 24	09	05	43.4	38.40S	175.68E	204 KM	SE	2.0		
	+-		1.7	0.05	0.07	14				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	EP	09	06	13	D	1.9	0.49	347			
	E(S)			33		0.6					4.1
TUA	E	09	06	18			1.22	110			
	ES			38		-2.1					
TNZ	EP	09	06	19		3.1	1.28	232		3.3	
	E			41							
	E			45							
GNZ	EP	09	06	23		1.9	1.85	98		4.3	4.3
	E			44							
	E(S)			49		-1.1					
ONE	E(S)	09	07	07		-2.3	2.83	338	3.4		
WEL	P	09	06	35		1.6	2.96	193	4.2		
	E		07	05							
	ES			12		-0.1					
COB	S	09	07	23.5		-0.2	3.51	219	4.3		
KAI	ES?	09	08	02		-0.7	5.25	217	4.5		
	E			11							
GPZ	EP	09	07	08		-0.4	5.76	202	4.7		
	E		08	10							
	E(S)			12		-2.5					

64/ 122

	H	M	S						AVG MAG	3.4
APR 27	09	20	19.8	41.46S	175.26E	12 KM	SE	1.2		
	+-		0.8	0.03	0.04	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IPG	09	20	29.5	DNE	1.1	0.41	295	3.8		
	SG			35		0.9					
COB	E(PG)	09	20	59		-0.1	1.94	280	3.0		
	E		21	03							
	ES			14		-1.5					
	ES*			19		-0.8					
TON	E(SN)	09	21	25		1.6	2.26	6	3.2		3.3
TNZ	E(P)	09	20	58		0.3	2.37	343			
	E		21	11							
	ES*			28		-4.7*					
	ESG			40		0.3					

GPZ	ES	09	21	41		0.5	2.95	220	3.2	
KRP	EP*	09	21	20		-1.4	3.54	4	3.4	3.5
	E			25						
	ES*		22	07		-0.8				

64/ 122

	H	M	S						AVG MAG	3.3
APR 27	09	47	10.6	41.37S	175.17E	12 KM	SE	2.4		
	+-		2.6	0.09	0.09	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IPG	09	47	18	DNE	0.7	0.31	286	3.5		
	SG			23.5		1.7					
COB	E(PG)	09	47	47.5		-0.7	1.86	278	3.0		
	ES		48	03		-1.4					
	ES*			08		-0.1					
TNZ	E(P)	09	47	46.5		-0.6	2.27	344			3.5
	E			53							
	ES*		48	16		-4.4					
	ESG			30		2.9					
GPZ	E	09	48	29			2.98	218	3.2		
	E			31							
KRP	E(P*)	09	48	13		2.2	3.46	5		3.4	3.3
	E			08							
	E			50							
	ES*			56		-0.1					

64/ 123

	H	M	S						AVG MAG	3.7
APR 29	08	46	30.7	38.89S	175.88E	167 KM	SE	1.8		
	+-		1.9	0.09	0.09	14				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TON	E	08	46	56			0.41	220	3.3		
	ES		47	11		-0.5					
	E			17							
TUA	E(P)	08	46	58		0.8	1.00	86			4.2
	E		47	12							
	ES			17		-0.6					
KRP	IP	08	46	56	D	-1.2	1.00	344		4.1	3.2
	E		47	15							
	E			24							
TNZ	EP	08	47	00		1.0	1.20	255			3.4
	E			22							
	E			31							
GNZ	E	08	47	06			1.69	82			
	E			13.5							
	E			28							
	E			34							
WEL	E	08	47	16			2.54	199	3.9		
	ES			49		2.2					
COB	ES	08	48	03		0.3	3.26	227	3.9		
GPZ	ES	08	48	50		-1.9	5.38	206	4.0		

64/ 124

	H	M	S						AVG MAG	5.0
MAY 02	02	27	59.9	45.05S	167.64E	33 KM	SE	1.1		
	+-		0.6	0.03	0.04	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP*	02	28	14		-0.2	0.73	181			
	ES*			25		0.5					
ROX	IP*	02	28	22.3		-0.6	1.26	110			
	S*			40		0.1					
GPZ	EPN	02	28	54		-1.8	3.84	71	4.7		
	I			57							
	E		29	35							
	ISN			40		1.4					
COB	EPN	02	29	17		-0.5	5.44	45	5.0		
	SN			30	18	0.6					
WEL	EP	02	29	30		-0.9	6.43	57	5.2		
	S			30	40	-1.0					
TNZ	EPN	02	29	49		0.9	7.71	43			

		ESN		31 17		5.3*					
	KRP	EPN		02 30 10		1.3	9.26	42			
		E		18							
		E		32 15.							

64/ 125

	H M S									
MAY 02	07 17 36.3	37.87S	177.67E	139 KM	SE 1.3		AVG MAG	4.5		
	+- 1.5	0.07	0.06	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ IP	07 17 59.0	U	0.2	0.82	160		4.7	5.1	
	E	18 08								
	S	15		-1.0						
	TUA P	07 18 01		0.5	1.02	203		4.5	4.6	
	S	20		1.0						
	KRP IP	07 18 06.8	D	-0.8	1.69	268		4.2	3.6	
	ES	31		-0.4						
	TNZ (P)	07 18 25		2.2	2.89	242		4.0		
	E	29								
	WEL P	07 18 38		-0.3	4.08	212	4.6			
	S	19 26		0.1						
	COB ES	07 19 46		-1.5	4.99	228	4.4			
	GPZ ES	07 20 29		-5.9*	6.95	212	4.8			

64/ 126

	H M S									
MAY 02	10 06 11.0	37.38S	176.14E	33 KM	SE 1.4		AVG MAG	3.6		
	+- 3.1	0.21	0.07	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P*	10 06 25		-0.2	0.72	221		3.7	3.8	
	S*	36		0.5						
	TUA EP*	10 06 39		-1.3	1.63	151				
	GNZ (P*)	10 06 47		1.3	1.95	131		3.5	3.3	
	E	58								
	TNZ EP*	10 06 51		-0.2	2.27	217				

64/ 127

	H M S									
MAY 03	12 38 13.4	41.07S	175.42E	12 KM	SE 2.1		AVG MAG	4.0		
	+- 0.8	0.05	0.06	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL IP*	12 38 24.7	DE	1.0	0.54	246	4.0			
	S*	33.2		1.9						
	COB EP*	12 38 48		-1.2	2.03	269	3.8			
	ESN	39 11		-0.3						
	E	14								
	TNZ P	12 38 47		0.2	2.04	337		4.0	4.2	
	S*	39 16		-0.4						
	TUA EP*	12 39 01		1.7	2.62	31		4.0		
	KRP EPN	12 38 59		-2.8	3.14	2		4.3	4.1	
	IP*	39 07		-1.2						
	ES*	50		0.6						
	GNZ EPN	12 39 02		0.1	3.14	40		3.9		
	EP*	10		1.7						
	E	28								
	GPZ EP*	12 39 12		0.5	3.33	217	3.7			
	ESN	40		-3.0						
	KAI EPG?	12 39 18		-2.8	3.33	243	3.8			
	ESN	47		4.0						
	E	40 13								

64/ 128

	H M S									
MAY 04	21 04 47.2	44.86S	167.36E	33 KM	SE 0.0		AVG MAG	4.1		
	+- 0.0	0.00	0.00	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW IP	21 05 03.3		-0.0	0.94	169		4.2	4.1	
	S	15.2		-0.0						
	ROX P	21 05 11.2		0.0	1.51	115		4.2	4.0	
	S	29.3		0.0						
	GPZ E	21 06 25			3.97	75				

		TON EP		18 03 54.8		1.3	0.39	85	4.7		
		IS		04 13		0.0					
		CNZ IP		18 03 54.2	U	0.6	0.40	85			
		S		04 12		-1.0					
		TNZ P		18 03 54.6	U	0.6	0.51	276		4.6	
		WNZ P		18 03 57		0.0	1.03	54		5.0	4.8
		(S)		04 22		2.8					
		KRP IP		18 03 59.0	D	-0.8	1.37	17		4.6	4.5
		ES		04 21		-3.2					
		TUA IP		18 04 03.7	D	0.7	1.70	76		5.2	5.5
		S		29		-0.8					
		WEL IP		18 04 09.1	USE	2.4	2.06	186	5.3		
		S		37		0.6					
		GNZ IP		18 04 10.8		0.2	2.40	77		5.5	5.7
		E		33							
		S		41		-2.3					
		COB EP		18 04 14		1.5	2.55	223	5.3		
		S		46.5		-0.1					
		ONE E		18 04 14			3.50	351	4.0		
		E		43							
		KAI EP		18 04 38		4.1	4.28	219	5.5		
		S		05 23		-1.6					
		GPZ P		18 04 42		1.5	4.80	201	6.0		
		S		05 33.3		-3.2					
		ROX P		18 05 16		-0.3	7.53	212			
		S		06 35		-5.6*					
		MNW EP		18 05 28		-1.3	8.53	218			
		S		07 02		-1.9					

64/ 129

	H M S									
MAY 05	18 03 28.3	39.24S	175.04E	186 KM	SE 1.9		AVG MAG	5.1		
	+- 0.9	0.07	0.07	8						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TON EP	18 03 54.8		1.3	0.39	85	4.7			
	IS	04 13		0.0						
	CNZ IP	18 03 54.2	U	0.6	0.40	85				
	S	04 12		-1.0						
	TNZ P	18 03 54.6	U	0.6	0.51	276		4.6		
	WNZ P	18 03 57		0.0	1.03	54		5.0	4.8	
	(S)	04 22		2.8						
	KRP IP	18 03 59.0	D	-0.8	1.37	17		4.6	4.5	
	ES	04 21		-3.2						
	TUA IP	18 04 03.7	D	0.7	1.70	76		5.2	5.5	
	S	29		-0.8						
	WEL IP	18 04 09.1	USE	2.4	2.06	186	5.3			
	S	37		0.6						
	GNZ IP	18 04 10.8		0.2	2.40	77		5.5	5.7	
	E	33								
	S	41		-2.3						
	COB EP	18 04 14		1.5	2.55	223	5.3			
	S	46.5		-0.1						
	ONE E	18 04 14			3.50	351	4.0			
	E	43								
	KAI EP	18 04 38		4.1	4.28	219	5.5			
	S	05 23		-1.6						
	GPZ P	18 04 42		1.5	4.80	201	6.0			
	S	05 33.3		-3.2						
	ROX P	18 05 16		-0.3	7.53	212				
	S	06 35		-5.6*						
	MNW EP	18 05 28		-1.3	8.53	218				
	S	07 02		-1.9						

64/ 130

	H M S									
MAY 06	20 31 28.5	32.83S	177.48W	255 KM	SE 5.1		AVG MAG	5.5		
	+- 6.6	0.33	0.75	93						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	RAO EP	20 32 27		-1.3	3.59	354				
	ES	33 13		-1.8						
	GNZ EP	20 33 12		4.0	6.85	211				
	E	31								
	E	34 36								
	ONE EP	20 33 23		8.6	7.36	244				
	TUA P	20 33 19		4.2	7.38	215				
	S	34 37		-1.0						
	KRP EP	20 33 11		-6.9	7.63	226				
	E	29								
	TNZ E	20 33 49			9.14	224				
	E	34 03								
	WEL E	20 35 26			10.46	214	5.9			
	S	44		-3.8						
	LR	36 36								
	COB S	20 36 09		0.8	11.35	221	5.4			
	KAI ES	20 36 45		-1.5	13.06	219	5.3			
	GPZ ES	20 36 51		-1.2	13.32	213	5.5			

64/ 131

	H M S									
MAY 07	00 45 00.4	38.67S	176.39E	63 KM	SE 2.4		AVG MAG	4.2		
	+- 1.6	0.07	0.07	24						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ P	00 45 11		0.0	0.23	280				
	TUA IP	00 45 14.1	D	-0.2	0.61	103		4.4	4.7	
	E	20								
	E	29								
	CNZ P	00 45 17.0		-0.1	0.85	231		3.5		
	TON EP	00 45 18		0.8	0.85	231	3.1			

		S		31		1.2				
	KRP	IP	00	45	18.5	-0.6	1.00	318	4.3	4.1
		S			32	-1.1				
	GNZ	IP	00	45	22.1 D	-0.7	1.27	89	4.7	4.5
		E			46					
	TNZ	P	00	45	28	0.1	1.65	251	3.7	
		E			55					
	WEL	EP	00	45	50	4.6	2.90	205	4.2	
		S			46 15	-4.5				
	COB	ES	00	46	40	0.6	3.71	228	4.3	
	GPZ	ES	00	47	20	-10.8*	5.76	208	4.5	

64/ 133

	H	M	S									
MAY 07	16	31	19.8	38.94S	175.82E	12 KM	SE	1.8	AVG MAG	3.5		
	+-		0.6	0.03	0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	CNZ		PG	16	31	27		0.1	0.33	220		
	TON		E	16	31	28			0.34	220	2.7	
			SG			31		-0.8				
	WNZ		E(SG)	16	31	34		0.8	0.38	35		
	KRP		PG	16	31	37.5		-3.5	1.04	348		3.6 3.2
			(S)			56		1.1				
	TUA		EPG	16	31	42		0.9	1.05	83		3.4 3.4
			ESG			55		-0.3				
	TNZ		EPG	16	31	42		-1.1	1.15	257		3.3
			ESG			32 01		2.3				
	WEL		EP*?	16	32	05		1.7	2.48	199	3.5	
			ESG			42		-1.3				
	COB		ESN	16	32	53		7.0*	3.19	227	3.9	
	GPZ		E	16	33	49			5.31	206	4.4	
			E			34 46						

64/ 13

	H	M	S									
MAY 08	11	47	13.9	41.60S	173.46E	33 KM	SE	0.9	AVG MAG	4.8		
	+-		0.2	0.02	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	COB		IP*	11	47	27.9	E	-0.6	0.75	313	4.5	
			S*			38		-1.1				
	WEL		IP*	11	47	32.9	DSW	-0.2	1.03	73	4.6	
			S*			47.5		0.3				
	KAI		PN	11	47	42.5		0.8	1.79	238	4.9	
			SN			48 03		0.4				
	GPZ		EPN	11	47	46		-1.1	2.18	196	5.0	
			EP*			52		-0.6				
			I			56						
			ISN			48 11		-1.1				
	TNZ		PN	11	47	53		1.4	2.51	17		
	TON		E(P)	11	48	00		3.4*	2.87	34	5.1	
			E			07						
			E			10						
			E(SN)			29		0.0				
			E			35						4.8
	CNZ		PN	11	47	58		1.3	2.88	34		
			IP*			48 04		-0.5				
			E			35						5.1
	TUA		EP*	11	48	20		-3.1*	3.97	47		5.0
	KRP		P	11	48	12		-0.0	4.00	24		
			E			47						4.8 5.1
	GNZ		EPN	11	48	19		-0.8	4.58	51		
			IP*			34		0.5				
			E			49 06						
			SN			09		-1.5				
			E			44						4.5 4.7
	ROX		EPN	11	48	24		-0.4	4.91	216		
			E			33						
			SN			49 19		0.5				
	ONE		EPN	11	48	40		2.9*	5.86	7	5.1	

		SN		49 40		-1.4				
	MNW	EPN	11	48	39	0.6	5.95	223	4.6	4.5
		E			48					
		ES		49	44	0.4				

64/ 134

	H	M	S									
MAY 08	22	54	38.3	37.55S	179.14E	111 KM	SE	1.4	AVG MAG	4.4		
	+-		2.8	0.09	0.16	14						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	GNZ		PN	22	55	04.5		-0.1	1.41	219		4.1 4.6
			E			16						
			ESN			24		-0.4				
			I			31						
	TUA		PN	22	55	13		1.1	2.01	231		4.0 4.4
			E			43						
	KRP		EP	22	55	23		-0.8	2.88	261		3.7
	TON		E	22	56	14			3.28	239		
	WEL		S	22	56	51		0.6	5.04	221	5.0	
	COB		ES	22	57	18		1.7	6.10	233	4.6	
	KAI		ES	22	57	55		-1.3	7.74	228	4.8	
	GPZ		ES	22	57	59		-0.7	7.88	217	5.0	

64/ 135

	H	M	S									
MAY 09	02	39	09.4	38.82S	175.82E	33 KM	SE	2.8	AVG MAG	3.4		
	+-		1.1	0.08	0.11	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ		ES*?	02	39	21		-1.2	0.29	50		
	CNZ		EP*	02	39	17		-2.0	0.44	209		
	TON		EP	02	39	18		-0.9	0.45	210	3.1	
			S*			21.5		-4.6				
	KRP		IP*	02	39	28	U	1.0	0.92	346		3.6
	TUA		EP	02	39	29		2.1	1.04	90		3.4 3.5
			E			46						
	TNZ		EP*	02	39	31		-0.1	1.18	251		3.5
			E			52						
	GNZ		E	02	39	47			1.73	85		
	WEL		ES*	02	40	32		2.6	2.60	198	3.6	
	COB		ES*	02	40	53		3.0	3.28	225	3.5	

64/ 136

	H	M	S									
MAY 09	07	11	47.9	39.19S	174.97E	214 KM	SE	1.5	AVG MAG	4.2		
	+-		1.1	0.07	0.07	10						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	TON		ES	07	12	39		0.3	0.45	92	3.5	
	TNZ		P	07	12	18		1.4	0.46	270		
	KRP		P	07	12	21		-0.7	1.34	20		3.1
	TUA		P	07	12	26		0.7	1.74	78		4.3 4.4
			ES			53		-1.2				
	WEL		P	07	12	31.0		2.2	2.10	184	4.4	
			S			13 02		1.6				
	GNZ		IP	07	12	33.8	D	1.4	2.45	78		4.6 4.8
			IS			13 05		-1.9				
			E			09						
	COB		EP	07	12	34		0.3	2.55	221	3.9	
			ES			13 08		-1.1				
	KAI		EP?	07	13	04		9.7*	4.29	218	4.3	
			ES			44		-1.9				
	GPZ		EP	07	13	01		-0.1	4.83	200	4.9	
			S			57		-1.0				

64/ 137

	H	M	S									
MAY 10	17	23	14.3	39.34S	175.00E	153 KM	SE	1.8	AVG MAG	5.0		
	+-		0.7	0.04	0.06	9						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	TON		P	17	23	37.6	NW	1.7	0.44	73	4.6	
			S			52		-0.6				
	CNZ		IP.	17	23	37.5		1.5	0.45	72		

	KRP	IP	17 23 44.0	D	-0.2	1.47	17		4.8	4.9
		S	24 05		-2.0					
	TUA	P	17 23 48.2	D	1.0	1.76	73		5.0	5.0
		S	24 09.5		-3.0					
	WEL	IP	17 23 52.3	USE	2.9	1.96	185	4.8	4.4	
		S	24 18		1.5					
	GNZ	P	17 23 56.1	D	0.5	2.46	75		5.5	5.6
		ES	24 27		-0.2					
	ONE	P	17 24 11		0.9	3.59	352	4.5		
		S	53		0.0					
	KAI	EP	17 24 20		2.1	4.19	219	5.4		
		S	25 06		-0.9					
	GPZ	EP	17 24 25		0.3	4.70	201	5.8		
		S	25 16		-2.9					
	ROX	EP?	17 25 01		-0.1	7.43	213			
		S	26 19		-5.4*					
	MNW	EP	17 25 14		-0.4	8.43	218			
		S	26 46		-2.1					

64/ 139

	H	M	S									
MAY 11	08	32	55.1	36.35S	177.86E	275 KM	SE	0.8	AVG MAG			4.5
	+-		1.4	0.04	0.08	10						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	P		08	33	42.8	U	0.2	2.29	177		4.8	4.7
		ES			34	19		-0.6					
	KRP	P		08	33	44.6		0.7	2.43	229		4.2	
	ONE	EP		08	33	48		-0.5	2.89	280			
	CNZ	P		08	33	54		0.3	3.38	212		3.4	
	WEL	IP		08	34	17.9	U	-0.2	5.49	205	4.7		
		S			35	24		0.9					
	GPZ	S		08	36	26		-0.7	8.35	207	5.1		

64/ 139

	H	M	S									
MAY 12	01	57	19.2	38.01S	176.11E	227 KM	SE	1.6	AVG MAG			4.6
	+-		1.1	0.05	0.06	8						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		01	57	49.2	U	-0.3	0.46	281			
		S			58	12.7		-0.2					
	TUA	P		01	57	53		0.1	1.14	134		4.5	4.7
		ES			58	18		-1.1					
	CNZ	(P)		01	57	56.8		3.0	1.26	200		4.2	
	TON	P		01	57	55.5		1.7	1.27	200	3.6		
		S			58	21		0.3					
	GNZ	IP		01	57	57.0	D	0.2	1.63	113		4.9	5.1
		S			58	25		-0.8					
	TNZ	P		01	58	00.9		2.8	1.79	229		4.7	
	ONE	EP		01	58	07		0.3	2.63	327	3.7		
		ES				41		-2.5					
	WEL	P		01	58	16.0		0.3	3.43	197	4.8		
		S				59		-0.6					
	COB	ES		01	59	12		-0.3	4.03	219	4.7		
	KAI	ES		01	59	47		-4.0*	5.76	217	4.9		
	GPZ	EP		01	58	50		-0.8	6.25	204	5.4		
		S		02	00	00		-2.2					

64/ 141

	H	M	S									
MAY 13	13	24	53.7	44.87S	167.37E	33 KM	SE	1.4	AVG MAG			4.1
	+-		1.6	0.06	0.09	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	IP		13	25	09.0	U	-0.6	0.92	169		4.2	4.1
		S				21		-0.4					
	ROX	P		13	25	19		1.5	1.50	114		4.3	
		S				36		0.5					
	GPZ	ES		13	26	34		-1.5	3.97	75	3.9		
	COB	Es		13	27	12		0.4	5.46	48	4.1		

64/ 141

	H	M	S									
MAY 15	01	56	45.6	39.23S	175.27E	33 KM	SE	1.0	AVG MAG			3.3
	+-		0.5	0.04	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TON	P*		01	56	52.8		0.6	0.21	82	2.9		
		S*				57.5		0.6					
	CNZ	P		01	56	52		-0.7	0.22	81			
		E				57							
	TNZ	P*		01	56	58.3		-1.0	0.69	274		3.4	3.5
		S*			57	10		0.9					
	KRP	P*		01	57	09		-0.8	1.33	9		3.3	3.4
		ES*				28		0.4					
		E				31							

64/ 142

	H	M	S									
MAY 16	04	24	26.5	38.51S	175.82E	188 KM	SE	1.7	AVG MAG			4.2
	+-		1.5	0.07	0.06	11						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		04	24	53.1	U	0.2	0.62	339		4.4	3.6
		S			25	11		-2.2					
	TON	E		04	24	55			0.73	197			
	TUA	EP		04	24	57		1.2	1.09	106			
		ES			25	18		-0.5					
	TNZ	EP		04	25	00		2.3	1.31	238		3.6	3.3
		ES			23			1.2					
	GNZ	EP		04	25	03		1.3	1.73	95		4.2	4.5
		E			20								
		IS			28			-0.8					
	WEL	P		04	25	16.0		1.1	2.89	196	4.5		
		S			52			-0.2					
	COB	S		04	26	06		0.6	3.50	222	4.4		
	KAI	ES		04	26	43		-1.8	5.23	219	4.5		
	GPZ	EP		04	25	48		-2.6	5.71	204	4.8		
		S			26	51		-4.9*					

64/ 143

	H	M	S									
MAY 17	07	03	06.0	37.58S	176.80E	307 KM	SE	1.2	AVG MAG			4.7
	+-		0.9	0.05	0.06	6						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		07	03	47.0	U	-0.5	1.06	251		4.4	3.7
		ES			04	20		0.0					
	TUA	P		07	03	49.5	U	0.8	1.25	167		5.0	4.7
		ES			04	20		-1.8					
	GNZ	IP		07	03	50.1	U	0.4	1.43	138		5.2	5.1
		S			04	24		0.3					
	CNZ	P		07	03	53		0.2	1.89	211			
	TNZ	P		07	03	58		0.3	2.48	229		4.5	3.8
		ES			04	41		3.0*					
	ONE	EP		07	03	58		-1.4	2.66	312			
	WEL	P		07	04	13.3		0.1	4.02	202	5.0		
		S			05	06		0.2					
	COB	EP?		07	04	22		1.1	4.71	221	4.9		
		ES			05	17		-2.6					
	GPZ	EP		07	04	47		0.4	6.87	206	5.4		
		S			06	05		-0.5					

64/ 144

	H	M	S									
MAY 19	22	43	52.0	35.10S	178.10W	33 KM	SE	0.7	AVG MAG			4.6
	+-		1.8	0.06	0.15	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	EP		22	45	00		0.3	4.71	220		4.7	4.3
		E				18							
		E				48							
	KRP	P		22	45	14.5		-0.6	5.84	239		4.4	
		I				23							
	ONE	EP		22	45	20		0.3	6.19	262			

	E		32			7.25	234						
TNZ	E	22 45 43				8.34	220	5.2					
WEL	ES	22 47 19			0.0								
													64/ 145
	H M S												
MAY 19	22 55 41.1	35.51S	179.79W	33 KM	SE 8.9			AVG MAG	4.4				
	+- 19.0	1.06	1.93	R									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
GNZ	EP	22 56 32		-1.5	3.58	209		4.2					
KRP	P	22 56 40		-5.4	4.46	236		4.1					
	I	45			4.77	265							
ONE	E	22 56 58						4.4					
TNZ	EP	22 57 12		6.9	5.92	230							
WEL	ES	22 58 40		-0.1	7.18	215	4.9						
													64/ 146
	H M S												
MAY 20	06 06 20.7	35.65S	179.79W	100 KM	SE 1.8			AVG MAG	5.4				
	+- 1.8	0.12	0.16	30									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
GNZ	P	06 07 12		-1.8	3.46	210		5.3					
KRP	P	06 07 25.0		-1.4	4.38	237		5.0					
ONE	P	06 07 31		-0.5	4.76	267							
CNZ	P	06 07 37		0.5	5.13	225							
TNZ	EP	06 07 47		1.0	5.82	231		5.1					
	E	08 00											
WEL	EP	06 08 04		0.9	7.06	216	5.9						
	S	09 24		1.7									
	LQ	10 28											
	LR	11 04											
COB	ES	06 09 47		1.9	7.99	225	5.3						
KAI	ES	06 10 25		-1.2	9.68	222	5.4						
GPZ	E(P)	06 08 44		2.3	9.92	214	5.8						
	S	10 29		-2.8									
ROX	EP	06 09 20		-0.4	12.83	217							
	E	10 05											
	LQ	13 22											
MNW	EP	06 09 34		-0.2	13.89	219							
	E	44											
													64/ 147
	H M S												
MAY 20	06 18 30.2	35.40S	178.92W	223 KM	SE 1.6			AVG MAG	4.9				
	+- 5.6	0.13	0.41	62									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
GNZ	P	06 19 34		-0.2	4.06	216		4.7					
KRP	P	06 19 46.0		-1.3	5.12	239		4.4					
	E	57											
ONE	P	06 19 52		0.0	5.49	264							
TNZ	EP	06 20 07		1.5	6.54	233							
	E	22											
WEL	ES	06 21 47		0.7	7.69	218	5.1						
GPZ	ES	06 22 51		-0.8	10.53	216	5.2						
													64/ 148
	H M S												
MAY 20	12 33 16.3	41.52S	172.91E	102 KM	SE 2.6			AVG MAG	4.6				
	+- 0.8	0.06	0.08	11									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
COB	IP	12 33 32.8	E	0.7	0.45	343	4.7						
	S	43		-1.3									
WEL	IP	12 33 42.6	D	0.4	1.42	81	5.3						
	S	34 01.2		-0.5									
KAI	EP	12 33 45		1.7	1.50	228	4.6						
	S	34 05		1.5									
GPZ	P	12 33 53		1.1	2.18	185	4.8						
	IS	34 19		0.6									
TNZ	IP	12 33 57.0	U	-0.5	2.59	26		4.8	4.8				
	S	34 27		-1.4									
TON	EP	12 34 05		1.1	3.06	42	4.7						

	ES		41		1.1								
CNZ	P	12 34 05			1.0	3.07	42						
KRP	P	12 34 17			-1.4	4.12	30		4.9				
	ES		35 01		-4.8								
TUA	P	12 34 25			5.1	4.23	52						
ROX	EP	12 34 26			-0.8	4.74	212		3.9	4.5			
	S		35 18		-2.9								
GNZ	P	12 34 24			-4.5	4.86	55		4.6	4.8			
	ES		35 15		-9.0*								
MNW	EP	12 34 40			-0.2	5.73	220		4.4	4.4			
	S		35 44		-1.3								
ONE	E(P)	12 34 47			5.2	5.85	12	4.6					
	ES		35 39		-9.2*								
													64/ 149
	H M S												
MAY 20	19 29 21.2	39.26S	175.77E	12 KM	SE 0.9			AVG MAG	3.3				
	+- 0.8	0.07	0.02	R									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
CNZ	IPG	19 29 25.0	D	-0.5	0.18	289							
TON	EPG	19 29 25		-0.6	0.19	287	2.3						
	ISG	28		-0.6									
TNZ	ESG	19 29 59		1.1	1.08	273			3.1				
	E	30 20											
KRP	PG	19 29 49.0		0.5	1.34	352		3.3					
GNZ	EPG	19 29 59		0.1	1.86	71		4.0					
WEL	E	19 31 42			2.17	200	3.3						
GPZ	E	19 32 48			5.02	207	3.9						
													64/ 150
	H M S												
MAY 20	22 23 53.6	35.65S	178.64E	33 KM	SE 4.9			AVG MAG	4.5				
	+- 8.1	0.27	0.70	R									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
GNZ	E	22 23 57			3.03	189		4.1	4.7				
	E	24 04											
	E	49											
KRP	P	22 24 39.0		-4.1	3.37	227		4.5	4.1				
	I	45											
	E	25 39											
ONE	EP	22 24 45		0.3	3.49	267							
CNZ	EP	22 25 00		4.0	4.31	214		4.1					
TON	EP?	22 25 01		4.9	4.32	214	4.4						
	E	26 16											
TNZ	EP	22 24 59		-4.9	4.89	223		4.7	3.9				
	E	25 10											
	E	26 34											
WEL	I	22 25 36			6.39	207	5.1						
	S	26 34		0.1									
	E	27 18											
	ELR	28 00											
COB	ES	22 26 56		4.3	7.14	219	4.8						
GPZ	ES	22 27 38		-4.5	9.26	208	5.2						
													64/ 151
	H M S												
MAY 21	07 14 48.9	34.94S	178.01W	33 KM	SE ND			AVG MAG	4.6				
	ND	ND	ND	ND									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
GNZ	EP	07 15 59		0.0	4.88	220		4.4					
	E	16 09											
KRP	EP	07 16 14		0.0	6.00	238		4.2					
ONE	EP	07 16 18		0.0	6.29	260							
TNZ	E	07 16 40			7.42	233							
WEL	E	07 17 41			8.52	220	5.2						
	E	18 05											
GPZ	E	07 19 11			11.34	217							

64/ 152

	H	M	S									
MAY 21	07	26	19.4	35.73S	179.53W	33 KM	R	SE 1.6		AVG MAG		4.9
	+-		1.6	0.09	0.12							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		PN	07	27	12		1.3	3.50	213		5.1	
			EP*			20		-0.6					
	TUA		EPN	07	27	20		1.8	4.05	220			
	KRP		PN	07	27	24.7	U	0.1	4.52	240		4.9	4.5
			I			30							
			E		28	27							
			E			39							
	ONE		PN	07	27	30		-0.7	4.97	268			
	TNZ		EPN	07	27	44		0.2	5.94	233		5.0	4.0
			E			54							
			ES*		29	20		0.1					
	WEL		E	07	28	15			7.12	217	5.5		
			I(P*)			20		-2.6					
			S		29	19		1.9					
			E		30	02							
			LR		31	00							
	COB		S	07	29	41		0.7	8.09	226	5.0		
			E		30	13							
	KAI		E	07	30	21			9.77	223			
			E			58							
	GPZ		EP	07	28	47		9.3*	9.97	215	5.4		
			ES		30	23		-2.1					

64/ 153

	H	M	S									
MAY 21	11	06	05.2	44.48S	167.62E	33 KM	R	SE 1.9		AVG MAG		4.5
	+-		1.8	0.06	0.09							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW		P*	11	06	29.0		0.1	1.30	180		5.1	4.7
			ES*			47		0.5					
	ROX		P*	11	06	33.9		0.5	1.56	130		4.4	5.0
			S*			53		-1.3					
	KAI		E	11	07	10			3.38	56	4.0		
			S*			51		2.3					
	GPZ		E	11	07	15			3.71	80	4.0		
			ES*			59		0.5					
	COB		E	11	07	25			5.07	50	4.3		
			ESN		08	11		-2.7					

64/ 154

	H	M	S									
MAY 22	00	26	52.8	35.44S	179.89W	69 KM		SE 2.8		AVG MAG		5.2
	+-		2.9	0.19	0.25	56						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		PN	00	27	45		-2.7	3.60	207		5.0	5.3
			I			48							
			I		28	41							
	KRP		PN	00	27	58		-1.2	4.43	235		5.0	4.7
			I		28	11							
			E		29	11							
	WNZ		E	00	28	03			4.52	224			
			E			16							
	ONE		PN	00	28	02		-0.8	4.69	264			
			E			14							
			E			23							
	TNZ		PN	00	28	19		-0.5	5.90	229		4.9	
	WEL		E(P)	00	28	41		3.6	7.19	214	5.6		
			E			46							
			ES		30	00		1.7					
			ELQ			32							
			ELR			58							
	COB		E(P)	00	28	59		9.2*	8.08	224	5.2		
			ES		30	22		1.5					
	KAI		EP?	00	29	17		4.0	9.79	221	5.3		

	E	27						
	ES	31	02	-0.2				
GPZ	E(P)	00 29	17	0.4	10.05	213	5.6	
	ES	31	05	-3.6				
ROX	ELQ	00 34	00		12.95	216		
MNW	P	00 30	07	-2.2	14.00	219		
	E		15					

64/ 155

	H	M	S									
MAY 22	00	31	56.4	35.52S	178.69W	215 KM		SE 0.5		AVG MAG		4.9
	+-		1.6	0.04	0.12	18						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		P	00	33	00		-0.2	4.07	219		4.7	4.4
			E			45							
			E			47							
	ONE		EP	00	33	20		-0.2	5.66	265			
	TNZ		EP	00	33	33		0.5	6.62	234			
	WEL		ES	00	35	13		0.2	7.71	220	5.1		
	KAI		ES	00	36	15		0.1	10.40	225	5.2		
	GPZ		ES	00	36	18		-0.3	10.54	217	5.2		

64/ 156

	H	M	S									
MAY 23	09	53	35.8	37.37S	178.85E	107 KM		SE 3.3		AVG MAG		4.3
	+-		4.5	0.18	0.28	48						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		P	09	54	03		0.8	1.43	207		4.0	4.2
			E			08							
			E			30							
	KRP		P	09	54	18.6		0.0	2.69	257		4.2	3.6
			ES			49		-1.7					
	ONE		EP	09	54	35		-0.6	3.95	292			
	TNZ		EP	09	54	37		1.2	3.96	241		4.1	
	WEL		E	09	55	00			5.03	218	4.8		
	COB		ES	09	56	16		3.8	6.03	230	4.3		
	GPZ		ES	09	56	54		-3.6	7.89	215	5.1		

64/ 157

	H	M	S									
MAY 23	20	08	55.7	49.43S	163.99E	64 KM		SE 1.1		AVG MAG		4.9
	+-		1.6	0.19	0.26	35						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW		P	20	10	02		0.3	4.40	35		5.0	4.7
			S			52		-0.1					
	ROX		EP	20	10	14		-0.9	5.36	44		4.7	4.8
			ES		11	17		1.0					
	GPZ		EP	20	10	55		-0.4	8.27	49	5.1		
			E		12	28							
	KAI		ES	20	12	36		-0.8	8.62	40	4.9		
	COB		EP	20	11	25		1.0	10.37	40			
			ELQ		15	00							
	WEL		ELQ	20	15	00			11.12	47			

64/ 158

	H	M	S									
MAY 24	22	22	27.1	37.08S	177.44E	208 KM		SE 2.6		AVG MAG		5.8
	+-		2.0	0.09	0.12	17						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ		IP	22	23	00.0	U	-3.0	1.63	164		6.0	
	KRP		P	22	23	06.1		2.2	1.73	240		5.4	
	WNZ		P	22	23	05.7		0.4	1.88	214		5.5	
	CNZ		P	22	23	13.4		0.4	2.59	215			
	TON		EP	22	23	13.5		0.4	2.60	215	5.5		
			I			19							
			S			50		1.3					
	ONE		P	22	23	14.0		-1.4	2.80	297	5.0		
			ES			51		-1.8					
	TNZ		P	22	23	23.1		3.1	3.20	228		5.3	
			I			26							
	WEL		P	22	23	38.0		-0.4	4.69	205	6.4		

	S	24 33	-0.7				
COB	EP	22 23 47	-0.8	5.43	221	5.8	
	E	24 04					
	S	51.5	1.0				
KAI	E(P)	22 24 15	4.9	7.15	219	6.0	
	ES	25 29	-1.5				
GPZ	EP	22 24 10	-5.3	7.55	207	6.7	
	E	16					
	S	25 32	-7.9*				
ROX	EP	22 24 54	2.2	10.38	214		
	E	56					
	S	26 42	-3.3				
MNW	EP	22 25 06	1.2	11.39	217		
	S	27 10	1.2				

64/ 15

	H M S					
MAY 25	17 40 16.0	37.19S	177.68E	33 KM	SE 1.7	AVG MAG 4.8
	+- 1.2	0.05	0.06	R		

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP*	17 40 43.2	D	0.5	1.48	170		5.2	5.3
	E	54							
	ES*	41 01		-1.6					
KRP	IP*	17 40 50.8	D	1.6	1.85	246		4.3	4.5
	S*	41 15		1.2					
					1.90	220			
WNZ	E	17 40 57						4.2	
CNZ	IP*	17 41 00.0	D	-2.2	2.62	219			
TON	ES*	17 41 35		-1.9	2.62	219	4.2		
ONE	EP*	17 41 09		-0.1	3.02	297	4.1		
	ES*	47		-1.8					
TNZ	P*	17 41 12		-1.4	3.28	232			
WEL	EPN	17 41 24		0.7	4.67	208	5.2		
	SN	42 16		1.0					
	E	37							
COB	ESN	17 42 39		4.8*	5.47	223	4.9		
KAI	E	17 42 03			7.19	220	5.1		
	ES	43 17		1.7					
GPZ	EP	17 42 02		-0.0	7.55	209	5.4		
	S	43 22		-1.9					
MNW	EP	17 42 56		2.7	11.42	218			
	ES	44 57		1.4					

64/ 1

	H M S					
MAY 27	09 44 48.7	41.23S	173.41E	90 KM	SE 1.9	AVG MAG 4.8
	+- 0.9	0.06	0.05	13		

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	09 45 04		0.0	0.53	285	4.4		
	S	14.5		-1.1					
WEL	P	09 45 09.5		0.4	1.03	94	3.7		
	S	25		0.6					
KAI	EP	09 45 24		2.8	1.98	228	3.6		
	S	43		-2.1					
TNZ	P	09 45 25		1.2	2.17	20		3.8	4.1
	S	52		2.2					
TON	EP?	09 45 31		1.2	2.60	40	3.8		
	E	46 02							
	E	25							
CNZ	P	09 45 29		-0.9	2.60	40		3.9	
	E	37							
KRP	P	09 45 44		-0.7	3.68	27		4.0	4.1
	S	46 26		-1.2					
GNZ	E	09 46 26			4.38	55		4.0	4.1
	ES	42		-2.6					
ONE	ES	09 47 07		-5.0*	5.49	8	4.3		

64/ 1

	H M S					
MAY 29	01 07 08.9	35.51S	178.91E	236 KM	SE 2.1	AVG MAG 4.8
	+- 2.2	0.10	0.12	16		

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P	01 08 04.0		0.6	3.21	192		5.1	5.5
	(S)	45		-0.6					
KRP	IP	01 08 09.9	D	1.7	3.63	227		4.8	
ONE	P	01 08 08		-1.3	3.71	265	4.4		
	ES	55		-1.1					
CNZ	P	01 08 20		0.6	4.55	215		4.1	4.0
	E	09 16							
TON	EP	01 08 20		0.5	4.56	215	4.4		
	ES	09 17		2.6					
TNZ	EP	01 08 28		1.3	5.14	223		4.1	
WEL	EP	01 08 43		-2.3	6.62	208	5.3		
	ES	09 59		-1.7					
COB	ES	01 10 20		1.8	7.39	219	4.9		
KAI	ES	01 10 56		-1.7	9.11	218	5.0		
GPZ	ES	01 11 03		-3.3	9.49	209	5.4		
MNW	ES	01 12 37		2.8	13.35	216			

64/ 162

	H M S					
MAY 30	17 48 08.2	37.20S	178.19E	33 KM	SE 2.0	AVG MAG 4.1
	+- 1.5	0.05	0.08	R		

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EPN	17 48 31		-0.2	1.45	185		4.3	4.2
	E	39							
	ES*	57		3.2					
TUA	EPN	17 48 36		-0.1	1.80	207		3.8	4.2
	ES*	49 03		-1.3					
KRP	IPN	17 48 42.0	U	0.1	2.23	250		4.2	3.7
	ESN	49 06		-1.5					
CNZ	IPN	17 48 52.0	U	1.0	2.88	225		3.9	3.6
	E	49 30							
TON	EPN	17 48 52		0.9	2.89	225	3.6		
	ESN	49 27		3.3					
ONE	PN	17 48 59		1.0	3.39	294	3.7		
	ESN	49 37		1.0					
WEL	EP	17 49 16		-2.1	4.87	212	4.7		
	S	50 09		-2.8					
COB	ES	17 50 33		0.0	5.75	226	4.5		
KAI	ES	17 51 11		-2.6	7.44	222	4.7		

64/ 163

	H M S					
JUN 01	03 46 23.6	40.44S	178.73E	12 KM	SE 1.7	AVG MAG 4.1
	+- 1.3	0.04	0.06	R		

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EP	03 46 53.5		-1.3	1.88	343		4.3	4.4
	EPG	47 01		-0.6					
	ES	13		-4.8*					
	E(SG)	26		-0.9					
TUA	EP	03 46 57		0.0	2.04	323		4.2	4.2
	EPG	47 05		0.2					
	E	14							
	E(S)	20		-1.6					
TON	E(P*)	03 47 10.5		-1.3	2.75	296	3.9		
	EPG	18		-1.3					
	E(S)	41		1.6					
WEL	EP	03 47 11		-0.8	3.12	253	4.3		
	ES	46		-2.1					
	E	54							
KRP	EP	03 47 19		1.7	3.53	314			3.5
	EPG	37		2.0					
	E(S)	59		1.1					
TNZ	EP	03 47 21		3.1	3.58	289			3.6
	E	55							
	E	48 07							
	ESG	23		-1.2					
COB	ES	03 48 26		2.2	4.60	260	4.4		
GPZ	ES	03 48 45		-2.2	5.58	232	4.3		

		E		51									
	KAI	ES		03 48 56		1.5	5.88	247	4.4				
													64/ 16
	H	M	S										
JUN 01	07	06	17.1	37.46S	177.27E	12 KM	SE	3.0	AVG MAG		4.8		
	+-		2.2	0.11	0.08	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	P*		07	06	37.2	D	-3.7	1.33	154		4.1	4.3
		E				51							
		S				58.5		-0.4					
		ES*			07	01		2.3					
	TUA	EP*		07	06	41		-0.3	1.35	184		3.8	3.9
		EPG				45		0.5					
		ESG			07	06		3.2					
		E				16							
	KRP	P		07	06	40.7	D	-2.0	1.45	251		3.5	3.1
		ES			07	06		4.3					
		E				19							
	CNZ	EP		07	06	53		0.2	2.20	217		3.7	3.5
		EP*			07	01		5.1					
		E				31							
	TNZ	P		07	07	02.3		0.5	2.85	232		3.9	3.6
		E				46							
	WEL	EPN		07	07	25		4.0	4.29	206	4.5		
		EP*				33		1.4					
		ES			08	07		-2.8					
		E				11							
		ES*				25		-2.6					
	COB	ES		07	08	28		-0.1	5.05	223	4.3		
	KAI	EP?		07	07	50		-4.4	6.77	220	4.6		
		S			09	06.5		-2.7					
		E				13							
	GPZ	ES		07	09	16		-2.4	7.15	208	4.7		
													64/ 16
	H	M	S										
JUN 01	14	19	00.4	44.83S	167.66E	33 KM	SE	1.2	AVG MAG		3.8		
	+-		1.2	0.05	0.08	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	P		14	19	16.5	D	-0.2	0.95	182		3.7	4.1
		S				28.6		-0.1					
	ROX	EP?		14	19	22		0.0	1.33	119		4.0	3.5
		I				22.4							
		S				38.3		0.2					
	KAI	E(S)		14	20	34		1.5	3.56	51	3.5		
		E				38							
		E(S*)				48		-1.4					
		E				51							
													64/ 16
	H	M	S										
JUN 02	07	21	06.7	37.76S	176.29E	325 KM	SE	1.3	AVG MAG		4.8		
	+-		2.3	0.10	0.14	20							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	E(P)		07	21	49		0.4	0.62	255		3.3	
	GNZ	EP		07	21	53.5		0.1	1.62	123		4.0	4.8
		E			22	25							
		E(S)				29		-0.9					
	WEL	EP		07	22	12		0.3	3.71	198	4.5		
		ES			23	04		1.4					
	KAI	ES		07	23	48		-1.5	6.05	217	4.3		
	GPZ	ES		07	24	00		0.1	6.54	204	4.9		
													64/ 1
	H	M	S										
JUN 02	19	41	38.7	44.69S	167.86E	12 KM	SE	2.4	AVG MAG		4.4		
	+-		1.4	0.05	0.08	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	P		19	41	59.5		-0.2	1.11	189		4.4	4.8
		E(S)			42	17		1.7					

	ROX	P		19	42	01.8		-0.5	1.30	128		4.1	4.5
		I				02.7							
		ES				19		-0.7					
		ESG				22		-0.5					
	KAI	E(P*)		19	42	39		1.7	3.36	51	4.3		
		E				43							
		E(S)			43	05		-3.9					
		E				11							
		E(S*)				23		1.7					
	GPZ	E		19	42	35			3.58	76			
		E				40							
		EP*?				42		1.0					
		E(PG)				48		-3.1					
		E(S)			43	15		0.8					
		E(S*)				30		2.1					
	COB	ES		19	43	47		-3.2	5.07	47	4.3		
		E(S*)			44	16		3.2					
													64/ 168
	H	M	S										
JUN 03	01	24	20.1	40.11S	175.05E	12 KM	SE	0.6	AVG MAG		3.7		
	+-		0.2	0.01	0.02	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TON								0.98	23	3.4		
	CNZ	P*		01	24	38		-0.0	0.98	23			
		E(S*)				51		-0.3					
	TNZ	EP*		01	24	39		-0.3	1.06	330		3.5	3.9
		E(PG)				43		1.4					
		S*				53.5		0.0					
	WEL	P*		01	24	42	D	0.3	1.20	190	3.8		
		ES*				58		0.2					
	COB	ES		01	25	18		0.3	2.02	240	3.6		
		ES*				22		-0.5					
	KRP	P*		01	24	59.5	D	0.5	2.21	10		3.6	3.9
		ES*			25	28		-0.2					
		E(SG)				34		-0.7					
	KAI	E		01	25	49			3.66	227	3.8		
		ES*			26	11		-0.7					
	GPZ	ES?		01	26	04		-2.1*	4.01	206	3.6		
													64/ 169
	H	M	S										
JUN 03	10	08	53.9	41.18S	175.40E	12 KM	SE	1.4	AVG MAG		4.4		
	+-		0.7	0.04	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	P		10	09	08	D	0.5	0.49	257	4.2		
		ES				15		-2.4					
	COB	EP		10	09	29		1.9	2.02	272	4.5		
		S				52.5		0.9					
	TNZ	EP		10	09	29.5		0.7	2.14	338			4.7
		EPG				36		-1.3					
		ES				54		-0.5					
	GNZ	E(P)		10	09	48		4.3*	3.24	39		4.1	4.1
		E			10	07							
		E(S)				20		-1.1					
		E			11	12							
	GPZ	E		10	09	55			3.24	218	4.4		
		E(S)			10	21		-0.2					
		E				23							
	KRP	EP		10	09	45		1.1	3.25	2		4.5	4.9
		E				47							
		EP*				51		0.3					
		EPG				58		-1.8					
		ES*			10	35		1.6					
	KAI	E		10	09	55			3.27	244	4.3		
		E			10	08							
		ES				23		0.9					
		ESG				43		-1.3					
	MNW	ES		10	11	59		0.5	7.29	228			

		E		12 03										
														64/ 171
	H	M	S											
JUN 03	19	40	45.4	49.34S	163.67E	33 KM	SE	0.1		AVG MAG	4.2			
	+-		0.3	0.03	0.04	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	MNW		EP	19	41	49.8		0.1	4.45	38			4.2	4.8
			E			51								
			ES		42	39		-0.0						
			E			41								
	ROX		EP?	19	42	03		-0.1	5.44	47			4.3	4.1
			ES		43	03		0.0						
														64/ 172
	H	M	S											
JUN 04	23	05	12.1	41.30S	175.10E	12 KM	SE	2.5		AVG MAG	3.3			
	+-		1.5	0.05	0.09	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	WEL		IPG	23	05	18.7		1.0	0.26	273	3.6			
			SG			22		0.5						
	COB		ES	23	06	05		0.3	1.80	276	3.1			
	TON		I(SG)	23	06	22		-1.7	2.12	9	3.2			
	CNZ		I(SG)	23	06	22		-1.9	2.13	9				3.5
	TNZ		E(PG)	23	05	56		-0.4	2.19	345				3.3
			E(SG)		06	23		-2.9						
			E			29								
			E			38								
	GPZ		ES	23	06	32		-1.7	3.00	216	3.2			
			E(S*)			42		-2.1						
	KAI		E	23	06	10.5			3.02	245	3.2			
			E(S*)			46		1.5						
			E		07	01								
	KRP		EP*	23	06	16		4.8	3.39	6			3.4	3.3
			ES*			58		2.4						
														64/ 173
	H	M	S											
JUN 04	23	50	14.9	39.36S	176.02E	33 KM	SE	1.0		AVG MAG	3.3			
	+-		0.7	0.03	0.04	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	CNZ		IP	23	50	23		-0.8	0.40	294				
	TON		P	23	50	23.5		-0.4	0.41	293	3.1			
			ES			29		-1.4						
	TNZ		E(P)	23	50	36		0.3	1.28	277			3.3	3.4
			E(S)			52		0.6						
			ES*			56		0.3						
	KRP		EP*	23	50	43		1.3	1.49	345			3.7	3.2
			E		51	08								
	WEL		EP	23	50	47		-0.6	2.15	206	3.2			
			E(S)		51	13		0.7						
														64/ 174
	H	M	S											
JUN 05	05	12	51.1	37.91S	179.45E	113 KM	SE	2.2		AVG MAG	4.4			
	+-		2.1	0.07	0.12	12								
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	GNZ		P	05	13	15.5	D	-1.3	1.34	236			4.6	5.1
			E			22								
			E			28								
			S			34.5		-1.7						
			E			41								
	TUA		P	05	13	25		0.1	2.02	243			4.3	4.5
			E			28								
			ES			52		1.7						
			E			54								
			E		14	01								
	KRP		P	05	13	39		-0.4	3.09	269			3.9	3.8
			E			48								
			ES		14	16		0.1						
	CNZ		E	05	13	45			3.32	246			4.0	3.9

		E		57										
		E		14	28.5									
	TON	E(P)	05	13	44		1.5	3.33	246					
		E			48									
		E			54									
		E		14	00									
		ES			24		2.4							
		E			29									
		E			44									
	TNZ	EP	05	13	56.5		2.5	4.17	251			4.0	3.7	
		E		14	24									
		E			38									
		E(S)			49		6.9*							
		E			55									
	ONE	E(P)	05	14	02		2.2	4.60	296	4.1				
		ES?			49		-3.5							
	WEL	P	05	14	03.0	D	-1.4	4.94	226	5.1				
		ES		15	01		0.1							
	COB	E(S)	05	15	30		1.3	6.08	236	4.9				
		E			33									
	KAI	ES	05	16	06		-1.7	7.69	231	5.0				
	GPZ	E	05	14	40			7.74	220	5.3				
		E			43									
		E(S)		16	05		-4.2							
		E			07									
	ROX	ES	05	17	22		1.8	10.70	222					
	MNW	ES	05	17	47		0.4	11.81	225					
		E			54									
														64/ 174
	H	M	S											
JUN 05	12	29	57.1	38.59S	179.85W	132 KM	SE	0.8		AVG MAG	4.2			
	+-		1.6	0.16	0.13	27								
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	GNZ		EP	12	30	27		-0.7	1.67	268				4.1
			E			44								
			E			49								
	TUA		EP	12	30	37		0.8	2.36	264				4.1
			ES			31	06	0.1						
	TON		E	12	31	57			3.65	259	4.0			
	TNZ		E	12	32	00			4.54	261				
	WEL		E	12	31	09			4.94	235	4.2			
			ES			32	07	0.1						
	GPZ		E(S)	12	33	12		0.2	7.62	226	4.5			
	KAI		ES	12	33	14		-0.4	7.73	237	4.5			
														64/ 175
	H	M	S											
JUN 05	12	43	37.2	37.54S	177.68E	33 KM	SE	0.6		AVG MAG	4.0			
	+-		1.3	0.09	0.09	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	GNZ		EP	12	43	56		-0.0	1.14	166			4.5	
			E		44	01								
			E			09								
	TUA		EP	12	43	59		0.3	1.33	198			3.8	3.7
			EP*		44	01		-0.4						
			ES			15		0.1						
	WEL		E	12	45	43			4.37	210				
														64/ 176
	H	M	S											
JUN 05	23	04	05.6	39.12S	175.17E	223 KM	SE	1.3		AVG MAG	4.1			
	+-		1.3	0.08	0.07	8								
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	TON		E(P)	23	04	36.5		1.5	0.30	105	3.4			
			S			57.5		-0.2						
	CNZ		IP	23	04	35.5	D	0.5	0.30	105				
			E			57								
	TNZ		E(S)	23	04	59		-0.5	0.62	264				3.3
	WEL		P	23	04	49.5		1.5	2.18	188	4.5			

		E		05 18.5							
		ES		22		1.2					
		E		38							
	GNZ	P	23 04 49		D	-0.0	2.28	79		4.7	4.2
		ES		05 21		-1.6					
		E		24							
		E		32							
	KAI	E	23 05 16				4.44	219	4.1		
		ES		06 06		-1.5					
	GPZ	E(P)	23 05 20.5			-0.0	4.94	202	4.4		
		ES		06 18		-0.8					

64/ 177

	H M S										
JUN 06	13 05 54.8	43.87S	170.53E	33 KM	SE	2.9	AVG MAG	3.3			
	+- 1.2	0.10	0.11	R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	KAI EP	13 06 19			0.5	1.49	26	3.3			
	ES		37		0.7						
	E		39								
	GPZ EP	13 06 19			-0.3	1.55	84	3.7			
	S		37.5		-0.2						
	E		49								3.8
	MNW EP?	13 06 41			4.3	2.82	226				
	E		53								
	E(S*)		07 18		-3.4						
	COB E(S*)	13 07 32			-1.6	3.23	31				
	E		41								

64/ 178

	H M S										
JUN 07	20 41 57.7	44.23S	170.93E	33 KM	SE	1.7	AVG MAG	3.3			
	+- 0.6	0.05	0.05	R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	GPZ E(P*)	20 42 22			-0.2	1.35	67	3.4			
	E(S*)		41		0.6						3.7
	ROX S	20 42 45.5			1.3	1.70	222				
	S*		48.5		-2.2						
	KAI EP	20 42 25			0.2	1.74	12	3.0			
	EP*		29		0.1						
	ES		46		0.8						
	ES*		51		-1.0						
	MNW EP*	20 42 45			-2.2	2.82	235		3.4	3.0	
	ES*		43 27		2.7						

64/ 179

	H M S										
JUN 08	14 10 42.3	38.27S	176.34E	188 KM	SE	2.4	AVG MAG	3.9			
	+- 2.2	0.11	0.08	14							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP	14 11 08		D	-1.2	0.72	299		4.1	3.1	
	E(S)		26		-4.0						
	TUA EP	14 11 11			1.2	0.83	130		3.9	4.0	
	E		25								
	ES		30		-1.1						
	E		34								
	CNZ IP	14 11 13		U	1.2	1.11	214		3.7	3.1	
	ES		36		1.3						
	GNZ P	14 11 15			1.0	1.37	106		4.0	4.2	
	E		31								
	E		34								
	ES		38		-0.6						
	E		58								
	TNZ E(P)	14 11 21			3.0	1.78	239		3.4	3.1	
	E(S)		49		3.5						
	WEL P	14 11 35.5			0.7	3.24	201	4.3			
	ES		12 16		0.6						
	COB ES	14 12 31			-0.2	3.95	224	4.3			
	KAI ES	14 13 09			-1.8	5.67	220	4.4			
	GPZ ES	14 13 17			-3.6	6.09	206	4.5			

64/ 180

	H M S										
JUN 08	14 52 39.3	46.02S	168.07E	12 KM	SE	1.0	AVG MAG	3.7			
	+- 1.3	0.08	0.02	R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW PG	14 52 47.5		U	0.0	0.39	307				
	E(SG)		53		0.0						
	ROX P	14 53 00		D	0.7	1.03	59		3.5	3.7	
	S		13.5		-0.5						
	ESG		15		0.9						
	GPZ EPG	14 53 59			-1.1	4.00	56	3.9			
	E		54 38								
	ES*		42		0.9						
	ESG		53		-1.0						
	KAI E	14 54 34				4.23	36				
	E		53								

64/ 181

	H M S										
JUN 09	07 31 45.3	41.56S	172.25E	12 KM	SE	2.4	AVG MAG	4.4			
	+- 0.5	0.04	0.06	R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	COB IP*	07 31 55.0		E	-1.5	0.59	38	4.5			
	S*		32 03.8		-1.0						
	KAI IP*	07 32 04.1		SW	-2.0	1.15	213	4.3			
	ES*		19		-2.6						
	WEL P	07 32 18		U	1.0	1.91	83	4.4			
	S*		45		0.7						
	GPZ EP	07 32 18.5			-1.8	2.15	172	4.2			
	EP*		22		-1.3						
	E		25								
	E		34								
	E(S)		48		1.8						
	ES*		52		0.3						
	TNZ E(P)	07 32 31			0.7	2.87	35		4.6	4.7	
	E(PG)		40		-3.4						
	ES*		33 14		0.7						
	ESG		24		1.8						
	CNZ (P)	07 32 39			1.1	3.45	48		4.7	4.6	
	E		42								
	EP*		47		1.6						
	ES		33 18		0.4						
	E(S*)		37		6.5*						
	KRP EP	07 32 52			0.9	4.42	36		4.5	4.6	
	E(P*)		33 01		-1.1						
	E(PG)		06		-8.8*						
	ES*		34 02		2.1						
	E(SG)		19		4.6						
	ROX EP?	07 32 48			-3.6	4.46	208		4.4	4.1	
	E		56								
	E(P*)		33 06		3.3						
	ES		44		1.9						
	E(S*)		34 04		3.0						
	E		24								
	TUA E(P*)	07 33 03			-2.9	4.65	55		4.4	4.3	
	E		11								
	E(SG)		34 18		-4.0						
	GNZ E	07 33 27				5.29	59			4.2	
	E		34								
	E		34 14								
	MNW EP	07 33 01			-3.1	5.39	217		4.2	3.9	
	E		03.5								
	E		07								
	E(P*)		23		4.3						
	ES		34 04		-0.6						
	ONE E	07 33 18				6.00	17	4.6			
	E		27								
	E(S)		34 18		-1.2						

		E		23								
		E		35 27								
		E		36 03								
												64/ 183
	H	M	S									
JUN 10	17	27	17.0	40.93S	177.10E	12 KM	SE	2.3		AVG MAG		3.9
	+-		1.0	0.04	0.05	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	EP		17	27 45		-2.2	1.80	258	3.4		
		EPG			54		0.5					
		E(S)			28 06		-3.5					
		ES*			13		0.2					
		ESG			21		3.2					
		E			27							
		E			30							
	CNZ	P		17	27 51		-0.3	2.10	325		4.2	3.9
		EP*			56		2.0					
		E(PG)			28 03		3.5					
		ES*			23		1.2					
	TON	E(PG)		17	27 59		-0.6	2.10	325	3.7		
		E			28 04							
		E			12							
		E(S)			16		-0.6					
		ESG			28		0.1					
	TUA	EP		17	27 51		-0.5	2.12	1		4.0	4.2
		EPG			59		-1.0					
		E			28 05							
		ES			13		-4.1					
	GNZ	EP		17	27 55		-0.2	2.39	18		4.0	4.3
		EP*			28 03		4.0					
		EPG			08		2.6					
		E			16							
		ES			22		-1.7					
	TNZ	EP		17	28 00		0.1	2.72	309		4.1	3.7
		EP*			06		1.3					
		E			38							
		E(SG)			48		-0.8					
	KRP	EP		17	28 05		-1.8	3.24	338		3.9	3.6
		EP*			16		2.5					
		E(PG)			24		1.5					
		E(S)			42		-2.2					
		E(S*)			54		-2.0					
	COB	E(PG)		17	28 28		4.0	3.31	266	3.8		
		ES			43		-3.0					
		ES*			59		0.9					
		E			29 00							
	GPZ	ES		17	29 10		-0.1	4.31	229	4.0		
	KAI	ES		17	29 13		-3.0	4.55	248	3.7		
												64/ 184
	H	M	S									
JUN 11	10	48	33.6	40.82S	177.11E	12 KM	SE	2.3		AVG MAG		4.1
	+-		1.0	0.04	0.05	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	E(P)		10	49 04		-0.3	1.83	255	3.8		
		PG			10.5		-0.2					
		E			14							
		ES			24		-2.8					
		E(S*)			30		-0.3					
		E(SG)			38		2.6					
		E			47							
	TUA	EP		10	49 08		1.3	2.01	1		4.0	4.2
		E			20							
		E			27							
		ES			30		-1.1					
	GNZ	EP		10	49 11.5		1.0	2.29	18		4.1	4.2
		EPG			19		-1.0					
		E(S)			37		-0.8					

		E(S*)		43		-1.1						
	TNZ	EP	10	49 17		1.3	2.66	307		4.2	3.9	
		EP*		24		3.8						
		E		36								
		E		53								
		E(S*)		57		1.8						
		ESG		50 01		-2.3						
	KRP	EP	10	49 22.5		0.4	3.14	337		3.9	3.7	
		P*		32.5		4.0						
		EPG		36		-1.2						
		E		49								
		E(S)		50 00		1.5						
	COB	EPN	10	49 23		-1.6	3.32	264	4.1			
		EPG?		38		-2.9						
		ES		50 00		-3.0						
		E		10								
		ES*		16		0.8						
	GPZ	ES	10	50 25		-3.5	4.38	228	3.7			
		E(S*)		50		3.1						
		E(SG)		51 05		3.7						
	KAI	EPG	10	50 07		0.4	4.59	246	4.1			
		ES		30		-3.7						
												64/ 184
	H	M	S									
JUN 12	08	47	30.7	40.01S	178.44E	33 KM	SE	2.3		AVG MAG		4.2
	+-		2.1	0.05	0.12	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	I(P*)		08	47 55	U	-1.1	1.40	346		4.4	4.4
		E			48 06							
		E			09							
		E(S*)			15		0.1					
		E			21							
	TUA	E(P*)		08	47 58		-0.8	1.56	320			
		I			59							
		E			48 07							
		E(S)			14		0.1					
		E(S*)			19		-0.7					
		E			49							
	KRP	EP		08	48 19		2.9	3.08	312		3.7	3.6
		E(S)			55		4.3					
		ES*			49 02		-3.0					
	WEL	EP		08	48 15	D	-1.1	3.08	244	4.4		
		E			18							
		E			48							
		S			50.5		-0.2					
		ES*			55		-10.0*					
	COB	E(P*)		08	48 45		-3.7	4.48	254	4.4		
		ES			49 27		2.0					
		E			36							
	KAI	E(P*)		08	49 14		1.7	5.87	242	4.6		
		E			20							
		ES			58		-0.4					
		E			50 09							
												64/ 185
	H	M	S									
JUN 12	17	57	50.9	40.05S	178.09E	12 KM	SE	2.9		AVG MAG		4.3
	+-		2.1	0.06	0.10	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	I(P*)		17	58 13	U	-3.1	1.41	358		4.6	4.6
		E			21							
		E			26							
		E(S*)			34		-0.9					
		E			48							
		E			59 00							
	TUA	E(P*)		17	58 16	U	-0.7	1.44	329		4.3	4.3
		E			25							
		E(S)			33		-2.4					

	E(S*)		38	2.1					
	E		47						
	E		53						
CNZ	EP*?	17 58	29	0.3	2.14	293			
TON	EP*	17 58	30	1.2	2.15	292	3.6		
	E		39						
	E(S*)	59	00	2.8					
	E		04.5						
	E		15						
WEL	EP	17 58	33	-2.1	2.82	243	4.2		
	E		36						
	E		42						
	E		50						
	S	59	08.5	0.2					
	S*		13.5	-3.7					
	ESG		22	-3.9					
KRP	EP	17 58	37.5	1.1	2.91	316			
	E	59	02						
	ES*		20	-0.1					
TNZ	E(P)	17 58	40.5	2.9	3.00	286			
	E		49						
	E	59	08.5						
	E(S*)		19	-3.7					
	E		25.5						
	E		43						
COB	E	17 58	54		4.21	254	4.3		
	E		58						
	ES	59	45	3.3					
KAI	E(P*)	17 59	34	6.0	5.61	242	4.5		
	ES	18 00	16	0.6					
MNW	E(S)	18 01	58	8.3*	9.58	230			

64/ 184

H M S						
JUN 14	00 13 58.1	41.36S	172.32E	12 KM	SE 1.7	AVG MAG 3.5
	+- 0.6	0.03	0.06	R		

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IPG	00 14 05.5	E	-1.2	0.42	48	3.5		
	SG	11.5		-1.0					
KAI	E(PG)	00 14 26		0.6	1.35	210	3.3		
	E	32							
	ES	40		-0.3					
	ESG	43		-0.6					
WEL	P	00 14 30		1.2	1.84	88	3.4		
	ES	54		2.5					
GPZ	E(PG)	00 14 43		-2.5	2.34	174	2.8		
	ES	15 05		1.5					
	E(SG)	16		-1.0					
TNZ	EP*	00 14 45		-0.1	2.69	37		3.4	3.6
	ES*	15 23		2.6					
	E(SG)	29		0.4					
TON	E	00 14 52			3.27	50	3.8		
	EPG	15 03		-1.3					
	E	44							
CNZ	EP	00 14 50.5		2.1	3.28	50		4.0	3.8
	EP*	54		-1.3					
	E(PG)	58		-6.4*					
	E(SG)	15 48		-0.6					
	E	54							
KRP	EP	00 15 04		2.7	4.24	37		3.5	3.4
	EP*	12		0.3					
	ES*	16 06		-1.1					
	ESG	18		-2.9					

64/ 187

H M S						
JUN 14	00 47 14.4	40.83S	174.53E	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
WEL	PG	00 47 26.4	US	1.8	0.49	159	3.7		
	SG	34.8		3.4					
COB	P*	00 47 39.5	E	0.3	1.38	259	3.7		
	EP	39		-0.2					
	S*	58.5		0.8					
TNZ	P*	00 47 45	D	1.4	1.64	356		3.9	3.7
	ES*	48 08		2.5					
	E(SG)	11		1.0					
TON	E(P*)	00 47 47		0.7	1.80	26	3.6		
	ES	48 08		1.1					
CNZ	P	00 47 45		0.3	1.80	26		2.6	4.1
	EPG	52		1.0					
	E	48 00							
	ES	08		1.0					
TUA	EP*	00 48 07		2.6	2.85	46		3.6	3.8
	E(PG)	13		0.8					
	E	23							
	ES	32		-0.7					
	E(SG)	51		0.3					
KAI	EP	00 47 58		-1.6	2.89	233	3.7		
	ES	48 31		-2.5					
KRP	EP	00 48 01		0.0	3.00	15		3.8	3.5
	E	12							
	E(S)	34		-2.0					
	E	45							
GPZ	EP*	00 48 11		0.9	3.19	205	4.1		
	ES	32		-8.5*					
GNZ	EP?	00 48 04		-3.3	3.47	52		4.0	4.2
	E	39.5							
	ES	44		-3.2					
	ES*	56		-4.2					
MNW	E(S)	00 50 11		-2.5	7.06	223			

64/ 188

H M S						
JUN 15	01 40 05.2	40.28S	178.75E	33 KM	SE 1.4	AVG MAG 4.5
	+- 1.1	0.03	0.06	R		

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	01 40 31.2	U	-1.0	1.73	341		5.0	4.9
	E	44							
	ES	50		-2.4					
	E	41 08							
TUA	EP	01 40 35	U	0.2	1.92	319			
	E	44							
	ES	57		-0.1					
	ES*	41 04		-0.9					
CNZ	P	01 40 47.0	U	1.6	2.69	293		4.5	4.4
	E	41 01							
	E	21							
	E	23							
TON	EP	01 40 47		1.5	2.70	292	4.1		
	E	48							
	E	57							
	ES	41 18		1.9					
WEL	EP?	01 40 51		-1.2	3.19	250			
	E	52							
	ES	41 27		-1.0					
KRP	EP?	01 40 55		-0.5	3.43	312		4.0	3.9
	E	57							
	E	41 20							
	E	41							
TNZ	E(P)	01 40 59		2.0	3.54	287		4.4	4.1
	E	41 01							
	EP*	08		0.9					
	E(S)	37		0.3					
COB	EP	01 41 13		0.9	4.64	258	4.6		
	ES	42 04		0.6					

	GPZ	EP	01 41 27		0.9	5.68	231	5.0				
		E	32									
		ES	42 26		-2.5							
	KAI	E	01 41 34			5.96	245	4.8				
		ES	42 34		-1.1							
		E	43									
	MNW	E(S)	01 44 15		7.6*	9.83	232					
												64/ 189
	H M S				12 KM	SE 1.0		AVG MAG 3.9				
JUN 15	06 16 28.4		40.09S	174.79E	R							
	+- 0.2		0.02	0.02								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	TNZ	P	06 16 48		0.5	0.96	341					
		E(S)	17 01		-0.6							
		E	03									
	TON	EP	06 16 48.5		-0.3	1.06	33	3.5				
		EPG	50		0.1							
		E	54									
		ES	17 03		-1.0							
	CNZ	P	06 16 48.7		-0.2	1.07	34					
		P*	49.5		1.8							
		ESG	17 05		0.4							
	WEL	EP	06 16 51		0.4	1.19	181	3.6				
		ES	17 05		-2.0							
	COB	EP	06 16 59.5		0.2	1.85	237	3.7				
		ES	17 22		-0.0							
	TUA	E(P*)	06 17 07		-0.7	2.24	56			4.3	4.1	
		E	08.5									
		ES*	38		0.8							
		ESG	45		1.2							
	KRP	EP	06 17 04		-0.5	2.24	15			3.9	4.1	
		PG	12.5		-1.3							
		E(S)	31		-0.4							
		E	44									
	GNZ	E(P)	06 17 13.5		-0.1	2.90	61			4.1	4.0	
		EP*?	20		1.0							
		EPG	28		1.0							
		ES	44		-3.7*							
		E(SG)	18 04		-2.0							
	KAI	EP	06 17 23		1.1	3.52	225	3.9				
		E(S)	59		-3.4*							
		E	18 08									
	GPZ	EP	06 17 28		0.5	3.94	203	4.3				
		EP*	37		0.2							
		E	18 06									
												64/ 190
	H M S				12 KM	SE 1.8		AVG MAG 4.8				
JUN 15	10 58 39.5		45.12S	167.64E	R							
	+- 0.9		0.04	0.06								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	MNW	IP	10 58 54.1	D	-0.9	0.66	181		4.8	4.8		
		E(S)	59 04		-2.4							
	ROX	IP	10 59 03.8	D	1.4	1.24	107		4.5	4.8		
		EPG	06		1.4							
		E	09									
		E	14.5									
		S	21.0		1.8							
	KAI	E(p)	10 59 38		1.6	3.76	48	4.7				
		E	11 00 04									
		E(S)	20		0.5							
		E	22.5									
	GPZ	EP	10 59 37		-0.7	3.86	70	4.4				
		E	11 00 06									
		ES	22		0.1							
		E(S*)	33		-4.2							
		E	53									
	COB	EP	10 59 58.5		-1.1	5.49	45	4.9				

		ES	11 00 59		-2.1							
	WEL	E(P)	11 00 15		2.3	6.46	56	4.7				
		E(P*)	31		-0.3							
		ES	01 24		-0.4							
	TNZ	EP	11 00 31		1.0	7.76	43					
		S	01 56.5		1.3							
		E	02 05									
	TON	E	11 00 42			8.33	48	5.1				
		E	57									
		E	01 46									
		E(S)	02 16		7.3*							
	CNZ	EP?	11 00 39		1.5	8.33	48					
		E	42									
		E	48									
		E	01 13.5									
		E(S)	02 15		6.1*							
		E	19									
	KRP	EP	11 00 50		-0.4	9.31	42					
		E	01 14									
		E	02 00									
		E(S)	30		-2.0							
		E	39									
	TUA	E	11 01 12			9.48	52					
		E(S)	02 39		3.0							
	GNZ	E	11 02 43			10.09	54					
		E(S)	50		-0.2							
		E	03 09									
		E	12									
	ONE	ES	11 03 02		-1.2	10.64	31	5.2				
												64/ 191
	H M S				12 KM	SE 1.6		AVG MAG 4.1				
JUN 15	11 39 15.2		45.11S	167.40E	R							
	+- 1.4		0.04	0.09								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	MNW	P?	11 39 30.2		-0.8	0.69	167		4.1	4.2		
		E	31									
		S	42.5		-0.1							
	ROX	EP?	11 39 41		0.8	1.40	106		2.9	3.9		
		E(PG)	46		2.4							
		S	58.2		-0.5							
	KAI	EPG	11 40 33		-0.8	3.89	50	4.2				
		E(S)	58		-0.1							
		E	59.5									
	GPZ	EP	11 40 15		-0.5	4.02	71	3.6				
		E	34									
		E(S)	59		-2.4							
		E	41 03									
		ES*	09		-8.7*							
	COB	E(S)	11 41 38		-1.6	5.61	46	4.7				
	WEL	ES	11 42 02		-1.3	6.60	57	4.6				
	TNZ	E	11 41 24			7.87	44					
		E(S)	42 34		0.5							
		E	42									
	TON	E(S)	11 42 50		2.8	8.45	49	4.6				
		E	54									
	CNZ	E	11 41 20			8.46	49					
		E(S)	42 49		1.6							
		E	55									
	ONE	E	11 43 44			10.72	32					
												64/ 192
	H M S				12 KM	SE 1.5		AVG MAG 4.0				
JUN 16	18 43 55.7		39.23S	177.33E	R							
	+- 0.5		0.03	0.03								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S		
	TUA	IP*	18 44 04.8	D	0.4	0.45	342					
		E(S*)	10		-0.8							
		E	14.5									

GNZ	IP*	18 44 10.3	D	-0.1	0.80	43		4.2	4.5
	E	18							
	E(S*)	22		0.7					
	ESG	24		1.2					
	E	40							
WNZ	EP?	18 44 17.5		0.4	1.13	302			4.4
	E(S*)	31		-0.3					
	E	42							
CNZ	EP	18 44 20.2		-0.3	1.39	271		4.0	4.1
	EP*	22		1.5					
	E(PG)	24		0.2					
	E	29.5							
	E	33.5							
	E(S)	38		-0.9					
	E	47							
TON	E(P*)	18 44 23.5		2.9	1.39	271	3.3		
	E(PG)	26		2.0					
	E	30							
	ES	37		-2.0					
	ES*	41		1.8					
	SG	43.5		0.7					4.2
KRP	EP	18 44 25		-2.5	1.92	312			
	E	28.5							
	EP*	30		0.4					
	EPG	32		-2.5					
	E	47							
	E	45 04							
TNZ	EP?	18 44 33		0.4	2.29	270		3.6	3.5
	E	35							
	EPG	43		0.9					
	E	51							
	ES	45 01		1.0					
	E(SG)	22		8.9*					
WEL	EP?	18 44 39		-1.2	2.84	223	3.7		
	EPG?	54		0.8					
	ES	45 14		0.3					
	E	42							
ONE	E	18 45 01			4.18	325	3.6		
	E	30							
	E	38							
	ES?	44		-1.7					
GPZ	S	18 46 18.5		-3.3	5.68	217	4.3		
	E	37							

64/ 19

H M S								
JUN 16	22 31 09.3	42.03S	172.82E	12 KM	SE 2.3		AVG MAG	3.7
	+- 0.5	0.04	0.05	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	22 31 27.5		-0.8	0.95	356	4.1		
	ES	40		-2.3					
KAI	P	22 31 31		-0.1	1.16	244	3.8		
	ES	46		-1.2					
WEL	EP	22 31 36		-1.4	1.64	63	3.6		
	P*	38.5		0.1					
	ES	56		-2.1					
	E(S*)	32 01		0.8					
GPZ	EP	22 31 36.5		-1.3	1.66	184	3.6		
	S	56.5		-2.2					
	E(S*)	32 02		1.0				3.8	4.1
TNZ	P	22 31 57		0.0	3.08	23			
	EPG	32 12		0.3					
	ES	33		0.2					
TON	E	22 32 08			3.50	37			
	E	39							
	E(S)	46		3.0					
	E	51							
	ESG	33 08		0.6					

CNZ	EP?	22 32 06	D	3.3	3.51	37		3.7	3.9
	E	08							
	E(S)	46		2.9					
	E(S*)	59		2.6					
	ESG	33 06		-1.6					
KRP	P	22 32 17		-0.5	4.60	28		3.1	3.0
	E(P*)	34		4.8					
	ES	33 08		-1.6					
	E(S*)	25		-4.3					
	ESG	45		0.5					3.8
TUA	ES*	22 33 24		-5.6*	4.61	47		3.7	3.9
GNZ	EP*	22 32 41		1.3	5.22	51			
	E(S)	33 20		-4.4					
	E	34 07							3.8
MNW	ES	22 33 29		2.5	5.31	223			

64/ 194

H M S								
JUN 17	07 07 06.7	38.55S	175.98E	33 KM	SE 1.8		AVG MAG	3.1
	+- 0.7	0.04	0.05	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	EP	07 07 18		-1.8	0.72	331		3.1	2.9
	E(P*)	20		-0.8					
	E(S*)	33		2.0					2.6
CNZ	EP	07 07 18		-2.0	0.73	208			
	E	20.5							
	E	27							
	E	34							
	E	36							
	E	44							
TON	E	07 07 26			0.74	208	2.2		
	E(S*)	33		1.4					
TUA	EP	07 07 23		-0.0	0.95	106		3.6	3.2
	E	50							
TNZ	E(P*)	07 07 31		-1.2	1.40	243		3.4	2.8
	ES*	52		1.0					
	E	55							
GNZ	E(P*)	07 07 37		1.5	1.60	94		3.6	3.2
	E	08 08							

64/ 195

H M S								
JUN 20	02 32 16.4	36.05S	179.45E	205 KM	SE 1.8		AVG MAG	4.8
	+- 1.6	0.07	0.10	15				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P	02 33 04		-0.8	2.83	203		5.8	5.3
	E	37							
	ES	40		-2.3					
	E	44							
TUA	EP	02 33 11		0.6	3.31	213		5.5	5.2
	E	52.5							
	E(S)	54		1.8					
	E	34 10							
KRP	P	02 33 14		-0.6	3.65	238		4.9	4.0
	ES	59		-0.6					
ONE	EP	02 33 20		-0.7	4.14	272	4.0		
	E	50							
	E(S)	34 09		-1.5					
	E	31							
CNZ	P	02 33 25	U	0.9	4.42	223		4.7	4.0
	E	29							
	E	37							
	E	40							
	E(S)	34 20		3.4					
TON	EP	02 33 25.5		1.3	4.42	223	4.4		
	E	30							
	E	37							
	E	40							
	E	49							

	E(S)		34 22		5.2*					
	E		51							
TNZ	EP	02	33 35		2.2	5.10	231		4.6	4.1
	E		41							
	E		54							
	E		34 26							
	E		42							
	E		59							
WEL	EP	02	33 48		-1.4	6.38	214	5.4		
	E		34 13							
	E		16							
	E		20							
	ES		35 00		-1.9					
COB	E	02	34 32			7.28	224	4.9		
	ES		35 24		1.3					
KAI	E	02	34 29			8.98	222	5.2		
	E		59							
	E		36 04							
GPZ	EP	02	34 26.5		-0.1	9.25	212	5.4		
	ES		36 07		-1.6					

	H	M	S									64/ 19
JUN 21	10	28	21.0	39.20S	179.64E	12 KM	SE	1.6	AVG	MAG		4.1
		+-	1.8	0.06	0.10	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
GNZ	EP	10	28	44		-1.8	1.38	293					4.1
	EPG			48		-1.0							
	E			54									
	E			58									
TUA	EP	10	28	54	D	0.4	1.98	281					3.8
	EPG		29	02		0.9							
	ES			15		-2.7							
CNZ	EP	10	29	12		2.0	3.18	269					3.5
	ES			47		0.1							
TON	E	10	29	35			3.19	269	3.8				
	E			45									
	ES			49		1.9							
TNZ	E	10	29	27			4.09	269					3.4
	EP*			32		-0.1							
	E(S)		30	10		1.2							
WEL	EP?	10	29	25		0.2	4.27	239	4.4				
	EP*			37		1.8							
	E		30	12									
	E(S)			14		0.7							
GPZ	ES	10	31	14		-2.4	6.91	227	4.6				
KAI	ES	10	31	19		-1.2	7.07	239	4.4				

	H	M	S									64/ 19
JUN 24	11	08	29.7	36.75S	178.36E	33 KM	SE	2.5	AVG	MAG		3.9
		+-	2.1	0.07	0.14	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
GNZ	P	11	08	59		-0.2	1.91	188			4.0		4.5
	E		09	13									
	E			17									
	E(S)			24		2.6							
	ES*			28		-1.2							
	E			32									
TUA	EP	11	09	05		1.0	2.27	205					3.8
	E			15									
	E			22									
	ES*			38		-1.8							
KRP	EP	11	09	09	D	1.3	2.54	241					3.8
	EP*			14		-0.4							
	ES			35		-1.6							
	E			42									
	E			54									
CNZ	E	11	09	22			3.31	221					3.3

	E		24							
	EP*		29		1.5					
	E		38							
	ES	10	00		4.6					
	E		19							
TON	E	11	09	22			3.31	221	3.4	
	ES			59		3.4				
	E		10	14						
ONE	E(P)	11	09	17		-2.1	3.37	286		
	EP*			29		0.4				
WEL	ES	11	10	43		-1.4	5.33	211	4.7	
	E			45						
KAI	ES	11	11	44		-1.4	7.87	221	4.5	
GPZ	S	11	11	48.5		-4.6	8.20	210	4.6	

	H	M	S									64/ 198
JUN 24	11	37	56.4	44.91S	167.70E	12 KM	SE	2.0	AVG	MAG		4.8
		+-	0.9	0.03	0.06	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
MNW	IP*,	11	38	11.9	U	-0.5	0.87	184					
	E(S*)			24		-0.2							
ROX	IP.	11	38	18.8	DW	-0.9	1.27	117			5.3		
	E(PG)			22		-0.3							
	ES			37		0.0							
	E(S*)			40		3.7							
KAI	E(P)	11	38	51		0.0	3.59	50	4.8				
	ES		39	32		-0.3							
	E			54									
GPZ	EP	11	38	51		-2.2	3.75	73	4.7				
	E			52									
	E		39	28									
	E(S)			33		-3.2							
	E(S*)			41		-9.9*							
	E(SG)		40	02		-1.0							
COB	ES	11	40	12		-1.8	5.31	46	4.7				
	E			32									
WEL	EP	11	39	26		-1.6	6.32	57	4.5				
	EPG?		40	05		0.9							
	ES			34		-3.7							
	E			48									
TNZ	EP	11	39	45		0.6	7.58	43					
	EP*		40	09		1.8							
	E(S)		41	09		1.2							
	E			15									
	E			32									
TON	E	11	40	00			8.16	48	4.9				
	ES		41	26		4.5							
	E			43									
CNZ	EP	11	39	54		1.8	8.16	48					
	E		40	07									
	E			48									
	E		41	27									
KRP	EP	11	40	05		0.1	9.13	43					
	E			52									
	ES		41	46		1.4							
ONE	S	11	40	29			10.44	31	5.2				
	E			20.5									
	E			32									
	ES		42	15		-0.4							

	H	M	S									64/ 199
JUN 26	08	21	11.9	38.02S	178.40E	33 KM	SE	2.5	AVG	MAG		4.4
		+-	2.3	0.07	0.11	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
TUA	IP*	08	21	36.5	D	1.5	1.26	231			4.9		4.8
	E			41									
	S*			52.5		0.4							

	E		56								
KRP	IP	08 21	48	D	1.7	2.27	271		4.0	4.1	
	E(P*)		54		1.9						
	S	22	12		-0.3						
	E(S*)		23		1.0						
TNZ	EP	08 22	04.5	D	3.2	3.36	248		4.0	3.5	
	EP*		09		-1.7						
	ESN		43		4.0						
ONE	E	08 22	19			3.94	303	3.6			
	E(S)		48		-5.0						
WEL	EP	08 22	16		1.8	4.31	220	4.6			
	E(P*)		25		-1.9						
	ES	23	01		-1.0						
COB	ES	08 23	27		-0.1	5.35	233	4.6			
KAI	ES	08 24	04		-2.5	6.99	228	4.8			
GPZ	EP	08 22	53		0.3	7.15	216	5.1			
	ES	24	07		-3.4						

64/ 20

	H	M	S								
JUN 27	01	15	38.9	38.86S	176.42E	12 KM	SE	2.1	AVG MAG		3.7
	+-		0.5	0.03	0.03	R					
				H	M S	DIR RES	DIST	AZ	W-A	W P	W S
	WNZ	E		01	15 56		0.34	312			
		E			16 02						
	TUA	IP*		01	15 50	D 0.2	0.57	85		4.1	4.2
		ES*			58	0.2					
		E(SG)			16 00	1.5					
	CNZ	IP*		01	15 53	D 0.0	0.76	243		3.5	
		E(S*)			16 03	-0.4					
	KRP	IP		01	15 59	U -1.7	1.16	323		3.1	3.1
		E(S)			16 12	-4.8					
		E(S*)			16	0.5					
		E(SG)			20	1.8					
	TNZ	EP		01	16 06	-0.8	1.62	258		3.1	3.1
		E			23						
		E(S)			27	-0.4					
		ES*			32	2.7					
		ESG			36	2.3					
	WEL	E(P)		01	16 23	1.0	2.74	207	3.7		
		EP*			29	2.2					
		E			46						
		E(S)			53	-1.4					
		ES*		17	00	-2.8					
		E			04						
	COB	EP		01	16 34	0.4	3.60	231	4.1		
		E			17 09						
		ES			17	2.0					
	KAI	E		01	16 50		5.28	225	4.2		
		ES			17 53	-2.5					
		E			18 05						
		E			12						
	GPZ	E		01	17 18		5.61	209	4.0		
		ES			51	-12.2*					
		E			18 08						

64/ 2

	H	M	S								
JUN 28	05	29	47.7	44.35S	167.84E	12 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
	MNW	(P*)		05	30 13	-0.4	1.44	186		4.0	4.1
		E			15						
		EPG			16	-0.9					
		E(S*)			34	1.4					
		ESG			36	-0.3					
		E			39						
	ROX	E(P*)		05	30 14	-1.1	1.54	138		3.8	3.8
		E(S*)			36	0.5					

	E		43								
KAI	E(P*)	05 30	43		-0.1	3.17	56	3.8			
	E(S)		31 13		-0.4						
	E(S*)		26		1.3						
GPZ	EP*	05 30	51		1.9	3.53	81	3.4			
	E(S)		31 21		-0.9						
	E(S*)		39		3.7*						
	ESG		46		-0.6						
COB	E(SG)	05 32	31		-0.5	4.86	50	4.0			

64/ 202

	H	M	S								
JUN 28	14	07	17.7	42.59S	173.34E	12 KM	SE	2.6	AVG MAG		3.3
	+-		0.8	0.06	0.09	R					
				H	M S	DIR RES	DIST	AZ	W-A	W P	W S
	GPZ	EP*		14	07 38	-1.6	1.21	204	3.1		
		E			46						
		ES*			56	0.1					
		E			08 03						
	COB	EP*		14	07 46	0.3	1.57	343	3.1		
		E			48						
		ES			08 04	-1.1					
		E			09						
	WEL	EP		14	07 45	-1.4	1.68	40	3.0		
		EP*			49	1.4					
		ES			08 07	-0.6					
		ESG			18	3.4					
	TNZ	E		14	08 13		3.49	13		3.6	3.3
		ES*			09 08	3.6					
		ESG			14	-1.5					
	CNZ	EP*		14	08 20	-3.5	3.78	27		3.5	3.4
		EPG			31	-3.2					
		E(S*)			09 14	1.1					
		ESG			22	-3.1					
	KRP	P		14	08 35	4.3	4.95	21		3.6	
	MNW	ES		14	09 34	1.6	5.20	230			3.1

64/ 203

	H	M	S								
JUN 29	18	27	35.4	37.93S	176.94E	33 KM	SE	0.3	AVG MAG		3.2
	+-		0.5	0.02	0.02	R					
				H	M S	DIR RES	DIST	AZ	W-A	W P	W S
	TUA	E(P*)		18	27 52.5	0.0	0.89	169		3.0	3.2
		E(S)			28 02	-0.3					
		E(S*)			05	0.2					
	GNZ	E(P*)		18	27 56	0.1	1.11	130		3.2	3.4
		E(S*)			28 11	-0.1					

64/ 204

	H	M	S								
JUN 30	14	02	20.6	39.22S	175.19E	240 KM	SE	1.6	AVG MAG		3.5
	+-		1.3	0.07	0.07	9					
				H	M S	DIR RES	DIST	AZ	W-A	W P	W S
	CNZ	IP		14	02 53.0	U 1.0	0.28	86			
		ES			03 17	0.8					
	TNZ	EP		14	02 53	0.0	0.63	273		3.3	3.0
		E(S)			03 19	0.9					
		E			24						
	KRP	EP		14	02 58	1.0	1.32	12		3.1	2.7
		ES			03 24	-1.0					
	TUA	ES		14	03 27	-1.5	1.58	75			3.5
	WEL	EP		14	03 05.5	2.1	2.09	189	3.8		
		E			18						
		S			38.5	2.0					
	GNZ	EP		14	03 06.3	1.0	2.28	76		3.8	3.9
		E			32						
		E(S)			38	-1.9					
		E			43						
	COB	ES		14	03 45	-1.9	2.65	225			
	KAI	ES		14	04 20	-2.2	4.37	220			

	GPZ	EP	14 03 35.5		0.5	4.86	202	4.6			
		ES	04 32		-0.9						
											64/ 20
	H	M	S								
JUL 01	05	20	08.9	38.87S	178.22E	47 KM	SE	2.6	AVG MAG		4.4
	+-		3.1	0.15	0.18	41					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	GNZ	IP		05	20 17.2	U	-1.0	0.28	326		
	TUA	P		05	20 25		0.3	0.84	274		
	CNZ	P		05	20 44		1.6	2.11	260		4.3
		I			53						
	KRP	P		05	20 42		-3.3	2.31	293		4.1
		I			49						
		E			21 00						
	TNZ	P		05	20 57		1.8	3.01	263		4.0 3.8
		E			21 21						
		ES			32		1.7				
	WEL	P		05	21 03.0		-0.3	3.58	227	4.7	
		S			47		2.2				
	COB	S		05	22 14		-0.5	4.76	241	4.7	
	KAI	ES		05	22 51		-2.8	6.33	233	4.8	
	GPZ	E(P)		05	21 46		3.3	6.39	219	4.9	
		ES			22 52		-3.2				
											64/ 20
	H	M	S								
JUL 01	10	44	17.9	38.90S	177.81E	33 KM	SE	0.9	AVG MAG		3.1
	+-		1.8	0.14	0.06	R					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	GNZ	IP*		10	44 25.0	U	-0.5	0.30	33		
		S*			31		0.0				
	TUA	P*		10	44 29		0.2	0.53	279		
		ES*			36		-0.7				
	KRP	P*		10	44 55		0.9	2.03	298		3.1
		E			45 05						
											64/ 20
	H	M	S								
JUL 03	18	25	20.6	38.70S	176.11E	12 KM	SE	2.2	AVG MAG		2.9
	+-		1.9	0.05	0.11	R					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG		18	25 24.0		0.8	0.07	358		2.3
	CNZ	PG		18	25 34		-0.1	0.66	221		
		SG			41		-2.1				
		E			50						
	KRP	PG		18	25 40		1.2	0.90	330		2.9 2.8
		SG			49		-2.0				
		E			56						3.2
	TNZ	E		18	25 53			1.43	250		
		ESG			26 11		2.1				
	GNZ	E		18	25 58			1.50	88		3.5
											64/ 20
	H	M	S								
JUL 05	14	48	33.4	38.25S	176.00E	221 KM	SE	1.6	AVG MAG		4.2
	+-		1.4	0.08	0.06	9					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP	EP		14	49 02		-0.9	0.49	311		
		ES			24		-1.8				
	CNZ	IP		14	49 07.2		1.7	1.01	201		3.8 3.5
		S			33		2.5				
	TUA	P		14	49 06		0.2	1.06	122		4.0 4.2
		ES			29		-2.0				
	TNZ	P		14	49 12		2.2	1.58	233		4.4
	GNZ	P		14	49 11		0.7	1.63	105		4.5 4.6
		ES			39		0.1				
		I			42						
	WEL	P		14	49 27		0.3	3.18	197	4.4	
		S			50 08		0.0				
	COB	S		14	50 20		-1.0	3.79	221	4.3	

	KAI	ES	14 50 55			-4.6*	5.53	218	4.4		
	GPZ	EP	14 50 01			-0.7	6.00	204	4.7		
		S	51 09			-1.5					
											64/ 209
	H	M	S								
JUL 07	03	55	39.9	44.22S	168.64E	33 KM	SE	0.8	AVG MAG		4.0
	+-		0.6	0.03	0.03	R					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	ROX	P*		03	56 04		-0.4	1.35	159		4.2 4.7
		S*			22		-0.6				
	MNW	P*		03	56 10		-0.8	1.72	204		4.0 3.9
		S*			35		1.3				
	KAI	EP*		03	56 26		-0.4	2.64	51	3.7	
		ES*			57 01		-0.1				
	GPZ	EP*		03	56 32		0.4	2.94	81	3.8	
		ES*			57 11		0.7				
											64/ 210
	H	M	S								
JUL 07	14	56	55.8	35.03S	179.18E	300 KM	SE	0.8	AVG MAG		4-7
	+-		1.2	0.05	0.10	11					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	ONE	P		14	58 02		-0.6	4.01	258		
	TUA	P		14	58 03		-0.7	4.11	203		4.4 4.5
		ES			57		0.2				
	KRP	P		14	58 04		0.1	4.12	224		4.6
	CNZ	P		14	58 16		1.2	5.08	214		4.0
	TNZ	EP		14	58 26		4.4*	5.65	221		4.2
		E			59 20						
	WEL	EP		14	58 40		0.2	7.15	208	5.3	
		S		15	00 01		-0.3				
	COB	ES		15	00 18		0.1	7.90	218	5.0	
	KAI	ES		15	00 57		0.7	9.64	217	5.1	
	GPZ	ES		15	01 04		-0.9	10.02	208	5.3	
											64/ 211
	H	M	S								
JUL 07	22	31	01.7	40.47S	176.53E	33 KM	SE	1.7	AVG MAG		4.1
	+-		0.8	0.04	0.05	R					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	CNZ	P*		22	31 28.0		-0.4	1.47	329		4.4
	WEL	EPN		22	31 26		-0.5	1.57	238	3.8	
		EPG			34						
		S*			49		-2.0				
	TUA	PN		22	31 29		0.4	1.72	16		4.2 4.3
		E			44						
		ESN			50		1.1				
		E			32 06						
	TNZ	EP*		22	31 37		-1.9	2.09	307		3.9 4.1
		E			41						
		ES*			32 06		-0.6				
	GNZ	EPN		22	31 33		-1.5	2.15	33		3.7 4.3
		E			51						
		E			32 26						
	KRP	EPN		22	31 42		0.6	2.65	343		4.4 3.9
		IP*			50		1.6				
		ES*			32 23		-0.3				
	COB	EPG		22	31 59			2.95	257	4.0	
		E			32 04						
		E			26						
		ES*			33		0.7				
	GPZ	EP*		22	32 16		-1.2	4.33	221	4.2	
		ESN			57		4.6*				
	KAI	E		22	32 22			4.36	240	4.2	
		ESN			57		3.9				
											64/ 212
	H	M	S								
JUL 08	06	26	05.7	38.08S	176.46E	261 KM	SE	2.0	AVG MAG		4.1
	+-		2.3	0.12	0.12	16					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	06 26 38		-2.8	0.74	282		3.6	
TUA	P	06 26 42		0.4	0.91	143		4.1	
CNZ	P	06 26 45		0.8	1.33	212		3.2	3.2
	E(S)	27 16		2.1					
GNZ	P	06 26 45.5		1.1	1.35	115		4.5	4.3
	S	27 12		-2.2					
TNZ	EP	06 26 50		1.0	1.97	235		3.8	
	E	27 24							
WEL	P?	06 27 07		2.7	3.46	202	4.5		
	S	50		0.1					
COB	ES	06 28 04		-0.3	4.16	223	4.4		
KAI	ES	06 28 40		-1.6	5.88	219	4.5		
GPZ	ES	06 28 50		-1.1	6.31	206	4.8		

64/ 21

	H M S						AVG MAG	3.2
JUL 10	12 34 46.3	41.86S	171.54E	33 KM	SE	1.3		
	+- 1.0	0.04	0.06	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	EP	12 34 58		-0.8	0.67	188	3.1		
	S	35 07		-0.9					
COB	EP	12 35 06		0.2	1.19	50	3.2		
	S	21		0.6					
GPZ	EP*	12 35 24		1.9	2.01	156	3.1		
	ES*	49		0.3					
	E	52							
WEL	ES*	12 36 02		-1.1	2.49	78	3.2		

64/ 2

	H M S						AVG MAG	4.5
JUL 10	12 56 27.5	38.91S	175.45E	180 KM	SE	1.7		
	+- 0.8	0.04	0.05	7				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	12 56 53.4		1.7	0.30	165			
	S	57 11		0.6					
TNZ	P	12 56 56		1.6	0.88	251		3.8	4.1
	S	57 15		-0.3					
KRP	IP	12 56 53	U	-2.2	0.98	4		4.9	
TUA	P	12 56 59		0.9	1.33	86		4.1	4.5
	S	57 20		-1.8					
GNZ	IP	12 57 05.0	U	-0.2	2.03	83		5.0	5.1
	E	28.5							
	I	31.5							
WEL	P	12 57 11.8		2.0	2.43	192	4.7		
	S	43		0.6					
COB	EP?	12 57 18		1.1	3.02	223	4.6		
	S	55		0.1					
ONE	EP	12 57 20		0.3	3.24	344	4.1		
	S	59		-0.9					
KAI	EP	12 57 41		2.2	4.74	219	4.7		
	S	58 32		-2.1					
GPZ	EP	12 57 45		-0.2	5.23	203	5.1		
	S	58 42		-3.4					
ROX	ES	12 59 45		-5.5*	7.99	213			
MNW	ES	13 00 14		0.1	8.98	218			

64/ 2

	H M S						AVG MAG	4.2
JUL 12	17 46 59.4	39.23S	175.08E	220 KM	SE	2.0		
	+- 1.5	0.08	0.08	12				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	17 47 30.4		1.9	0.36	85			
	S	54		3.0					
TNZ	P	17 47 30		0.9	0.55	275		3.8	3.7
	E	54							
KRP	IP	17 47 33	D	-0.9	1.35	15		4.0	3.8
	S	58		-2.7					
TUA	P	17 47 38		1.4	1.67	76		4.2	4.1
	E(S)	48 04		-1.3					

WEL	P	17 47 42	1.6	2.07	187	4.6	
	S	48 12	-0.0				
GNZ	P	17 47 45	1.6	2.37	77	4.3	4.5
	(S)	48 15	-2.6				
COB	EP	17 47 46	0.2	2.58	223	4.7	
	S	48 21	-0.8				
KAI	ES	17 48 57	-1.2	4.31	219	4.4	
GPZ	E(P)	17 48 14	1.4	4.82	202	5.0	
	ES	49 07	-2.6				

64/ 216

	H M S						AVG MAG	4.2
JUL 14	01 10 58.1	40.43S	179.85W	33 KM	SE	1.1		
	+- 1.2	0.03	0.06	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	PN	01 11 34		-0.5	2.42	317		4.1	4.1
	P*	41		0.1					
	SN	12 02		-0.2					
TUA	PN	01 11 42		1.9	2.82	304		4.2	4.0
	IP*	47		-0.7					
	ESN	12 12		-0.0					
CNZ	PN?	01 11 56		3.3*	3.75	288		3.5	3.7
	EP*	12 02		-1.5					
	SN	35		0.4					
WEL	EPN	01 11 59		0.5	4.17	256	4.5		
	SN	12 43		-1.8					
TNZ	ESN	01 12 56		0.5	4.61	284			3.7
COB	ESN	01 13 22		0.9	5.67	261	4.7		
GPZ	ESN	01 13 40		-0.2	6.47	237	4.7		
	E	47							
KAI	ESN	01 13 51		0.7	6.89	249	4.6		

64/ 217

	H M S						AVG MAG	5.3
JUL 14	23 11 44.4	32.67S	178.92W	33 KM	SE	4.5		
	+- 26.7	1.57	1.46	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ONE	P	23 13 11		-3.5	6.36	239			
GNZ	P	23 13 11		-4.7	6.45	202			
	I	14							
TUA	EP	23 13 20		-1.7	6.90	206			
	I	30							
	I	48							
KRP	P	23 13 19		-3.0	6.92	219			
CNZ	P	23 13 35		-0.1	7.90	213			
TNZ	EP	23 13 43		0.4	8.47	218			
WEL	EP	23 14 05		2.5	9.96	209			
	LR	16 18							
GPZ	E	23 16 33			12.84	209	5.3		
MNW	EP	23 15 35		7.0	16.70	215			

64/ 218

	H M S						AVG MAG	4.2
JUL 16	02 52 57.0	40.79S	176.07E	33 KM	SE	2.0		
	+- 1.0	0.09	0.09	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P*	02 53 16.8		-0.6	1.10	243	4.0		
	S*	31		-1.4					
CNZ	PN	02 53 22.2	U	-0.5	1.64	346		4.2	
TNZ	EPN	02 53 29		0.5	2.06	321		4.2	4.1
	I	37							
	E	54 13							
TUA	E	02 53 37			2.15	23			
	ESN	52		-2.5					
COB	EP*	02 53 45		3.2	2.54	262	4.3		
	SN	54 04		-0.1					
GNZ	EPN	02 53 39		2.8	2.62	36		4.1	3.9
	EP*?	45		1.8					
	ESN	54 04		-2.0					
	E	09							

	GPZ	E	02 54 01			3.86	220	4.1			
		ESN	35		-1.1						
	KAI	ES	02 54 37		-0.1	3.90	242	4.5			

64/ 20

	H M S									
JUL 16	13 26 07.4	38.27S	176.13E	33 KM	SE 2.2		AVG MAG	3.9		
	+- 1.1	0.10	0.06	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP*	13 26 18	U	-1.2	0.58	306		4.0		
	TUA P*	13 26 24		-1.8	0.97	124		3.7		
	CNZ P*	13 26 25		-1.7	1.03	206		4.3		
	GNZ P*	13 26 37		1.9	1.53	105		3.9	3.5	
	TNZ EP	13 26 36		2.8	1.64	236				
	IP*	37		0.0						
	ES*	59		0.1						

64/ 22

	H M S									
JUL 17	15 06 24.2	40.51S	176.43E	33 KM	SE 1.5		AVG MAG	3.5		
	+- 1.4	0.05	0.08	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ P*	15 06 50		-0.8	1.48	332		3.8	3.7	
	ES*	07 10		-0.7						
	TON				1.48	332	3.2			
	WEL P*	15 06 51		0.1	1.48	238	3.1			
	ES*	07 10		-0.7						
	E	19						3.7	3.6	
	TUA EP*	15 06 56		-0.2	1.79	18				
	E	07 26							3.5	
	TNZ EP*	15 07 03		2.2	2.06	309				
	E	35								
	GNZ E	15 07 17			2.24	34				

64/ 22

	H M S									
JUL 18	00 31 12.8	41.32S	175.09E	33 KM	SE 0.7		AVG MAG	3.8		
	+- 0.5	0.02	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL IP	00 31 19.2		-0.9	0.24	277	3.8			
	S	24.3		-1.0						
	COB EP	00 31 41		0.4	1.79	277	3.7			
	S	32 02		0.4						
	CNZ P	00 31 46		0.5	2.15	10		3.9	3.8	
	S	32 10		-0.2						
	TNZ P	00 31 46		-0.2	2.20	345		3.8	3.1	
	S	32 12		0.5						
	GPZ ES	00 32 31		0.4	2.98	216	3.7			

64/ 22

	H M S									
JUL 18	04 43 44.7	38.21S	176.08E	33 KM	SE 2.7		AVG MAG	3.5		
	+- 1.5	0.19	0.10	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P*	04 43 55		-0.5	0.51	303		3.5		
	TUA EP*	04 44 02		-1.9	1.03	126		3.7		
	GNZ EP*	04 44 15		1.7	1.59	107		3.6		
	TNZ EP*	04 44 15		0.6	1.65	233		3.5		

64/ 22

	H M S									
JUL 20	10 22 53.3	35.87S	179.85W	33 KM	SE 2.5		AVG MAG	5.1		
	+- 2.9	0.14	0.25	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ EP	10 23 39		-2.1	3.25	211		5.3		
	I	42								
	IP*	49		-1.2						
	I	24 02								
	TUA EP	10 23 47		-1.4	3.78	218		5.2	5.1	
	I	48.5								
	S	24 40		9.4*						
	KRP P	10 23 51		-3.5	4.23	240		5.0		

	ONE	EP	10 24 02		1.0	4.70	269				
	CNZ	P	10 24 04		-0.2	4.94	226		4.8		
		EP*	16		-3.2						
						4.95	226	5.1			
	TON								5.1		
	TNZ	EP	10 24 15		1.2	5.65	233				
		I	25								
	WEL	E	10 24 40.8			6.85	216	5.7			
		I	48								
		IP*	52		0.1						
		S	25 47		2.3						
		E	26 00								
	COB	ES	10 26 09		1.6	7.80	226	5.2			
	KAI					9.49	223	5.2			
	GPZ	EP	10 25 11		2.9	9.71	214	5.6			
		ES	26 51		-1.8						
	MNW	EP	10 26 04		4.3	13.69	220				

64/ 224

	H M S									
JUL 20	22 43 02.7	36.04S	179.89W	33 KM	SE 4.5		AVG MAG	5.2		
	+- 5.7	0.24	0.50	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ EP	22 43 46		-2.3	3.09	212		5.1	5.2	
	I	49								
	E	44 04								
	ES	15		-8.1						
	TUA EP	22 43 55		-0.7	3.63	220		5.3		
	I	56								
	KRP P	22 44 02		-0.3	4.12	241		5.0		
	ONE EP	22 44 07		-2.9	4.67	272				
	CNZ P	22 44 11		-0.7	4.80	228		5.1		
	I	24								
	TNZ P	22 44 21		-0.5	5.53	234		5.2	4.4	
	I	30								
	E	45 40								
	WEL E	22 44 55			6.70	217	6.0			
	S	45 53		2.6						
	E	46 40								
	COB E	22 45 12			7.67	227	5.1			
	ES	46 17		3.6						
	KAI				9.35	223	5.0			
	GPZ E	22 45 25			9.56	215	5.5			
	ES	47 00		1.5						
	MNW EP	22 46 15		7.9	13.55	220				

64/ 225

	H M S									
JUL 20	22 55 46.1	34.83S	179.25W	226 KM	SE 1.8		AVG MAG	5.2		
	+- 5.7	0.24	0.51	74						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ P	22 56 54		-0.3	4.40	209		5.1		
	E	57 00								
	TUA EP	22 57 00		-0.7	4.91	215		5.2		
	I	08								
	KRP P	22 57 03		-1.6	5.22	232		5.1		
	CNZ P	22 57 17		2.1	6.03	222				
	TNZ EP	22 57 24		0.6	6.70	228				
	E	35								
	WEL ES	22 59 10		0.9	7.99	214	5.2			
	GPZ ES	23 00 14		-1.0	10.85	213	5.4			

64/ 226

	H M S									
JUL 21	09 12 58.4	41.34S	175.02E	12 KM	SE 2.1		AVG MAG	3.8		
	+- 0.9	0.04	0.05	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL IP*	09 13 02.8	DE	-0.0	0.20	286	3.4			
	S*	06		0.1						
	COB EP*	09 13 29		-0.3	1.74	278	3.7			
	S*	53		0.6						

	C_NZ	P•	09 13 33.8	-3.0	2.18	11		3.8	3.9
		S•	14 03	-2.5					
	TNZ	EP•	09 13 36	-1.3	2.21	347		3.8	3.8
		S•	14 06	-0.4					
	GPZ	EP•	09 13 51	1.3	2.93	216	3.6		
		ESN	14 17	-1.6					
	TUA	E	09 13 56		3.01	34			
	KRP	E(P)	09 13 54	3.2	3.44	7		4.2	4.1
		EP•	59	0.7					
		S•	14 46	2.7					
	GNZ	EP•	09 14 03	2.8	3.55	42			3.8
		ESN	31	-2.2					

64/ 22

	H M S							
JUL 21	10 33 39.7	37.97S	177.31E	12 KM	SE 2.8		AVG MAG	4.5
	+- 1.2	0.06	0.07	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	EP•	10 33 56		0.8	0.85	189		4.3	4.7
	IPN	58		0.6					
	ES•	34 15		8.3•					
GNZ	P•	10 33 54.8		-0.9	0.87	140		5.0	5.2
	IS•	34 11		3.4					
KRP	P	10 34 01		-3.7	1.40	271		4.1	
CNZ	PN	10 34 10		-0.5	1.85	228		4.1	4.3
	IP•	12		-0.4					
	(SG)	44		1.9					
TON	EPN	10 34 10		-0.6	1.86	228	3.7		
	S•	39		1.9				4.4	
TNZ	E(P)	10 34 23		2.1	2.60	241			
ONE	E(P)	10 34 29		-0.2	3.22	312	4.1		
	E(S)	35 09		2.4					
WEL	PN	10 34 35		-2.7	3.85	210	4.8		
	IP•	47		0.4					
	SN	35 20		-1.7					
	E	41							
COB	E(P)	10 34 54		4.7	4.71	227	4.7		
	ESN	35 45		2.4					
GPZ	EPN	10 35 10		-6.3	6.72	210	5.1		
	SN	36 27		-3.6					

64/ 22

	H M S							
JUL 22	00 07 34.8	33.25S	179.90E	309 KM	SE 2.2		AVG MAG	5.1
	+- 2.5	0.13	0.27	23				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	ES	00 09 45		-0.7	4.56	194			4.5
ONE	EP	00 08 54		-1.7	5.22	240			5.0
GNZ	ES	00 10 04		-2.9	5.59	195		3.8	
KRP	EP	00 09 02		-1.3	5.86	216			4.8
TUA	E(P)	00 09 08		3.4	5.97	201			
	S	10 16		0.9					
CNZ	EP	00 09 18		2.2	6.90	209			
	ES	10 39		4.0					
TNZ	EP	00 09 21		-1.0	7.41	215			
WEL	EP	00 09 41		-0.4	9.00	206	5.8		
	S	11 20		-1.1					
COB	ES	00 11 36		-0.3	9.68	214	5.3		
GPZ	EP	00 10 16		-0.6	11.87	206	5.5		
	ES	12 24		-0.6					

64/ 23

	H M S							
JUL 22	17 43 31.6	44.59S	168.22E	33 KM	SE 1.7		AVG MAG	4.4
	+- 1.0	0.05	0.08	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ROX	IP	17 43 52.0	D	1.0	1.18	139		4.4	4.5
	S	44 06		0.5					
MNW	IP	17 43 52.0		-0.2	1.26	199		4.8	4.8
	S	44 07		-0.6					

KAI	EP	17 44 18	0.6	3.10	49	4.5
	S	53	0.7			
GPZ	EP	17 44 19	-1.2	3.31	76	4.3
	S	57	-0.4			
C_OB	S	17 45 32	-2.1	4.82	45	4.8
WEL	EP	17 44 55	0.6	5.83	58	4.7
	ES	45 56	-2.4			
CNZ	EP	17 45 24	4.8•	7.67	48	
	ES	46 46	3.6			

64/ 230

	H M S							
JUL 22	22 18 33.0	38.70S	176.10E	33 KM	SE ND		AVG MAG	2.6
	R	R	R	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	P	22 18 36.2		-2.5•	0.07	2			
	I	37.5							
CNZ	(P)	22 18 53		7.7•	0.66	221		2.3	2.3
	E	19 00							
TUA	E(P)	22 18 56		8.4•	0.83	98		3.2	
KRP	E(P)	22 18 52		3.5•	0.89	330		2.7	
GNZ	E	22 19 10			1.51	88			

64/ 231

	H M S							
JUL 23	15 27 06.0	37.07S	177.07E	267 KM	SE 1.1		AVG MAG	4.3
	+- 1.0	0.06	0.09	10				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	15 27 46		0.8	1.33	118		4.1	4.0
	ES	28 15		-0.4					
TUA	EP	15 27 48		-0.1	1.73	178		3.9	4.0
	ES	28 20		-0.6					
GNZ	P	15 27 48.2		0.1	1.74	155		4.8	4.6
	E(S)	28 16		-4.7•					
CNZ	EP	15 27 55		0.7	2.44	209		3.5	
ONE	EP	15 27 54		-1.3	2.54	300			
TNZ	EP	15 28 02		2.0	2.99	224		4.1	
WEL	P	15 28 18		0.2	4.58	202	4.6		
	S	29 14		0.1					
KAI					6.98	217	4.7		
GPZ	EP	15 28 52		-0.9	7.43	206	5.2		
	S	30 16		-0.7					

64/ 232

	H M S							
JUL 25	08 59 35.0	41.19S	175.29E	33 KM	SE 1.7		AVG MAG	4.0
	+- 0.9	0.04	0.05	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP•	08 59 43.2	UW	-0.9	0.40	257	3.6		
	S•	50.8		0.2					
COB	ES•	09 00 36		0.9	1.93	272	3.6		
TON					2.00	6	3.8		
CNZ	PN	09 00 06		0.2	2.00	6		4.0	4.2
	ESN	33		4.1•					
TNZ	P	09 00 10		2.6	2.12	341		4.1	4.2
	IP•	12		-0.7					
	ES•	40		-0.9					
TUA	EP•	09 00 23		-0.9	2.78	32		3.9	4.0
	E	01 18							
GPZ	ESN	09 00 57		-0.5	3.17	217	3.6		
KAI	EP•	09 00 33		2.1	3.19	244	3.8		
	ES•	01 11		-1.7					
KRP	P•	09 00 30		-2.3	3.27	3		4.0	4.2
	S•	01 13		-2.2					
GNZ	E	09 03 48			3.30	40			4.6

64/ 233

	H M S							
JUL 27	08 47 14.5	35.19S	178.91E	311 KM	SE 1.8		AVG MAG	4.6
	+- 1.9	0.10	0.16	16				

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	ECZ	EP	08	48	08		1.1	2.51	187		4.3			
		ES			48		0.2							
	GNZ	P	08	48	16		-0.6	3.52	191		4.8		5.1	
		ES			49	03	-2.2							
	ONE	EP	08	48	16		-3.1	3.75	260					
	KRP	P	08	48	21		0.9	3.85	224		4.3			
	TUA	EP	08	48	21		0.6	3.87	201		4.4		4.7	
		ES			49	12	0.1							
	CNZ	P	08	48	31		0.2	4.82	213		3.9		3.8	
		ES			49	33	2.3							
	TNZ	P	08	48	40		2.6	5.38	221		4.4			
	WEL	P	08	48	55		-0.6	6.90	207	5.3				
		S			50	13	-1.9							
	COB	ES	08	50	32		1.1	7.63	218	5.0				
	GPZ	ES	08	51	17		-1.0	9.77	208	5.3				

64/ 23

	H	M	S								
JUL 29	14	25	53.0	41.25S	174.13E	74 KM	SE	1.2	AVG MAG		4.5
	+-		0.5	0.03	0.04	8					

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WEL	IP	14	26	07.8		1.3	0.48	95	4.9				
	S			16		-0.7							
COB	P	14	26	14.0		1.0	1.06	278	5.0				
	S			27.5		-0.5							
TNZ	P	14	26	27		0.6	2.07	5		4.6		4.8	
	S			51		-0.0							
TON							2.31	28	4.5				
CNZ	P	14	26	30.5		0.7	2.32	28		4.7			
	I			38									
KAI							2.40	237	4.5				
GPZ	EP	14	26	36		0.9	2.68	204	4.4				
	S		27	05		-1.7							
TUA	E	14	26	52			3.37	45		4.2		4.4	
	E		27	37									
KRP	P	14	26	46		-0.3	3.50	19		4.5		4.8	
	E			53									
	ES		27	25		-1.7							
GNZ	E	14	26	56			3.97	50		4.1		4.3	
	E		27	02									
	E			13									
	ES			35		-3.5*							
ONE	EP	14	27	14		0.4	5.47	2	4.5				
	E		28	11									
	E			26									
ROX	E	14	27	26			5.49	218				4.8	
	E		28	17									

64/ 23

	H	M	S								
JUL 29	21	31	54.6	46.21S	166.82E	33 KM	SE	1.8	AVG MAG		4.3
	+-		2.6	0.21	0.16	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
MNW	P*	21	32	08		-0.6	0.71	53					
	IS*			18		-0.6							
ROX	P*	21	32	27		-1.4	1.90	68		4.3		4.2	
	S*			53		-0.6							
GPZ	EPN	21	33	05		0.8	4.84	61	4.3				
	ESN		34	00		2.3							
KAI							4.94	43	4.5				

64/ 23

	H	M	S								
JUL 30	03	16	28.5	49.38S	164.53E	33 KM	SE	0.3	AVG MAG		4.8
	+-		0.5	0.06	0.06	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
MNW	P	03	17	29		0.1	4.17	31		4.7			
ROX	P	03	17	41.5		0.2	5.08	42		4.4		4.7	
	S		18	37		-0.3							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	GPZ	EP	03	18	20		-0.3	7.98	48	5.0				
		ES		19	47		0.3							
	KAI	E	03	18	30			8.36	38	5.1				
		E		19	08									
		ES			56		0.1							
	KRP	E	03	19	54			13.93	39					

64/ 237

	H	M	S								
JUL 30	05	57	57.4	37.58S	175.68E	12 KM	SE	1.4	AVG MAG		4.0
	+-		0.4	0.02	0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	IP*	05	58	02.9		-1.7	0.36	198					
CNZ	P	05	58	23		-2.2	1.62	184			4.1		4.1
	IP*			28		1.8							
	ESG			54		1.9							
TON							1.62	184	3.8				
TUA	EP	05	58	25		-1.1	1.69	137			3.8		3.8
	IP*			31		3.6*							
	ES*			49		-0.8							
TNZ	P	05	58	28.5		-0.4	1.90	212			3.9		3.7
	EP*			32		1.1							
	ES*			55		-1.1							
ONE	EP*	05	58	34		-0.2	2.09	329	3.8				
	IPG			40		0.3							
	ES			57		0.3							
	ES*		59	02		0.2							
GNZ	P*	05	58	33		-2.0	2.13	121			4.4		
	IPG			42		1.4							
ECZ	EP*	05	58	39		1.5	2.28	94					
WEL	P*	05	59	04.0		1.1	3.77	190	4.3				
	I			07.0									

64/ 238

	H	M	S								
JUL 31	10	58	57.9	38.04S	176.21E	259 KM	SE	1.1	AVG MAG		4.4
	+-		0.9	0.04	0.06	8					

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	IP	10	59	32.9	U	0.8	0.54	282			4.0		
TUA	P	10	59	35.0		0.5	1.06	136			4.8		4.5
	ES	11	00	03		0.1							
GNZ	P	10	59	38.0		0.2	1.55	113			4.3		4.8
	S	11	00	07		-1.5							
TNZ	P	10	59	41		1.0	1.83	231			4.0		
	E	11	00	22									
ECZ	EP	10	59	41		0.6	1.88	80			3.8		4.0
	ES	11	00	13		-0.3							
ONE	EP	10	59	47		-1.3	2.70	326					
WEL	P	10	59	56.5		0.4	3.43	199	4.5				
	S	11	00	43		1.7							
COB	ES	11	00	54		-0.2	4.06	220	4.6				
KAI	EP	11	00	25		0.8	5.79	218	4.7				
	ES		01	30		-1.7							
GPZ	EP	11	00	30		-0.0	6.26	204	4.8				
	ES		01	41		-1.1							

64/ 239

	H	M	S								
AUG 02	18	54	58.0	38.94S	176.01E	123 KM	SE	1.9	AVG MAG		3.4
	+-		2.4	0.07	0.08	26					

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
TUA	EP	18	55	21.5		1.9	0.90	82			3.2		3.4
	ES			36		-0.1							
KRP	EP	18	55	22.5		1.1	1.08	340			3.3		2.9
	E			34.5									
	E(S)			38		-1.2							
TNZ	E	18	55	28			1.29	259					3.2
	E			57									
GNZ	E	18	55	29			1.60	80					3.6
	ES			48		-1.5							

	ECZ	E		18 56 26			2.35	59		
	WEL	E		18 58 49			2.53	202	3.3	
		E(S)		56 11		0.8				
		E		14						
	GPZ	ES		18 57 17		-1.5	5.38	207	4.0	
		E		19						
		H M S								64/ 240
AUG 05		11 05 59.6	32.37S	179.37W	288 KM	SE	2.8	AVG MAG		7.1
		+- 1.4	0.13	0.19	15					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	RAO	EP	11 06 55		-3.5	3.35	22			
		E	07 24							
		E	39							
	ECZ	EP	11 07 26		1.9	5.58	197			
		E(S)	08 32		1.7					
		E	12 09							
	ONE	IP.	11 07 36.5	E	4.8	6.21	235	6.2		
		E(S)	08 43		-1.0					
	GNZ	EP	11 07 37		0.3	6.61	198			
		E	43							
		E	57							
		E	08 27							
		E	57							
	KRP	IP	11 07 44.0	U	3.3	6.94	216			
		E	08 38							
	TUA	EP	11 07 43		1.3	7.02	203			
		E	48							
		E	08 00							
		E	21							
		E	42							
		E	55							
		E	09 05							
	TON					7.98	210	6.6		
	TNZ	EP	11 08 02		2.2	8.49	215			
		E	04							
		E	23							
		E(S)	09 46		11.6*					
	WEL	EP?	11 08 16		-3.4	10.06	206	7.6		
		E	09 39							
		E	10 07							
		ES	09		-0.6					
		E	17 43							
		ESCS	20 51							
		E	21 02							
		E	22 38							
	COB	E	11 08 23			10.76	214			
		E	31							
		E	10 17							
		ES	23		-2.2					
		E	13 31							
	KAI	EP?	11 08 46		-3.5	12.50	213	7.1		
		E	52							
		E	09 22							
		ES	11 00		-4.0					
	GPZ	EP	11 08 53.7		-1.1	12.93	207	7.4		
		E	56							
		E	11 02							
		E	10							
		E(S)	12		-1.5					
		EPCS	17 46							
		ESCS	20 57							
	ROX	EP	11 09 30		1.9	15.75	211			
		ES	12 14		-1.0					
		ESCP	17 26							
	MNW	EP	11 09 41		2.2	16.75	213			
		E	11 48							

		ES	12 37			2.2				
		ESCP	17 28							
		H M S								64/ 241
AUG 06		08 35 03.5	38.52S	176.05E	33 KM	SE	0.6	AVG MAG		2.9
		+- 0.4	0.03	0.03	R					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP*	08 35 17		-0.5	0.71	326		2.9	2.8
		E(S*)	28		0.4					
	TUA	E(P*)	08 35 21		0.1	0.91	109		3.0	
	TNZ	E(P*)	08 35 30		0.1	1.46	242			
		H M S								64/ 242
AUG 08		22 10 29.2	41.12S	175.70E	12 KM	SE	1.8	AVG MAG		3.8
		+- 0.9	0.04	0.05	R					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	P	22 10 46.2	U	0.9	0.72	257	3.8		
		E	55							
		S	56.5		-0.7					
	TNZ	EP	22 11 06		1.5	2.18	332		3.9	4.1
		EP*	09		1.4					
		ES	32		1.2					
		ES*	37		0.6					
	COB	ES	22 11 33		0.9	2.24	270	3.7		
		E(S*)	36		-2.1					
	TUA	E(PG)	22 11 19		-2.2	2.57	26		3.6	3.8
		ES*	45		-3.0					
		E	12 05							
	GNZ	E(S)	22 11 55		3.0	3.06	37			3.7
	KRP	EP	22 11 19		0.6	3.20	358		4.0	
		EP*	25		0.0					
		E	37							
		E(S)	56		0.6					
		ES*	12 05		-1.9					
		E	07							
		ESG	10		-7.0*					
	GPZ	ES	22 12 00		-0.8	3.42	220	3.4		
		H M S								64/ 243
AUG 10		05 24 50.0	39.58S	177.34E	33 KM	SE	1.8	AVG MAG		3.8
		+- 1.1	0.06	0.05	R					
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TUA	P	05 25 04		-0.1	0.79	349		4.0	4.3
		ES	14		-0.4					
	GNZ	EP*	05 25 10		-0.0	1.08	30		4.0	3.8
		E	16							
		E	19							
		ES	23		1.5					
		E	38							
	KRP	EP	05 25 23	D	-0.1	2.17	319		3.5	3.3
		EP*	28		-0.6					
		E	38							
		E(S)	48		-0.1					
		ES*	55		-2.4					
	TNZ	E(P)	05 25 26		0.8	2.33	279			
		EP*	31		-0.2					
		E	42							
		E(S)	56		4.1					
		ES*	26 02		0.1					
		E	14							
	WEL	ES	05 25 56		-2.5	2.60	228	3.3		
	GPZ	ES	05 27 00		-6.6*	5.41	219	4.3		
		H M S								64/ 244
AUG 11		09 10 22.4	40.77S	173.25E	233 KM	SE	1.7	AVG MAG		3.6
		+ 1.5	0.06	0.08	11					

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S	
	COB	S	09	11	17.8		0.2	0.51	231	3.9					
	WEL	EP	09	10	58.5		0.9	1.26	115	3.9					
		ES		11	26		1.2								
	TNZ	EP?	09	11	00.5		-1.5	1.80	29						3.1
		S			32.5		-0.1								
	KAI	EP	09	11	06		-0.1	2.23	218	3.5					
		E			15										
		ES			39		-0.9								
		E			48										
	GPZ	S	09	11	53.5		-0.3	2.96	189	3.8					
	KRP	EP?	09	11	21		2.7	3.35	33			3.3			
	TUA	ES	09	12	04		-2.6	3.59	58						3.7
	GNZ	E	09	12	17			4.25	62						3.8
		ES			21		0.3								
															64/ 246
	H	M	S												
AUG 11	14	21	57.1	35.36S		179.65E		12 KM	SE	1.8	AVG	MAG			4.3
	+-		1.5	0.05		0.09		R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	ECZ	EP		14	22	39		2.3	2.49	201			4.1		
		E(PG)				47		-0.6							
		E			23	11									
		E(S*)				15		1.3							
		ESG				21		-0.2							
		E				35									
	GNZ	EP		14	22	49.5		-1.3	3.53	201			4.6		4.4
		E(P*)			23	05		6.4*							
		E(PG)				11		2.5							
		E(S*)				43		-1.8							
	TUA	EP		14	22	56.5		-0.4	3.98	209			4.4		4.3
		E			23	04									
		E(PG)				17		-0.6							
		E				50									
		E(S*)			24	01		2.6							
	KRP	EP		14	23	00.2	U	0.6	4.18	231			4.2		
		E				04									
		E(PG)				24		2.3							
		E			24	10									
	ONE	EP		14	23	01		-0.7	4.33	263	4.0				
		E(P*)				11		-1.3							
		ES				52		1.2							
	TNZ	E		14	23	28			5.68	226			4.5		3.8
		EPG				50		-1.9							
		E			24	53									
	WEL	E		14	24	48			7.05	212	4.7				
		E(S)				55		-0.9							
	GPZ	E		14	24	26			9.92	211	4.8				
		ES			26	01		-3.0							
		E				20									
															64/ 246
	H	M	S												
AUG 11	17	41	40.1	38.08S		176.57E		185 KM	SE	1.1	AVG	MAG			3.8
	+-		1.3	0.06		0.05		8							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	KRP	IP		17	42	07.5	D	0.1	0.83	280			3.6		3.1
		E				11									
		ES				28		-0.4							
	TUA	P		17	42	08		0.5	0.86	148			3.9		3.8
		E				25									
		ES				29		0.3							
	GNZ	IP		17	42	11	U	0.3	1.27	117			4.4		4.1
		E				30.5									
		S				33.5		-0.9							
	TNZ	E		17	42	19			2.04	237					
	WEL	P		17	42	36		0.3	3.50	203	3.9				
		E			43	17									

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S	
		ES			20		1.4								
	GPZ	E		17	44	21			6.35	207	4.3				
		ES				23		-1.5							
															64/ 247
	H	M	S												
AUG 11	19	44	56.9	44.62S		168.29E		12 KM	SE	1.7	AVG	MAG			4.1
	+-		0.9	0.03		0.05		R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	ROX	IP		19	45	18.9	U	0.7	1.12	140			3.7		4.4
		E(PG)				22		2.3							
		S				33.5		-0.4							
		E(SG)				35		0.2							
	MNW	IP		19	45	19.1	U	-0.8	1.25	202			4.3		4.3
		E				34.1									
		E(S)				35		-1.9							
	KAI	EP		19	45	46.5		1.8	3.09	48	3.8				
		E			46	13									
		S				22.5		2.0							
		E(SG)				41		-0.1							
	GPZ	EP		19	45	48		0.9	3.27	75					
		E(P*)				55		1.0							
		E(PG)			46	03		-0.1							
		E				20.5									
		S				24.5		-0.5							
		E(S*)				34		-2.9							
	COB	ES		19	47	00		-2.2	4.81	44	4.3				
															64/ 248
	H	M	S												
AUG 12	09	27	05.1	40.19S		175.06E		112 KM	SE	1.0	AVG	MAG			4.7
	+-		0.3	0.02		0.02		5							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	TON								1.05	20	3.6				
	WEL	IP		09	27	29.6	USE	1.5	1.11	192	4.0				
		ES				46		0.5							
		E				53									
	TNZ	IP		09	27	29.1	U	0.7	1.14	332			5.0		5.2
		E				43									
		ES				45		-1.0							
	COB	EP		09	27	39.5		1.0	1.98	243	4.9				
		E				44									
		ES			28	03		-0.5							
	TUA	EP		09	27	41		0.6	2.13	50					4.7
		E				46									
		E				49									
		E				57									
		E			28	06									
		S				07.5		0.7							
		E				21									
	KRP	IP		09	27	43	U	0.4	2.30	9			5.1		4.6
		E				51									
		E			28	04									
		ES				10		-0.8							
		E				28									
	GNZ	IP		09	27	48.7	D	-0.4	2.77	57			4.9		4.9
		E			28	12									
		E				16									
		E(S)				22		-0.2							
		E				40									
	KAI	E		09	28	07			3.60	229	4.9				
		E				13									
		E				26									
		E				40									
		E(S)				41		-1.3							
	ECZ	EP?		09	28	01		-0.4	3.69	49			4.2		
		E				13									
		E				19									
		E				23									

		E		28						
		E		35						
		ES		43		-1.3				
	GPZ	EP	09	28	03.5	-1.3	3.94	206	5.0	
		S			45.5	-4.8*				
	ONE	EP	09	28	12	0.3	4.45	353	4.4	
		E			20					
		ES		29	04	1.3				
		E			24					
	ROX	EP?	09	28	43	-0.2	6.76	217		
		E			49					
		E		29	52					
		E(S)			54	-5.2*				
	MNW	E(P)	09	28	58	0.6	7.80	222		
		E		29	27					
		E		30	10					
		ES			19	-5.7*				

64/ 24

	H	M	S							
AUG 13	09	01	38.6	41.54S	173.71E	12 KM	SE	1.5	AVG MAG	3.1
	+-		0.5	0.03	0.03	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	(P*)	09	01	55		1.1	0.83	73	3.0		
	E(S*)		02	07		1.7					
COB	EPG	09	01	57		0.8	0.87	301	3.1		
	E(S*)		02	07		0.7					
KAI	ES	09	02	37		1.8	1.98	239	2.9		
GPZ	E	09	02	38			2.29	200	3.1		
	ES			40		-2.8					
TNZ	E	09	02	39			2.41	12			3.5
	ES			45		-0.7					
	ES*			52		-0.6					
	ESG			59		-0.8					
KRP	EP*	09	02	46		0.0	3.88	22		3.0	3.4
	EPG			56		-1.0					
	ES		03	21		-0.3					
	ES*			32		-4.7*					

64/ 25

	H	M	S							
AUG 13	12	52	53.6	37.15S	177.44E	12 KM	SE	1.5	AVG MAG	4.2
	+-		0.9	0.06	0.03	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	12	53	12.5		-1.2	1.04	122			4.2
	E(PG)			15		0.3					
	E			21							
	E			38							
	E			48							
GNZ	P	12	53	20.5	D	-0.2	1.56	163		4.8	4.8
	E(PG)			26		0.8					
	E			29							
	E			34							
	E			52							
TUA	EP	12	53	20.5		-1.6	1.67	188			4.4
	E(P*)			24		0.8					
	E(PG)			27		-0.4					
	E			31							
	E(SG)			49		-1.0					
	E			54							
KRP	EP	12	53	20.5	D	-1.9	1.70	242		4.0	4.2
	E(PG)			28		0.1					
	E(S*)			46		-0.2					
	E(SG)			49		-1.8					
	E		54	02							
TNZ	EP	12	53	44		1.9	3.15	229		4.0	3.5
	EP*			49		0.4					
	E(S*)		54	32		2.1					
WEL	EP?	12	54	03		1.0	4.62	206	4.1		

		E			09					
		EP*			14	0.3				
		E			19					
		EPG			30	3.0				
		E(S)			52	-2.3				
	GPZ	ES	12	55	58	-4.8*	7.49	208	4.4	

64/ 251

	H	M	S							
AUG 15	07	32	08.5	40.18S	175.05E	49 KM	SE	0.8	AVG MAG	3.0
	+-		0.5	0.02	0.04	13				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	EP	07	32	27.5		-0.8	1.12	332		3.0	3.0
	S			43.5		0.4					
WEL	EP	07	32	29		0.6	1.13	191	3.1		
	ES			43		-0.2					
COB	E(S)	07	33	04		0.0	1.99	242	3.1		
KRP	EP	07	32	44		-0.5	2.28	10		3.0	2.9
	ES		33	12		0.5					

64/ 252

	H	M	S							
AUG 15	19	37	59.0	45.08S	167.17E	33 KM	SE	1.2	AVG MAG	5.0
	+-		0.8	0.02	0.05	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	I(P*)	19	38	13.1	D	-0.9	0.77	156			
	E			23							
	E(S*)			25		0.2					
ROX	E(P*)	19	38	26.0	D	-1.2	1.57	105		4.9	4.9
	E			30							
	E			33							
	E			39							
	E(S*)			49		0.8					
	E		39	01							
KAI	EP	19	38	56		-1.0	3.99	52	4.8		
	E		39	23							
	E			32							
	E(S)			41		-0.4					
	E			45.5							
COB	E	19	39	28			5.70	48	5.0		
	E		40	17							
	ES			22		-0.8					
	E			37							
WEL	EP	19	39	35		1.1	6.72	58	4.9		
	E			38.5							
	E		40	26							
	E			45							
	E(S)			49		1.8					
	E			55							
	E		41	00							
	EL			30							
TNZ	EP?	19	39	50		-0.5	7.96	45			
	E			52							
	E		40	06							
	ES		41	16		-0.8					
	E			20							
	E			25							
TON							8.55	50	5.2		
KRP	EP	19	40	11		-0.1	9.51	44			
	E			19							
	E			29							
	E		41	46							
	ES			52		-1.7					
	E		42	00							
	E			15							
TUA	E(P)	19	40	15		1.1	9.72	53			
	E			47							
	E		41	06							
	E		42	20							

	GNZ	ES?	19 42 20		6.9*	10.33	55				
	ONE	E(P)	19 40 30		2.1	10.78	33	5.4			
		E	42 20								
		ES	24		0.3						
		E	32								

64/ 25

	H M S									
AUG 15	22 03 38.3	38.55S	179.20E	12 KM	SE 1.8	AVG MAG	4.3			
	+- 1.3	0.04	0.06	R						

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P*	22 03 58	U	2.7	0.93	264		4.9	5.2
	ES*	04 10		2.1					
	E	32							
ECZ	P*	22 03 58	U	1.5	1.00	329		4.6	4.7
	ES*	04 10		0.1					
	E	19							
TUA	EP	22 04 06		-0.3	1.63	260		4.6	4.7
	EP*	07		-0.3					
	E(PG)	10		-1.3					
	E(S*)	30		1.1					
	ESG	32		-1.3					
TON					2.93	256	3.8		
KRP	EP	22 04 23		-1.4	2.95	281		4.0	3.7
	EP*	29		-0.9					
	E(PG)	36		-2.1					
	E(S)	58		-1.0					
	ES*	05 08		-0.7					
TNZ	EP	22 04 38		2.1	3.82	259		3.9	3.3
	E(PG)	53		-2.6					
	E(S*)	05 38		3.3					
WEL	ES	22 05 33		-0.0	4.37	230	4.0		
GPZ	ES	22 06 38		-1.2	7.14	222	4.4		

64/ 25

	H M S									
AUG 16	00 42 33.1	44.97S	167.68E	33 KM	SE 1.7	AVG MAG	5.1			
	+- 0.8	0.03	0.05	R						

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP	00 42 47.2	U	-0.3	0.82	183		5.1	4.8
	E	55							
	E(S)	58		-0.1					
ROX	IP	00 42 53.8	D	0.2	1.26	114		4.9	4.8
	P*	54.8		-1.3					
	E	59							
	S	43 11		2.0					
	S*	14.5		1.4					
KAI	EP	00 43 25		-1.2	3.64	49	5.0		
	E	32							
	ES	44 09		2.1					
GPZ	EP	00 43 26.5		-1.7	3.78	72	5.2		
	ES	44 09		-1.4					
COB	E(P)	00 43 49		-0.6	5.36	45	5.0		
	ES	44 48		-0.6					
WEL	EP	00 44 02		-1.0	6.35	57	5.0		
	E	20							
	ES	45 10		-2.4					
TNZ	EP	00 44 20.5		0.4	7.62	43			
	E	29							
	E(S)	45 47		4.2*					
KRP	EP	00 44 41		0.2	9.17	43			
	E	51							
	E	58							
	E	45 19							
	ES	46 18		-1.9					
GNZ	E	00 46 35			9.97	54			
	E(S)	39		0.3					
ONE	EP	00 45 01		2.8	10.49	31			
	ES	46 54		3.0					

64/ 255

	H M S									
AUG 16	02 53 34.1	44.09S	167.82E	33 KM	SE 1.1	AVG MAG	3.6			
	+- 2.0	0.11	0.08	R						

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	02 54 00		-0.6	1.70	185		3.6	3.8
	ES	21		0.4					
ROX	EP?	02 54 02		0.6	1.75	143		3.5	3.5
	S	21.5		-0.4					
KAI	E	02 55 21			3.05	60	3.5		

64/ 256

	H M S									
AUG 16	10 59 19.7	39.36S	173.77E	12 KM	SE 1.9	AVG MAG	3.5			
	+- 0.9	0.05	0.07	R						

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	EP*	10 59 31		1.6	0.50	70		3.2	3.4
	E	37							
	E(S*)	39		2.5					
	E	48							
TON					1.38	84	3.5		
COB	E(S)	11 00 14		-0.4	1.90	204	3.2		
	E(S*)	18		-0.4					
	E	32							
KRP	E(P)	10 59 53		0.5	1.99	44			3.9
	EP*	58		3.1					
	ES	11 00 14		-2.7					
	ES*	19		-2.3					
	E(SG)	26		-1.0					
	E	35							
WEL	E(P*)	10 59 55.8		-0.4	2.07	159	3.7		
	E	11 00 00							
	E	07							
	E	13							
	E(S*)	22		-1.5					
	E	30							
	E	36							
ONE	E	11 01 03			3.61	8	3.5		
KAI	E	11 00 48			3.63	209	3.8		
	E	01 00							
	ES*	11		0.5					
GPZ	ES	11 01 16		0.7	4.41	191	3.7		

64/ 257

	H M S									
AUG 16	12 51 46.1	38.36S	176.05E	236 KM	SE 1.4	AVG MAG	3.9			
	+- 1.2	0.06	0.05	8						

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	12 52 16.9	U	-0.8	0.59	317		3.9	2.9
	E	22							
	E	30							
	E(S)	41		-1.3					
TUA	EP?	12 52 18		-1.5	0.98	118		3.8	4.0
	E	21							
	ES	45		-0.6					
TNZ	EP	12 52 25		1.3	1.54	237		3.7	3.1
	ES?	55		2.3					
	E	53 05							
GNZ	P	12 52 25.5		1.6	1.58	101		3.7	4.4
	E	46							
	E	50.5							
	E(S)	53		-0.1					
ECZ	EP	12 52 28.8		0.4	2.08	72		3.8	3.7
	E	57							
	ES	53 01		-0.1					
WEL	EP	12 52 40.2	U	1.1	3.09	198	4.0		
	E	53 16							
	ES	21		0.7					
COB	ES	12 53 33		-0.7	3.74	222	4.1		

	KAI	ES		12 54 10		-1.5	5.47	219	4.4		
	GPZ	ES		12 54 21		-0.8	5.92	205	4.7		
	H	M	S								64/ 2
AUG 16	19	12	09.8	39.23S	173.56E	12 KM	SE	1.5	AVG MAG		2.9
	+-		1.6	0.05	0.09	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	EP*		19	12	22		0.2	0.64	86		2.6	2.9
		E				28							
		S*				30.5		-0.1					
		E				38							
	KRP	EP?		19	12	42		-1.0	2.03	51		3.0	3.1
		EP*				47		1.5					
		EPG				52		1.2					
		ES			13	05		-2.6					
		ESG				19		0.8					
		E				26							
	WEL	ES		19	13	13		0.0	2.25	156	3.1		
	H	M	S								64/ 2
AUG 16	23	11	16.3	37.92S	178.06E	146 KM	SE	2.2	AVG MAG		4.8
	+-		1.8	0.07	0.08	11					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	IP		23	11	36.8		-0.3	0.45	60			
		ES				51		-2.0					
	GNZ	IP		23	11	40.2	D	1.6	0.72	182		5.3	4.8
		ES				56		0.2					
		E			12	10							
	TUA	IP		23	11	43.8	D	1.7	1.14	218		4.7	4.9
		E				57							
		ES			12	01		-0.9					
	KRP	IP		23	11	52.4	U	1.0	1.99	269		4.6	3.8
		E				55							
		E			12	13							
		ES				17		-1.3					
	TNZ	EP		23	12	09.8		3.7	3.15	245			3.7
		E				22							
		ES				48		3.8					
	ONE	E		23	12	18			3.65	305	3.6		
		ES				54		-2.1					
	WEL	EP		23	12	20.9		0.8	4.21	216	5.0		
		E				23							
		E			13	01							
		ES				09		-0.2					
	COB	ES		23	13	33		0.6	5.19	231	4.6		
	KAI	ES		23	14	10		-2.5	6.86	226	4.8		
	GPZ	E		23	13	03			7.08	214	5.2		
		ES			14	15		-2.8					
		E				24							
	MNW	ES		23	15	51		-1.3	11.05	221			
	H	M	S										64/ 2
AUG 17	09	01	26.9	39.37S	173.53E	33 KM	SE	ND	AVG MAG		2.9
		ND		ND	ND	ND							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	E		09	02	13			2.13	48			2.9
		E(S)				24		-0.0					
		E(S*)				33		-0.0					
		E				46							
	WEL	ES*		09	02	33		-0.0	2.13	154	3.0		
	H	M	S										64/ 2
AUG 18	06	38	22.5	39.45S	173.84E	12 KM	SE	1.8	AVG MAG		3.8
	+-		0.5	0.04	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	P*		06	38	32.6		0.6	0.50	58			
		E				38							

		E(S*)			41		2.0				
		E			48						
	COB	E(P*)	06	38	55		-0.0	1.84	207	3.3	
		E		39	13						
		ES			16		0.1				
		ES*			18		-1.4				
		E(SG)			28		3.4				
	WEL	EP*?	06	38	57.3	D	0.1	1.97	159	3.8	
		E			57.8						
		E		39	02						
		E			09						
		E(S*)			23		-0.2				
		E			25						
		E			32						
	KRP	E(P)	06	38	54		-1.6	2.02	42	3.8	4.2
		E(P*)			57		-1.1				
		E			59.5						
		E(PG)		39	02		-1.4				
		E			15						
		ES			19		-1.1				
		E			36						
	KAI	EP*?	06	39	23		-1.8	3.58	210	3.9	
		E(PG)			38		3.1				
		E(S)			56		-2.0				
		E(S*)		40	10		-1.7				
		E(SG)			15		-8.2*				
	ONE	ES	06	40	03		2.3	3.69	7	3.5	
	GPZ	ES	06	40	17		0.8	4.33	192	4.0	
	H	M	S								64/ 262
AUG 19	10	38	23.5	40.64S	174.41E	96 KM	SE	1.9	AVG MAG		3.8
	+-		1.3	0.05	0.07	17					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	P		10	38	42.5	U	1.7	0.70	157	3.7		
		S				54		0.0					
	COB	EP		10	38	49.5		1.2	1.34	250	3.9		
		S			39	06.5		-0.2					
	TNZ	EP		10	38	50		0.3	1.46	359		3.8	3.9
		E			39	02.5							
		ES				07		-2.2					
		E				11							
	KRP	EP		10	39	09		0.8	2.85	18		3.6	3.7
		E				18							
		E				26							
		E				38							
		ES				42		0.3					
	KAI	E		10	39	39			2.93	229	3.5		
		ES				45		1.3					
	GPZ	ES		10	39	50		-3.2	3.32	203	4.1		
	H	M	S										64/ 263
AUG 19	10	54	16.6	38.25S	176.01E	213 KM	SE	2.0	AVG MAG		4.5
	+-		1.4	0.06	0.06	12							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		10	54	45	D	-0.3	0.50	311			
		E(S)			55	05		-2.5					
	TNZ	P		10	54	55.0	U	2.6	1.58	233		4.7	4.0
		E				58							
		E(S)			55	24		3.9					
	GNZ	P		10	54	54	D	1.1	1.63	105			5.0
		E			55	04							
		E				12.5							
		S				19.5		-1.4					
		E				44.5							
		E				25							
	ECZ	P		10	54	58		0.8	2.08	75		4.4	4.5
		E			55	20							

		E		28					
	ONE	E	10	55 08		2.80	331	3.7	
		ES		42	-0.8				
	WEL	EP	10	55 11	1.5	3.18	197	4.7	
		ES		50	-0.5				
	COB	ES	10	56 03	-0.7	3.80	221	4.3	
	KAI	E	10	55 48		5.53	218	4.8	
		E		56 40					
		E(S)		41	-1.6				
		E		54					
	GPZ	EP	10	55 44.5	-0.4	6.01	204	5.2	
		E		56 49					
		ES		52	-1.6				
		E		53					

	H	M	S									64/ 26
AUG 21	13	16	08.5	37.53S	178.27E	193 KM	SE	1.9	AVG MAG			4.2
	+-		2.0	0.11	0.12	12						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	13	16	33.9		-0.4	0.27	126			
	E			38							
	E			47							
	E(S)			52		-2.1					
	E		17	00							
GNZ	EP	13	16	41.0		2.4	1.13	190		4.4	4.4
	E			53							
	E			58.5							
	S		17	04		2.0					
	E			13							
TUA	EP	13	16	43		0.7	1.55	214		3.5	4.3
	E			46							
	ES		17	07		-1.4					
	E			10							
KRP	IP	13	16	46.6	D	-2.4	2.20	259		4.4	
	E			53							
TNZ	EP	13	17	06		1.9	3.48	240		3.9	3.3
	E			43							
	E(S)			50		2.9					
WEL	EP	13	17	18.9		0.2	4.63	215	4.6		
	ES		18	12		-1.0					
COB	E(S)	13	18	34		-0.8	5.57	229			
KAI	E(S)	13	19	13		-1.1	7.25	224	4.4		
GPZ	E	13	19	15			7.49	213	4.5		
	E(S)			19		-0.9					

	H	M	S									64/ 26
AUG 21	18	47	11.4	44.87S	167.39E	33 KM	SE	1.5	AVG MAG			4.1
	+-		1.8	0.08	0.10	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP	18	47	27.1	U	-0.2	0.92	170		4.3	4.1
	E			37							
	E(S)			38		-1.1					
ROX	IP	18	47	36.4	D	1.3	1.49	115		4.1	4.1
	E			43							
	E			53							
	E(S)			54		1.1					
	E			56							
KAI	E	18	48	55			3.74	53			
GPZ	EP	18	48	10		1.1	3.95	75	3.6		
	EP*			20		-0.4					
	ES			51		-1.9					
	E			56							

	H	M	S									64/ 26
AUG 22	05	57	57.0	40.55S	173.24E	195 KM	SE	2.3	AVG MAG			3.4
	+-		2.9	0.09	0.14	21						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	ES	05	58	46		0.6	0.66	216	3.2		
WEL	P	05	58	32.6	U	3.3	1.37	123	3.4		
	S			53.5		-0.8					
TNZ	ES	05	58	58		-0.3	1.62	33			3.1
	E		59	03							
	E			10							
	E			26							
KAI	ES	05	59	13		-0.0	2.41	214	3.8		
KRP	E	05	59	06			3.17	35			2.9
	E			24							
	E(S)			28		-1.0					
GPZ	S	05	59	27.5		-1.7	3.17	188	4.3		

	H	M	S									64/ 267
AUG 22	06	20	24.7	40.13S	175.75E	12 KM	SE	1.8	AVG MAG			3.7
	+-		0.5	0.03	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P	06	20	49		-0.3	1.37	213	3.5		
	S		21	06.5		-1.1					
	E(SG)			14		2.9					
TNZ	P	06	20	49.0		-0.9	1.42	311		3.8	3.7
	EPG			54		0.5					
	E			59							
	E(S)		21	07		-1.6					
	E(S*)			09		0.0					
TUA	EP*	06	20	53.5		-1.6	1.71	40		3.6	3.5
	E(S)		21	10		-5.2*					
	ES*			18		0.2					
KRP	EP	06	20	59.8		-0.7	2.21	356		3.9	3.5
	E		21	01							
	EPG			14		4.5					
	ESG			39		-0.3					
GNZ	E(PG)	06	21	13		1.6	2.31	51		3.6	3.6
	E(S)			28		-1.3					
COB	EPG	06	21	15		-0.0	2.48	246	3.5		
	ES			34		0.3					
	ESG			49		0.5					
KAI	ES	06	22	09		-2.6	4.05	232	3.9		
GPZ	ES	06	22	11		-5.3*	4.24	212	4.0		

	H	M	S									64/ 268
AUG 23	08	39	31.8	41.92S	173.95E	12 KM	SE	2.1	AVG MAG			3.8
	+-		0.6	0.04	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P*	08	39	46.0	UNE	-2.0	0.88	45	4.1		
	E(PG)			51		1.2					
	S*			58.5		-1.4					
COB	EP*	08	39	54		0.0	1.23	312	3.0		
	S*		40	10.5		0.0					
KAI	E(PG)	08	40	12		0.1	1.98	251	3.5		
	E			15							
	E(SG)			38		-0.7					
	E			45							
GPZ	E(P)	08	40	04		-1.0	2.02	208	3.1		
	E(PG)			13		0.3					
	E			21							
	ES*			33		-1.2					
	E			35.5							
TNZ	E(P)	08	40	17		1.9	2.75	7		4.0	3.9
	EPG			30		2.6					
	ES			50		2.4					
	ES*			55		-1.1					
	E		41	01							
	E			16							
TON	E(P*)	08	40	23		-0.7	2.97	25	4.1		
	E(S*)		41	00		-2.7					

		E			02						
		E			06						
		E(SG)			08		-3.9				
		E			20						
	TUA	E(P*)	08	40	42		1.4	3.95	39	4.1	3.7
		E			44						
		ES?			41 20		3.6				
		E(SG)			48		2.9				
	KRP	EP	08	40	37		2.8	4.17	18	4.1	4.1
		EP*			45		0.7				
		E(PG)			50		-6.2*				
		ES*			41 38		-0.8				
		ESG			51		-1.4				
	GNZ	E(PG)	08	41	00		-3.2	4.52	45	4.0	3.8
		E			07						
		E			42 30						

64/ 269

	H	M	S										
AUG 24	02	37	17.5	37.40S		177.11E		258 KM	SE	1.4	AVG MAG		4.2
	+-		1.2	0.08		0.07		8					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		02	37	54		-0.7	1.18	105		3.9	4.0
		E				58							
		E			38	19							
		E				35							
	KRP	IP		02	37	54.0	D	-1.9	1.36	247		3.5	
		E			38	32							
	TUA	EP		02	37	56		-0.3	1.41	179		3.9	4.5
		E				59							
		ES			38	24		-2.2					
		E				27							
	GNZ	P		02	37	57	U	0.5	1.44	150		4.5	5.1
		E			38	00							
		E				21							
		E				27							
		ES				28		1.5					
	TON	E(P)		02	38	04		1.4	2.19	214	3.6		
		E				06							
		E				09							
		ES				38		0.3					
		E				46							
	TNZ	EP		02	38	11		2.2	2.79	229		3.6	3.1
		E				33							
		E(S)				50		1.3					
		E				58							
	WEL	EP		02	38	25.3		-0.3	4.29	204	4.9		
		E			39	18							
		ES				19		0.4					
	COB	ES		02	39	33		-1.1	5.01	221	4.5		
	KAI	ES		02	40	11		-1.5	6.74	219	4.7		
	GPZ	EP		02	39	01		0.2	7.15	207	5.0		
		E			40	20							
		ES				22		0.2					

64/ 270

	H	M	S										
AUG 24	13	06	18.4	38.51S		176.11E		189 KM	SE	2.4	AVG MAG		3.5
	+-		2.4	0.09		0.08		17					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P		13	06	45		-0.5	0.74	322		3.6	3.8
		E(S)			07	03		-3.4					
		E				07							
	TUA	E(P)		13	06	47		0.8	0.87	110			3.3
		ES			07	07		-0.8					
	GNZ	E(P)		13	06	54		2.6	1.51	96		3.3	3.4
		E			07	09							
		E(S)				16		-0.9					
	TNZ	E(P)		13	06	53		1.6	1.51	243			3.1

		E(S)			07 21			4.0			
	WEL	EP		13	07 08.5			0.9	2.96	200	3.9
		ES			46			0.5			
	COB	ES		13	08 01			0.3	3.66	224	
	KAI	ES		13	08 38			-2.0	5.37	220	4.0
	GPZ	ES		13	08 47			-2.9	5.80	206	4.1

64/ 271

	H	M	S										
AUG 24	13	07	39.7	38.79S		177.94E		12 KM	SE	2.2	AVG MAG		4.7
	+-		0.9	0.03		0.05		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IP		13	07	48.9	U	-1.6	0.16	25			
		E(S)				56		-2.3					
	TUA	IP		13	07	54.0	D	-0.6	0.61	268		5.3	5.3
		ES			08	03		-2.5					
	ECZ	EP		13	08	02.0		0.1	1.20	24			
	TON								1.91	257	4.5		
	KRP	EP		13	08	12.5	U	-1.0	2.07	294		4.7	4.6
		E(P*)				17		0.8					
		E				20							
		ES				36		-2.6					
		E(SG)				50		0.3					
	TNZ	P		13	08	26.6		3.0	2.80	261		4.4	4.3
		E(P*)				34		5.4					
		E				43							
		E				53							
		E(SG)			09	15		0.9					
	WEL	P		13	08	32		-0.7	3.48	223	4.7		
		E				49							
		E				55							
		E			09	00							
		E				09							
		E(S)				12		-0.9					
		E				16							
		E(S*)				27		1.0					
	ONE	E(P*)		13	08	52		0.3	4.14	315			
		EP				47		5.3					
		E			09	01							
		ES				28		-0.8					
		E(S*)				45		-0.9					
		E				53							
		ESG				59		-0.4					
	COB	E		13	08	58			4.61	239	4.6		
		E			09	09							
		ES				42		1.9					
		E				45							
		ES*				57		-2.9					
	KAI	EP*		13	09	29		2.0	6.21	231	4.9		
		E				53							
		ES			10	18		-0.4					
		ES*				45		-2.9					
		E			11	36							
	GPZ	E(PG)		13	09	36		-11.4*	6.32	217	4.9		
		E				15							
		E				49							
		S			10	19.5		-1.4					
		ES*				52		0.9					

64/ 272

	H	M	S										
AUG 24	13	09	50.8	38.98S		178.05E		33 KM	SE	0.1	AVG MAG		3.8
	+-		0.2	0.01		0.01		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	P		13	09	59	U	-0.1	0.33	357			
		E(S)			10	05		0.0					
	TUA	P		13	10	04		0.1	0.72	283		3.8	3.7
		S				13.5		-0.0					

	H	M	S										64/ 27
AUG 24	13	10	27.8	38.98S	178.05E	33 KM	SE	0.1		AVG MAG			3.8
	+-		0.2	0.01	0.01	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	GNZ		P	13	10	36	U	-0.1	0.33	357					
			E(S)			42		0.0							
	TUA		P	13	10	41		0.1	0.72	283			3.8		3.4
			S			50.5		-0.0							

	H	M	S										64/ 27
AUG 24	13	12	24.7	38.83S	177.88E	33 KM	SE	1.7		AVG MAG			4.4
	+-		0.7	0.03	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	GNZ		IP	13	12	30.9	U	-0.9	0.22	31					
			E			34									
			E(S)			38		1.2							
	TUA		P	13	12	35.9		0.2	0.57	272			5.3		5.3
			IS			45		1.3							
	ECZ		EP	13	12	44.0		-1.1	1.25	25					
	TON								1.86	258	3.9				
	KRP		EP	13	12	54.5	U	-1.6	2.05	295			4.3		4.1
			E			58									
			EP*		13	01		-0.1							
			E(S)			13		-6.8*							
			E			28									
	TNZ		P	13	13	08.0		2.4	2.75	262					
			EP*			15		2.0							
			E			24									
			E(S*)			55		5.8*							
	WEL		EP	13	13	14		-0.9	3.42	223	4.3				
			E			33									
			E			46									
			E(S)			55		1.8							
			E(S*)		14	08		-1.4							
			E			29									
			E			31									
			E			37									
	ONE		E	13	13	43			4.14	316					
			E(S)		14	12		1.2							
			E(S*)			29		-2.0							
	COB		EP	13	13	30		-0.3	4.55	239	4.2				
			E			50									
			ES		14	23		2.4							
			ES*			40		-3.2							
	KAI		E	13	14	25			6.15	231	4.6				
			ES			59		-0.1							
	GPZ		E	13	14	08			6.25	217	4.5				
			ES		15	01		-0.7							
			E			06									

	H	M	S										64/ 27
AUG 24	13	22	08.0	38.90S	177.92E	33 KM	SE	1.7		AVG MAG			3.4
	+-		1.4	0.09	0.06	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	GNZ		IP*	13	22	14	U	-1.2	0.27	18					
			E(S*)			18		-2.4							
			E			21									
			E			25									
	TUA		IP	13	22	19.8	D	0.3	0.61	279			4.1		4.1
			S			29.8		1.9							
	ECZ		E(P)	13	22	29		-0.1	1.30	22			3.4		3.3
			E(P*)			32		0.3							
			E(S*)			52		2.7							
	KRP		P*	13	22	45		-0.4	2.11	297			3.0		2.8
			E(S*)			23	12	-1.4							
	TNZ		EP*	13	22	57		0.3	2.77	263			3.4		

	H	M	S										64/ 276
AUG 24	13	32	09.6	33.01S	179.38W	33 KM	SE	3.6		AVG MAG			4.7
	+-		1.4	0.14	0.29	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	RAO		EP	13	33	03		-4.0	3.95	19					
			ES			53		2.0							
	ECZ		EP	13	33	21		0.0	4.97	199			4.6		4.4
			ES		34	21		5.2							
	ONE		EP	13	33	39		6.1	5.86	240	4.1				
			E			58									
			E(S*)		34	59		-8.7*							
	GNZ		EP	13	33	34		-0.9	6.01	200					
			E			43									
			E		34	05									
			E(S)			43		2.3							
	KRP		EP	13	33	42.5		2.0	6.42	219					
			E			48									
			E			55									
			E		34	17									
			E(S*)		35	22		-2.5							
	TUA		EP	13	33	39		-1.7	6.44	205					
			E			41									
			ES		34	52		1.0							
			E(S*)		35	26		1.1							
	TNZ		E(P)	13	34	04		2.8	7.97	218					
			E			13									
			E			39									
			E		35	58									
	WEL		EP?	13	34	17		-4.5	9.49	208	5.2				
			ES		36	00		-3.9							
			E			09									
	KAI		ES?	13	36	57		-4.9	11.97	215	5.0				
			E		37	15									
	GPZ		E	13	37	05			12.36	208	5.0				

	H	M	S										64/ 277
AUG 25	02	01	44.6	38.94S	178.09E	33 KM	SE	0.1		AVG MAG			3.3
	+-		0.2	0.02	0.01	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	GNZ		IP	02	01	52.5	U	0.1	0.30	349					
			E(S)			58		-0.0							
			E		02	00									
	TUA		E(P)	02	01	58		-0.1	0.75	280			2.9		3.7
			ES		02	08		0.0							

	H	M	S										64/ 278
AUG 25	02	37	12.0	42.10S	178.40E	33 KM	SE	ND		AVG MAG			3.9
			R	R	R	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	WEL		E	02	38	29			2.84	285	3.7				
			E			31									
	TNZ		EP	02	38	15		1.9*	4.22	312			3.7		3.7
			E			19									
			P*			30.5		4.9*							
			ES		39	06		6.0*							
			ES*			20		-0.8*							
	COB		ES	02	39	09		5.4*	4.37	282	4.1				
	GPZ		E	02	38	37			4.52	247	4.0				
			E			44									
			S		39	13.5		6.4*							
	KAI		ES	02	39	28		4.3*	5.20	263	4.2				
			ES*			45		-5.2*							

	H	M	S										64/ 279
AUG 25	02	37	16.7	39.00S	178.13E	33 KM	SE	0.4		AVG MAG			3.8
	+-		0.7	0.04	0.03	R							

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IP	02	37	25	U	-0.2	0.36	346			
		S			31.5		0.1					
	TUA	EP	02	37	31	D	0.2	0.79	284		3.8	3.8
		ES			41		-0.1					

64/ 281

	H	M	S								
AUG 25	10	29	54.8	40.39S	173.56E	216 KM	SE	1.4		AVG MAG	3.7
	+-		1.0	0.05	0.06	8					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB	P	10	30	27.9		2.0	0.94	222	3.6		
		S			50		-0.1					
	WEL	P	10	30	30.8		2.5	1.28	135	4.1		
		E			44							
		E			48							
		S			55		0.7					
	TNZ	E(P)	10	30	29		0.1	1.36	28		3.4	3.3
		E(S)			54		-1.4					
		E			57							
		E		31	03							
	KAI	E	10	30	45			2.68	216	3.8		
		ES		31	18		-0.7					
	KRP	EP	10	30	44.0		-0.6	2.90	33		3.4	3.1
		E			59							
		E(S)		31	24		0.8					
	TUA	EP	10	30	48.8		0.8	3.19	61		3.8	3.7
		E(S)		31	28		-1.1					
		E			30							
	GPZ	E	10	30	55			3.37	191	4.4		
		E		31	29.5							
		E(S)			31		-2.0					
	GNZ	EP	10	30	56.2		0.1	3.87	65		4.3	3.7
		E(S)		31	39		-4.5*					
	ECZ	P	10	31	06.5		-0.2	4.72	57		4.1	3.8
		E(S)		32	02		-0.6					

64/ 282

	H	M	S								
AUG 25	22	43	47.0	41.36S	172.63E	199 KM	SE	1.2		AVG MAG	4.1
	+-		0.8	0.05	0.06	7					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB	EP	22	44	14.9		1.4	0.28	16	4.3		
		S			34.1		0.2					
	KAI	P	22	44	22		1.3	1.48	218	4.0		
		E			31							
		S			46		-0.7					
		E			53							
	WEL	IP	22	44	23.5	UW	1.6	1.61	88	4.2		
		ES			49		0.2					
	GPZ	EP	22	44	30.0		0.6	2.33	180	3.8		
		E			58							
		S		45	00.7		-1.4					
		E			21							
	TNZ	EP	22	44	31.5		-0.4	2.55	32		3.5	3.1
		E			40							
		S		45	04.5		-2.1					
		E			08							
		E			17							
	TON							3.09	47	4.1		
	KRP	EP	22	44	51.0		0.4	4.10	34			
	TUA	EP?	22	44	53		-0.2	4.30	55			4.1
		E			54.5							
		ES		45	44		-0.4					3.1
	ROX							4.77	209			4.3
	GNZ	EP	22	45	00		-1.4	4.95	59		4.0	
		E			53							
		E(S)		46	00		0.9					

64/ 282

	H	M	S								
AUG 25	23	52	56.2	40.58S	176.17E	12 KM	SE	1.3		AVG MAG	4.5
	+-		0.5	0.02	0.03	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP	23	53	20.7	U	1.1	1.28	236	4.6		
		E			32							
		S			37.2		0.3					
		E			54							
	TON							1.46	340	4.1		
	TUA	IP	23	53	27.9	D	-0.2	1.92	23		4.4	4.5
		E			39							
		S			50.5		-1.1					
		E		54	08							
	WNZ	E(PG)	23	53	35		-0.6	1.95	358		4.6	4.7
		E(SG)		54	01		-0.9					
	TNZ	P	23	53	28.3	U	-0.3	1.96	315		4.8	4.7
		E(PG)			36		0.1					
		E			47							
		ES			51		-1.4					
		E			53							
	GNZ	EP	23	53	34.4		-0.2	2.40	37		4.3	4.7
		E			51							
		E			57							
		E(S)		54	04		0.8					
	COB	E(PG)	23	53	49		-1.0	2.66	258	4.3		
		ES		54	08		-1.8					
		E(S*)			21		3.3*					
	KRP	EP	23	53	37.9		-0.9	2.70	349		4.7	4.2
		E			39							
		E(P*)			46		2.5					
		E			58							
		E(SG)		54	27		-0.2					
	KAI	EP*	23	54	09		2.1	4.07	240	4.6		
		E			14							
		EPG			17		-1.5					
		S			42		-1.6					
	GPZ	E(P)	23	53	58.7		1.5	4.07	219	5.2		
		E(PG)		54	15		-3.5*					
		E			30							
		E			37							
		I			40.7							
		ES			42		-1.6					
	ONE	EP	23	54	11		1.2	5.00	343	3.9		
		ES		55	07		0.9					
	MNW	ES?	23	56	20		-0.6	8.13	227			
		E			24							

64/ 283

	H	M	S								
AUG 27	06	58	16.3	37.71S	177.65E	159 KM	SE	2.4		AVG MAG	4.3
	+-		2.5	0.12	0.09	17					

			H	M	S	DIR	RES	DIST	AZ	W-A	W S
	ECZ	IP	06	58	39.0	U	-1.0	0.71	89	4.4	4.4
		ES			56		-2.2				
		E		59	02.5						
	GNZ	IP	06	58	43.3	D	1.4	0.98	163	4.7	4.9
		E			52						
		ES		59	03		1.4				
		E			11						
	TUA	EP	06	58	45.2		1.6	1.17	200	4.4	4.1
		E			49.5						
		E		59	33						
		E			35						
	KRP	IP	06	58	49.7	U	0.9	1.69	262	4.6	3.7
		E			57						
		E(S)		59	11		-2.9				
	CNZ	E	06	58	58			2.23	227	3.6	3.6

		E		59	00.5						
		E			25						
		E			34						
	TNZ	EP	06	59	07.8		3.6	2.96	239		4.0 3.5
		E			14						
		E			31						
		E			50						
	WEL	EP	06	59	21.2		0.8	4.21	211	4.8	
		I	07	00	08.6						
		ES			10		0.3				
		E			11						
	COB	ES	07	00	32		1.7	5.09	227		
	KAI	ES	07	01	11		0.2	6.78	223	4.8	
		E			13						
	GPZ	ES	07	01	15		-2.9	7.09	211	4.9	
	ROX	ES	07	02	23		-3.1	9.96	216		

64/ 28

	H	M	S						
AUG 27	07	34	19.6	39.24S	179.82E	33 KM	SE 1.5	AVG MAG	4.4
	+-		1.2	0.04	0.06	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ IP	07	34	43.5	U	-0.2	1.52	292		4.7	4.8
	E			52							
	E			56.5							
	E(S)		35	02		0.1					
	ES*			06		-1.5					
	E			08							
	ECZ EP	07	34	47.0	D	-1.1	1.84	327		4.3	
	E			56							
	E		35	03							
	TUA EP	07	34	52.0		-0.0	2.12	281		4.4	4.8
	E			59							
	I		35	08.0							
	E			04							
	E(S)			15		-1.5					
	CNZ IP	07	35	10.6		2.2	3.32	269		4.0	4.3
	E			35							
	E(S)			47		1.3					
	E			55							
	KRP I(P)	07	35	12.2	D	-0.1	3.60	290		3.6	3.7
	E			20							
	E			42							
	E			46							
	E			49							
	TNZ EP	07	35	22.5		1.7	4.23	269		3.7	4.1
	E		36	05							
	E(S)			10		2.3					
	E			23							
	WEL EP	07	35	22.0		-0.8	4.37	240	5.1		
	E		36	05							
	ES			11		-0.3					
	COB E	07	36	06			5.73	249	4.7		
	ES			45		0.8					
	E		37	01							
	GPZ E	07	36	14			6.99	228	5.1		
	ES		37	12		-2.2					
	KAI E(S)	07	37	17		-1.5	7.17	240	5.1		
	E			20							
	ROX E(P)	07	36	42.5		4.8*	9.96	228			
	E(S)		38	26		1.0					
	E			29							

64/ 28

	H	M	S						
AUG 28	16	32	57.7	37.57S	176.41E	243 KM	SE 1.0	AVG MAG	4.1
	+-		0.7	0.03	0.03	5			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	16	33	32.0		1.0	0.77	243		4.9	3.8
	E(S)			57		0.1					
TUA	IP	16	33	35.4	U	0.7	1.36	155		5.1	5.3
	E			58							
	E		34	02.5							
	E			04.5							
GNZ	IP	16	33	37.8	U	0.8	1.66	130		5.9	5.8
	E		34	02							
	S			06.5		-0.8					
ECZ	IP	16	33	37.0	U	-0.3	1.70	95		5.2	5.3
	E			59							
	E		34	06							
	E(S)			07		-0.9					
CNZ	IP	16	33	39.2	U	1.4	1.76	202		4.1	4.2
	E		34	09							
	E			13							
ONE	EP	16	33	44.0		-0.1	2.43	317	3.6		
	E			45							
	E			52							
	ES		34	19		-1.1					
	E			31							
WEL	EP?	16	34	01.0	D	0.2	3.92	198	5.3		
	I			01.4							
	E			42							
	E			49							
	E(S)			50		0.3					
COB	ES	16	35	03		0.4	4.52	218	5.1		
KAI	E	16	34	38			6.26	216	5.1		
	E		35	39.5							
	E(S)			42		0.6					
GPZ	EP	16	34	35.5		-0.3	6.75	204	5.4		
	E		35	49							
	E(S)			51		-1.5					
ROX	EP?	16	35	12		1.0	9.51	212			
	E			16							
	E			18							
	E			23							
	E		36	52							
	E(S)			54		-1.6					

64/ 286

	H	M	S						
AUG 29	07	28	23.9	40.56S	176.36E	12 KM	SE 1.4	AVG MAG	3.8
	+-		0.5	0.03	0.03	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	EP	07	28	50.0		1.1	1.40	238	3.4		
	E			58.5							
	E		29	00.5							
	E			05							
	S			07.5		0.0					
	E			22							
	E			27							
CNZ	IP	07	28	48.0	U	-2.1	1.50	335		4.3	4.2
	ES		29	04		-5.6*					
TUA	EP	07	28	54.8		-0.0	1.86	20		3.8	3.9
	EPG		29	04		2.5					
	ES			17		-0.7					
	E			38							
TNZ	P	07	28	57.0		-0.4	2.05	312		4.1	3.9
	P*		29	02		2.0					
	E			15							
	E(S)			20		-2.2					
	E			35							
GNZ	EP	07	29	01		0.0	2.31	34		3.8	3.8
	E(PG)			10		-0.6					
	E			20							
	E			25							

		E(S)			30		1.5				
		E(SG)			39		-2.8				
		E			54						
	KRP	EP	07	29	07.0		0.4	2.71	346	4.1	3.8
		EP*			12		0.7				
		E(S)			44		5.3*				
		ES*			48		1.0				
	COB	E(S)	07	29	42		1.2	2.80	258	3.5	
		ES*			49		-0.6				
		E(SG)			59		0.8				
	ECZ	ES	07	29	54		0.6	3.33	31		3.3
	GPZ	E	07	30	12			4.17	220	3.9	
		ES			14		0.3				
	KAI	E(S)	07	30	12		-2.4	4.20	241	3.6	
		E			18						
		ES*			32		0.3				
		ESG			45		-0.4				

64/ 287

	H	M	S								
AUG 29	10	51	40.4	38.86S	178.41E	12 KM	SE	2.0	AVG MAG		4.2
	+-		1.0	0.04	0.05	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IPG		10	51	49.2	U	1.0	0.37	306			
		E(SG)				55		1.6					
	TUA	IP*		10	51	58.8	D	0.5	0.98	273		5.0	5.1
		S*			52	10		-1.6					
	ECZ	EP		10	52	02.5		0.2	1.17	5		3.9	4.4
		PG				04.5		0.3					
		ES				14		-4.5					
		E(SG)				21		1.0					
		E				28							
	CNZ	EP		10	52	17.6		0.9	2.25	260		4.2	3.9
		E				20							
		P*				21.8		1.8					
		E(PG)				28		2.0					
		E(S)				44		0.3					
		E(SG)				54		-2.4					
	KRP	EP		10	52	16.8	U	-2.5	2.44	292		4.0	3.7
		P*				23.5		0.2					
		EPG				28		-1.8					
		ES				49		0.7					
		E			53	06							
	TNZ	EP		10	52	31.0		2.0	3.16	263		3.8	
		EP*				39		3.5					
		E(PG)				43		-1.2					
		E				54							
	WEL	EPG		10	52	58		2.8	3.70	228	3.8		
		E			53	01.5							
		E				04							
		ES				18		-0.8					
		E				22							
		ES*				31		-2.2					
		ESG				52		7.0*					
	KAI	E		10	54	34			6.46	233			
	GPZ	ES		10	54	24		-1.9	6.49	220	4.2		

64/ 288

	H	M	S								
AUG 29	10	54	54.2	38.98S	178.47E	12 KM	SE	1.4	AVG MAG		3.3
	+-		2.3	0.07	0.07	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IPG		10	55	05	U	0.7	0.49	314			
		ESG				12		0.9					
	TUA	EP*		10	55	13.9		0.7	1.05	279		3.5	3.3
		S*				25.5		-1.8					
		ESG				30		0.3					3.1
	ECZ	E(SG)		10	55	37		-0.8	1.29	3			

64/ 289

	H	M	S								
AUG 29	13	06	41.9	38.23S	176.14E	220 KM	SE	1.3	AVG MAG		3.6
	+-		1.3	0.08	0.06	11					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP		13	07	09.5		-2.1	0.57	302		3.3	
		I				09.9							
	TUA	EP		13	07	13.7		0.0	0.98	126		3.5	3.4
		E				35.5							
		S				38.7		0.3					
		E				44.5							
	CNZ	EP		13	07	14.8		0.5	1.07	206		2.9	3.0
		S				39.5		-0.0					
	GNZ	EP		13	07	18.3		0.4	1.53	106		3.8	4.0
		ES				46		0.3					
		E				54							
	TNZ	E(P)		13	07	20.5		1.3	1.68	235		3.4	
	ECZ	ES		13	07	53		0.2	1.97	75			3.5
	WEL	P		13	07	35.1	D	-0.6	3.23	199	3.8		
		E			08	14.5							
		S				15.5		-2.0					
	COB	E(S)		13	08	33		1.7	3.88	222	3.8		
	GPZ	E		13	09	15			6.07	205	4.5		
		ES				17		-3.4*					

64/ 290

	H	M	S								
AUG 29	16	03	59.4	38.90S	178.47E	12 KM	SE	2.7	AVG MAG		3.3
	+-		3.1	0.11	0.11	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IPG		16	04	10.8	U	2.4	0.43	306			
		ESG				17		2.6					
	TUA	EP*		16	04	19.9	D	1.7	1.03	275		3.6	3.9
		S*				31.5		-0.6					
	ECZ	ES		16	04	34		-4.4	1.20	3			3.2
		E(SG)				42		1.8					
		E				55							
	CNZ	E(S)		16	05	04		0.3	2.29	262			2.8
		E(SG)				16		-0.8					
	KRP	EP*		16	04	45		1.7	2.50	292		3.1	3.0
		PG				49.5		-0.5					
		ES*			05	12		-4.2					

64/ 291

	H	M	S								
AUG 29	20	05	58.3	38.92S	178.41E	12 KM	SE	2.9	AVG MAG		3.7
	+-		2.7	0.12	0.11	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IPG		20	06	08.8	U	2.0	0.41	312			
		ESG				13		0.5					
		E				15							
	TUA	P		20	06	18.2	D	0.4	0.99	276		4.0	3.7
		ES				30		-2.2					
	ECZ	EP?		20	06	22		1.0	1.23	5			3.2
		E(PG)				26		2.8					
		ES				33		-4.7					
		ESG				40		0.2					

64/ 292

	H	M	S								
AUG 30	09	34	31.9	38.89S	176.37E	89 KM	SE	1.6	AVG MAG		3.7
	+-		1.0	0.05	0.04	12					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TUA	P		09	34	48.0	D	0.2	0.61	83		3.9	3.9
		E				54							
		S			35	00		0.1					
		E				03							
	CNZ	EP		09	34	48.5		-0.3	0.71	244		3.3	3.7
		E				55							
		E(S)			35	01		-0.5					

	E(S)		27	-2.6					
	E(SG)		36	-0.2					
	E		48						
KRP	EP?	23 34 15		-2.1	2.28	313		3.8	3.5
	EP*		21	0.5					
	E(S)		45	0.6					
	ESG		58	0.7					
TNZ	E(P)	23 34 22		1.1	2.55	276		3.9	3.8
	E(P*)		30	4.9					
	PG		34.5	2.5					
	E(SG)		35 07	0.6					
WEL	ES	23 34 58		-0.1	2.83	230	3.6		
GPZ	ES	23 36 03		-2.0	5.62	220	4.0		

64/ 29

	H	M	S								
SEP 02	10	15	27.0	33.94S	178.25E	33 KM	SE	1.7	AVG MAG	4.6	
	+-		2.6	0.17	0.38	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ONE	E			10	16	37			3.68	239			
KRP	I			10	16	39.8			4.54	208		4.2	
TUA	P			10	16	36.5		-1.3	4.94	190			
	ES				17	33		0.7					
CNZ	EP			10	16	50		2.2	5.68	202		3.9	
WEL	EP			10	17	16		-0.8	7.84	200	5.2		
	ES				18	42		0.3					
GPZ	ES			10	19	48		-1.0	10.67	202	5.2		

64/ 29

	H	M	S								
SEP 02	10	57	02.8	38.70S	175.97E	33 KM	SE	1.4	AVG MAG	2.8	
	+-		2.6	0.22	0.17	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EP*			10	57	09		0.4	0.12	54			
	S*					11.5		-1.2					
KRP	ES			10	57	29		0.3	0.85	336			2.8
TUA	ES?			10	57	31		0.4	0.93	97			3.1

64/ 30

	H	M	S								
SEP 03	06	12	43.6	38.92S	175.83E	186 KM	SE	1.8	AVG MAG	4.3	
	+-		1.5	0.10	0.08	11					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP			06	13	09.9		1.2	0.36	218			
	ES					29		0.9					
KRP	IP			06	13	10.0	D	-2.2	1.02	347		4.2	
TUA	EP			06	13	12.5		0.2	1.03	84		4.0	4.3
	E					19							
	ES					33		-1.5					
	E					53						4.3	4.4
GNZ	IP			06	13	19.0	D	0.4	1.73	82			
	ES					45		-0.6					
WEL	IP			06	13	29.9	DSE	2.6	2.51	199	4.9		
	ES				14	02		1.1					
COB	ES			06	14	17		0.9	3.22	227	4.7		
KAI	ES			06	14	52		-2.8	4.93	222	4.6		
GPZ	EP			06	14	04		1.1	5.34	206	5.1		
	ES				15	03		-1.4					

64/

	H	M	S								
SEP 04	07	37	05.4	44.64S	168.11E	33 KM	SE	1.4	AVG MAG	4.3	
	+-		0.8	0.04	0.06	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IPN			07	37	24.9	U	-0.1	1.19	197		5.0	
ROX	IPN			07	37	24.7	D	-0.3	1.19	135		5.2	5.2
	ESN					40		0.3					
KAI	E			07	37	46			3.20	50	4.6		
	EP*?				38	02		0.6					
	ES*					43		-0.4					
GPZ	EPN			07	37	54		-1.3	3.40	75	4.7		

	EP*		38 06		1.1				
	E(S*)		48		-1.4				
COB	EPN	07 38 15			-1.0	4.92	45	4.6	
	ESN		39 09		-1.2				
WEL	E	07 38 35				5.92	58	4.7	
	ESN		39 38		3.5				
TNZ	EPN	07 38 46			-0.5	7.18	43		
TON	E	07 39 01				7.76	48	5.0	
	ESN		40 23		4.7*				
CNZ	EPN	07 38 56			1.7	7.76	48		
	ESN?		40 18		-0.5				
KRP	EPN	07 39 07			-0.2	8.73	42		

64/ 300

	H	M	S								
SEP 04	18	20	51.1	40.26S	173.22E	204 KM	SE	1.4	AVG MAG	4.3	
	+-		1.3	0.10	0.13	15					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P			18	21	22			1.2	0.91	204	3.9		
	E					42							
TNZ	P			18	21	25			0.6	1.40	40		3.6	4.4
	E					46							
WEL	IP			18	21	25.8	USE	-0.1	1.56	132	4.7		
	E					44							
	E					47.5							
TON	P			18	21	31			0.0	2.07	60	4.4		
	E					57							
CNZ	P			18	21	30.9			-0.2	2.08	60		3.9	4.5
	E					54							
KAI	E			18	21	41				2.64	210	4.9		
	S				22	11.2			-1.9					
KRP	P			18	21	41			0.1	2.95	38			4.0
	E				22	13								
GPZ	P			18	21	49			2.0	3.46	187			
	I				22	25.0								
GNZ	P			18	21	53			-1.3	4.05	68		4.5	4.5
	E				22	39								
ROX	P			18	22	18			-0.5	5.95	208			4.0
	E				23	21								

64/ 301

	H	M	S								
SEP 05	02	17	17.0	32.60S	179.72W	448 KM	SE	2.6	AVG MAG	6.2	
	+-		1.4	0.19	0.34	14					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
RAO	EP			02	18	27		-2.9	3.68	25			
	ES				19	10		-17.5*					
GNZ	EP			02	18	56		0.7	6.30	196			
	E					58							
	ES				20	17		4.1					
	E					19							
KRP	EP			02	18	59		0.8	6.57	215			
	E					22							
	ES				20	20		1.9					
TUA	EP			02	18	59		-0.4	6.69	201			
	E				19	01							
	ES				20	15		-5.4					
CNZ	EP			02	19	10		0.5	7.62	209			
	E				20	31							
TON	EP			02	19	11		1.5	7.63	209	6.1		
	ES				20	38		-0.6					
TNZ	EP			02	19	17		2.0	8.12	214			
	ES				20	49		0.6					
WEL	EP			02	19	31		-1.7	9.72	205	6.6		
	E				21	16							
	ES					21		0.6					
COB	ES			02	21	30		-4.1	10.40	213	5.9		
KAI	EP			02	20	03		3.8	12.14	213	5.8		
	ES				22	09		-0.1					

	GPZ	EP	02 20 06		1.9	12.59	206	6.5		
		ES	22 15		-3.0					
	ROX	EP	02 20 33		-0.3	15.40	210			
		ES	23 12		0.0					

64/ 30

	H M S									
SEP 06	23 42 12.5	40.56S	173.52E	163 KM	SE 1.7			AVG MAG	4.7	
	+_ 0.8	0.05	0.06	8						
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	COB IP	23 42 38.8		W	1.7	0.80	229	4.6		
	ES	56			-0.2					
	WEL IP	23 42 43.6		DSW	3.3	1.19	128	5.1		
	ES	43 02			0.3					
	TNZ IP	23 42 44.7		D	1.1	1.53	26		4.7	4.5
	ES	43 05			-2.5					
	CNZ IP	23 42 50.6		D	1.1	2.07	49		4.4	4.5
	E	43 05								
	KAI EP	23 42 57			1.9	2.52	218	4.6		
	ES	43 27			-0.7					
	KRP EP	23 43 02			0.2	3.06	31		4.2	
	E	09								
	E	28								
	GPZ EP	23 43 04.5			1.0	3.20	191	5.4		
	ES	40			-2.7					
	TUA EP	23 43 05			0.1	3.30	59		4.5	4.8
	ES	43			-2.1					
	GNZ IP	23 43 13.4		D	-0.1	3.97	63		5.1	5.1
	E	54								
	ES	44 00			-0.4					
	ECZ					4.84	55		4.1	4.5
	ROX EP	23 43 37			-0.4	5.80	211		4.2	4.4
	ES	44 38			-5.4*					
	MNW ES	23 45 05			-1.5	6.77	218			

64/ 30

	H M S									
SEP 08	23 31 59.3	39.59S	176.22E	12 KM	SE 2.4			AVG MAG	4.2	
	+_ 0.7	0.04	0.06	R						
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ IPN	23 32 12.4		U	-2.3	0.65	307		4.0	
	TON					0.66	306	4.2		
	WNZ EPN	23 32 19			0.5	0.96	354		4.4	4.4
	ESN	33			0.3					
	TUA EPN	23 32 18.5			-1.4	1.06	43		4.2	4.7
	EP*	20			1.4					
	ESN	35			0.0					
	TNZ EPN	23 32 24			-1.4	1.48	285		4.0	4.1
	E	34								
	ESN	44			-0.8					
	GNZ EPG	23 32 34			0.4	1.69	57		4.5	
	KRP IPN	23 32 26.9		U	-2.0	1.75	342		4.1	3.9
	E(SG)	33 00			1.6					
	WEL EP*	23 32 34			-1.1	2.03	213	4.0		
	SN	52.5			-4.6					
	COB EP*	23 32 56			3.3	3.06	240	4.1		
	ESN	33 26			3.8					
	KAI ESG?	23 34 34			-2.8	4.67	230	4.3		
	GPZ EPN?	23 33 13			1.5	4.90	212	4.4		
	ESG	34 48			3.6					

64/ 30

	H M S									
SEP 11	16 27 14.9	38.53S	175.85E	210 KM	SE 0.9			AVG MAG	4.2	
	+_ 2.0	0.05	0.07	19						
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	KRP IP	16 27 42.9			-1.1	0.65	338		4.0	3.8
	E	28 04.5								
	CNZ IP	16 27 44.9			0.7	0.71	199		3.7	3.4
	E	28 08								

TUA	EP	16 27 46.5		0.2	1.06	106		4.3	4.4
	E	28 09							
TNZ	EP	16 27 49		0.8	1.32	240		3.6	
GNZ	IP	16 27 51.7	D	-0.0	1.71	95		4.9	4.4
	E	28 16							
WEL	EP	16 28 04		-0.2	2.88	196	4.2		
	ES	42		-0.4					
COB	E	16 28 53			3.50	222	4.2		
KAI	E	16 29 29			5.23	219	4.5		
GPZ	E	16 28 38			5.70	204	4.8		
	E	29 40							

64/ 305

	H M S									
SEP 11	21 05 22.9	40.09S	174.96E	12 KM	SE 3.2			AVG MAG	3.9	
	+_ 0.9	0.06	0.08	R						
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ IP*	21 05 39.4			-1.6	1.00	27		4.0	4.0
	E(S*)	50			-4.5					
	TNZ EPN	21 05 42			-0.7	1.01	333		3.7	3.7
	E(S*)	57			2.2					
	WEL EPN	21 05 45			-0.3	1.21	187	3.9		
	ESN	06 01			-0.9					
	COB E(PG)	21 06 04			1.3	1.97	239	3.5		
	ESN	20			0.7					
	TUA E(P*)	21 06 00			-0.3	2.12	54		3.7	3.7
	E(SG)	38			3.5					
	KRP EPN	21 05 57			-1.6	2.21	12		4.0	4.1
	ES*	06 29			-1.8					
	GNZ E(P*)	21 06 16			4.5	2.78	60		3.9	
	KAI E(P*)	21 06 31			5.1	3.62	227			
	GPZ ESN	21 07 03			-5.5	4.00	205	4.1		

64/ 306

	H M S									
SEP 12	19 51 30.6	39.50S	175.87E	12 KM	SE 1.6			AVG MAG	4.2	
	+_ 0.5	0.05	0.04	R						
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ IPG	19 51 41.3		D	2.5	0.39	320			
	TNZ IPN	19 51 52.0		D	-0.9	1.20	285		4.4	4.2
	ESN	52 08			-1.4					
	TUA EPN	19 51 52.5			-0.6	1.21	56		4.3	
	P*	54.6			2.2					
	KRP EPN	19 51 56.5			-1.6	1.59	350		3.9	
	GNZ EPN	19 52 01.5			-0.4	1.88	64		4.2	
	EPG	08			-0.7					
	E	13								
	E	53 57								
	WEL EPN	19 52 02			-1.1	1.97	205		3.9	
	COB EPN	19 52 16			0.4	2.88	236	4.0		
	ESN	49			-0.4					
	KAI E	19 52 46				4.53	227	4.2		
	ESN	53 31			1.9					

64/ 307

	H M S									
SEP 12	22 07 05.2	49.23S	164.61E	33 KM	SE 2.5			AVG MAG	6.8	
	+_ 1.2	0.27	0.33	R						
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	MNW EP	22 08 00			-3.4	4.01	32			
	ROX IP	22 08 12.9		UNE	-3.1	4.93	42			
	E(S)	09 12			1.6					
	MCQ IP	22 08 34			-0.8	6.33	211			
	GPZ EP	22 08 53			-2.0	7.84	48	6.9		
	ES	10 18			-2.0					
	KAI E	22 08 40				8.21	38	6.8		
	ES	10 31			2.1					
	COB P	22 09 21.5			-1.7	9.96	38			
	ES	11 08			-2.5					
	EL	12 03								

	WEL	EP	22 09 35.2	UE	2.4	10.69	46				
		ES	11 27		-0.6						
		EL	12 18								
	TNZ	EP	22 09 53		0.0	12.24	38				
		ES	12 15		11.3*						
	CNZ	EP	22 10 04		4.8	12.72	42				
		E	12 25								
	WNZ	E	22 10 23			13.43	42				
	TUA	EP	22 10 15		2.6	13.76	45				
		E	19								
		E	12 46								
	KRP	EP	22 10 12		-0.6	13.78	39				
		E	13 17								
	GNZ	EP	22 10 20		0.8	14.31	47				
		E	12 58								
	ONE	EP	22 10 33		2.2	15.23	32				
		E	14 09								

64/ 3

	H M S									
SEP 12	22 42 41.0	37.44S	177.25E	275 KM	SE	1.6	AVG MAG	4.4		
	+- 1.4	0.10	0.08	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ EP	22 43 19.5		0.2	1.06	104		4.4	4.5	
	E	49								
	GNZ IP	22 43 22.1	D	0.9	1.35	153		5.1	5.3	
	E	47								
	ES	53		1.0						
	TUA EP	22 43 21		-0.3	1.37	183		4.2	4.7	
	ES	50		-2.3						
	KRP IP	22 43 18.9	U	-2.9	1.44	250		4.0	3.8	
	E	49								
	CNZ EP	22 43 28		0.3	2.21	217		3.8	3.8	
	ES	44 06		1.9						
	TNZ EP	22 43 35		1.0	2.85	231		3.9	3.8	
	ES	44 17		1.7						
	WEL EP	22 43 50.5		0.6	4.30	206	5.1	3.4		
	ES	44 43		-0.7						
	COB ES	22 44 58		-1.7	5.06	222	5.0			
	KAI E	22 45 23			6.78	220	5.0			
	GPZ EP	22 44 26		1.3	7.16	208	5.2			
	ES	45 45		-1.1						

64/ 3

	H M S									
SEP 16	10 20 30.6	41.66S	174.25E	33 KM	SE	1.9	AVG MAG	3.4		
	+- 0.8	0.06	0.06	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL IP	10 20 39.8		-1.4	0.54	46	3.9			
	ES	47		-1.9						
	COB EP	10 20 49.5		-1.9	1.28	296	3.5			
	ES	21 05		-2.0						
	KAI ES	10 21 33		1.6	2.28	247	3.3			
	E	38								
	GPZ ES	10 21 33		0.0	2.35	210	3.1			
	TNZ ES	10 21 38		1.9	2.48	2				3.4
	TON E	10 21 31			2.65	22				
	CNZ EP	10 21 12		1.8	2.65	22		3.5	3.5	
	ES	41		0.7						
	KRP EP*?	10 21 39		1.0	3.86	15		3.3		

64/ 3

	H M S									
SEP 17	01 04 02.9	40.56S	173.48E	146 KM	SE	2.2	AVG MAG	4.1		
	+- 1.0	0.06	0.08	11						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	COB EP	01 04 28		2.3	0.77	227	3.7			
	ES	44		0.8						
	WEL EP	01 04 32		2.4	1.22	127	3.5			
	ES	50		-0.1						

	TNZ	IP	01 04 34.6	U	1.6	1.54	27		3.7	4.0
		ES	55		-1.0					
	TON	EP	01 04 40		0.8	2.09	50	4.4		
		ES	05 04		-3.1					
	CNZ	IP	01 04 40.3		1.0	2.09	50		3.9	4.4
		ES	05 08		0.8					
	KAI	EP?	01 04 47		2.5	2.50	218	3.9		
		ES	05 15		-1.3					
	KRP	EP	01 04 52		0.1	3.08	32		3.5	3.7
		E	05 02							
		ES	25		-4.3					
		E	44							
	GPZ	EP	01 04 54		0.7	3.19	191	4.9		
		ES	05 29		-2.9					
	TUA	EP	01 04 57		1.8	3.33	59		3.7	4.1
		E	05 24							
		ES	35		-0.2					
	GNZ	EP	01 05 05		1.1	4.00	63		4.1	4.5
		E	43							
	ROX	ES?	01 06 30		-3.2	5.78	210			4.0

64/ 311

	H M S									
SEP 17	06 29 34.4	40.07S	175.08E	33 KM	SE	2.3	AVG MAG	3.6		
	+- 0.9	0.05	0.08	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ IP	06 29 48.4	U	-2.3	0.94	23		4.2	4.0	
	ES	30 00		-2.6						
	TNZ EP	06 29 51		-0.9	1.04	329		3.4	3.6	
	ES	30 06		1.1						
	WEL EP	06 29 54		-0.6	1.24	191	3.1			
	ES	30 10		0.2						
	TUA EP	06 30 08		2.2	2.04	53		3.4	3.7	
	E	36								
	COB ES	06 30 29		-0.6	2.05	240	3.1			
	KRP EP	06 30 11		3.5	2.17	10		3.6	3.7	
	E	37								
	KAI E	06 31 23			3.69	227	3.5			
	GPZ E	06 31 15			4.05	206	3.6			

64/ 312

	H M S									
SEP 17	07 53 25.1	33.53S	179.87W	33 KM	SE	1.2	AVG MAG	4.3		
	+- 2.2	0.10	0.28	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ EP	07 54 41		-0.9	5.38	198		4.5	4.6	
	ES	55 42		0.9						
	KRP EP	07 54 48		1.0	5.76	219		4.1		
	TUA EP	07 54 48		0.6	5.79	204		4.0	4.2	
	ES	55 50		-0.9						
	CNZ E	07 55 51			6.76	212				
	TNZ EP	07 55 07		-0.8	7.30	218				

64/ 313

	H M S									
SEP 18	20 43 23.5	37.97S	176.20E	318 KM	SE	1.2	AVG MAG	4.3		
	+- 1.4	0.08	0.11	12						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP	20 44 03.5		-0.9	0.53	274		4.0		
	TUA EP	20 44 06		-0.7	1.12	139		4.0	4.2	
	ES	39		-1.4						
	GNZ EP	20 44 09		-0.4	1.58	116		4.3	4.3	
	E	38								
	ECZ E	20 44 43			1.88	82			4.1	
	ES	50		1.4						
	TNZ EP	20 44 12.5		1.2	1.88	229		3.9		
	WEL EP	20 44 26		0.1	3.50	198	4.6			
	ES	45 16		1.3						
	GPZ EP	20 44 58		0.2	6.32	204	4.9			
	ES	46 11		-0.8						

SEP 20 · H M S 11 33 21.7 (ND) · 34.48S (ND) · 176.26W (ND) · 166 KM (ND) · SE ND · AVG MAG 5.3 · 64/ 3[illegible]

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EP	11 34 52		0.0	6.20	226			
	E	36 05							
TUA	E	11 35 03			6.83	229			
	E	36 20							
KRP	E	11 35 21			7.47	240			
WEL	ES	11 37 28		-0.0	9.82	224	5.5		
KAI	ES	11 38 32		0.0	12.55	227	5.0		
GPZ	E(S)	11 38 33		0.0	12.60	220	5.3		
	E	41							

SEP 21 · H M S 14 12 28.1 +_ 0.6 · 39.10S 0.04 · 175.26E 0.04 · 12 KM R · SE 1.9 · AVG MAG 3.8 · 64/ 3[illegible]

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	E(P*)	14 12 34.7	D	1.3	0.25	115			
	E	42							
TNZ	E(P*)	14 12 42		1.1	0.69	262		3.9	3.6
	E(S*)	53		2.6					
WNZ	E	14 12 50			0.81	55		3.9	4.1
	ESG?	58		2.5					
KRP	IPN	14 12 48.2		-2.1	1.19	11			4.3
	ESN	13 04		-2.7					
TUA	EP*?	14 12 55		0.1	1.50	80		3.7	
	EPG	58		-0.6					
GNZ	E(PG)	14 13 13		0.3	2.21	79		4.0	
WEL	EP*	14 13 08		0.9	2.22	190	3.5		
	ES*	36		-0.4					
COB	ES*	14 13 53		-0.1	2.77	223	3.5		
KAI	ESN	14 14 20		-5.9*	4.50	219	3.7		
GPZ	ESN	14 14 35		-2.8	5.00	202	3.9		

SEP 22 · H M S 00 13 46.0 +_ 0.8 · 40.96S 0.06 · 174.86E 0.07 · 12 KM R · SE 2.1 · AVG MAG 3.9 · 64/ 3[illegible]

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IPG	00 13 55.5		2.3	0.34	192	3.7		
	E	14 02							
COB	E(P*)	00 14 17		2.3	1.62	265	3.5		
	ES	35		0.7					
TNZ	EP	00 14 16		-0.3	1.81	348		4.2	
CNZ	P	00 14 15.7		-1.0	1.83	17		4.2	4.1
	ESG	50		2.1					
KAI	E(PG)	00 14 46		-1.1	3.02	238	3.7		
	ES	15 06		-2.0					
KRP	EP	00 14 31		-2.5	3.07	10		4.1	
	E	43							
GPZ	E	00 14 27			3.19	210	4.0		
	S	15 06.5		-5.6*					
GNZ	EP*?	00 14 46		1.5	3.36	48		4.0	
	E(PG)	52		-1.9					

SEP 23 · H M S 03 08 33.0 +_ 7.3 · 38.60S 0.30 · 178.18E 0.55 · 33 KM R · SE 3.0 · AVG MAG 3.3 · 64/ 3[illegible]

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP*	03 08 37.6	U	-1.2	0.13	252			
	E	44							
ECZ	ES	03 09 00		-1.5	0.95	18			3.1
CNZ	EP	03 09 05		-0.6	2.14	253		3.3	
KRP	EP	03 09 08.5		2.2	2.19	287		3.3	

SEP 23 · H M S 18 22 45.8 +_ 1.6 · 38.64S 0.16 · 176.01E 0.10 · 12 KM R · SE 3.1 · AVG MAG 3.7 · 64/ 318

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	IPG	18 22 46.0	U	-2.4	0.07	86			
KRP	IPG	18 23 02.2	U	0.0	0.80	332		3.6	
TNZ	EPG	18 23 14.5		0.6	1.39	246		3.5	
GNZ	EPG	18 23 19.5		1.8	1.57	91		3.8	

SEP 24 · H M S 15 14 20.8 +_ 0.9 · 38.46S 0.09 · 175.98E 0.07 · 33 KM R · SE 1.7 · AVG MAG 3.2 · 64/ 319

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EP	15 14 26		-1.6	0.19	151			
	E	27							
KRP	EP	15 14 33		0.2	0.64	327		3.4	
TON	EP	15 14 37.5		2.3	0.82	205			
TUA	EP	15 14 37.5		0.0	0.98	111		3.0	
TNZ	EP	15 14 44		0.2	1.44	239		3.4	3.1
	ES?	15 00		-1.2					

SEP 25 · H M S 11 03 05.8 +_ 0.9 · 41.70S 0.03 · 171.52E 0.06 · 33 KM R · SE 1.5 · AVG MAG 4.3 · 64/ 320

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	P*	11 03 20.8		-1.0	0.83	186	4.6		
	I	31.7							
	S*	33.2		-0.1					
COB	IP*	11 03 23.8	E	-2.4	1.10	56	4.6		
	S*	38		-3.2					
GPZ	EPN	11 03 38.5		-0.2	2.16	158	4.1		
	P*	45		0.9					
	ESN	04 04		0.5					
	ES*	12		-0.7					
WEL	PN	11 03 44		1.0	2.47	81	4.3		
	IP*	49		-0.5					
	ESN	04 14		2.8					
	ES*	22		-0.1					
TNZ	EPN	11 03 56		1.2	3.33	42		4.0	4.2
	EP*	04 05		0.9					
	I	29.5							
	ES*	49		1.2					
TUA	EP	11 04 25		4.9*	5.19	58		4.4	4.3
	E	47							
	ESN	05 17		-0.2					
GNZ	EP*	11 04 47		-0.1	5.84	61		4.3	
	E	05 13							

OCT 02 · H M S 03 19 14.0 +_ 1.2 · 49.89S 0.09 · 164.90E 0.09 · 33 KM R · SE 0.6 · AVG MAG 4.4 · 64/ 321

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	03 20 19		0.1	4.50	25		4.6	4.3
	ES	21 09		0.3					
ROX	EP	03 20 30		-0.1	5.33	36		4.2	4.2
	ES	21 28		-0.7					
GPZ	ES	03 22 37		0.5	8.16	44	4.9		

OCT 02 · H M S 10 32 53.1 +_ 1.1 · 47.86S 0.37 · 163.57E 0.21 · 236 KM 14 · SE 0.6 · AVG MAG 4.3 · 64/ 322

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	10 33 51		0.4	3.47	55		4.6	4.2
	ES	34 35		-0.2					
ROX	P	10 34 04		-0.4	4.62	61		4.2	3.9
	ES	35 00		0.2					

		GPZ	ES	10 36 07		0.0	7.59	60	4.8		
											64/ 326
		H M S									
OCT 04	09 21 00.7			38.70S	175.73E	12 KM	SE	2.5		AVG MAG	3.4
	+- 1.0			0.06	0.05	R					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
		WNZ	PG	09 21 09		1.8	0.30	78			
			ESG	15		3.5					
		KRP	IPG	09 21 15.9		-0.8	0.79	349		3.7	3.4
			SG	27		-0.4					
		TUA	EPG	09 21 22		-1.4	1.12	96		3.4	3.3
			ESG	35		-3.6					
		TNZ	EPG	09 21 24		-0.1	1.16	245		3.4	2.8
			E	43							
		WEL	EPG	09 21 56		0.9	2.69	196			
											64/ 327
		H M S									
OCT 04	16 43 35.0			38.67S	178.14E	101 KM	SE	2.0		AVG MAG	4.8
	+- 2.0			0.10	0.12	11					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
		GNZ	P	16 43 48.0		-1.2	0.09	285			
			I	51							
			ES	44 00		0.0					
			E	01							
		TUA	IP	16 43 52.8		-0.7	0.78	259		5.1	4.8
			S	44 08		0.4					
		ECZ					1.03	18		4.7	5.3
		KRP	EP	16 44 12		1.5	2.18	289			
		TNZ	P	16 44 21.0		-0.5	2.97	259		4.0	
		WEL	P	16 44 30		-1.1	3.68	224	4.8		
			S	45 17		3.4					
		COB	ES	16 45 41		-0.4	4.81	238	4.7		
		KAI	ES	16 46 18		-2.6	6.41	231	4.8		
		GPZ	EP	16 45 12		2.3	6.51	218	4.9		
			S	46 22		-1.1					
											64/ 328
		H M S									
OCT 05	09 32 24.6			38.10S	177.26E	33 KM	SE	3.1		AVG MAG	3.8
	+- 1.9			0.13	0.09	R					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
		TUA	EP	09 32 38		0.4	0.71	187		3.6	3.7
			E	51							
		GNZ	P	09 32 35.8		-3.1	0.80	132		3.5	4.1
			S	50.0		0.6					
		ECZ					1.09	68		3.9	4.2
		KRP	P	09 32 44.8		-1.9	1.38	277		3.4	3.3
			S	33 03		-0.3					
		TNZ	E(P)	09 33 04		1.8	2.50	244		3.7	
		WEL	E(P)	09 33 24		5.2	3.72	210	4.2		
			ES	34 01		0.7					
		COB	E(S)	09 34 36		14.4*	4.60	228	3.9		
		GPZ	ES	09 35 06		-3.6	6.59	211	4.6		
											64/ 328
		H M S									
OCT 06	01 34 42.0			47.62S	164.58E	99 KM	SE	1.3		AVG MAG	5.1
	+- 1.9			0.17	0.17	17					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
		MNW	P	01 35 27.0		1.2	2.78	50		5.0	5.3
			I	28							
			ES	58		-0.7					
		ROX	P	01 35 41		-0.2	3.91	58		4.4	5.1
			ES	36 26		-0.2					
		GPZ	EP	01 36 21		-0.9	6.88	58	4.8		
			E	37 05							
			E	16							
			E	32							
			ES	40		0.8					

			E	52							
		KAI	ES	01 37 44		1.3	7.02	46	5.1		
		COB	ES	01 38 24		-1.2	8.76	45	5.3		
											64/ 327
		H M S									
OCT 06	21 39 22.9			40.71S	174.23E	119 KM	SE	2.1		AVG MAG	4.7
	+- 0.9			0.07	0.07	13					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
		WEL	IP	21 39 45.3	USE	2.8	0.70	145	4.3		
			S	58		0.5					
		COB	IP	21 39 48.1	E	0.8	1.19	251	4.8		
			S	40 04		-1.8					
		TNZ	P	21 39 51.8		0.6	1.53	4		4.9	
			E	40 08							
			E	10							
		KAI	EP	21 40 11		3.7	2.78	228	4.5		
			E	14							
			ES	39		-1.9					
		TUA	EP	21 40 09		-0.6	2.95	51		4.7	4.4
			I	16							
			E	37							
			E	42							
		KRP	P	21 40 10.3		0.5	2.97	20		5.0	4.9
			E	45							
		GPZ	EP	21 40 14		1.2	3.20	201	5.1		
			S	48		-2.7					
		GNZ	P	21 40 17.1		-0.8	3.59	56		4.9	4.7
			ES	58		-1.9					
		ECZ	P	21 40 30		-0.4	4.51	49		4.2	
											64/ 328
		H M S									
OCT 07	03 44 36.4			39.01S	175.53E	142 KM	SE	1.6		AVG MAG	4.4
	+- 1.1			0.05	0.05	12					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
		TNZ	P	03 45 02.2	U	2.4	0.91	259		4.4	
		KRP	P	03 45 02.0		0.6	1.08	0		4.2	3.8
			S	19		-1.6					
		TUA	P	03 45 04.2		0.8	1.28	81		4.1	4.1
			S	23		-1.1					
		GNZ	IP	03 45 12.8	D	1.6	1.98	80		5.1	4.8
			S	38		0.2					
		WEL	P	03 45 16.9		1.1	2.35	194	4.2		
			S	46		0.1					
		ECZ	P	03 45 21		0.4	2.71	62		4.4	4.2
			ES	53		-1.3					
		COB	EP	03 45 25		0.9	2.98	225	4.3		
			S	46 01		0.5					
		KAI	ES	03 46 38		-2.8	4.70	220	4.6		
		GPZ	EP	03 45 51		-1.7	5.16	204	5.2		
			S	46 47		-4.7*					
											64/ 329
		H M S									
OCT 07	22 02 38.3			42.08S	174.36E	33 KM	SE	4.2		AVG MAG	4.0
	+- 1.9			0.10	0.14	R					
				H M S	DIR	RES	DIST	AZ	W-A	W P	W S
		WEL	P*	22 02 51.0		-3.6	0.85	21	4.0		
			S*	03 00		-6.3					
		COB	P*	22 03 06		-0.6	1.57	308	3.7		
			ES*	27		-0.6					
		GPZ	EP*	22 03 15		0.2	2.05	217	3.4		
			S*	42		0.1					
		TUA	EP*	22 03 49		2.7	3.90	34		4.3	
		KRP	P*	22 03 54		1.8	4.24	13		4.3	4.5
			ES*	04 54		6.3					

	H M S								64/ 33
OCT 08	22 48 34.0	38.13S	176.01E	300 KM	SE 0.9		AVG MAG		5.1
	+- 0.6	0.05	0.04	5					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP IP		22 49 12.3	U	-0.3	0.43	299			
TUA P		22 49 15		-0.3	1.12	127		5.0	5.4
S		47		-0.4					
TNZ P		22 49 20		1.4	1.65	230		4.1	4.4
S		53		-0.1					
GNZ P		22 49 19.2	U	0.6	1.66	108		5.2	5.7
E		49							
S		54		0.8					
ECZ IP		22 49 20.2	U	-1.3	2.05	78		5.4	5.4
E		53							
S		58		-0.5					
WEL P		22 49 34.0		0.8	3.29	197	5.7		
S		50 20		0.7					
COB EP		22 49 40		0.5	3.89	220	5.2		
S		50 30		-0.6					
KAI EP		22 50 00		0.6	5.62	217	5.4		
S		51 05		-1.3					
GPZ EP		22 50 06		0.7	6.11	204	6.1		
S		51 16		-0.8					
ROX P		22 50 38.0		-1.1	8.87	212			
S		52 18		0.5					

	H M S								64/ 33
OCT 09	03 34 01.9	38.24S	176.00E	203 KM	SE 1.6		AVG MAG		4.1
	+- 1.6	0.08	0.08	16					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP P		03 34 30		0.6	0.48	311			
TUA P		03 34 30		-2.5	1.06	122		4.1	4.1
ES		55		-1.3					
TNZ EP		03 34 37		0.2	1.58	233		3.8	
E		41							
GNZ P		03 34 39		1.7	1.64	105		4.2	4.2
E		35 03							
S		06		1.3					
ECZ EP		03 34 41		-0.8	2.09	76		3.6	3.7
ES		35 13		0.4					
WEL ES		03 35 36		1.0	3.18	197	4.2		
GPZ ES		03 36 38		-0.6	6.01	204	4.5		

	H M S								64/ 33
OCT 09	22 00 19.6	49.73S	164.43E	33 KM	SE 1.3		AVG MAG		4.7
	+- 2.0	0.16	0.20	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW P		22 01 24		-0.5	4.50	30		4.8	4.8
S		02 15		0.8					
ROX EP		22 01 35		-1.5	5.39	40		4.4	4.8
ES		02 36		0.3					
E		47							
GPZ EP		22 02 17		1.9	8.26	46	5.1		
ES		03 44		-0.5					
KAI ES		22 03 54		-0.5	8.68	37	4.9		

	H M S								64/ 33
OCT 11	08 33 50.2	33.79S	178.91W	33 KM	SE 3.9		AVG MAG		4.8
	+- 5.2	0.25	0.53	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ P		08 34 56		2.1	4.41	207		4.5	4.5
ES		35 46		3.2					
E		52							
GNZ P		08 35 09		1.2	5.45	206		4.6	
ONE P		08 35 13		-0.7	5.88	248			
TUA EP		08 35 07		-7.4	5.94	211		4.5	4.7

S	36 16		-3.5					
KRP EP	08 35 20		3.1	6.12	226			
TNZ EP	08 35 39		1.7	7.63	223			
WEL S	08 37 31		-2.1	9.01	212	5.4		
GPZ ES	08 38 43		2.5	11.88	211	5.4		

	H M S								64/ 334
OCT 11	15 46 15.1	49.61S	164.46E	33 KM	SE 1.9		AVG MAG		4.4
	+- 3.4	0.28	0.29	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW P		15 47 19		0.6	4.38	30		4.5	4.3
S		48 06		-1.0					
ROX P		15 47 30		-0.6	5.28	40		4.1	4.2
S		48 27		-1.7					
GPZ ES		15 49 38		0.3	8.16	47	4.9		
KAI ES		15 49 50		2.5	8.57	37	4.6		

	H M S								64/ 335
OCT 13	17 29 28.7	38.54S	175.62E	12 KM	SE 1.2		AVG MAG		3.2
	+- 0.5	0.03	0.02	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ PG		17 29 36		-0.8	0.39	103			
SG		43		0.7					
KRP IPG		17 29 41.5		0.0	0.62	354		3.1	3.1
E(S)		55		0.3					
TNZ EPG		17 29 51		-1.3	1.16	236		3.4	3.1
SG		30 09		1.0					

	H M S								64/ 336
OCT 13	19 12 45.7	37.84S	176.34E	221 KM	SE 1.2		AVG MAG		4.1
	+- 1.7	0.08	0.09	14					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP P		19 13 16.0		0.0	0.64	262		3.6	
TUA E(P)		19 13 17		-1.9	1.16	147			3.9
ES		45		0.3					
GNZ P		19 13 22.8		0.8	1.55	122		4.1	4.3
S		49.8		-0.2					
TNZ E		19 13 31			2.05	228		3.8	3.5
E		14 06							
WEL P		19 13 46		1.3	3.65	199	4.4		
S		14 31		0.7					
KAI ES		19 15 23		-0.1	6.02	217	4.5		
GPZ ES		19 15 33		-1.0	6.49	204	4.8		

	H M S								64/ 337
OCT 14	02 02 59.2	37.86S	177.10E	33 KM	SE 4.4		AVG MAG		4.1
	+- 1.9	0.14	0.09	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA EP		02 03 17		1.4	0.95	178		3.7	4.2
S		33		5.4					
GNZ IP		02 03 15	U	-2.2	1.07	138		4.6	4.8
S		30		-0.5					
ECZ P		02 03 15		-3.3	1.16	82		4.3	4.2
E(S)		33		0.4					
KRP P		02 03 19		-0.5	1.24	266		3.4	3.1
ES		35		0.4					
TNZ P		02 03 39.0		2.1	2.51	237		4.0	
WEL P		02 04 03		7.4	3.87	207	4.5		
S		36		-2.7					
I		54							
GPZ ES		02 05 40		-7.8	6.74	209	4.6		

	H M S								64/ 338
OCT 14	02 21 32.9	44.93S	166.04E	33 KM	SE 1.2		AVG MAG		4.7
	+- 2.4	0.06	0.13	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ROX	P	02	22	09		0.2	2.38	104			4.8
		ES			36		-0.0					
	KAI	E	02	22	55			4.57	60	4.5		
		ES		23	31		1.7					
		E			40							
	GPZ	P	02	22	43		-0.2	4.90	78			
	COB	E	02	23	06			6.23	54	4.8		
		ES		24	08		-1.3					
	WEL	ES	02	24	35		-1.0	7.35	63	4.9		
	TNZ	ES	02	25	03		0.7	8.45	50			

64/ 33

	H	M	S						
OCT 14	16	59	52.3	41.94S	171.76E	12 KM	SE	1.0	AVG MAG 3.4
	+-		0.5	0.02	0.04	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	P*	17	00	04		-0.3	0.64	204	3.5		
	S*			13		-0.2					
COB	P*	17	00	14		1.4	1.12	41	3.6		
	S*			29		1.2					
GPZ	EPG	17	00	30		-0.2	1.87	160	3.0		
	S*			51		0.8					
WEL	EPN	17	00	29		-0.9	2.35	75	3.3		
	S*		01	04		-0.6					
TNZ	EPG	17	01	01		-0.1	3.40	37			3.6
	ESG			46		-1.0					
	E			57							

64/ 34

	H	M	S						
OCT 14	20	05	47.6	38.35S	176.23E	144 KM	SE	1.6	AVG MAG 4.3
	+-		1.2	0.07	0.05	10			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	20	06	09.8		0.2	0.69	308		3.8	3.4
	ES			25		-1.5					
TUA	P	20	06	13		2.2	0.86	123		4.3	4.4
	S			29		0.3					
GNZ	P	20	06	17.2		0.7	1.44	102		4.2	4.8
	S			38		-0.5					
TNZ	P	20	06	22		3.1	1.67	239		4.1	3.7
	E			49							
ECZ	IP	20	06	22.0	U	-0.0	1.94	71		4.7	4.2
	S			47		-1.5					
WEL	P	20	06	38		0.7	3.14	200	4.7		
	S		07	15		-0.4					
COB	S	20	07	32		0.3	3.84	223	4.5		
KAI	ES	20	08	11		-1.6	5.56	220	4.4		
GPZ	EP	20	07	13		-2.0	5.99	206	5.1		
	S		08	18		-4.9*					

64/ 35

	H	M	S						
OCT 15	05	43	50.0	38.66S	175.77E	12 KM	SE	1.3	AVG MAG 3.4
	+-		0.4	0.02	0.02	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	05	43	55.0		-0.7	0.26	83			
	SG			59.0		-0.5					
	I		44	05							
KRP	IPG	05	44	05.0	U	-0.5	0.76	346		4.0	3.4
	SG			16		0.2					
TUA	PG	05	44	11		-1.1	1.09	98		3.5	3.4
	ESG			28		1.2					
TNZ	PG	05	44	14.5		0.0	1.21	244		3.9	3.4
	E			35							
GNZ	EPG	05	44	26		0.3	1.76	90		3.6	3.4
	E		45	01							
WEL	(P)	05	44	35		2.0	2.73	196	3.6		
	ES*		45	15		1.2					
	ESG			20		-2.2					

64/ 342

	H	M	S						
OCT 15	11	05	11.9	32.88S	179.59W	439 KM	SE	1.3	AVG MAG 5.7
	+-		1.5	0.15	0.26	13			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P	11	06	46		-1.4	6.07	198			
	I			51							
	ES		08	03		0.3					
KRP	P	11	06	51		-0.1	6.41	217			
TNZ	P	11	07	10		2.0	7.96	216			
WEL	P	11	07	25		-0.4	9.52	207	5.8		
	S		09	12		0.8					
COB	ES	11	09	24		-1.6	10.23	215	5.5		
KAI	ES	11	10	01		-0.1	11.97	214	5.5		
GPZ	EP?	11	07	57		-0.2	12.39	207	5.8		
	ES		10	10		0.6					

64/ 343

	H	M	S						
OCT 15	16	25	13.7	40.28S	173.52E	194 KM	SE	2.0	AVG MAG 4.1
	+-		1.5	0.08	0.10	14			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	16	25	45.3		2.2	1.01	216	4.0		
	S		26	06		0.2					
TNZ	P	16	25	46.5		1.3	1.28	31		4.0	
	E		26	09							
WEL	P	16	25	49.0		2.9	1.38	137	3.9		
	S		26	11		-0.1					
KAI	E	16	26	08			2.75	215	4.2		
	S			35		-2.0					
KRP	E	16	26	12			2.82	34		3.7	3.4
	ES			36		-2.6					
TUA	P	16	26	06		0.4	3.17	63		4.2	4.3
	ES			45		-0.6					
GPZ	EP	16	26	10		0.6	3.48	191	4.6		
	S			50		-2.4					
GNZ	P	16	26	14		0.0	3.85	66		4.3	4.4
	ES			55		-5.6*					

64/ 344

	H	M	S						
OCT 15	19	08	09.9	38.51S	176.04E	162 KM	SE	1.5	AVG MAG 4.5
	+-		1.5	0.06	0.05	12			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	19	08	33.7		-0.2	0.71	326		4.7	4.0
	IS			51		-1.4					
TUA	P	19	08	36	U	0.7	0.92	109		4.9	4.5
	S			55		0.1					
TNZ	P	19	08	43		2.8	1.46	242		3.8	
GNZ	IP	19	08	41.2		-0.1	1.56	95		4.8	4.6
	ES		09	05		-0.5					
WEL	P	19	08	58		0.4	2.94	199	4.6		
	ES		09	35		0.8					
COB	ES	19	09	50		0.4	3.62	224	4.5		
KAI	ES	19	10	29		-0.8	5.34	220	4.5		
GPZ	S	19	10	38		-2.2	5.77	205	4.9		

64/ 345

	H	M	S						
OCT 17	12	39	21.0	50.00S	165.00E	33 KM	SE	ND	AVG MAG 4.5
			R	R	R	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW							4.57	24		4.6	4.5
ROX	EP	12	40	38		0.2*	5.38	34		4.3	4.2
	ES		41	37		-0.0*					
GPZ	EP	12	41	18		2.3*	8.20	43			
	E		42	41							
KAI	ES	12	43	07		10.7*	8.69	33	4.9		
WEL	EL	12	46	00			11.07	42			

64/ 34

OCT 18 — H M S 00 10 21.7 ±1.1 — 40.78S (0.05) 173.51E (0.07) — 153 KM (11) — SE 2.1 — AVG MAG 4.1

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	00 10 45.9		1.5	0.66	242	3.6		
	S	11 00.9		-1.0					
WEL	P	00 10 49.9		2.3	1.08	118	4.5		
	S	11 07.2		-0.3					
TNZ	P	00 10 54.2		-0.0	1.73	23		4.0	3.7
	ES	11 17		-2.3					
KAI	EP?	00 11 04		2.4	2.35	221	4.2		
	S	33		0.9					
GPZ	EP	00 11 12		2.3	2.98	192	4.8		
	S	45		-1.3					
KRP	ES	00 11 54		1.3	3.26	30			3.4
TUA	EP	00 11 16		0.6	3.43	56		4.1	4.1
	ES	56		-0.6					
GNZ	P	00 11 22		-2.0	4.09	60		4.1	4.1
	ES	12 04		-7.9*					
ROX	(S)	00 12 44		-3.8	5.60	212			3.8

64/ 34

OCT 20 — H M S 07 43 53.0 ±0.6 — 45.79S (0.04) 168.43E (0.05) — 160 KM (3) — SE 0.5 — AVG MAG 4.9

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ROX	IP	07 44 16.7	D	-0.1	0.70	64		4.9	
	(S)	35		-0.1					
GPZ	EP	07 44 50		0.0	3.66	57	4.4		
	E	45 17							
	E	29							
	ES	34		0.2					
KAI	EP	07 44 53		-0.1	3.90	34	4.8		
	S	45 40		0.7					
COB	E	07 45 18			5.65	35	5.1		
	E	46 16							
	ES	20		-0.4					
WEL	ES	07 46 39		-0.2	6.44	48	5.0		
TNZ	E	07 45 50			7.93	36			
	ES	47 14		-0.8					
KRP	EP	07 46 07		0.2	9.48	36			
	E	16							
	ES	47 52		0.5					

64/ 34

OCT 20 — H M S 17 11 52.7 ±0.5 — 38.61S (0.04) 175.83E (0.03) — 33 KM (R) — SE 1.3 — AVG MAG 3.4

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EP*	17 11 58.0		-1.3	0.22	95			
	I	12 00.5							
KRP	IP*	17 12 06.3	U	-0.6	0.72	342		3.7	3.4
	S*	18		0.8					
TUA	EP*	17 12 12		-0.3	1.05	101		3.4	3.3
	ES*	28		1.3					
TNZ	P*	17 12 15		-0.9	1.27	243		3.5	3.3
	ES*	34		1.0					

64/ 34

OCT 20 — H M S 20 17 33.4 ±1.7 — 38.95S (0.08) 175.88E (0.07) — 162 KM (16) — SE 1.8 — AVG MAG 4.2

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	P	20 18 01		1.6	1.00	82		4.1	4.5
	S	18		-1.5					
KRP	P	20 17 58.2	D	-1.7	1.06	345		4.0	3.5
	E	18 22							
TNZ	P	20 18 02.7		1.5	1.19	258		3.9	3.4
	E	20							

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P	20 18 07.2	D	0.9	1.70	80		5.1	4.2
	ES	31		-0.6					
WEL	P	20 18 17.3		1.8	2.49	200	4.0		
	S	49		1.3					
COB	ES	20 19 05		0.8	3.22	228	4.5		
KAI	ES	20 19 42		-1.7	4.93	222	4.4		
GPZ	P	20 18 52		-0.2	5.33	206	4.6		
	ES	19 51		-2.2					

64/ 350

OCT 21 — H M S 05 02 34.9 ±0.2 — 38.69S (0.02) 175.79E (0.01) — 12 KM (R) — SE 0.6 — AVG MAG 3.5

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EPG	05 02 41		0.5	0.26	76			
	ISG	44		-0.2					
KRP	IPG	05 02 50.5		-0.5	0.79	346		3.8	3.5
	ISG	03 02		0.2					
TUA	E	05 03 02			1.07	97		3.4	3.3
	ESG	11		-0.2					
TNZ	EPG	05 03 00		0.7	1.20	245		3.6	3.3
	ESG	15		-0.5					

64/ 351

OCT 22 — H M S 07 44 27.2 ±1.9 — 44.91S (0.19) 167.89E (0.12) — 90 KM (45) — SE 2.6 — AVG MAG 4.7

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	07 44 45		-1.0	0.90	192		4.7	
	S	58		-2.3					
ROX	P	07 44 51		1.8	1.16	120		4.3	4.7
	S	45 07		1.2					
KAI	EP	07 45 24		3.5	3.49	48	4.4		
	S	46 03		2.1					
GPZ	EP	07 45 23		0.6	3.62	72	4.5		
	S	46 03		-1.2					
COB	EP	07 45 44		-0.2	5.21	45	5.0		
	S	46 41		-2.6					
WEL	ES	07 47 04		-3.8	6.20	57	5.0		
TON	E	07 46 30			8.05	48	5.0		
	ES	47 55		1.7					
KRP	P	07 46 39		2.5	9.03	42			
	ES	48 15		-2.3					

64/ 352

OCT 22 — H M S 08 04 24.0 ±0.5 — 38.57S (0.03) 175.81E (0.03) — 12 KM (R) — SE 1.3 — AVG MAG 3.4

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EPG	08 04 30		0.7	0.24	104			
	ISG	34		1.1					
TON	EPG	08 04 37		-0.6	0.66	198	3.0		
	SG	45		-1.7					
KRP	P	08 04 39.3		-0.4	0.68	342		3.9	3.3
	S	50.5		-0.7					
TUA	EP?	08 04 44		-0.7	1.08	103		3.5	3.5
	E(SG)	05 07		6.5*					
TNZ	EPG	08 04 50		0.2	1.27	241		3.5	3.2
	ESG	05 09		2.1					

64/ 353

OCT 23 — H M S 17 25 22.6 ±1.2 — 40.60S (0.06) 174.63E (0.09) — 120 KM (14) — SE 2.6 — AVG MAG 4.4

STATION	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP	17 25 45.2		3.0	0.70	171	4.6		
	S	58		0.8					
TNZ	P	17 25 50.7		1.0	1.42	352		4.0	4.3
	S	26 09		-1.2					
COB	IP	17 25 51.5	W	0.7	1.52	251	4.7		
	S	26 10		-2.1					

	TON	EP	17 25 52	0.7	1.56	27	3.7			
		S	26 12	-0.9						
	TUA	E	17 26 16		2.64	48		4.1	4.1	
		E	36							
	KRP	P	17 26 07.9	1.1	2.76	15		4.4	4.4	
		S	41	0.9						
	KAI	E(P)	17 26 16	5.0	3.09	230	4.6			
		S	46	-1.7						
	GNZ	EP	17 26 07	-6.4*	3.27	54		3.8	4.7	
		S	48	-4.0						
	GPZ	EP	17 26 17	1.4	3.43	205	4.9			
		S	54	-1.8						
	ONE	E	17 27 27		4.82	357	4.6			
	ROX	E	17 27 52		6.24	217				
		ES	28 01	-3.0						

64/ 35

	H M S							
OCT 24	10 58 29.6	38.65S	175.78E	12 KM	SE 0.3	AVG MAG	3.4	
	+- 0.1	0.01	0.01	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EPG	10 58 35		-0.2	0.25	87			
	ISG	39		0.0					
TON	PG	10 58 37		-4.7*	0.59	198	2.9		
	SG	50		0.2					
KRP	IPG	10 58 45.0	U	0.2	0.74	345		3.5	3.5
	ESG	55		0.1					
	I	59							
TUA	EPG	10 58 52		0.3	1.09	99		3.5	
TNZ	PG	10 58 54		-0.3	1.22	243		3.6	3.3
	E	59 05							
	E	12							
GNZ	EPG?	10 59 05		-0.2	1.76	91			

64/ 35

	H M S							
OCT 24	15 37 44.8	49.50S	164.61E	33 KM	SE 2.2	AVG MAG	4.8	
	+- 4.0	0.32	0.33	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	15 38 45.5		-0.7	4.24	30		4.7	4.4
	S	39 32		-1.3					
ROX	EP	15 38 59		0.7	5.14	40		4.1	4.1
	ES	39 54		-0.9					
GPZ	ES	15 41 03		-1.0	8.02	47	5.0		
KAI	ES	15 41 17		3.3	8.43	37	4.9		

64/ 35

	H M S							
OCT 25	14 56 06.1	44.90S	167.61E	80 KM	SE 1.9	AVG MAG	4.4	
	+- 2.2	0.17	0.11	47				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP	14 56 24.5	U	0.4	0.88	179		4.8	4.5
	S	36		-1.7					
ROX	P	14 56 31		1.0	1.34	116		4.0	4.3
	S	49		1.2					
KAI	EP	14 57 03		1.5	3.64	51	4.3		
	S	45		1.5					
GPZ	EP	14 57 04		0.1	3.82	73	4.2		
	ES	46		-1.8					
COB	ES	14 58 24		-2.2	5.36	46	4.4		

64/ 35

	H M S							
OCT 26	03 02 56.3	40.33S	173.53E	182 KM	SE 2.2	AVG MAG	3.8	
	+- 2.2	0.09	0.11	16				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	03 03 26		1.9	0.97	219	3.5		
	S	46		0.4					3.5
TNZ	E	03 03 27			1.32	30			
	ES	51		0.3					
WEL	IP	03 03 29.3		2.1	1.34	136	4.2		

		S	52		1.0					
	TON	ES	03 03 58		-3.1	1.91	55	3.4		
	KAI	S	03 04 16		-1.6	2.71	215	3.8		
	TUA	ES	03 04 28		0.4	3.18	63			4.0
	GPZ	EP	03 03 52		1.1	3.43	191	4.6		
		S	04 30.6		-2.4					

64/ 358

	H M S							
OCT 26	18 00 49.8	38.91S	175.43E	240 KM	SE 0.8	AVG MAG	4.2	
	+- 1.0	0.06	0.06	9				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TNZ	EP	18 01 23		-0.1	0.86	251			
TUA	EP	18 01 26		-0.3	1.34	86			3.9
	S	54		-0.4					
GNZ	P	18 01 32		-0.1	2.04	83		4.3	4.0
	ES	02 05		0.2					
WEL	P	18 01 37.0		1.2	2.42	192	4.5		
	S	02 12		0.4					
KAI	E	18 02 25			4.73	219	4.2		
	E	52							
GPZ	S	18 03 09		-0.9	5.22	203	4.5		

64/ 359

	H M S							
OCT 27	00 40 46.1	37.16S	177.52E	249 KM	SE 1.9	AVG MAG	5.2	
	+- 1.5	0.10	0.09	8				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	00 41 24.1	U	-0.8	1.54	165		6.0	5.8
	S	56.2		1.4					
TUA	IP	00 41 25.6	U	-0.4	1.67	190		5.4	4.9
	ES	57		0.3					
KRP	IP	00 41 25.7	U	-0.9	1.75	243		5.0	4.5
	IS	55		-2.9					
WNZ	P	00 41 27.7		0.3	1.85	217		5.2	4.9
	E	42 08							
TNZ	P	00 41 43.0		1.9	3.20	230		4.6	4.2
	E	42 10							
	ES	28		4.2					
WEL	P	00 41 57.6		-0.4	4.64	207	5.7		
	S	42 54		-0.1					
COB	P	00 42 07		-0.4	5.41	222	5.3		
	S	43 11		0.1					
KAI	E(P)	00 42 18		-11.0*	7.13	219	5.4		
	S	43 47		-2.6					
GPZ	EP	00 42 33		-0.9	7.51	208	5.9		
	S	43 56		-2.4					
ROX	EP	00 43 10		0.2	10.34	214			
	E	45 00							
MNW	EP	00 43 24		1.3	11.37	218			
	ES	45 28		1.9					

64/ 360

	H M S							
OCT 27	10 29 33.4	38.61S	175.69E	12 KM	SE 2.1	AVG MAG	2.8	
	+- 1.0	0.05	0.06	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EPG	10 29 42		1.7	0.32	94			
CNZ	EPG	10 29 46		0.2	0.60	191		2.4	2.5
	ISG	52		-2.0					
KRP	EPG	10 29 46		-1.5	0.69	350		3.2	
TNZ	EPG	10 29 57		-0.2	1.17	240			3.0
	E(SG)	30 15		1.9					

64/ 361

	H M S							
OCT 30	04 54 09.0	42.30S	171.63E	12 KM	SE 1.8	AVG MAG	2.7	
	+- 1.1	0.04	0.09	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	P*	04 54 14.0		-0.8	0.27	216			
COB	EP*	04 54 36		0.7	1.47	35	2.8		

		E(SG)		58	-0.8						
	GPZ	EP*	04	54 39	1.9	1.58	152	2.7			
		ES*		57	-1.1						
											64/ 361
	H	M	S								
OCT 30	06	55	34.6	38.67S	175.74E	178 KM	SE	1.7	AVG MAG		3.8
	+-		1.3	0.07	0.06	9					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	CNZ	IP		06	56 01		1.5	0.55	196		3.6 3.2
		ES			19		0.4				
	TON	ES		06	56 19		0.3	0.55	197	2.9	
	KRP	IP		06	56 00.4	U	-0.2	0.76	348		4.1 3.2
		ES			18		-2.8				
	TUA	EP		06	56 04		0.9	1.11	97		3.9 3.9
		ES			25		-0.2				
	TNZ	P		06	56 06.5		2.8	1.18	244		3.7
	GNZ	P		06	56 10.4		0.9	1.79	90		4.1 3.7
		ES			35		-1.5				
	WEL	P		06	56 22.1		1.8	2.71	196	4.0	
		S			56		0.5				
	COB	ES		06	57 10		0.9	3.34	223	4.1	
	KAI	ES		06	57 47		-1.6	5.07	219	4.3	
	GPZ	EP		06	56 55		-1.2	5.53	204	4.4	
		ES			57 57		-2.5				
											64/ 362
	H	M	S								
NOV 01	13	51	28.5	39.19S	175.46E	139 KM	SE	1.6	AVG MAG		3.4
	+-		1.1	0.05	0.05	9					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	CNZ	P		13	51 48	U	0.6	0.07	98		
		E			59						
		ES			52 01		-0.7				
	TNZ	EP		13	51 53		1.9	0.84	270		3.1 3.1
		E			52 06						
		E(S)			09		0.6				
	KRP	P		13	51 56		0.9	1.27	3		3.5 3.3
		ES			52 13		-2.5				
	GNZ	EP		13	52 05		0.8	2.07	76		3.8 3.8
		E			09						
		ES			31		-0.5				
		E			35						
	WEL	EP		13	52 07		1.6	2.16	194	3.8	
		ES			34		0.5				
	COB	ES		13	52 49		0.3	2.82	227	3.7	
	KAI	S		13	53 27.5		-1.3	4.53	221	4.1	
	GPZ	ES		13	53 37		-2.3	4.97	204	4.2	
											64/ 363
	H	M	S								
NOV 01	17	00	05.0	41.91S	174.09E	12 KM	SE	1.4	AVG MAG		3.8
	+-		0.5	0.03	0.03	R					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	WEL	P*		17	00 20.9	D	1.0	0.80	39	3.8	
		E			32						
		S*			32.5		1.7				
	COB	EP		17	00 28		-0.9	1.31	308	3.2	
		E(P*)			30		1.4				
		ES			45		-1.5				
	GPZ	EP		17	00 39		0.0	2.08	210	3.6	
		EPG			46		-1.1				
		ES			01 02		-2.0				
		E			20						
	KAI	EPG		17	00 48		0.7	2.09	252	3.1	
		E			54						
		S			01 04.5		0.2				
		ES*			09		-0.4				
		ESG			18		2.5				
	TNZ	EP*		17	00 54		1.1	2.73	5		3.7 3.4

		EPG		59	-1.3						
		E		01 06							
		E(SG)		36	-1.2						
		E		52							
	CNZ	EP	17	00 51	0.3	2.93	23			3.8	3.7
		EP*		01 00	3.8*						
		E(SG)		44	0.3						
	KRP	EP*	17	01 16	-0.9	4.13	16			3.7	3.6
		E		20							
		E(PG)		31	2.4						
		E(S)		53	-1.0						
		E(SG)		02 23	-1.4						
											64/ 365
	H	M	S								
NOV 01	21	16	59.5	38.57S	175.94E	180 KM	SE	2.2	AVG MAG		3.7
	+-		1.9	0.08	0.07	12					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	CNZ	P		21	17 27		1.6	0.70	206		3.2 3.2
		ES			45		-0.4				
	KRP	EP		21	17 25.5	D	-0.1	0.72	334		4.1 3.2
		ES			42		-3.7				
	TUA	EP		21	17 29		1.8	0.98	104		3.9 4.1
		ES			49		0.4				
	TNZ	EP		21	17 32.5		2.1	1.36	243		3.3 3.0
		E(S)			57		2.6				
		E			18 10						
	GNZ	ES		21	17 58		-1.0	1.63	93		4.0
	WEL	EP		21	17 48		0.9	2.86	198	4.0	
		ES			18 24		0.3				
	COB	S		21	18 37.5		-0.7	3.52	224	4.0	
	GPZ	EP		21	18 23.0		-0.2	5.69	205	4.1	
		S			19 24.5		-3.7				
											64/ 366
	H	M	S								
NOV 01	22	12	42.2	37.65S	177.49E	209 KM	SE	1.6	AVG MAG		4.4
	+-		1.1	0.06	0.06	8					
				H	M S	DIR	RES	DIST	AZ	W-A	W P W S
	ECZ	E(P)		22	13 12		-0.0	0.84	93		4.3 4.3
		E			15						
		E			24						
		E			30						
		E(S)			34		-1.2				
	GNZ	EP		22	13 15		1.5	1.07	157		4.7 4.8
		E			21						
		E			30						
		E			33						
		ES			39		1.2				
	TUA	EP		22	13 15.5		1.2	1.18	193		4.4 4.3
		E			17						
		E			30.5						
		E			35						
		E(S)			37		-2.3				
	KRP	IP		22	13 15.5	U	-2.1	1.57	260		4.4 4.2
		E			24						
		E(S)			37		-8.0*				
	CNZ	EP		22	13 24		0.5	2.17	224		4.5 4.0
		E			25						
		E			31						
		E(S)			55		-0.3				
		E		14	00						
		E			04						
	TNZ	EP		22	13 33.5	D	2.0	2.88	237		4.3 3.7
		E			43						
		E(S)		14	12		2.3				
	ONE	EP		22	13 34		-0.4	3.14	306		
		E			37						
	WEL	EP		22	13 48.5		1.2	4.20	209	4.5	

```
            E          14 07               1.2
            E             37
            ES            39               1.2
            E          15 09
     COB    EP      22 13 58               0.1   5.04  226   4.6
            ES?        14 56              -0.7
     KAI    E(S)    22 15 33              -3.0   6.74  222   4.6
     GPZ    EP      22 14 24              -0.1   7.07  210   4.9
            E             28
            E          15 40
             S            42.5            -1.2

    H  M  S                                                          64/ 36
NOV 02  12 00 26.8    40.51S  174.34E  100 KM   SE  2.0    AVG MAG  4.1
           +_ 0.9      0.04      0.05   12
                       H  M  S   DIR  RES    DIST    AZ   W-A   W P  W S
     WEL    EP      12 00 46.5         0.6   0.84   158   3.6
            E(S)       01 00          -0.3
            E             02
     TNZ     P      12 00 53.0   U     1.5   1.32     1         4.1  4.1
            E             58
            E          01 03
            E(S)          09          -1.0
            E             13
     COB    EP      12 00 52.5         0.6   1.35   244   4.0
             S         01 10.5        -0.2
     CNZ     P      12 00 56     D     1.1   1.60    36         4.1  4.4
            E          01 09
            ES            16           0.2
            E             24
     KRP     P      12 01 11.0         1.0   2.74    20         4.1  4.1
            E             19
             S            41.5        -1.0
            E             50
     TUA    EP      12 01 15           4.8   2.75    53         3.9  3.8
            E             22
            E             38
            E(S)          54          11.2*
     KAI    E       12 01 17                 2.99   227   3.9
            E             29
            E             45
            ES            50           1.5
            E          02 08
     GNZ     P      12 01 17.5        -1.5   3.40    58         3.8  4.1
            E             48.5
            E             53.5
            E(S)          57          -1.5
            E          02 06
     GPZ    EP      12 01 19          -0.4   3.43   201   4.2
            E             37.5
            E             54.5
            ES            56          -3.2
     ONE    ES      12 02 29          -2.1   4.72     0   4.1
            E             54

    H  M  S                                                          64/ 36
NOV 02  17 49 49.8    41.88S  174.66E   12 KM   SE  2.6    AVG MAG  3.8
           +_ 0.7      0.04      0.05   R
                       H  M  S   DIR  RES    DIST    AZ   W-A   W P  W S
     WEL     P*     17 50 01.0   U    -0.1   0.60     7   3.8
            E             08
            E(S*)         10           0.6
            E(SG)         12           1.8
     COB    EP      17 50 17.0        -1.1   1.65   298   3.5
            I             17.4
             S            38.5        -0.5
            E(S*)         41          -0.1
```



```
            ESG           48           2.4
     GPZ    EP      17 50 25.5        -1.9   2.35   219   3.7
            EP*           33           1.9
             PG           40.5         3.2
            ES            53          -2.4
            ES*        51 03           1.0
            E             28
     KAI    EP*     17 50 35           1.2   2.50   254   3.9
            EPG           38          -2.5
            E(S)          56          -3.7
            E          51 01
            ES*           08           1.3
            ESG           11          -3.3
            E             27
     TNZ    EP*     17 50 38           0.9   2.70   355         3.9  3.8
            EPG           45           0.6
            E             54
            E(SG)      51 17          -3.8
     CNZ    EP*     17 50 38          -0.1   2.76    14
            E             36
            EPG           42          -3.6
            E(S*)      51 11          -3.4
            E             19
            ESG           25           2.2
     TUA    EPG     17 51 03           0.2   3.61    33         3.7  3.7
            E             21
             SG           56           4.6
     KRP    E       17 50 56                 4.00    10         3.9  3.7
            E          51 03
            EPG           09          -1.8
            E(S)          37           1.4
            E             48
            E             59
            E          52 14
     GNZ    ES      17 51 35          -3.6   4.13    40              3.7
     ROX    E(PG)   17 51 36          -0.8   5.29   225         3.7  3.5
            E(S*)      52 35           4.6
     ONE    ES      17 52 31           5.1   6.10   358   4.1
            E             42

    H  M  S                                                          64/ 369
NOV 02  17 51 24.8    41.91S  174.58E   12 KM   SE  1.5    AVG MAG  3.2
           +_ 1.0      0.04      0.04   R
                       H  M  S   DIR  RES    DIST    AZ   W-A   W P  W S
     WEL    EP*     17 51 36          -0.7   0.64    13   2.9
            ES*           46           0.4
            E             57
     COB    EP      17 51 51          -1.5   1.61   300   3.0
            ES         52 12          -1.0
            E(S*)         15           0.1
            ESG           21           1.8
     GPZ    ES*     17 52 37           1.9   2.28   218   3.1
     KAI    E(S*)   17 52 38          -1.6   2.44   254   3.3
            E          53 01
     CNZ    ESG     17 53 00           0.7   2.80    16              3.5
     KRP    E       17 53 48                 4.05    11              3.5

    H  M  S                                                          64/ 370
NOV 03  10 07 41.7    36.35S  179.52E  291 KM   SE  0.9    AVG MAG  4.1
           +_ 1.1      0.12      0.19   7
                       H  M  S   DIR  RES    DIST    AZ   W-A   W P  W S
     ECZ    EP      10 08 25           0.3   1.55   210         3.6  4.2
            E             52
            E(S)          58           0.2
     GNZ     P      10 08 33.3   U     0.2   2.58   207         4.6  4.4
            E          09 08
            E(S)          13          -0.2
```

	CNZ	EP	10 08 49	-1.6	4.24	227		3.7	
	TON	E	10 08 50		4.25	227			
	TNZ	E(P)	10 09 00	1.2	4.96	234		3.8	
	WEL	EP	10 09 12.5	-0.8	6.17	216	4.3		
		E(S)	10 25	-0.2					
	GPZ	E(P)	10 09 49	0.4	9.03	214			
		E(S)	11 29	0.5					

64/ 37

	H M S							
NOV 05	11 43 18.7	42.49S	172.85E	12 KM	SE 1.4		AVG MAG	3.1
	+- 0.4	0.03	0.03	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	EP*	11 43 39		1.0	1.06	268	3.0		
	ES	52		-2.4					
	ES*	54		1.7					
GPZ	EP	11 43 40.0		-1.2	1.21	187	3.0		
	E(P*)	42		1.4					
	ES	57		-0.9					
COB	EP	11 43 42		-1.8	1.40	357	3.2		
	ES	44 00		-2.3					
	E(S*)	02		-0.6					
WEL	EP*	11 43 52		0.2	1.87	51	3.2		
	E(S*)	44 17		0.4					
	E(SG)	20		-1.9					
	E	25							
TNZ	EP	11 44 13		1.0	3.50	20		3.6	3.8
	EP*	22		2.3					
	ES	54		1.7					
	ES*	45 10		4.4*					
TON	EP*	11 44 26		0.0	3.87	33	3.5		
	ES*	45 17		0.4					
	E	35							
CNZ	EP*	11 44 25.5		-0.6	3.87	33		3.6	3.8
	E(S)	45 01		-0.3					
	E	23							
KRP	EP	11 44 33		0.7	5.00	25		3.5	
	E(PG)	45 01		1.1					

64/ 37

	H M S							
NOV 05	12 16 21.2	38.59S	177.46E	12 KM	SE 2.1		AVG MAG	4.4
	+- 0.4	0.03	0.03	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IPG	12 16 33.5	U	3.1	0.44	97			
	E(SG)	40		3.4					
	E	50							
ECZ	IP	12 16 40.5	D	-3.6	1.24	44		4.9	4.8
	EPG	46		-0.4					
	ES	59		-2.0					
	ESG	17 05		1.8					
CNZ	P	12 16 49.1	D	0.2	1.61	247		4.3	4.4
	E(PG)	54		0.2					
	E	17 03							
	E(S)	09		-0.4					
TON	P	12 16 49		0.0	1.62	247	3.8		
	EP*	52		2.1					
	E	17 01							
	ES	10		0.5					
KRP	P	12 16 48.6	D	-0.9	1.65	293		3.9	3.8
	EP*	52		1.5					
	ES	17 09		-1.4					
	ES*	16		3.5					
TNZ	P	12 17 01.6		1.1	2.47	255		4.4	4.3
	EP*	06		1.4					
	E(S)	33		3.1					
	ESG	44		-0.6					
AUC	P	12 17 04	D	-0.3	2.74	308		4.0	3.9
	S	36		-0.8					

	WEL	P	12 17 09.8	D	-3.2	3.39	217	5.0	
		P*	19.5		-0.8				
		E	42						
		ES	50		-2.2				
		ES*	18 07		2.2				
	ONE	EP	12 17 17		-0.8	3.75	318	4.0	
		E	20						
		ES	18 00		-0.7				
	COB	E(PG)	12 17 50		-0.3	4.41	234	4.6	
		E	37						
		ES	18 16		-0.7				
		E(S*)	40		4.7				
	KAI	E	12 17 54			6.05	228	5.1	
		EP*	18 04		-1.9				
		E	52						
		E(S)	55		-1.2				
	GPZ	EP	12 17 48		-3.5	6.26	214	5.4	
		E(P*)	18 06		-3.3				
		E	54						
		ES	56		-5.0*				
	ROX	EP	12 18 30		-0.1	9.16	219		
		ES	20 05		-5.1*				

64/ 373

	H M S							
NOV 05	14 12 19.3	33.84S	179.43W	355 KM	SE 1.2		AVG MAG	4.8
	+- 1.1	0.09	0.13	16				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	14 13 30.5		-0.4	4.18	203		4.2	4.6
	E	14 23							
	E	26							
	E	30							
GNZ	EP	14 13 42		-0.0	5.22	202		4.6	4.9
	E	44							
	E	14 30							
	E	43							
ONE	EP	14 13 44		-0.7	5.46	248			
TUA	EP	14 13 47		-0.2	5.67	208		4.4	4.8
	E	14 51							
	E	57							
	E	15 00							
KRP	P	14 13 48.0		-0.2	5.77	224		4.3	
	E	14 31							
	E	51							
CNZ	EP	14 13 59		-0.1	6.70	216			
	ES	15 19		1.6					
TON	EP?	14 13 59		-0.1	6.71	216	4.7		
	ES	15 18		0.4					
TNZ	EP	14 14 08		2.0	7.30	221			
	E	10							
	E(S)	15 40		10.0*					
WEL	EP	14 14 21.5		-1.6	8.74	210	5.6		
	S	15 59.5		-1.3					
COB	ES	14 16 17		-1.0	9.54	218	5.3		
KAI	E	14 16 53			11.27	217			
GPZ	E(P)	14 14 59		1.5	11.61	210	5.6		
	E	15 05							
	E	10							
	ES	17 03		0.2					

64/ 374

	H M S							
NOV 07	08 24 09.4	38.32S	176.11E	210 KM	SE 1.7		AVG MAG	4.4
	+- 0.8	0.04	0.05	7				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	08 24 38.8	D	0.6	0.60	311		4.6	3.8
	ES	59		-1.4					
TUA	IP	08 24 42	U	2.0	0.95	121		4.7	4.6
	ES	25 04		0.3					

CNZ	IP	08	24	41.5	U	1.3	0.99	207		4.4	3.1
	E		25	03.5							
	E(S)			05		0.9					
	E			11							
TON	EP	08	24	41.5		1.2	0.99	207	3.5		
	S		25	04.5		0.3					
	E			10							
GNZ	IP	08	24	45.2	U	0.7	1.53	103		5.2	5.1
	E		25	07							
	ES			11		-0.7					
TNZ	P	08	24	47.4	U	2.2	1.61	237		3.9	3.4
	E			50							
	E		25	25							
	E			36							
AUC	EP?	08	24	47		-0.0	1.80	323		3.5	
	E			50							
ECZ	EP	08	24	48		-1.2	2.02	73		4.0	4.1
	E			53							
	E		25	11							
	ES			17		-2.8					
	E			27							
ONE	EP	08	24	59.1		0.2	2.90	331	3.7		
	ES		25	36		-1.2					
	E			52							
WEL	EP	08	25	02.3	U	0.6	3.14	199	4.8		
	E			15.5							
	ES			42		-0.2					
	E			44							
COB	E(P)	08	25	11.5		1.9	3.80	222	5.4		
	E			32							
	ES			36		-20.3*					
KAI	ES	08	26	32		-3.2	5.53	219	5.6		
GPZ	EP	08	25	37.4		0.2	5.98	205	5.0		
	ES		26	43		-2.6					
MNW	E(P)	08	26	29		2.8	9.77	218			
	S		28	11.5		-1.9					

64/ 37

	H	M	S								
NOV 07	20	45	01.5	45.32S	171.99E	33 KM	SE	2.3		AVG MAG	4.2
	+-		1.5	0.08	0.08	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GPZ	EP	20	45	29		1.1	1.69	16	4.1		
	EP*			34		2.2					
	S			46.5		-1.3					
	ES*			55		0.7					
ROX	EP	20	45	31		0.3	1.89	264		4.6	4.1
	EP*			35		-0.2					
	ES			54		1.3					
	ES*			57		-3.3					
KAI	EP	20	45	46		2.6	2.82	351	3.8		
	EP*			52		0.9					
	E		46	14							
	E(S)			19		3.7					
	E(S*)			26		-2.2					
MNW	EP	20	45	48		0.7	3.10	260		4.5	4.1
	EP*			57		1.1					
	ES		46	21		-1.3					
	E			34							
	E			40							
COB	ES	20	46	58		7.5*	4.26	8	3.8		
WEL	ES	20	46	54		-2.4	4.51	28	4.0		
TNZ	ES?	20	47	49		7.6*	6.38	17			
TON	E(S)	20	47	44		-4.0	6.65	25	4.3		
CNZ	E	20	47	53			6.66	25			

64/ 376

	H	M	S								
NOV 08	02	43	52.9	49.93S	164.30E	33 KM	SE	4.2		AVG MAG	6.7
	+-		2.0	0.42	0.52	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	EP	02	44	55.5		-5.2	4.71	30		6.1	
	E		45	00							
	E			25							
	E			37							
ROX	EP	02	45	07		-5.6	5.59	39			
	E			10							
	E			21							
	E			37							
	E		46	06							
MCQ	EP	02	45	14		0.9	5.63	214			
GPZ	EP?	02	45	47.5		-3.5	8.46	46	7.1		
	E			48.5							
	E			51							
	E		46	47							
	E		47	10.5							
	E			15.5							
COB	EP	02	46	17		-2.8	10.63	37	6.9		
	E			21							
	ES		48	07		-7.0					
WEL	EP	02	46	30.0	D	1.2	11.32	44	6.9		
	E			36							
	E		47	31							
	E		48	06							
	ES			26		-4.1					
	E			35							
TNZ	EP	02	46	51.5		2.2	12.91	37			
	E		47	00							
	E			30							
	E(S)		49	11		4.0					
	E			39							
	E		51	29							
TON	E	02	47	02			13.37	41	7.0		
	E			35							
	E(S)		49	19		1.5					
CNZ	EP?	02	46	54.8	U	-0.4	13.37	41			
	E		47	01.8							
	E			14							
	E			19							
	E			35							
	E		48	09							
	E			51							
KRP	EP	02	47	09		0.2	14.45	38			
	E			34							
	E			51							
	E		48	49							
	E(S)		49	43		0.7					
	E		50	11							
GNZ	EP	02	47	19		4.2	14.93	46			
	E(S)		49	57		3.9					
AUC	P	02	47	13	D	-3.9	15.10	34			
	E			25							
	E		49	59							
	E		50	41							
ONE	E(P)	02	47	35	E	7.9	15.93	31	6.2		
	ES		50	20		4.5					

64/ 377

	H	M	S								
NOV 09	17	52	05.8	50.16S	164.67E	33 KM	SE	0.1		AVG MAG	4.2
	+-		0.2	0.02	0.02	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	17	53	15		0.1	4.81	25		4.6	4.2
	ES		54	08		-0.0					

	ROX	EP?	17	53	26		-0.1	5.64	35	4.2	4.1
		E			28						
		E(S)		54	28		0.0				
		H M S									64/ 379
NOV 11		20 21 06.8	39.40S		178.19E		12 KM	SE 1.6		AVG MAG	4.6
		+- 0.8	0.03		0.04		R				
			H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	GNZ	IP	20	21	23.6	U	0.1	0.76	350		
		E			29						
	TUA	IP	20	21	25.0		-1.5	1.00	306	4.8	
		E			33						
	CNZ	IP	20	21	40.8	D	0.3	2.06	275	4.7	4.7
		E(PG)			51		2.4				
		S		22	05.5		0.0				
		ES*			11		0.6				
	TON	EP	20	21	40.8		0.2	2.07	274		
		E(P*)			43		-0.3				
		E			48						
		E(PG)			51		2.3				
		E		22	01						
		S			06.5		0.9				
		ES*			10		-0.7				
	KRP	P	20	21	45.1	D	-2.2	2.55	304	4.5	4.5
		PG			57.5		-0.8				
		E		22	05						
	TNZ	P	20	21	53.3	D	0.3	2.97	273	4.5	4.3
		EP*			59		0.3				
		E(S)		22	23		-4.8*				
		ES*			39		1.4				
	WEL	EP?	20	21	55.9		-0.5	3.23	233	4.8	
		I			56.6						
		EP*		22	05		1.9				
		E			26						
		ES			33		-0.8				
		E(SG)			54		-1.7				
	AUC	EP	20	22	02		-0.7	3.70	312	4.2	3.1
		EPG			21		-0.6				
		E(S)			44		-1.1				
	COB	E(P)	20	22	13		-0.7	4.51	246	4.7	
		EP*			29		4.0				
		EPG			39		1.0				
		ES		23	02		-2.7				
		E(S*)			29		5.1*				
	ONE	EP	20	22	17		0.4	4.72	319	4.1	
		EPG			44		1.7				
		E(S)		23	08		-2.0				
	GPZ	EP	20	22	36		2.6	5.98	222	5.2	
		E		23	37						
		ES			40		-0.1				
	KAI	S	20	23	37.5		-3.4	6.01	236	5.0	
		E			39.5						
	ROX	E(S)	20	24	50		-0.5	8.94	224		
		H M S									64/ 37
NOV 12		00 28 24.3	37.67S		176.49E		12 KM	SE 0.7		AVG MAG	3.3
		+- 0.8	0.05		0.02		R				
			H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP	P*	00	28	38.8	U	-0.1	0.79	251	3.5	3.6
		E(PG)			41		0.5				
		E			44						
		ES*			49		-0.8				
		E(SG)			51		-0.2				
	TUA	E(P*)	00	28	47.5		0.8	1.25	155	3.1	3.1
		E(S*)		29	03		-0.5				
	GNZ	E(PG)	00	28	55		-0.8	1.55	129	3.5	3.3
		E(SG)		29	22		5.3*				

	CNZ	E(P*)	00	28	55		0.6	1.69	206	2.8	
		EPG			59		0.4				
		H M S									64/ 380
NOV 12		07 13 04.9	38.76S		175.71E		170 KM	SE 1.6		AVG MAG	3.5
		+- 1.6	0.08		0.07		12				
			H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	CNZ	P	07	13	30.3	U	1.7	0.46	197		
		E			35						
		E			48						
		E			59						
	TON	EP	07	13	30		1.4	0.46	197	2.7	
		E			32						
		ES			47		0.2				
	KRP	IP	07	13	30.5	D	-0.2	0.85	351	3.6	2.9
		E			33						
		ES			49		-1.6				
		E			50						
	TNZ	E	07	13	35			1.12	248	3.2	
	TUA	E	07	13	33.5			1.12	93	3.4	3.9
		E			48						
		E			53						
	GNZ	EP	07	13	40		0.4	1.81	87	3.6	3.6
		E		14	02.5						
		E(S)			05		-1.3				
	WEL	EP	07	13	50.5		1.3	2.62	196	3.7	
		ES		14	24		0.8				
	COB	ES	07	14	37		-0.2	3.26	224	3.6	
	GPZ	ES	07	15	25		-2.6	5.44	204	4.0	
		H M S									64/ 381
NOV 13		10 34 35.7	38.95S		176.00E		12 KM	SE 1.5		AVG MAG	3.8
		+- 0.4	0.03		0.03		R				
			H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	EP*	10	34	40.2		-2.1	0.32	15		
		E			42						
		E(S*)			47		-0.1				
		E			51.5						
	TON	P*	10	34	43		-1.3	0.44	234	3.2	
		E(PG)			44		-0.8				
		S*			49.5		-1.0				
		E(SG)			53		2.1				
	TUA	IP*	10	34	52.5	U	0.2	0.91	82	4.1	4.1
		S*		35	05.3		0.6				
	TNZ	EP	10	34	59.0		-0.1	1.28	259	3.7	3.5
		E		35	05						
		E(S)			18		1.6				
		E			20						
		E			22						
		E			26						
	GNZ	E(P*)	10	35	06.5		2.2	1.61	80	4.2	3.8
		E			12						
		E(S*)			26		0.2				
		SG			35.5		5.4*				
	WEL	EP*	10	35	19		-0.9	2.52	202	3.6	
		E			20.5						
		EPG			24		-2.7				
		E			28						
		ES*			53		-0.1				
		E			56						
	COB	EP*	10	35	34		0.9	3.29	228	3.5	
		E			58						
		ES*		36	18		1.7				
		E			22						
		E			30						
	GPZ	ES	10	36	54		-0.4	5.37	207	4.0	

		H	M	S									
NOV 13		17	36	16.5	38.26S	176.21E	250 KM	SE	1.1	AVG MAG			64/ 38
		+-		1.3	0.08	0.05	7						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	TUA	EP			17	36	51.8		0.5	0.92	127		3.8 4.2
		E					54.5						
		E				37	13						
		ES					18		-0.5				
	TON	E			17	36	53			1.08	209	3.2	
		ES				37	20		-0.0				
		E					57						
	GNZ	EP			17	36	54.8	D	-0.3	1.48	106		4.6
		E				37	01.5						
		E					15						
		E					19						
		E					22						
		ES					24		-0.7				
	TNZ	P			17	36	57.2	D	0.4	1.70	237		4.2 3.4
		E				37	00						
		ES					28		0.1				
	WEL	EP			17	37	13		1.1	3.22	200	4.3	
		E					56						
		ES					57		2.1				
	COB	ES			17	38	08		-0.6	3.89	222	4.2	
	KAI	ES			17	38	45		-1.1	5.62	219	4.1	
	GPZ	ES			17	38	55		-1.0	6.06	205	4.7	

		H	M	S									
NOV 14		05	52	22.7	38.16S	176.39E	237 KM	SE	1.1	AVG MAG			64/ 38
		+-		1.0	0.06	0.06	8						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP	IP			05	52	53	U	-2.0	0.71	289		4.2
	TUA	EP			05	52	56.5		0.7	0.88	138		3.8 4.1
		ES				53	20		-1.6				
	CNZ	P			05	52	58		-0.0	1.23	212		3.5 3.1
		E				53	04						
		E(S)					27		1.6				
		E					30						
	TON	E			05	53	00			1.24	212		
		E					07						
		E					21						
		E					31						
	GNZ	P			05	52	59.9		0.8	1.37	111		4.1 4.1
		E				53	19.5						
		E					25.5						
		E(S)					27		-0.2				
	ECZ	EP			05	53	02		-0.3	1.77	75		4.0 3.7
		E(S)					33		0.1				
	TNZ	EP			05	53	04.5		1.3	1.88	236		3.9
		E					38						
	WEL	EP			05	53	19.9	D	0.9	3.37	201	4.1	
		ES				54	03		0.4				
		E					04						
	COB	E(S)			05	54	17		-0.3	4.06	223	3.9	
		E					19						
	KAI	ES			05	54	55		-0.5	5.79	220	4.9	
		E				55	19						
		E					21						
	GPZ	ES			05	55	04		-1.1	6.21	206	4.6	

		H	M	S									
NOV 15		00	53	50.0	39.61S	174.25E	242 KM	SE	1.3	AVG MAG			64/ 38
		+-		1.1	0.06	0.06	8						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	TNZ	P			00	54	23.0	D	1.1	0.44	13		
		ES					47		0.3				

		E			50.5								
	TON	EP	00	54	24.5		-0.3	1.08	68	3.6			
		ES			50		-1.9						
		E			51.5								
	WEL	EP	00	54	31.2		1.6	1.72	167	4.0			
		E			59								
		ES		55	02		1.8						
	COB	EP	00	54	31.8		0.9	1.87	218	3.7			
		ES		55	02		-0.6						
	TUA	ES	00	55	12		0.5	2.39	71				3.9
	GNZ	E	00	55	15			3.09	73				4.2
		ES			24		-0.9						
	KAI	EP	00	54	49		-0.4	3.62	216	3.7			
		ES		55	35		-0.6						
	GPZ	EP	00	54	57		0.1	4.25	196	4.1			
		S		55	47.5		-1.5						

		H	M	S									
NOV 15		09	21	16.8	40.64S	176.65E	12 KM	SE	1.6	AVG MAG			64/ 385 4.0
		+-		0.5	0.02	0.03	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WEL	EP			09	21	43.5		-0.5	1.57	245	3.6	
		EPG					51		2.4				
		E					55						
		E				22	00						
		ES					03		-1.1				
		ESG					08		-1.8				
		E					17						
	CNZ	IP			09	21	45.2	U	-0.1	1.67	329		4.5 4.4
		E(PG)					50		-0.6				
		ES				22	06		-0.3				
	TON	EP			09	21	45		-0.3	1.67	329	3.9	
		EP*					47		0.5				
		EPG					51		0.4				
		E					59.5						
		ES				22	05		-1.3				
		ES*					10		1.4				
	TUA	EP			09	21	47	D	-0.9	1.87	12		3.9 4.1
		EPG					56		1.3				
		ES				22	10		-0.9				
		ES*					16		1.4				
		E					28						
	GNZ	EP			09	21	52.5		-0.7	2.26	28		3.7 4.1
		EP*					55		-1.5				
		E(PG)				22	05		2.5				
		E					14						
		E(S)					20		-0.2				
		E(S*)					23		-3.3				
	TNZ	EP			09	21	54		0.6	2.27	309		4.3 4.1
		EP*					58		1.2				
		EPG				22	01		-1.8				
		ES*					27		0.3				
		ESG					33		-0.4				
	KRP	EP			09	22	01		-0.4	2.84	342		4.0 4.1
		EP*					08		1.4				
		E					11						
		E					28						
		E(SG)					53		0.3				
	COB	E(P*)			09	22	13		3.7	3.00	260	3.8	
		ES					37		-1.4				
		ES*					49		0.2				
	GPZ	E(P*)			09	22	35		4.1	4.26	223	3.7	
		ES				23	07		-1.9				
	KAI	E(PG)			09	22	45		-0.0	4.36	243	3.7	
		ES				23	09		-2.2				
		E(S*)					21		-8.5*				

		H	M	S										
														64/ 386
NOV 18		11	16	18.2	40.90S	174.02E	121 KM	SE	1.3	AVG MAG	3.7			
		+-		0.9	0.03	0.05	9							
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL		P		11	16	39	U	1.2	0.68	125	3.9		
			E				49							
			ES				52		-0.7					
	COB		EP		11	16	42		1.5	0.99	259	4.0		
			E				45							
			ES				57		-0.5					
	TON		E		11	17	09			2.06	35	3.4		
			E				19							
	CNZ		EP?		11	16	53		0.0	2.06	35		3.5	3.8
			E				54							
			E			17	03							
			E				12							
			ES				20		0.8					
			E				26							
	GPZ		E		11	17	39			2.97	200			
			ES				40		-0.8					
	TUA		E		11	17	43			3.19	50			3.8
			ES				46		0.3					
	KRP		EP		11	17	08		-0.0	3.20	22		3.6	3.8
			E				34							
			ES				44		-1.9					
	GNZ		ES		11	17	53		-7.9*	3.82	55			3.7
		H	M	S										64/ 387
NOV 20		07	02	44.0	39.26S	176.86E	12 KM	SE	1.8	AVG MAG	4.8			
		+-		0.4	0.02	0.03	R							
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TUA		P*		07	02	55		1.3	0.51	27			
	WNZ		EP*		07	03	01		1.2	0.86	317		5.1	5.4
			E				06							
			E(S*)				14		2.5					
			ES				16		0.9					
	CNZ		P		07	03	04.2		0.3	1.02	273			
	TON		IP		07	03	04.2	U	0.3	1.02	273	3.8		
			E				10							
			ES				18		-0.7					
			E				30							
	GNZ		IP		07	03	03.8	D	-1.2	1.10	56		5.4	5.3
			E(PG)				08		1.7					
			E				11.5							
			E(SG)				28		6.8*					
			E				32							
	KRP		P		07	03	12	U	-0.7	1.69	322		4.9	4.7
			EP*				15		1.1					
			EPG				18		-0.2					
			E(S)				33		-0.9					
			E(SG)				41		0.0					
			E				47							
	ECZ		EP		07	03	17.5		-0.1	2.05	41		4.4	4.4
			I				19							
			E(PG)				25		-0.5					
			E				29							
			E				33							
			ES				41		-1.4					
	WEL		E(P)		07	03	24.5		-0.3	2.58	218	4.9		
			E				28							
			EP*				32		2.9					
			E(PG)				39		2.9					
			E(S)				54		-1.6					
			E(SG)			04	12		1.2					
	AUC		EP		07	03	29		-0.4	2.91	325		3.8	3.9
			EPG				39		-3.8					

		E			46									
		E			52									
		E(S)			59		-4.5*							
		E		04	45									
	COB	EP	07	03	38		-1.2		3.65	239	4.7			
		E			45									
		EP*			49		1.6							
		ES		04	21		-0.1							
		E			26									
		E(S*)			33		-2.2							
	KAI	EPG	07	04	31		0.7		5.26	230	5.2			
		E			13									
		ES			59		-1.0							
		E(S*)		05	20		-3.6							
		E			36									
		E(SG)			44		2.8							
	GPZ	EP	07	04	04		0.7		5.44	214	5.3			
		EP*			19		0.9							
		S		05	00		-4.3							
	ROX	E	07	05	01				8.34	220				
		E		06	32									
		EL		07	30									
	MNW	E	07	05	05				9.42	223				
		E			12									
		E			41									
		E(S)		06	40		0.9							
		H	M	S										64/ 388
NOV 20		08	53	24.5	35.71S	178.48E	293 KM	SE	1.2	AVG MAG	4.2			
		+-		1.4	0.08	0.09	11							
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP			08	54	11.5		0.8	1.98	179		4.3	4.4
		E					40							
		ES					48		1.2					
	GNZ	IP			08	54	18.8	D	-0.9	2.96	187		5.0	4.9
		ES				55	03		0.2					
	KRP	EP			08	54	22		-0.6	3.24	226		3.5	3.2
		ES				55	07		-0.9					
	TUA	EP			08	54	22		-1.0	3.27	199		3.8	4.2
		E(S)				55	07		-1.6					
		E					10							
	CNZ	EP			08	54	34		1.0	4.20	213		3.7	
		E				55	34							
	TON	E(S)			08	55	28		1.3	4.20	213	3.9		
		E					40							
	WEL	ES			08	56	10		-0.7	6.29	206	4.9		
		E					19							
	COB	ES			08	56	28		1.3	7.01	218	4.6		
		H	M	S										64/ 389
NOV 20		09	49	45.7	37.22S	177.08E	280 KM	SE	1.0	AVG MAG	4.2			
		+-		1.2	0.07	0.08	9							
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP			09	50	26		-0.8	1.41	240		3.7	
	TUA	P			09	50	28.0	U	0.1	1.58	178		4.5	4.0
		ES				51	00		-0.4					
	GNZ	IP			09	50	28	U	0.0	1.60	153		4.8	4.4
		ES				51	00		-0.6					
		E					05							
	CNZ	P			09	50	34.5		0.8	2.31	211		3.9	
		E				51	15							
	TON	EP			09	50	34.5		0.7	2.32	211	3.7		
		ES				51	12		0.7					
	WEL	ES			09	51	53		1.4	4.44	203	4.4		
	COB	ES			09	52	05		-1.2	5.13	220	4.2		
	GPZ	ES			09	52	53		-0.7	7.29	206	4.5		

64/ 39[illegible]

	H M S						
NOV 20	21 20 19.2	39.23S	176.02E	80 KM	SE 1.8	AVG MAG	4.[illegible]
	+_ 0.7	0.05	0.05	10			

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	21 20 33	D	0.7	0.37	274			
TON	P	21 20 32.8	SE	0.4	0.37	273	3.8		
	S	41		-1.3					
WNZ	E	21 20 41			0.60	6			4.4
	E(S)	44		-1.6					
	E	47							
TUA	P	21 20 38.7	D	0.4	0.97	65		4.5	4.4
	E	46							
	ES	54		1.3					
KRP	P	21 20 43.7		0.4	1.35	344		3.8	4.2
	E	59							
	ES	21 01		-0.2					
	E	05							
GNZ	P	21 20 47.3		0.0	1.67	70		4.4	4.3
	E	53							
	E	57							
	E	21 19							
	E	23							
WEL	EP	21 20 54.8		-0.6	2.27	205	4.1		
	E	21 04							
	E	08							
	ES	22		-0.4					
	E	32							
ECZ	EP	21 20 58.5		-0.4	2.50	53		4.8	4.1
	E	21 11							
	E	47							
COB	EP	21 21 09		1.5	3.13	233	4.2		
	E	46							
	E(S)	48		4.2					
	E	51							
KAI	E	21 21 39			4.80	225	4.1		
	E	22 44							
	E	23 02							
GPZ	EP?	21 21 34		-1.2	5.13	208	4.2		
	E	53							
	E	22 14							
	E	25							
	E(S)	28		-5.7*					
MNW	ES?	21 24 06		-3.4	9.02	221			

64/ [illegible]

	H M S						
NOV 21	04 22 02.3	45.99S	166.48E	12 KM	SE 0.8	AVG MAG	4.[illegible]
	+_ 1.1	0.07	0.05	R			

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP*	04 22 16.5	D	-0.9	0.82	76		4.6	[illegible]
	ES*	28		-0.7					
ROX	EP	04 22 36		0.1	2.05	76		4.6	[illegible]
	PG	44.5		0.7					
	S	23 01.5		0.8					
	E	11							
GPZ	EP	04 23 15		-0.1	4.95	65	3.9		
	E	35							
	E	24 07							
KAI	ES?	04 24 11		0.1	4.95	47	4.2		

64/ [illegible]

	H M S						
NOV 22	00 23 48.2	40.05S	176.93E	12 KM	SE 2.0	AVG MAG	[illegible]
	+_ 1.0	0.06	0.07	R			

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	EP	00 24 11		-0.2	1.25	8			
	ES	25		-3.3					3.7
CNZ	EP	00 24 13	D	0.3	1.36	308			

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TON	E	00 24 15			1.37	308	3.0		
	EPG	19		3.1					
	ES	29		-1.9					
GNZ	EP*	00 24 20		2.6	1.64	31		3.4	3.7
	ES*	39		-0.2					
	ESG	44		0.3					
WEL	S	00 24 47.5		0.9	2.05	232	3.7		
COB	ES	00 25 19		0.7	3.36	251	3.5		
KAI	ES	00 25 54		-0.0	4.84	237	4.1		
GPZ	ES	00 25 52		-2.2	4.84	220	4.3		

64/ 393

	H M S						
NOV 22	08 36 32.2	38.29S	177.00E	33 KM	SE 1.9	AVG MAG	3.7
	+_ 0.8	0.04	0.03	R			

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	P	08 36 42.9		0.2	0.53	167		3.8	3.9
	ES	51		0.8					
	ES*	53		1.9					
GNZ	EP	08 36 46.9		-0.6	0.87	114		4.0	4.1
	E	49							
	E	53							
	E(S*)	37 01		-0.1					
KRP	P	08 36 51.7	D	-0.4	1.21	287		3.2	3.0
	E(P*)	54		-0.5					
	ES	37 08		0.9					
	E(S*)	12		1.0					
CNZ	EP	08 36 55.5		0.1	1.45	231		3.5	3.2
	E	37 08							
	E(S*)	20		1.9					
TON	EP	08 36 56		0.5	1.46	231	2.8		
	E(S*)	37 20		1.7					
TNZ	EP	08 37 07		0.8	2.24	246		3.6	
	E(S*)	38		-3.5					
WEL	E(P*)	08 37 28		-4.6	3.45	209	4.0		
	S	38 00.5		-1.0					
	ES*	16		-1.8					
COB	E	08 38 30			4.32	228	3.8		
KAI	ES	08 39 06		2.7	6.01	224	4.1		
GPZ	ES	08 39 05		-5.9*	6.32	210	4.2		

64/ 394

	H M S						
NOV 22	09 05 33.3	38.64S	175.84E	190 KM	SE 1.3	AVG MAG	4.1
	+_ 0.8	0.05	0.04	6			

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	EP	09 06 01.0	U	1.2	0.60	202		4.0	3.6
	E	06							
	E	28							
TON	EP	09 06 01		1.1	0.61	203	3.1		
	E(S)	20		-0.4					
	E	23							
KRP	IP	09 06 00.0	U	-0.6	0.76	341		4.4	3.8
	E	18							
	E(S)	20		-1.7					
TUA	P	09 06 03.0	U	0.6	1.03	100		4.4	4.4
	E	20							
	ES	24		-1.0					
	E	26							
TNZ	P	09 06 04.8	U	0.5	1.26	244		4.0	3.3
	E	07.5							
	E(S)	30		1.7					
GNZ	EP	09 06 09.0	U	0.6	1.71	91		4.3	4.4
	E	18							
	E	27							
	E	32							
	ES	35		-0.4					
WEL	IP	09 06 21.0	D	0.7	2.77	197	4.6		
	E	56							

		ES			58		1.5				
	COB	E		09	06	41		3.42	223	4.3	
		ES			07	10	-0.4				
	KAI	ES		09	07	48	-1.5	5.14	220	4.5	
	GPZ	EP		09	06	54.5	-1.4	5.59	205	4.7	
		E			07	57					
		S				58.2	-1.8				
	ROX	ES		09	09	02	-3.3*	8.38	213		
	MNW	E(P)		09	07	47	1.6	9.38	218		
		S			09	28.5	-0.3				

64/ 39

	H	M	S								
NOV 23	06	33	30.0	40.68S		176.49E	12 KM	SE	2.1	AVG MAG	3.8
	+-		1.0	0.04		0.05	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	P	06	33	56.0	D	0.5	1.44	244	3.6		
		E		34	03.5							
		ES			13		-1.4					
		E			15							
		ES*			17		2.1					
		E			25							
		E			27							
	CNZ	P	06	33	58.0		-0.1	1.64	334		4.3	3.8
		ES		34	17		-1.9					
		ES*			21		0.0					
	TON	EP	06	33	58		-0.1	1.64	333	3.2		
		ES		34	16		-2.9					
	TUA	E	06	34	12			1.93	16			3.8
		ES			20		-5.6*					
		E(SG)			40		4.7					
	TNZ	EP	06	34	07		1.4	2.20	312		3.6	3.8
		E(P*)			09		0.3					
		ES			34		2.0					
		E(SG)			44		-0.3					
	GNZ	E(S*)	06	34	39		-3.2	2.35	31			3.8
	KRP	E(P)	06	34	15		0.5	2.84	345		3.7	3.8
		E(P*)			20		0.2					
		E			22							
		ES*			56		-1.1					
		E			59							
		E		35	21							
	COB	EP*	06	34	23		2.7	2.88	261	3.3		
		ES			47		-1.9					
	GPZ	ES	06	35	18		-1.4	4.15	222	3.6		

64/ 39

	H	M	S								
NOV 23	11	33	12.1	39.22S		174.87E	229 KM	SE	1.5	AVG MAG	4.1
	+-		0.8	0.06		0.06	6				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	P	11	33	44.0		1.6	0.38	275			
		E			47							
		ES		34	07		1.2					
		E			08							
	TON	E	11	33	46			0.52	88	3.4		
		E(S)		34	06		-0.5					
		E			12							
	CNZ	P	11	33	44.5	D	1.7	0.52	88		3.6	3.8
		E			53							
		E		34	06							
		ES			08		1.5					
		E			20							
	KRP	P	11	33	47.5	D	-0.4	1.40	22		4.1	3.8
		E			55							
		ES		34	13		-2.6					
	TUA	EP	11	33	52		0.5	1.82	78		3.9	3.8
		E(S)		34	21		-0.9					
		E			29							

	WEL	P	11	33	55		1.2	2.06	182	4.2	
		ES		34	27		1.0				
	COB	EP	11	33	58.5		0.5	2.48	221	4.1	
		S		34	32.5		-1.1				
	GNZ	EP	11	33	59.2		0.7	2.52	78		4.5	4.2
		E		34	32							
		E(S)			34		-0.5					
		E			38							
	ECZ	EP	11	34	07		0.2	3.26	63		4.4	3.4
		I			08							
		E(S)			48		-1.2					
	KAI	ES	11	35	07		-2.5	4.22	217	4.4		
	GPZ	E(P)	11	34	25.5		0.5	4.77	200	4.9		
		S		35	19.5		-2.2					
	ROX	E(S)	11	36	20		-3.4*	7.48	212			
	MNW	E(S)	11	36	47		1.1	8.46	217			

64/ 397

	H	M	S								
NOV 25	15	38	29.2	40.61S		174.34E	116 KM	SE	1.0	AVG MAG	3.7
	+-		0.6	0.03		0.03	6				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	P	15	38	50.5	U	1.6	0.75	155	4.0		
		ES		39	04		0.1					
	COB	EP	15	38	55.5		0.7	1.31	248	3.9		
		ES		39	13		-1.1					
	TNZ	P	15	38	56.5		0.5	1.42	1		3.5	3.7
		E		39	13							
		E(S)			17		0.7					
	TON	E	15	39	01			1.68	34			
		ES			21		-0.4					
	CNZ	P	15	38	59		-0.1	1.68	34		3.5	3.7
		E		39	11							
		ES			21		-0.6					
	KRP	EP	15	39	14		-0.2	2.84	19		3.9	3.8
		E			15							
		ES			45		-3.2*					
		E			47							
	KAI	ES	15	39	50		-0.2	2.92	228	3.5		
	GPZ	E(P)	15	39	22		1.2	3.33	202	4.0		
		E			57							
		S			58.5		-1.5					
	GNZ	E	15	39	59			3.45	57			3.6
		E(S)		40	02		-0.9					

64/ 398

	H	M	S								
NOV 28	20	19	24.0	38.60S		176.10E	12 KM	SE	ND	AVG MAG	2.6
				R		R	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	20	19	25		-1.3*	0.03	176			
		E			32							
	KRP	E(P*)	20	19	41		2.1*	0.81	327		2.6	2.5
		EPG			43		2.6*					
		E(SG)			56		4.6*					

64/ 399

	H	M	S								
NOV 29	10	14	36.4	38.37S		176.07E	214 KM	SE	1.3	AVG MAG	3.5
	+-		1.3	0.07		0.06	8				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP	10	15	04.0		-1.7	0.61	316		2.9	
	CNZ	EP	10	15	08.5		1.2	0.93	206		2.7	3.1
		ES			32		0.7					
		E			34							
	TON	ES	10	15	31		-0.3	0.93	206	3.0		
	TNZ	EP	10	15	13		1.0	1.55	238		3.7	
	GNZ	EP	10	15	13		0.9	1.56	101		3.9	3.6
		S			38.5		-1.2					
		E			54							

	WEL	EP	10 15 29		0.8	3.08	199	3.8	
		ES	16 09		0.7				
	COB	S	10 16 21.5		-0.8	3.74	222	3.8	
	GPZ	ES	10 17 10		-1.3	5.92	205	4.2	

64/ 401

	H M S								
DEC 04	08 01 09.0	36.56S	180.00E	162 KM	SE 1.2		AVG MAG	4.4	
	+- 1.6	0.07	0.14	9					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ P	08 01 40.8		-0.2	1.62	225		4.2	4.4
	I(S)	02 05		-0.5					
	E	10							
	GNZ P	08 01 52		-0.5	2.60	216		4.6	4.8
	E	02 32							
	TUA P	08 02 01		1.2	3.18	224		4.8	4.9
	E	47							
	KRP P	08 02 08		0.1	3.81	248		4.4	
	TON E	08 02 18			4.40	232	4.4		
	E	03 13							
	ONE EP	08 02 18		-0.5	4.62	278	4.1		
	TNZ EP	08 02 26		0.5	5.16	238		4.5	
	E	31							
	WEL ES	08 03 52		1.7	6.23	219	5.0		
	COB				7.25	229	4.9		
	KAI ES	08 04 54		-0.0	8.91	225	5.0		
	GPZ ES	08 04 56		-1.9	9.07	216	5.2		

64/ 402

	H M S								
DEC 04	12 20 51.3	38.70S	175.82E	12 KM	SE 1.3		AVG MAG	3.3	
	+- 0.7	0.04	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ EPG	12 20 57		0.5	0.23	72			
	I	59.0							
	I	21 02.2							
	KRP IPG	12 21 07.0	U	-0.8	0.81	344		3.6	3.3
	SG	19		0.2					
	TUA PG	12 21 12.8		0.3	1.04	96		3.3	3.3
	ESG	25		-1.7					
	TNZ EPG	12 21 16		-0.2	1.22	246		3.5	3.5
	E	27							
	GNZ EPG	12 21 28		1.8	1.72	89		3.4	

64/ 403

	H M S								
DEC 05	03 13 24.3	38.66S	175.82E	12 KM	SE 0.6		AVG MAG	3.3	
	+- 0.2	0.01	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ EPG	03 13 29.8		0.5	0.22	83			
	SG	32.5		-0.1					
	KRP PG	03 13 39.8		-0.1	0.77	343		3.9	3.9
	ESG	51		0.6					
	S	52.3		-1.0					
	TUA EP*	03 13 43.5		0.2	1.05	98		3.7	3.9
	PG	45.0		-0.6					
	ES*	57		-0.5					
	TNZ PG	03 13 49.8		0.4	1.24	245		3.7	3.9
	ESG	14 06		-0.2					
	GNZ EPG	03 14 00		0.8	1.72	90		3.7	
	E	02							

64/ 404

	H M S								
DEC 06	03 36 41.1	38.18S	176.37E	12 KM	SE 1.7		AVG MAG	3.4	
	+- 1.1	0.12	0.06	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP PG	03 36 56.0		0.4	0.71	291		3.6	
	TUA EPG	03 37 00.0		1.1	0.87	136			
	E	04							
	TON E	03 37 12			1.21	212	2.5		

	E		16						
	E		42						
	E		38 05						
	GNZ EPG	03 37 08		-1.0	1.37	110		3.9	
	E		15						
	TNZ EPG	03 37 18.0		-0.6	1.85	237		3.7	
	E		25						

64/ 404

	H M S								
DEC 06	07 25 58.1	40.06S	175.04E	33 KM	SE 0.9		AVG MAG	3.9	
	+- 0.3	0.02	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TON P	07 26 13.5		-0.8	0.94	24	3.8		
	S	25.8		-0.4					
	TNZ P	07 26 15.9		0.6	1.02	330		3.7	3.9
	ES	28		-0.0					
	I	32							
	WEL EP	07 26 17.0		-1.3	1.24	190	3.8		
	I	18.0							
	S	34		0.5					
	COB EP	07 26 29		-0.2	2.03	239	3.6		
	E	31							
	S	53		0.3					
	TUA EP	07 26 31		1.4	2.06	53		3.9	4.0
	I	33							
	E	27 09							
	KRP EP	07 26 31		-0.1	2.17	10		4.0	4.0
	I	33.5							
	E	27 02							
	E	07							
	GNZ E	07 26 33			2.71	59			3.8
	E	50							
	KAI				3.68	227	4.0		

64/ 405

	H M S								
DEC 06	07 26 10.1	40.08S	175.17E	33 KM	SE 1.4		AVG MAG	3.7	
	+- 0.6	0.03	0.05	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TON S*	07 26 41		0.7	0.92	18	3.7		
	TNZ ES*	07 26 45		0.1	1.08	325			
	WEL IP*	07 26 31.3		-1.6	1.24	194	3.7		
	S	47		1.4					
	TUA EP*	07 26 46		0.5	1.99	51			
	COB S	07 27 07		0.3	2.11	241	3.7		
	KRP I(P*)	07 26 46.5		-2.1	2.17	8			
	IS*	27 18		0.7					
	E	20							

64/ 406

	H M S								
DEC 06	15 06 52.1	40.07S	175.11E	33 KM	SE 1.6		AVG MAG	4.2	
	+- 0.4	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TON P*	15 07 08.9		-0.9	0.93	21	4.1		
	S*	21.0		-1.5					
	TNZ P*	15 07 11.0		-0.6	1.05	327		4.3	4.4
	I	24							
	I(S*)	28		2.1					
	WEL PN	15 07 12.7		0.3	1.24	192	4.3		
	P*	13.5		-1.4					
	S	29		1.4					
	TUA E(P)	15 07 25.5		2.4	2.02	52		4.2	4.3
	P*	28.5		0.4					
	E	08 02							
	COB EPN	15 07 25		1.2	2.08	240	4.0		
	EP*	27		-2.0					
	S	49		1.2					
	KRP EPN	15 07 26.0		0.9	2.17	9		4.5	

		P•		29.0	-1.5					
		IS•		58	-1.2					
		I	08	02						
	GNZ	EPN	15 07	33.5	1.5	2.67	59		4.4	
		E		44						
		E		50						
	AUC	E	15 07	54		3.21	355		3.2	
	KAI					3.71	227	4.3		
	GPZ	E	15 07	48		4.06	206	4.5		
		SN	08	34	-2.2					
	ONE	E	15 08	04		4.33	352	4.0		
		E		12						

	H	M	S									64/ 4
DEC 06	15	15	48.2	40.06S	175.17E	33 KM	SE	1.3		AVG MAG		3.4
		+-	0.4	0.02	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TON	EP•	15	16 05		-0.5	0.91	19	3.0		
		S•		17		-1.0					
	TNZ	EP•	15	16 08		0.0	1.07	325		3.4	3.4
		S•		24		1.4					
	WEL	IP•	15	16 09.8		-1.4	1.26	194	3.3		
		S		26		1.9					
	TUA	EP•	15	16 25		1.5	1.98	51			
	COB	EP•	15	16 24		-1.8	2.12	240	3.1		
		ES		45		0.1					
	KRP	EP•	15	16 26		-0.4	2.15	8		3.4	3.3
		IS•		55		0.1					
		E		59							
	GPZ	ESN	15	17 33		0.1	4.09	207	3.6		

	H	M	S									64/ 4
DEC 07	08	24	43.6	38.63S	175.77E	12 KM	SE	0.6		AVG MAG		3.1
		+-	0.3	0.01	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	EPG	08	24	49.5		0.1	0.26	91			
	I			51.0							
CNZ	EPG	08	24	56		0.1	0.60	197	2.6		
	E		25	05							
KRP	PG	08	24	57.7		-0.7	0.72	345		3.2	3.1
	SG		25	08.8		0.5					
TNZ	EPG	08	25	08		-0.3	1.22	242		3.0	3.1
	ESG			25		0.2					

	H	M	S									64/ 4
DEC 07	14	23	43.5	38.72S	175.78E	12 KM	SE	1.3		AVG MAG		3.4
		+-	0.4	0.02	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	14	23	51		1.7	0.27	71			
	ISG			55		1.8					
CNZ	PG	14	23	55.0		0.8	0.52	201		2.8	
	I			57.7							
TON	E	14	23	56			0.52	201	2.5		
	ESG		24	01		-0.5					
KRP	IPG	14	23	59.0	U	-1.1	0.81	346		4.1	3.7
	ESG		24	11		-0.2					
TUA	EPG	14	24	05.5		0.1	1.07	95		3.5	3.5
	ESG			18		-1.9					
TNZ	EPG	14	24	07.8		0.1	1.19	246		3.4	3.5
	I			10.0							
	E			26.0							
GNZ	EPG	14	24	19		-0.1	1.75	88		3.4	3.5
	ESG			42		-0.8					

	H	M	S									64/ 4
DEC 07	19	02	47.0	38.71S	175.83E	12 KM	SE	0.5		AVG MAG		3.3
		+-	0.1	0.01	0.01	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	19	02	52.0		-0.1	0.23	69			
		SG			55.1		-0.4					
	CNZ	PG	19	02	58.0		0.0	0.53	204		3.2	
		I		03	01							
		E			05							
	TON	EPG	19	02	58		-0.1	0.54	205	3.0		
		SG		03	06		0.5					
	KRP	IPG	19	03	03.2	U	-0.5	0.82	344		4.5	4.1
		I			05.9							
		SG			15.5		0.6					
	TUA	EPG	19	03	08		-0.1	1.04	96		3.9	4.0
		I			09.1							
		I			22.0							
		I			30.1							
	TNZ	PG	19	03	12.0		0.2	1.22	247		4.1	3.7
		I			14.7							
		ESG			28		-0.4					
	GNZ	E(PG)	19	03	22.5		0.7	1.72	88		4.0	
		I			26							
	WEL	EP•	19	03	34		-0.2	2.70	197	3.6		
		E		04	16							
	COB							3.36	224	3.5		

	H	M	S									64/ 411
DEC 07	20	24	28.0	38.71S	175.83E	12 KM	SE	1.1		AVG MAG		3.6
		+-	0.3	0.02	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	20	24	33.9		0.9	0.22	70			
	I			36.1							
	SG			37.7		1.3					
CNZ	PG	20	24	39.0		-0.1	0.54	204			
TON	EPG	20	24	39		-0.2	0.54	205	2.7		
	ESG			47		0.3					
KRP	IPG	20	24	43.3	D	-1.3	0.82	343		3.8	4.0
	I(SG)			56		0.3					
TUA	PG	20	24	47.7		-1.3	1.04	96		3.8	3.6
	I			48.8							
	E			50.5							
	E			58							
	ESG		25	02		-1.0					
TNZ	EPG	20	24	51.7		-1.2	1.23	247		3.7	3.7
	I			52.8							
	E(SG)		25	11		1.5					
GNZ	EPG	20	25	04		1.3	1.72	89		3.7	
WEL	EP•	20	25	15		-0.3	2.70	197	3.3		

	H	M	S									64/ 412
DEC 08	07	56	24.8	38.72S	175.86E	12 KM	SE	0.7		AVG MAG		3.4
		+-	0.2	0.01	0.01	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	07	56	29.2		-0.4	0.21	65			
	I			30.2							
	SG			33.5		0.7					
TON	EPG	07	56	37		1.1	0.54	207	2.4		
	ESG			43		-0.4					
KRP	IP•	07	56	41.0	U	0.9	0.83	342		3.9	3.7
	IS•			51		-0.5					
	ISG			53		-0.1					
TUA	EPG	07	56	45.0		-0.4	1.02	95		3.5	3.6
	I			46.8							
	SG			59.0		-0.2					
TNZ	EPG	07	56	49.0		-0.9	1.24	248		3.5	3.5
	I			51.6							
	I(SG)		57	07		0.3					
GNZ	E	07	57	03			1.70	88		3.4	
	E			09							

		H	M	S									
													64/ 41
DEC 08		17	22	19.0	38.71S	175.87E	12 KM	SE	0.6	AVG MAG	3.4		
		+-		0.2	0.02	0.01	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG			17	22	23.8		0.2	0.20	67		
		I					24.8						
		SG					27.3		0.7				
	KRP	IPG			17	22	35.0	U	-0.8	0.82	342	4.0	3.7
		I					45.3						
		SG					47.3		0.3				
	TUA	EPG			17	22	39.0		-0.5	1.01	96	3.5	3.6
		I					40.8						
		SG					53.0		-0.1				
	TNZ	EPG			17	22	44.0		-0.4	1.25	247	3.6	3.4
		I					45.9						
		ESG				23	02		0.6				
	GNZ	E			17	22	56			1.69	88	3.4	
		E				23	22						

		H	M	S									
													64/ 41
DEC 08		19	45	09.1	38.64S	175.85E	12 KM	SE	0.9	AVG MAG	3.5		
		+-		0.4	0.02	0.02	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG			19	45	14.0		0.4	0.20	88		
		I					14.8						
		SG					16.2		-0.4				
	KRP	IPG			19	45	24.1	U	-0.4	0.75	341	3.5	3.5
		ISG					35		0.3				
		I					39						
	TUA	E			19	45	28			1.03	100	3.5	3.4
		E					43						
	TNZ	EPG			19	45	33.5		-1.4	1.27	244	3.5	3.3
		E					36.2						
		E(SG)					53		0.9				
	GNZ	EPG			19	45	44		0.5	1.70	91	3.4	

		H	M	S									
													64/ 41
DEC 09		00	56	08.4	38.66S	175.84E	12 KM	SE	0.6	AVG MAG	3.8		
		+-		0.2	0.02	0.01	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	EPG			00	56	13.4		0.3	0.21	81		
		SG					17.2		0.9				
	KRP	PG			00	56	24.1		-0.2	0.78	342	4.0	4.1
		SG					34.8		-0.1				
		I					36.2						
	TUA	EPG			00	56	28.5		-0.9	1.03	98	3.7	3.8
		I					30.0						
		SG					43.2		-0.2				
	TNZ	EPG			00	56	34.0		0.1	1.25	245	3.6	3.6
		E					35.0						
		SG					51.0		0.2				
		I					53.8						
		I					58.0						
	GNZ	E			00	56	48			1.71	90		

		H	M	S									
													64/ 4
DEC 09		12	38	38.4	38.74S	175.94E	12 KM	SE	0.7	AVG MAG	3.3		
		+-		0.3	0.02	0.02	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG			12	38	43.0		0.7	0.16	50		
		I					46.9						
	CNZ	EPG			12	38	50		0.1	0.56	213	3.1	
		I					52						
	KRP	PG			12	38	55.7		-0.4	0.87	338	3.3	3.3
		ESG				39	08		0.1				
		I					11.8						

	TUA	EPG		12	38	57.2		-0.5	0.95	95		3.5	
		E				59.0							
	TNZ	E		12	39	03			1.30	249		3.5	3.2
		E				23							

		H	M	S									
													64/ 417
DEC 09		12	40	37.2	38.81S	175.86E	12 KM	SE	0.9	AVG MAG	3.3		
		+-		0.4	0.03	0.02	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG			12	40	43.2		0.4	0.26	48		
		SG					46.9		0.3				
	CNZ	EP			12	40	49.2		-1.2	0.46	211		
		I					51.0						
	KRP	EP			12	40	55.3		-0.5	0.91	344	3.2	3.1
		ESG				41	08		-0.2				
		E					11.5						
	TUA	EPG			12	40	57.8		0.1	1.01	91	3.3	
		E					59.2						
	TNZ	EPG			12	41	03		1.2	1.21	251	3.5	3.1
		E					22						

		H	M	S									
													64/ 418
DEC 09		13	27	20.8	38.67S	175.83E	12 KM	SE	0.7	AVG MAG	3.9		
		+-		0.2	0.01	0.01	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	EPG			13	27	26.3		0.6	0.21	79		
		I					30.7						
		I					31.7						
	CNZ	PG			13	27	32.8		0.2	0.57	203	3.8	
		E					36.0						
	KRP	IPG			13	27	37.0		0.3	0.78	343	4.4	4.3
		SG					47.0		-0.4				
		E					50.2						
	TUA	PG			13	27	41.7		-0.2	1.04	98	3.8	4.0
		SG					56.2		0.2				
	TNZ	PG			13	27	45.8		-0.3	1.24	245		3.9
		SG				28	04		1.1				
	GNZ	EPG			13	27	55		-0.5	1.71	90	3.9	3.5
		E					59						
		E				28	24						
	WEL	EP*			13	28	12		3.3*	2.74	197	3.6	
		ES*					45		0.3				
		E					51						
	COB	EP*			13	28	20		0.1	3.39	224	3.9	
		ES*				29	03		-1.4				

		H	M	S									
													64/ 419
DEC 09		21	45	08.5	38.64S	175.81E	12 KM	SE	1.0	AVG MAG	3.3		
		+-		0.4	0.02	0.02	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	EPG			21	45	14.4		0.8	0.23	87		
		I					15.8						
		SG					18.2		1.2				
	KRP	IPG			21	45	23.2	U	-0.5	0.75	343	3.4	3.3
		ESG					34		0.1				
	TUA	EPG			21	45	30		-0.0	1.06	99	3.4	3.3
		ESG					43		-1.4				
	TNZ	PG			21	45	33.0		-0.6	1.24	244	3.5	3.2
		SG					51.0		0.6				

		H	M	S									
													64/ 420
DEC 10		01	02	30.0	38.65S	175.80E	12 KM	SE	1.2	AVG MAG	3.2		
		+-		0.4	0.02	0.02	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG			01	02	35.2		-0.1	0.24	85		
		E					37.8						
		SG					38.8		-0.0				

	C_NZ	PG	01 02 40.2		-1.7	0.58	200		2.9	2.9	
		I	43.0								
		I	50								
	TON	E	01 02 43			0.58	200	2.5			
		ESG	49		-1.0						
	KRP	PG	01 02 44.8		-0.6	0.76	344		3.7	3.7	
		SG	55		-0.7						
	TUA	E(PG)	01 02 53		1.3	1.07	99		3.5	3.5	
		E	03 03								
		ESG	06		-0.2						
	TNZ	P	01 02 54		1.4	1.23	244		3.3	3.3	
		ES	03 11		1.6						

64/ 42

	H M S									
DEC 10	11 39 12.1	38.53S	175.49E	168 KM	S_E 2.1		AVG MAG	4.3		
	+- 0.9	0.04	0.06	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP	11 39 37.1	D	1.0	0.60	4		4.7	4.7	
	S	54		-0.6						
	CNZ P	11 39 38.2		1.7	0.67	176		4.0		
	TON P	11 39 38		1.4	0.68	167	3.3			
	ES	56		0.6						
	TNZ P	11 39 40.9		1.4	1.09	232		4.1	3.8	
	S	40 02		1.4						
	TUA P	11 39 41.7		0.0	1.33	103		4.5	4.8	
	E	59								
	E	40 01								
	AUC EP	11 39 47		1.0	1.76	341				
	GNZ P	11 39 48.7	U	0.2	1.99	94		4.6	5.1	
	ES	40 15		-1.6						
	ECZ P	11 39 55		-0.3	2.55	72		4.3	4.7	
	ES	40 27		-1.4						
	WEL P	11 39 57.7		-0.9	2.81	191	5.1			
	S	40 32		-2.2						
	ONE E	11 40 02			2.89	341	3.6			
	ES	33		-2.9						
	COB E(P)	11 40 07		2.0	3.32	219	4.8			
	S	44		-1.6						
	KAI E(P)	11 40 30		2.5	5.06	217	4.8			
	S	41 22		-3.8						
	GPZ S	11 41 30.5		-7.8*	5.59	202	5.4			
	MNW E(P)	11 41 28		4.4	9.31	216.				
	ES	43 04		-2.4						

64/ 42

	H M S									
DEC 10	14 59 43.9	38.59S	175.90E	12 KM	S_E 0.8		AVG MAG	3.4		
	+- 0.3	0.02	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ PG	14 59 48.0		0.1	0.16	104				
	SG	50.9		0.4						
	KRP IPG	14 59 58.1	U	-0.6	0.72	337		3.4	3.3	
	ESG	15 00 09		0.4						
	TUA EPG	15 00 03.0		-1.3	1.00	103		3.5	3.3	
	E	17.0								
	TNZ EP	15 00 07.5		-0.4	1.33	243		3.5	3.3	
	I	08.3								
	S	26.2		0.5						
	GNZ E(PG)	15 00 18.5		0.9	1.66	92		3.7		

64/

	H M S									
DEC 10	15 24 24.4	38.64S	175.79E	12 KM	SE 1.3		AVG MAG	3.3		
	+- 0.7	0.04	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ EPG	15 24 30.2		0.4	0.24	89				
	I	31.6								
	KRP PG	15 24 39.0		-0.5	0.74	344		3.1	3.3	
	SG	50.0		0.4						

	T_NZ	EPG	15 24 48		-1.3	1.23	243		3.5	3.2	
		ESG	25 07		1.0						

64/ 424

	H M S									
DEC 11	04 24 34.9	38.65S	175.75E	12 KM	SE 0.6		AVG MAG	3.4		
	+- 0.2	0.01	0.01	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ PG	04 24 40.8		-0.1	0.28	87				
	I	42.6								
	TON EPG	04 24 47		0.2	0.58	196	2.6			
	ESG	54		-0.8						
	KRP PG	04 24 49.5		-0.5	0.74	347		3.5	3.7	
	ISG	25 00		-0.0						
	I	02.0								
	TUA EPG	04 24 58		0.6	1.11	99		3.6		
	TNZ EPG	04 24 59		-0.1	1.20	243		3.5	3.4	
	I	25 01								
	ESG	16		0.7						

64/ 425

	H M S									
DEC 11	18 39 28.2	38.59S	175.72E	12 KM	SE ND		AVG MAG	3.0		
	ND	ND	ND	ND						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ PG	18 39 34.7		-0.0	0.30	98				
	I	35.1								
	CNZ EPG	18 39 41		-0.0	0.62	193		2.8		
	TON E	18 39 46			0.63	193				
	KRP PG	18 39 42.2		-0.0	0.68	348		2.9	2.9	
	I	52.8								
	TUA E	18 39 47			1.14	101		3.4		

64/ 426

	H M S									
DEC 11	18 46 16.7	38.70S	175.88E	12 KM	SE 0.7		AVG MAG	4.1		
	+- 0.3	0.02	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ PG	18 46 21.3		0.3	0.18	69				
	SG	24.0		0.1						
	CNZ IPG	18 46 28	D	-0.4	0.57	207		4.0		
	I	36								
	TON PG	18 46 28		-0.5	0.57	208	3.5			
	SG	36		-0.4						
	KRP IPG	18 46 32.6	U	-0.8	0.82	340		4.7		
	TUA PG	18 46 37.0		-0.0	1.00	97		4.3	4.0	
	I	38.1								
	E(SG)	48		-2.5*						
	TNZ PG	18 46 44		1.5	1.27	247		4.5		
	GNZ EPG	18 46 50.8		0.1	1.68	89		4.3		
	I	54								
	WEL P*	18 47 04.5		0.1	2.72	198	3.9			
	E	44								
	COB E	18 47 12			3.40	224	3.9			
	E	52								
	KAI				5.12	220	4.4			

64/ 427

	H M S									
DEC 11	19 09 59.0	38.59S	175.78E	12 KM	SE ND		AVG MAG	3.0		
	ND	ND	ND	ND						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ PG	19 10 04.7		-0.0	0.26	99				
	CNZ PG	19 10 12		0.0	0.63	196		2.8		
	TON E	19 10 15			0.64	197				
	KRP PG	19 10 13.2		-0.0	0.69	344		3.1	3.2	
	I	25.0								
	TUA E	19 10 17			1.10	102				

```
          H  M  S                                                         64/ 4
DEC 11   21 04 01.1    38.72S  175.82E   12 KM   SE  0.6    AVG MAG  3.9
              +_  0.2    0.01     0.01      R
                          H  M  S    DIR   RES    DIST   AZ    W-A  W P  W S
          WNZ    PG      21 04 06.3        -0.2   0.24   69
                 ISG           11           1.0
          CNZ    P       21 04 14          -1.0   0.52  204          3.8
          TON    EPG?    21 04 12          -0.1   0.53  204   2.9
                 E             14
                 SG            20           0.6
          KRP    IPG     21 04 18.0   U     0.1   0.82  344          4.4  4.3
                 ISG           29          -0.1
          TUA    EPG     21 04 22.0        -0.4   1.05   95          4.1  4.1
                 SG            36.0        -0.6
          TNZ    PG      21 04 26.2         0.4   1.21  247               3.9
                 I             45
          GNZ    PG      21 04 35.8        -0.3   1.73   88          4.1  3.7
                 ESG        05 00           0.5
          WEL                                     2.69  197   3.7
          COB                                     3.35  224   3.8

          H  M  S                                                         64/ 4
DEC 11   23 38 39.9    38.73S  175.80E   12 KM   SE  0.7    AVG MAG  4.1
              +_  0.2    0.01     0.01      R
                          H  M  S    DIR   RES    DIST   AZ    W-A  W P  W S
          WNZ    IPG     23 38 46.0   D     0.4   0.26   67
                 I             50.0
          CNZ    PG      23 38 49          -1.3   0.50  202          3.9
          TON    EPG     23 38 50          -0.4   0.51  203   3.2
                 SG            58           0.5
          KRP    IPG     23 38 56.6        -0.3   0.83  346          4.5  4.5
                 ESG        39 08          -0.2
          TUA    EPG     23 39 01.0        -0.5   1.06   94          4.3  4.1
                 ESG           16           0.1
          TNZ    PG      23 39 04.2         0.1   1.19  247          4.3  4.2
                 ESG           21           0.8
          GNZ    EPG     23 39 16.0         0.7   1.75   88          4.1
                 I             19.0
          WEL                                     2.67  197   3.8
          COB                                     3.33  224   3.8

          H  M  S                                                         64/ 4
DEC 12   00 32 10.6    38.65S  175.85E   12 KM   SE  0.5    AVG MAG  3.7
              +_  0.2    0.01     0.01      R
                          H  M  S    DIR   RES    DIST   AZ    W-A  W P  W S
          WNZ    PG      00 32 15.5         0.3   0.20   85
                 SG            19.0         0.8
          CNZ    PG      00 32 23           0.1   0.60  203          3.6
          TON    EPG     00 32 23          -0.0   0.60  204   2.5
                 ESG           31          -0.3
          KRP    IPG     00 32 26.7         0.5   0.76  341          4.1  3.9
                 E(SG)         36          -0.6
          TUA    PG      00 32 31.0        -0.5   1.03   99          3.9  3.7
                 ESG           45          -0.5
          TNZ    EPG     00 32 36.0        -0.3   1.27  245          3.8  3.7
                 ESG           54           0.6
          GNZ    EPG     00 32 47           1.9*  1.70   91          3.8
                 E             50

          H  M  S                                                         64/ 4
DEC 12   09 39 01.3    38.69S  175.88E   12 KM   SE  1.1    AVG MAG  4.1
              +_  0.4    0.04     0.02      R
                          H  M  S    DIR   RES    DIST   AZ    W-A  W P  W S
          WNZ    PG      09 39 05.9         0.2   0.19   72
                 I             10.2
          CNZ    PG      09 39 13.1         0.0   0.57  207          3.3  3.7
```



```
                 E             18.5
          KRP    IPG     09 39 17.8   U    -0.0   0.81  341          4.3  4.5
                 I             31
          TUA    PG      09 39 21.2        -0.5   1.00   97          4.0
          TNZ    PG      09 39 25.9        -1.1   1.27  247          4.4  4.0
                 I             26.5
                 ISG           45           0.8
          GNZ    EPG     09 39 37           1.7   1.68   89          4.1  3.7
                 ES            50          -1.1
                 E          40 05

          H  M  S                                                      64/ 432
DEC 12   13 28 39.7    38.64S  175.87E   12 KM   SE  0.6    AVG MAG  4.1
              +_  0.2    0.02     0.01      R
                          H  M  S    DIR   RES    DIST   AZ    W-A  W P  W S
          WNZ    PG      13 28 44.0         0.0   0.18   89
                 SG            46.8        -0.0
          CNZ    PG      13 28 52.2        -0.2   0.62  204          3.7  3.7
                 E          29 02.8
          KRP    IPG     13 28 55.2         0.0   0.76  340          4.5  4.4
                 I          29 09
          TUA    P       13 28 59.8         0.2   1.02  100          4.4
                 I          29 02.0
          TNZ    PG      13 29 04.8        -1.0   1.29  244          3.8  3.7
                 I             06.5
                 ESG           24           0.8
                 E             40
          GNZ    EPG     13 29 14.0         0.1   1.69   91          4.4  4.1
                 I             17
                 E             43

          H  M  S                                                      64/ 433
DEC 12   14 04 07.6    38.72S  175.77E   12 KM   SE  0.8    AVG MAG  3.8
              +_  0.3    0.01     0.01      R
                          H  M  S    DIR   RES    DIST   AZ    W-A  W P  W S
          WNZ    PG      14 04 13.8         0.2   0.28   71
                 SG            17.8         0.2
          CNZ    PG      14 04 18.7         0.6   0.51  200          3.5
                 E             23.5
          TON    (PG)    14 04 18.4         0.2   0.51  200   2.9
                 SG            24.7        -0.6
          KRP    IPG     14 04 24.4         0.2   0.82  347          4.0  4.3
                 SG            34.8        -0.5
          TUA    PG      14 04 29.4        -0.2   1.08   95          4.1  3.8
                 E             32.3
                 ESG           43          -1.3
          TNZ    PG      14 04 31.4        -0.1   1.18  246          4.0  3.6
                 E             49
          GNZ    EPG     14 04 44.9         1.5   1.77   88          4.1
                 E             47
          WEL                                     2.68  196   3.6
          COB                                     3.32  224   3.8

          H  M  S                                                      64/ 434
DEC 12   14 05 23.9    38.73S  175.77E   12 KM   SE  0.5    AVG MAG  4.5
              +_  0.2    0.02     0.01      R
                          H  M  S    DIR   RES    DIST   AZ    W-A  W P  W S
          WNZ    PG      14 05 30.3         0.3   0.28   69
                 I             33.0
                 SG            34.0        -0.1
          CNZ    PG      14 05 34.6         0.5   0.49  200
                 I             39.5
          TON    E       14 05 39.2               0.50  201   3.8
                 I             45
          KRP    PG      14 05 41.1         0.3   0.83  347          4.7
                 SG            54.6         2.6*
          TUA    PG      14 05 45.9        -0.1   1.09   94          5.0  4.6
```

		E			5_1					
		ESG		06	01	0.3				
	TNZ	PG	14	05	47.2	-0.5	1.17	247	4.7	4.1
		E		06	11					
	GNZ	PG	14	05	59.0	-0.7	1.77	88	5.0	
		I		06	11					
	WEL						2.66	196	3.9	
	COB						3.31	224	4.0	
	KAI						5.03	220	4.6	
	GPZ						5.48	204	4.3	

64/ 438

	H	M	S										
DEC 12	14	06	13.4	38.80S	175.83E	12 KM	SE	0.5	AVG MAG	4.5			
	+-		0.3	0.02	0.01	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		14	06	19.5		0.1	0.28	52			
	TON	E		14	06	32			0.46	209	3.8		
	KRP	PG		14	06	31.3		-0.5	0.90	345		4.7	
		SG				44.3		0.2					
	TUA	PG		14	06	35.0		0.6	1.04	91		4.8	4.5
		ESG				48		-0.4					
	TNZ	EPG		14	06	37.5		-0.0	1.19	251		4.9	
		I				39							
	GNZ	E		14	06	54			1.73	85		5.0	
	WEL								2.61	198	4.2		
	COB								3.29	225	4.1		
	KAI								5.01	221	4.6		
	GPZ								5.44	205	4.5		

64/ 439

	H	M	S										
DEC 12	19	03	10.5	33.39S	179.08W	335 KM	SE	0.7	AVG MAG	5.2			
	+-		0.8	0.08	0.12	9							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	P		19	04	39		0.6	5.74	203		4.6	4.9
		ES			05	47		-0.5					
	TUA	EP		19	04	44		0.1	6.21	208			
		ES			05	58		0.8					
	KRP	EP		19	04	45		0.1	6.30	223			
	CNZ	EP		19	04	55		-1.1	7.24	215			
		ES			06	22		2.9*					
	TON	ES		19	06	19		-0.2	7.25	215	4.8		
	TNZ	EP		19	05	04		0.9	7.83	221			
	WEL	P		19	05	20		-0.6	9.28	210	5.7		
		S			07	03		-0.2					
	COB	ES		19	07	20		-0.7	10.07	218	5.5		
	KAI	ES		19	07	59		0.7	11.80	217	5.3		
	GPZ	ES		19	08	06		0.2	12.15	210	5.5		

64/ 439

	H	M	S										
DEC 12	23	09	57.5	38.71S	175.81E	12 KM	SE	0.2	AVG MAG	3.8			
	+-		0.1	0.00	0.00	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		23	10	02.9		0.1	0.24	72			
		SG				06.2		-0.1					
	CNZ	PG		23	10	08.5		-0.1	0.54	203		3.3	3.8
		I				09.1							
		E				26							
	TON								0.54	203	2.8		
	KRP	PG		23	10	13.8		-0.2	0.81	344		3.9	4.2
		SG				25.2		0.2					
	TUA	PG		23	10	18.8		-0.1	1.05	96		3.8	3.9
		SG				33.3		0.2					
	TNZ	EPG		23	10	22.3		0.1	1.22	246		3.6	3.9
		E				42.8							
	GNZ	EPG		23	10	34.8		2.2*	1.73	89		3.8	

64/ 438

	H	M	S										
DEC 12	23	43	11.7	38.68S	175.83E	12 KM	SE	0.6	AVG MAG	4.0			
	+-		0.3	0.02	0.02	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	(PG)		23	43	17.4		0.8	0.22	78			
		SG				19.2		-0.7					
		I				20.8							
	CNZ	PG		23	43	23.5		0.2	0.57	203			
	TON								0.57	203	3.1		
	KRP	PG		23	43	27.8		0.0	0.79	343		4.3	4.4
		I				41.5							
	TUA	PG		23	43	32.5		-0.4	1.04	98		4.3	
	TNZ	PG		23	43	36.5		-0.4	1.24	245		4.2	3.9
		E(SG)				57		3.4*					
	GNZ	EPG		23	43	47.0		0.5	1.72	90		4.2	3.6
		I				50.0							
		E			44	13							

64/ 439

	H	M	S										
DEC 13	00	13	32.8	35.09S	177.37W	280 KM	SE	2.4	AVG MAG	5.3			
	+-		3.1	0.22	0.29	32							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		00	14	40		-0.7	4.19	231			
	GNZ	P		00	14	50.5		-1.0	5.12	225		4.8	
	TUA	P		00	14	59.0		-0.1	5.74	228		5.1	5.0
		S			16	10		3.4					
	ONE	P		00	15	14.8		3.0	6.78	262			
	CNZ	E		00	15	20			6.98	232			
		ES			16	32		-2.0					
	TON	ES		00	16	33		-1.2	6.99	232	5.1		
	TNZ	EP?		00	15	22		-1.9	7.75	236			
	WEL	E		00	15	56			8.75	223	5.7		
		S			17	14		0.7					
	COB	ES		00	17	35		-2.6	9.83	230	5.5		
	KAI	ES		00	18	14		-0.5	11.47	226	5.4		
	GPZ	ES		00	18	19		2.9	11.54	219	5.4		

64/ 440

	H	M	S										
DEC 13	00	26	28.2	38.68S	175.81E	12 KM	SE	0.5	AVG MAG	3.8			
	+-		0.2	0.01	0.01	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	IPG		00	26	33.2		-0.2	0.23	78			
		SG				37.5		0.7					
	CNZ	PG		00	26	39.2		-0.5	0.56	202		3.6	
		I				41.0							
		I				49							
	TON								0.56	202	2.9		
	KRP	IPG		00	26	44.0		-0.2	0.78	344		4.2	4.1
		SG				54.8		-0.1					
	TUA	PG		00	26	49.0		-0.6	1.05	97		3.8	3.7
		ESG			27	04		0.1					
	TNZ	PG		00	26	52.7		-0.3	1.22	245		3.9	4.0
		SG			27	10.4		0.8					
		I				11.4							
	GNZ	EPG		00	27	03.5		0.3	1.73	89		3.8	

64/ 441

	H	M	S										
DEC 13	08	08	42.7	38.70S	175.80E	12 KM	SE	0.7	AVG MAG	3.7			
	+-		0.4	0.02	0.02	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		08	08	46.8		-1.3	0.24	74			
		I				52.3							
	CNZ	EPG		08	08	53.8		-0.0	0.54	202		3.4	
		E				59.4							
	TON								0.55	202	2.9		
	KRP	PG		08	08	59.2		0.2	0.80	345		4.3	4.0

		ISG		09 10		0.1				
	TUA	EPG		08 09 04.5		0.3	1.06	96		3.8 3.7
		SG		19.0		0.5				
	GNZ	PG		08 09 18.0		0.1	1.74	89		3.6
		E		22.0						

64/ 445

	H	M	S							
DEC 13	10	23	39.6	38.79S	175.77E	12 KM	SE	0.5	AVG MAG	4.2
	+_		0.2	0.01	0.01	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		10	23 46.1		0.0	0.30	58			
		I			51.2							
	CNZ	PG		10	23 48.7		-0.1	0.44	203			
	TON	EPG		10	23 49.0		0.1	0.45	204	3.4		
		SG			55.8		0.7					
	KRP	PG		10	23 57.1		-0.5	0.89	348		4.1	4.2
		SG			24 10.4		0.8					
	TUA	PG		10	24 01.6		0.2	1.08	91		4.1	
		E			11.8							
	TNZ	PG		10	24 03.0		-0.0	1.15	250		4.6	4.3
		SG			18.0		-0.6					
	GNZ	EPG		10	24 14.8		-0.5	1.77	86		4.4	

64/ 446

	H	M	S							
DEC 13	11	26	45.2	38.68S	175.82E	12 KM	SE	0.6	AVG MAG	3.8
	+_		0.2	0.01	0.01	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		11	26 50.2		-0.1	0.22	78			
		SG			54.3		0.7					
	CNZ	PG		11	26 56.5		-0.3	0.56	202		3.0	
		I			58.5							
	TON	EPG		11	26 57		0.0	0.57	203	2.9		
		SG			27 04		-0.8					
	KRP	PG		11	27 01.1		-0.1	0.78	343		4.1	3.9
		SG			11.4		-0.5					
	TUA	EPG		11	27 07.0		0.5	1.05	98		3.7	3.6
		SG			20.3		-0.4					
	TNZ	PG		11	27 10.3		0.0	1.23	245		3.8	3.7
		SG			28.0		1.0					
	GNZ	PG		11	27 23.5		3.4*	1.72	90			

64/ 447

	H	M	S							
DEC 13	12	46	25.3	38.71S	175.83E	12 KM	SE	0.6	AVG MAG	4.2
	+_		0.2	0.02	0.01	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		12	46 30.8	U	0.3	0.23	70			
		SG			34.8		0.9					
	CNZ	PG		12	46 36.2		-0.1	0.53	204		3.8	
	TON	EPG		12	46 36.5		0.0	0.54	205	3.2		
		SG			43.8		-0.1					
	KRP	IPG		12	46 41.4	U	-0.6	0.82	344		4.5	4.4
		I			57.0							
	TUA	PG		12	46 45.9		-0.6	1.04	96		4.4	3.9
		ESG			47 00		-0.5					
	TNZ	PG		12	46 49.7		-0.5	1.22	247		4.5	4.1
		SG			47 07.5		0.8					
	GNZ	EPG		12	47 00.5		0.3	1.72	88		4.4	
		I			09.0							

64/ 448

	H	M	S							
DEC 13	13	47	34.6	38.69S	175.83E	12 KM	SE	0.7	AVG MAG	3.5
	+_		0.3	0.02	0.01	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		13	47 40.3		0.8	0.22	74			
		SG			42.8		0.0					
	CNZ	PG		13	47 45.7		-0.3	0.55	204		3.2	3.1
		E			49.5							

		E		55.5						
	TON						0.56	204	2.7	
	KRP	IPG		13 47 50.4		-0.5	0.80	343	4.0	3.9
		I		48 03.7						
	TUA	PG		13 47 54.9		-0.7	1.04	97	3.8	3.7
		SG		48 09.2		-0.4				
	TNZ	PG		13 48 00.0		0.3	1.24	246	3.6	3.5
		E		17						
	GNZ	EPG		13 48 10		0.7	1.71	89	3.8	

64/ 446

	H	M	S							
DEC 13	13	48	53.7	38.65S	175.84E	12 KM	SE	0.4	AVG MAG	3.7
	+_		0.2	0.01	0.01	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		13	48 58.3		-0.1	0.21	84			
		SG			49 02.0		0.4					
	CNZ	PG		13	49 05.3		-0.6	0.59	203		3.2	3.5
		SG			14.5		0.5					
	TON							0.60	203	2.7		
	KRP	PG		13	49 09.4		0.0	0.77	342		4.2	4.1
		I			22.4							
	TUA	PG		13	49 14.2		-0.6	1.04	99		4.1	3.8
		SG			28.7		-0.1					
	TNZ	PG		13	49 19.2		-0.1	1.26	245		3.8	
		SG			36.4		0.1					
	GNZ	EPG		13	49 28.8		0.5	1.71	90		4.3	

64/ 447

	H	M	S							
DEC 13	18	31	23.8	38.67S	175.81E	12 KM	SE	0.8	AVG MAG	3.9
	+_		0.2	0.02	0.01	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		18	31 29.0		0.0	0.23	81			
		SG			33.2		0.8					
	CNZ	PG		18	31 34.8		-0.7	0.57	201		3.5	3.7
		E			41							
	TON							0.58	201	3.2		
	KRP	PG		18	31 39.3		-0.2	0.77	344		4.3	4.0
		SG			49.9		-0.1					
	TUA	PG		18	31 44.0		-1.3	1.06	98		3.9	3.8
		ESG			32 00		0.4					
	TNZ	PG		18	31 48.6		-0.1	1.23	245		4.1	4.3
		SG			32 06.3		0.9					
	GNZ	EPG		18	31 59.3		0.4	1.73	90		3.9	

64/ 448

	H	M	S							
DEC 13	20	02	41.4	38.69S	175.84E	12 KM	SE	0.9	AVG MAG	3.3
	+_		0.3	0.02	0.02	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		20	02 47.8		1.7	0.21	74			
		I			50.3							
	CNZ	PG		20	02 52.4		-0.5	0.56	204		3.1	3.0
		E			03 04.2							
	TON							0.57	205	2.3		
	KRP	IPG		20	02 57.9		0.2	0.80	342		3.9	3.6
		SG			03 07.9		-0.7					
	TUA	EPG		20	03 02.0		-0.3	1.03	97		3.5	3.4
		SG			15.5		-0.7					
	TNZ	EPG		20	03 06.3		-0.3	1.25	246		3.5	3.4
		E			07.2							
		SG			24.0		0.5					
	GNZ	E		20	03 18.7			1.71	89		3.6	

64/ 449

	H	M	S							
DEC 13	21	23	47.3	38.69S	175.78E	12 KM	SE	1.5	AVG MAG	3.4
	+_		0.6	0.03	0.03	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	21	23	54.0		0.9	0.26	77			
		SG			58.0		1.1					
	CNZ	PG	21	23	58.2		-0.3	0.54	199		3.1	
	TON							0.54	200	2.4		
	KRP	IPG	21	24	03.3	U	-0.1	0.79	346		3.8	3.8
		SG			13.4		-0.7					
	TUA	EPG	21	24	07.8		-1.5	1.08	97		3.8	3.6
		SG			22.0		-1.9					
	TNZ	EPG	21	24	12.0		0.4	1.20	245		3.8	3.1
		E			13.0							
		E			29.8							
	GNZ	EPG	21	24	25		2.0	1.76	89		3.6	

64/ 451

	H	M	S						
DEC 13	22	36	13.8	38.70S	175.87E	12 KM	SE	0.8	AVG MAG 3.8
	+-		0.3	0.02	0.01	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	SG	22	36	21.5		0.2	0.20	71			
	CNZ	PG	22	36	25.1		-0.2	0.56	206		3.4	
	KRP	PG	22	36	29.3		-1.0	0.81	341		4.0	4.2
		SG			41.9		0.5					
	TUA	PG	22	36	33.7		-0.6	1.01	97		3.9	3.7
		SG			47.8		-0.2					
	TNZ	PG	22	36	38.8		-0.5	1.26	247		3.6	3.5
		SG			57.0		0.7					
	GNZ	PG	22	36	49.0		1.0	1.69	89		4.0	
		E			51.0							

64/ 452

	H	M	S						
DEC 13	22	36	46.9	38.63S	175.91E	12 KM	SE	1.1	AVG MAG 3.8
	+-		0.5	0.03	0.02	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	(PG)	22	36	50.0		-0.7	0.15	91			
		SG			53.7		0.5					
	KRP	PG	22	37	01.3		-1.1	0.76	337		3.9	3.9
		SG			13.4		0.7					
	TUA	P	22	37	05.8		-0.6	0.99	101		3.9	3.7
		S			20.0		-0.8					
	TNZ	S	22	37	28.8		0.4	1.31	245			3.5
	GNZ	PG	22	37	22.0		1.5	1.66	91		4.0	
		E			23.8							

64/ 453

	H	M	S						
DEC 14	01	45	47.9	38.71S	175.81E	12 KM	SE	0.4	AVG MAG 3.8
	+-		0.1	0.01	0.01	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	01	45	53.3		0.1	0.24	72			
		SG			57.4		0.7					
	CNZ	PG	01	45	59.2		0.3	0.53	203		3.7	3.6
		SG			46 06.2		-0.1					
	TON	E	01	46	00			0.54	203	3.0		
		ESG			06		-0.5					
	KRP	IPG	01	46	04.3		-0.1	0.81	344		4.3	4.2
		SG			15.1		-0.4					
	TUA	EPG	01	46	09.0		-0.2	1.05	96		3.9	4.1
		I			10.2							
		SG			23.3		-0.2					
	TNZ	EPG	01	46	13.2		0.6	1.22	246		3.8	3.7
		I			15.0							
		SG			31.0		2.0*					
	GNZ	E	01	46	27.0			1.73	89		3.8	3.7
		ESG			46		-0.3					

64/ 454

	H	M	S						
DEC 14	04	33	43.0	38.73S	175.84E	12 KM	SE	0.5	AVG MAG 3.8
	+-		0.2	0.01	0.01	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	04	33	48.2		0.0	0.23	63			
		SG			51.9		0.3					
	CNZ	PG	04	33	54.0		0.2	0.52	206		3.8	3.8
		E			34 03.5							
	KRP	PG	04	33	59.7		-0.5	0.84	343		4.4	4.1
		ESG			34 12		0.3					
	TUA	PG	04	34	03.2		-0.7	1.03	95		4.0	3.7
		E			05.0							
		SG			18.0		0.2					
	TNZ	PG	04	34	08.0		0.1	1.23	248		3.8	3.9
		E			10.0							
		E			26.8							
	GNZ	E	04	34	21.0			1.71	88		3.9	3.6
		E			46							

64/ 454

	H	M	S						
DEC 14	08	05	24.3	38.69S	175.83E	12 KM	SE	0.8	AVG MAG 3.8
	+-		0.3	0.03	0.02	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	08	05	29.5		0.2	0.22	74			
		I			33.2							
	CNZ	PG	08	05	35.6		-0.1	0.55	203		3.5	
	KRP	IPG	08	05	40.3		-0.3	0.80	343		4.3	
		E			50.9							
	TUA	EPG	08	05	44.6		-0.8	1.04	97		4.0	3.9
		SG			59.1		-0.4					
	TNZ	EPG	08	05	49.4		0.1	1.23	246		3.7	3.2
		E			50.4							
		E			06 07.2							
	GNZ	PG	08	06	00.3		1.2	1.72	89		3.9	

64/ 455

	H	M	S						
DEC 14	08	20	21.8	38.66S	175.84E	12 KM	SE	0.9	AVG MAG 3.8
	+-		0.3	0.03	0.02	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	IPG	08	20	26.4		-0.2	0.21	81			
		SG			30.2		0.5					
	CNZ	PG	08	20	33.5		-0.3	0.58	203			3.7
		I			45.2							
	KRP	PG	08	20	37.2	U	-0.4	0.77	342		4.2	4.3
		E			49.3							
	TUA	PG	08	20	41.8		-1.1	1.04	98		3.8	3.4
		E			21 00.6							
	TNZ	P	08	20	46.2		1.4	1.25	245		3.5	3.6
		SG			21 03.7		-0.4					
	GNZ	EPG	08	20	56.9		0.5	1.71	90		3.9	
		E			58.7							

64/ 456

	H	M	S						
DEC 14	14	26	27.8	38.69S	175.83E	12 KM	SE	0.5	AVG MAG 4.1
	+-		0.2	0.01	0.01	R			

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	IPG	14	26	33.1		0.3	0.23	74			
		SG			37.2		1.0					
	CNZ	IPG	14	26	39.0		-0.1	0.55	203		3.9	
		SG			47.0		0.3					
	KRP	IPG	14	26	44.0		-0.1	0.80	343		4.5	4.3
		SG			54.9		-0.1					
	TUA	EPG	14	26	48.7		-0.3	1.04	97		4.0	4.0
		I			49.9							
		SG			27 02.7		-0.4					
	TNZ	EPG	14	26	52.8		0.0	1.23	246		4.3	4.0
		I			55.3							
		SG			27 11.6		2.2*					
	GNZ	EPG	14	27	02.0		-0.6	1.72	89		4.1	
		E			06.0							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	E			29							

64/ 457

DEC 14 16 07 38.2 (H M S) +_ 0.2 — 38.69S 0.01, 175.82E 0.01, 12 KM R, SE 0.6, AVG MAG 3.6

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	16	07	43.5		0.2	0.23	75			
	SG			47.2		0.6					
CNZ	PG	16	07	49.2		-0.4	0.55	203		3.2	3.4
	SG			56.7		-0.5					
KRP	IPG	16	07	54.2		-0.3	0.80	343		4.1	3.9
	S		08	07.6		-0.3					
TUA	EPG	16	07	59.3		-0.1	1.04	97		4.0	3.6
	ESG		08	14		0.4					
TNZ	EPG	16	08	03.0		-0.2	1.23	246		3.8	3.5
	E			05.0							
	E			07.8							
	SG			21.0		1.2					
GNZ	EPG	16	08	12.4		-0.7	1.72	89		3.6	3.4
	E			18							
	E			40							

64/ 458

DEC 14 17 13 09.9 (H M S) +_ 0.2 — 38.72S 0.01, 175.84E 0.01, 12 KM R, SE 0.6, AVG MAG 3.9

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	IPG	17	13	15.1		0.3	0.22	67			
	SG			18.3		0.2					
CNZ	IPG	17	13	21.2		0.3	0.53	205			3.6
	I			26.4							
KRP	IPG	17	13	25.9	U	-0.8	0.83	343		4.2	4.1
	SG			38.5		0.5					
TUA	PG	17	13	30.2		-0.5	1.03	95		3.7	3.7
	SG			44.5		-0.1					
TNZ	EPG	17	13	34.3		-0.6	1.23	247		4.0	3.7
	E			36.3							
	ESG			52		0.4					
GNZ	EPG	17	13	45.0		0.5	1.71	88		3.8	
	E			46.2							

64/ 459

DEC 14 18 05 44.3 (H M S) +_ 0.3 — 38.65S 0.02, 175.76E 0.02, 12 KM R, SE 0.9, AVG MAG 3.8

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ							0.27	85			
CNZ	IPG	18	05	55.0	D	-1.0	0.57	196		3.8	
	E		06	06.0							
TON							0.57	197	2.9		
KRP	IPG	18	05	59.3		-0.3	0.75	347		4.1	4.2
	SG		06	09.8		0.0					
TUA	P*	18	06	04.0		-0.3	1.10	98		4.1	3.8
	PG			08.0		1.3					
	E			24.0							
TNZ	EPG	18	06	08.2		-0.4	1.20	243		3.9	3.8
	E			09.5							
	SG			25.8		1.0					
GNZ	EPG	18	06	20.0		-0.3	1.78	90		3.9	3.6
	E			49							

64/ 460

DEC 14 20 43 55.2 (H M S) +_ 0.3 — 38.65S 0.02, 175.85E 0.01, 12 KM R, SE 0.7, AVG MAG 3.3

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	SG	20	44	02.2		-0.5	0.20	86			
	I			05.0						3.0	3.2
CNZ	PG	20	44	07.0		-0.5	0.60	203			
	E			10.0							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	SG			16.1		0.3					
TON							0.61	204	2.6		
KRP	PG	20	44	11.0		0.3	0.76	341		3.9	3.5
	I			14.8							
	I			21.3							
TUA	EPG	20	44	16.2		0.1	1.03	99		3.3	3.4
	SG			30.5		0.5					
TNZ	PG	20	44	20.0		-0.9	1.27	244		3.6	3.4
	E			22.0							
	SG			38.7		0.6					

64/ 461

DEC 14 23 19 40.2 (H M S) +_ 0.3 — 38.68S 0.02, 175.87E 0.01, 12 KM R, SE 1.0, AVG MAG 3.6

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	23	19	44.4		-0.2	0.19	76			
	SG			47.8		0.3					
CNZ	PG	23	19	51.0		-1.1	0.58	206		3.3	3.3
	E			53.0							
	SG		20	01.0		1.0					
KRP	IPG	23	19	55.8		-0.6	0.80	341		3.7	4.0
	SG		20	07.8		0.5					
TUA	PG	23	19	59.9		-0.8	1.01	98		3.9	3.6
	SG		20	14.0		-0.4					
TNZ	PG	23	20	05.0		-0.9	1.27	246		3.6	3.5
	SG			23.5		0.5					
GNZ	PG	23	20	16.0		1.6	1.69	90			
	E			45							

64/ 462

DEC 14 23 22 32.4 (H M S) +_ 0.4 — 38.72S 0.03, 175.82E 0.02, 12 KM R, SE 1.1, AVG MAG 3.8

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	23	22	37.3		-0.3	0.24	68			
	E			39.4							
	I			40.8							
CNZ	PG	23	22	43.4		0.2	0.53	204		3.7	3.6
	E			47.0							
	E			54.1							
TON							0.53	205	2.9		
KRP	IPG	23	22	48.2		-1.0	0.82	344		4.0	4.2
	SG		23	01.0		0.7					
TUA	PG	23	22	52.2		-1.3	1.04	95		4.1	3.8
	E			56.0							
	SG		23	07.8		0.1					
TNZ	EPG	23	22	57.2		0.1	1.22	247		3.8	3.7
	E		23	16.3							
GNZ	EPG	23	23	08.8		1.5	1.72	88		4.1	3.7
	I			10.8							
	E			37							

64/ 463

DEC 15 00 12 42.7 (H M S) +_ 0.2 — 38.72S 0.01, 175.84E 0.01, 12 KM R, SE 0.5, AVG MAG 4.1

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	IPG	00	12	47.9		0.2	0.22	66			
	I			49.9							
	SG			51.2		0.2					
CNZ	IPG	00	12	54.1	D	0.5	0.53	206			
TON							0.54	206	3.2		
KRP	IPG	00	12	59.2	U	-0.4	0.83	343		4.7	4.5
	SG		13	11.2		0.4					
TUA	PG	00	13	03.1		-0.4	1.03	95		4.1	4.1
	I			04.9							
	SG			17.9		0.5					
TNZ	PG	00	13	07.4		-0.2	1.23	247		4.3	4.2
	I			10.0							

		I		26.2							
	GNZ	EPG	00 13	16.5		-0.8	1.71	88		4.0	4.1
		E		20.5							
		E		50							
	H M S										64/ 466
DEC 15	00 15 45.0	38.72S	175.87E	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
	WNZ EPG	00 15	50.2		0.5	0.20	65				
	E		51.4								
	SG		52.8		0.1						
	E		54.0								
	CNZ PG	00 15	56.3		0.0	0.54	207			3.4	3.3
	I		59.3								
	SG	16	03.3		-0.4						
	TON					0.55	208	2.7			
	KRP IPG	00 16	01.2	U	-0.8	0.83	342			4.1	3.9
	SG		13.5		0.2						
	TUA PG	00 16	05.3		-0.2	1.01	96			3.5	3.7
	SG		19.2		0.1						
	TNZ EPG	00 16	10.1		-0.3	1.25	248			3.7	3.4
	E		12.2								
	SG		28.2		0.8						
	H M S										64/ 467
DEC 15	05 07 28.6	38.51S	175.81E	12 KM	SE 0.8				AVG MAG		3.5
	+- 0.3	0.02	0.01	R							
		H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ EPG	05 07	34.2		-0.1	0.26	119				
	SG		39.0		0.9						
	KRP PG	05 07	42.1		0.8	0.62	340			3.3	3.5
	SG		49.2		-0.6						
	CNZ PG	05 07	42.2		-1.2	0.72	196			3.2	3.4
	E		47.2								
	TON					0.73	197	3.0			
	TUA EPG	05 07	50.7		-0.1	1.09	106			3.5	3.7
	SG	08	05.3		-0.3						
	TNZ PG	05 07	55.0		-0.1	1.31	238			3.6	3.7
	SG	08	13.5		0.7						
	GNZ E	05 08	08			1.74	95			3.6	
	H M S										64/ 468
DEC 15	07 00 47.1	38.66S	175.85E	12 KM	SE 0.6				AVG MAG		3.4
	+- 0.2	0.01	0.01	R							
		H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ SG	07 00	54.0		-0.7	0.20	83				
	E		56.2								
	I		57.2								
	CNZ PG	07 00	59.0		-0.3	0.59	204			3.3	
	E	01	01.0								
	TON					0.60	204	2.7			
	KRP PG	07 01	03.2		0.3	0.77	341			3.8	3.5
	SG		13.3		-0.1						
	TUA EPG	07 01	07.8		-0.2	1.03	99			3.3	3.4
	SG		22.8		0.9						
	TNZ EPG	07 01	12.5		-0.3	1.26	245			3.5	3.5
	E		14.5								
	SG		30.2		0.3						
	H M S										64/ 469
DEC 15	07 24 55.9	38.64S	175.86E	12 KM	SE 1.1				AVG MAG		3.5
	+- 0.4	0.02	0.02	R							
		H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ SG	07 25	01.8		-1.5	0.19	87				
	E		05.0								
	I		06.0								

		I		14.8							
	TON	EPG	07 25	08.0		-0.5	0.61	204	2.7		
		SG		16.3		-0.5					
	KRP	IPG	07 25	12.2	U	0.8	0.76	341		3.9	3.9
		SG		21.0		-0.7					
	TUA	EPG	07 25	16.2		-0.5	1.03	100		3.5	3.7
		I		19.3							
		S		32.2		1.6					
	TNZ	EPG	07 25	21.2		-0.5	1.27	244		3.5	3.6
		E		23.0							
		SG		40.0		1.1					
		E		48.0							
	GNZ	E	07 25	35.0			1.70	91		3.6	3.5
		SG		54.0		0.8					
	H M S										64/ 468
DEC 15	10 59 31.3	38.70S	175.82E	12 KM	SE 0.8				AVG MAG		3.5
	+- 0.2	0.01	0.01	R							
		H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ EPG	10 59	36.7		0.3	0.23	72				
	I		38.3								
	SG		41.0		1.1						
	CNZ PG	10 59	41.9		-0.5	0.54	203			3.5	3.3
	I		44.3								
	ESG		50		0.2						
	TON					0.55	204	2.7			
	KRP PG	10 59	46.8		-0.9	0.81	344			3.7	3.8
	I		57.0								
	ESG		59		0.3						
	TUA EPG	10 59	52.5		-0.0	1.05	96			3.7	3.4
	SG	11 00	06.0		-0.7						
	TNZ EPG	10 59	55.5		-0.6	1.22	246			3.7	3.5
	E		58.0								
	SG	11 00	13.5		0.9						
	GNZ E	11 00	10			1.72	89			3.4	
	H M S										64/ 469
DEC 15	11 33 12.9	38.68S	175.79E	12 KM	SE 0.7				AVG MAG		3.4
	+- 0.2	0.01	0.01	R							
		H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ PG	11 33	18.7		0.3	0.25	78				
	I		20.8								
	SG		23.0		1.0						
	CNZ PG	11 33	23.8		-0.4	0.55	200			3.3	3.3
	I		27.2								
	SG		32.0		0.3						
	TON					0.56	201	2.7			
	KRP PG	11 33	29.0		0.2	0.78	345			3.6	3.6
	SG		39.0		-0.5						
	TUA EPG	11 33	35.0		0.4	1.07	97			3.5	3.7
	ESG		48		-1.1						
	TNZ EPG	11 33	37.5		0.1	1.21	245			3.8	3.4
	I		40.0								
	E		55								
	GNZ EPG	11 33	48		-0.3	1.75	89			3.4	
	H M S										64/ 470
DEC 15	12 02 09.6	38.69S	175.82E	12 KM	SE 0.3				AVG MAG		4.0
	+- 0.1	0.01	0.01	R							
		H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ PG	12 02	15.0		0.3	0.23	76				
	CNZ IPG	12 02	21.4	D	0.3	0.56	203			3.5	3.8
	I		25.4								
	TON EPG	12 02	21.1		-0.1	0.56	203	3.3			
	SG		29.1		0.1						
	E		34.5								
	KRP IPG	12 02	25.9		0.1	0.79	343			4.5	4.5

		I		39.1						
	TUA	PG	12 02	30.5	-0.4	1.05	97		4.1	
	TNZ	PG	12 02	34.3	-0.3	1.23	246		4.4	4.3
		I		36.8						
		I		53.0						
	GNZ	EPG	12 02	44.5	-0.0	1.72	89		4.0	

64/ 472

	H	M	S								
DEC 15	12	21	40.2	38.76S	175.41E	287 KM	SE	1.7	AVG MAG		4.1
	+-		1.3	0.10	0.10	9					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	P	12	22	18.4		1.1	0.45	166			
		S			46.2		-0.1					
	TON	ES	12	22	46		-0.3	0.45	167	3.6		
	KRP	P	12	22	17.9		-0.7	0.84	7			
	TNZ	EP	12	22	18		-0.9	0.91	242		3.7	3.4
		E			50							
	TUA	P	12	22	22.8		1.2	1.36	92		4.1	4.1
		S			55.7		2.2					
	GNZ	P	12	22	27.2		0.8	2.05	87		4.0	4.1
		S			58.5		-4.0					
	WEL	P	12	22	32.4		1.2	2.57	191	4.5		
		S		23	13.0		2.1					
	ECZ	P?	12	22	32.0		-0.4	2.69	68		3.9	
	COB	EP	12	22	36		-0.5	3.10	221	4.2		
		E(S)		23	10		-10.3*					
	KAI	ES	12	23	53		-2.0	4.84	218	4.3		
	GPZ	EP	12	23	02		0.1	5.35	202	4.7		
		S		24	06		0.1					

64/ 473

	H	M	S								
DEC 15	14	00	31.0	38.68S	175.86E	12 KM	SE	0.8	AVG MAG		4.2
	+-		0.3	0.03	0.02	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	14	00	36.4		0.8	0.20	76			
		I			38.0							
		I			41.2							
	CNZ	PG	14	00	42.0		-0.8	0.57	205			
		E			49.5							
	TON	E	14	00	43.7			0.58	205	3.3		
		E			45.7							
		E			53							
	KRP	PG	14	00	46.8		-0.4	0.79	341		4.5	4.5
		I			59.1							
	TUA	PG	14	00	52.0		0.2	1.02	98		4.3	4.2
		E			53.2							
	TNZ	PG	14	00	56.3		-0.3	1.26	246		4.3	4.2
		E			58.2							
		SG		01	14.4		0.8					
	GNZ	PG	14	01	05.0		-0.4	1.70	89		4.4	
		E			07.8							

64/ 474

	H	M	S								
DEC 15	15	28	02.1	38.68S	175.80E	12 KM	SE	0.6	AVG MAG		3.7
	+-		0.2	0.01	0.01	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	15	28	07.8		0.3	0.25	78			
		I			09.9							
		I			12.0							
	CNZ	PG	15	28	13.1		-0.3	0.55	200		3.6	3.4
		E			16.1							
		SG			21.3		0.3					
	TON							0.56	201	2.7		
	KRP	IPG	15	28	18.2		0.2	0.78	345		4.0	4.1
		I			21.5							
		SG			28.5		-0.2					
		I			32.2							

	TUA	EPG	15 28	23.0	-0.7	1.07	97		4.0	3.8
		I		25.0						
		SG		37.7	-0.5					
	TNZ	EPG	15 28	26.5	-0.2	1.21	245		4.0	
		I		29.0						
	GNZ	EPG	15 28	38.5	1.1	1.74	89		3.8	3.6
		E		40						
		ESG	29	03	2.1*					

64/ 474

	H	M	S								
DEC 15	16	53	51.8	38.71S	175.81E	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
	WNZ	PG	16	53	57.0		-0.1	0.24	72			
		E			59.0							
		SG		54	00.8		0.2					
	CNZ	PG	16	54	02.9		0.1	0.53	203		2.8	3.4
		I			36.0							
		E			41.3							
	TON							0.54	203	2.6		
	KRP	PG	16	54	08.0		-0.3	0.81	344		3.8	3.9
		I			12.0							
		E(S)			22		0.2					
	TUA	EPG	16	54	12.2		-0.9	1.05	96		3.8	3.7
		E			15.0							
		SG			27.3		-0.1					
	TNZ	EPG	16	54	16.2		-0.2	1.21	246		3.8	3.4
		E			19.0							
		SG			33.0		0.1					
	GNZ	EPG	16	54	27.8		1.0	1.73	89		3.6	3.4
		E			29.5							
		E			52							

64/ 475

	H	M	S								
DEC 15	18	58	13.8	38.68S	175.81E	12 KM	SE	0.5	AVG MAG		4.2
	+-		0.2	0.01	0.01	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	18	58	19.5		0.5	0.23	78			
		SG			22.1		-0.3					
		E			23.9							
	CNZ	PG	18	58	25.0	U	-0.3	0.56	202		4.2	
	TON							0.56	202	3.3		
	KRP	IPG	18	58	30.0	U	0.2	0.79	344		4.2	4.5
		S			42.8		-0.5					
	TUA	PG	18	58	35.0		-0.2	1.05	97		4.4	4.3
		SG			49.1		-0.4					
	TNZ	PG	18	58	38.8		0.1	1.23	245		4.5	4.1
		I			41.8							
		E			57.8							
	GNZ	EPG	18	58	49.5		0.7	1.73	89		4.2	
		I			51.2							

64/ 476

	H	M	S								
DEC 15	19	37	01.6	38.73S	175.85E	12 KM	SE	1.1	AVG MAG		3.5
	+-		0.4	0.02	0.02	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	E(PG)	19	37	07.0		0.5	0.22	64			
		SG			09.0		-0.8					
		I			11.0							
	CNZ	PG	19	37	12.2		-0.3	0.53	207		3.5	3.3
		SG			19.2		-0.6					
	TON							0.54	207	2.5		
	KRP	PG	19	37	17.4		-1.3	0.84	343		3.7	3.8
		SG			30.6		0.5					
	TUA	EPG	19	37	21.8		-0.5	1.02	95		3.8	3.7
		E			23.9							
		SG			37.0		0.9					

	TNZ	EP		19 37 26.0		1.6	1.24	248		3.8	3.2
		E			28.8						
		E			44.0						
	GNZ	E		19 37 39			1.70	88		3.7	3.5
		E			38 02						

64/ 477

	H M S										
DEC 15	19 40 19.2		38.66S	175.85E	12 KM		SE 0.9		AVG MAG		3.3
	+- 0.4		0.02	0.02	R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	SG	19 40 26.0			-0.9	0.20	81			
		I		28.2							
	CNZ	EPG	19 40 30.8			-0.4	0.59	204		3.4	3.1
		I		32.8							
		SG		39.8		0.5					
	TON						0.59	204	2.6		
	KRP	IPG	19 40 35.7		U	0.6	0.78	341		3.8	3.7
		E		46.5							
	TUA	EPG	19 40 39.8			-0.3	1.03	98		3.3	3.4
		ESG		55		1.0					
	TNZ	EPG	19 40 44.3			-0.5	1.26	245		3.5	
		E		46.8							
	GNZ	E	19 40 57				1.70	90		3.4	3.2
		E		41 26							

64/ 478

	H M S										
DEC 15	19 44 34.2		38.67S	175.84E	12 KM		SE 1.2		AVG MAG		3.7
	+- 0.4		0.04	0.02	R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	EPG	19 44 38.0			-0.9	0.21	79			
		SG		41.8		-0.3					
		I		43.8							
	CNZ	EPG	19 44 44.5			-1.5	0.58	203		3.3	3.7
		E		48.5							
	TON						0.58	204	3.0		
	KRP	PG	19 44 50.0			-0.2	0.78	342		4.2	4.1
		E		45 00.6							
	TUA	EPG	19 44 55.2			-0.0	1.03	98		3.8	3.8
		ESG		45 10		0.8					
	TNZ	EPG	19 44 59.0			-0.6	1.25	245		4.0	3.8
		E		45 01.0							
		SG		18.0		1.5					
	GNZ	EPG	19 45 10			1.2	1.71	90		3.8	3.8
		E		37							

64/ 479

	H M S										
DEC 15	20 00 28.5		38.68S	175.85E	12 KM		SE 1.0		AVG MAG		4.4
	+- 0.4		0.04	0.02	R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	IPG	20 00 34.1		U	1.0	0.20	78			
		E		38.2							
	CNZ	IPG	20 00 39.4		D	-0.9	0.58	204			
	TON						0.58	205	3.7		
	KRP	IPG	20 00 44.0			-0.6	0.79	342		4.5	4.3
	TUA	PG	20 00 49.0			-0.3	1.02	98		4.5	
		SG		01 03.0		-0.2					
	TNZ	PG	20 00 53.2		U	-0.8	1.26	246		4.7	4.4
		SG		01 12.3		1.3					
	GNZ	E(PG)	20 01 03.6			0.6	1.70	90		4.5	4.3
		E		45							

64/ 480

	H M S										
DEC 16	00 59 19.8		38.68S	175.81E	12 KM		SE 0.8		AVG MAG		3.6
	+- 0.3		0.02	0.02	R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	(PG)	00 59 25.0		U	0.1	0.23	77			
		SG		29.0		0.6					

	CNZ	PG	00 59 30.8			-0.4	0.55	202		3.1	3.4
		SG		39.5		0.7					
	TON						0.56	202			
	KRP	PG	00 59 35.9			0.0	0.79	344		3.9	3.9
		E		45.5							
	TUA	EPG	00 59 40.0			-1.2	1.05	97		3.5	3.4
		SG		54.8		-0.6					
	TNZ	PG	00 59 44.2			-0.4	1.22	245		3.8	3.7
		E		46.5							
		E		57.1							
	GNZ	PG	00 59 56.0			1.2	1.73	89		3.6	

64/ 481

	H M S										
DEC 16	01 13 01.1		38.70S	175.84E	12 KM		SE 0.8		AVG MAG		3.6
	+- 0.3		0.02	0.01	R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	01 13 05.7			-0.3	0.22	72			
		SG		09.3		0.1					
	CNZ	IPG	01 13 12.8		D	0.4	0.55	204		3.5	3.3
		E		15.8							
		E		23							
	TON						0.56	205	2.7		
	KRP	IPG	01 13 16.9			-0.6	0.81	343		3.9	4.1
		I		27.0							
		SG		29.0		0.5					
	TUA	PG	01 13 21.0			-1.1	1.03	97		3.8	3.4
		I		25.2							
		E		36.0							
	TNZ	PG	01 13 26.0			-0.2	1.24	246		3.7	3.8
		SG		43.0		0.0					
	GNZ	PG	01 13 37.0			1.3	1.71	89		3.6	

64/ 482

	H M S										
DEC 16	02 12 20.4		33.76S	178.82W	358 KM		SE 2.2		AVG MAG		4.8
	+- 3.7		0.34	0.66	.40						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	EP	02 13 45			-1.4	5.50	207		4.5	4.3
		ES		14 56		2.0					
	TUA	P	02 13 51			-1.0	6.00	212		4.7	4.5
		ES		15 03		-1.0					
	KRP	EP	02 13 54			-0.2	6.18	226			
	CNZ	EP	02 14 07			2.5	7.07	218			
	WEL	S	02 16 07			-2.0	9.07	212	5.5		
	GPZ	ES	02 17 12			1.1	11.94	211	5.5		

64/ 483

	H M S										
DEC 16	15 20 56.6		38.70S	175.84E	12 KM		SE 0.5		AVG MAG		3.9
	+- 0.2		0.01	0.01	R						
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	IPG	15 21 02.0		U	0.4	0.22	71			
		E		04.2							
		SG		05.3		0.4					
	CNZ	IPG	15 21 07.8			-0.1	0.54	204		3.9	
		E		10.0							
	TON						0.55	205	2.9		
	KRP	IPG	15 21 13.3			0.1	0.81	343		4.3	4.2
		SG		24.0		-0.2					
	TUA	PG	15 21 17.1			-0.5	1.03	96		4.1	3.7
		I		18.8							
		SG		31.8		-0.2					
	TNZ	PG	15 21 21			-0.7	1.23	247		4.2	3.9
		SG		39		0.7					
	GNZ	EPG	15 21 31.0			-0.3	1.71	89		4.1	3.7
		E		32.0							
		E		22 02							

	H M S													64/ 484
DEC 16	16 49 19.9	38.68S	175.83E	12 KM	SE 0.8				AVG MAG 3.5					
	+- 0.2	0.01	0.01	R										
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S				
	WNZ PG	16 49 25.4			0.6	0.22	78							
	SG		29.0		0.8									
	CNZ PG	16 49 30.3			-1.2	0.57	202		3.5	3.4				
	I		36.0											
	SG		40.0		0.7									
	TON					0.57	203	2.6						
	KRP PG	16 49 36.0			0.1	0.78	343		3.9	3.8				
	SG		46.3		-0.3									
	TUA PG	16 49 40.2			-0.9	1.04	98		3.5	3.4				
	I		42.0											
	SG		55.0		-0.2									
	TNZ PG	16 49 45			0.0	1.24	245		3.8	3.5				
	SG	50 02			0.3									
	GNZ E	16 50 59				1.72	90		3.9					
	H M S													64/ 485
DEC 16	17 30 32.9	38.71S	175.79E	12 KM	SE 0.5				AVG MAG 3.8					
	+- 0.2	0.01	0.01	R										
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S				
	WNZ IPG	17 30 38.8		U	0.3	0.26	73							
	SG		42.8		0.5									
	CNZ PG	17 30 44.0			0.2	0.53	201		3.8					
	E		47.2											
	TON					0.53	201	2.8						
	KRP PG	17 30 49.1			-0.2	0.80	346		4.0	4.1				
	SG		31 00.2		-0.0									
	TUA PG	17 30 54.9			0.3	1.07	96		4.1	3.8				
	E		55.3											
	SG		31 08.3		-0.9									
	TNZ PG	17 30 57			-0.2	1.20	246		4.1	3.7				
	SG		31 15		1.6*									
	GNZ EPG	17 31 08.4			0.0	1.75	89		3.9					
	H M S													64/ 486
DEC 16	21 39 57.9	38.68S	175.88E	12 KM	SE 1.5				AVG MAG 3.4					
	+- 0.6	0.05	0.03	R										
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S				
	WNZ PG	21 40 02.2			0.0	0.18	73							
	I		06.4											
	CNZ PG	21 40 08.0			-1.8	0.58	207		3.1	3.3				
	E		18.0											
	TON					0.58	207	2.7						
	KRP IPG	21 40 13.7			-0.6	0.80	340		3.9	3.8				
	E		30.2											
	TUA EPG	21 40 17.3			-1.0	1.00	98		3.6	3.2				
	SG		33.0		1.2									
	TNZ EP	21 40 22			0.7	1.27	246		3.7	3.8				
	S		40		1.5									
	GNZ E	21 40 35.0				1.68	89		3.7					
	H M S													64/ 487
DEC 16	22 13 07.0	38.70S	175.84E	12 KM	SE 0.3				AVG MAG 3.8					
	+- 0.1	0.01	0.00	R										
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S				
	WNZ PG	22 13 12.0			0.1	0.22	71							
	I		16.2											
	CNZ IPG	22 13 18.1			-0.1	0.55	204		3.5	3.8				
	I		28.5											
	TON					0.55	205	2.9						
	KRP IPG	22 13 23.2			-0.4	0.81	343		4.1	4.1				
	SG		34.8		0.2									
	TUA PG	22 13 27.7			-0.3	1.03	96		4.0	3.8				

	SG		42.0		0.1									
	TNZ PG	22 13 32			-0.0	1.23	247		4.0	4.0				
	SG		49		0.2									
	GNZ E(PG)	22 13 44.0			2.3*	1.71	89		4.0	3.5				
	SG	14 05.0			0.2									
	H M S													64/ 488
DEC 17	04 20 52.3	38.73S	175.84E	12 KM	SE 0.3				AVG MAG 4.0					
	+- 0.1	0.01	0.01	R										
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S				
	WNZ IPG	04 20 57.2			-0.1	0.23	64							
	SG	21 01.0			0.3									
	CNZ PG	04 21 03.0			-0.0	0.52	206		3.4	3.7				
	SG		13.0		2.8*									
	TON					0.53	207	3.1						
	KRP IPG	04 21 09.0			-0.4	0.84	343		4.5	4.3				
	SG		21.0		0.2									
	TUA PG	04 21 12.9			-0.2	1.03	95		4.4	3.9				
	SG		27.2		0.2									
	TNZ PG	04 21 16.8			-0.4	1.23	248		4.2	4.2				
	SG		34.2		0.4									
	H M S													64/ 489
DEC 17	17 11 10.0	35.21S	178.93W	255 KM	SE 2.4				AVG MAG 4.6					
	+- 3.9	0.18	0.35	23										
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S				
	ECZ EP	17 12 05			-0.5	3.20	219		4.2	4.3				
	E		42											
	ES		50		1.4									
	TUA P	17 12 23			-0.7	4.76	220		4.4	4.5				
	S		13 21		-0.1									
	KRP EP	17 12 27			-2.1	5.21	237		4.4					
	ONE EP	17 12 35			2.3	5.50	262							
	CNZ E	17 12 38				5.94	226		3.5	3.8				
	E		50											
	TNZ E	17 12 54				6.65	231							
	WEL ES	17 14 28			-1.6	7.83	217	5.3						
	EL	16 00												
	COB S	17 14 49			-2.6	8.80	226	5.1						
	KAI ES	17 15 30			0.1	10.48	223	5.2						
	GPZ E	17 13 56				10.68	215	5.4						
	S		15 38		3.7									
	H M S													64/ 490
DEC 17	20 49 27.2	40.12S	175.22E	33 KM	SE 1.0				AVG MAG 3.8					
	+- 0.3	0.02	0.03	R										
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S				
	TON P*	20 49 45.2			-0.1	0.94	15	3.5						
	S*		57.5		-0.7									
	CNZ P*	20 49 45.0			-0.3	0.95	16		3.8	4.1				
	ES*		59		0.6									
	TNZ P*	20 49 47.5			-0.6	1.13	325		3.4	3.8				
	S*		50 04		0.4									
	WEL P*	20 49 50.0			0.4	1.22	196	3.7						
	S*		50 06		-0.1									
	TUA EP*	20 50 04			1.4	1.99	49		3.9	3.8				
	E		38											
	COB EP*	20 50 04			-1.0	2.13	242	3.5						
	SN		26		1.8									
	KRP P*	20 50 06.0			-0.3	2.20	7		3.9	3.9				
	S*		35.0		-0.4									
	KAI ESN	20 51 08			4.3*	3.74	229	3.8						
	GPZ ESN	20 51 10			-1.3	4.06	207	3.9						
	H M S													64/ 491
DEC 18	01 50 05.3	35.12S	179.12W	258 KM	SE 0.9				AVG MAG 4.6					
	+- 1.2	0.11	0.16	9										

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		01	51 01		0.3	3.19	216		4.1	4.2
		ES			45		1.2					
	GNZ	P		01	51 12		-0.3	4.20	212		4.4	4.4
		S			52 03		-1.4					
	TUA	P		01	51 19		0.3	4.74	218		4.4	4.6
		S			52 16		-0.0					
	KRP	P		01	51 23		-0.5	5.13	235		4.1	
	WEL	ES		01	53 24		-0.5	7.81	216	5.2		
	COB	ES		01	53 46		0.1	8.76	225	5.1		
	GPZ	ES		01	54 30		0.8	10.67	214	5.4		

64/ 492

	H	M	S								
DEC 18	16	56	09.9	38.72S	175.82E	12 KM	SE	0.5	AVG MAG		3.2
	+-		0.2	0.01	0.01	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	E		16	56 17.3			0.24	68			
		SG			19.0		0.4					
	CNZ	PG		16	56 21.0		0.3	0.53	204		2.8	2.8
		SG			28.0		0.1					
	TON							0.53	205	2.3		
	KRP	PG		16	56 26.2		-0.5	0.82	344		3.9	3.5
		SG			38.3		0.4					
	TUA	EPG		16	56 31.0		-0.1	1.04	95		3.3	3.4
		SG			45.5		0.3					
	TNZ	EPG		16	56 34.5		-0.1	1.22	247		3.5	3.2
		SG			53.0		2.0*					
	GNZ	EPG		16	56 44		-0.8	1.72	88		3.4	

64/ 493

	H	M	S								
DEC 18	23	13	38.1	38.67S	175.85E	12 KM	SE	0.8	AVG MAG		3.7
	+-		0.3	0.02	0.01	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	E		23	13 42.8			0.20	78			
		SG			45.0		-0.8					
		I			47.8							
	CNZ	PG		23	13 50.0		0.1	0.58	204		3.7	
		E			53.0							
	TON							0.58	205	2.8		
	KRP	PG		23	13 54.0		-0.1	0.79	342		4.0	3.8
		S			14 07.8		0.3					
	TUA	EPG		23	13 58.3		-0.6	1.03	98		3.8	3.7
		E			14 00.0							
		S			14.0		1.2					
	TNZ	PG		23	14 04.1		0.6	1.26	245		3.8	3.8
		SG			19.9		-0.6					
	GNZ	EPG		23	14 15.5		3.0*	1.70	90		3.8	3.4
		E			18.8							
		E			41.0							

64/ 494

	H	M	S								
DEC 18	23	19	54.6	38.67S	175.85E	12 KM	SE	0.4	AVG MAG		4.1
	+-		0.1	0.01	0.01	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG		23	19 59.5		0.2	0.20	78			
		I			20 01.3							
		SG			02.8		0.4				3.7	
	CNZ	PG		23	20 06.2		-0.3	0.58	204			
		I			09.8							
		SG			14.8		0.4					
	TON							0.58	204	3.4		
	KRP	IPG		23	20 11.0	U	0.4	0.79	342		4.7	
		S			23.8		-0.3					
	TUA	PG		23	20 15.0		-0.5	1.03	98		4.6	
	TNZ	EPG		23	20 19.9		-0.2	1.25	245		4.1	3.4
		I			22.0							
		E			39.8							

	GNZ	EPG	23	20	28.8	-0.3	1.70	90		4.8	
	WEL						2.74	197	3.8		
	ONE						3.13	337	4.0		
	COB						3.40	224	4.0		
	KAI						5.12	220	4.2		

64/ 495

	H	M	S								
DEC 18	23	22	53.9	38.68S	175.87E	12 KM	SE	0.8	AVG MAG		3.7
	+-		0.3	0.03	0.01	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	SG		23	23 00.8		-0.3	0.19	76			
		I			02.0							
	CNZ	EPG		23	23 05.0		-0.8	0.58	206		3.3	3.4
		E			10.0							
		E			15							
	TON							0.59	206	2.8		
	KRP	PG		23	23 10.1		-0.0	0.80	341		4.0	4.2
		I			21.8							
		I			24.0							
	TUA	EPG		23	23 13.8		-0.6	1.01	98		3.8	3.9
		E			14.9							
		SG			29.0		1.0					
	TNZ	PG		23	23 19.8		0.2	1.27	246		3.7	3.7
		SG			37.3		0.5					
	GNZ	E		23	23 33			1.68	90		4.0	3.6
		E			56							

64/ 496

	H	M	S								
DEC 19	06	18	07.1	34.98S	179.86E	349 KM	SE	1.3	AVG MAG		4.6
	+-		1.3	0.12	0.18	13					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		06	19 06.8		0.9	2.90	201		4.5	4.9
		E			47							
		S			52		-0.0					
	GNZ	P		06	19 16.0		0.2	3.94	201		4.7	5.1
		ES			20 08		-1.8					
	TUA	EP		06	19 21		0.4	4.39	209		4.3	4.7
		ES			20 19		0.8					
	KRP	EP		06	19 21		-1.3	4.55	229		3.9	
	CNZ	EP		06	19 32		-0.1	5.44	218		3.5	3.8
		ES			20 41		2.2					
	TNZ	EP		06	19 40		0.8	6.06	225			
	WEL	P		06	19 55.0		-0.6	7.46	211	5.5		
		S			21 20		-1.0					
	COB	ES		06	21 37		-1.6	8.29	221	5.1		
	GPZ	ES		06	22 24		1.1	10.33	210	5.4		

64/ 497

	H	M	S								
DEC 19	06	41	22.6	33.06S	178.75W	205 KM	SE	3.8	AVG MAG		6.2
	+-		2.1	0.17	0.40	31					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	RAO	P		06	42 22		-1.4	3.86	11			
		S			43 05		-5.5					
	ECZ	P		06	42 42.1		2.7	5.13	205		5.4	5.5
		S			43 37		-2.0					
	GNZ	P		06	42 52.0		-0.7	6.16	204			
		S			44 00.5		-2.4					
	ONE	P		06	42 58.8		4.2	6.30	243			
	TUA	P		06	43 01.2		2.4	6.63	209			
		ES			44 15		1.1					
	KRP	P		06	43 03.7		3.6	6.73	222			
	CNZ	P		06	43 15.0		2.6	7.67	215			
		I			26.0							
		E			45							
	TON	EP		06	43 15		2.6	7.68	215	5.8		
		ES			44 41		2.7					
	TNZ	EP		06	43 25		4.9	8.26	220			

		E		39					
		E		44 59					
	WEL	P	06 43 39.0		0.3	9.70	210	7.0	
		ES		45 21	-4.3				
	COB	ES	06 45 40		-4.0	10.51	218	6.3	
	KAI	ES	06 46 18		-5.9	12.23	217	6.4	
	GPZ	EP	06 44 16		0.6	12.57	210	7.1	
		S		46 26	-5.7				
	MNW	EP	06 45 08		4.4	16.47	216		
		ES		47 59	-0.3				

64/ 498

	H M S							
DEC 20	04 28 21.8	45.15S	167.00E	33 KM	SE 1.9		AVG MAG	4.2
	+- 2.4	0.05	0.12	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP*	04 28 36.1	D	-0.6	0.77	146		4.2	4.2
	S*	49.8		2.3					
ROX	P*	04 28 49.5		-2.1	1.66	102		4.0	4.1
	S*	29 12		-1.8					
KAI	ES*	04 30 29		1.4	4.12	52	4.1		
GPZ	EPN	04 29 24		0.1	4.29	72	4.2		
	ESN	30 13		1.5					
COB	ESN	04 30 48		-0.7	5.83	48	4.5		

64/ 499

	H M S							
DEC 20	17 49 28.4	38.70S	175.83E	12 KM	SE 0.8		AVG MAG	4.1
	+- 0.3	0.02	0.02	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	17 49 33.6		0.1	0.23	73			
	E	35.4							
	SG	37.5		0.6					
CNZ	PG	17 49 40.0		0.3	0.55	203		3.9	3.8
	ESG	47		-0.2					
KRP	IPG	17 49 44.8		-0.0	0.81	344		4.4	4.5
	E	58.5							
TUA	EPG	17 49 49.0		-0.6	1.04	96		4.2	4.1
	I	50.3							
	S	50 04.5		1.0					
TNZ	EPG	17 49 53.4		0.1	1.23	246		4.3	4.1
	I	55.6							
	E	50 13							
GNZ	EPG	17 50 01.8		-1.5	1.72	89		4.1	3.9
	E	04.0							
	I	31.0							
WEL	P*	17 50 16.0		0.1	2.71	197	3.9		
	E	21.0							
COB					3.37	224	4.0		

64/ 500

	H M S							
DEC 20	21 09 20.9	38.70S	175.84E	12 KM	SE 0.4		AVG MAG	3.7
	+- 0.1	0.01	0.01	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	E	21 09 26.5			0.22	73			
	E	27.0							
	E	29.7							
CNZ	PG	21 09 32.8		0.5	0.55	204		3.2	3.5
	E	46							
TON					0.56	205	2.7		
KRP	PG	21 09 37.3		0.0	0.80	343		4.2	4.1
	SG	48.4		0.2					
	E	50.3							
TUA	PG	21 09 41.8		-0.0	1.03	97		3.9	3.7
	I	44.7							
	SG	56.0		0.2					
TNZ	EPG	21 09 46.1		0.1	1.24	246		3.9	3.5
	SG	10 02.3		-0.4					
	E	05.4							

	GNZ	EPG	21 09 55.0		-0.5	1.71	89		3.8	
		E		59.0						

64/ 501

	H M S							
DEC 20	21 18 02.2	38.69S	175.83E	12 KM	SE 0.2		AVG MAG	4.1
	+- 0.1	0.00	0.00	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	(PG)	21 18 08.3		1.2*	0.22	74			
	SG	10.3		-0.1					
	E	12.0							
CNZ	PG	21 18 13.8		0.2	0.55	203		4.1	
	E	27.6							
TON					0.56	204	3.0		
KRP	IPG	21 18 18.3		-0.2	0.80	343		4.2	4.4
	SG	29.5		0.2					
TUA	PG	21 18 23.5		0.2	1.04	97		4.4	4.3
	SG	37.2		-0.1					
TNZ	PG	21 18 27.1		-0.1	1.23	246		4.4	3.8
	I	29.5							
	SG	43.8		-0.1					
GNZ	EPG	21 18 37.0		0.1	1.72	89		4.3	
	E	42.0							

64/ 502

	H M S							
DEC 20	22 09 59.5	38.66S	175.84E	12 KM	SE 1.1		AVG MAG	3.9
	+- 0.4	0.04	0.02	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	SG	22 10 07.4		0.1	0.20	82			
	E	11.7							
	E	14.5							
CNZ	PG	22 10 11.0		-0.5	0.59	203		3.7	
	E	25.5							
TON					0.59	204	3.2		
KRP	PG	22 10 15.0		-0.3	0.77	342		4.0	4.5
	E	31.8							
	E	35.0							
TUA	EPG	22 10 20.3		-0.2	1.03	99		3.8	4.1
	E	22.0							
	E	40.0							
TNZ	EPG	22 10 24.3		-0.7	1.26	245		4.0	3.5
	E	26.2							
	SG	42.8		0.8					
GNZ	PG	22 10 36.0		1.9	1.71	90		4.2	4.1
	E	40.8							
	S*	51.3		-1.1					

64/ 503

	H M S							
DEC 20	22 55 26.4	38.66S	175.84E	12 KM	SE 0.8		AVG MAG	3.6
	+- 0.3	0.02	0.02	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	E	22 55 32.0			0.21	81			
	SG	35.0		0.8					
CNZ	EPG	22 55 38.8		0.4	0.58	203		3.5	3.2
	I	40.8							
KRP	PG	22 55 42.2		-0.0	0.78	342		4.0	4.0
	SG	53.0		0.2					
TUA	EPG	22 55 47.0		-0.4	1.03	98		3.5	3.6
	SG	56 02.0		0.6					
TNZ	EPG	22 55 51.8		-0.0	1.25	245		3.6	3.5
	E	54.0							
	E	56 12.0							
GNZ	EPG	22 55 59.5		-1.5	1.71	90		3.6	3.4
	E	56 04							
	E	27							

														64/ 506
	H	M	S											
DEC 20	23	49	11.1	38.71S	175.84E	12 KM	SE	0.8	AVG MAG	4.5				
	+-		0.3	0.02	0.01	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ	EPG		23	49	16.1		-0.0	0.22	68				
		I				20.2								
	CNZ	IPG		23	49	21.3	D	-0.9	0.54	205		4.2		
	KRP	IPG		23	49	27.0	U	-0.9	0.82	343		4.6		
		SG				39.5		0.4						
	TUA	PG		23	49	31.8		-0.3	1.03	96		4.6	4.5	
		SG				46.3		0.3						
	TNZ	EPG		23	49	35.6		-0.5	1.23	247		4.6	4.1	
		I				38.0								
		SG				54.0		1.2						
	GNZ	E		23	49	43.8			1.71	88				
		PG				46.5		0.7						
		E			50	14								

														64/ 507
	H	M	S											
DEC 21	00	38	55.5	38.72S	175.86E	12 KM	SE	0.8	AVG MAG	4.1				
	+-		0.3	0.02	0.02	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ	IPG		00	39	01.2	D	0.9	0.21	65				
		I				05.0								
		I				06.4								
	CNZ	IPG		00	39	07.2	D	0.7	0.54	207		4.0	4.1	
		E				17.8								
	TON								0.54	207	2.9			
	KRP	IPG		00	39	11.9	U	-0.6	0.83	342		4.7	4.6	
		SG				24.2		0.4						
	TUA	PG		00	39	16.0		-0.1	1.01	95		4.1	4.2	
		SG				29.8		-0.0						
	TNZ	PG		00	39	20.1		-0.6	1.24	248		4.3	4.1	
		I				22.9								
		I				39.4								
	GNZ	EPG		00	39	29.0		-0.8	1.70	88		4.1	3.9	
		E				34.8								
		E				57								

														64/ 508
	H	M	S											
DEC 21	01	50	04.7	38.70S	175.81E	12 KM	SE	0.3	AVG MAG	4.4				
	+-		0.1	0.01	0.00	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ	PG		01	50	10.2		0.1	0.24	73				
		SG				14.0		0.4						
		E				16.3								
	CNZ	PG		01	50	15.7		-0.0	0.54	202				
	TON								0.54	203	3.7			
	KRP	IPG		01	50	21.0	U	-0.1	0.81	345		4.7	4.5	
		SG				32.0		-0.1						
	TUA	EPG		01	50	25.7		-0.5	1.06	96		5.1	4.8	
		I				26.9								
		SG				40.4		-0.1						
	TNZ	PG		01	50	29.5		0.2	1.21	246		5.0	4.5	
		I				31.9								
		E				48.4								
	GNZ	EP*?		01	50	37.8		2.3*	1.74	89		4.8	4.8	
		PG				39.9		0.0						
		E			51	12								

														64/ 509
	H	M	S											
DEC 21	01	55	30.4	38.69S	175.85E	12 KM	SE	0.9	AVG MAG	3.8				
	+-		0.5	0.03	0.02	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ	SG		01	55	38.5		0.3	0.21	73		3.5		
	CNZ	E		01	55	44.2			0.56	205				

	TON								0.57	205	2.5			
	KRP	PG		01	55	45.8		-1.0	0.80	342		3.9	4.1	
		SG				58.3		0.6						
	TUA	EPG		01	55	51		-0.2	1.02	97		3.7	4.2	
		E			56	04								
	TNZ	EPG		01	55	56		0.3	1.25	246		3.7	3.5	
		E			56	13								
	GNZ	E		01	56	11			1.70	89		3.6		

														64/ 508
	H	M	S											
DEC 21	09	07	28.0	38.68S	175.78E	12 KM	SE	0.9	AVG MAG	4.5				
	+-		0.4	0.03	0.02	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ	EPG		09	07	32.9		-0.7	0.26	79				
		SG				36.8		-0.6						
		I				37.8								
	CNZ	PG		09	07	39.2		-0.1	0.55	199		4.3		
		I				41.9								
		E				53.0								
	TON								0.56	200	3.6			
	KRP	PG		09	07	43.9	U	0.1	0.78	346		4.6	4.6	
		E				57.4								
	TUA	EP		09	07	48.3		-0.4	1.08	97		4.6		
		I				49.8								
	TNZ	EPG		09	07	52.2		-0.2	1.20	245		4.6		
		I				54.8								
	GNZ	EP*		09	08	00.8		1.7	1.76	90		4.6	4.8	
		PG				03.7		0.2						
		I				15.7								

														64/ 509
	H	M	S											
DEC 21	09	18	13.1	38.64S	175.84E	12 KM	SE	0.8	AVG MAG	3.7				
	+-		0.3	0.02	0.01	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ	EPG		09	18	18.1		0.2	0.21	88				
		SG				20.2		-0.9						
		E				22.1								
	CNZ	EPG		09	18	24.6		-0.9	0.60	202		3.3	3.5	
		E				30.9								
		E				34.6								
	TON								0.61	202	2.9			
	KRP	IPG		09	18	28.5		0.0	0.75	342		4.2	4.2	
		S				41.5		-0.4						
	TUA	EPG		09	18	34.0		-0.3	1.04	100		4.0	3.7	
		I				36.0								
		SG				48.2		-0.3						
	TNZ	PG		09	18	38.2		-0.5	1.26	244		3.8	3.6	
		SG				56.8		1.1						
	GNZ	PG		09	18	49.0		1.2	1.71	91		3.9	3.6	
		SG			19	11.8		0.8						

														64/ 510
	H	M	S											
DEC 21	12	11	24.5	38.64S	175.86E	12 KM	SE	1.0	AVG MAG	3.8				
	+-		0.3	0.03	0.02	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ	IP*		12	11	27.9	U	-0.9	0.19	87				
		S*				31.4		-0.4						
	CNZ	IP*		12	11	34.6	D	-1.4	0.61	204		3.4	3.5	
		E				38.9								
	TON								0.61	204	3.0			
	KRP	P*		12	11	39.0		0.4	0.76	340		4.1	3.8	
		S*				48.8		-0.3						
	TUA	P*		12	11	43.0		-0.1	1.02	100		4.2	3.9	
		I				44.8								
		S*				58.0		1.2						
	TNZ	P*		12	11	47.0		-0.5	1.28	244		4.1	3.9	
		I				48.5								

		S*		12 05.9		1.3				
	GNZ	EP*		12 11 55.2		0.7	1.69	91		4.0
		E			57.8					

64/ 511

	H	M	S									
DEC 21	14	55	05.3	38.67S	175.80E	12 KM	SE	1.1	AVG MAG	4.4		
		+-	0.4	0.04	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	IPG		14	55	10.5		-0.2	0.24	82		
		I				14.5						
	CNZ	EPG		14	55	16.1		-0.9	0.57	200		4.1 4.1
		E				21.4						
	TON								0.57	201	3.6	
	KRP	PG		14	55	21.0		0.0	0.77	344		4.5 4.8
		E				34.5						
	TUA	PG		14	55	26.0		-1.0	1.07	98		4.5 4.8
		E				33.5						
		SG				42.5		1.0				
	TNZ	PG		14	55	29.2		-0.9	1.22	244		4.6 4.4
		E				32.2						
		SG				48.2		1.6				
	GNZ	EP*		14	55	36.7		0.5	1.74	90		4.7 4.2
		PG				39.7		-0.9				
		I				42.0						
		S*			56	00.2		0.9				

64/ 512

	H	M	S									
DEC 21	17	00	36.8	38.69S	175.81E	12 KM	SE	0.6	AVG MAG	3.8		
		+-	0.3	0.02	0.01	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG		17	00	42.4		0.3	0.24	75		
		I				46.7						
		I				46.7						
	CNZ	PG		17	00	48.0		-0.0	0.54	202		3.3 3.8
		E				54.4						
	KRP	IPG		17	00	52.9	U	-0.2	0.80	344		4.2 4.1
		SG			01	03.9		-0.0				
	TUA	EPG		17	00	58.0		-0.3	1.05	97		3.8 3.7
		E				59.3						
		ESG			01	12		-0.5				
	TNZ	PG		17	01	01.5		-0.0	1.22	246		3.8 4.1
		SG				19.2		1.2				
		I				20.4						
	GNZ	E(PG)		17	01	12.7		0.8	1.73	89		3.8

64/ 513

	H	M	S									
DEC 21	17	34	02.9	38.69S	175.80E	12 KM	SE	0.3	AVG MAG	3.8		
		+-	0.1	0.01	0.00	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG		17	34	08.6		0.3	0.24	77		
		SG				12.3		0.4				
		I				13.5						
	CNZ	IPG		17	34	14.1	D	-0.1	0.55	201		3.4
		E				19.4						
	KRP	IPG		17	34	19.1		0.1	0.79	345		4.0
		SG				29.6		-0.2				
		I				32.6						
	TUA	EPG		17	34	24.0		-0.5	1.06	97		3.5
		E				25.7						
		SG				39.0		0.1				
	TNZ	EPG		17	34	27.7		0.2	1.21	245		3.5
		E				29.0						
		SG				44.0		0.1				
	GNZ	EPG		17	34	38.0		-0.2	1.74	89		
		E				40.2						

64/ 514

	H	M	S									
DEC 21	17	44	27.8	38.69S	175.83E	12 KM	SE	0.5	AVG MAG	3.6		
		+-	0.2	0.02	0.01	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG		17	44	33.4		0.7	0.22	74		
		I				37.5						
	CNZ	IPG		17	44	39.1	D	-0.1	0.55	204		3.2 3.3
		E				45.3						
	KRP	IPG		17	44	44.0		-0.1	0.80	343		3.9 3.9
		E				54.9						
		I				58.4						
	TUA	EPG		17	44	48.2		-0.6	1.04	97		3.7 3.6
		SG			45	03.2		0.3				
	TNZ	EPG		17	44	52.3		-0.6	1.24	246		3.7 3.8
		SG			45	10.2		0.6				
		I				11.4						
	GNZ	EPG		17	45	02.2		-0.3	1.71	89		3.8 3.5
		E				05.2						
		ES*				21		0.1				

64/ 515

	H	M	S									
DEC 21	20	07	42.6	38.70S	175.80E	12 KM	SE	0.4	AVG MAG	3.8		
		+-	0.2	0.01	0.01	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG		20	07	48.4		0.3	0.25	74		
		I				52.2						
		I				53.2						
	CNZ	IPG		20	07	54.1		0.5	0.53	201		3.7
		SG			08	00.5		-0.5				
	KRP	IPG		20	07	58.5	U	-0.5	0.80	345		4.1 3.0
		SG			08	10.0		0.1				
	TUA	PG		20	08	03.9		-0.3	1.06	96		4.2 3.9
		E				05.2						
		E				26						
	TNZ	EPG		20	08	07.4		0.3	1.21	246		4.0 3.7
		E				10.3						
		E				26.5						
	GNZ	EPG		20	08	18.1		0.2	1.74	89		4.0
		E				20.2						

64/ 516

	H	M	S									
DEC 22	01	55	30.1	38.69S	175.83E	12 KM	SE	0.7	AVG MAG	4.1		
		+-	0.3	0.03	0.01	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG		01	55	35.9		0.7	0.23	74		
		E				40.2						
	CNZ	PG		01	55	41.5		0.0	0.55	203		3.6
		E				50.8						
	KRP	IPG		01	55	46.2	U	-0.3	0.80	343		4.4 4.4
		E				56.4						
	TUA	PG		01	55	50.8		-0.5	1.04	97		4.2 3.8
		SG			56	05.0		-0.5				
	TNZ	PG		01	55	54.3		-0.8	1.23	246		4.2 4.2
		I				58.5						
		SG			56	12.3		0.6				
		I				13.4						
	GNZ	E		01	56	03			1.72	89		4.2 3.8
		PG				05.8		0.8				
		E				31.0						

64/ 517

	H	M	S									
DEC 22	06	18	26.7	38.67S	176.27E	12 KM	SE	0.8	AVG MAG	2.5		
		+-	0.3	0.03	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	PG		06	18	30.6		0.4	0.13	285		
		SG				32.7		0.2				

	TUA	EPG	06 18 42		0.9	0.70	102		2.8	3.1	
		ESG	50		-0.7						
		E	19 08								
	CNZ	EPG	06 18 43		0.5	0.77	226		1.9	2.2	
		SG	52.4		-0.6						
		E	19 01.8								
	KRP	PG	06 18 45.0		-0.7	0.94	322				

64/ 518

	H M S								
DEC 22	10 34 49.0	38.69S	175.86E	12 KM	SE 0.5		AVG MAG	3.7	
	+- 0.2	0.02	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ PG	10 34 53.4		-0.2	0.20	73			
	SG	57.0		0.4					
	CNZ PG	10 35 01.0		0.4	0.57	205		3.3	3.2
	E	11.8							
	TON				0.57	206	2.8		
	KRP IPG	10 35 05.4		0.0	0.80	341		4.2	4.2
	I	17.8							
	TUA PG	10 35 09.0		-0.6	1.02	97		3.7	3.8
	I	12.1							
	SG	23.2		-0.2					
	TNZ PG	10 35 14.0		-0.5	1.26	246		3.9	3.7
	I	15.8							
	SG	31.7		0.2					
	GNZ EPG	10 35 23.8		0.5	1.69	89		3.8	3.8
	E	25.8							
	E	55							

64/ 519

	H M S								
DEC 22	20 15 40.2	38.68S	175.85E	12 KM	SE 1.1		AVG MAG	4.4	
	+- 0.5	0.04	0.03	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ I	20 15 45.2			0.21	78			
	SG	47.2		-0.8					
	CNZ PG	20 15 51.4		-0.6	0.57	204		4.5	
	TON				0.58	204	3.9		
	KRP PG	20 15 56.0	U	-0.3	0.79	342		4.7	
	E	16 08.2							
	TUA PG	20 16 00.2		-0.9	1.03	98		4.7	
	TNZ PG	20 16 06.0		0.4	1.25	246		4.7	4.4
	E	21.2							
	GNZ EP*	20 16 11.4		1.0	1.70	90			
	PG	16.0		1.3					
	I	23.3							
	E	45							
	COB				3.40	224	4.0		
	GPZ				5.56	205	4.5		

64/ 520

	H M S								
DEC 22	20 20 12.2	38.69S	175.86E	12 KM	SE 0.6		AVG MAG	3.7	
	+- 0.2	0.02	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ I	20 20 17.8			0.20	74			
	SG	20.3		0.4					
	E	22.0							
	CNZ PG	20 20 23.3		-0.6	0.57	205		3.2	3.4
	SG	31.4		-0.3					
	KRP PG	20 20 28.0		-0.5	0.80	342		3.7	3.4
	E	41.6							
	TUA EPG	20 20 33.0		0.1	1.02	97		3.9	3.7
	I	34.4							
	E	48.2						4.0	3.4
	TNZ EPG	20 20 37.8		0.1	1.25	246			
	I	39.8							
	SG	55.4		0.8				4.2	
	GNZ E	20 20 49			1.70	89			

64/ 521

	H M S								
DEC 22	21 45 43.6	38.67S	175.84E	12 KM	SE 0.3		AVG MAG	4.3	
	+- 0.1	0.01	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ EPG	21 45 48.8		0.3	0.21	79			
	SG	51.2		-0.5					
	CNZ PG	21 45 55.4		-0.0	0.57	203		4.2	
	KRP PG	21 45 59.6		0.0	0.78	342		4.5	
	E	46 12.2							
	TUA PG	21 46 05.0		0.3	1.04	98		4.4	4.6
	E	21.2							
	TNZ PG	21 46 08.8		-0.1	1.25	245		4.6	
	SG	25.8		0.0					
	WEL P*	21 46 35.0		3.4*	2.74	197	4.1		
	COB				3.39	224	4.0		
	GPZ				5.57	205	4.3		

64/ 522

	H M S								
DEC 22	22 41 19.3	38.73S	175.82E	12 KM	SE 0.3		AVG MAG	3.5	
	+- 0.1	0.01	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ (PG)	22 41 25.0		0.3	0.24	66			
	SG	28.4		0.1					
	CNZ PG	22 41 30.0		0.0	0.51	204		2.5	
	E	35.0							
	KRP PG	22 41 36.2		-0.1	0.83	345		3.8	
	I	49.2							
	TUA EPG	22 41 40.0		-0.5	1.04	95		3.8	
	SG	54.8		0.1					
	TNZ EPG	22 41 44.0		0.1	1.21	248		3.8	
	E	42 06.2							
	E	08.9							
	GNZ E	22 41 55.8			1.73	88			
	E	42 25.0							

64/ 523

	H M S								
DEC 23	12 09 56.4	38.69S	175.85E	12 KM	SE 0.3		AVG MAG	3.5	
	+- 0.1	0.01	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ SG	12 10 04.0		-0.3	0.21	74			
	I	06.4							
	KRP PG	12 10 13.0		0.2	0.80	342		3.6	3.6
	I	27.0							
	TUA EPG	12 10 17.4		0.1	1.03	97		3.5	3.4
	SG	31.4		0.2					
	TNZ EPG	12 10 21.4		-0.4	1.25	246		3.6	3.5
	SG	38.8		0.2					
	GNZ E	12 10 35.2			1.70	89			3.4

64/ 524

	H M S								
DEC 24	05 57 19.1	38.65S	175.84E	12 KM	SE 0.6		AVG MAG	4.3	
	+- 0.2	0.01	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ PG	05 57 23.8		-0.0	0.20	85			
	SG	26.3		-0.6					
	CNZ PG	05 57 30.9		-0.5	0.60	203		4.0	
	SG	40.1		0.5					
	KRP IPG	05 57 35.0	U	0.3	0.76	342		4.7	
	SG	45.2		0.2					
	E	46.8							
	TUA PG	05 57 40.3		0.1	1.04	99		4.5	4.5
	SG	55.1		0.9					
	TNZ PG	05 57 44.0		-0.7	1.26	244		4.3	4.1
	I	46.2							
	SG	58 02.0		0.3					
	GNZ EPG	05 57 53.2		-0.5	1.71	91		4.5	4.4

		E		54.3								
		I		58.4								
		E		58 23.4								
	WEL						2.76	197	3.9			
	COB						3.41	224	3.9			
												64/ 526
	H M S											
DEC 24	10 24 16.2		38.68S	175.89E		12 KM	SE	0.3		AVG MAG		3.8
	+- 0.1		0.01	0.00		R						
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ	EPG	10 24 20.7			0.3	0.18	74				
		SG		22.7		-0.5						
		E		24.7								
	CNZ	PG	10 24 28.2			0.0	0.58	207			3.1	3.1
		E		30.3								
		E		37.2								
	KRP	IPG	10 24 32.4		U	-0.2	0.80	340			3.8	4.1
		SG		43.8		0.2						
	TUA	PG	10 24 36.4			-0.1	1.00	98			3.7	3.5
		SG		50.3		0.3						
	TNZ	PG	10 24 42.0			-0.2	1.28	246			3.7	3.5
		SG		59.5		0.1						
	GNZ	PG	10 24 51.6			1.5*	1.67	89			3.9	
		E		53.4								
												64/ 527
	H M S											
DEC 24	15 11 03.2		38.70S	175.79E		12 KM	SE	0.3		AVG MAG		4.1
	+- 0.1		0.01	0.01		R						
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ	PG	15 11 08.3			-0.4	0.25	74				
		SG		12.6		0.2						
	CNZ	PG	15 11 14.2			0.0	0.53	201			4.1	
		E		17.8								
		E		24.5								
	KRP	PG	15 11 19.6		U	0.1	0.80	345			4.2	4.1
		E		32.0								
	TUA	PG	15 11 25.0			0.2	1.07	96			4.0	4.1
		E		27.0								
		E		43.0								
	TNZ	EPG	15 11 27.6			-0.0	1.20	246			4.3	3.9
		E		28.8								
		E		46.6								
	GNZ	EPG	15 11 38.4			-0.1	1.74	89			4.0	3.7
		E		40.4								
		E		12 32								
	WEL						2.70	197	3.6			
	COB						3.35	224	3.8			
												64/ 528
	H M S											
DEC 24	15 50 27.3		38.70S	175.79E		12 KM	SE	0.2		AVG MAG		3.9
	+- 0.1		0.01	0.00		R						
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ	PG	15 50 32.6			-0.3	0.26	75				
		SG		36.6		-0.0						
	CNZ	PG	15 50 38.2			-0.1	0.54	200			3.7	
		E		40.8								
		E		47.2								
	KRP	PG	15 50 43.6			0.1	0.80	346			4.1	4.1
		SG		55.8		1.5*						
	TUA	PG	15 50 49.1			0.0	1.07	96			4.0	4.1
		E		51.7								
		SG		51 03.9		0.3						
	TNZ	EPG	15 50 51.8			0.1	1.20	246			4.3	3.7
		E		53.9								
		E'		51 10.2								
	GNZ	EPG	15 51 02.6			-0.1	1.75	89			3.9	
		E		04.6								

	WEL						2.70	197	3.6			
	COB						3.35	224	3.8			
												64/ 528
	H M S											
DEC 24	17 50 12.6		38.69S	175.81E		12 KM	SE	0.5		AVG MAG		3.9
	+- 0.3		0.03	0.02		R						
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ	PG	17 50 18.0			0.1	0.24	75				
		I		22.0								
	KRP	PG	17 50 28.8			-0.0	0.80	344			4.3	4.2
		E		41.6								
	TUA	EP	17 50 33.5			0.5	1.06	97			3.9	3.9
		E		36.1								
		E		48.8								
		E		56.3								
	TNZ	EPG	17 50 37.2			-0.1	1.22	246				
		I		39.3								
		E		55.4								
	GNZ	EPG	17 50 47.2			-0.5	1.73	89			3.9	3.7
		E		50.0								
		E		51 34.2								
	WEL						2.71	197	3.6			
	COB						3.36	224	3.8			
												64/ 529
	H M S											
DEC 25	15 40 19.6		38.73S	175.81E		12 KM	SE	0.4		AVG MAG		4.0
	+- 0.2		0.01	0.01		R						
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ	PG	15 40 25.2			0.1	0.25	66				
		SG		28.4		-0.3						
	KRP	IPG	15 40 36.0			-0.6	0.83	345			4.3	4.2
		SG		48.4		0.5						
	TUA	PG	15 40 40.8			-0.1	1.05	95			3.9	4.0
		E		43.0								
		SG		55.4		0.3						
	TNZ	PG	15 40 44.2			0.1	1.21	247			4.2	
		E		46.8								
	GNZ	E	15 40 56.2				1.73	88			3.9	3.6
		E		41 23								
	COB						3.34	224	3.8			
												64/ 530
	H M S											
DEC 25	20 09 50.9		38.73S	175.80E		12 KM	SE	1.0		AVG MAG		4.5
	+- 0.5		0.03	0.02		R						
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WNZ	PG	20 09 56.3			-0.3	0.26	67				
		E		58.1								
		SG		59.8		-0.6						
	KRP	IPG	20 10 06.0		U	-1.9	0.83	346			4.7	
	TUA	IPG	20 10 12.0			-0.5	1.06	94			4.7	4.7
		ESG		27		0.1						
		E		34								
	TNZ	PG	20 10 14.6			-0.5	1.19	247			4.6	4.7
		E		34.2								
	GNZ	P*	20 10 22.7			0.8	1.75	88			4.7	4.9
		PG		27.0		0.7						
		E		59								
	ECZ	EP*	20 10 33.0			-0.1	2.40	65			3.8	4.0
		E		46								
	WEL						2.67	197	4.2			
	ONE	EP*	20 10 48			1.8	3.17	338				
		EPG		55		0.1						
		ESG		11 38		0.4						
		E		43								
	COB						3.33	224	4.0			

64/ 53[illegible]

	H M S	LAT	LONG	DEPTH		AVG MAG
DEC 25	20 10 26.6	38.69S	175.89E	12 KM	SE 0.6	4.5
	+- 0.3	0.02	0.01	R		

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	E	20 10 32.0			0.18	72			
	SG	34.0		0.4					
KRP	E(SG)	20 10 54		-0.1	0.81	340			
TUA	EPG	20 10 46.4		-0.4	0.99	97		4.7	[illegible]
	E	11 03							
	E	08							
TNZ	E	20 10 55			1.28	247		4.9	[illegible]
	ESG	11 10		0.1					
GNZ	E	20 11 28			1.67	89			[illegible]
ONE	E	20 12 19			3.15	337	4.2		
	E	25							

64/ 53[illegible]

	H M S	LAT	LONG	DEPTH		AVG MAG
DEC 25	20 17 54.3	38.69S	175.82E	12 KM	SE 0.8	4.2
	+- 0.4	0.02	0.02	R		

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	(PG)	20 18 00.0		0.6	0.23	74			
	I	03.1							
	E	05.1							
	E	09.0							
KRP	IPG	20 18 10.9	U	0.3	0.80	344		4.1	[illegible]
	E(SG)	21		-0.5					
TUA	PG	20 18 15.0		-0.5	1.05	97		4.2	[illegible]
	E	18.2							
	SG	29.0		-0.7					
TNZ	EPG	20 18 19.0		-0.1	1.23	246		4.1	[illegible]
	E	37.5							
GNZ	PG	20 18 30.2		1.0	1.72	89			[illegible]
	E	32.0							
WEL					2.71	197	4.2		
COB					3.37	224	4.1		
KAI					5.09	220	4.6		
GPZ					5.54	205	4.5		

64/ 53[illegible]

	H M S	LAT	LONG	DEPTH		AVG MAG
DEC 27	08 21 10.7	34.22S	179.13E	144 KM	SE 1.5	4.3
	+- 2.7	0.17	0.09	41		

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	08 22 05		-0.1	3.50	188		4.5	[illegible]
	E	12							
	E	57							
	E	23 01							
ONE	EP	08 22 14		-0.5	4.21	247	4.2		
	ES	23 03		-0.5					
GNZ	EP	08 22 16.5		-1.9	4.51	191		4.6	[illegible]
	E	24							
	E	23 17							
KRP	P	08 22 23.0		1.9	4.70	217		4.4	[illegible]
	E	33							
	E	57							
TUA	EP	08 22 23		0.0	4.85	199		4.6	[illegible]
	I	31							
	E	23 04							
CNZ	EP	08 22 36		1.1	5.74	209		4.1	[illegible]
	E	23 52							
TON					5.75	209	4.4		
WEL	S	08 24 32		1.0	7.85	205			
GPZ	ES	08 25 38		-1.1	10.72	206	5.2		

64/ 5[illegible]

	H M S	LAT	LONG	DEPTH		AVG MAG
DEC 27	11 49 23.3	40.11S	175.11E	33 KM	SE 1.1	3.7
	+- 0.4	0.02	0.04	R		

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TON					0.97	20	3.4		
CNZ	IP*	11 49 41.2	U	-0.6	0.97	21		3.9	4.0
	S	52.5		0.3					
	I	55.0							
TNZ	EP*	11 49 43.0		-0.3	1.08	329		3.5	3.5
	S*	59.8		1.7					
WEL	P*	11 49 46.3		0.9	1.20	192	3.5		
	S*	50 02		0.3					
TUA	EP*	11 50 00.0		0.3	2.05	51		3.7	3.7
	E	34.0							
COB	EP*	11 49 59.8		-0.0	2.05	241	3.3		
	S*	50 22		-5.0*					
KRP	P*	11 50 02.0		-0.5	2.21	9		3.5	4.0
	S*	29.9		-1.8					
	E	34.0							
GNZ	EP*	11 50 12		1.3	2.69	58		3.7	
	E	22							
KAI					3.68	228	3.8		
GPZ	ES	11 51 05		-1.5	4.02	206	4.1		

64/ 535

	H M S	LAT	LONG	DEPTH		AVG MAG
DEC 27	23 15 03.7	38.72S	175.83E	12 KM	SE 0.4	3.9
	+- 0.1	0.01	0.01	R		

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	IPG	23 15 09.0	U	0.1	0.23	68			
	SG	12.7		0.4					
CNZ	PG	23 15 14.8	D	0.3	0.53	204		3.2	3.5
	SG	22.0		0.3					
	I	24.0							
KRP	IPG	23 15 20.3		-0.2	0.83	344		4.4	4.3
	I	22.5							
	ESG	32		0.2					
TUA	EPG	23 15 24.2		-0.6	1.04	95		4.1	4.1
	I	26.4							
	SG	38.8		-0.1					
TNZ	EPG	23 15 28.0		-0.4	1.22	247		4.3	3.4
	I	30.8							
	E	46.8							
GNZ	PG	23 15 40.4		1.9*	1.72	88		4.1	

64/ 536

	H M S	LAT	LONG	DEPTH		AVG MAG
DEC 28	02 46 20.6	38.21S	176.09E	212 KM	SE 1.9	4.4
	+- 1.6	0.09	0.07	11		

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	02 46 49.2	U	-0.1	0.52	303		4.0	3.8
	S	47 08.8		-2.5					
TUA	P	02 46 52.6		0.7	1.03	126		4.3	4.9
	S	47 14.7		-1.5					
CNZ	IP	02 46 54.0	U	1.7	1.08	203		4.1	3.5
	S	47 19.2		2.4					
TON					1.08	203	3.5		
GNZ	P	02 46 56.2		-0.1	1.58	107		4.8	4.9
	E	47 18.6							
	S	23.2		-0.7					
TNZ	P	02 46 59.6		2.6	1.66	233		4.4	
	E	47 09.6							
WEL	IP	02 47 15.4		1.2	3.24	198	4.4		
	S	57.0		1.3					
COB	ES	02 48 09		-0.2	3.87	221	4.4		
KAI	S	02 48 46		-2.2	5.60	218	4.7		
GPZ	EP	02 47 49		-0.7	6.07	204	5.2		
	ES	48 57		-2.0					

64/ 537

	H M S	LAT	LONG	DEPTH		AVG MAG
DEC 28	05 41 43.3	38.67S	175.87E	12 KM	SE 1.5	3.7
	+- 0.6	0.05	0.03	R		

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	EPG	05	41	47.4		-0.2	0.19	79			
		SG			50.0		-0.5					
		E			52.0							
	CNZ	PG	05	41	53.3		-2.1	0.59	205		3.6	3.7
		E		42	02.0							
	KRP	PG	05	41	59.0		-0.3	0.78	340		3.7	3.8
		E		42	03.0							
		E			13.0							
	TUA	EPG	05	42	03.6		-0.3	1.01	98		3.8	3.8
		E			05.2							
		ESG			18		0.4					
	TNZ	EPG	05	42	07.5		-1.6	1.27	245		4.0	3.7
		I			09.2							
		S			26.4		2.6					
	GNZ	PG	05	42	18.6		1.1	1.69	90		3.8	3.5
		E			47							
	WEL	P*	05	42	32.4		0.9	2.75	198	3.6		
		I			43.4							
	COB							3.42	224	3.9		

64/ 539

	H	M	S						AVG MAG	3.8
DEC 28	05	48	33.0	38.70S	175.83E	12 KM	SE	1.0		
	+-		0.4	0.03	0.02	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	(PG)	05	48	38.6		0.6	0.22	72			
		I			42.0							
		I		49	03.0							
	CNZ	PG	05	48	44.2		-0.1	0.55	204		3.5	3.5
		SG			50.6		-1.2					
	KRP	IPG	05	48	49.0		-0.5	0.81	343		4.0	4.1
		E			52.0							
		E		49	03.0							
	TUA	PG	05	48	53.6		-0.4	1.04	96		3.9	3.7
		I			54.8							
		SG		49	07.8		-0.3					
	TNZ	PG	05	48	57.6		-0.4	1.23	246		3.9	3.6
		I		49	01.1							
		SG			15.0		0.3					
	GNZ	E	05	49	10.4			1.71	89		3.9	
	WEL	EP*	05	49	22.4		1.9	2.71	197	3.6		
	COB							3.37	224	3.5		

64/ 540

	H	M	S						AVG MAG	3.4
DEC 28	09	20	16.9	38.73S	175.79E	12 KM	SE	0.7		
	+-		0.3	0.01	0.01	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	EPG	09	20	22.6		0.0	0.26	68			
		E			25.6							
	CNZ	PG	09	20	27.4		0.1	0.51	202		3.2	3.2
		E			37.3							
	KRP	PG	09	20	33.8		0.0	0.83	346		3.6	3.5
		SG			44.8		-0.3					
		E			47.2							
	TUA	EPG	09	20	38.6		0.1	1.06	95		3.5	3.5
		SG			51.8		-1.1					
	TNZ	EPG	09	20	41.0		-0.1	1.19	247		3.7	3.1
		I			43.2							
		E			59.8							
	GNZ	PG	09	20	53.6		1.4	1.75	88		3.4	
	WEL	ESG	09	21	46.8		-0.2	2.67	197	3.3		
		E			55.3							

64/ 541

	H	M	S						AVG MAG	3.2
DEC 28	10	03	55.1	38.77S	175.80E	12 KM	SE	ND		
			ND	ND	ND	ND				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IPG	10	04	05.0		-0.0	0.48	205			
	KRP	IPG	10	04	12.8		-0.0	0.87	346		3.0	
	TNZ	EPG	10	04	19.2		0.0	1.18	249		3.4	

64/ 542

	H	M	S						AVG MAG	4.2
DEC 28	10	03	57.2	38.75S	175.78E	12 KM	SE	0.8		
	+-		0.3	0.03	0.02	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	(PG)	10	04	03.6		0.3	0.28	64			
		E			08.4							
	CNZ	IPG	10	04	07.0		-0.2	0.48	202			
	KRP	IPG	10	04	14.2		-0.3	0.85	347		4.1	
	TUA	PG	10	04	18.0		-1.0	1.07	93		4.1	
		E			19.4							
	TNZ	IPG	10	04	21.2		0.2	1.17	248		4.3	
	GNZ	P*	10	04	29.4		1.0	1.76	87		4.2	
		PG			32.8		-0.0					

64/ 543

	H	M	S						AVG MAG	4.6
DEC 28	10	04	04.0	38.80S	175.75E	12 KM	SE	0.5		
	+-		0.2	0.01	0.01	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	PG	10	04	10.4		-0.5	0.32	59			
		I			13.4							
		SG			15.6		0.1					
	CNZ	PG	10	04	13.0		-0.0	0.43	201			
	KRP	IPG	10	04	22.0		-0.1	0.89	349		4.6	4.6
		SG			34.2		0.1					
	TUA	PG	10	04	25.7		-0.6	1.10	91		4.6	
	TNZ	PG	10	04	27.1		0.0	1.13	250		5.7	4.6
		E			45.0							
	GNZ	PG	10	04	41.1		0.9	1.79	86			
	WEL							2.60	197	4.3		
	COB							3.26	224	4.1		
	KAI							4.98	220	4.5		

64/ 544

	H	M	S						AVG MAG	4.1
DEC 28	13	22	48.4	38.70S	175.76E	12 KM	SE	1.3		
	+-		0.5	0.03	0.03	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	E	13	22	55.0			0.27	76			
		I			59.0							

	KAI	E	10 31 37				5.11	219	4.6	
		E	50							
		E	32 31				5.57	204	4.5	
	GPZ									

64/ 551

	H M S								
DEC 30	13 08 00.1	38.86S	178.41E	60 KM	SE 2.3		AVG MAG	4.1	
	+- 1.9	0.12	0.13	18					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	13 08 12.3	D	0.9	0.37	305			
	S	18.0		-1.7					
TUA	P	13 08 20.2		1.8	0.99	273		4.4	4.3
	S	32.4		0.3					
ECZ	P	13 08 20.0		-0.9	1.17	5		4.6	
	I	21.4							
	E	35.2							
	E	37.0							
CNZ	EP	13 08 38.2		2.4	2.26	260		4.0	3.6
	E	45.0							
	I	51.2							
	ES	09 02		-0.5					
KRP	P	13 08 36.2		-2.3	2.44	292		4.2	3.8
	I	43.8							
	I	55.0							
	E	09 09						4.0	
TNZ	EP	13 08 51.0		2.4	3.16	263			
	E	09 06							
WEL	E	13 09 10			3.70	228	4.5		
	S	42		3.1					
COB	E	13 09 32			4.90	241			
	ES	10 09		0.1					
KAI	ES	13 10 45		-2.8	6.46	233	4.8		
GPZ	S	13 10 46		-2.7	6.49	220	4.9		

64/ 552

	H M S								
DEC 30	16 04 26.8	31.83S	177.62W	555 KM	SE 1.2				
	+- 47.7	3.42	3.08	170					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	16 06 13		0.6	6.65	207			
	E	07 16							
GNZ	EP	16 06 21		-1.3	7.68	206			
	I	28							
	I	39							
ONE	EP	16 06 23		0.0	7.75	237			
TUA	EP	16 06 28		0.8	8.17	210			
	E	37							
KRP	P	16 06 27.8		-0.5	8.28	221			
	I	34.0							
CNZ	EP	16 06 38		0.3	9.23	215			
	E	48							
TNZ	E	16 06 50			9.82	219			
	E	57							

64/ 553

	H M S								
DEC 30	16 12 52.2	38.72S	175.83E	12 KM	SE 0.6		AVG MAG	3.7	
	+- 0.2	0.01	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	E	16 12 58.0		-0.7	0.23	68			
	SG	13 00.0							
	E	01.8						3.4	3.5
CNZ	PG	16 13 03.2		0.1	0.53	205			
	I	12.4						4.0	3.8
KRP	IPG	16 13 08.8	U	-0.2	0.82	344			
	SG	20.6		0.4				3.7	3.4
TUA	EPG	16 13 13.0		-0.2	1.03	95			
	E	15.5							
	ESG	28		0.8					

	TNZ	EPG	16 13 16.9		-0.1	1.22	247		3.9	3.6
		I	19.0							
		E(SG)	37		3.4*					
	GNZ	E	16 13 29.5			1.72	88		3.8	3.6
		E	14 02							

64/ 553

	H M S								
DEC 30	16 35 23.8	33.55S	179.23W	239 KM	SE 0.7		AVG MAG	4.7	
	+- 13.6	0.73	0.73	70					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	16 36 33.5		-0.4	4.52	203		4.7	4.5
	E	40.0							
	E	37 43							
GNZ	EP	16 36 47		0.3	5.55	203		4.9	
	E	56							
ONE	EP	16 36 49		0.0	5.73	245			
TUA	EP	16 36 53		0.5	6.01	208			
	E	58							
	E	38 07							
KRP	P	16 36 53.8		0.2	6.10	223			
	I	59.5							
CNZ	EP	16 37 05		-0.5	7.04	215			
	I	10							
	I	15							
TNZ	E	16 37 20			7.63	221			
	E	24							
WEL	EL	16 40 42			9.08	210			
COB	E	16 37 50			9.88	218			

64/ 554

	H M S								
DEC 30	22 39 08.5	38.73S	175.83E	12 KM	SE 0.5		AVG MAG	4.4	
	+- 0.2	0.02	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	22 39 14.0		0.3	0.23	66			
	I	16.2							
	I	20.8							
CNZ	IPG	22 39 19.6		0.4	0.52	205			
KRP	IPG	22 39 25.6		0.1	0.83	344		4.5	4.6
	I	38.7							
TUA	PG	22 39 29.0		-0.5	1.04	95		4.6	4.4
	I	30.2							
	SG	44.0		0.4					
TNZ	PG	22 39 33.0		-0.2	1.22	247		4.7	4.4
	I	36.4							
	E	51.7							
GNZ	EPG	22 39 42.8		-0.5	1.72	88		4.7	
	E	46.4							
	E	46.4							
ONE					3.17	338	3.9		
COB					3.35	224	4.0		
KAI					5.07	220	4.4		
GPZ					5.51	205	4.3		

64/ 555

	H M S								
DEC 31	07 13 56.0	38.72S	175.84E	12 KM	SE 0.5		AVG MAG	3.8	
	+- 0.2	0.01	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	07 14 01.2		0.2	0.22	67			
	SG	05.0		0.7					
CNZ	PG	07 14 07.0		0.1	0.53	205		3.5	3.5
	SG	14.5		0.2					
KRP	PG	07 14 12.8		-0.1	0.83	343		4.1	4.0
	I	26.0							
TUA	EPG	07 14 16.5		-0.4	1.03	95		3.7	3.7
	SG	31.0		0.2					
TNZ	PG	07 14 20.2		-0.8	1.23	247		4.1	4.0
	I	22.4							

		SG		38.0		0.4				
	GNZ	E	07 14	33.8			1.71	88		3.8 3.5
		ESG		53		-0.7				

64/ 55

	H M S								
DEC 31	08 22 41.5	38.71S	175.80E	12 KM	SE 0.7			AVG MAG	3.8
	+- 0.3	0.02	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ EPG	08 22 46.8		-0.2	0.25	72			
	I	48.4							
	I	50.8							
	CNZ PG	08 22 52.2		-0.2	0.53	202			3.5 3.6
	SG	23 00.0		0.3					
	KRP PG	08 22 58.0		0.0	0.81	345			3.9 4.0
	I	23 11.4							
	TUA EPG	08 23 02.4		-0.6	1.06	96			3.8 3.8
	I	05.0							
	SG	17.0		-0.4					
	TNZ PG	08 23 05.8		-0.2	1.21	246			4.0 3.9
	I	07.8							
	I	23.6							
	GNZ EPG	08 23 18		1.3	1.74	89			3.9

64/ 55

	H M S								
DEC 31	13 09 14.8	38.71S	175.83E	12 KM	SE 0.9			AVG MAG	3.8
	+- 0.3	0.02	0.02	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ (PG)	13 09 20.2		0.4	0.23	70			
	E	24.0							
	CNZ PG	13 09 25.2		-0.6	0.54	204			3.6 3.7
	SG	33.4		0.2					
	KRP PG	13 09 31.1		-0.3	0.82	344			4.1 4.2
	E	34.6							
	I	45.2							
	TUA PG	13 09 35.0		-0.8	1.04	96			3.9 3.7
	E	37.6							
	SG	49.5		-0.4					
	TNZ PG	13 09 39.0		-0.7	1.23	247			3.9 4.1
	I	41.0							
	SG	57.0		0.7					
	GNZ EPG	13 09 51		1.5	1.72	88			3.8
	E	10 00							

64/ 55

	H M S								
DEC 31	17 05 10.6	35.91S	178.81E	203 KM	SE 0.8			AVG MAG	4.1
	+- 1.0	0.05	0.07	10					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ P	17 05 48		0.4	1.80	187		4.0	4.3
	S	06 17		0.8					
	GNZ EP	17 05 58		-0.7	2.80	193		4.2	4.3
	S	06 35		-0.8					
	TUA EP	17 06 03		-0.1	3.18	204		4.1	4.3
	S	44		0.4					
	KRP P	17 06 04.8		0.3	3.30	231		3.8	4.1
	WNZ ES	17 06 49		-0.9	3.47	218			
	ONE EP	17 06 08		-0.3	3.61	271			
	CNZ EP	17 06 24		8.6*	4.19	217		3.6	3.4
	E	07 16						4.1	
	TNZ E	17 06 27			4.80	226			
	COB ES	17 08 12		0.9	7.03	221	4.8		

64/ 55

	H M S								
DEC 31	17 56 30.7	38.70S	175.82E	12 KM	SE 0.6			AVG MAG	3.7
	+- 0.2	0.02	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ EPG	17 56 35.8		-0.0	0.23	73			
	E	40.0							

	CNZ PG	17 56 41.8		-0.2	0.55	203		3.5	3.6
	SG	49.2		-0.3					
	KRP PG	17 56 47.0		-0.1	0.80	344		3.9	3.8
	E	57 01.0							
	TUA EPG	17 56 51.4		-0.5	1.04	96		3.7	3.6
	E	53.4							
	SG	57 06.8		0.7					
	TNZ EPG	17 56 55.2		-0.4	1.23	246		4.0	3.9
	E	57.6							
	SG	57 13.0		0.8					
	GNZ E	17 57 08.0			1.72	89		3.8	3.6
	E	40							

64/ 560

	H M S								
DEC 31	21 28 40.3	38.73S	175.84E	12 KM	SE 0.3			AVG MAG	3.9
	+- 0.1	0.01	0.01	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ I(PG)	21 28 45.8		0.4	0.23	65			
	I	50.0							
	CNZ PG	21 28 51.2		0.1	0.52	206		3.7	3.7
	E	29 03.2							
	KRP PG	21 28 57.2		-0.1	0.83	343		4.0	4.0
	E	29 28.8							
	TUA PG	21 29 00.8		-0.4	1.03	95		4.0	4.1
	E	02.0							
	SG	15.2		0.0					
	TNZ PG	21 29 05.2		0.0	1.23	248		4.1	3.8
	E	27.4							
	GNZ EPG	21 29 15.0		0.0	1.71	88		4.1	3.7
	E	18.0							
	I	19.6							
	E	43							

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 receives 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.

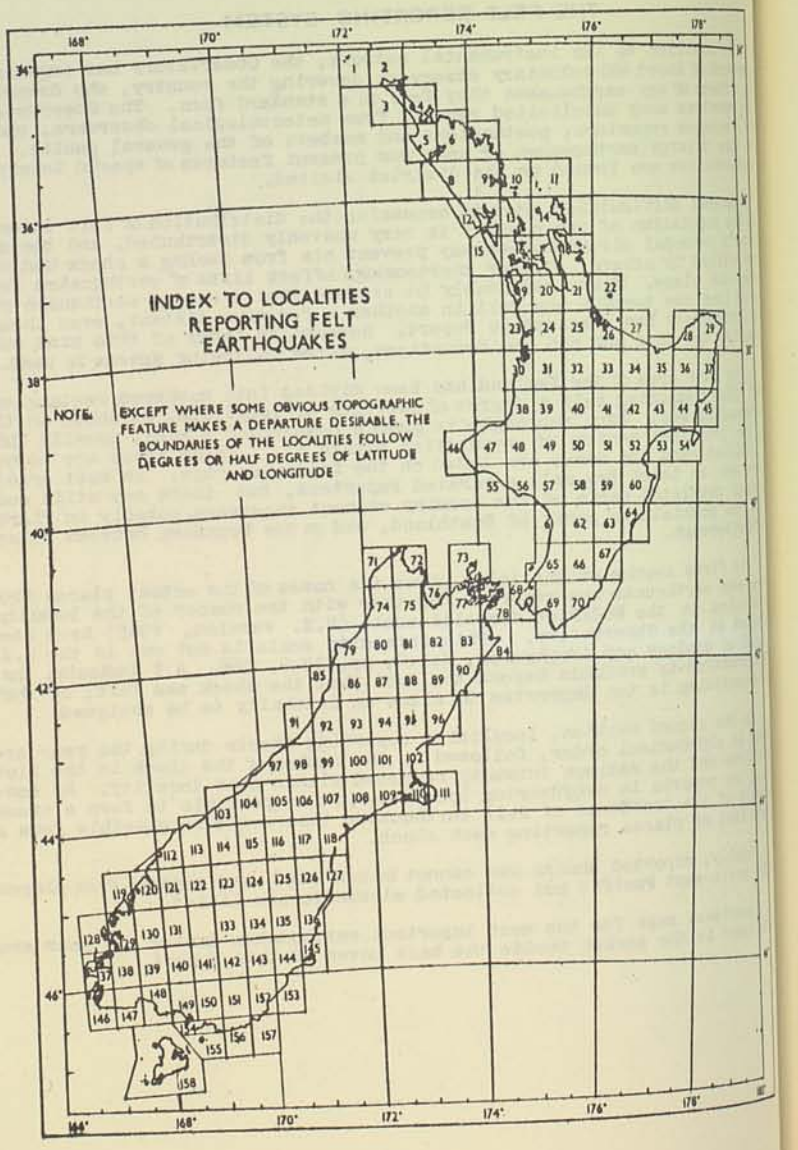
The land area of New Zealand has been divided into numbered rectangles, with sides measuring half a degree of latitude or longitude, as shown on the accompanying map. Each rectangle is given a number and a name, usually that of the principal centre of population within it. These areas are termed 'localities', 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.

Isoseismal maps for the most important earthquakes during the year are to be found in the pocket inside the back cover of this Report.



LIST OF 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 Murupara
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 Ohakune
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.
159 Chatham Is.

PLACES REPORTING FELT EARTHQUAKES

64/4a	Jan	5d	04h 33m
		MM5	Westport (79)
64/6	Jan	7d	18h 11m
		MM4	Murchison (80)
64/6a	Jan	9d	17h 59m
		MM3	Maketu (26)
64/6b	Jan	9d	18h 10m
		MM4	Maketu (26)
64/7	Jan	9d	18h 18m
		MM3	Maketu (26)
64/8	Jan	9d	21h 47m
		MM3	Wellington (68)
		MM2	Kelburn (68)
		"slight"	Wanganui (57)
		?	Woodbourne (77)
64/10	Jan	11d	04h 56m
		MM3	Khandallah (68)
64/13	Jan	11d	13h 09m
		MM4	Maketu (26)
64/19	Jan	15d	14h 47m
		MM4	Te Uri (63); Eketahuna (66); Te Kopi (70).
		MM3	Palmerston North (62); Pongaroa (67).
64/21	Jan	17d	10h 43m
		MM4	Maketu, Tauranga (26).
64/22	Jan	17d	13h 08m
		MM4	Maketu, Tauranga (26).
64/23	Jan	17d	14h 03m
		MM2	Tauranga (26)
64/26	Jan	19d	23h 17m
		MM3	York Bay (68)
64/34a	Feb	2d	10h 41m
		MM4	Otangaroa, Totara North (6).
64/34b	Feb	2d	21h 42m
		MM4	Geyser Valley (41)
		MM3	Wairakei (41)
64/34c	Feb	2d	21h 51m
		MM4	Geyser Valley (41)
64/35	Feb	3d	18h 48m
		MM4	Tokaanu, Turangi (40)
64/36	Feb	4d	02h 18m
		MM3	Okoia (57)
64/37	Feb	4d	15h 57m
		MM4	Karioi (50); Okoia (57).
64/38	Feb	6d	14h 32m
		MM4	Raetihi (49); Karioi (50); Mangaweka (58).

64/42	Feb	9d	15h 42m
		MM4	Patoka (52)
		MM3	Waipawa (60)
64/43	Feb	10d	10h 46m
		MM4	Wairoa (53)
		MM3	Patoka (52)
64/46	Feb	12d	18h 41m
		MM4	Okoia (57); Waikanae Beach (65); Kelburn, Paekakariki Hill (68).
		MM3	Day's Bay, Lower Hutt (68).
64/50	Feb	20d	00h 54m
		MM4	Tarakohe (72)
64/51	Feb	21d	17h 26m
		MM4	Ardkeen, Wairoa (53).
64/52	Feb	22d	01h 47m
		MM4	Wairoa (53)
		MM3	Waipawa (60)
		MM2	York Bay (68)
		?	Napier (52); Eastbourne, Lowry Bay (68).
64/58	Feb	28d	10h 33m
		MM2	Wellington (68)
64/65	Mar	1d	17h 48m
		MM3	Rotorua (33)
64/66	Mar	2d	15h 48m
		MM4	Westport (79); Mangles Valley (80).
64/67	Mar.	3d	08h 21m
		MM3	Wairakei (41)
64/68	Mar	3d	08h 24m
		MM4	Taupo (41)
		MM3	Wairakei (41)
64/70	Mar	4d	23h 42m
		MM4	Wairakei (2 reports) (41)
		?	Taupo (41)
64/70a	Mar	4d	23h 43m
		MM4	Wairakei (41)
64/70b	Mar	4d	23h 44m
		MM4	Wairakei (41)
64/70c	Mar	4d	23h 55m
		MM4	Wairakei (2 reports) (41)
64/72	Mar	8d	01h 35m (See Isoseismal Map.)
		MM6	Milford Sound (120); Lake Marian (121).
		MM5	Whataroa (97); Haast (2 reports), Haast Beach (103); Bruce Bay (104); Godley Peaks Stn., Lake Tekapo (105); Brady Creek, Hunter Valley, Makarora, Minaret Stn., Lake Wanaka (114); Lake Ohau (115); Cascade Creek, Earnslaw, Glenorchy, Lake Marian (121); Arrowtown, Skippers (122); Mt. Aspiring Stn., Glendhu Bay (2 reports), Hawea Flat, Luggate, Tarras, Wanaka (two reports) (123); Te Anau (2 reports) (130); Garston, Kingston, Queenstown (132); Cromwell (133); Monowai

			MM4	(2 reports) (139); Dipton (140); Moa Flat (142); Clifden (148); Hedgehope (150). Barrytown (85); Ross (91); Kowhitirangi (9 Waitaha Valley (98); Mahitahi (104); Albury Cave (117); Milford Sound (120); Otiake-Kum (124); Livingstone (125); Te Anau (130); Gibbstown, Queenstown (132); Alexandra, Co roy's Gully, Cromwell (133); Becks, Lauder (2 reports), Matakanui (134); Naseby, Wai piata (2 reports) (135); Palmerston (136); Eastern Bush, Manapouri, Mossburn (139); Eyre Creek, Lumsden, Mossburn (140); Athol, Otama, Kaweku (141); Edievale, Kelso, Rox burgh (2 reports), Waikaka (142); Waipori Falls (143); Outram (144); Otautau, Te Tua (148); Gummies Bush (149); Gore (2 reports), Waimumu (150); Benio (151); Awarua (154).
			MM3	Blackball (85); Hokitika (91); Oamaru (13 Waikaia (141); Berwick, Dunedin (144); Dunedin (145); Puysegur Point (146); Centre Island (148); Otapiri, Invercargill, Rivert (149); Clarendon (153); Waipapa Point (15
			MM2	Kumara (92); Mesopotamia (106); Waiho Dows (126).
				"Not felt" reports were received from observers in localities 79, 80, 86, 87, 91, 93, 94, 9 101, 106, 108-111, 117, 118, 123, 125-127, 13 136, 140, 143-145, 148-154, 156.
64/77	Mar	13d		17h 10m
			MM4	Ohakune, Okoia (57); Mangaweka (58).
64/79	Mar	18d		04h 18m
			MM4	Wellington (68)
64/85	Mar	23d		22h 02m
			MM4	Okoia (57)
64/88	Mar	26d		15h 51m
			MM4	Uruti (38); Waitotara (56); Okoia, Wanganui (57); Wellington (68).
64/93	Mar	29d		08h 57m
			MM4	Ngakuru (33)
64/95	Mar	31d		05h 55m
	"sharp jolt"			Cape Campbell (84)
64/96	Mar	31d		09h 32m
			MM4	Molesworth (89)
64/97	Mar	31d		22h 47m
			MM4	Tarakohe (72)
64/97a	Apr	2d		02h 29m
			?	Wellington (68)
64/102	Apr	7d		19h 54m
			MM4	Westport (79)
64/105	Apr	11d		14h 45m
			MM6	Totara North (6)
			MM5	Kaeo, Otangaroa (6).
			MM4	Fairburns (5); Okaihau, Omahuta, Tau's Falls (6); Paihia (7).
			MM3	Awanui (5)

64/106a	Apr	12d		02h 44m
			MM4	Kaitaia (5); Kaeo, Otangaroa, Totare North (6).
64/107	Apr	12d		11h 10m
			MM4	Lake Okataina (33); Whatatutu (36); Ihuraua (66).
			MM3	Waipawa (60); Wellington (3 reports) (68); Te Kopi (70).
			MM2	Gisborne (44); Patoka (52).
64/108a	Apr	14d		17h 59m
			MM4	Otangaroa, Totara North (6).
			?	Kaeo (6)
64/108b	Apr	15d		12h 01m
			MM4	Totara North (6)
64/109	Apr	15d		15h 02m
			MM4	Deep Cove (129); Eastern Bush, Manapouri (139); Nightcaps (140).
			?	Monowai (139)
64/110	Apr	15d		16h 50m
			MM5	Opotiki (35)
			MM4	Cape Runaway (29); Whatatutu (36); Tokomaru Bay, Tolaga Bay (37).
64/115	Apr	21d		13h 46m
			MM4	Gisborne (44); Wairoa (53).
64/117	Apr	23d		08h 04m
			MM4	Ihuraua (66)
64/120a	Apr	25d		01h 07m
			MM5	Totara North (6).
64/121	Apr	27d		09h 20m
			MM3	Lower Hutt, Waterloo (68).
64/122	Apr	27d		09h 47m
			MM3	Lower Hutt (68)
64/124	May	2d		02h 27m
			MM4	Manapouri, Monowai (139); Clarendon (153).
64/126	May	2d		10h 06m
			MM3	Maketu (26)
64/127	May	3d		12h 38m
			MM4	Masterton, Te Kopi (70).
64/129	May	5d		18h 03m
			MM3	Ihuraua (66), Wellington (68).
			MM2	Dannevirke (63)
64/131a	May	7d		10h 07m
			MM4	Wairakei (41)
64/131b	May	7d		16h 22m
			MM3	Turangi (40)
64/132	May	7d		16h 31m
			MM4	Turangi (40)
64/133	May	8d		11h 47m
			MM4	Wellington (68); Collingwood (72); Tadmor

				(75); Blenheim (77); Port Underwood (78); Arnaud (81); Leatham (82).
			MM3	Wellington (68); Allandale (110).
			"sharp"	Woodbourne (77)
			?	Nelson (76)
64/135	May	9d	02h 39m	
			MM4	Turangi (40)
64/137	May	10d	17h 23m	
			MM4	Te Kopi (70)
64/141	May	15d	01h 56m	
			MM4	Ohakune (49)
64/148	May	20d	12h 33m	
			MM4	Mangles Valley (80)
			MM2	Murchison (80)
			"sharp"	Westport (79)
64/155a	May	22d	01h 55m	
			MM5	Wairakei (41)
			MM4	Taupo, Wairakei (41).
64/155b	May	22d	01h 55m	
			MM3	Taupo, Wairakei (41).
64/155c	May	22d	02h 05m	
			MM4	Taupo, Wairakei (41).
			MM3	Taupo
64/158	May	24d	22h 25m	
			MM4	Opotiki (35); Tokomaru Bay, Tolaga Bay (37); Wairoa (53); Te Whanga (70).
			MM3	Kohurau (51); Dannevirke (63).
			MM2	Napier (52); Wellington (68).
64/169	Jun	3d	10h 10m	
			MM4	Okoia (57); Paraparaumu (65); Upper Hutt (68).
			MM3	Ponatahi (70)
64/178	Jun	7d	20h 41m	
			MM4	Burkes Pass (117)
64/181	Jun	9d	07h 31m	
			MM4	Westport (79)
			MM3	Tadmor (75)
64/190	Jun	15d	10h 58m	
			MM3-4	Manapouri (139)
			MM3	Kingston (132)
64/192	Jun	16d	18h 43m	
			MM4	Wairoa (53)
64/194	Jun	17d	07h 07m	
			MM4	Taupo (41)
64/198	Jun	24d	11h 37m	
		"slight"		Manapouri (139)
64/199a	Jun	26d	11h 02m	
	"very severe"			Oponae (35)
64/203	Jun	29d	18h 27m	
	"moderate"			Oponae (35

64/207	Jul	3d	18h 25m	
			MM4	Wairakei (41)
64/213	Jul	10d	12h 34m	
			MM4	Westport (79)
64/218	Jul	16d	02h 52m	
			MM4	Eketahuna (2 reports) (66)
64/218a	Jul	16d	11h 37m	
			MM4	Ngakuru (33)
64/219	Jul	16d	13h 26m	
			MM6	Whakamaru (32); Ngakuru (33).
64/219a	Jul	16d	13h 40m	
			MM4	Ngakuru (33)
64/219b	Jul	16d	16h 27m	
			MM5	Ngakuru (33)
64/219c	Jul	16d	18h 55m	
			MM4	Ngakuru (33)
64/220	Jul	17d	15h 06m	
			MM3	Waipawa (60)
64/221	Jul	18d	00h 30m	
			MM4	Eastbourne (68)
64/222	Jul	18d	04h 43m	
			MM5	Ngakuru (33)
64/226	Jul	21d	09h 12m	
			MM4	Kelburn, Naenae, Wainuiomata (2 reports), York Bay (68); Wairongomai (69).
			MM3	Lower Hutt (68)
		"strong"		Newtown (68)
64/227	Jul	21d	10h 33m	
			MM3	Cape Runaway (29)
64/230	Jul	22d	22h 18m	
			MM4	Wairakei (2 reports) (41)
			MM3	Wairakei (41)
64/232	Jul	25d	08h 59m	
			MM4	Featherston, Wairongomai (69); Masterton, Ponatahi (70).
64/234	Jul	29d	14h 25m	
			MM4	Kelburn (68); Collingwood (72); Port Underwood (78); Blenheim (83).
64/237	Jul	30d	05h 57m	
			MM4	Hoeotainui (20); Tairua, Waihi (21); Katikati (25); Tauranga (26).
			MM3	Coromandel (18); Maketu (26).
		"chimney down"		Te Aroha (25)
			?	Tokoroa (32)
64/237a	Jul	30d	19h 58m	
			?	Te Aroha, Waihou (25).
64/239	Aug	2d	18h 54m	
			MM3	Waipawa (60)

64/240	Aug	5d	11h 05m
		MM5	Paeroa, Waihi Beach (21).
		MM4	Hikutaia, Komata, Maratoto Valley, Paeroa, Waihi (21); Maungahaunui, Whatatutu (36); Tokomaru Bay, Tolaga Bay (37); Gisborne (45); Patoka (52); Waipawa (60); Eketahuna, Masterton (66).
		MM3	Whitianga (18); Kelburn (68).
		?	Nelson (76)
64/241	Aug	6d	08h 35m
		MM4	Wairakei (3 reports) (41)
		MM3	Otaranga (41)
64/248	Aug	12d	09h 27m
		MM4	Tarata (47); Purangi (48); Ohakune (49); Okeore, Okoia (57); Eketahuna (66).
		MM3	Stokes Valley (68)
		?	New Plymouth (47); Chateau (50); Hawera (52)
64/249	Aug	13d	09h 01m
		MM4	Ocean Bay (78)
64/252	Aug	15d	19h 37m
		MM4	Manapouri (139)
64/253	Aug	15d	22h 03m
		MM4	Tokomaru Bay (37)
64/254	Aug	16d	00h 42m
		MM3	Minaret Stn. (114); Manapouri (139).
		?	Monowai (139)
64/256	Aug "terrific jolt"	16d	10h 59m
			Opunake (46)
64/258	Aug "a jolt"	16d	19h 12m
			Opunake (46)
64/260	Aug	17d	09h 01m
		?	Opunake (46)
64/260a	Aug	17d	20h 10m
		?	Opunake (46)
64/261	Aug	18d	06h 38m
		?	Opunake (46)
64/267	Aug	22d	06h 20m
		MM3	Okoia (57)
64/271	Aug	24d	13h 07m
		MM4	Whatatutu (36); Gisborne (2 reports) (45); Wairoa (53).
64/274	Aug	24d	13h 12m
		MM4	Gisborne (45)
		MM3	Gisborne (45)
		?	Whatatutu (36)
64/282	Aug	25d	23h 52m
		MM4	Okoia (57); Hunterville, Table Flat (58); Bunnythorpe (62); Dannevirke (63); Eketahuna (66); Ponatahi, Te Kopi (70).
64/286	Aug	29d	07h 28m
		MM4	Dannevirke, Te Uri (63).

64/287	Aug	29d	10h 52m
		MM4	Gisborne (45)
64/296a	Sep	2d	10h 55m 13s
		MM3	Otaranga, Wairakei (41)
64/296b	Sep	2d	10h 55m 27s
		MM3	Wairakei (41)
64/296c	Sep	2d	10h 56m 05s
		MM4	Wairakei (41)
		MM3	Otaranga (41)
64/296d	Sep	2d	10h 56m 53s
		MM3	Otaranga, Wairakei (41)
64/297	Sep	2d	10h 57m
		MM4	Wairakei (41)
		MM3	Otaranga (41)
64/299	Sep	4d	07h 37m
		MM3	Earnslaw Stn. (121)
64/302	Sep	6d	23h 42m
		MM4	Manaroa (78)
		MM2	Wellington (2 reports) (68)
64/303	Sep	8d	23h 32m
		MM4	Ohakune (57)
64/307	Sep	12d	22h 07m
		MM3	Awarua (154); Quarry Hills (156)
		MM2	Invercargill (149); Halfmoon Bay (158); Campbell Is. (-).
64/309	Sep	16d	10h 20m
		MM4	Manaroa, Ocean Bay (78).
64/311	Sep	17d	06h 29m
		MM4	Okoia (57)
64/312a	Sep	18d	20h 39m
		MM4	Otangaroa (6)
64/315	Sep	21d	14h 12m
		?	Kakahi (39)
64/316	Sep	22d	00h 13m
		MM4	Lower Hutt, Paekakariki Hill (68).
		?	Karehana Bay, Plimmerton, Stokes Valley (68).
64/316a	Sep	22d	04h 42m
		MM3	Reporoa (33).
64/317a	Sep	23d	18h 15m
		?	Taupo (41)
64/317b	Sep	23d	18h 22m
		?	Taupo (41)
64/318	Sep	23d	18h 23m
		MM4	Wairakei (4 reports) (41)
		MM3	Taupo (2 reports) (41)
64/319	Sep	24d	15h 14m
		MM3	Taupo (41)

64/320	Sep	25d	11h 03m
		MM5	Westport (2 reports) (79)
		MM4	Mangles Valley (80); Maimai (86); Kumara
64/324	Oct	4d	16h 43m
		MM3	Cape Runaway (28)
64/326	Oct	6d	01h 34m
		MM3	Halfmoon Bay (158)
64/327	Oct	6d	21h 39m
		MM4	Tarakohe (72)
64/339	Oct	14d	16h 59m
		MM4	Westport (79)
		MM1	Westport (79)
64/341	Oct	15d	05h 43m
		MM3	Taupo, Wairakei (41)
64/347	Oct	20d	07h 43m
		MM3	Manapouri (139)
64/350	Oct	21d	05h 02m
		MM4	Taupo (41)
64/352	Oct	22d	08h 04m
		MM4	Taupo (3 reports) (41)
64/353	Oct	23d	17h 25m
		MM4	Collingwood (72)
64/354	Oct	24d	10h 58m
		MM4	Acacia Bay, Taupo (41).
64/360	Oct	27d	10h 59m
		MM4	Taupo (41)
64/361	Oct	30d	04h 54m
		MM4	Blackball (85)
64/372	Nov	5d	12h 16m
		MM4	Opotiki (35); Gisborne (45).
64/376	Nov	8d	02h 44m
		MM4	Gummies Bush, Riverton (149); Awarua,
			Hills, Waimahaka (154); Halfmoon Bay
		MM3-4	Invercargill (149)
		MM2	Manapouri (139); Centre Is. (148).
64/378	Nov	11d	20h 21m
		MM4	Kohurau (51)
64/379	Nov	12d	00h 28m
		MM4	Maketu (26)
64/381	Nov	13d	10h 34m
		MM4	Turangi (40)
64/387	Nov	20d	07h 02m
		MM4	Kohurau (51); Napier, Patoka (2 reports)
			(52); Apiti (58); Waipawa (60).
		MM3	Tutira (52)
64/390	Nov	20d	21h 20m
		MM3	Kohurau (51)

64/395	Nov	23d	06h 33m
		MM3	Dannevirke (63)
64/398	Nov	28d	20h 19m
		MM4	Wairakei (2 reports) (41)
64/399a	Dec	3d	23h 20m
		MM4	Wairakei (2 reports) (41)
64/399b	Dec	3d	23h 28m
		MM3	Wairakei (41)
64/400a	Dec	4d	11h 50m
		MM3	Wairakei (41)
64/400b	Dec	4d	11h 55m
		MM3	Wairakei (41)
64/403	Dec	6d	03h 36m
		MM3	Lake Okataina (33)
64/404	Dec	6d	07h 25m
		MM4	Waitotara, Wanganui (56); Okoia (57).
64/406	Dec	6d	15h 06m
		MM4	Waitotara, Wanganui (56); Ohakune, Okoia (57).
64/407	Dec	6d	15d 15m
		MM3	Wanganui (56)
64/408	Dec	7d	08h 24m
		MM4	Taupo (41)
64/409	Dec	7d	14h 23m
		MM4	Taupo, Wairakei (41)
64/410	Dec	7d	19h 02m
		MM4	Taupo (2 reports), Wairakei (3 reports) (41).
64/413	Dec	8d	17h 22m
		MM4	Wairakei (41)
64/423	Dec	10d	15h 25m
		MM4	Ngakuru (33)
64/426	Dec	11d	18h 46m
		MM4	Whakamaru (32)
64/427	Dec	11d	19h 09m
		MM4	Whakamaru (32)
64/428	Dec	11d	21h 04m
		MM2	Whakamaru (32)
64/433	Dec	12d	14h 04m
		MM4	Tokaanu (40)
64/445	Dec	13d	13h 47m
		MM4	South Acacia Bay (41)
64/447	Dec	13d	18h 31m
		MM4	Taupo (41)
64/449	Dec	13d	21h 23m
		MM4	Wairakei (41)

64/450 Dec 13d 22h 36m
MM5 Wairakei (2 reports) (41)

64/454 Dec 14d 08h 05m
MM4 Taupo (41)

64/455 Dec 14d 08h 28m
MM4 Taupo (41)

64/456 Dec 14d 14h 26m
MM4 Taupo (41)

64/458 Dec 14d 17h 13m
MM4 Taupo (41)

64/459 Dec 14d 18h 05m
MM4 Taupo (41)

64/460 Dec 14d 20h 43m
MM4 Wairakei (41)

64/461 Dec 14d 23h 19m
MM4 Wairakei (41)

64/462 Dec 14d 23h 22m
MM4-5 Wairakei (41)

64/463 Dec 15d 00h 12m
MM4 Wairakei (41)

64/472 Dec 15d 14h 00m
MM4 Taupo (41)

64/479 Dec 15d 20h 00m
MM4 Taupo (2 reports), Wairakei (2 reports) (
? Owhango (39)

64/483 Dec 16d 15h 20m
MM4 Taupo (41)

64/488 Dec 17d 04h 20m
MM4-5 Wairakei (41)

64/494 Dec 18d 23h 19m
MM4 Wairakei (41)

64/496 Dec 19d 06h 18m
MM3 Whenuapai (16)
Note: Identification of felt report with earthquake is doubtful in the absence of reports.

64/499 Dec 20d 17h 49m
MM4 Wairakei (41)

64/500 Dec 20d 21h 10m
MM4 Taupo, Wairakei (41).

64/501 Dec 20d 21h 18m
MM4 Taupo, Wairakei (2 reports) (41).

64/502 Dec 20d 22h 09m
MM3 Wairakei (41)

64/504 Dec 20d 23h 49m
MM4 Taupo (41)

64/504a Dec 20d 23h 52m
MM4 Wairakei (41)

64/505 Dec 21d 00h 38m
MM4 Taupo, Wairakei (2 reports) (41).

64/506 Dec 21d 01h 50m
MM5 Wairakei (41)
MM4 Wairakei (41)

64/508 Dec 21d 09h 07m
MM4 Taupo (41)

64/509 Dec 21d 09h 18m
MM4 Taupo (41)

64/510 Dec 21d 12h 11m
MM4 Taupo (41)

64/511 Dec 21d 14h 55m
MM4 Taupo (41)

64/512 Dec 21d 17h 00m
MM4 Ongarue (39)

64/519 Dec 22d 20h 15m
MM4 Taupo (41)

64/520 Dec 22d 20h 20m
MM2 Putaruru (32)
"sharp" Owhango (39)

64/521 Dec 22d 21h 45m
MM4 Wairakei (41)

64/530 Dec 25d 20h 09m
"sharp" Owhango (39)

64/531 Dec 25d 20h 10m
"sharp" Owhango (39)

64/534 Dec 27d 11h 49m
MM4 Okoia, Wanganui (57).

64/541 Dec 28d 10h 03m
MM4 Tokaanu, Turangi (40).
"sharp" Owhango (39)
"slight" Hinemaimai Dam (41)

64/548 Dec 30d 04h 44m
MM4 Kohurau (51); Patoka, Napier (2 reports) (52).

64/549 Dec 30d 10h 30m
"sharp" Owhango (39)

64/550 Dec 30d 13h 09m
MM4 Gisborne (45)

EARTHQUAKES FELT IN STANDARD LOCALITIES

Localities within which earthquakes were felt in 1964 are listed in alphabetical order, preceded by its number on the reference map. The figure following the name of the locality is the number of the epicentre, followed by the maximum intensity (in brackets) reported within the district covered by the locality name. The instrumental magnitude may be found from the epicentre list, and the places that actually reported the shock from the table of "Places Reporting Felt Earthquakes".

133	Alexandra	72 (5)
122	Arrowtown	72 (5)
16	Auckland	496 (3, Doubtful report)
83	Awatere	234 (4)
77	Blenheim	8 (?), 133 (4),
154	Bluff	72 (4), 307 (3), 376 (4)
104	Bruce Bay	72 (5)
84	Cape Campbell	95 (?)
46	Cape Egmont	256 (?), 258 (?), 260 (?), 260a(?), 261 (?)
67	Castlepoint	19 (3)
151	Clinton	72 (4)
110	Christchurch	133 (3)
63	Dannevirke	19 (4), 282 (4)
129	Doubtful Sound	109 (4)
145	Dunedin	72 (3)
117	Fairlie	72 (4), 178 (4)
69	Featherston	226 (4), 232 (4)
45	Gisborne	274 (4), 287 (4), 372 (4), 550 (4)
81	Glenhope	133 (4)
121	Glenorchy	72 (6), 299 (3)
150	Gore	72 (5)
85	Greymouth	85 (4)
103	Haast	72 (5)
98	Hari Hari	72 (4)
60	Hastings	42 (3), 52 (3), 220 (3), 239 (3), 240 (4), 387 (4)
55	Hawera	248 (?)

91	Hokitika	72 (4)
149	Invercargill	72 (4), 307 (2), 376 (4)
6	Kaikohe	34a(4), 105 (6), 106a(4), 108a(4), 108b(4), 120a(5)
5	Kaitaia	105 (4), 106a(4)
51	Kaweka	158 (3), 378 (4), 387 (4), 390 (3), 548 (4)
132	Kingston	72 (5)
125	Kurow	72 (4)
115	Lake Ohau	72 (5)
143	Lawrence	72 (4)
114	Makaroha	72 (5)
70	Martinborough	19 (4), 107 (4), 127 (4), 137 (4), 158 (4), 169 (3), 232 (4), 282 (4)
66	Masterton	19 (4), 107 (4), 117 (4), 240 (4), 248 (4), 282 (4)
25	Matamata	237 (4), 237a(?)
20	Mercer	237 (4)
120	Milford Sound	72 (6)
38	Mokau	88 (4)
139	Monowai	72 (5), 109 (4), 190 (3-4), 198 (?), 252 (4), 154 (3), 347 (3), 376 (2)
140	Mossburn	72 (5), 109 (4)
36	Motu	107 (4), 110 (4), 240 (4), 271 (4)
75	Motueka	133 (4)
105	Mount Cook	72 (5)
80	Murchison	6 (4), 148 (4), 320 (4)
52	Napier	42 (4), 43(3), 52 (?), 107 (2), 158 (2), 387 (4), 548 (4)
76	Nelson	133 (?), 240 (?)
136	Oamaru	72 (4), 141 (4)
49	Ohakune	38 (4)
35	Opotiki	372 (4)
144	Outram	72 (4)
62	Palmerston North	282 (4)
78	Picton	133 (4), 234 (4)
134	Poolburn	72 (4)

146	Puysegur Point	72 (3)
135	Ranfurly	72 (4)
86	Reefton	320 (4)
33	Rotorua	65 (3), 222 (5)
142	Roxburgh	72 (5)
124	St. Bathans	72 (4)
159	Stewart Is.	307 (2), 326 (3), 376 (4)
58	Taihape	38 (4), 282 (4)
72	Takaka	50 (4), 77 (4), 97 (4), 133 (4), 234 (4), 353 (4)
156	Takakopa	307 (4)
39	Taumarunui	315 (?), 479 (?), 512 (4), 520 (?), 530 (?), 531 (?), 541 (?) 549 (?)
41	Taupo	34b(4), 34c(4), 67 (3), 68 (4), 70 (4), 70a(4), 70b(4), 70c(4), 131a(4), 155a(5), 155b(5), 155c(4), 194 (4), 207 (4), 230 (4), 237 (4), 241 (4), 296a(3), 296b(3), 296c(4), 296d(3), 297 (4), 341 (3), 350 (4), 352 (4), 354 (4), 360 (4), 398 (4), 399a(4), 399b(3), 400a(3), 400b(3), 408 (4), 409 (4), 410 (4), 413 (4), 445 (4), 447 (4), 449 (4), 450 (5), 454 (4), 455 (4), 456 (4), 458 (4), 459 (4), 460 (4), 461 (4), 462 (4-5), 463 (4), 472 (4), 479 (4), 483 (4), 488 (4-5), 494 (4), 499 (4), 500 (4), 501 (4), 502 (3), 504 (4), 504a(4), 505 (4), 506 (5), 508 (4), 509 (4), 510 (4), 511 (4), 519 (4), 521 (4), 541 (?)
26	Tauranga	6a(3), 6b(4), 7 (3), 13 (4), 21 (4), 22 (4), 23 (2), 126 (3), 379 (4)
130	Te Anau	72 (5)
106	Tekapo	72 (2)
21	Thames	237 (4), 240 (5)
40	Tokaanu	35 (4), 131b(3), 132 (4), 135 (4), 381 (4), 433 (2), 541 (4)
11	Tokoroa	219 (6), 237 (?), 426 (4), 427 (4), 428 (2), 520 (2)
37	Tolaga Bay	158 (4), 240 (4), 253 (4)
43	Tuai	51 (4)
148	Tuatapere	72 (5), 376 (2)
153	Waihola	72 (3), 124 (4)

141	Waikaia	72 (4)
82	Wairau	133 (4)
53	Wairoa	43 (4), 51 (4), 52 (4), 115 (4), 158 (4), 192 (4), 271 (4)
123	Wanaka	72 (5)
57	Wanganui	8 (?), 36 (3), 37 (4), 46 (4), 77 (4), 85 (4), 88 (4), 248 (4), 267 (3), 282 (4), 303 (4), 311 (4), 404 (4), 406 (4), 534 (4)
56	Waverley	88 (4), 404 (4), 406 (4), 407 (3)
68	Wellington	8 (3), 10 (3), 26 (3), 46 (4), 52 (2), 58 (2), 79 (4), 88 (4), 97a(?), 107 (3), 121 (3), 129 (3), 133 (3), 158 (4), 169 (4), 221 (4), 226 (4), 234 (4), 240 (3), 248 (3), 302 (2), 316 (4)
79	Westport	4a(5), 66 (4), 102 (4), 213 (4), 320 (5), 339 (4)
44	Whakapunaki	115 (4)
48	Whangamomona	248 (4)

UNCONFIRMED REPORTS

The following shocks reported to have been felt cannot be confirmed either by an instrumental record or by an independent report.

Jan	4d	09h15m	Shelly Beach (15) "three distinct shocks"
	9	16 20	Totara North (6) MM4
	9	18 44	Maketu (26) MM3
	16	02 48	Dannevirke (63) MM4
Feb	22	03 00	Ardkeen (43) MM4
Mar	18	09 15	Mangles Valley (80) MM3
	22	18 30	Totara North (6) MM3
	22	20 30	Totara North (6) MM4
	22	23 ?	Ngakuru (33) MM4
	24	09 24	Patoka (52) MM3
	28	04 00	Ngakuru (33) MM4
	28	11 55	Dawson's Falls (47) MM3
Apr	12	18 33	Walton (25) MM4
	15	11 40	Totara North (6) MM5
	15	14 30±	Opotiki (35) MM4
	26	05 08	Totara North (6) MM4
	28	09 25	Ngakuru (33) MM4
May	3	13 50	Westport (79) "slight"
Jun	22	12 35	Manapouri (139) "slight"
	26	07 30	Westport (79) MM4
	26	15 15	Westport (79) MM4
Jul	16	11 20	Ngakuru (33) "imperceptible" (sic)
	16	11 33	Ngakuru (33) MM4
	16	21 02	Ngakuru (33) MM5
	16	21 00 to	Ngakuru (33) "Groups of gentle move-

Jul	17d	18h05m	Ngakuru (33)	ments. Only those at rest disturbed. Intermitten vibration of liquid in vessels." MM4
	18	07 24	Ngakuru (33)	MM4
	18	08 45	Ngakuru (33)	MM4
	18	11	Ngakuru (33)	MM4
	18	11+	Ngakuru (33)	"Movements perceptible only when at rest." MM4
	22	09 45	Ngakuru (33)	MM4
	25	10 40	Ngakuru (33)	MM4
	25	14 45	Ngakuru (33)	MM4
Aug	10	06 27	Patoka (52)	?
	17	12	Opunake (46)	?
	17	20 10	Opunake (46)	?
Oct	31	00 to 08	Guthrie-Ngakuru (33)	MM4
Nov	1	05 40	Guthrie-Ngakuru (33)	"Also three or four light tremors during the afternoon." MM4
Nov	2	18±	Guthrie-Ngakuru (33)	?
	3	08 00	Guthrie-Ngakuru (33)	MM4
	4	02 45	Guthrie-Ngakuru (33)	MM4
	5	01 05	Maketu (26)	MM4
	5	04 20	Maketu (26)	MM2
	14	09 20	Wairere (66)	?
	21	03 00	Guthrie-Ngakuru (33)	MM4
	21	04 55	Kotemaori (53)	MM4
	22	10 35	Ngakuru (33)	MM3
Dec	1	11 20	Lower Hutt (68)	"House strained during this time - earth movement or movements."
	5 to 8	12 to 23	Guthrie-Ngakuru (33)	MM3
	6	04	Lake Okataina (33)	MM4
	6	06 40	Uruti (38)	MM4
	7	10 50	Taupo (41)	MM4
	9	03 22	Ngakuru (33)	MM4
	9	10 07	Ngakuru (33)	"slight tremors"
10 to 14			Huinga Farm, Owhango (39)	MM3
	10	12 05	Ngakuru (33)	MM4
	13	13 30	South Acacia Bay (41)	MM4
	13	14 28	Taupo (41)	MM4
	13	17	Taupo (41)	MM5
	14	06 22	Taupo (41)	MM4
	14	08 12	Taupo (41)	MM4
	14	13 28	South Acacia Bay (41)	MM4
	15	01 48	Wairakei (41)	MM4
	15	04 35	Wairakei (41)	?
	15	08 30	Taupo (41)	"Earth movements felt"
	16	07 30 to 10 00	Guthrie-Ngakuru (33)	MM4
	16	13 10	Taupo (41)	"short, sharp"
	19	22 52	Huinga Farm, Owhango (39)	MM4
	20	17 30	Taupo (41)	MM4
	20	17 58	Taupo (41) (Possibly refers to 64/499.)	MM4
	20	23 54	Wairakei (41)	MM3
	21	01 06	Wairakei (41)	MM4
	21	14 10	Ongarue (39)	MM5
	22	23 50	Wairakei (41)	MM5
	22	23 53	Wairakei (41)	MM4
	25	13 27	Patoka (51)	

FELT EARTHQUAKES REPORTED FROM OUTSIDE NEW ZEALAND

The Observatory sometimes receives reports of felt earthquakes from islands in the south west Pacific and other places beyond the limits of its systematic reporting network. The following reports were received during 1964.

Feb	22d	20h45m	Raoul Is. MM4
Apr	15	05 00	Pitcairn Is. MM4
Jun	4	09 14	Nandi Area and Yasawa Group, Fiji ?
	9	10 53	Niuafo'ou MM4
Jul	9	11 23	Tonga "light tremor"
Nov	11	06 44	Raoul Is. ?
	13	22 00	Raoul Is. MM7
Dec	13	09 12	Raoul Is. MM2
	17	09 13	Raoul Is. MM3
	17	10 30	Nukualofa, Tonga MM1
	22	06 07	Keppel Is. "slight"
	24	11 44	Raoul Is. MM3
	31	06 07	Raoul Is. MM3

STATION READINGS

OF DISTANT EARTHQUAKES

Readings of earthquakes at distances beyond about 10 degrees from W[ellington] made at stations within New Zealand are presented in a unified li[st] together with U.S. Coast and Geodetic Survey origin data, and magnitudes co[m]puted from the New Zealand data.

The unified list is arranged as follows. For each earthquake, the fir[st] line gives the origin time, epicentre, focal depth and magnitude assigned [by] the USCGS, and the distance of the epicentre from Wellington, in degrees. [If] no USCGS data are available, this line is omitted. Next, the arrival ti[mes] of phases at the individual stations are listed. With these are given dir[ec]tions of first motion, the amplitudes and periods of the associated gro[und] motions, and for Wellington and Roxburgh only, the magnitudes.

Periods are given in seconds, and amplitudes in microns. These are wo[rked] out by the computer, using a stored polynomial approximation to the respo[nse] curve of the seismometer concerned. The magnitudes are the 'unified magni[-]tude' $m = \log_{10} A/T + Q$, defined by Gutenberg and Richter (Annali di Geofisi[ca] 9: 1-15, 1956). No station correction is applied. Only the vertical co[m]ponent 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 determinati[ons] for all the components whose amplitude and period data are given on the s[ame] line.

The Scott Base section of the report is also prepared by computer, [but] in addition to the data given for New Zealand stations lists values of lo[g] A/T for the short period vertical component, and the corresponding magnitud[e]. This format will be used for all stations in 1965.

Data for the remaining stations are given in the same form as in pr[e]vious years.

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
									WEL 53	
JAN 01	12 21 55.4	6.8S 129.8E	96KM	5.7						
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
	KRP EP	Z 12 30 56								
	E	Z 31 20								
	CNZ EP	Z 12 30 59								
	E	Z 31 24								
	WEL ELR	Z 12 47 12								
	ROX ELQ	E 12 50 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
									WEL 79	
JAN 01	14 18 53.9	4.3S 105.9W	33KM	4.6						
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
	WEL ELR	Z 14 55 30								
	ROX ELQ	E 14 58 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
									WEL 81	
JAN 01	15 49 47.9	55.9S 27.1W	33KM	5.4						
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
	KRP EP	Z 16 02 17								
	CNZ EP	Z 16 02 20								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
									WEL 89	
JAN 01	17 26 43.5	45.4N 151.9E	45KM	5.6						
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
	WEL EP	Z 17 39 32		1	12					5.7
	SKS	Z 50 08		1	16					
	PS	Z 51 20		2	16					
	ESS	Z 56 00								
	LR	Z 18 08 00		11	18			4 24		
	ROX SKS	NE 17 50 18		›		1	12	1 12		
	S	NE 54				5	12	4 12		6.6
	LQ	NE 18 13 00				5	20	6 20		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
									WEL 49	
JAN 01	20 02 32.5	3.2S 139.7E	33KM	6.3						
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
	KRP EP	Z 20 11 07								
	WEL LR	Z 20 27 24								
JAN 02	WEL ELR	Z 18 12 30								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
									WEL 36	
JAN 02	19 15 23.9	8.4S 157.1E	33KM	5.5						
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
	CNZ EP	Z 19 22 19								
	WEL S	Z 19 30 56		2	9					
	ELR	Z 33 30		2	24					
	ROX ES	NE 19 31 36						3 16		5.9
	ELQ	NE 35 30				5	17	7 18		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
									WEL 36	
JAN 03	00 59 33.8	8.5S 157.4E	61KM	4.8						
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
	WEL ELR	Z 01 20 54								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
									WEL 22	
JAN 03	21 24 56.3	20.4S 178.2W	520KM	5.3						
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
	KRP P	Z 21 28 40.0								
	CNZ P	Z 21 28 49.0								
	WEL P	ZNE 21 29 08.5								
	S	ZNE 32 32								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
JAN 03	21 48 05.6	53.0S 21.2E	33KM						
		H M S	DIR	AZ	TZ	AN	TN	AE TE	
	WEL ELR	Z 22 33 30							
JAN 04	WEL ELR	Z 03 40 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
JAN 04	03 41 22.6	3.4S 149.2E	33KM	4.3					
		H M S	DIR	AZ	TZ	AN	TN	AE TE	
	WEL ELR	ZNE 04 02 36							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
JAN 04	17 40 23.3	5.5S 150.0E	117KM	5.2					
		H M S	DIR	AZ	TZ	AN	TN	AE TE	
	KRP P	Z 17 47 46.5							
	CNZ EP	Z 17 47 55							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
JAN 04	21 12 09.3	52.9S 20.9E	33KM						
		H M S	DIR	AZ	TZ	AN	TN	AE TE	
	WEL ELR	Z 21 52 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
JAN 05	10 11 53.0	26.6S 175.7W	31KM	5.1					
		H M S	DIR	AZ	TZ	AN	TN	AE TE	
	KRP EP	Z 10 15 10							
	E	Z 28							
	CNZ EP	Z 10 15 33							
	ES	Z 17 58							
	WEL EP	ZE 10 15 55							
	E	ZNE 16 08							
	S	ZNE 18 32							
	ELR	ZNE 20 42		3	16	3	16	6 14	
	ROX ELQ	NE 10 23 30							
	ELR	Z 25 30							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
JAN 05	16 25 52.6	61.4S 154.9E	33KM						
		H M S	DIR	AZ	TZ	AN	TN	AE TE	
	MNW P	Z 16 29 55							
	E	Z 30 00							
	ROX P	ZNE 16 30 08		5	10	7	12	3 16	
	ES	E 33 30						11 16	
	ELR	Z 34 30		22	20				
	WEL P	Z 16 31 03		3	22				
	ES	ZNE 35 24		3	32	4	28	43 52	
	ELR	ZNE 36 54		33	32	14	16	39 16	
	CNZ EP	Z 16 31 11							
	KRP EP	Z 16 31 30							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
JAN 05	23 46 10.7	52.3S 28.6E	33KM						
		H M S	DIR	AZ	TZ	AN	TN	AE TE	
	MNW P	Z 23 57 56.8							
	ROX P	Z 23 58 01		2	8				
	ES	NE 24 07 50				4	20	3 16	
	ESS	N 12 55				7	18		
	ELQ	NE 19 30				11	40	10 [illegible]	
	WEL IP	Z 23 58 28	U	3	12				
	PP	Z 24 01 40		5	7				
	S	ZNE 08 43		2	28	6	5	5 16	
	PS	Z 09 36		7	28				
	SS	Z 13 48		11	24			4 24	
	LQ	E 21 48							
	LR	Z 24 30		45	50				
	CNZ P	Z 23 58 40.5							

	KRP EP	Z 23 58 45									
	GNZ P	Z 23 58 47.5									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	
JAN 06	05 54 42.7	27.2N 127.3E	110KM	5.7							81
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
	GNZ EP	Z 06 06 44									
	WEL ELR	Z 06 33 06									
	MNW P	Z 06 06 48									
	ROX P	Z 06 06 51									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	
JAN 06	23 45 23.4	50.9N 157.3E	33KM	5.6							93
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
	KRP P	Z 23 58 20									
	I	Z 22	D								
	WEL EP	Z 23 58 28			1	16					5.9
	ESKS	Z 24 09 00									
	PS	Z 10 44			1	32					
	LR	Z 28 30			12	34					
	ROX ELQ	NE 00 28 00					3	20	2	20	
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	
JAN 07	02 08 19.1	56.8S 147.7E	33KM								23
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
	WEL E	Z 02 18 12									
	ELR	Z 19 42									
	ROX ELQ	NE 02 16 30									
JAN 07	KRP EP	Z 02 44 44									
	E	Z 45 24									
	GNZ EP	Z 02 44 52									
	E	Z 45 07									
	E	Z 35									
	S	Z 46 17									
	CNZ E	Z 02 45 16									
	E	Z 32									
	S	Z 46 52									
	WEL ELR	Z 02 49 18									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	
JAN 07	05 18 24.5	58.8S 149.4E	33KM								24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
	ROX EP	N 05 22 42									
	ELQ	NE 26 00					6	20	8	30	
	WEL P	Z 05 23 33			1	20					5.0
	LR	ZNE 29 28			12	20					
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	
JAN 07	10 40 42.9	3.0S 139.0E	47KM	5.0							50
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
	KRP EP	Z 10 49 22									
	E	Z 36									
	CNZ E(P)	Z 10 49 35									
	GNZ E(P)	Z 10 49 42									
	E	Z 50									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	
JAN 07	12 32 54.5	56.8S 26.1W	33KM	5.6							81
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
	KRP EP	Z 12 45 22									
	WEL ELR	Z 13 18 00									
	ROX ELR	ZNE 13 18 00									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 07	23 12 33.4	18.3S 173.4W	33KM	4.7					WEL 7
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ELR	Z 23 24 24							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 08	11 58 42.5	18.8S 173.8W	33KM	4.8					WEL 7
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 12 03 23							
	WEL ELR	Z 12 10 30							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 08	22 30 49.7	3.7S 119.4E	90KM	5.2					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	ROX EP	Z 22 40 50		1	12				
	WEL EP	Z 22 41 02		4	18				
	ELR	Z 56 30							
	GNZ P	Z 22 41 12							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 09	18 31 52.4	45.5N 150.9E	40KM	5.6					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 18 44 31							
	WEL P	Z 18 44 52		3	6				
	SKS	ZNE 55 13		2	15	3	15	4 6	
	S	NE 30							
	PS	ZNE 56 31							
	SS	ZNE 19 01 24		4	28	4	30		
	LR	ZNE 13 48		10	22	4	20	12 22	
						7	9		
	ROX S	NE 18 56 06				3	22	2 20	
	ESS	NE 19 02 30				7	22	10 22	
	ELQ	NE 17 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 09	21 23 08.1	20.0S 178.3W	649KM	4.0					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z 21 26 44							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 10	04 50 53.4	42.0N 142.6E	33KM	5.5					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL EP	Z 05 03 56		2	6				
	ESKS	Z 14 08		1	32				
	PS	Z 15 24		2	32				
	LR	Z 31 48							
	ROX LR	ZNE 05 34 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 10	16 52 36.2	15.4S 175.0W	33KM	5.0					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL LR	Z 17 05 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 10	16 57 26.5	45.4N 150.0E	50KM	5.4					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL LR	Z 17 40 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	06 39 55.4	15.1S 172.9W	33KM	4.2					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ELR	Z 06 54 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	09 24 15.6	14.1S 169.6E	33KM	4.9					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL LR	Z 09 37 30							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	22 02 02.8	8.6S 123.4E	70KM	5.5					WEL 56
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ P	Z 22 11 33							
	WEL ELR	Z 22 28 00							
JAN 12	WEL ELR	Z 00 08 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 12	06 00 13.2	53.2N 166.3W	33KM	5.5					WEL 96
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL EPS	Z 06 26 08		1	20				
	LR	ZNE 44 00		4	28			2 32	
	ROX ELQ	NE 06 48 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 12	11 13 19.6	5.4S 146.8E	229KM	5.6					WEL 44
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z 11 20 47							
	CNZ P	Z 11 20 55.9							
	*PP	Z 21 40							6.0
	WEL P	Z 11 21 02		3	4				
	ELR	Z 36 30		2	20				
	GNZ P	Z 11 21 03.7							
	MNW P	Z 11 21 07.1							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 12	12 36 18.7	56.0S 27.6W	33KM	5.5					WEL 81
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ P	Z 12 48 41							
JAN 12	WEL ELR	Z 14 58 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 12	14 28 20.0	4.4S 137.3E	22KM	5.4					WEL 50
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ELR	Z 14 58 00							
JAN 13	GNZ EP	Z 05 04 44							
	S	Z 05 59							
	TUA E(S)	Z 05 06 03							
	CNZ EP	Z 05 04 51							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 13	13 32 59.2	19.8S 175.6W	190KM	4.1					WEL 23
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ EP	Z 13 37 28							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 13	18 49 09.8	11.6S 166.2E	59KM						WEL 31
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ P	Z 18 55 03.7							
	WEL EP	Z 18 55 18							
	ELR	ZNE 19 04 00		3	20	2	20	2 20	
	ROX ELR	NE 19 03 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 14	01 11 12.6	52.9N 159.6E	50KM	4.9					WEL 95
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ELR	Z 01 55 30							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 14	04 17 50.5	28.8S 176.2W	89KM	4.7					WEL 14
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL EP	Z 04 20 29							
	S	ZNE 23 48							
	LQ	NE 24 54				5	20	7 26	

		LR	Z		25 48			6 20						
	GNZ	EP	Z	04	20 44									
		ES	Z		22 30									
	CNZ	EP	Z	04	20 46									
		ES	Z		23 06									
	ROX	ELR	ZNE	04	27 42									

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 14	10	20	10.3	28.1S	178.1W	195KM	4.5	

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	S	Z	10	24 23								
	CNZ	EP	Z	10	22 03								
		ES	Z		24 58								
	WEL	S	ZNE	10	25 41								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 14	15	38	13.8	5.2S	150.8E	169KM	5.6	

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	15	45 32								
	CNZ	P	Z	15	45 38.9								
		PCS	Z		51 14								
	GNZ	P	Z	15	45 44.5								
		E(S)	Z		52 48								
	WEL	IP	ZNE	15	45 48	D	7	6					
		PP	Z		47 31		4	12					
		S	ZNE		51 51		3	16	5	4	5	6	
		E	ZNE		56 00		4	24	2	25	4	20	
		LR	ZNE		58 00		14	44	7	24	8	24	
	MNW	P	Z	15	45 58								
	ROX	P	Z	15	46 00								
JAN 15	GNZ	P	Z	18	44 40								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 15	18	46	32.9	28.4S	178.4W	211KM	4.7	

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	18	48 12								
		E	Z		15								
		E	Z		50								
	ONE	P	E	18	48 48								
	GNZ	P	Z	18	48 49.5								
		E	Z		55								
		S	Z		50 45								
	WEL	EP	ZNE	18	49 34								
		S	ZNE		51 58								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 15	21	36	05.0	29.1N	140.8E	70KM	6.4	

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	21	47 37								
	GNZ	P	Z	21	47 45								
	WEL	P	ZNE	21	47 50		2	10					
		ES	Z		57 30		2	12					
		SS	Z	22	02 30		3	32					
		LR	Z		11 18		8	24					
	ROX	P	Z	21	47 57								4 15
		S	E		57 48								4 22
		ELQ	NE	22	09 00				3	20			4
	MNW	P	Z	21	47 59								
JAN 15	GNZ	EP	Z	23	29 44								
		I	Z		48.5								
		ES	Z		30 53								
	TUA	EP	Z	23	29 52								
		ES	Z		31 00								
	WEL	S	NE	23	32 09								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 17	02	54	26.8	21.6S	169.9E	33KM		20

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	P	Z	02	58 40.5								
	WEL	IP	Z	02	58 58	U	5	14					5.6
		S	ZNE	03	02 46		11	14	11	12	12	26	5.6
		LR	Z		04 38		17	21					
	ROX	EP	Z	02	59 47								
		S	NE	03	02 55				10	15	8	18	5.9
		LQ	NE		05 18				6	20	13	26	
		ELR	ZNE		07 30		14	18	13	19	13	18	

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 17	09	32	51.6	11.4S	162.4E	33KM	4.7	32

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	LR	Z	09	52 00								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 17	17	13	30.3	10.8S	167.7E	114KM		31

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ELR	Z	17	30 30								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 18	07	10	21.9	32.5S	103.7W	33KM	4.5	64

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ES	ZE	07	29 18		1	26					
		LR	ZNE		38 12		3	28			2	28	

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 18	12	04	40.0	23.1N	120.5E	33KM	5.9	81

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	IP	Z	12	16 52	U	2	16					6.0
		S	ZNE		27 12		2	32					
		PS	ZE		28 32		12	40			18	44	
		SS	Z		32 00		5	26					
		LQ	NE		40 00				16	44	21	44	
		LR	ZE		44 00		34	46			28	40	
	ROX	P	Z	12	16 54								
		S	NE		27 03				3	8	2	8	6.3
		PS	NE		32				5	30	5	18	
		ESS	NE		32 24				7	28	12	28	
	MNW	P	Z	12	16 55								
	GNZ	EP	Z	12	16 57								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 18	18	44	05.0	25.1S	176.9W	33KM	4.6	18

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP	Z	18	47 28								
		E	Z		49 44								
		E(S)	Z		50 02								
	WEL	ELR	Z	18	53 00								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 19	06	49	55.9	58.6S	25.1W	33KM		79

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	P	Z	07	02 08		1	18					5.4
		ELR	Z		27 00		1	20					

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG) WEL
JAN 19	07	00	03.3	9.2S	158.2E	32KM	5.7	35

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ELR	Z	07	17 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 19	09 34 11.1	4.2S 152.8E	33KM	5.1					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 09 41 54							
	E	Z 42 10							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 19	23 22 19.1	18.3S 176.9W	48KM	4.5					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 23 27 08							
	ES	Z 30 14							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 20	00 15 48.4	30.2S 177.8W	35KM	4.4					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 00 18 08							
	S	Z 19 38							
	WEL S	ZNE 00 20 53							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 20	17 08 37.4	20.7S 169.9E	141KM	6.1					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z 17 12 37.5							
	CNZ IP	Z 17 12 51.4	D						
	ES	Z 16 28							
	WEL IP	ZNE 17 13 10.2	DN	49	16	31	12		
	ES	ZNE 16 54.5		8	20	71	20	58	33
	LR	Z 21 00		58	16				
	ROX IP	ZN 17 13 46	D	9	8	6	13		
	*PP	ZN 14 26		21	5	20	14		
	S	NE 17 56				63	18	35	13
	MNW EP	Z 17 13 49							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 20	23 06 26.2	30.0S 177.9W	44KM	5.1					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 23 08 33							
	ES	Z 10 11							
	WEL S	ZNE 23 11 31							
	LR	Z 13 06		3	24				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 21	22 18 13.0	10.6N 125.3E	53KM	5.2					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ELR	Z 22 52 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 22	02 15 29.1	45.8S 75.2W	33KM	4.7					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ELR	Z 02 48 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 22	06 46 36.4	30.6S 178.0W	166KM	4.0					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 06 48 40							
	S	Z 50 03							
	WEL S	ZNE 06 51 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 22	09 12 03.4	4.2S 136.2E	71KM	5.1					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ELR	Z 09 36 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 22	15 58 46.5	22.4N 93.6E	88KM	6.1					WEL 98
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ELR	Z 16 46 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 22	23 59 43.6	13.7S 165.9E	33KM	6.0					WEL 29
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 00 05 14							
	CNZ P	Z 00 05 24.0							
	GNZ EP	Z 00 05 25							
	WEL P	ZNE 00 05 37		7	14				6.2
	S	ZNE 10 26		5	16	8	28	18 7	6.1
	LR	ZNE 13 48		19	21	155	16	59 21	
	ROX P	Z 00 06 08							
	S	NE 11 20				7	14	8 14	6.1
	ELQ	NE 13 36				16	23	23 23	
	ELR	ZNE 20 30		25	14	14	14	46 14	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	02 40 00.1	4.2S 154.2E	416KM	4.3					WEL 41
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ P	Z 02 47 02.0							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	03 52 29.3	5.9S 154.0E	85KM						WEL 40
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 03 59 54.5							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	10 33 24.5	23.5S 179.9E	550KM	4.3					WEL 18
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 10 37 34							
	S	Z 39 07							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	15 17 03.0	15.0S 173.1W	33KM	4.5					WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ P	Z 15 22 22							
	CNZ P	Z 15 22 37							
	WEL ELR	Z 15 31 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	17 17 45.5	38.7N 129.4E	542KM	5.3					WEL 90
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ P	Z 17 29 39.2	U						
	GNZ P	Z 17 29 42							
	WEL ES	Z 17 41 00		1	16				
	ROX P	Z 17 29 53.5							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	21 12 23.2	21.7S 176.2W	32KM	4.8					WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ ES	Z 21 19 17							
	E	Z 37							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	21 44 46.1	23.6S 179.9E	535KM	4.5					WEL 18
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ ES	Z 21 50 24							
JAN 24	WEL ELR	Z 22 17 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	22 44 00.6	7.1S 106.0E	94KM	5.5					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	CNZ P	Z 22 55 02.5							
	*PP	Z 21							
	WEL ELR	Z 23 19 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 25	07 04 32.8	22.6S 179.7W	600KM	5.1					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	CNZ EP	Z 07 07 59							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 25	12 09 08.8	28.3S 176.5W	17KM	4.5					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	GNZ EP	Z 12 11 52							
	ES	Z 13 50							
	ONE EP	E 12 11 56							
	WEL E	Z 12 17 16							
	ELR	Z 18 36							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 25	21 46 55.6	22.6S 179.9W	350KM	4.4					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	KRP P	Z 21 50 21							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 25	22 09 00.8	5.3S 153.2E	42KM	4.8					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	GNZ EP	Z 22 16 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 25	23 07 29.3	20.8S 178.8W	580KM	4.5					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	KRP P	Z 23 11 04.1							
	GNZ P	Z 23 11 06							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 26	09 09 33.9	16.3S 71.7W	116KM	6.1					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	WEL P	Z 09 22 46	D	2	20				
	PP	Z 25 36		2	24				
	SKS	Z 35 16		4	26				
	LR	Z 53 00		11	34				
	GNZ P	Z 09 22 47.2							
	E	Z 58							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 27	01 12 23.5	0.0N 17.9W	33KM	5.3					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	WEL ELR	Z 02 28 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 27	02 46 33.4	60.9S 155.2E	33KM						WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	MNW P	Z 02 50 30.5							
	ROX ELQ	NE 02 55 00							
	WEL ELR	ZNE 02 57 30							
JAN 27	WEL P	ZN 05 43 40.2							
	E	Z 44							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 27	15 36 56.2	10.6S 166.1E	165KM	4.3					WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE
	CNZ EP	Z 15 42 40							
	GNZ P	Z 15 42 47							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 28	05 43 22.1	6.3S 148.7E	33KM	5.1					WEL 42
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ P	Z 05 51 01							
	GNZ P	Z 05 51 09							
	WEL EP	Z 05 51 16		1	20				5.0
	EPP	Z 53 12		1	18				5.2
	ELR	Z 06 00 36		3	25				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 28	14 09 17.1	36.5N 70.9E	207KM	6.1					WEL 122
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	MNW P	Z 14 27 41							
	*PP	Z 28 33							
	ROX EPKP	Z 14 27 44							
	ESS	E 46 00						12 40	
	CNZ PKP	Z 14 27 45.5							
	E	Z 28 12							
	E	Z 30 00							
		Z 37 46							
	KRP EPKP	Z 14 27 46							
	WEL PKP	ZNE 14 27 46.5 U							
	*PPKP	ZNE 28 40							
	IPKS	ZNE 30 12	D	3	24				
	SKS	ZNE 40 12		2	20	2	10	3	24
	ESS	ZE 46 00		6	36			8	40
	LR	ZE 15 08 00		22	60			20	64
	GNZ PKP	Z 14 27 50							
JAN 30	GNZ EP	Z 03 15 27							
	I	Z 31							
	ES	Z 16 36							
	E	Z 44							
	TUA EP	Z 03 15 33							
	ES	Z 16 51							
	WEL S	NE 03 17 50							
	COB S	E 03 18 03							
	GPZ EP	N 03 16 37							
	S	N 18 48							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 30	12 39 23.8	1.7N 99.6E	133KM	5.4					WEL 80
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ P	Z 12 51 20							
	E	Z 31							
JAN 31	WEL ELR	Z 04 50 36							
JAN 31	WEL ELR	Z 22 00 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 01	01 47 52.1	51.8N 170.8W	34KM	5.2					WEL 94
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL LR	Z 02 31 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 01	13 17 03.7	11.3S 162.1E	50KM	4.6					WEL 32
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL LR	Z 13 37 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 02	02 48 17.0	19.9S 177.4W	334KM	4.1					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ E?	Z 02 57 37							

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 02	05 41 13.0	21.9S 169.5E	33KM							WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	
	WEL LR	ZNE 05 50 00								
	ROX LQ	E 05 52 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 02	06 58 16.5	39.1N 114.2W	33KM							WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	
	WEL LR	Z 07 20 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 02	08 54 48.3	24.2N 122.6E	28KM	5.0						WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	
	CNZ EP?	Z 09 06 57								
	E	Z 58								
	GNZ EP?	Z 09 07 00								
	E	Z 04								
	E	Z 11								
	WEL E(S)	Z 09 17 06								
	ESP	Z 18 00								
	EL	Z 33 00		1	23					
	ROX EP	Z 09 07 11								
	E(S)	E 17 16								
	E(SS)	E 22 00								
	EL	E 34 30								
FEB 02	WEL EL	Z 11 19 00								
FEB 03	ROX E(S)	Z 08 19 16								
	E(L)	E 24								0 14
	MNW P	Z 08 17 43								
	E(S)	Z 18 35								
	E	Z 40								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 03	08 43 36.3	31.5N 114.2W	14KM	4.6						WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	
	WEL E(L)	Z 09 34 00								
FEB 03	WEL E(L)	Z 15 48 00								
FEB 03	WEL E(L)	Z 19 38 00								
	EL	Z 41 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 03	20 05 47.6	23.2S 179.8W	509KM	4.4						WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	
	KRP E(P)	Z 20 09 01								
	GNZ EP	Z 20 09 03								
	ES	Z 11 42								
	CNZ EP	Z 20 09 10								
	E(S)	Z 12 01								
	TNZ EP?	Z 20 09 12								
	E	Z 15								
	WEL P	Z 20 09 31								
	E	ZE 12 33								
	E(S)	N 35								
	MNW EP	Z 20 10 28								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 03	23 12 26.7	31.0N 114.3W	14KM	4.8						WEL
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	
	WEL EL	Z 23 47 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 04	10 02 21.4	48.2N 154.4E	40KM	4.8						WEL 91
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 10 45 00								
FEB 04	WEL EL?	Z 15 33 00								
FEB 05	WEL EL	Z 01 36 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 05	11 18 16.3	30.4S 177.9W	114KM	4.9						WEL 12
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z 11 20 23								
	E	Z 21 48								
	E	Z 56								
	E	Z 22 00								
	E	Z 05								
	TUA S	Z 11 22 18								
	CNZ E?	Z 11 20 46								
	E	Z 48								
	E(S)	Z 22 47								
	TNZ E(P)	Z 11 20 57								
	ES	Z 23 07								
	WEL E	Z 11 21 19								
	E	ZNE 23 22								
	E(S)	ZNE 24								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 05	11 30 15.7	36.5N 141.0E	46KM	5.4						WEL 83
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL E(P)	Z 11 42 48								
	E	Z 45 06								
	E(PP)	Z 52								
	E(SS)	Z 58 00								
	ESSS	Z 12 02 00								
	E	Z 05 00								
	EL	ZE 09 00				5	20			
	ROX E(SKS)	N 11 53 16								
	ELQ	E 12 06 00								
	EL	NE 12 00						3	22	4 22
	E	ZNE 46 57						3	18	6 18

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
FEB 05	11 35 18.6	19.7S 179.8W	414KM	5.5						WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z 11 39 12								
	E	Z 15	D							
	E(S)	Z 42 23								
	E	Z 24								
	KRP EP	Z 11 39 13								
	TUA EP	Z 11 39 16								
	ES	Z 42 31								
	CNZ EP	Z 11 39 22								
	ES	Z 42 40								
	E	Z 45 48								
	TNZ EP	Z 11 39 26								
	WEL P	Z 11 39 40	D							
	E	Z 41 50	D							
	E(S)	E 43 15								
	E	N 17								
	ROX P	Z 11 40 29								
	E(*PP)	Z 41 52								
	MNW IP	Z 11 40 36	D							
	E(*PP)	Z 42 00								
	E	Z 06								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 05	12 48 40.9	16.6S 179.6W	475KM	4.0	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
GNZ	EP	Z	12 52 50							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 05	16 15 08.1	3.8S 141.3E	110KM	4.5	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
CNZ	P	Z	16 23 32							
TUA	EP	Z	16 23 36							
MNW	EP	Z	16 23 37							
GNZ	EP	Z	16 23 40							
ROX	EP	Z	16 23 44							
WEL	EL	Z	16 39 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 05	16 21 50.3	3.7S 140.0E	55KM		WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
GNZ	E?	Z	16 30 07							
	E?	Z	45							
	E?	Z	54							
CNZ	EP	Z	16 30 26							
WEL	EP?	Z	16 30 36							
FEB 06	WEL EL	Z	02 39 00							
FEB 06	WEL EL	Z	08 30 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 06	13 07 25.2	55.7N 155.8W	33KM	5.6	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
WEL	EP	Z	13 21 08	D						
	E	Z	31 24							
	ESKS	NE	40							
	ES	E	32 49							
	ESP	ZN	34 06							
	ESS	ZN	39 20							
	ESSS	N	44 00						78	48
	ELQ	NE	49 00						32	29
	ELR	ZNE	55 00				40	26		
ROX	ESKS	N	13 32 04						23	24
	ES	E	33 28							
	ESP	N	35 03							
	ESS	NE	40 00							
	ELQ	NE	51 00						12	21
	EL	ZNE	14 00 00							
	EPP?	N	25 38							
	E	N	51							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 06	13 13 45.2	55.8N 155.9W	33KM	5.4	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
WEL	E(P)	Z	13 27 30							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 06	15 19 38.1	10.5S 120.7E	43KM	4.9	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
COB	EP?	E	15 29 08							
	E	E	10							
TNZ	E(P)	Z	15 29 13							
GPZ	EP?	N	15 29 13							
WEL	EP	Z	15 29 17							
	E	Z	36							
CNZ	E	Z	15 29 39							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 06	20 32 54.9	33.5S 178.4W	33KM	5.0	WEL 9

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	20 34 23								
	E	Z	55								
	E	Z	35 32								
TUA	EP	Z	20 34 30								
	ES	Z	35 45								
KRP	E	Z	20 34 39								
	E	Z	35 04								
ONE	EP?	E	20 34 31								
	E	E	33								
	E	E	42								
CNZ	EP	Z	20 34 44								
	E	Z	58								
	E(S)	Z	36 09								
	E	Z	15								
	E	Z	28								
TNZ	EP	Z	20 34 53								
WEL	ES	ZNE	20 36 52								
	EL	E	38 00								
GPZ	E	N	20 35 34								
	ES	N	37 57								
	E	N	38 10								
MNW	E(P)	Z	20 36 46								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 07	06 31 21.8	5.8S 154.0E	77KM	4.6	WEL 40

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
CNZ	P	Z	06 38 39.5	U							
TUA	EP	Z	06 38 42								
GNZ	EP	Z	06 38 45								
WEL	EP	Z	06 38 49								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 07	09 34 27.2	14.8S 167.5E	159KM	4.4	WEL 27

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
CNZ	EP	Z	09 39 43								
	E	Z	54								
WEL	E?	Z	09 40 19								
ROX	P	Z	09 40 28								
MNW	EP	Z	09 40 31								
FEB 07	CNZ EP	Z	11 04 34								
	TNZ E	Z	11 04 35								
FEB 07	CNZ EP	Z	11 31 35								
	WEL E?	Z	11 31 54								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 07	12 58 53.6	39.8N 142.8E	45KM	5.4	WEL 86

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
TNZ	EP	Z	13 11 21								
CNZ	EP	Z	13 11 22								
FEB 07	ROX EL	E	14 44 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 08	00 29 48.0	19.0S 180.0E	600KM	4.0	WEL 23

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	E(P)	Z	00 33 41								
FEB 08	WEL EL	Z	00 38 00								
	ROX EL	E	00 39 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 08	09 55 59.9	9.2N 126.2E	57KM	5.7	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	WEL EL	Z	10 29 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 08	11 17 46.5	52.3N 175.6E	60KM	5.4	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	GNZ EP	Z	11 30 41							
	CNZ EP	Z	11 30 42							
	TNZ EP	Z	11 30 44							
	WEL EL	Z	12 01 00							
	ROX EL	NE	12 04 00							
FEB 08	WEL EL	Z	17 46 00							
	MNW E	Z	17 39 40							
	E	Z	43							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 08	18 54 51.2	28.4S 62.6E	33KM		WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	WEL EL	Z	19 36 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 09	02 00 07.3	16.5S 179.2W	480KM	5.3	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	ONE EP	E	02 04 11							
	ES	E	07 35							
	KRP EP	Z	02 04 26							
	GNZ EP	Z	02 04 26							
	E(S)	Z	08 00							
	E	Z	02							
	E	Z	10 58							
	TUA EP	Z	02 04 34							
	TNZ EP	Z	02 04 39							
	WEL EP	Z	02 04 53							
	E	Z	06 24							
	E	E	08 47							
	E(S)	E	52							
	E	Z	11 06							
	ROX E	NE	02 12 54							
	MNW P	Z	02 05 47							
	E	Z	07 18							
	E	Z	24							
	E?	Z	10 20							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 10	09 56 44.9	20.9S 178.6W	575KM	4.6	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	KRP EP	Z	10 00 21							
	GNZ EP	Z	10 00 22							
	E	Z	03 19							
	CNZ EP	Z	10 00 30							
	E?	Z	02 40							
	TNZ EP	Z	10 00 35							
	E	Z	01 04							
	WEL EP	Z	10 00 49							
	MNW P	Z	10 01 46							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 10	17 27 07.2	6.1S 104.1E	126KM	5.5	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	CNZ EP	Z	17 38 33							
	E(*PP)	Z	57							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 10	17 27 58.2	6.1S 104.1E	33KM	5.5	WEL 71

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW E(P)	Z	17 38 51								
	E	Z	39 06								
	ROX EL	E	18 03 00								
	WEL EL	Z	18 04 00								
	CNZ P	Z	17 39 19.5	D							
	E	Z	33								
	E	Z	47								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 10	23 45 58.4	59.8S 150.3E	33KM		WEL 24

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW EP	Z	23 50 05								
	ROX EP	Z	23 50 19								
	EL	ZNE	54 00				2	20			
	WEL EL	ZNE	23 57 00								
	CNZ EP?	Z	23 51 25								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 11	03 49 10.6	27.9N 128.0E	78KM	4.8	WEL 81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX EP	Z	04 01 25								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 11	18 21 05.5	15.9S 173.1W	33KM	5.2	WEL 27

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z	18 26 16								
	WEL EL	ZNE	18 34 00								
	ROX EL	E	18 36 00								
	MNW EP	Z	18 27 53								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 11	21 29 52.4	10.2S 161.3E	95KM	5.0	WEL 33

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ EP	Z	21 36 08								
	ROX EP	Z	21 36 41								
	MNW EP	Z	21 36 44								
FEB 12	GNZ E?	Z	07 25 00								
	E?	Z	11								
	E	Z	23								
	TUA E(P)	Z	07 25 06								
	CNZ E?	Z	07 25 23								
	E?	Z	30								
	E	Z	39								
	E	Z	52								
	WEL ES	E	07 27 25								
	EL	Z	29 00								
	GPZ ES	N	07 28 33								
FEB 12	WEL EL	Z	10 22 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
FEB 12	20 31 53.2	3.5S 146.6E	33KM	5.4	WEL 45

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EP?	Z	20 40 04								
	E	Z	14								
	MAX	ZE	59 00								
	TUA EP	Z	20 40 05								
	GNZ EP	Z	20 40 07								
	ROX ES	ZNE	20 47 02								
	ESS	N	51 00								
	EL	ZNE	52 00								
	MNW EP	Z	20 40 17				9	18	8	20	

FEB 12	CNZ	EP	Z	21 04 21												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 12	22 33 59.2		15.3S 174.4W		33KM	5.0										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	GNZ	EP	Z	22 39 15												
	CNZ	EP	Z	22 39 23												
	WEL	EP	Z	22 39 42												
		E	Z	45 00												
		EL	ZNE	46 00		11	20									
	ROX	ES	E	22 45 44												
		ESS	E	48 00												
		EL	NE	49 00								19	21			
FEB 13	WEL	EL	Z	03 04 00												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 13	03 25 45.1		3.5S 146.6E		33KM	5.3										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	CNZ	EP	Z	03 33 54	D											
	GNZ	EP?	Z	03 33 59												
		E	Z	34 09												
	WEL	EL	Z	03 44 00												
	ROX	EL	E	03 45 30												
FEB 13	WEL	EL	Z	04 56 00												
FEB 13	WEL	EL	Z	08 32 00												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 13	10 03 50.6		26.1N 100.9E		33KM	4.7										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	WEL	E	Z	10 37 42		0	32									
		L	ZNE	40 00												
	ROX	EL	NE	10 40 00												
FEB 13	WEL	E(L)	Z	10 56 00												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 13	11 42 16.5		18.3S 173.8W		33KM	4.3										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	GNZ	EP	Z	11 47 02												
	WEL	EP	Z	11 47 39												
		EL	Z	57 00												
	MNW	EP	Z	11 48 39												
FEB 14	CNZ	EP	Z	00 43 31												
	TUA	EP	Z	00 43 36												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 14	16 29 45.0		5.1S 151.7E		55KM	6.0										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	CNZ	EP?	Z	16 37 16												
		E	Z	19												
	TUA	EP	Z	16 37 21												
	GNZ	EP	Z	16 37 23												
		E	Z	27												
		E	Z	43 42		4	24									
	WEL	EP	Z	16 37 31												
		E	Z	33												
		E(PP)	Z	39 12		4	16					11	28			
		ES	ZE	43 36												
		ESS	Z	46 00								28	23			
		EL	ZE	47 00		> 60	23									
	MNW	EP?	Z	16 37 38												
		E	Z	40												
		E	Z	38 22												

	ROX	EP?	Z	16 37 42												
		E	ZNE	46								2	24	1	26	
		E	Z	38 20												
		E(PCS)	ZNE	43 19												
		ES	NE	44 00								14	26	12	26	6.2
		ESS	ZNE	47 20												
		EL	ZNE	50 00					31	19		38	19	27	19	
FEB 14	WEL	MAX	Z	19 19 00												
	ROX	EL	NE	19 21 00												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 15	14 00 07.8		19.7S 177.8W		332KM	4.5										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	GNZ	E(P)	Z	14 04 07												
	CNZ	EP	Z	14 04 18												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 15	16 33 08.0		4.8S 152.4E		71KM	5.5										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	CNZ	EP	Z	16 40 40												
		E*PP	Z	57												
	GNZ	EP	Z	16 40 45												
		E	Z	41 03												
	WEL	E(P)	Z	16 40 51												
		E(*PP)	Z	41 06												
		E(S)	Z	46 54												
		ESS	ZE	50 20												
		EL	Z	53 00												
	ROX	E(P)	Z	16 41 24												
		EL	NE	54 00								1	18	1	20	
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 15	22 01 58.4		8.7S 157.1E		52KM	5.1										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	ROX	EL	E	22 19 00												
	WEL	EL	ZE	22 20 00												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 16	10 16 20.8		18.2S 168.1E		33KM	4.2										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	WEL	EL	Z	10 29 00												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 16	15 32 02.5		21.5S 178.4W		600KM	3.8										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	CNZ	EP	Z	15 35 37												
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 16	21 34 32.3		5.6S 152.0E		49KM	5.6										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	CNZ	EP	Z	21 42 01												
	GNZ	EP	Z	21 42 08												
	WEL	EP	Z	21 42 11	D											
		E(PP)	Z	44 08												
		ESS	Z	51 44												
		EL	ZE	54 30					4	21				2	22	
	ROX	ESS	E	21 52 00												
		EL	ZNE	55 00								2	20	2	20	
	H M S		EPICENTRE		DEPTH	MAG									DIST (DEG) WEL	
FEB 17	05 50 41.8		23.1N 120.6E		33KM	4.9										
			H M S		DIR	AZ	TZ		AN	TN		AE	TE	MAG		
	CNZ	E(P)	Z	06 02 52												
		E	Z	57												
	MNW	E(P)	Z	06 02 54												

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 17	16 43 06.9	22.6S 179.3E	547KM	4.9					WEL 1
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ	EP	Z 16 46 26							
	ES	Z 49 06							
TUA	ES	Z 16 49 10							
CNZ	E	Z 16 46 02							
	E(P)	Z 36							
WEL	E	E 16 49 58							
	E	ZE 50 02							
MNW	EP?	Z 16 47 47							
	E	Z 49							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 18	01 31 21.8	16.2S 166.4E	77KM	4.8					WEL 2
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
ONE	E	E 01 36 01							
CNZ	EP	Z 01 36 34							
GNZ	IP	Z 01 36 35	U						
WEL	EL	Z 01 43 00							
ROX	EP	Z 01 37 17	U						
	EL	E 44 30						2 20	
MNW	E(P)	Z 01 37 19							
	E(*PP)	Z 30							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 18	04 42 47.7	15.5S 175.0W	289KM	4.8					WEL 3
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
CNZ	EP	Z 04 47 48							
ROX	E(P)	Z 04 48 55							
MNW	EP	Z 04 49 02							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 18	04 45 42.0	14.2N 146.5E	78KM	5.0					WEL 4
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
CNZ	EP	Z 04 55 38							
WEL	EP?	Z 04 55 46							
	EL	Z 05 16 00				1	20		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 18	10 35 20.1	10.3S 161.2E	73KM	4.9					WEL 3
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	E?	Z 10 41 23							
	E	Z 28							
CNZ	EP	Z 10 41 37							
GNZ	E(P)	Z 10 41 43							
WEL	EL	Z 10 51 00							
ROX	E(P)	Z 10 42 13							
	EL	NE 53 00				1	20	1 22	
MNW	EP	Z 10 42 13							
FEB 18 ROX	EL	E 13 10 00							
WEL	EL	Z 13 13 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 18	19 09 35.1	23.5S 179.2W	361KM	4.0					WEL 5
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 19 12 51							
GNZ	EP	Z 19 12 51							
	E	Z 53							
	ES	Z 15 35							
CNZ	E(P)	Z 19 13 07							
WEL	EP	Z 19 13 26							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 18	22 45 35.1	14.2S 174.9W	33KM	4.6					WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ	EP	Z 22 50 40							
KRP	P	Z 22 50 41							
	E	Z 53							
CNZ	E(P)	Z 22 50 44							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 19	09 15 29.4	9.6S 107.3E	48KM	5.0					WEL 67
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 09 26 20							
	E	Z 27							
WEL	EL	Z 09 48 00							
ROX	EL	E 09 50 00							
FEB 19 KRP	EP	Z 10 01 23							
GNZ	EP	Z 10 01 26							
	E(S)	Z 03 50							
TUA	ES	Z 10 03 56							
CNZ	EP?	Z 10 01 35							
	E(S)	Z 04 04							
	E	Z 09							
WEL	I(S)	Z 10 04 41	W						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 19	15 25 58.9	21.4S 70.7W	80KM	5.2					WEL 93
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	L	ZE 16 09 00							
FEB 19 CNZ	P?	Z 23 53 26	D						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 19	23 49 45.2	18.7S 169.2E	207KM	4.7					WEL 23
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 23 54 03							
CNZ	EP	Z 23 54 14							
GNZ	EP	Z 23 54 15							
WEL	EP	Z 23 54 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	08 35 36.2	46.6N 152.5E	50KM	4.8					WEL 90
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	E	Z 08 48 32							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	09 06 59.0	17.7S 178.8W	604KM	3.8					WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	E(P)	Z 09 11 01							
GNZ	EP	Z 09 11 01							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	09 53 51.1	44.6N 150.0E	50KM	5.2					WEL 88
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP?	Z 10 06 22							
	E	Z 25							
	E	Z 37							
WEL	E(SKS)	Z 10 17 18							
	ESP	Z 18 32							
	EL	Z 37 00							
ROX	EL	E 10 42 00				1	22		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	12 03 18.7	14.5N 93.0W	49KM	4.4					WEL 101
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	EL	Z 12 50 00							
ROX	EL	E 12 55 00							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 20	18 22 15.5		17.2S 179.0W	585KM	3.9					
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z	18 26 19	U						
	GNZ EP	Z	18 26 20							
	TNZ E	Z	18 26 42							
	WEL EP?	Z	18 26 45							
	ROX E(P)	Z	18 27 31							
	E	Z	34.5							
	MNW E(P)	Z	18 27 41							
FEB 20	WEL EL	Z	21 36 00							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 22	08 50 35.0		30.1S 177.3W	33KM	5.1					
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z	08 52 48							
	E	Z	52							
	E	Z	53 09							
	E	Z	22							
	E(S)	Z	54 37							
	ONE E(P)	E	08 52 56							
	E	E	53 10							
	TUA E(P)	Z	08 52 56							
	E(S)	Z	54 48							
	KRP EP	Z	08 52 58.5							
	E	Z	53 12							
	E	Z	18							
	E	Z	29							
	E	Z	54 52							
	CNZ E(P)	Z	08 53 15							
	E	Z	28							
	E	Z	55 22							
	E	Z	37							
	E	Z	56 02							
	TON E	Y	08 53 49							
	E(S)	Y	55 15							
	TNZ E(P)	Z	08 53 24							
	E	Z	27							
	E	Z	54 00							
	WEL E(P)	Z	08 53 50							
	E	ZNE	55 54							
	ES	ZNE	57							
	L	Z	58 00			1	22			
	CoB E(P)	E	08 53 57							
	ES	E	56 15							
	KAI EP	X	08 54 18							
	ES	X	56 53							
	GPZ EP	N	08 54 20							
	ES	N	56 59							
	ROX EP	Z	08 54 50							
	E(S)	Z	58 10							
	L	NE	09 00 00			1	22	1	22	
	MNW EP?	Z	08 55 01							
	E	Z	03							
	E(S)	Z	58 32							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 22	16 04 35.6		30.1N 138.8E	411KM	4.8					
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z	16 15 39.5	U						
	CNZ EP	Z	16 15 45							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 22	17 50 56.2		48.5N 154.9E	60KM	5.3					91
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL L	Z	18 35 00							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 22	21 16 27.5		24.1N 123.2E	48KM	5.2					81
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP E(P)	Z	21 28 31							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 23	12 26 40.4		15.4S 173.8W	96KM	4.6					28
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z	12 31 51							
	GNZ EP	Z	12 31 51							
	TNZ EP	Z	12 32 07							
	WEL E	Z	12 32 23.5							
FEB 24	WEL EL?	Z	00 19 00							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 24	05 02 13.5		24.8S 179.7W	290KM	4.4					17
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP?	Z	05 05 27							
	E	Z	29							
	E	Z	06 02							
	TUA E(S)	Z	05 07 55							
	WEL EP?	Z	05 06 02							
	E	Z	08 47							
	E	E	54							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 24	14 51 46.2		15.5S 174.0W	87KM	4.5					27
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z	14 56 56							
	KRP EP	Z	14 56 57							
	TUA EP	Z	14 56 59							
	CNZ EP	Z	14 57 07							
	TNZ EP	Z	14 57 11							
	E	Z	48							
	ROX EP	Z	14 58 14							
	MNW EP	Z	14 58 22							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
FEB 24	16 18 17.8		31.6S 177.8W	377KM						11
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	ONE EP	E	16 20 08							
	ES	E	21 24							
	GNZ EP	Z	16 20 10							
	E(S)	Z	21 25							
	E	Z	29							
	E	Z	32							
	KRP EP	Z	16 20 15							
	E	Z	17	U						
	E	Z	21 21							
	E	Z	44							
	TUA E(P)	Z	16 20 15							
	E	Z	19							
	E(S)	Z	21 38							
	E	Z	42							
	CNZ EP?	Z	16 20 24							
	E	Z	26							
	E	Z	53							
	E	Z	22 02							
	TON ES	Y	16 22 00							
	WEL EP	Z	16 20 50							
	ES	ZNE	22 40							

	GPZ E(P)	N	16 21 25									
	ES	N	23 41									
	ROX ES	Z	16 24 41									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 24	19 59 33.7		19.2S 169.4E	244KM	4.7							WEL 22
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z	20 03 42									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 25	00 34 32.0		44.7S 37.5E	33KM	6.7							WEL 88
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL EL	Z	01 15 00									
	ROX EL	N	01 18 00									
	MNW EP	Z	00 46 39									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 25	02 28 55.5		9.1S 110.7E	81KM								WEL 65
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL EL	Z	03 02 00									
	ROX EL	E	03 04 00									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 25	03 08 23.8		49.7S 112.1E	33KM								WEL 44
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	ROX E(SS)	NE	03 24 00									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 25	04 04 29.0		32.1N 137.7E	374KM	4.8							WEL 81
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z	04 15 50	U								
	MNW EP	Z	04 17 18									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 25	15 18 32.9		5.6S 151.8E	42KM	5.0							WEL 42
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	CNZ E(P)	Z	15 26 07									
	WEL EL	Z	15 39 00									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 25	20 57 30.6		11.5N 142.0E	16KM	4.7							WEL 81
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL EL	Z	21 27 00									
FEB 25	MNW E(P)	Z	21 44 10									
	WEL EL	Z	21 51 00									
	ROX EL	NE	21 48 30									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 25	23 23 33.3		30.1S 177.9W	51KM	4.8							WEL 57
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	ONE E(P)	E	23 25 42									
	E	E	27 51									
	KRP EP?	Z	23 25 46									
	E	Z	50									
	E	Z	58									
	GNZ E	Z	23 25 59									
	E	Z	26 10									
	E	Z	27 14									
	TUA E	Z	23 25 45									
	E	Z	26 11									
	ES	Z	27 27									
	CNZ E(P)	Z	23 26 12									
	E	Z	27									
	E(S)	Z	28 04									
	WEL EP?	Z	23 26 39									
	E	Z	41									
	E	N	28 33									

	ES	E	35									
	EL	ZNE	30 00			2	20					
	ROX E(P)	Z	23 27 40									
	EL	E	32 00							1	23	
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 25	23 31 25.7		25.9S 178.8W	296KM	4.5							WEL 16
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP P	Z	23 34 20	D								
	E	Z	36 42									
	GNZ EP	Z	23 34 20									
	E	Z	36 34									
	E	Z	38									
	TUA E(P)	Z	23 34 21									
	E(S)	Z	36 40									
	CNZ EP	Z	23 34 30									
	E(S)	Z	36 54									
	E	Z	37 06									
	WEL E(S)	E	23 37 39									
	E	NE	43									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 26	08 51 29.5		56.0S 148.4E	33KM	4.8							WEL 23
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	ROX E	NE	08 59 04									
	EL	Z	35									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 26	18 14 37.9		4.4N 126.2E	132KM	5.3							WEL 63
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z	18 24 48									
	GNZ E	Z	18 25 22									
	TUA E	Z	18 24 56									
	WEL E?	Z	18 25 22									
	ROX E(P)	Z	18 24 54									
	E(*PP)	Z	25 17									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 26	21 17 08.1		20.7S 174.4W	33KM	5.0							WEL 22
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z	21 21 31									
	E	Z	22 22									
	E	Z	45									
	GNZ P	Z	21 21 32	D								
	E(S)	Z	24 47									
	WEL E?	Z	21 22 03									
	E	Z	08									
	ROX E	Z	21 23 02									
	EL	E	30 00							3	18	6 18
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 26	23 11 04.4		11.7S 166.3E	64KM	4.7							WEL 30
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL EL	Z	23 26 00									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 27	02 32 23.7		7.6S 39.6E	33KM								WEL 116
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL EL	Z	03 30 00									
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)
FEB 27	06 28 35.9		4.5S 143.4E	37KM	5.2							WEL 46
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP P	Z	06 36 43									
	CNZ EP	Z	06 36 50									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 27	11 35 32.4	18.9N 104.0W	33KM	4.5						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 12 20 00								
FEB 27	WEL L	Z 15 15 00								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 27	15 10 48.8	21.7N 94.4E	102KM	6.4						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW EP	Z 15 23 58								
	ROX EP	Z 15 24 01.5								
	ESKS	NE 35 04								
	ESS	NE 42 00								
	E(SSS)	N 47 30								
	EL	N 50 00						2	21	
	EL	NE 56 00								
	KRP EP	Z 15 24 08								
	CNZ P	Z 15 24 10	U							
	WEL EP	Z 15 24 10								
	EPP	Z 28 03								
	E	Z 47								
	E(S)	N 35 12								
	EPS	ZNE 37 00								
	ESS	ZNE 42 00								
	EL	ZNE 51 00								
	EL	Z 57 00								
	GPZ EP	N 15 24 15								
FEB 28	WEL EL	Z 06 48 00								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 28	15 11 00.8	24.4S 179.9E	590KM	4.3						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 15 14 00.5								
	GNZ EP	Z 15 14 01								
	E	Z 16 33								
	E	Z 35								
	E	Z 41								
	CNZ EP	Z 15 14 10								
	E	Z 16 53								
	WEL EP	Z 15 14 28								
	E	Z 30								
	ES	ZNE 17 26								
	MNW EP	Z 15 15 26								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 28	17 47 05.9	18.2N 94.3E	43KM	5.3						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 18 00 24								
	E*PP	Z 36								
	CNZ EP	Z 18 00 25								
	E*PP	Z 36								
	WEL EL	ZN 18 30 00								
	ROX EL	E 18 36 00								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 28	20 46 00.1	13.3N 144.7E	33KM	5.2						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP E(P)	Z 20 56 06								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 29	07 27 31.9	15.5S 178.7W	407KM	4.0						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 07 32 05								
	GNZ P?	Z 07 37 07								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 29	07 51 55.1	38.2S 74.5W	33KM	4.2						79
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 08 34 00								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 29	15 20 12.8	34.8N 141.7E	34KM	5.1						82
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 15 32 14								
	CNZ E(P)	Z 15 32 20								
	WEL E(S)	NE 15 42 38								
	EL	E 54 00			1	18		1	18	
	EL	Z 59 00								
	ROX EL	E 15 57 00								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 29	18 24 20.4	15.0S 167.4E	110KM							27
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 18 29 27								
	CNZ EP	Z 18 29 28								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 29	20 13 41.6	18.2S 172.8W	33KM	5.1						25
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ E(P)	Z 20 18 29								
	E	Z 39								
	E(S)	Z 22 25								
	KRP EP	Z 20 18 36								
	E	Z 38								
	TUA E(P)	Z 20 18 37								
	E(S)	Z 22 31								
	CNZ EP	Z 20 18 45								
	E	Z 50								
	ES	Z 23 01								
	TNZ EP	Z 20 18 55								
	WEL EP	Z 20 19 05								
	E	E 23 35								
	E(S)	ZNE 39								
	EL	Z 25 00			1	24				
	ROX E(P)	Z 20 20 09								
	EL	E 30 00								
	MNW EP	Z 20 20 12								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
FEB 29	23 49 40.8	8.5S 112.7E	73KM	5.8						64
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW P	Z 23 59 41								
	E	Z 24 00 23								
	ROX EP	Z 23 59 46								
	E(PCS)	E 24 04 18								
	ES	NE 07 54								
	ESS	E 12 00								
	ESSS	N 14 30								
	EL	E 18 00						1	20	
	COB EP	E 23 59 55								
	TNZ EP	Z 24 00 01								
	WEL P	Z 24 00 04	D							
	EPCP	Z 36								
	EPP	Z 02 24								
	PCS	Z 04 51								
	ES	ZNE 08 26								
	E	E 10 10								
	ESS	E 12 36								
	E(SSS)	ZN 15 48								
	EL	ZE 19 00			1	20		1	20	
	KRP P	Z 24 00 05.5	D							
	E(*PP)	Z 23								

		E(PCP)	Z		36								
	CNZ	EP?	Z	24	00	06							
		E	Z			07							
		EPCP	Z			41							
	WNZ	E(P)	Z	24	00	09							
	TUA	P	Z	24	00	13.5	U						
		EPCP	Z			45							
	GNZ	EP	Z	24	00	17	D						

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 01	02	40	21.6	7.1S 155.4E	100KM	4.8						WEL 3
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z 02 47 11								
	WEL	ELR		Z 02 58 00								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 01	12	54	37.3	7.8N 122.5E	31KM	6.2						WEL 68
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z 13 05 41								
	CNZ	EP		Z 13 05 44								
MAR 01	WEL	ELR		Z 22 57 00								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 02	11	57	16.8	23.5S 116.6W	33KM	4.7						WEL 59
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z 12 07 07								
	CNZ	EP		Z 12 07 07								
MAR 02	WEL	ELR		Z 13 26 00								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 02	19	32	41.7	18.9S 174.8W	105KM	5.3						WEL 24
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	P		Z 19 37 14								
		ES		Z 40 56								
	KRP	P		Z 19 37 16								
		ES		Z 41 03								
	CNZ	EP		Z 19 37 24								
		ES		Z 40 20								
	WEL	P		ZNE 19 37 49		2	28					5.1
		ES		ZNE 42 02		3	28					
		ELR		Z 44 30		7	24					
	ROX	EP		Z 19 38 41								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 03	03	56	56.1	33.1S 179.9W	128KM							WEL 1
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ONE	EP		E 03 58 25								
	GNZ	P		Z 03 58 28								
		S		Z 59 30								
	KRP	P		Z 03 58 32								
	CNZ	P		Z 03 58 44								
	WEL	ES		ZNE 04 00 44								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 03	15	12	14.9	30.4S 177.9W	33KM	4.3						WEL 12
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP		Z 15 14 19								
		S		Z 15 55								
	ONE	P		E 15 14 23								
	KRP	EP		Z 15 14 30								
	WEL	S		ZNE 15 17 16								
		ELR		Z 18 00		1	20					
MAR 03	ONE	EP		E 16 02 54								
	KRP	EP		Z 16 03 18								
	GNZ	EP		Z 16 03 33								

	CNZ	P	Z	16	03	38							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 04	03	17	22.9	20.9S 168.6E	33KM	4.6						WEL 21
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ELR		Z 03 29 00								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 04	04	06	27.6	7.1S 129.5E	120KM	5.3						WEL 53
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z 04 15 58								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 04	06	08	58.6	33.8S 179.6W	47KM							WEL 9
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	P		Z 06 10 15								
	ONE	P		E 06 10 24								
		E		E 11 09								
	KRP	P		Z 06 10 25								
		E		Z 38								
	CNZ	EP		Z 06 10 36								
		E		Z 42								
	WEL	S		ZNE 06 12 31								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 04	23	34	22.5	19.3S 175.6W	222KM	4.0						WEL 23
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	P		Z 23 38 41								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 05	06	00	41.3	45.2S 96.4E	40KM	5.5						WEL 55
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX	EP		Z 06 09 32								
		S		NE 16 48								
		ELQ		NE 22 00				3	20			
		ELR		Z 25 00		7	20					
	CNZ	EP		Z 06 10 23								
	KRP	EP		Z 06 10 28								
	GNZ	EP		Z 06 10 32								
	WEL	ELR		ZNE 06 27 00								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 05	10	05	37.2	11.2S 162.2E	38KM	5.1						WEL 32
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z 10 11 37								
	CNZ	P		Z 10 11 48.5								
	GNZ	EP		Z 10 11 50								
	WEL	ELQ		NE 10 19 00								
	ROX	ES		NE 10 17 54								
		ELQ		E 21 00		3	15	3	14	4	14	
	MNW	EP		Z 10 12 26								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 05	20	31	57.4	16.4S 173.0W	33KM	4.7						WEL 27
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z 20 37 08								
	GNZ	EP		Z 20 37 09								
	CNZ	EP		Z 20 37 18								
	WEL	ELQ		Z 20 45 36								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	18	57	16.1	6.1S 154.4E	74KM	5.8						WEL 39
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z 19 04 21								
		I		Z 32								
	CNZ	P		Z 19 04 29.2								
	WEL	P		ZNE 19 04 40		3	8					6.2
		EPP		Z 06 22		1	16					5.4

	ES	ZNE	10 32								
	LQ	ZNE	13 44			5	25	7	40	8	40
	LR	ZNE	16 06			10	28	4	30	6	30
MNW	P	Z	19 04 53								
ROX	EP	Z	19 04 54								
	LQ	NE	14 30			9	22	7	24	7	26

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 06	20 42 55.8	19.5S 174.5E	56KM	4.6					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	P	Z 20 47 09.5							
CNZ	P	Z 20 47 25.0							
WEL	ELR	Z 20 53 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 06	21 05 50.2	19.7S 70.5W	50KM	5.3					WEL 94
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	ELR	Z 21 50 00							
MAR 06	KRP EP	Z 23 55 02							
	E	Z 09							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 06	23 51 28.5	22.9S 173.1E	54KM	4.6					WEL 18
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
CNZ	EP	Z 23 55 18							
GNZ	P	Z 23 55 20							
WEL	EP	Z 23 55 39			2	5			5.1
	ELR	Z 24 00 18			2	30			

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 07	01 46 21.1	21.4S 179.3W	593KM	4.1					WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	P	Z 01 49 50							
GNZ	P	Z 01 49 52							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 07	03 34 25.2	20.2S 177.8W	481KM	4.2					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 03 38 14							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 07	07 25 03.9	3.5S 97.1E	82KM	5.3					WEL 78
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 07 37 24							
WEL	ELR	Z 08 07 00							
MAR 07	WEL ELR	Z 11 18 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 07	21 06 06.9	5.6S 152.7E	62KM	4.8					WEL 41
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	ELR	Z 21 26 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 07	23 13 25.4	19.9S 177.9W	534KM	5.4					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ	EP	Z 23 17 14							
KRP	P	Z 23 17 14.0							
CNZ	P	Z 23 17 30							
WEL	P	Z 23 17 43							
MAR 08	ROX ELQ	NE 11 58 10						4 16	
	ELR	Z 59 00			3	14			
WEL	EP	Z 11 57 18			1	12			
	ES	ZNE 12 00 36							
	ELQ	ZNE 01 32			2	33			
	LR	Z 02 58			5	14	7	14	

CNZ	EP	Z	11 57 51								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	17 51 06.5	4.6S 152.6E	69KM	4.7					WEL 42
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	P	Z 17 58 30.5							
CNZ	EP	Z 17 58 40							
GNZ	EP	Z 17 58 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 10	13 59 54.8	1.9N 127.5E	117KM	5.6					WEL 61
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
MNW	P	Z 14 09 45							
	(PCP)	Z 10 15							
KRP	P	Z 14 09 47							
	(PCP)	Z 10 16							
ROX	EP	Z 14 09 51							
GNZ	P	Z 14 10 02							
WEL	ES	Z 14 18 00							
	ELR	ZNE 25			6	48		5 48	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 11	01 06 00.4	1.8N 127.1E	58KM	5.6					WEL 61
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
MNW	P	Z 01 15 57							
KRP	IP	Z 01 16 01.0 U							
ROX	EP	Z 01 16 03							
WEL	IP	ZNE 01 16 07.0 U							
	ELR	Z 35 20			4	44			
GNZ	P	Z 01 16 13							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 12	04 30 21.1	22.9S 179.2W	378KM	4.6					WEL 19
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ	P	Z 04 33 45							
	ES	Z 36 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 12	22 32 56.7	13.5N 122.9W	33KM	5.3					WEL 79
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	ELR	Z 23 07 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 13	04 26 23.5	4.1S 105.1W	33KM	4.6					WEL 80
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	ELR	Z 05 03 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 14	11 44 53.8	20.6S 178.5W	561KM	4.7					WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	P	Z 11 48 32.3							
GNZ	P	Z 11 48 34							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 14	12 16 53.4	20.6S 178.2W	260KM	4.1					WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 12 20 44							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 14	15 05 54.4	13.7S 172.3E	611KM	5.1					WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	IP	Z 15 10 26.2							
GNZ	P	Z 15 10 33							
WEL	P	ZNE 15 10 52							
ROX	P	Z 15 11 29							
MNW	P	Z 15 11 33							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 15	22 30 26.0	36.2N 7.6W	27KM	6.2	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	ROX EPP	NE	22 55 44							
	SKKS	N	23 02 06				5	12		
	SKSP	N	06 32							
	ESS	NE	16 50				2	18	5	13
	ELQ	E	48 00						9	32
	LR	ZN	24 00 00		22	18	19	19	19	19
	WEL EPKP	Z	22 50 09		6	9				
	IPKP	Z	36	U						
	EPKP2	Z	52 00		3	20				
	PP	Z	55 58		4	20				
	PCPPKP	Z	59 21		4	20				
	SS	E	23 17 00						11	24
	LR	Z	54 40		31	23	22	25	10	25
	KRP EPKP2	Z	22 52 19							
	PCPPKP	Z	59 37							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 16	08 44 32.8	44.8N 146.8E	140KM	5.7	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	KRP P	Z	08 57 47							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 16	14 58 23.4	11.5S 166.1E	69KM	4.8	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	KRP EP	Z	15 04 05							
	CNZ P	Z	15 04 16							
	WEL ELR	ZNE	15 13 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 16	18 59 27.9	9.6S 166.4E	33KM	4.5	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	WEL ELR	Z	19 15 00							
MAR 16	WEL ELQ	ZNE	19 23 00							
	ROX ELQ	NE	19 25 36							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 16	21 39 42.5	20.6S 178.7W	578KM	4.9	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	GNZ P	Z	21 43 22							
	S	Z	46 17							
	CNZ P	Z	21 43 30							
	S	Z	46 37							
	KRP EIP	Z	21 43 30.2	U						
	WEL P	Z	21 43 49							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 17	05 01 56.8	8.9S 108.8W	33KM	4.5	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	WEL ELR	Z	05 36 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 17	18 05 52.2	15.8S 173.3W	33KM	4.6	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	KRP EP	Z	18 11 04							
	WEL ELQ	NE	18 17 30							
	LR	Z	20 54		3	20				
	ROX ELQ	NE	18 21 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 18	00 10 34.8	17.3S 175.1W	268KM	4.8	WEL

			H M S	DIR	AZ	TZ	AN	TN	AE	TE
	KRP P	Z	00 15 13							
	GNZ P	Z	00 15 13							

MAR 18	GNZ EP	Z	02 32 17		
	E	Z	33 05		
	TUA EP	Z	02 32 22		
	E	Z	24		
	E	Z	33		
	ES	Z	33 15		
	ONE P	E	02 32 24		
	KRP EP	Z	02 32 26		
	WEL ES	NE	02 34 26		

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 18	04 37 26.9	52.5N 153.6E	440KM	5.6	WEL 95

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z	04 49 49								
	WEL ELR	Z	05 21 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 18	05 17 13.2	20.2S 178.4W	566KM	3.9	WEL 22

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z	05 20 56.0								
	GNZ P	Z	05 20 57.5								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 19	04 45 50.9	21.9S 179.5E	613KM	4.7	WEL 20

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ P	Z	04 49 14								
	ES	Z	52 05								
	CNZ P	Z	04 49 22								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 19	08 43 40.5	20.3S 178.3W	504KM	4.5	WEL 22

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ P	Z	08 47 26.5								
	CNZ P	Z	08 47 34								
MAR 19	WEL EL	Z	10 38 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 19	21 44 03.8	15.1S 172.6W	33KM	5.6	WEL 28

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z	21 49 24								
	ES	Z	53 58								
	KRP EP	Z	21 49 25								
	I	Z	28								
	WEL P	Z	21 49 53				3	16			5.8
	LR	ZNE	57 30				26	16			
	ROX EP	Z	21 50 54								
	LQ	NE	59 32						11	24	28 32
	ELR	Z	22 02 04				12	17			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 20	01 16 12.8	62.2S 155.8E	33KM		WEL 24

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW EP	Z	01 20 22								
	ROX LR	NE	01 25 00								
	WEL ES	ZE	01 25 41				1	20			
	ELR	ZNE	27 36				6	32			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 20	18 55 10.8	7.0S 115.2E	121KM	5.4	WEL 63

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z	19 05 25								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 20	19 15 16.3	19.8S 173.6W	33KM	4.7	

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	19 19 54								
KRP	EP	Z	19 19 56								
WEL	ELR	Z	19 29 00								

MAR 21	WEL	ELR	Z	00 06 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 21	03 42 19.6	6.4S 127.9E	367KM	5.4	

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	IP	Z	03 50 55.0	U							
ROX	EP	Z	03 50 59								
	SCP	Z	55 26								
	S	ZNE	58 00		5	16	7	20	19	24	
	*SS	NE	04 00 09				10	28			
	ELQ	NE	04 00				35	28	16	18	
KRP	IP	Z	03 51 05.0	U							
	SCP	Z	55 34								
	ES	Z	58 10								
WEL	IP	ZNE	03 51 09.1	USE	5	22					
	S	ZNE	58 15		10	28	15	16	17	44	
	*SS	ZNE	04 00 16								
	LQ	NE	04 39		12	22	22	28	10	21	
GNZ	P	Z	03 51 18.0	U							
	ES	Z	58 40								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 21	15 08 14.3	18.7N 103.1W	83KM	5.0	

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ESP	Z	15 34 10		1	20					
	ELR	ZE	52 00		1	26					

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 21	16 27 11.7	27.6S 177.2W	33KM	5.6	

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	16 29 54								
	E	Z	30 08								
	E	Z	16								
	S	Z	32 01								
ONE	EP	E	16 29 57								
	E	E	30 06								
KRP	EP	Z	16 30 00								
	I	Z	10								
	I	Z	17								
	I	Z	36								
WEL	EP	ZNE	16 30 48								
	S	ZNE	33 18								
	ELR	ZE	34 24		4	36					

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 22	05 32 07.7	2.7S 126.4E	33KM	5.1	

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	05 41 51								
WEL	ELR	Z	06 00 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 22	08 35 06.4	35.7S 72.9W	33KM	5.1	

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	08 47 40								
WEL	ES	ZE	08 57 38		1	16					
	ELR	ZNE	09 12 30		2	26					
ROX	ELQ	NE	09 12 00								

MAR 22	WEL	EL	Z	15 10 00							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 23	00 45 01.5	20.2S 176.5W	33KM	4.4	22

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	00 50 19								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 23	09 17 47.3	31.8S 179.5E	464KM	4.2	10

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ONE	S	E	09 19 22								
GNZ	P	Z	09 19 30								
	I	Z	32.0								
	S	Z	20 52								
KRP	P	Z	09 19 32.4								
	I	Z	33.4								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 23	22 41 15.8	17.6S 123.2E	33KM		50

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	22 50 13								
GNZ	EP	Z	22 50 22								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 25	11 33 48.4	19.7S 175.9W	170KM	4.6	23

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	P	Z	11 38 00.8								
	ES	Z	41 28								
KRP	P	Z	11 38 08								
WEL	ES	NE	11 42 38								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 25	15 32 26.0	20.1S 168.8E	33KM	4.7	22

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	15 36 45								
GNZ	EP	Z	15 37 00								
WEL	ELR	Z	15 43 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 26	02 04 20.2	11.2N 142.0E	33KM	4.9	60

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ES	Z	02 22 16		2	24					
	ELR	Z	33 15		13	24					
ROX	ELQ	ZNE	02 36 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 26	12 15 47.4	6.8S 129.3E	156KM	5.3	53

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	EP	Z	12 24 35								
WEL	ELR	Z	12 42 00								
KRP	P	Z	12 24 44								
GNZ	EP	Z	12 24 55								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 26	13 29 56.2	4.4S 104.7W	33KM	4.9	80

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ELR	ZNE	14 06 20								
ROX	ELR	ZNE	14 10 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAR 27	20 22 10.6	23.7S 179.9E	520KM	5.0	18

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ONE	P	E	20 25 02								
	S	E	27 23								
KRP	P	Z	20 25 17								
	I	Z	21								
	S	Z	27 54								
	I	Z	30 39								
	I	Z	45								

GNZ	EP	Z	20	25	19
	I	Z			21.5
	S	Z		27	50
	E	Z		30	40
	E	Z		31	29
	E	Z		33	13
TUA	EP	Z	20	25	20
	I	Z			22
	S	Z		27	55
	E	Z		31	37
	E	Z		33	14
COB	EP	E	20	25	23
	S	E		28	23
	E	E		34	14
TNZ	EP	Z	20	25	33
	I	Z			35
	ES	Z		28	23
WEL	EP	ZNE	20	25	48
	I	ZNE			50
	E	Z		26	40
	*SP	ZN		27	52
	S	ZNE		28	44
	E	NE		32	23
	E	ZNE		34	06
	ESCS	E		36	20
KAI	EP	X	20	26	08
	S	X		29	15
	E	X		34	34
GPZ	EP	N	20	26	15
	S	N		29	29
	E	N		34	49
ROX	P	Z	20	26	39
	E*SP	N		29	03
	ES	Z		30	18
MNW	P	Z	20	26	45.7
	S	Z		30	25

H M S	EPICENTRE	DEPTH	MAG
MAR 28 03 36 12.7	61.1N 147.6W	20KM	8.5

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
WEL	IP	Z	03	50	26	D	83	60						
	E	ZNE		51	24									
	PP	ZN		55	32		> 60	24	36	26				
	SKS	ZNE	04	01	08									
GNZ	E(P)	Z	03	50	30									
KRP	E(P)	Z	03	50	34									
	PP	Z		54	41									
MNW	EPP	Z	03	56	09									
	EPKKP	Z	04	06	11									
ROX	EP	N	03	50	52									
	E	ZNE		52	10		13	12	11	15	3	12		
	PP	ZN		56	08		35	15	40	23				
	SKS	E	04	01	14						33	32		
	SKKS	E		02	10						88	26		

H M S	EPICENTRE	DEPTH	MAG
MAR 28 09 52 55.7	59.7N 146.6W	30KM	5.5

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
ROX	ELQ	NE	10	47	00				6	26				
	ELR	ZNE		51	00		8	20	8	19	6	20		

H M S	EPICENTRE	DEPTH	MAG
MAR 28 10 35 38.9	57.2N 152.4W	33KM	6.0

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
WEL	ELR	NE	11	30	00									
ROX	ELR	ZNE	11	31	00						3	20		

H M S	EPICENTRE	DEPTH	MAG
MAR 28 11 30 09.8	0.5N 122.3E	140KM	5.8

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
MNW	P	Z	11	40	09	U								
ROX	EP	Z	11	40	14		3	1						7.1
	S	NE		48	58									
	ELQ	NE		55	50									
KRP	IP	Z	11	40	17.0	U								
	E*PP	Z			50									
CNZ	P	Z	11	40	21									
	E*PP	Z			59									
	PKPPKP	Z	12	09	22									
WEL	P	ZNE	11	40	23									
	*PP	Z			57									
	ELR	NE	12	00	00									
GNZ	P	Z	11	40	31									
	E*PP	Z		41	03									

H M S	EPICENTRE	DEPTH	MAG
MAR 28 12 20 49.8	56.5N 154.0W	25KM	6.1

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
WEL	ELR	NE	13	14	00									
ROX	ELR	ZNE	13	15	00									

H M S	EPICENTRE	DEPTH	MAG
MAR 28 14 49 13.7	60.4N 147.1W	10KM	5.8

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
WEL	ELR	NE	15	38	00									
ROX	ELQ	NE	15	42	00									
	ELR	ZNE		47	00		6	18	7	20	5	20		

H M S	EPICENTRE	DEPTH	MAG
MAR 28 20 29 08.6	59.8N 148.7W	40KM	5.8

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
WEL	ELR	Z	21	20	00									
ROX	ESKS	N	20	54	14				3	14				
	SKKS	E		56	04						6	18		
	PS	N		57	40				5	18				
	ELQ	NE	21	21	40		11	20	10	20	4	26		
	LR	ZN		26	00									
MAR 28 WEL	EL	Z	22	30	00		5	21						
ROX	EL	N	22	34	00									

H M S	EPICENTRE	DEPTH	MAG
MAR 29 01 29 33.7	57.5N 151.3W	20KM	5.6

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
WEL	ESS	Z	02	01	40									

H M S	EPICENTRE	DEPTH	MAG
MAR 29 06 04 44.5	56.1N 154.3W	30KM	5.6

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	DIST (DEG) WEL	MAG
WEL	SKS	Z	06	28	55		3	6						
	PS	Z		31	36		2	20						
	ESS	Z		37	00		2	28						
	LR	ZNE		52	30		9	28	5	28	4	26		
MAR 29 KRP	EP	Z	06	19	11									
	I	Z			19									
GNZ	P	Z	06	19	45									
MAR 29 WEL	ELR	Z	08	24	00									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 29	16 40 57.9	59.7N 147.0W	15KM	5.6						105
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL ELR	ZNE 17 30 00								
	ROX ELR	NE 17 35 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 29	17 53 02.2	59.9N 146.1W	15KM	5.0						104
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL ELR	Z 18 54 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 29	21 40 32.7	6.7S 155.1E	68KM	5.3						39
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 21 47 30.8								
	IPCP	Z 49 56.0								
	*PPCP	Z 50 06								
	CNZ P	Z 21 47 40								
	TUA P	Z 21 47 43								
	PCP	Z 58								
	GNZ P	Z 21 47 45.0								
	*PP	Z 59								
	E	Z 48 12								
	WEL SS	Z 21 56 44				3	20			
	LR	Z 58 21				7	23	5	20	
	MNW EP	Z 21 48 06								
	ROX ELQ	NE 21 58 00						5	34	10 40
	LR	ZNE 22 01 00				9	20	11	20	7 28

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 30	02 18 06.3	56.6N 152.9W	25KM	5.8						101
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EP	Z 02 32 08		3	6					7.3
	PP	Z 36 20		3	16					6.1
	SKS	Z 42 40		4	24					
	S	E 43 48						4	20	6.1
	PS	Z 44 59		5	24					
	ESS	Z 50 30		6	32					
	LR	ZNE 03 06 00		27	24	19	22	5	24	
	ROX SKS	N 02 43 04				7	20			
	(SKKS)	E 44 33						13	24	
	PS	N 46 08				8	20			
	SS	NE 51 44				7	20	4	28	
	ELQ	E 03 02 30						15	37	
	ELR	ZN 12 00		15	20	21	22			
MAR 30	GNZ P	Z 06 26 57								
	KRP EP	Z 06 26 58								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 30	07 09 34.0	59.9N 145.7W	15KM	5.6						106
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL ESS	Z 07 43 36		2	36					
	LR	Z 58 30		10	20	7	20	4	18	
	ROX ELR	ZNE 08 04 00		15	20	11	20			

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 30	13 03 34.9	56.5N 152.7W	20KM	5.3						101
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 13 51 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 30	16 09 28.4	56.6N 152.1W	25KM	5.5						101
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL ELR	Z 16 57 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 30	18 42 03.4	24.2S 176.4W	33KM	4.6						19
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL LR	ZNE 18 50 40								
	ROX ELQ	NE 18 54 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 31	00 14 11.7	45.3N 151.0E	60KM	5.3						89
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 00 26 51								
	WEL ESKS	Z 00 37 28								
	PS	Z 38 52				2	18			
	ELR	Z 55 00				5	24	3	18	4 20
	ROX S	NE 00 38 00						3	18	6.2
	ELR	NE 01 00 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 31	09 01 30.2	50.8N 130.2W	15KM	5.6						104
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL LR	ZNE 09 48 30								
	ROX ELR	ZNE 09 54 00								
MAR 31	WEL ELR	Z 12 41 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
MAR 31	17 04 39.0	17.7S 178.8W	540KM	4.4						24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP IP	Z 17 08 44.2	U							
	E	Z 10 02								
	GNZ P	Z 17 08 46								
	ES	Z 12 05								
	WEL P	ZNE 17 09 12.5								
	ROX P	Z 17 09 59								
	MNW P	Z 17 10 07								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 01	03 23 17.2	57.2N 151.3W	25KM	5.1						102
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 04 11 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 01	04 32 40.7	58.7N 150.1W	20KM	4.8						104
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL E(L)	Z 05 43 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 01	17 38 00.5	17.4S 168.9E	227KM	4.4						24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	TUA P	Z 17 42 45								
	GNZ EP	Z 17 42 45								
	CNZ E(P)	Z 17 42 46								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 02	01 11 54.7	5.9N 95.7E	132KM	5.2						86
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW EP	Z 01 24 02								
	EPP	Z 27 12								
	ROX E(P)	Z 01 24 06								
	ES	N 34 24								
	E	E 32								
	ESS	NE 40 00								
	EL	NE 47 00								
	EL	ZE 51 00						75	20	
	WEL EP	Z 01 24 21								
	EPP	Z 27 41								
	E(SKS)	ZE 34 43								
	E(S)	ZN 51								

		ESS	E	40 31									
		LQ	N	47 00									
		LR	ZN	53 00									
	CNZ	EP	Z	01 24 21									
	KRP	P	Z	01 24 23									
		EPP	Z	27 42									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 02	06 53 31.5		6.9S 125.5E		485KM	4.8							WEL 55
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	MNW	P	Z	07 02 04									
	KRP	EP	Z	07 02 16									
	CNZ	EP	Z	07 02 19									
	WEL	EP	Z	07 02 20									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 02	07 38 30.7		2.0N 125.6E		82KM	5.0							WEL 62
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	MNW	P	Z	07 48 33									
	KRP	EP	Z	07 48 37									
	WEL	EP	Z	07 48 43									
APR 02	KRP	EP?	Z	11 54 01									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 02	15 56 52.6		5.8N 125.8E		179KM	5.7							WEL 65
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	MNW	P	Z	16 07 05.5									
	KRP	EP	Z	16 07 06									
	ROX	EP	Z	16 07 10									
		E	N	23 00									
	CNZ	EP	Z	16 07 15									
	WEL	EP	Z	16 07 17									
		E(S)	ZE	16 00									
		ESS	E	20 00									
		EL	NE	25 00									
		L	Z	28 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 02	23 27 52.4		56.4S 25.1W		33KM	6.0							WEL 81
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	CNZ	E(P)	Z	23 40 17									
	KRP	EP	Z	23 40 21									
	WEL	MAX	Z	24 18 00									
	ROX	EL	N	24 14 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 03	04 12 41.9		4.0N 96.6E		70KM	5.8							WEL 84
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	MNW	EP	Z	04 24 43.5									
		E	Z	25 05									
	KRP	P	Z	04 25 05									
	ROX	E	Z	04 25 06									
	CNZ	IP	Z	04 25 06.5	U								
	WEL	EL	Z	04 55 00				2	24				
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 03	08 38 42.8		59.6N 144.7W		10KM	5.4							WEL 104
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL?	Z	09 36 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 03	08 47 34.8		27.9S 178.1W		33KM	4.8							WEL 69
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	08 50 23									

	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 03	09 04 33.5		4.9S 152.1E		82KM	4.8							WEL 42
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP?	Z	09 11 51									
		E	Z	55									
		E	Z	12 14									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 03	19 08 15.2		14.9S 167.1E		95KM	4.9							WEL 27
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	19 13 24	U								
	ROX	E(P)	Z	19 14 22									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 03	22 33 42.2		61.6N 147.6W		40KM	5.7							WEL 107
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	Z	23 23 00									
	ROX	EL	N	23 29 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 04	04 54 01.7		60.1N 146.7W		40KM	5.6							WEL 106
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	ZNE	05 42 00									
	ROX	EL	N	05 46 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 04	05 10 34.4		57.3N 149.4W		20KM	4.6							WEL 103
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	Z	06 04 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 04	06 10 30.2		59.8N 146.1W		33KM	3.7							WEL 106
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	Z	06 57 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 04	08 40 29.8		56.5N 152.6W		15KM	5.3							WEL 101
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	ROX	E	E	09 07 04									
		EL	E	26 00				2	20	1	20		
		EL	E	32 00									
	WEL	EL	ZE	09 27 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 04	09 10 55.1		56.9N 152.7W		15KM	5.9							WEL 102
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	E	09 53 24		4	24			2	24		
		EL	Z	56 00									
	ROX	EL	NE	09 56 00				2	22				
APR 04	ROX	MAX	N	11 03 00									
	WEL	MAX	Z	11 04 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 04	15 55 10.3		19.1S 169.4E		153KM	4.2							WEL 23
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	TNZ	E(P)	Z	15 59 38									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 04	17 46 08.6		56.3N 154.4W		25KM	5.7							WEL 101
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	ESKS	Z	18 10 39									
		ESP	Z	12 56									
		ESS	Z	18 00									
		EL	Z	32 00				17	21	11	21	5	21
	ROX	ESKS	N	18 10 57									
		E	E	12 30									

		ESP	N	13 56									
		ESS	NE	19 36									
		ESSS	NE	24 00									
		EL	E	30 00							7	19	5 19
		EL	ZNE	41 00									
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 04	18 18 01.7	19.7S 175.3W	57KM	4.8									WEL 23
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	TNZ E(P)	Z 18 22 48											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 04	17 59 43.3	56.4N 154.5W	25KM	5.5									WEL 111
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	WEL EMAX	ZE 18 50 00											
	ROX EMAX	N 18 50 00											
	EMAX	E 52 00											
APR 04	ROX MAX	N 20 06 00											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 04	21 38 14.0	10.5N 122.1E	33KM	5.1									WEL 71
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	KRP EP	Z 21 49 32											
	WEL EL	Z 22 13 00											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 04	22 16 54.5	59.4N 145.2W	10KM	5.1									WEL 134
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	WEL EL	Z 23 07 00											
	ROX E(L)	N 23 14 00											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 05	01 22 13.3	56.2N 153.5W	25KM	5.4									WEL 101
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	WEL ESP	Z 01 49 08											
	ESS	Z 55 00											
	EL	ZE 02 10 00			8	22					5	22	
	ROX E	E 01 48 37											
	ESP	N 50 00											
	ESS	NE 56 00											
	ELQ	E 02 07 00									4	26	
	EL	N 13 00									3	21	
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 05	02 36 10.8	60.1N 145.8W	15KM	4.9									WEL 104
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	ROX EL	E 03 27 00											
	E(L)	N 37 00											
	WEL E(L)	Z 03 36 00											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 05	11 18 38.9	41.9S 83.7W	33KM	5.3									WEL 71
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	KRP E?	Z 11 30 10											
	WEL EL	Z 11 51 00											
	ROX EL	NE 11 52 00											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 05	19 28 18.1	60.2N 146.7W	15KM	5.8									WEL 104
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	WEL E(L)	Z 20 19 00											
	ROX E(L)	N 20 26 00											

	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 06	01 22 44.2	23.4S 180.0E	568KM	4.5									WEL 18
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	MNW EP	Z 01 27 18.5											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 06	02 34 36.7	19.0S 175.5W	177KM	4.2									WEL 24
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	TNZ E?	Z 02 39 25											
APR 06	ROX EL	N 07 47 00											
	WEL E(L)	Z 07 52 00											
APR 06	WEL EL	ZNE 22 47 00											
	ROX EL	Z 22 50 00											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 06	22 57 53.3	57.1N 153.3W	15KM	4.2									WEL 102
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	WEL E(L)	Z 23 41 00											
	E(L)	Z 24 02 00											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 06	23 43 01.7	5.1S 154.0E	116KM	4.8									WEL 41
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	KRP EP	Z 23 50 12											
	E*PP	Z 35											
	TUA EP	Z 23 50 23.5											
	E*PP	Z 48											
	GNZ EP	Z 23 50 26											
	E*PP	Z 51											
	WEL EP	Z 23 50 32											
	ROX EP	Z 23 50 46											
	MNW EP	Z 23 50 44											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 07	01 43 28.7	58.5N 154.5W	30KM	5.1									WEL 103
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	WEL EL	Z 02 33 00											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 07	08 57 08.2	12.2S 167.1E	260KM	4.7									WEL 30
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	WEL EP	Z 09 02 52											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 07	13 18 18.9	0.1N 123.2E	150KM	6.3									WEL 62
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	MNW EP	Z 13 28 12											
	E*PP	Z 45											
	TNZ E(P)	Z 13 28 18											
	WEL EP	Z 13 28 25											
	TUA EP	Z 13 28 29.5											
	E*PP	Z 29 06											
	GNZ EP	Z 13 28 33											
	ROX E	Z 13 28 36											
	H M S	EPICENTRE	DEPTH	MAG									DIST (DEG)
APR 08	04 56 53.2	9.7N 125.6E	126KM	5.0									WEL 68
		H M S	DIR	AZ	TZ		AN	TN		AE	TE	MAG	
	KRP EP	Z 05 07 32											
	E	Z 09 04											
	MNW EP	Z 05 07 33											
	TUA EP	Z 05 07 41											

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 08	08 08 11.8	6.8S 68.9E	33KM	6.0						WEL 97
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX EL	NE 08 54 00								
	WEL E	Z 09 06 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 08	10 58 09.1	45.8N 150.8E	40KM	5.5						WEL 89
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP E?	Z 11 10 48								
	E?	Z 11 00								
	ROX ESKS	NE 11 22 24								
	EL	E 37 00				3	23	5	21	
	EL	N 40 00								
	WEL ESKS	N 11 21 30								
	ESP	Z 23 00								
	ESS	ZN 27 30								
	EL	ZE 35 00		6	22	4	22	6	22	
	EL	ZNE 40 00								
	E?	Z 12 11 06								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 08	17 00 28.0	31.5S 179.0W	33KM	5.5						WEL 11
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ONE E(P)	E 17 02 12								
	GNZ EP	Z 17 02 18								
	E	Z 20								
	E	Z 23								
	ES	Z 03 45								
	E	Z 49								
	KRP EP	Z 17 02 24								
	I	Z 25	D							
	TUA EP	Z 17 02 24								
	E	Z 26								
	ES	Z 03 54								
	TNZ EP	Z 17 02 42								
	WEL P	Z 17 02 57								
	ES	NE 04 52								
	COB ES	E 17 05 07								
	KAI ES	X 17 05 43								
	GPZ E(P)	N 17 03 31								
	ES	N 05 52								
APR 08	KRP IPKP	Z 19 50 24	U							
	GNZ PKP	Z 19 50 38.5								
	TUA PKP	Z 19 50 36.5								
	MNW EPKP	Z 19 50 44								
	GPZ E	N 19 50 46								
	ROX EPKP	Z 19 50 46								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 08	19 50 16.8	60.4N 145.9W	10KM	5.3						WEL 126
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 20 41 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 08	23 50 37.2	21.9S 178.2W	323KM	4.2						WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z 23 54 17								
	E?	Z 57 17								
	TNZ EP	Z 23 54 34								
	E	Z 57 05								
	E	Z 08								
	WEL EP	Z 23 54 49								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 09	04 15 23.0	13.5N 89.9W	89KM	5.0						WEL 103
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 05 03 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 09	21 54 42.1	18.5S 71.5W	39KM	5.2						WEL 95
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 22 38 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 10	01 18 00.2	58.4N 150.6W	15KM	5.5						WEL 103
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 01 57 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 10	04 44 08.0	15.7S 172.8W	32KM	4.2						WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z 04 49 24								
	KRP EP	Z 04 49 27								
	TUA E(P)	Z 04 49 29								
	MNW EP	Z 04 50 53								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 10	13 10 05.4	13.5N 144.9E	101KM	5.4						WEL 61
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 13 19 54								
	TUA E	Z 13 20 04								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 10	19 05 52.6	57.6N 148.2W	15KM	5.2						WEL 103
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 19 55 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 10	21 44 06.7	60.1N 153.7W	10KM	5.6						WEL 104
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 22 32 00								
APR 10	WEL EL	Z 00 05 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 11	01 04 30.2	29.0S 178.9W	302KM	5.3						WEL 13
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z 01 06 46								
	E	Z 08 31								
	ES	Z 31								
	KRP EP	Z 01 06 50								
	E	Z 53								
	E	Z 07 30								
	TUA E(P)	Z 01 06 53								
	E	Z 08 40								
	E(S)	Z 47								
	TNZ EP	Z 01 07 11								
	E	Z 09 24								
	WEL EP	Z 01 07 25								
	ES	ZNE 09 47								
	ROX EP	Z 01 08 37								
	ES	Z 11 47								
	E	NE 14 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 11	06 11 02.1	25.2N 124.4E	74KM	5.0						WEL 81
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 06 23 00								

APR 11 09 23 51.5 — EPICENTRE 56.4N 152.2W — DEPTH 33KM — MAG 4.6 — DIST (DEG) WEL [illegible]

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EL	Z	10 12 00								

APR 11 12 16 41.1 — EPICENTRE 56.6N 151.0W — DEPTH 20KM — MAG 4.8 — DIST (DEG) WEL [illegible]

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EL	Z	13 05 00								

APR 11 16 00 42.8 — EPICENTRE 40.5N 25.0W — DEPTH 33KM — MAG 5.1 — DIST (DEG) WEL [illegible]

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ROX	EPKP	Z	16 20 53								
KRP	EPKP	Z	16 21 07								
	E	Z	20								
WEL	EL	Z	17 15 00		0	22					
	EL	Z	26 00								

APR 12 01 24 31.2 — EPICENTRE 56.6N 152.2W — DEPTH 22KM — MAG 5.6 — DIST (DEG) WEL [illegible]

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	E(S)	E	01 50 04								
	ESP	Z	51 22								
	ESS	Z	57 00								
	L	NE	02 06 00		7	21	4	21	3	20	
	EL	ZNE	10 00								
ROX	ESKS	N	01 49 24								
	E	E	50 56								
	ESP	N	52 30								
	L	E	02 10 00				4	20	3	20	
	EL	N	15 00								

DATE	STN	PHASE	COMP	H M S	AZ	TZ	AN	TN	AE	TE
APR 12	ROX	EL?	N	03 33 00			3	19	1	19
	WEL	E(L)	Z	03 36 00	5	20	4	20	2	20

APR 12 06 00 46.4 — EPICENTRE 13.6S 166.0E — DEPTH 33KM — MAG 5.0 — DIST (DEG) WEL [illegible]

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
TNZ	E(P)	Z	06 06 26								
TUA	P	Z	06 06 27								
WEL	EL	ZE	06 15 00		1	28			2	20	
ROX	EP	Z	06 07 09								
	E	Z	26								
	EL	E	16 00						1	18	

APR 12 12 48 02.2 — EPICENTRE 56.6N 151.3W — DEPTH 33KM — MAG 5.1 — DIST (DEG) WEL [illegible]

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EL	Z	13 35 00		0	28					

APR 13 00 57 43.5 — EPICENTRE 0.1N 123.0E — DEPTH 97KM — MAG 5.4 — DIST (DEG) WEL [illegible]

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
TUA	EP	Z	01 08 00								

APR 13 03 02 46.3 — EPICENTRE 23.7S 179.0W — DEPTH 360KM — MAG 4.5 — DIST (DEG) WEL [illegible]

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP?	Z	03 06 02								
	E	Z	03.5								
	E	Z	06								
	E(S)	Z	08 47								
	E	Z	51								
KRP	P	Z	03 06 03	U							
TUA	EP	Z	03 06 03								
	E	Z	09								
	E(S)	Z	08 50								
	E	Z	09 02								
	E	Z	31								
WEL	EP	Z	03 06 37								
	E(S)	ZNE	09 43								

APR 13 06 23 34.1 — EPICENTRE 19.5S 177.7W — DEPTH 574KM — MAG 4.4 — DIST (DEG) WEL 23

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	06 27 24	U							
GNZ	EP	Z	06 27 25								
	ES	Z	30 31								
	E	Z	50								
TUA	EP	Z	06 27 26								
	ES	Z	30 29								
WEL	EP	Z	06 27 52								
ROX	EP	Z	06 28 40								

APR 13 08 30 03.6 — EPICENTRE 45.3N 18.1E — DEPTH 33KM — MAG 5.4 — DIST (DEG) WEL 163

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	E	Z	08 50 49								
	E	Z	51 23								
WEL	EL	Z	09 49 00								

APR 13 08 45 24.6 — EPICENTRE 22.3N 142.1E — DEPTH 309KM — MAG 5.1 — DIST (DEG) WEL 70

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	08 55 50	D							
TUA	EP	Z	08 55 57								
GNZ	EP	Z	08 55 59								
WEL	EP	Z	08 56 04								
ROX	EP	Z	08 56 15								

DATE	STN	PHASE	COMP	H M S
APR 13	WEL	I?	NE	10 15 30

APR 13 11 26 52.1 — EPICENTRE 6.9N 126.6E — DEPTH 110KM — MAG — DIST (DEG) WEL 65

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP?	Z	11 37 13								
TUA	EP	Z	11 37 22								

APR 13 12 25 36.0 — EPICENTRE 59.4N 143.9W — DEPTH 40KM — MAG 4.9 — DIST (DEG) WEL 106

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EL	NE	13 09 00		2	20			1	20	
	EL	ZNE	14 00								
ROX	EL	N	13 18 00						1	20	

APR 13 14 05 00.0 — EPICENTRE 57.6N 151.2W — DEPTH 25KM — MAG 5.5 — DIST (DEG) WEL 103

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	E	Z	14 19 24.5								
WEL	E(L)	ZE	15 03 00								

APR 13 16 14 06.3 — EPICENTRE 56.6N 152.1W — DEPTH 33KM — MAG 5.1 — DIST (DEG) WEL 101

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EL	Z	17 03 00								

APR 13 21 25 33.0 — EPICENTRE 57.5N 153.9W — DEPTH 30KM — MAG 5.5 — DIST (DEG) WEL 102

STN	PHASE	COMP	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EL	Z	22 14 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 13	21 43 16.5	59.4N 143.1W	33KM	5.1						WEL 104
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 22 36 00								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 14	01 04 28.8	49.4N 155.5E	60KM	5.2						WEL 93
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 01 17 17								
	WEL EL	Z 01 48 00		0	24					
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 14	02 28 25.2	15.8S 177.0W	362KM	4.1						WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 02 32 59								
	MNW P	Z 02 34 23	U							
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 14	05 01 59.1	41.0S 80.0E	33KM							WEL 68
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX EL	NE 05 28 00								
	WEL EL	Z 05 33 00		0	20					
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 14	08 58 41.9	17.5S 167.9E	33KM	4.6						WEL 79
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 09 03 28								
	TUA EP	Z 09 03 43								
	GNZ EP	Z 09 03 45								
	WEL EP?	Z 09 03 55								
	E	Z 04 02								
	E	E 08 16								
	EL	ZNE 09 00		6	15	8	15	9	19	
	ROX E(S)	E 09 09 13								
	ESS	N 10 30								
	EL	E 11 00				5	22	5	23	
	EL	ZN 13 00								
APR 14	KRP EP	Z 09 22 28								
APR 14	KRP EP	Z 09 25 01.5								
	GNZ EP?	Z 09 25 19								
	TUA E(P)	Z 09 25 20								
	WEL E(P)	Z 09 25 34								
APR 14	WEL EP?	Z 16 27 42								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 14	16 18 54.0	8.6S 117.3E	58KM	5.3						WEL 61
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW P	Z 16 28 34								
	ROX EP	Z 16 28 40								
	E	Z 29 02								
	E	Z 30								
	TNZ EP	Z 16 28 53								
	WEL EP	Z 16 28 55								
	EL	Z 45 00		0	22					
	KRP EP	Z 16 28 56								
	TUA EP	Z 16 29 05								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 14	22 46 25.3	19.8S 176.7W	235KM	4.3						WEL 31
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 22 50 30								
	TUA E(S)	Z 22 53 59								
	TNZ EP	Z 22 50 48								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 14	22 55 31.3	58.0N 152.6W	30KM	5.4						WEL 103
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL E(SSS)	Z 23 34 00								
	E(L)	Z 40 00		2	22					
	EL	Z 43 00								
	ROX EL	E 23 40 00				1	21			
	E(L)	NE 50 00								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 15	00 58 14.6	17.8S 178.3W	450KM	4.0						WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP E(P)	Z 01 02 30								
	TUA E	Z 01 03 29								
	WEL E?	Z 01 08 16								
	E(L)	Z 12 00		0	18					
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 15	15 30 47.1	56.3N 154.4W	35KM	5.5						WEL 101
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL E(SKS)	Z 15 55 12								
	ESP	Z 57 36								
	ESS	Z 16 03 00								
	ESSS	Z 07 00								
	E?	Z 15 00								
	EL	ZNE 18 00		7	21	8	20	2	20	
	ROX ESKS	N 15 55 54								
	E(S)	E 57 06								
	ESP	N 58 42								
	ESS	E 16 04 00								
	ESSS	E 09 00								
	EL	NE 16 00				2	21	3	21	
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 15	16 35 57.5	21.7N 88.0E	36KM	5.5						WEL 102
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 16 49 46								
	WEL E(L)	Z 17 29 00		1	19					
	ROX MAX	N 17 53 00								
APR 15	KRP EP	Z 18 00 31								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 15	21 35 18.2	19.7S 175.6W	172KM	4.2						WEL 23
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 21 39 37								
	E	Z 46								
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 16	01 04 34.5	37.0N 142.7E	38KM	5.1						WEL 83
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP E(P)	Z 01 16 45								
	WEL ESP	Z 01 28 00								
	ESS	Z 32 00								
	EL	Z 43 00								
	ROX MAX	E 01 58 00				1	23			
								1	19	
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
APR 16	02 35 48.9	21.5S 170.5E	110KM	4.6						WEL 20
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 02 39 41								
	GNZ P	Z 02 39 55								
	TUA EP	Z 02 39 56								
	WEL EP	Z 02 40 14								
	E(L)	Z 43 54								
	ROX EP	Z 02 40 54				2	19			
	E(*PP)	Z 41 20								

		EL	E	45 00									2 20
APR 16	WEL	E(L)	Z	07 10 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 16	11 45 36.9		23.8S 180.0E		530KM	4.5							WEL 11
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	GNZ	EP	Z	11 48 45									
		E	Z	47									
		E(S)	Z	51 19									
	KRP	EP	Z	11 48 46									
	TUA	E(P)	Z	11 48 50									
		E	Z	51 55									
	TNZ	E(P)	Z	11 49 03									
	WEL	ES	ZNE	11 52 13									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 16	13 43 08.9		52.1N 169.4W		33KM	4.9							WEL 91
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	KRP	EP	Z	13 56 09									
		E	Z	13									
	WEL	MAX	Z	14 38 00			1 18		1 18				
		MAX	N	39 00									
	ROX	MAX	N	14 39 00					1 18				
		MAX	N	45 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 16	14 05 14.9		7.0S 155.7E		78KM	5.4							WEL 21
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	KRP	P	Z	14 12 08	U								
		E*PP	Z	20									
		E(PCP)	Z	14 35									
		E(*PPCP)	Z	46									
	GNZ	P	Z	14 12 21									
		E*PP	Z	34									
	WEL	EP	Z	14 12 28									
		E(*PP)	Z	42									
			Z	17 04									
		E	ZN	18 30									
		EL	Z	23 00									
	MNW	EP	Z	14 12 43									
		E	Z	13 05									
	ROX	E(P)	Z	14 12 46									
		E	Z	15 01									
		EL	NE	22 00					2 21		2 20		
APR 16	WEL	EL	Z	16 07 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 16	19 26 57.4		56.4N 152.9W		30KM	5.5							WEL 10
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	WEL	EP	Z	19 40 48			1 18						
		EPP	Z	45 00			1 19						
		ESKS	ZN	51 18									
		ES	E	52 30									
		ESP	ZN	54 00									
		ESS	N	59 00									
		EL	NE	20 09 00			11 24		5 23		5 24		
		EL	ZNE	15 00									
	ROX	ESKS	N	19 51 50									
		E(S)	E	53 12							6 20		
		ESP	N	54 48					3 18				
		ESS	NE	20 00 30									
		ESSS	E	04 00									
		EL	NE	11 00					8 20		6 20		

	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 16	20 12 36.8		56.6N 152.8W		33KM	5.0							WEL 101
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	WEL	MAX	Z	21 49 00			5 20		4 20		2 20		
	ROX	MAX	E	21 48 00					2 19		1 19		
		MAX	N	50 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 17	02 58 27.0		36.7N 140.5E		68KM	4.9							WEL 84
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	KRP	E	Z	03 11 02									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 17	04 49 30.5		56.4N 152.9W		25KM	5.3							WEL 101
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	WEL	ESKS	Z	05 14 00									
		ESP	Z	16 30									
		ESS	Z	22 00									
		E(L)	Z	36 00			3 21						
		EL	Z	37 00									
	ROX	E(S)	E	05 16 00									
		ESP	N	17 30									
		ESS	N	23 00									
		ESSS	E	27 00									
		EL	E	34 30					3 20		1 20		
		EL	NE	41 00									
		EL	NE	44 30									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 17	06 00 00.2		6.6S 154.9E		85KM	5.4							WEL 39
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	KRP	IP	Z	06 06 58	U								
		EPCP	Z	09 21									
		E	Z	33									
		E?	Z	11 37									
		E	Z	13 05									
	TNZ	EP	Z	06 07 03									
		E(PCP)	Z	09 20									
		E	Z	35									
	TUA	EP	Z	06 07 10									
		E(PCP)	Z	09 24									
		E	Z	36									
		E	Z	13 06									
	GNZ	P	Z	06 07 11.5	U								
		E(*PP)	Z	26									
		E(S)	Z	13 02									
	WEL	EP	Z	06 07 18									
		E(SS)	ZNE	16 12									
		EL	Z	18 00					8 24				
	ROX	E(L)	NE	06 17 00									
		EL	NE	20 00									
	MNW	P	Z	06 07 31.5	U								
APR 17	ROX	EL	NE	07 11 00									
	WEL	MAX	Z	07 12 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 17	09 09 07.8		57.7N 151.4W		20KM	5.4							WEL 103
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	WEL	EL	Z	09 58 00									
	ROX	E(L)	NE	10 06 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 17	14 44 20.8		16.2S 167.7E		65KM	4.2							WEL 26
			H M S		DIR	AZ	TZ	AN	TN	AE	TE		MAG
	KRP	EP	Z	14 49 22									
	TUA	E(P)	Z	14 49 33									

	GNZ	E(P)	Z	14	49	35							
	WEL	EL	Z	14	56	30							
	ROX	EL	E	14	57	30							
	H	M S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 18	05	27 44.6	45.5N 151.1E			33KM	5.3						WEL 85
			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	E	Z	05	40	24							
		E	Z			44							
	WEL	ESP	Z	05	52	18							
		EL	Z	06	09	00		2	18	1	18		
	ROX	EL	NE	06	15	00							
	H	M S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 18	05	55 40.5	45.4N 151.5E			33KM	4.9						WEL 85
			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	MAX	Z	06	52	00							
	H	M S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 18	07	47 03.3	57.4N 149.8W			30KM	5.1						WEL 111
			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EL	Z	08	37	00							
	H	M S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 18	17	56 16.2	15.0S 174.3W			90KM	4.2						WEL 91
			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	18	01	29							
	MNW	EP	Z	18	02	54							
	H	M S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 18	20	08 17.7	56.1N 153.7W			15KM	4.9						WEL 111
			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EL	Z	20	55	00							
	ROX	ESS	E	20	42	42							
		E(L)	N	21	11	00				1	20		
APR 18	WEL	EL	Z	22	22	00							
	H	M S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 19	03	44 55.2	55.1S 128.5W			33KM	4.5						WEL 91
			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	03	52	29							
	WEL	ES	Z	03	58	06		1	35				
		EL	NE	04	01	00							
		EL	Z		03	00							
	ROX	ES	E	03	58	30						1	21
		E	NE	04	01	30							
		E	E		03	00							
	H	M S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 19	03	56 13.7	15.4S 173.7W			51KM	4.2						WEL 94
			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP	Z	04	01	28							
	KRP	P	Z	04	01	29							
	TUA	EP	Z	04	01	32							
	TNZ	EP	Z	04	01	45							
	WEL	E(P)	Z	04	02	00							
		EL	Z		10	00							
	ROX	EL	E	04	12	00							
	MNW	EP	Z	04	02	54							
	H	M S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 19	05	13 01.6	41.7S 83.9W			33KM	5.5						WEL 71
			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	05	24	26							
		E	Z			38							
		E	Z			59							
	WEL	E(S)	ZNE	05	33	34							

	EL	Z	04	01	00										
MNW	P	Z	03	41	42										
KAI	EP	X	03	41	45										
	E(S)	X		48	47										
	E	X			58										
ROX	EP	ZNE	03	41	48	DNW		10	4						7.1
	E	Z		42	08										
	ES	NE		49	00					8	10		9	10	6.6
	ESS	ZNE		53	00					25	20		43	21	
	EL	NE		55	00		179	20		70	19		211	20	
GPZ	EP?	N	03	41	50										
	E	N			52										
	E(S)	N		49	09										
WEL	IP	Z	03	41	50	D									
	E(S)	ZNE		48	54										
	ESS	ZNE		53	00										
	EL	ZNE		55	00		> 60	23		105	20		174	17	
TUA	EP	Z	03	41	52.5	U									
GNZ	EP	Z	03	41	56										
	E	Z		42	17										
	E	Z		45	48										
	E	Z		49	40										

	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 23	07	03	21.6	60.8S		19.8W	33KM	5.4						WEL 78
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	07	15	32							
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 23	10	32	47.9	6.6S		155.1E	60KM	5.3						WEL 39
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P		Z	10	39	46	U						
		EPCP		Z		42	11							
		E(*PPCP)		Z			21							
		E(SCP)		Z		45	55							
	TNZ	EP		Z	10	39	51							
	CNZ	P		Z	10	39	56	U						
		E		Z		40	00							
	TUA	EP		Z	10	39	59							
		EPCP		Z		42	13							
	GNZ	E(P)		Z	10	40	01							
	WEL	EL		Z	10	51	00							
	ROX	EL		N	10	54	00							
APR 23	KRP	EP		Z	13	23	01							
APR 23	KRP	EPKP		Z	14	43	23							
		E		Z			47							
		E		Z			59							
		E		Z		44	26							

	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 23	14	23	43.2	36.9N		37.9E	57KM	4.8						WEL 146
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EPKP		Z	14	43	23							
		E		Z		44	48							
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 23	21	08	42.0	52.7N		160.9E	33KM	4.8						WEL 94
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EL		Z	21	55	00							
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
APR 24	00	42	33.9	52.7N		160.9E	33KM	4.9						WEL 94
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	E(P)		Z	00	55	57							
APR 24	TNZ	E?		Z	01	12	38							

		E	Z		13 12								
	KRP	EP	Z	01	13 16								
		E	Z		59								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 24	03 18 16.3		20.1S 177.8W		393KM	3.7							WEL 22
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	03 22 08									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 24	03 51 05.0		59.5N 144.5W		33KM	5.2							WEL 104
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	Z	04 54 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 24	05 56 10.1		5.1S 144.2E		106KM	6.3							WEL 47
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	IP	Z	06 04 05	D								
		E	Z		20								
		E	Z		35								
		ESCP	Z		09 39								
		E(S)	Z		10 28								
	TNZ	EP	Z	06 04 07.5									
		E	Z		43								
	CNZ	EP	Z	06 04 12.5	D								
	WEL	IP	Z	06 04 18	D		13	12					11
		E	Z		47								
		E	Z		53								
		E(PP)	ZN		06 34								
		E	N		07 41								
		E	ZN		10 27								
		E	E		11 00								
		E	ZNE		14 30								
		MAX	ZNE		25 00			45	17	42	16	38	17
	TUA	EP	Z	06 04 18									
	GNZ	EP	Z	06 04 19									
		ESCP	Z		09 49								
		E(*SS)	Z		11 11								
		E	Z		22								
		ESCS	Z		14 09								
	MNW	P	Z	06 04 19.5									
		E	Z		59								
	ROX	EP	Z	06 04 25			5	6					
		E	Z		50		8	6	10	14	18	24	
		E(SCP)	Z		09 48								
		E	NE		11 00								
		MAX	NE		16 00				30	19	26	28	
APR 24	KRP	EP	Z	06 18 16									
		E	Z		25								
	ROX	E(P)	Z	06 19 10									
		E	Z		20								
	MNW	E?	Z	06 19 25									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 24	14 30 07.2		29.3N 130.1E		30KM	4.8							WEL 74
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	14 42 19									
	ROX	E(L)	E	15 05 00									
	WEL	ESS	Z	14 58 30									
		E(L)	Z	15 07 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 24	14 40 28.3		13.3N 88.8W		158KM	5.1							WEL 107
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	Z	15 28 00									
	ROX	EL	E	15 37 00									

		E(SP)	ZE		34 06								
		ESS	ZE		38 00								
		EL	ZNE		45 00			3	16				
	ROX	E	E	05	34 00								
		EL	ZNE		46 00			5	19	2	19	5	19
	MNW	E	Z	05	24 34								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 19	08 35 31.6		17.7S 167.8E		15KM	4.6							WEL 24
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	08 39 50									
		E	Z		55								
	WEL	EL	ZE	08 48 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 19	14 12 21.9		60.5S 58.3W		33KM	5.4							WEL 70
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	ROX	E?	Z	14 23 17									
		E	Z		38								
		E	E		32 18								
		E	E		36 36								
		EL	ZNE		40 00			7	17	6	17	7	19
	MNW	E(P)	Z	14	23 18								
		E	Z		39								
	WEL	EP	Z	14	23 36								
		ES	NE		32 36								
		E	Z		34 00								
		ESS	ZE		37 00								
		EL	ZNE		41 00			9	22	5	22		
	TUA	E(P)	Z	14	23 40								
	TNZ	E(P)	Z	14	23 43								
	KRP	E(P)	Z	14	23 48								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 19	21 34 16.5		7.3S 128.3E		130KM	5.1							WEL 53
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP?	Z	21 43 17									
	TUA	E(P)	Z	21 43 27									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 20	11 56 41.6		61.4N 147.3W		30KM	5.7							WEL 107
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	E(SP)	Z	12 24 30									
		EL	ZNE		45 00			4	21	2	21	1	21
	ROX	EL	NE	12	52 00								
APR 20	WEL	EL	Z	14	03 00								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 20	16 18 26.4		60.7N 145.3W		15KM	4.9							WEL 107
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	Z	17 10 00									
	ROX	E(L)	N	17 18 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 20	22 30 38.0		4.2S 102.1E		33KM	5.3							WEL 74
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	E(L)	Z	23 09 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
APR 21	05 01 35.7		61.5N 147.4W		40KM	5.4							WEL 107
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	Z	05 51 00									
	ROX	EMAX	N	06 02 00									
APR 21	KRP	EP	Z	20 07 29									
	TUA	EP	Z	20 07 41									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 22	19 37 53.2	16.1S 173.4W	33KM	5.0						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 19 43 02								
	GNZ E(P)	Z 19 43 04								
	TNZ EP?	Z 19 43 19								
	E	Z 25								
	WEL EL	ZE 19 51 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 22	20 00 22.8	15.5S 167.5E	123KM	5.0						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP IP	Z 20 05 23	U							
	E(*PP)	Z 49								
	EPCS	Z 12 34								
	TNZ P	Z 20 05 32	U							
	TUA EP	Z 20 05 33								
		Z 34	U							
	ES	Z 09 50								
	GNZ EP	Z 20 05 34								
	E(S)	Z 09 48								
	WEL EP	Z 20 05 49								
	ES	E 10 16								
	E(SS)	Z 11 00								
	ROX EP	Z 20 06 20	U							
	E?	Z 09 20								
	E(SS)	E 14 00								
	MAX	E 15 00								3 22
	MNW EP	Z 20 06 22.5								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 22	23 04 13.8	13.2S 167.1E	218KM	4.0						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 23 07 25	U							
	TUA EP	Z 23 09 35								
	GNZ EP	Z 23 09 38								
	WEL EP?	Z 23 09 50								
	ROX EP	Z 23 10 23								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 23	01 31 40.3	6.7S 155.0E	72KM	5.0						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 01 38 37.5	U							
	EPCP	Z 41 02								
	E(*PPCP)	Z 11								
	TUA EP	Z 01 38 50								
	E	Z 40 59								
	E(PCP)	Z 41 05								
	GNZ EP	Z 01 38 51								
	WEL EL	Z 01 50 00								
	ROX EL	N 01 54 00								
	MNW E(P)	Z 01 39 11								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 23	01 51 10.6	32.1N 138.7E	33KM	4.8						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 02 03 07								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 23	03 32 50.3	5.3S 134.0E	33KM	6.4						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	COB EP	E 03 41 41.5								
	ES	E 48 50								
	EL	E 58 00								
	TNZ EP	Z 03 41 42								
	KRP P	Z 03 41 42	D							
	E	Z 42 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 24	19 50 22.3	51.7N 176.9W	50KM	4.6						93
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL E(L)	Z 20 40 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 25	03 48 35.8	37.3S 94.5W	33KM							67
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL E?	Z 04 10 36								
	EL	Z 19 00		1	20					
APR 25	KRP EP	Z 05 41 27								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 25	05 36 42.2	6.7S 155.0E	72KM	5.1						39
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 05 43 39								
	E(PCP)	Z 46 03								
	E	Z 14								
	E(PCS)	Z 49 47								
	WEL EL	Z 05 55 00								
	ROX EL	N 05 58 00								
APR 25	KRP EP	Z 06 35 25								
	E	Z 28								
	TNZ E	Z 06 35 47								
	WEL EL	Z 06 43 00								
APR 25	KRP EP	Z 07 22 49								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 25	18 37 58.1	24.4N 125.3E	33KM	5.3						80
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP?	Z 18 49 55								
	E	Z 50 02								
	E	Z 26								
	ONE E(P)	E 18 49 59								
	GNZ EP	Z 18 50 03								
	WEL L	Z 19 19 00								
	ROX EP?	Z 19 50 04								
	E	Z 06								
	MNW E(P)	Z 19 50 03								
APR 25	KRP EP	Z 23 31 08								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 26	13 59 27.7	5.8S 105.0E	90KM	5.6						71
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX E(P)	Z 14 10 18								
	KRP EP	Z 14 10 38								
	GNZ EP	Z 14 10 49								
	WEL EL	Z 14 33 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL
APR 26	14 52 07.6	20.6S 178.0W	490KM	5.1						22
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 14 55 48								
	E	Z 50								
	E(S)	Z 59 09								
	GNZ EP	Z 14 55 51								
	E	Z 58 58								
	E(S)	Z 59 03								
	ESCS	Z 15 06 29								
	TUA EP	Z 14 55 52								
	E	Z 58 58								
	E(S)	Z 59 08								
	ESCS	Z 15 06 26								

	TNZ	EP	Z	14	56	05								
		E?	Z	15	06	03								
	WEL	EP	Z	14	56	25								
		ES	ZNE		59	42								
	ROX	EP	Z	14	57	10								
	MNW	EP	Z	14	57	18								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 14
APR 26	22	17	02.2	28.1S	178.2W	37KM	4.1							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	22	19	53								
	WEL	EL	Z	22	24	00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 77
APR 26	22	34	48.6	60.4S	24.6W	33KM	4.8							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	22	46	58								
	WEL	EL	Z	23	14	00								
	ROX	EL	NE	23	27	00								
APR 26	KRP	EP	Z	23	36	44								
		E	Z			50								
	WEL	EL	Z	23	41	00								
	ROX	EL	NE	23	44	00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 81
APR 27	01	37	12.1	0.3S	98.1E	33KM	5.3							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP?	Z	01	49	18								
		E	Z			23								
		E	Z			32								
	WEL	EL	Z	02	18	00								
	ROX	EL	E	02	22	00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 24
APR 27	06	44	25.1	60.1S	151.0E	33KM	5.0							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX	E	Z	06	48	00.5								
		EP	ZNE			39	N	14	7	14	9	6	9	6.2
		ES	NE		52	03				25	26	64	20	6.3
		EL	ZN		53	00		129	16	123	17			
	MNW	EP	Z	06	48	28								
		E	Z			39								
	KRP	E	Z	06	49	03								
		E	Z			19								
		EP?	Z			59								
		EL	Z		58	00								
	WEL	IP	ZNE	06	49	39	UNE	9	8	3	8	3	8	6.1
		E	ZNE			50								
		ES	NE		54	00								
		E(SS)	ZE			48								
		EL	ZN		55	30		> 60	20	171	20	63	20	

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 22
APR 27	14	36	18.2	19.8S	170.1E	274KM								
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP?	Z	14	42	07								
		E	Z			09								
		E	Z			10								
		E	Z			12								
	TUA	EP	Z	14	42	11.5								
	GNZ	EP	Z	14	42	16								
		E	Z			42								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 30
APR 28	14	55	25.5	11.9S	166.2E	42KM	4.2							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP?	Z	15	01	10								
		E	Z			30								
	WEL	E?	Z	15	01	44								
		E?	Z		09	30								
		EL	Z		12	00			1	18				
	GPZ	E	N	15	01	57								
	ROX	EP	Z	15	02	03								
		MAX	E		14	00						1	18	

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 30
APR 28	15	11	30.4	12.3S	166.1E	72KM								
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX	EP?	Z	15	18	02								
		E	Z			07								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 97
APR 28	19	33	33.5	16.6S	70.0W	116KM	4.2							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	E(L)	Z	20	41	00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 38
APR 29	07	21	30.2	7.2S	155.7E	78KM	5.2							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	E(P)	Z	07	28	22								
	GNZ	E(P)	Z	07	28	37								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 80
APR 29	17	37	43.1	58.2S	15.7W	33KM	5.6							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP?	Z	17	50	04								
		E	Z			09								
		E	Z			19								
APR 29	GNZ	EP	Z	18	58	22.5								
		E	Z			36								
		E	Z			45								
	KRP	EP	Z	18	58	29								
		E	Z		59	11								
	TUA	E(P)	Z	18	58	31								
	WEL	E(L)	Z	19	02	18								
APR 29	GNZ	EP	Z	19	10	13								
		E	Z			33								
	KRP	EP	Z	19	10	19								
	TUA	EP	Z	19	10	19								
		E	Z			27								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 27
APR 30	03	41	42.3	15.5S	174.7W	224KM	4.2							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	03	46	39								
	GNZ	EP	Z	03	46	39								
	MNW	EP	Z	03	48	04								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 22
APR 30	04	49	48.0	19.7S	177.8W	339KM	4.0							
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	04	53	48								
	GNZ	EP	Z	04	53	51								
		ES	Z		57	05								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
APR 30	08 06 23.5	56.2S 27.6W	88KM	4.9					WEL	81
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP	EP?	Z 08 18 42								
	E	Z 45								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
APR 30	16 03 31.4	4.6S 153.2E	78KM	5.2					WEL	41
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP	EP	Z 16 10 54								
	E(*PP)	Z 11 06								
	EPCP	Z 13 19								
	E(SCP)	Z 16 47								
	E(PCS)	Z 17 10								
TUA	EP	Z 16 11 03								
	E	Z 24								
GNZ	EP	Z 16 11 06								
	E	Z 27								
WEL	E(S)	Z 16 17 12								
	ESS	Z 20 00								
	EL	Z 23 00				16	24			
	E	Z 17 11 11								
	E	Z 26								
MNW	EP?	Z 16 11 23								
	E	Z 25								
	E	Z 41								
ROX	EP	Z 16 11 32								
	E	Z 49								
	ES	N 17 46								
	ESS	NE 21 00								
	EL	NE 24 00				17	30	10 32		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
APR 30	21 37 04.3	12.5S 165.1E	33KM	4.0					WEL	33
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
WEL	EL	Z 21 54 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
MAY 01	06 01 55.4	60.5N 145.6W	20KM	5.4					WEL	134
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
WEL	ELR	Z 06 52 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
MAY 01	16 06 12.0	14.3S 167.1E	95KM						WEL	39
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP	EP	Z 16 11 24								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
MAY 01	23 47 35.3	32.3S 179.5W	33KM	4.8					WEL	13
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
GNZ	EP	Z 23 49 09								
KRP	EP	Z 23 49 17								
WEL	ES	NE 23 51 46								
	LR	ZNE 53 12				5	16	7 20	3 16	
ROX	EL Q	NE 23 56 42								
	LR	ZNE 57 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
MAY 02	10 56 00.2	14.9S 167.3E	108KM	4.0					WEL	37
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP	P	Z 11 01 08								
GNZ	EP	Z 11 01 21								
MAY 02 WEL	EL	Z 12 03 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
MAY 02	16 11 00.2	45.5N 150.3E	35KM	5.7					WEL	89
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP	EP	Z 16 23 38								
WEL	P	Z 16 23 52								
	EPP	Z 27 36		2	20					6.2
	SKS	ZNE 34 16		4	20	9	20	7 12		
	PS	ZNE 35 50		8	18	7	26	3 30		
	SS	ZN 40 33		9	28	10	24			
	LQ	E 48 00						13 44		
	ELR	ZNE 51 30		17	24	8	24	8 24		
ROX	SKS	NE 16 34 40				4	14	2 15		
	IS	ZNE 35 16				12	15	9 12		6.9
	ELQ	E 50 00						10 30		
	LR	ZNE 57 00		12	21	13	22	12 22		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
MAY 02	16 33 47.9	27.3S 178.9W	369KM	4.5					WEL	15
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
GNZ	EP	Z 16 36 22								
	ES	Z 38 26								
KRP	P	Z 16 36 27.0								
WEL	S	ZNE 16 39 38								
MAY 02 KRP	EP	Z 23 31 55								
	E	Z 32 46								
	I	Z 33 09								
MAY 03 WEL	EL	Z 13 50 00								
MAY 04 WEL	EL	Z 04 30 00								
MAY 04 WEL	EL	Z 12 27 00								
MAY 04 KRP	P	Z 15 44 13								
	E	Z 42								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
MAY 04	17 05 19.8	55.8S 4.4W	33KM	5.4					WEL	83
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP	EP	Z 17 18 02								
ROX	ELQ	E 17 38 00								
WEL	ELR	Z 17 45 00								
MAY 04 ROX	ELQ	ZNE 20 56 00								
WEL	ELR	Z 20 57 00								
MAY 04 ROX	ELQ	NE 21 28 00								
WEL	ELR	Z 21 29 36								
MAY 04 KRP	E	Z 21 52 08								
GNZ	E	Z 21 52 08								
	E	Z 15								
TUA	E	Z 21 51 51								
TNZ	E	Z 21 51 59								
WEL	ES	NE 21 52 00								
MAY 04 TUA	E	Z 22 18 11								
TNZ	E	Z 22 18 21								
	I	Z 27								
GNZ	E	Z 22 18 23								
	E	Z 45								
KRP	E	Z 22 18 26								
	E	Z 36								
WEL	S	ZNE 22 18 25								
COB	ES	E 22 19 02								
GPZ	ES	N 22 19 26								

MAY 04 WEL ELR Z 23 12 44

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 05	08 44 59.1	9.0S 156.6E	33KM	5.1	WEL 36

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	08 51 37								
WEL	ELR	Z	09 02 00								
ROX	ELR	ZNE	09 04 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 05	11 12 52.4	55.8S 4.3W	33KM		WEL 83

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ELR	Z	11 53 00								

MAY 05 WEL EL Z 16 32 00

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 06	04 27 02.4	60.7S 25.2W	33KM		WEL 77

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ELR	Z	05 07 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 06	08 10 47.5	11.1S 162.2E	40KM	5.1	WEL 32

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	P	Z	08 17 12		2	8					6.1
	EPP	ZN	18 22		2	15					5.7
	S	NE	22 20						3	8	6.1
	LQ	NE	24 24				10	34	13	36	
	LR	ZN	26 04		16	16	18	16			
ROX	S	NE	08 23 06				4	20	4	28	5.1
	ELQ	E	26 02						4	22	
	MAX	ZNE	32 00		11	16	10	15	17	14	

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 06	15 26 35.5	56.7N 152.1W	15KM	5.4	WEL 101

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ELR	Z	16 13 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 07	00 34 57.2	18.2S 176.6W	300KM	5.4	WEL 24

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	00 39 16								
GNZ	P	Z	00 39 18								
	ES	Z	42 55								
MNW	P	Z	00 40 42								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 07	04 02 28.7	51.6N 177.3W	25KM	5.0	WEL 93

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ELR	Z	04 49 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 07	05 45 29.5	4.0S 34.9E	33KM	6.4	WEL 122

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ROX	PS	ZNE	06 15 05				4	18	6	18	
	LQ	NE	40 00				13	30	12	33	
	MAX	ZNE	43 00		18	21	17	21	15	22	
WEL	PKP	Z	06 04 23								6.1
	PP	Z	05 50		1	18					
	ESKS	ZNE	11 20						2	20	
	PS	ZNE	15 50		7	20	3	16			
	SS	Z	22 00		2	24			5	34	
	ESSS	ZE	26 38		6	44			11	40	
	LQ	NE	36 00				16	48	16	32	
	LR	ZNE	42 00		31	23	38	23			
KRP	EPKP	Z	06 04 28								
GNZ	PKP	Z	06 04 31								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 07	07 58 14.3	40.4N 139.0E	33KM	6.2	WEL 88

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	08 10 48.0								
	I	Z	55								
CNZ	EP	Z	08 10 53								
GNZ	E(P)	Z	08 10 54								
WEL	IP	ZNE	08 11 00	U	13	9					7.2
	PP	Z	14 26		10	13					7.1
	SKS	ZE	21 27								
	S	ZNE	42		5	20	20	16	7	16	6.8
	PS	ZNE	22 36		9	16	15	25	9	18	
	IPPS	ZN	23 16		16	42	31	48			
	SS	ZNE	27 44		13	24	27	28	14	28	
	SSS	ZNE	30 44				22	26	8	24	
	LQ	NE	35 00				62	48	56	44	
	LR	ZN	38 30	>	67	34	77	38			
MNW	EP	Z	08 11 09								
ROX	EP	ZNE	08 11 11		12	6					7.4
	S	NE	22 06				11	16	6	11	6.8
	PS	NE	23 11				15	19	10	17	
	ESS	NE	28 00				21	30			
	ELQ	ZNE	35 00		43	26	33	22	37	27	
MAY 07	KRP P	Z	08 33 46								
	MNW P	Z	08 34 08								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 07	11 11 04.9	30.6N 137.7E	469KM	5.1	WEL 79

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	11 22 09								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 07	20 12 49.3	40.5N 139.0E	33KM	5.9	WEL 88

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	20 25 24								
WEL	P	Z	20 25 36		3	8					6.6
	S	ZNE	36 23		1	20	5	20			6.3
	PS	Z	37 18		2	14					
	I	Z	56		4	40					
	ESS	ZN	42 00		3	20	5	20			
	LQ	NE	49 00				14	44	10	44	
	LR	ZN	53 30		20	36	16	32			
MNW	EP	Z	20 25 48								
ROX	EP	Z	20 25 48								
	ESKS	N	36 15								
	S	NE	50				2	12	2	10	6.3
	PS	NE	37 46				2	14			
	ELQ	NE	54 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAY 07	23 12 21.3	32.9S 178.3W	33KM	4.4	WEL 10

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	23 13 55								
	I	Z	14 05								
	S	Z	15 08								
KRP	EP	Z	23 14 04								
	E	Z	14								
ONE	EP	E	23 14 06								
	E	E	14								
WEL	S	ZNE	23 16 27								
	LR	ZNE	18 00		4	19	3	18	3	18	
ROX	ELQ	NE	23 20 00								
MAY 08	KRP EP	Z	02 49 21								
	WEL S	NE	02 51 32								
	ELR	Z	53 00		1	18					

MAY 08	KRP	EP	Z	02	53	16							
		E	Z			21							
	WEL	S	NE	02	55	36							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 08	03	35	59.9	32.7S	178.3W		40KM	4.5					WEL 11
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ	EP	Z	03	37	34							
		E	Z			43							
		ES	Z		38	45							
	ONE	EP	E	03	37	44							
	KRP	EP	Z	03	37	45							
		E	Z			51							
	WEL	S	ZNE	03	40	05							
		ELR	ZNE		41	32		3	18	2	16	3 20	
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 08	03	57	50.1	33.1S	178.3W		47KM	4.3					WEL 11
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	03	59	00							
		E	Z			11							
	GNZ	P	Z	03	59	22							
		ES	Z	04	00	36							
	ONE	EP	E	03	59	33							
	WEL	S	ZNE	04	01	53							
		LR	ZNE		03	00		2	20				
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 08	04	10	31.9	32.8S	178.4W		33KM	4.0					WEL 11
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ	EP	Z	04	12	06							
	KRP	EP	Z	04	12	15							
		E	Z			28							
	ONE	EP	E	04	12	18							
	WEL	S	ZNE	04	14	39							
		ELR	ZNE		16	00		2	18				
MAY 08	GNZ	EP	Z	05	11	28							
	KRP	EP	Z	05	11	35							
		E	Z			50							
	ONE	E(P)	E	05	11	52							
	WEL	S	ZNE	05	14	00							
		ELR	Z		15	30		1	18				
MAY 08	KRP	EP	Z	10	31	54							
		E	Z		32	01							
	GNZ	EP	Z	10	31	56							
		E(S)	Z		32	56							
	WEL	ES	ZNE	10	34	16							
		ELR	Z		36	00		1	16				
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 08	16	21	49.8	56.7N	154.0W		25KM	5.3					WEL 10
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL	SS	Z	16	54	30		1	28				
		ELR	ZNE	17	09	00		4	26	2	26	2 24	
	ROX	ELR	NE	17	16	00							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 08	23	40	44.1	52.2N	169.5W		20KM	5.2					WEL H
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	23	53	46							
	WEL	ELR	Z	00	24	00							
	ROX	ELR	N	00	34	00							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 09	02	02	28.8	52.2N	169.6W		25KM	5.1					WEL 94
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	02	15	30							
	WEL	ELR	Z	02	47	00							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 09	12	13	04.9	21.6S	174.6W		33KM	4.5					WEL 22
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	12	17	15							
	WEL	ELR	Z	12	26	00							
	MNW	EP	Z	12	18	57							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 09	13	48	05.3	8.1N	123.2E		60KM	5.7					WEL 68
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	13	58	59							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 09	15	10	12.1	40.7N	139.0E		25KM	5.1					WEL 88
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	15	22	45							
MAY 09	WEL	EL	Z	17	21	00							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 09	18	16	17.5	13.7S	166.6E		41KM	5.0					WEL 28
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	18	21	42							
		E	Z			44							
		I	Z		22	01							
	ROX	ELQ	NE	18	30	00							
	WEL	LR	ZNE	18	30	12							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 09	21	07	41.6	9.2 S	156.7E		24KM	5.4					WEL 36
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	P	Z	21	14	21.0							
		I	Z			26.5							
		PCP	Z		17	01							
		E	Z			07							
	ROX	ELQ	NE	21	24	00							
	WEL	LR	Z	21	24	30							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 10	05	39	42.6	29.0N	141.5E		62KM	5.3					WEL 76
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	P	Z	05	51	13							
	WEL	ELR	Z	06	16	00							
MAY 10	GNZ	EP	Z	07	54	06							
		E	Z			33							
	TUA	P	Z	07	54	13							
		E	Z			22							
		E	Z		55	03							
	KRP	P	Z	07	54	20							
	ONE	E	E	07	54	29							
	WEL	ES	NE	07	56	12							
	QPZ	ES	N	07	57	17							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 10	06	27	45.6	4.6S	153.2E		77KM	4.6					WEL 41
				H	M	S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	P	Z	06	35	07							
		E*PP	Z			22							
	GNZ	EP	Z	06	35	21							
		E*PP	Z			36							

	MNW	P	Z	06	35	38							
	WEL	EP	Z	06	35	39							
		EL	Z		47	20			3	30			
	ROX	ELQ	NE	06	49	00							
MAY 10	GNZ	EP	Z	14	38	52							
		E	Z	15	25	04							
	TUA	EP	Z	14	38	59							
		E	Z		40	19							
	KRP	P	Z	14	39	05							
		I	Z			23							
	ONE	EP	E	14	39	06							
	WEL	S	ZNE	14	41	25							
		ELQ	E		42	28							
		ELR	Z			52			2	18			
	KAI	ES	X	14	42	31							
	GPZ	ES	N	14	42	31							
MAY 11	GNZ	P	Z	00	11	09							
	ONE	EP	E	00	11	15							
	KRP	EP	Z	00	11	19							
		E	Z			30							
		I	Z			38							
	WEL	S	ZNE	00	13	40							
		ELR	Z		15	00			2	12			

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 11	02 52 55.6	21.2S 179.0W	553KM	3.6					WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP P		Z 02 56 27							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 11	05 29 16.6	24.6S 179.9E	515 KM	4.8					WEL 17
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP		Z 05 32 14							
I		Z 17.3							
WEL S		ZNE 05 35 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 11	14 39 04.4	22.5S 175.8W	50KM	5.3					WEL 20
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP		Z 14 42 56							
WEL ES		ZNE 14 47 06							
ELR		Z 49 52		4	20				
MNW EP		Z 14 44 38							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 11	14 57 16.6	4.3N 127.9E	60KM	5.7					WEL 82
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP P		Z 15 07 25.5							
MNW P		Z 15 07 25.7							
ROX EP		Z 15 07 30							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 11	20 38 11.5	17.1S 174.4W	104KM	4.2					WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ P		Z 20 43 05							
KRP P		Z 20 43 05.2							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 12	01 37 59.5	26.2S 178.3E	607KM	4.0					WEL 15
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP P		Z 01 40 37.0							
GNZ P		Z 01 40 39.0							
S		Z 42 56							
CNZ P		Z 01 40 52							
WEL P		ZNE 01 41 09							
ROX EP		Z 01 41 57							

	MNW	P	Z	01	42	04.8							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 12	10 02 27.1	19.9S 173.9W	33KM	5.1					WEL 23
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP		Z 10 07 00							
GNZ EP		Z 10 07 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 12	18 16 41.9	56.6N 152.4W	10KM	5.3					WEL 101
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL LR		Z 19 03 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 12	18 17 07.7	19.9S 173.9W	33KM	5.5					WEL 23
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ EP		Z 18 21 40							
KRP P		Z 18 21 41							
WEL ELR		Z 18 31 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 13	00 07 01.8	14.8S 176.7W	33KM	4.7					WEL 27
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP		Z 00 12 13							
WEL ELR		Z 00 19 00							
ROX ELQ		NE 00 21 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 13	05 25 26.1	32.8S 178.3W	33KM	5.3					WEL 10
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ EP		Z 05 26 59							
E		Z 27 01							
E		Z 14							
ES		Z 28 16							
ONE EP		E 05 27 08							
E		E 21							
E		E 28							
KRP EP		Z 05 27 11							
I		Z 23							
WEL EP		Z 05 27 54			13	38			
E		ZNE 28 28							
S		ZNE 29 32							
LR		ZN 30 00			> 65	16			
ROX EP		Z 05 29 12							
E		NE 32 28						8	16
LQ		NE 33 00					51	22 108	25
LR		Z 35 00			75	20			
MNW EP		Z 05 29 20							
MAY 13 GNZ P		Z 07 29 08							
I		Z 28							
S		Z 30 21							
KRP EP		Z 07 29 16							
E		Z 30							
ONE EP		E 07 29 19							
WEL S		NE 07 31 41							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 13	08 11 00.3	33.1S 178.0W	15KM	4.4					WEL 10
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ EP		Z 08 12 35							
E		Z 37							
E		Z 45							
ES		Z 13 48							
KRP EP		Z 08 12 45							
E		Z 55							
ONE EP		E 08 12 49							
WEL ES		NE 08 15 09							

MAY 13	GNZ	EP		Z	08	29	45							
		ES		Z		31	02							
	ONE	EP		E	08	30	02							
	KRP	EP		Z	08	30	08							
		E		Z			20							
MAY 13	ONE	EP		E	09	52	29							
	GNZ	EP		Z	09	52	14							
		ES		Z		53	30							
	KRP	EP		Z	09	52	19							

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 20
MAY 13	11	06	16.4	21.8S	179.6W	578KM	4.6						
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP		Z	11	09	41							
MAY 13	GPZ	EP		N	11	27	54							
		E		N		28	35							
		S		N		29	12							
	KRP	EP		Z	11	28	06							
		E		Z			16							
	ONE	EP		E	11	28	07							
	WEL	S		NE	11	30	26							
		ELR		Z		32	00		2	20				
MAY 13	GNZ	EP		Z	15	19	52							
		E		Z		21	10							
	ONE	EP		E	15	20	01							
	KRP	EP		Z	15	20	05							
		E		Z			17							
	WEL	S		NE	15	22	26							
MAY 13	GNZ	EP		Z	16	52	03							
		E		Z			14							
		ES		Z		53	18							
	ONE	EP		E	16	52	10							
		E		E			17							
	KRP	EP		Z	16	52	14							
		E		Z			26							
	WEL	S		ZNE	16	54	36							
MAY 13	ONE	EP		E	16	54	29							
	KRP	EP		Z	16	54	44							
	WEL	S		NE	16	56	56							

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 10
MAY 13	16	42	48.3	32.7S	178.6W	33KM	5.1						
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP		Z	16	44	22							
		I		Z			31							
		E		Z		45	39							
	KRP	P		Z	16	44	29							
	CNZ	P		Z	16	44	32							
		I		Z			44							
	WEL	S		ZNE	16	46	53							
		LR		Z		48	00		15	20				
	MNW	EP		Z	16	46	43							
	ROX	LQ		NE	16	51	00							
MAY 13	GNZ	EP		Z	17	34	39							
		E		Z			45							
		ES		Z		35	55							
	ONE	EP		E	17	34	52							
	KRP	EP		Z	17	34	55							
		E		Z		35	06							
	WEL	S		ZNE	17	37	13							

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 10
MAY 13	20	37	53.8	32.4S	178.3W	70KM	4.9						
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP		Z	20	39	27							
		E		Z			31							
		E		Z		40	38							
	ONE	EP		E	20	39	34							
		E		E			38							
	KRP	EP		Z	20	39	37							
		E		Z			49							
	WEL	S		ZNE	20	42	04							
		ELR		ZNE		43	43			20	16			
	ROX	EP		Z	20	41	37							
		ELQ		NE		46	30					6	22	9 22
	MNW	EP		Z	20	41	48							
MAY 13	GNZ	EP		Z	20	44	35							
		E		Z		45	48							
	WEL	S		ZNE	20	47	07							
MAY 13	GNZ	EP		Z	22	38	09							
	ONE	E(P)		E	22	38	17							
	KRP	EP		Z	22	38	20							

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 10
MAY 14	00	52	09.8	33.3S	178.3W	33KM	4.5						
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP		Z	00	53	45							
		E		Z			55							
	KRP	EP		Z	00	54	00							
	ONE	EP		E	00	54	07							
	WEL	ES		NE	00	56	18							

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 10
MAY 14	01	05	47.6	32.9S	178.8W	309KM	4.6						
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP		Z	01	06	52							
		ES		Z		08	06							
	KRP	EP		Z	01	06	58							
		E		Z		07	13							
	ONE	EP		E	01	07	01							
		E		E			11							
	WEL	S		ZNE	01	09	24							
		LR		ZNE		11	12			7	18			

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG) WEL 42
MAY 14	02	30	32.2	4.5S	152.9E	32KM	4.9						
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	IP		Z	02	38	00.2							
		PCP		Z		40	08							
	GNZ	P		Z	02	38	14							
	WEL	P		Z	02	38	20							
		ELR		Z		51	00							
	MNW	EP		Z	02	38	32							
MAY 14	GNZ	EP		Z	06	09	17							
		E		Z		10	35							
MAY 14	GNZ	EP		Z	12	25	37							
		E		Z		26	50							
	KRP	EP		Z	12	25	48							
		E		Z		26	00							
	ONE	EP		E	12	25	49							
	WEL	ES		NE	12	28	09							

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL	AE	TE	MAG
MAY 14				13	23	29.0	32.5S 178.2W	29KM	4.4						10			
	GNZ	EP	Z	13	25	07												
		E	Z			09												
		I	Z			36												
		S	Z		26	31												
	ONE	EP	E	13	25	16												
	KRP	EP	Z	13	25	18												
		E	Z			31												
	WEL	S	ZNE	13	27	45												
		ELR	Z		29	00												

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL	AE	TE	MAG
MAY 14				20	01	01.0	21.3S 179.3W	606KM	4.7						21			
	GNZ	P	Z	20	04	22												
		ES	Z		07	18												
	KRP	P	Z	20	04	30												
	MNW	P	Z	20	05	54.5												
MAY 15	GNZ	P	Z	07	24	07												
MAY 15	GNZ	P	Z	10	17	19.8												

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL	AE	TE	MAG
MAY 15				10	50	20.6	3.5S 149.1E	44KM	4.7						44			
	WEL	ES	ZNE	11	05	04					2	16	2	10		4	10	5.9
		LQ	E		10	00										5	28	
		LR	ZNE		11	16					14	20	13	18		9	20	
	ROX	ES	NE	11	05	24										3	10	6.1
		ELQ	NE		12	00							3	24		3	22	
MAY 15	GNZ	P	Z	19	11	11												
MAY 16	GNZ	EP	Z	08	19	42												
		E	Z			54												
MAY 16	GNZ	EP	Z	12	40	36												
		E	Z			48												
	KRP	EP	Z	12	40	40												
		E	Z			41	00											
	WEL	S	ZNE	12	43	11												
		ELR	Z		45	00					3	19						

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL	AE	TE	MAG
MAY 16				16	07	46.2	32.8S 178.3W	33KM	5.4						10			
	GNZ	EP	Z	16	09	18												
		E(S)	Z		10	29												
	ONE	EP	E	16	09	28												
		E	E			33												
		E	E			51												
	KRP	EP	Z	16	09	31												
		I	Z			45												
	CNZ	EP	Z	16	09	50												
		E	Z		10	02												
	WEL	EP	Z	16	10	09												
		E	NE			22												
		S	ZNE		11	51												
		LQ	NE		12	36							48	24		34	36	
		LR	ZNE		13	24					> 60	20	82	22		96	22	
	MNW	EP	Z	16	11	40												
	ROX	ES	NE	16	14	40							4	8		4	15	6.3
		LQ	NE		15	50							24	22		39	26	
		LR	ZE		17	40					47	18				50	14	

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL	AE	TE	MAG
MAY 16	WEL	S	ZNE	16	14	55												
	MNW	EP	Z		16	14	37											
MAY 16	WEL	S	ZNE	16	16	04												
MAY 16	GNZ	EP	Z		16	15	33											
	KRP	EP	Z		16	15	47											
	WEL	S	ZNE	16	18	05												
MAY 16	GNZ	EP	Z		16	55	29											
	KRP	EP	Z		16	55	38											
		E	Z			51												
	WEL	S	ZNE	16	58	02												
MAY 17	GNZ	EP	Z	01	14	01												
		S	Z		15	16												
	KRP	EP	Z	01	14	12												
		E	Z			25												
	WEL	S	ZNE	01	16	34												
		ELR	ZNE		18	00					6	19	6	18		4	18	
	ROX	ELQ	NE	01	21	00												

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL	AE	TE	MAG
MAY 17				11	15	03.7	19.5S 176.7W	266KM	4.3						23			
	KRP	P	Z		11	19	16											
MAY 17	ONE	EP	E		17	01	14											
	KRP	P	Z		17	01	29											
	GNZ	P	Z		17	01	31											
		ES	Z			03	59											

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL	AE	TE	MAG
MAY 17				17	05	24.8	33.2S 178.4W	33KM	4.6						10			
	GNZ	EP	Z	17	06	53												
		E	Z		07	10												
		ES	Z		08	07												
	ONE	EP?	E	17	07	02												
		E	E			11												
	KRP	EP	Z	17	07	05												
		I	Z			15												
	WEL	S	ZNE	17	09	24												
		LR	ZNE		10	56					10	16	7	16		5	16	
	MNW	EP	Z	17	09	16												
	ROX	ELQ	NE	17	13	00												

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL	AE	TE	MAG
MAY 17				18	25	55.6	33.3S 178.3W	59KM							10			
	GNZ	EP	Z	18	27	22												
	ONE	EP	E	18	27	30												
	KRP	EP	Z	18	27	32												
		E	Z			42												
	WEL	S	ZNE	18	29	50												
	MNW	EP	Z	18	29	44												
MAY 17	GNZ	EP	Z	23	08	07												
		ES	Z		09	28												
	KRP	EP	Z	23	08	18												
	WEL	S	ZNE	23	10	48												
MAY 18	GNZ	P	Z	00	46	28												

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 18	14 12 10.1		21.2S 174.5W	33KM	5.6					WEL 22
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ	EP	Z 14 16 24							
		ES	Z 19 37							
	KRP	P	Z 14 16 28							
	WEL	EP	ZNE 14 17 03							
		ES	Z 20 48							
		LR	Z 22 30		5	24	11	16	9	16
	ROX	ELQ	NE 14 26 00							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 19	23 03 41.8		0.7S 80.2W	54KM	5.4					WEL 101
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL	ESKS	Z 23 28 04		1	10				
		PS	Z 30 38		3	32				
		ESS	Z 35 32		3	32				
		LR	ZE 50 00		19	21			12	23
	ROX	ES	N 23 29 28							
		ESS	NE 36 50				3	18		
		ELR	ZNE 52 00		8	20	4	20	10	20

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 20	04 53 30.3		31.4S 178.2W	33KM	4.8					WEL 11
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ	EP	Z 04 55 25							
		E	Z 31							
		ES	Z 56 47							
	ONE	P	E 04 55 28.0							
		E	E 40							
	KRP	EP	Z 04 55 32							
	WEL	S	ZNE 04 58 08							
		ELR	Z 59 40		3	26				
	ROX	EP	Z 04 57 26							
		ES	Z 05 00 20							
	MNW	EP	Z 04 57 36							
MAY 20	GPZ	EP	N 05 36 53							
	KRP	EP	Z 05 36 57							
	WEL	S	ZNE 05 39 32							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 21	15 36 01.5		59.0N 153.5W	15KM	5.3					WEL 103
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL	ELR	Z 16 30 00							

MAY 22	GNZ	EP	Z 08 55 22							
	ONE	EP	E 08 55 38							
	WEL	S	ZNE 08 57 44							
		ELR	Z 59 20		1	16				
MAY 22	WEL	ES	ZNE 05 40 26							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 22	04 59 26.2		20.3S 169.4E	144 KM						WEL 31
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	ONE	EP	E 05 03 05							
	GNZ	IP	Z 05 03 45.0	D						
	WEL	P	Z 05 04 05							
	ROX	P	Z 05 04 38							
	MNW	EP	Z 05 04 40							
MAY 22	WEL	EL	Z 13 34 00							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 23	11 22 33.3		28.6N 139.4E	409KM	5.1					WEL 77
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	P	Z 11 33 29.0							
			Z 53							
	GNZ	EP	Z 11 33 37							
	WEL	IP	ZNE 11 33 41.0							
	MNW	EP	Z 11 33 50							
MAY 23	GNZ	EP	Z 12 20 07							
		E	Z 47							
		E	Z 21 30							
		E	Z 48							
	KRP	EP	Z 12 20 34							
		E	Z 43							
	ONE	EP	E 12 20 43							
	WEL	ES	ZNE 12 23 04							
		ELR	Z 24 00				1	20		
MAY 23	WEL	ES	ZNE 12 24 20							
MAY 23	WEL	ELR	Z 15 19 00							
MAY 24	GNZ	EP	Z 04 15 17							
	KRP	EP	Z 04 15 39							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 24	04 13 05.3		22.6S 174.1W	33KM	5.7					WEL 21
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ	EP	Z 04 17 09							
		E	Z 20 00							
		ES	Z 10							
	KRP	P	Z 04 17 13							
	WEL	P	ZNE 04 17 40				1	14		5.0
		ES	ZNE 21 20							
		ELQ	E 22 40							
		LR	ZNE 23 36				9	16	10 14	7 14

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 24	10 31 24.1		34.3N 141.1E	33KM	5.2					WEL 81
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z 10 43 25							
	WEL	ELR	ZNE 11 09 00							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 24	20 32 36.3		19.1S 177.9W	441KM	3.6					WEL 23
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ	P	Z 20 36 40							

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 25	04 59 39.6		30.6S 178.0W	33KM	4.3					WEL 12
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ	EP	Z 05 01 45							
		ES	Z 03 16							
	KRP	EP	Z 05 01 50							
	WEL	S	ZNE 05 04 41							
		ELR	Z 06 00				1	24		

	H M S		EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 25	08 32 49.0		15.7S 174.9W	269KM	4.5					WEL 27
			H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP	P	Z 08 37 39							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 25	19 44 07.0	9.1S 88.9E	33KM	5.5	81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	EP	Z	19 55 55								
KRP	EP	Z	19 56 21								
WEL	ESKS	Z	20 07 16		4	36					
	ELR	ZNE	24 00		3	32					

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 26	09 40 57.9	16.5N 145.9E	94KM	5.5	63

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	IP	Z	09 51 01.3	D							
CNZ	P	Z	09 51 09								
GNZ	P	Z	09 51 11								
WEL	EP	ZE	09 51 17								
MNW	EP	Z	09 51 26								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 26	10 59 12.3	56.2S 27.8W	120KM	5.9	81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	EP	Z	11 10 54								
	I	Z	57								
ROX	P	Z	11 10 58		85	10					7.5
WEL	P	ZNE	11 11 15								
	I	ZNE	18	U	> 63	30	81	16	19	18	
	PP	ZN	14 32		> 60	26	71	16			7.7
	S	ZNE	21 08		39	36	43	24	143	48	7.3
	PS	ZN	22 16		> 70	36	>>	36			
	ESS	NE	26 48						65	34	
	LQ	NE	32 44						>>	35	
	LR	Z	37 00								
CNZ	P	Z	11 11 23								
	I	Z	27								
GNZ	P	Z	11 11 27								
KRP	EP	Z	11 11 29.0								
	I	Z	30.8								
	E	Z	37 31								
	PKPPKP	Z	48								
	PKPPKS	Z	41 02								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 26	12 23 27.5	56.1S 27.7W	149KM	5.4	81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	12 35 42								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 26	15 42 34.0	56.1S 27.4W	82KM	5.4	81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	15 54 56								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 27	00 56 42.5	56.1S 27.6W	105KM	5.6	81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ES	Z	01 19 32		4	36					
	LR	Z	35 30		13	58					

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 27	06 30 57.7	56.2S 27.4W	116KM	5.8	81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	EP	Z	06 42 42								
KRP	P	Z	06 43 16								
WEL	ELR	Z	07 10 00								
MAY 27 KRP	P	Z	07 08 20								
CNZ	EP	Z	07 08 32								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 27	11 20 26.8	18.4S 173.1W	33KM	4.6	25

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	11 25 03								
KRP	EP	Z	11 25 18								
MAY 27 WEL	ELR	Z	18 18 57								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 27	19 02 02.4	56.4S 28.4W	61KM	6.0	81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	19 14 26								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 28	01 56 58.9	24.5N 122.0E	41KM	5.9	82

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	02 09 06								
GNZ	P	Z	02 09 15								
WEL	ELR	Z	02 36 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 28	03 57 19.0	16.8S 177.7W	388KM	4.4	25

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	04 01 42								
MNW	EP	Z	04 03 05								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 28	21 09 09.5	3.6S 102.7W	33KM	4.5	82

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ELR	Z	21 47 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 28	23 28 27.9	1.6N 127.2E	103KM	6.3	61

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	P	Z	23 38 19								
KRP	P	Z	23 38 21.2								
WEL	P	ZNE	23 38 28								
	ELR	Z	57 00								
GNZ	P	Z	23 38 35								
MAY 28 KRP	P	Z	00 37 30								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 29	09 04 27.1	56.2S 27.7W	33KM	5.8	81

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
CNZ	P	Z	09 16 49								
KRP	P	Z	09 16 54								
MAY 29 GNZ	P	Z	10 23 12								
	E	Z	28								
	E	Z	24 21								
ONE	EP	E	10 23 14								
KRP	P	Z	10 23 20								
CNZ	EP	Z	10 23 45								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 29	10 17 34.5	60.2N 146.3W	5KM	5.6	106

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	ELR	Z	11 07 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG) WEL
MAY 29	12 25 16.9	18.6S 177.8W	462KM	4.2	23

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	12 29 14								
MAY 29 GNZ	EP	Z	14 11 24								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 29	15	33	05.5	56.3S	28.0W	120KM	5.7	WEL 81

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
CNZ	P	Z	15	45	16								
KRP	P	Z	15	45	22								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 29	18	35	02.3	26.2S	178.3E	614KM	5.4	WEL 15

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ONE	P	E	18	37	26								
KRP	IP	Z	18	37	41.3	U							
GNZ	P	Z	18	37	44								
	S	Z		39	56								
WEL	P	ZNE	18	38	12.8								
	S	ZNE		40	47								
MNW	P	Z	18	39	08								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 29	18	42	19.3	26.2S	178.3E	605KM	3.9	WEL 15

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ONE	P	E	18	44	45								
KRP	P	Z	18	44	59								
GNZ	P	Z	18	45	01								
	S	Z		47	12								
WEL	EP	ZNE	18	45	30								
	S	ZNE		48	08								
MNW	P	Z	18	46	25.5								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 29	19	01	57.0	26.1S	178.3E	613KM	4.1	WEL 15

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ONE	EP	E	19	04	22								
KRP	P	Z	19	04	36								
GNZ	P	Z	19	04	40								
	ES	Z		06	52								
WEL	EP	ZNE	19	05	07								
	S	Z		07	43								
MNW	P	Z	19	06	03								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 29	20	09	00.6	0.5S	134.7E	33KM	5.1	WEL 54

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	20	18	20								
WEL	ELR	Z	20	39	00								
MAY 30 GNZ	EP	Z	00	55	25								
WEL	EL	Z	00	59	00								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 30	14	30	45.3	36.2N	141.1E	49KM	5.4	WEL 83

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	14	42	53								5.4
WEL	EP	Z	14	43	09		1	12					6.2
	S	ZNE		53	19				3	12	2	12	
	PS	ZN		54	09		1	24	2	26			
	ESS	ZNE		58	48		2	18	4	25	2	28	
	ELQ	NE	15	05	30				5	40	6	48	
	LR	ZN		09	31		7	32	6	36			
ROX	ES	NE	14	53	40								
	ELQ	E	15	06	00								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 30	17	23	17.3	9.3N	126.4E	91KM	5.3	WEL 87

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	17	33	54								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 31	00	40	36.4	43.5N	146.8E	48KM	6.3	WEL 88

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	00	53	09								
	EPP	Z		56	25								
CNZ	P	Z	00	53	17								
	EPP	Z		56	39								
GNZ	E(P)	Z	00	53	19								
WEL	IP	ZNE	00	53	23.2	U	7	20	4	30			6.5
	PP	Z		56	51		5	24					6.5
	SKS	ZNE	01	03	43		18	26	50	28	22	28	
	PS	ZNE		05	12		16	24	26	28			
	ESS	ZNE		09	47		14	24	6	18	31	30	
	LQ	NE		16	44				47	48	67	58	
	LR	ZNE		21	10		> 60	22	51	24	43	24	
MNW	EP	Z	00	53	36								
	EPP	Z		57	14								
ROX	EP	ZNE	00	53	38								
	SKS	ZNE	01	04	12				12	20	9	14	
	S	ZNE			37		124	14	33	16	16	12	7.2
	SS	ZNE		10	09		6	12	15	20	10	16	
	ELQ	E		18	30						73	52	
	LR	ZNE		23	00		73	24	71	24	68	23	
MAY 31 GNZ	EP	Z	06	25	56								
	E	Z		26	13								
	E	Z		27	01								
ONE	P	E	06	26	01								
KRP	P	Z	06	26	05								
	E	Z		27	08								
CNZ	EP	Z	06	26	23								
	E	Z		27	51								
TNZ	EP	Z	06	26	26								
WEL	S	ZNE	06	28	11								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 31	17	15	26.8	13.6S	172.1E	73KM	5.0	WEL 28

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	17	20	39								
CNZ	P	Z	17	20	51								
WEL	P	ZN	17	21	04		2	18					5.5
	PP	Z			56		2	16					5.4
	S	ZNE		25	48		4	14	6	28	2	12	5.5
	LR	ZN		28	36		27	20	19	22			
ROX	EP	Z	17	21	45								
	S	NE		27	00				4	12	2	10	5.7
	ELQ	E		29	20								
	ELR	ZN		31	00				6	24			

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
MAY 31	18	34	15.5	13.3S	171.8E	111KM	4.6	WEL 28

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	18	39	26								
	E	Z			53								
MAY 31 ROX	ELQ	NE	23	11	00								
WEL	ELR	Z	23	14	00								
	ELR	Z			00								

	H	M	S	EPICENTRE		DEPTH	MAG	DIST (DEG)
JUN 01	06	05	07.6	14.6S	167.4E	176KM	5.2	WEL 27

			H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	06	10	10								
	E	Z			35								
CNZ	EP	Z	06	10	21								
	E	Z		11	04								
GNZ	EP	Z	06	10	30								

	WEL	EP	Z	06 10 36									
	ROX	P	Z	06 11 09	U								
		E(L)	E	20									
	MNW	P	Z	06 11 10	D								
		E	Z	25									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 01	08 49 37.1	4.6N 125.9E	113KM	5.3							WEL 64
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 09 00 22									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 01	13 17 20.7	21.0S 175.7W	35KM	5.2							WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP E(P)	Z 13 21 32									
	WEL EL	ZNE 13 27 00									
	ROX L	ZNE 13 30 00									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 02	23 12 37.8	14.7S 167.0E	82KM	4.7							WEL 27
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 23 17 51									
	GNZ EP	Z 23 18 03									
	WEL EL	Z 23 27 00									
	ROX E(L)	E 23 30 00									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 03	17 54 14.7	18.8S 173.7W	33KM	4.8							WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 17 58 59									
	E	Z 59 10									
	WEL EL	Z 18 06 00									
	ROX EL	NE 18 10 00									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 04	00 15 39.8	33.5S 177.8W	31KM	4.3							WEL 10
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP E(P)	Z 00 17 28									
	E	Z 18 09									
	GNZ E	Z 00 17 48									
	E(S)	Z 18 27									
	WEL ES	ZNE 00 19 53									
	MNW E(P)	Z 00 19 39									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 04	04 28 54.7	17.5N 100.8W	22KM	4.7							WEL 97
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL EL	Z 05 13 00									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 04	10 18 15.3	7.8S 117.6E	47KM	5.2							WEL 69
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 10 28 29									
	MNW E	Z 10 28 04									
	WEL EL	Z 10 50 00									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 04	11 17 11.8	6.1S 149.9E	54KM								WEL 41
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 11 24 38									
	WEL EL	ZNE 11 34 00									
	ROX MAX	N 11 39 00									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 04	11 53 50.2	14.7S 176.0W	303KM	3.9							WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP P	Z 11 58 41									
	MNW EP	Z 12 00 05									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 04	12 56 02.6	4.9S 134.2E	33KM								WEL 51
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL E(PPP)	Z 13 09 00									
	EL	Z 24 00				2	20				
	ROX EL	E 13 24 00									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 05	09 13 20.0	16.2S 177.3E	25KM	5.2							WEL 25
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 09 18 08									
	WEL EP	Z 09 18 42									
	EL	Z 24 00				1	14				
	ROX EL	E 09 26 00									
JUN 05	KRP EP	Z 16 29 23									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 05	22 06 53.0	58.1N 152.1W	15KM	5.0							WEL 103
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL EL	Z 22 55 00									
JUN 06	MNW EP	Z 01 10 37									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 06	19 07 51.4	26.6S 114.4W	33KM	5.8							WEL 59
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	MNW E(P)	Z 19 18 18									
	WEL E	ZE 19 21 36									
	ES	ZNE 26 08				1	20	10	24	5.8	
	EL	ZNE 34 30				16	26	4	23	7	20
	E	Z 20 17 50									
	ROX ES	Z 19 26 54						5	24	6.1	
	EL	NE 36 00				3	18	3	18		
JUN 07	KRP EP	Z 08 25 51									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 07	13 07 53.2	18.4S 173.7W	33KM	4.5							WEL 25
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	GNZ EP	Z 13 12 40									
	E	Z 55									
	KRP P	Z 13 12 41	U								
	CNZ E?	Z 13 12 54									
	E	Z 13 07									
	MNW EP	Z 13 14 18									
	ROX MAX	NE 13 27 00									
JUN 07	KRP E(P)	Z 16 51 16									
	E	Z 22									
	CNZ E	Z 16 51 30									
JUN 07	KRP EP	Z 16 53 22									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 07	20 10 15.9	30.4S 67.6W	29KM	5.2							WEL 88
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	CNZ E	Z 20 23 25									
	KRP EP	Z 20 23 30									
	WEL E?	Z 20 24 43									

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JUN 08	02 26 42.3	22.1S 179.5W	554KM	4.7							WEL 20
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 02 30 07									
	WEL E(L)	Z 02 37 00									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 08	04 22 30.1	51.6N 175.9W	27KM	4.9						WEL 93
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 04 35 38								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 08	15 48 00.0	4.9S 151.3E	221KM	5.1						WEL 42
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 15 55 13								
	CNZ EP	Z 15 55 20								
	TUA EP	Z 15 55 25								
	GNZ E(P)	Z 15 55 27								
JUN 08	CNZ E(P)	Z 18 14 08								
	KRP EP	Z 18 14 13								
	WEL E	Z 18 15 17								
	E(L)	Z 24 00								
JUN 08	WEL E(L)	Z 18 43 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 08	22 53 21.7	17.7N 145.7E	163KM	5.4						WEL 65
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 23 03 27								
	E*PP	Z 57								
	CNZ EP	Z 23 03 33								
	GNZ EP	Z 23 03 36								
	E*PP	Z 04 03								
	WEL EP	Z 23 03 42								
	E	ZE 07 26								
	MNW EP	Z 23 03 52								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 09	04 22 59.8	35.4S 105.9W	33KM	4.8						WEL 68
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 04 50 00								
JUN 09	GNZ E(P)	Z 12 39 44								
	E	Z 47								
	E	Z 41 55								
	E	Z 42 00								
	E	Z 59								
	KRP P	Z 12 39 46								
JUN 09	ONE EP	E 14 32 22								
	E	E 33 18								
	GNZ EP	Z 14 32 26								
	E	Z 36								
	E	Z 45								
	E	Z 33 03								
	E(S)	Z 31								
	KRP P	Z 14 32 32	U							
	TUA EP	Z 14 32 33								
	E	Z 42								
	CNZ EP	Z 14 32 48								
	TNZ EP	Z 14 32 56								
	WEL E(S)	NE 14 34 51								
	EL	Z 36 00			2	20				
	COB E	E 14 33 29								
	ROX EL	E 14 38 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 09	15 02 21.6	19.2S 177.6W	556KM	4.6						WEL 83
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 15 06 15								
	GNZ EP	Z 15 06 16								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 10	08 54 36.0	31.3S 178.4W	400KM	5.9						WEL 11
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	RAO EP	Z 08 55 34								
	E	Z 55								
	E	Z 56 03.5								
	E	Z 06								
	E	Z 10								
	E(S)	Z 16								
	ONE EP	E 08 56 26								
	E	E 52								
	E	E 57 10								
	ES	E 51								
	GNZ EP	Z 08 56 30	U							
	E	Z 36								
	E	Z 50								
	E	Z 57 51								
	ES	Z 59								
	E	Z 58 05								
	KRP P	Z 08 56 36	U							
	E	Z 38								
	E	Z 57 45								
	E	Z 58 14								
	E	Z 20								
	TUA EP	Z 08 56 36								
	E	Z 39								
	E	Z 57 47								
	E	Z 58								
	E	Z 58 06								
	E(S)	Z 09								
	E	Z 22								
	CNZ EP?	Z 08 56 47								
	E	Z 49								
	E(S)	Z 58 25								
	E	Z 32								
	E	Z 44								
	TNZ EP	Z 08 56 56								
	E	Z 57 18								
	E	Z 58 14								
	E(S)	Z 47								
	E	Z 55								
	WEL EP	Z 08 57 10								
	E	Z 59 05								
	ES	NE 08								
	E	ZNE 11								
	COB ES	E 08 59 24								
	KAI EP?	X 08 57 43								
	ES	X 09 00 02								
	E	X 11								
	GPZ EP?	N 08 57 43								
	E	N 48.5								
	ES	N 09 00 10								
	MNW E	Z 09 01 45								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 10	19 13 52.0	18.0S 167.9E	47KM	5.3						WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 19 18 34	U							
	E(*PP)	Z 45								
	TUA EP	Z 19 18 47								
	GNZ EP	Z 19 18 48								
	CNZ EP	Z 19 18 49								
	WEL E(P)	Z 19 19 07								
	ROX EL	E 19 26 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 10	22 16 44.8	5.0N 127.4E	146KM	5.5						WEL 63
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 22 26 50								
	E	Z 27 06								
	E	Z 16								
MNW	EP	Z 22 26 50								
TNZ	E(P)	Z 22 26 53								
	E	Z 27 17								
CNZ	EP	Z 22 26 55								
	E	Z 27 18								
ROX	EP	Z 22 26 55								
	ES	NE 35 12								
	E	NE 42 18								
	EL	E 45 30								
WEL	EP	Z 22 27 00								
	ES	Z 35 30								
	ESS	ZNE 39 54								
	EL	ZNE 44 00								
GNZ	E	Z 22 27 06								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 11	01 05 20.2	19.5S 175.4W	272KM	4.5						WEL 23
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 01 09 29								
	E	Z 50								
GNZ	E	Z 01 09 33								
CNZ	E?	Z 01 10 04								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 11	10 26 16.8	2.2S 141.2E	67KM							WEL 49
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 10 34 50								
	E	Z 59								
GNZ	E	Z 10 35 04								
WEL	EL	ZNE 10 50 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 11	10 55 06.2	56.0S 27.3W	33KM	5.8						WEL 81
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 11 07 33								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 11	13 19 44.0	1.9S 141.0E	40KM	5.3						WEL 50
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 13 28 30								
	E	Z 31 14								
GNZ	E(P)	Z 13 28 45								
WEL	EL	Z 13 43 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 11	15 20 48.4	2.0S 141.2E	33KM	5.7						WEL 49
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 15 29 24								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 11	17 01 48.5	2.0S 140.8E	18KM							WEL 51
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 17 10 28								
TNZ	E(P)	Z 17 10 31								
MNW	EP	Z 17 10 41								
	E	Z 51								
GNZ	EP?	Z 17 10 42								
	E	Z 45								
WEL	EP	Z 17 10 45								
	ES	ZNE 17 47						3	36	3 36 5.1
	ESS	ZNE 21 50								

	EL	ZE	26 00			10	26		5	27
ROX	EP?	Z	17 10 46							
	E	Z	54							
	ES	NE	17 52							
	ESS	NE	22 00							
	EL	NE	26 00							

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 11	18 32 17.9	33.1N 137.6E	330KM	4.8						WEL 82
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 18 42 17.5								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 11	21 28 08.2	55.9S 27.7W	135KM	6.1						WEL 81
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 21 40 25								
	E*PP	Z 57								
WEL	E(PS)	Z 21 51 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 12	06 43 51.5	35.0S 111.8W	33KM	4.7						WEL 57
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EL	Z 07 10 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 12	10 50 09.1	2.1S 141.1E	33KM	5.5						WEL 49
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 10 58 45								
MNW	EP?	Z 10 58 58								
	E	Z 59 06								
WEL	EP?	Z 10 59 00								
	E	Z 06								
	E(S)	Z 11 06 00								
	E(SS)	Z 10 00								
	EL	ZNE 14 00								
ROX	E(S)	E 11 06 24								
	ESS	NE 10 30								
	EL	NE 14 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 12	15 56 21.3	11.4N 141.1E	33KM	5.5						WEL 61
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 16 07 04								
WEL	EL	Z 16 16 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 12	18 12 20.5	26.5S 178.3E	648KM	5.3						WEL 15
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	IP	Z 18 14 53	D							
	E(S)	Z 17 03								
GNZ	EP	Z 18 14 54								
	E(S)	Z 17 04								
	E	Z 09								
	E	Z 14								
	E	Z 29								
	E(PCS)	Z 22 23								
TUA	EP	Z 18 14 55								
	E	Z 58								
	E(S)	Z 17 05								
	E	Z 11								
TNZ	P	Z 18 15 08.7	D							
WEL	EP	ZNE 18 15 22.5								
	E	Z 17 44								
	E	E 47								
	E	Z 50								
	E(S)	NE 52								
	E	ZE 55								
	EPCS	ZNE 22 27.5	D							

		ESCS	NE	26 05									
	ROX	EP	Z	18 16 13									
		I(PCS)	Z	22 39	D								
	MNW	P	Z	18 16 21									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 12	22 47 47.2		6.6S 154.7E		80KM	5.1							WEL 39
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	22 54 46									
	CNZ	E(P)	Z	22 54 54									
	WEL	EL	Z	23 07 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 13	04 20 53.5		53.6N 172.1E		33KM	5.1							WEL 95
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	EL	Z	05 04 00									
	ROX	EL	N	05 07 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 13	05 04 23.5		1.9S 141.2E		33KM	5.9							WEL 91
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	05 13 00									
	MNW	E(P)	Z	05 13 24									
	WEL	EL	Z	05 28 00									
	ROX	MAX	N	05 34 00									
JUN 13	ROX	E(L)	NE	08 18 24									
	WEL	EL	Z	08 22 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 13	08 23 45.6		10.0N 93.0E		33KM	6.1							WEL 90
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	MNW	EP	Z	08 36 27									
	ROX	EP	Z	08 36 33									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 13	11 14 26.5		27.3S 178.0W		34KM	4.8							WEL 15
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	TUA	E(P)	Z	11 17 09									
		E(S)	Z	19 20									
	CNZ	E	Z	11 17 33									
	WEL	ES	ZN	11 20 31									
		EL	ZNE	21 30		12	24	11	20				
	ROX	EL	NE	11 24 00									
	MNW	EP	Z	11 19 12									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 13	14 01 40.2		3.9S 154.3E		474KM	5.5							WEL 42
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	14 08 26									
		EPCP	Z	10 24									
		E(S)	Z	13 30									
	CNZ	IP	Z	14 08 35	D								
	WEL	EP	Z	14 08 44									
		E	ZN	49									
	MNW	EP	Z	14 08 59									
	ROX	EP	Z	14 09 00									
JUN 13	WEL	EL	ZNE	15 59 00									
	ROX	EL	NE	16 02 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 13	22 31 53.5		27.6S 178.3W		94KM	5.2							WEL 15
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	22 34 33									
	GNZ	EP	Z	22 34 48									
		ES	Z	36 35									
	CNZ	E(P)	Z	22 34 49									

	WEL	EP	Z	22 35 15									
		E	Z	36 00		1	28						
		ES	E	37 50									
		EL	ZNE	39 00		45	24	42	20	29	23		
	ROX	EP	Z	22 36 29									
		EL	ZNE	40 00				22	20	32	18		
	MNW	EP	Z	22 36 34									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 13	23 46 44.5		19.3S 176.5W		285KM	4.4							WEL 23
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	GNZ	EP	Z	23 50 59									
		E(S)	Z	54 27									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 14	01 19 57.7		27.5S 177.5W		33KM	4.5							WEL 15
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	GNZ	E	Z	01 23 16									
		E	Z	24 47									
		E(S)	Z	25 00									
	WEL	E	Z	01 23 44									
		E	Z	24 39									
		ES	ZNE	26 03									
		EL	ZE	27 00		6	24			5	20		
	ROX	EL	NE	01 29 00									
JUN 14	CNZ	E?	Z	05 15 26									
		E?	Z	17 48									
	GNZ	E	Z	05 16 47									
		ES	Z	18 24									
	WEL	E	ZNE	05 19 40									
		EL	ZE	21 00		4	24			4	24		
	ROX	EL	NE	05 23 00									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 14	12 15 31.3		38.0N 38.5E		8KM								WEL 146
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	ROX	E(PKP)	Z	12 35 12									
		EL	E	13 31 00									
	KRP	EPKP	Z	12 35 15									
	CNZ	E(PKP)	Z	12 35 15									
		E	Z	46									
	WEL	EPKP	Z	12 35 15									
		EL	Z	13 12 00		1	20						
	GNZ	E(PKP)	Z	12 35 22									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
JUN 15	00 05 31.1		5.4N 97.0E		33KM	5.5							WEL 84
			H M S		DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	MNW	EP	Z	00 17 43									
	ROX	E(P)	Z	00 17 49									
		E	Z	18 35									
		ES	NE	28 02									
		E	E	34 00									
		EL	ZNE	39 00		6	20			11	20		
	CNZ	EP	Z	00 18 03									
	KRP	EP	Z	00 18 05									
	WEL	EP	Z	00 18 06									
		ES	ZNE	28 24									
		ESS	Z	35 00									
		ESSS	Z	38 00									
		E()	ZNE	41 00									
		EL	ZE	48 00		17	24			13	24		
	GNZ	EP	Z	00 18 14									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 15
JUN 15	02 05 37.1	17.4S 174.9W	148KM	4.5						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z 02 10 22								
	TNZ EP	Z 02 10 39								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	04 01 44.3	38.3N 139.1E	57KM	6.1						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 04 14 05								
	EPP	Z 17 24								
	E(SKS)	Z 25 01								
	E(PPS)	Z 26 25								
	EL	Z 45 00								
	CNZ E(P)	Z 04 14 12								
	EPP	Z 17 30								
	TNZ E(P)	Z 04 14 12								
	GNZ EP	Z 04 14 13								
	E	Z 18								
	E	Z 29								
	EPP	Z 17 46								
	WEL EP	Z 04 14 18	U							
	E(PCP)	Z 22								
	E(PP)	N 17 40								
	E	Z 45		> 60	24	142	22	101	23	
	ESKS	N 25 06								
	E	E 26 00								
	ESS	NE 30 00								
	ESSS	N 34 00								
	ELQ	NE 37 00								
	ELR	ZNE 41 42								
	ROX EP	Z 04 14 30								
	E	ZNE 35		33	10	18	16	10	12	
	EPP	ZN 18 10								
	E(SKS)	Z 24 54								
	E(S)	NE 25 12				68	23			7.1
	ESS	ZNE 31 00								
	ESSS	ZN 35 00								
	EL	ZNE 38 00		75	20	95	22	89	22	
	MNW E(P)	Z 04 14 40								
JUN 16	KRP EP	Z 04 16 53								
	WEL EP	Z 04 17 08								
JUN 16	KRP E(P)	Z 04 18 56								
JUN 16	KRP E(P)	Z 04 20 34								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	04 17 38.0	38.9N 139.1E	13KM	5.5						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 04 30 06	U							
	CNZ EP	Z 04 30 10								
	ROX EP	Z 04 30 30								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	04 35 30.2	38.5N 138.7E	33KM	5.6						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 04 47 55								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	04 46 37.9	39.0N 139.1E	33KM	5.4						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 04 59 02								
	CNZ EP	Z 04 59 07								
JUN 16	KRP. E	Z 05 00 51								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	04 53 08.8	38.5N 138.7E	20KM							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 05 05 36								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	04 58 46.0	38.7N 138.9E	33KM	4.9						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 05 11 12								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	05 22 09.3	38.7N 139.1E	15KM	4.8						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 05 34 36								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	05 39 24.5	38.8N 139.0E	35KM	4.9						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 05 51 48								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	05 46 37.8	38.5N 138.9E	33KM	4.7						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP E(P)	Z 05 59 02								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	06 17 07.8	38.4N 138.9E	28KM	5.1						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 06 29 33								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	06 53 05.0	38.7N 139.0E	15KM	5.6						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 07 05 33.5								
	CNZ EP	Z 07 05 38								
	GNZ E(P)	Z 07 05 43								
	WEL EP	Z 07 05 49								
	ROX EP	Z 07 05 56								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	07 09 00.7	38.3N 139.0E	33KM	4.9						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP E(P)	Z 07 21 25								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	07 14 57.1	38.5N 139.2E	16KM	5.9						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 07 27 23								
	CNZ EP	Z 07 27 29								
	E	Z 36								
	GNZ EP	Z 07 27 30								
	WEL EP	Z 07 27 36								
	ROX E(P)	Z 07 27 51								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL 86
JUN 16	07 17 21.5	38.8N 139.1E	20KM	5.1						
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 07 29 46								
JUN 16	GNZ EP	Z 07 36 44								
	E	Z 51								
	KRP Ep	Z 07 36 57								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	07 51 10.4	38.4N 138.9E	15KM	4.9					WEL 66
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 08 03 37							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	08 15 14.2	38.8N 138.8E	15KM	4.7					WEL 66
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP E(P)	Z 08 27 44							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	08 34 08.7	22.0S 175.8W	33KM	4.6					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 08 38 08							
	E(S)	Z 41 22							
	KRP EP	Z 08 38 12							
	MNW EP	Z 08 39 50							
JUN 16	KRP EP	Z 09 01 09							
	GNZ E	Z 09 01 24							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	09 00 41.6	20.0S 170.2E	33KM	4.5					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 09 04 57							
	GNZ E	Z 09 05 14							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	09 10 22.1	38.4N 139.1E	33KM	4.7					WEL 66
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 09 22 46							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	09 56 46.1	17.3S 178.7W	502KM	4.3					WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 10 01 00							
	GNZ EP	Z 10 01 01							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	11 16 03.1	2.0S 141.1E	13KM	5.9					WEL 49
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z 11 24 42							
	CNZ EP	Z 11 24 46							
	E	Z 49							
	MNW EP	Z 11 24 55							
	GNZ E(P)	Z 11 24 56							
	WEL EL	ZN 11 40 00							
	ROX E	E 11 36 22							
	EL	E 41 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	11 43 05.6	38.6N 138.8E	15KM	4.8					WEL 66
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 11 55 33							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	17 23 30.4	5.8S 154.0E	60KM	5.7					WEL 91
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 17 30 40	U						
	CNZ E(P)	Z 17 30 49							
	GNZ EP	Z 17 3a 54							
	E	Z 31 21							
	WEL EL	Z 17 43 00							
JUN 16	CNZ E(P)	Z 18 22 14							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 16	22 03 14.3	15.3S 172.8W	33KM	4.7					WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 22 08 32							
	GNZ EP	Z 22 08 32							
	CNZ E(P)	Z 22 08 42							
	E	Z 48							
	MNW EP	Z 22 09 59							
	WEL EL	Z 22 16 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 17	07 48 58.5	19.6S 169.0E	58KM	4.5					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 07 53 20							
	TNZ EP	Z 07 53 32							
	CNZ EP	Z 07 53 34							
	E	Z 38							
	GNZ EP	Z 07 53 35							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 17	15 10 44.3	38.7N 139.0E	27KM	5.0					WEL 86
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 15 23 11							
	CNZ EP?	Z 15 23 15							
JUN 17	KRP EP	Z 15 39 08							
	GNZ EP	Z 15 39 09							
	CNZ EP	Z 15 39 18							
	TNZ EP	Z 15 39 23							
	MNW EP	Z 15 40 32							
JUN 17	GNZ E(P)	Z 17 05 53							
	E	Z 06 01							
	E	Z 23							
	E(S)	Z 07 08							
	E	Z 10							
	TUA EP?	Z 17 05 57.5							
	E	Z 59							
	ES	Z 07 19							
	CNZ E	Z 17 06 41							
	WEL E(S)	E 17 08 28							
	E	N 36							
	GPZ ES	N 17 09 34							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 17	22 17 37.9	23.8S 179.7W	504KM	4.8					WEL 18
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 22 20 46							
	E	Z 23 23							
	GNZ EP	Z 22 20 49							
	E(S)	Z 23 22							
	E	Z 26							
	CNZ EP	Z 22 20 59							
	E(S)	Z 23 43							
	WEL EP	Z 22 21 18							
	E(S)	ZNE 24 17							
	MNW EP	Z 22 22 16							
JUN 18	CNZ EP	Z 16 23 04							
	WEL EL	Z 16 34 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 18	18 01 47.6	47.5N 154.9E	33KM	5.3					WEL 90
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP E(P)	Z 18 14 26							
	WEL EL	Z 18 44 00							
	ROX E(SKS)	E 18 26 18							

		MAX	N		59 00					1	18		
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 18	20 33 53.3		39.3S 74.7W		26KM	5.3						WEL 78	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	WEL EL	Z	21 07 00										
	ROX EL	E	21 12 00										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 19	10 05 36.4		38.8N 139.3E		30KM	5.6						WEL 84	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	KRP EP?	Z	10 18 00										
	E	Z	03										
	WEL EL	Z	10 45 00										
	MNW E(P)	Z	10 18 28										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 19	10 34 33.6		22.6N 121.0E		33KM	5.2						WEL 81	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	KRP E(P)	Z	10 46 45										
	CNZ E(P)	Z	10 46 47										
	MNW EP	Z	10 46 49										
	ROX E(P)	Z	10 46 51										
	WEL EL	Z	11 15 00										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 20	09 59 08.9		19.9S 174.1W		33KM	4.7						WEL 27	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	KRP EP	Z	10 03 38										
	WEL EL	Z	10 10 30										
	ROX EL	NE	10 14 00										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 20	11 12 38.4		3.4S 139.7E		33KM	5.8						WEL 49	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	KRP EP	Z	11 21 20										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 20	12 31 49.7		21.2S 179.2W		600KM	4.4						WEL 21	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	KRP EP	Z	12 35 18										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 20	16 06 44.3		3.3S 142.4E		33KM	5.5						WEL 49	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	KRP EP	Z	16 15 06										
	WEL EL	Z	16 34 00										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 20	17 12 15.2		18.5N 105.5W		28KM	5.5						WEL 95	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	WEL EL	Z	17 55 00										
JUN 20	WEL EL	Z	23 14 00										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 21	01 33 11.2		51.0N 157.0E		51KM	5.7						WEL 93	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	KRP EP	Z	01 45 58	U									
	E(*PP)	Z	46 13										
	WEL EL	Z	02 16 00										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 21	03 32 58.0		31.5S 179.0W		450KM	5.6						WEL 11	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	RAO EP	Z	03 34 01										
	E	Z	10										
	E	Z	46										

	ES	Z		51									
	E	Z		55									
	E	Z		35	18								
ONE	EP	E	03	34	42								
	ES	E		36	05								
KRP	EP	Z	03	34	46								
	E	Z		35	19								
	E(S)	Z		36	11								
	E	Z			29								
GNZ	EP	Z	03	34	49								
	E	Z			50								
	E	Z		35	31								
	E	Z		36	10								
	E(S)	Z			14								
	E	Z			19								
TUA	EP	Z	03	34	53.5								
	E	Z			55								
	E(S)	Z		36	23								
	E	Z			26								
	E	Z			44								
TON	EP	Y	03	35	05								
	E	Y			18								
	ES	Y		36	42								
	E	Y			52								
TNZ	EP	Z	03	35	09								
	E	Z			10								
	E(S)	Z		36	59								
WEL	EP	ZNE	03	35	26								
	ES	NE		37	21								
	E	ZNE			24								
COB	ES	E	03	37	37								
KAI	E	X	03	35	57								
	ES	X		38	10								
	E	X			22								
GPZ	EP	N	03	35	59								
	ES	N		38	20								
	E	N			23								
ROX	EP?	Z	03	36	30								
MNW	ES?	Z	03	39	51								
JUN 21	WEL EL	Z	22	03	00								
	ROX EL	E	22	07	00								
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 21	22 21 22.7		16.3S 178.0E		18KM	5.0						WEL 25	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	KRP EP	Z	22 26 14										
	GNZ E(P)	Z	22 26 15										
	TNZ E(P)	Z	22 26 30										
	WEL EP	Z	22 26 51										
	EL	ZNE	32 00						4	14			
	ROX EP	Z	22 27 35										
	EL	ZNE	34 00										
	MNW E(P)	Z	22 27 45										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 21	22 55 59.9		20.8S 175.6E		33KM	4.7						WEL 20	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	GNZ E?	Z	23 01 07										
	E?	Z	59										
	WEL E	Z	23 01 29										
	TNZ E	Z	23 01 52										
	H M S		EPICENTRE		DEPTH	MAG						DIST (DEG)	
JUN 22	00 16 27.4		15.7S 172.8W		33KM	5.1						WEL 28	
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
	GNZ EP?	Z	00 21 38										
	E	Z	42										

	KRP	E(P)	Z	00	21	45								
	TNZ	EP	Z	00	22	00								
	WEL	EP	Z	00	22	08								
		E	Z		27	40								
		EL	ZNE		29	00		9	18			10	20	
	ROX	EP?	Z	00	22	35								
		E	Z			38								
		EL	ZNE		31	00				8	17	6	17	
	MNW	E	Z	00	23	17								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 22	03	03	37.9	10.4S	161.1E	70KM	5.4					WEL	33
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	EP?	Z	03	09	51								
	TNZ	EP	Z	03	09	53								
	WEL	EP?	Z	03	09	57								
		E	Z		10	07	U							
		E(*PP)	Z			27								
		E	Z		11	29								
		ES	ZN		15	42								
		E(SS)	ZE		17	44								
		EL	ZNE		19	00		11	30	7	24	8	30	
	GNZ	EP	Z	03	09	58								
		E(*PP)	Z		10	19								
	ROX	EP	Z	03	10	31								
		E	Z		11	33								
		E	N		16	20								
		E	NE		18	42								
		EL	NE		20	24				6	20	6	19	
	MNW	P	Z	03	10	31								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 22	07	30	59.5	18.0S	167.6E	33KM	4.7					WEL	24
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EL	Z	07	45	00								
	ROX	EL	NE	07	48	00								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 22	13	40	02.8	25.1S	177.4W	121KM	5.1					WEL	17
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX	E	Z	13	45	38								
	GNZ	E?	Z	13	45	44								
		E(S)	Z			57								
	TNZ	E(S)	Z	13	46	37								
	WEL	ES?	Z	13	46	58								
		E	Z		47	02								
		E	Z			06								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 22	21	23	33.6	13.6N	120.3E	56KM	6.5					WEL	74
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EL	Z	21	59	00								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 23	01	26	37.0	43.3N	146.1E	77KM	6.2					WEL	88
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	01	39	08								
		EPP	Z		42	23								
	TNZ	EP	Z	01	39	12								
	CNZ	E(P)	Z	01	39	16								
		EPP	Z		42	34								
	WEL	IP	Z	01	39	21	D							
		EPP	Z		42	29								
		ESKS	ZNE		49	36								
		ES	ZNE		50	02								
		ESS	ZE		55	36						13	17	
		L	ZNE	02	02	00		20	20					
	GNZ	E	Z	01	39	26								

	ROX	P	ZNE	01	39	35	DN	7	5					7.2
		E(*PP)	Z			56		7	5					
		EPP	ZNE		43	10	DN	6	5					7.3
		ESKS	ZNE		49	59								
		ES	ZNE		50	30				36	17	20	16	7.1
		ESS	NE		56	24				13	16	16	23	
		ELQ	E	02	03	00								
		ELR	ZNE		08	00		16	18	13	18	13	18	
	MNW	E(P)	Z	01	39	35								
		EPP	Z		43	10								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 23	09	18	56.2	18.4S	173.6W	33KM	4.5					WEL	25
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	09	23	47								
	WEL	EL	Z	09	34	00								
	ROX	EL	NE	09	34	00								
JUN 23	ROX	EL	NE	09	46	00								
	WEL	E(L)	Z	09	58	00								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 23	17	01	20.9	18.9S	175.8W	204KM	4.3					WEL	24
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP	Z	17	05	51								
		E(S)	Z		08	41								
	KRP	EP	Z	17	05	55								
		E	Z			57	U							
		E	Z		08	09								
	CNZ	E(P)	Z	17	06	03								
	TNZ	EP	Z	17	06	08								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 23	19	10	11.4	3.0N	126.6E	33KM	5.3					WEL	62
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	E(P)	Z	19	20	23								
	KRP	EP	Z	19	20	26								
	WEL	EL	Z	19	40	00								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUN 24	05	10	56.0	33.0S	177.0W	33KM	5.1					WEL	11
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	E?	Z	05	11	57								
		ES	Z		12	39								
		E	Z			44								
	GNZ	EP	Z	05	12	34								
		E	Z			36								
		E	Z			45								
		E(S)	Z		13	47								
	TUA	EP	Z	05	12	40								
		E	Z			53								
		ES	Z		14	00								
	ONE	EP?	E	05	12	43								
		E	E			46								
		E(S)	E		14	04								
	KRP	EP	Z	05	12	45								
		E	Z		13	00								
		E	Z			07								
	CNZ	E?	Z	05	12	54								
		E	Z		13	05								
		E(S)	Z		14	24								
	TON	E	Y	05	13	15								
		E(S)	Y		14	22								
		E	Y			27								
	TNZ	E(P)	Z	05	13	08								
		E	Z			19								
	WEL	ES	ZNE	05	15	04								
		EL	Z		17	00				0	20			

	MNW	E	Z	05	15	07								
	KAI	ES	X	05	16	06								
	GPZ	ES	N	05	16	08								
	ROX	EL	NE	05	19	30								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 24	14	59	58.7	7.1S	155.6E		123KM	5.0						WEL 38
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	EP	Z	15	06	55								
	MNW	EP	Z	15	07	21								
	ROX	EP	Z	15	07	23								
JUN 24	WEL	EL	Z	21	31	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 25	11	53	03.2	12.2S	165.6E		86KM							WEL 31
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EL	Z	12	10	00								
JUN 26	WEL	E	NE	05	31	25								
		E	ZNE			34								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 26	13	10	28.9	12.6S	169.4E		648KM	4.9						WEL 29
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	13	15	12								
	TUA	EP	Z	13	15	21								
	TNZ	E(P)	Z	13	15	23								
	WEL	EP	ZNE	13	15	38	U							
		E	E		19	38								
		E(S)	E			43								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 26	13	32	52.3	9.2S	158.9E		17KM	5.6						WEL 35
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	13	39	19								
	CNZ	EP	Z	13	39	30								
	TUA	EP	Z	13	39	33								
	MNW	EP	Z	13	40	03								
	WEL	EL	ZN	##	##	##								
	ROX	EL	NE	13	50	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 27	11	44	21.4	20.2S	178.9W		603KM	4.5						WEL 22
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	11	47	57								
	CNZ	EP	Z	11	48	07								
	WEL	EP	Z	11	48	24								
JUN 27	KRP	E(P)	Z	14	10	42								
		E	Z			45								
	TUA	E(P)	Z	14	10	44								
		E	Z			50								
		E(S)	Z		12	25								
		E	Z			29								
		E	Z			40								
	CNZ	EP	Z	14	10	53								
		E	Z		11	36								
		E	Z		12	31								
		E	Z			43								
		E(S)	Z			49								
		E	Z			58.5								
	TNZ	E(P)	Z	14	11	02								
		E(S)	Z		13	03								
		E	Z			09								
	WEL	EP	Z	14	11	16								
		ES	ZNE		13	29								
	COB	ES	E	14	13	43								

	KAI	ES	X	14	14	19								
	GPZ	E	N	14	11	51								
		ES	N		14	27								
		E	N			30								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 27	16	43	47.0	11.5S	13.8W		33KM	4.7						WEL 127
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EL	ZNE	17	43	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 28	12	51	34.6	1.7S	149.6E		7KM	6.4						WEL 45
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	12	59	38								
		E	Z	13	01	27								
	TNZ	E(P)	Z	12	59	42								
	CNZ	EP	Z	12	59	45								
	GNZ	EP	Z	12	59	50								
	WEL	EP?	Z	12	59	52								
		E	Z			58								
		E	Z	13	00	06								
		E(PP)	Z		01	02								
		ES	NE		06	32								
		EL	ZNE		10	00			22	17	42	32	38	30
	MNW	EP	Z	13	00	05								
		E	Z		01	21								
		E(PP)	Z			54								
	ROX	EP	Z	13	00	09								
		E(PP)	N		02	00								
		E	NE		05	00								
		ES	NE		07	00								
		EL	ZNE		10	24			12	20	22	21	35	20
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 28	14	52	08.4	13.2S	167.1E		215KM	5.4						WEL 29
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	14	57	23								
	TNZ	EP	Z	14	57	29								
	GNZ	EP	Z	14	57	30								
	CNZ	EP	Z	14	57	32								
	WEL	EP	ZNE	14	57	45								
		ES	ZNE	15	02	20								
	ROX	P	Z	14	58	15.5	U							
	MNW	EP	Z	14	58	19								
JUN 28	WEL	EL	Z	15	35	00								
	ROX	EL	NE	15	32	00								
	MNW	EP	Z	15	27	50								
JUN 28	CNZ	EP	Z	17	51	35								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 28	17	27	59.8	4.0N	32.4W		33KM	5.3						WEL 136
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	E(SSS)	ZN	18	13	00								
		EL	ZNE		32	00				2	27			
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 28	23	45	37.9	30.7S	178.0W		29KM	4.2						WEL 12
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	TUA	E(P)	Z	23	47	44								
		E	Z			59								
		E(S)	Z		49	22								
	KRP	E(P)	Z	23	47	54								
	GNZ	E	Z	23	47	52								
		E(S)	Z		49	11								
	WEL	ES	ZNE	23	50	28								
		EL	Z		52	00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 29	07 12 05.9	17.5S 173.5W	33KM	4.1						WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 07 17 01								
GNZ	EP	Z 07 17 02								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 29	07 21 32.8	62.7N 152.0W	33KM	5.6						WEL 137
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EL	Z 08 13 00								
JUN 29	WEL EL	Z 09 45 00								
JUN 29	WEL EL	Z 19 05 00								
JUN 29	TUA E(P)	Z 23 29 40								
	E	Z 30 08								
	E(S)	Z 31 01								
KRP	EP	Z 23 30 02								
CNZ	E(P)	Z 23 30 11								
	E(S)	Z 31 37								
TNZ	E	Z 23 30 37								
WEL	ES	ZNE 23 32 10								
	EL	Z 34 00								
JUN 30	KRP EP	Z 02 47 17	U							
	TNZ EP	Z 02 47 19								
	CNZ EP	Z 02 47 24								
	TUA EP	Z 02 47 28								
	GNZ EP	Z 02 47 30								
	WEL E	Z 03 01 00								
	EL	Z 16 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 30	03 38 48.0	49.5S 164.5E	33KM	4.5						WEL 11
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	P	Z 03 39 57								
	ES	Z 40 50								
ROX	EP	Z 03 40 10								
	E(P*)	Z 19								
	ES	Z 41 11								
	E(S*)	Z 26								
GPZ	E(S)	N 03 42 22								
KAI	E(S)	X 03 42 39								
WEL	EL	Z 03 44 30								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 30	05 27 28.7	29.8S 178.7W	214KM	4.5						WEL 13
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP?	Z 05 29 34								
	E	Z 38								
	E	Z 30 18								
	E	Z 50								
	E	Z 31 00								
	E(S)	Z 11								
KRP	EP	Z 05 29 39								
TUA	E(P)	Z 05 29 45								
	E	Z 30 58								
	E	Z 31 11								
	E(S)	Z 24								
CNZ	EP	Z 05 29 54								
	ES	Z 31 44								
TNZ	EP	Z 05 30 00								
	E	Z 41								
	E	Z 31 41								
	E	Z 32 06								
WEL	EP	Z 05 30 16								

	E	Z	22							
	ES	NE	32 26							
	E	ZNE	29							
GPZ	EP	N	05 30 50							
	ES	N	33 30							
	E	N	32							
COB	ES	E	05 32 44							
KAI	ES	X	05 33 20							
ROX	ES	Z	05 34 34							
MNW	E(S)	Z	05 34 56							

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 30	08 51 51.2	6.9S 129.6E	99KM	4.9						WEL 53
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 09 00 50								
TUA	EP	Z 09 01 02								
CNZ	EP	Z 09 01 35								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 30	10 14 45.8	19.8S 173.9W	33KM	4.8						WEL 23
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 10 19 15								
KRP	EP	Z 10 19 18								
WEL	EP	Z 10 19 50								
	E	Z 59								
	EL	Z 28 00			1	19				
MNW	E(P)	Z 10 20 54								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 30	10 17 51.1	44.1N 149.6E	33KM	4.9						WEL 88
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 10 29 48								
GNZ	EP	Z 10 29 48								
TNZ	E(P)	Z 10 30 02								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 30	13 46 21.6	0.8S 122.5E	36KM	6.3						WEL 62
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	EP	Z 13 56 25								
ROX	EP	ZE 13 56 31								
	E	Z 57 21								
	ES	NE 14 04 42				17	15	10	25	6.5
	E(SSS)	NE 11 00								
	EL	ZNE 14 00			32	17		47	20	
TNZ	EP	Z 13 56 33								
KRP	EP	Z 13 56 36								
	E	Z 57 26								
CNZ	EP	Z 13 56 39								
WEL	EP	Z 13 56 39								
	E	Z 45								
TUA	EP	Z 13 56 43								
	E	Z 54								
GNZ	E(P)	Z 13 56 48								
	E	Z 58								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 30	15 48 43.3	45.9N 150.4E	33KM	6.0						WEL 89
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	E(P)	Z 16 01 14								
ROX	EL	NE 16 31 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUN 30	17 52 35.6	14.3S 173.6E	607KM	4.3						WEL 27
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EP?	Z 17 56 51								
	E?	Z 57 59								
KRP	EP	Z 17 57 02								
	E	Z 11								

	CNZ	EP	Z	17	57	12								
	ROX	EP	Z	17	58	07								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 30	19	47	22.5	0.0N	122.9E		33KM	4.9						WEL 62
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	EP	Z	19	57	28								
	TNZ	E(P)	Z	19	57	36								
	KRP	EP	Z	19	57	39								
	TUA	EP	Z	19	57	46								
	GNZ	E?	Z	19	57	52								
	CNZ	E	Z	19	58	23								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 30	20	08	28.5	46.6N	144.6E		383KM	5.5						WEL 92
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	20	20	41								
		E	Z		22	03								
		E*PP	Z			08								
	TUA	EP	Z	20	20	45								
	CNZ	EP	Z	20	20	45								
		E*PP	Z		22	12								
	TNZ	E(P)	Z	20	20	46								
		E*PP	Z		22	13								
	WEL	E	Z	20	22	20								
	ROX	E(SKS)	E	20	31	56								
		E(SP)	E		34	18								
		E	Z	21	22	31								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 30	23	14	32.9	0.3S	122.6E		56KM	5.3						WEL 62
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	E(P)	Z	23	24	35								
		E	Z			59								
	ROX	ES	E	23	33	12							1 27	5.1
		E	N		40	00								
		EL	NE		48	00				1	13		1 20	
	KRP	EP	Z	23	24	45								
	TUA	E(P)	Z	23	24	55								
	WEL	EPP	Z	23	27	18			0	13				5.5
		ES	Z		33	00			0	28				
		EL	Z		44	00			1	17				
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUN 30	23	38	14.9	7.9S	131.6E		162KM							WEL 91
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	23	46	52								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 01	02	47	33.9	46.3N	146.9E		33KM	5.4						WEL 91
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ELR	Z	03	30	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 01	09	25	54.5	2.0S	141.2E		33KM							WEL 49
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	P	Z	09	34	38								
	WEL	ELR	Z	09	50	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 01	09	46	49.6	45.2N	150.3E		75KM	4.8						WEL 69
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ELR	Z	10	30	00								

	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 01	13	31	06.2	52.7N	168.2W		33KM	5.0						WEL 95
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	P	Z	13	43	10								
	GNZ	EP	Z	13	43	25								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 01	16	04	32.2	28.9S	177.4W		33KM	4.3						WEL 14
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	ES	Z	16	08	49								
	WEL	ES	NE	16	10	04								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 01	22	46	18.7	31.1N	139.6E		147KM							WEL 79
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	22	57	55								
JUL 01	CNZ	P	Z	23	11	48.6								
	GNZ	P	Z	23	11	54								
	MNW	P	Z	23	12	07								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 02	12	11	22.5	1.0N	124.3E		160KM							WEL 62
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	P	Z	12	21	16								
	KRP	P	Z	12	21	22								
	CNZ	P	Z	12	21	26								
	WEL	P	Z	12	21	27								
	GNZ	P	Z	12	21	34								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 02	17	03	42.4	47.7N	128.3W		33KM	4.8						WEL 102
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ELR	Z	17	51	00								
JUL 03	KRP	P	Z	07	52	35								
	GNZ	P	Z	07	52	36								
	CNZ	P	Z	07	52	45								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 03	21	58	08.1	21.9S	170.1E		45KM							WEL 20
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ELR	Z	22	07	30								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 04	10	49	28.8	11.7N	144.5E		33KM	6.0						WEL 60
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	10	59	14								
	WEL	ES	Z	11	08	00			2	20				
		ELR	Z		17	30			4	32				
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 05	19	07	57.8	26.2N	110.2W		29KM	6.0						WEL 97
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	ESKS	Z	19	32	54			2	18				
		ESS	ZNE		39	40			3	20				
		ELQ	ZNE		48	00								
		ELR	ZNE		52	00			15	20	11	20	12	20
	ROX	ELQ	NE	19	55	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JUL 05	23	36	01.5	44.8N	149.6E		54KM	5.5						WEL 89
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	23	48	32								
	WEL	EP	Z	23	49	10								
		SKS	ZNE		59	18			4	20				
		ELR	ZN	24	19	00			16	24				

	ROX	ESKS	NE	00	00	12				10	15	6	20		
		ELQ	NE			22	00			12	22	10	20		
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 05	23	39	10.3	44.7N	149.6E		48KM	5.6						WEL	89
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	23	52	01									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 06	02	14	36.0	26.2N	110.4W		33KM	5.4						WEL	94
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	ESKS	ZNE	02	39	32		2	16	6	20	5	20		
		ESS	ZNE		46	00									
		ELR	ZNE		54	48		28	22	17	22	11	32		
	ROX	ELQ	N	02	57	00				13	34				
		ELR	ZNE	03	02	00		31	22	18	22	26	21		
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 06	07	22	11.7	18.3N	100.4W		100KM	6.3						WEL	99
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	07	35	33									
		EPP	Z		39	21									
	CNZ	EP	Z	07	35	33									
		E	Z			51									
	WEL	IP	ZNE	07	35	42	D	15	32						7.3
		PP	Z		39	50		12	30						7.3
		EPPP	Z		42	16		7	34						
		SKS	ZNE		46	02		9	12	67	58	24	32		
		PS	ZN		48	30		73	48	18	26				
		ESS	ZNE		53	20				34	36	53	32		
		ELQ	NE	08	01	48				83	56	68	64		
		ELR	ZNE		07	00				43	30	89	28		
	ROX	SKS	NE	07	46	42				6	19	16	19		
		PS	NE		49	20				18	26	47	23		
		ESS	NE		54	58				31	28	61	32		
		LQ	NE	08	04	40				97	40				
		ELR	ZNE		09	30				27	25	46	26		
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 06	09	47	26.0	18.0S	174.7W		80KM	4.4						WEL	25
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	09	52	13									
	CNZ	E(P)	Z	09	52	26									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 06	10	06	02.3	6.3S	154.7E		49KM	6.4						WEL	39
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	10	13	06									
	CNZ	P	Z	10	13	15									
	MNW	EP	Z	10	13	38									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 06	12	34	35.8	17.8S	167.5E		33KM	4.3						WEL	24
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	12	39	23									
	CNZ	E(P)	Z	12	39	48									
	WEL	ELR	ZNE	12	48	00									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 06	14	19	46.3	6.9S	129.6E		100KM	5.8						WEL	53
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	MNW	P	Z	14	28	37									
		PCP	Z		29	52									
	KRP	P	Z	14	28	45									
		*PP	Z		29	18									
		PCP	Z			58									
	CNZ	P	Z	14	28	48									
	WEL	P	Z	14	28	50.5									

	ELR	ZE		49	00					2	22				
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 06	19	50	42.1	21.2S	173.8E		22KM	4.8						WEL	20
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	19	54	38									
	CNZ	P	Z	19	54	54									
	WEL	P	Z	19	55	17									
		MAX	ZNE	20	03	00				8	16	4	18	7	18
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 07	07	39	04.2	23.6S	179.9W		462KM	5.5						WEL	18
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	07	42	14.8									
		ES	Z		44	52									
	CNZ	P	Z	07	42	29									
		ES	Z		45	08									
	WEL	P	ZNE	07	42	48									
		E	NE		45	43									
		S	ZNE			47									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 07	14	16	56.1	20.1S	178.0W		617KM							WEL	22
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	14	20	40.0									
	CNZ	EP	Z	14	20	50									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 07	16	28	42.9	11.2S	163.2E		13KM	5.1						WEL	32
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	WEL	ELR	Z	16	45	30									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 07	19	49	16.0	16.1S	174.7W		33KM	4.3						WEL	27
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	EP	Z	19	54	28									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 07	21	31	37.1	17.3S	178.7W		574KM							WEL	25
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	21	35	42									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 08	01	35	02.5	15.3S	173.1W		33KM	4.8						WEL	28
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	GNZ	EP	Z	01	40	19									
	KRP	P	Z	01	40	27									
	WEL	ELR	Z	01	49	00									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 08	07	45	48.6	3.2N	128.4E		50KM	5.5						WEL	61
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	07	55	50									
		E	Z		56	07									
	MNW	EP	Z	07	55	51									
	GNZ	EP	Z	07	56	05									
	WEL	ELR	Z	08	18	00									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST	(DEG)
JUL 08	11	49	23.7	6.4S	154.8E		73KM	5.1						WEL	39
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP	P	Z	11	56	23									
	CNZ	P	Z	11	56	34									
	GNZ	P	Z	11	56	39									
	MNW	EP	Z	11	57	59									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 08	11 55 39.1	5.5S 129.8E	165KM	6.5						WEL 54
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	P	Z 12 04 31								
	I	Z 35								
KRP	P	Z 12 04 33	U							
	E	Z 05 22								
	SCP	Z 09 21								
ROX	P	Z 12 04 38								
	I	Z 41								
	I	Z 05 00								
	I	Z 23								
	SCP	Z 09 26								
	S	ZNE 11 46		8	14	18	18	30	22	6.0
	SS	NE 16 58				58	21	32	19	
	ELR	Z 25 00		26	20					
CNZ	P	Z 12 04 41								
	SCP	Z 09 25								
WEL	P	ZNE 12 04 43.8		5	8					6.4
	S	NE 11 58				34	20	18	16	6.3
	LQ	NE 17 36				209	68	12	20	
GNZ	P	Z 12 04 51.5								
	I	Z 54								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 09	05 47 09.2	15.4N 119.8E	53KM	5.5						WEL 76
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 05 58 43								
ROX	EP	Z 05 58 52								
GNZ	EP	Z 05 58 55								
WEL	EL	Z 06 24 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 09	11 22 05.4	23.3S 175.7W	43KM	5.7						WEL 20
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 11 25 54								
	E	Z 58								
WEL	P	ZNE 11 26 32		5	27					5.1
	ES	ZNE 29 52								
	LR	ZNE 31 00		46	30	51	30	53	24	
ROX	EP	ZNE 11 27 30								
	LQ	NE 33 40				26	34	53	26	
	LR	Z 36 00		26	20					
MNW	P	Z 11 27 35								
	I	Z 39								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 09	12 02 11.9	34.2N 140.9E	49KM	5.0						WEL 82
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 12 14 10								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 09	16 39 49.3	15.5S 167.6E	121KM	6.6						WEL 38
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	IP	Z 16 44 48	U							
	ISCP	Z 51 59								
GNZ	P	Z 16 45 00								
WEL	P	ZNE 16 45 15	U	> 62	18	79	28	20	20	4.4
	S	ZNE 49 40				136	28	87	16	5.3
	LQ	E 51 00						>>	40	
	SCP	Z 52 07								
	SCS	ZNE 55 54								
ROX	P	ZNE 16 45 46	U	102	6	72	7	17	9	7.7
	S	ZNE 49 38				100	18	77	14	7.3
	LQ	NE 54 00				251	44	>>	32	
MNW	P	Z 16 45 47								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 11	01 36 16.3	7.3S 148.0E	58KM	5.1						WEL 41
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 01 43 41								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 11	05 53 53.4	23.8S 177.4W	215KM	4.2						WEL 19
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 05 57 18								
	ES	Z 06 00 57								
WEL	S	Z 06 01 06								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 11	06 40 45.6	11.7S 166.6E	33KM	4.4						WEL 30
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 06 46 31								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 11	06 48 14.5	19.3S 169.6E	143KM	4.6						WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z 06 52 31								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 11	17 07 38.9	16.9S 172.8W	33KM	4.7						WEL 27
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 17 12 44								
KRP	P	Z 17 12 47								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 11	17 32 16.8	15.5S 167.7E	143KM	4.5						WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z 17 37 15.0								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 12	01 45 25.6	38.6N 139.2E	13KM	6.0						WEL 86
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
CNZ	P	Z 01 58 03								
WEL	EPS	Z 02 09 52		1	20					
	LR	Z 25 00		2	36					

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 13	01 14 33.5	20.7S 178.7W	575KM	4.9						WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 01 18 14								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 13	10 03 45.3	25.0S 179.9W	424KM	4.5						WEL 17
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 10 06 50								
	ES	Z 09 16								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 15	08 24 56.5	11.3S 166.1E	130KM	4.7						WEL 31
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 08 30 47								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 17	02 34 26.9	38.2N 23.7E	150KM	5.4						WEL 158
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	PKP	Z 02 54 04.4								
GNZ	PKP	Z 02 54 08								
CNZ	PKP	Z 02 54 39								

		H M S		EPICENTRE	DEPTH	MAG	DIST (DEG) WEL 17
JUL 17		04 54 59.8		24.3S 179.6E	495KM		
				H M S	DIR	AZ TZ	AN TN AE TE MAG
	GNZ	P	Z	04 58 02			
		ES	Z	05 00 29			
	CNZ	EP	Z	04 58 13			
		ES	Z	05 00 48			
	WEL	P	Z	04 58 33.8			
		S	Z	05 01 25			
	MNW	P	Z	04 59 31.0			
JUL 18	MNW	IP	Z	09 22 51.2			
		S	Z	23 04			
	ROX	P	Z	09 23 05.5			
		S	Z	27			
	GPZ	E	N	09 24 19			
		E	N	24			
	KAI	ES	X	09 24 38			

		H M S		EPICENTRE	DEPTH	MAG	DIST (DEG) WEL 62
JUL 18		12 45 47.7		0.2N 123.5E	97KM	5.8	
				H M S	DIR	AZ TZ	AN TN AE TE MAG
	GNZ	P	Z	12 56 07			
		I	Z	40			
	WEL	P	ZNE	12 56 32			
	MNW	P	Z	12 55 46			
		*PP	Z	56 11			

		H M S		EPICENTRE	DEPTH	MAG	DIST (DEG) WEL 28
JUL 19		13 40 06.6		15.1S 173.4W	33KM	4.7	
				H M S	DIR	AZ TZ	AN TN AE TE MAG
	GNZ	P	Z	13 45 26			

		H M S		EPICENTRE	DEPTH	MAG	DIST (DEG) WEL 39
JUL 20		04 29 28.2		6.7S 154.6E	78KM	5.0	
				H M S	DIR	AZ TZ	AN TN AE TE MAG
	GNZ	EP	Z	04 36 42			
JUL 20	GNZ	P	Z	19 08 37			
		ES	Z	11 17			
	CNZ	EP	Z	19 08 47			
	WEL	ES	ZNE	19 12 09			

		H M S		EPICENTRE	DEPTH	MAG	DIST (DEG) WEL 11
JUL 21		02 47 48.6		31.3S 180.0W	433KM	4.0	
				H M S	DIR	AZ TZ	AN TN AE TE MAG
	GNZ	P	Z	02 49 40			
		I	Z	51 00			
		S	Z	09			
	CNZ	EP	Z	02 49 47			
		ES	Z	51 28			
	WEL	EP	Z	02 50 16			
		S	ZNE	52 12			

		H M S		EPICENTRE	DEPTH	MAG	DIST (DEG) WEL 14
JUL 21		03 48 59.1		26.0S 178.0W	222KM	5.8	
				H M S	DIR	AZ TZ	AN TN AE TE MAG
	ONE	EP	E	03 51 39			
		ES	E	54 03			
	GNZ	EP	Z	03 51 55			
		S	Z	54 08			
		SCP	Z	04 00 28			
		SCS	Z	04 08			
	TUA	EP	Z	03 52 00			
		S	Z	54 18			
		SCP	Z	04 00 28			
		SCS	Z	04 07			

	TNZ	EP	Z	03 52 14										
		S	Z	54 58										
		ESCP?	Z	04 00 27										
	CNZ	EP	Z	03 52 23										
		ES	Z	54 38										
	WEL	EP	ZNE	03 52 46			1	20						5.1
		S	ZNE	55 21										
		LR	Z	56 40			7	40						
		SCP	ZN	04 00 33										
		SCS	ZNE	04 11										
	ROX	EP	Z	03 53 43										
		S	Z	57 23										
		EL	NE	58 30					5	18		6	24	
		SCP	Z	04 00 46										
	MNW	EP	Z	03 53 43										
		ES	Z	57 33										
		SCP	Z	04 00 47										

		H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL 41	
JUL 21		21 01 49.5		4.6S 153.3E	60KM	4.9						
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	EP	Z	21 09 20								
	GNZ	EP	Z	21 09 30								
	MNW	P	Z	21 09 43								

		H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL 26	
JUL 22		07 37 52.4		16.3S 167.7E	76KM							
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	P	Z	07 43 10								
JUL 23	TUA	EP	Z	06 29 54								
		ES	Z	31 29								
	ONE	EP	E	06 29 54								
	GNZ	EP	Z	06 29 58								
		ES	Z	31 14								
	WEL	ES	ZNE	06 32 38								
		L	ZNE	34 18			2	18				

		H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL 90	
JUL 24		06 50 52.8		46.9N 153.9E	33KM	5.9						
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	P	Z	07 03 52		1	8					6.3
		EPP	Z	07 43		1	12					6.3
		SKS	ZNE	14 14		2	16	3	16	3	11	
		PS	ZNE	15 43		3	16					
		ESS	N	20 26				5	32			
		PKKP	Z	21 08		3	20					
		LQ	NE	28 00				4	30	8	40	
		LR	ZN	32 40		10	22	9	24			
	ROX	ESKS	NE	07 14 38				3	12	2	8	
		ES	NE	15 18				6	11	8	16	6.8

		H M S		EPICENTRE	DEPTH	MAG					DIST (DEG) WEL 90	
JUL 24		08 12 40.0		47.2N 153.8E	33KM	5.9						
				H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EP	Z	08 25 35		9	6					7.3
		SKS	ZNE	35 59		6	16	21	16	11	22	
		PS	NE	37 42		11	16	21	33	11	26	
		ESS	ZN	42 08		12	26	30	38			
		LQ	NE	50 00				19	38	47	48	
		LR	ZNE	54 00		55	27	36	30	17	28	
	ROX	SKS	NE	08 36 25				12	13	7	12	
		S	NE	37 04				28	12	23	16	7.3
		PS	N	38 14				14	24			
		ELQ	N	52 00								
		ELR	ZN	59 00		11	18	13	18			

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 24	10 54 52.5	13.1N 145.0E	43KM	5.6					WEL	61
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP P	Z 11 04 45									
GNZ EP	Z 11 04 53									
WEL P	ZNE 11 05 00									
MNW P	Z 11 05 10									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 24	13 25 18.3	47.0N 153.7E	33KM	5.7					WEL	91
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
WEL ESKS	ZN 13 48 44			1	20					
EPS	Z 49 56			1	16					
ESS	ZN 54 58			1	20					
ELQ	NE 14 04 00					4	36	6 36		
ELR	ZNE 06 00			9	20	6	24	5 20		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 24	13 47 48.6	6.6S 154.8E	62KM	5.6					WEL	39
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
GNZ EP	Z 13 55 02									
ROX EP	Z 13 55 24									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 24	17 02 49.2	47.1N 153.6E	33KM	5.8					WEL	91
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
WEL P	Z 17 15 49			2	22					6.3
EPP	Z 19 08			2	20					6.1
ESKS	ZNE 26 08			3	16	6	18	3 20		
EPS	ZN 27 44			4	36	5	26			
ESS	ZN 32 30									
ELQ	NE 40 00					8	44	7 44		
LR	ZNE 44 00			19	26	13	24	6 20		
ROX ESKS	NE 17 26 36					3	12	2 10		
ES	NE 27 15					7	13	6 15		6.7
ELR	Z 50 00									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 25	12 20 22.2	19.9S 176.2W	205KM	5.3					WEL	23
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
GNZ EP	Z 12 24 35									
ES	Z 27 57									
KRP P	Z 12 24 36									
CNZ EP	Z 12 24 44									
ES	Z 28 31									
WEL EP	ZN 12 25 07									
I	ZNE 11									
ES	ZNE 28 57									
ROX EP	Z 12 26 02									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 25	18 18 08.9	17.1S 172.9W	33KM	4.6					WEL	26
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP P	Z 18 23 13									
CNZ EP	Z 18 23 24									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 25	19 31 07.0	27.9S 70.9W	26KM	6.1					WEL	88
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
WEL P	Z 19 44 02									
E	Z 53 28			1	24					
SKS	ZNE 54 26			5	16	5	28	10 12		
PS	Z 55 20			5	28					
ESS	ZNE 20 00 44			6	28					
LQ	N 07 36					11	32			
LR	ZNE 11 48			24	30	11	32	8 24		
CNZ P	Z 19 44 03									

KRP P	Z 19 44 07									
ROX ESKS	NE 19 54 29					4	27	8 24		
ESS	NE 20 01 00							5 20		
ELR	ZNE 12 00			9	18	4	22	7 22		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 25	21 29 33.2	2.9N 128.2E	22KM	5.1					WEL	61
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
CNZ EP	Z 21 40 01									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 26	06 28 32.7	23.4S 180.0E	555KM	4.9					WEL	18
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
CNZ EP	Z 06 31 53									
ES	Z 34 38									
WEL ES	ZNE 06 35 08									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 28	10 46 00.6	16.0S 172.9W	33KM	4.6					WEL	27
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP EP	Z 10 51 20									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 28	12 22 43.0	51.3S 139.3E	34KM						WEL	26
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
ROX P	Z 12 27 21									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 28	18 40 94.3	51·2 S 139·0E	33KM	5·3					WEL	26
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
MNW EP	Z 18 44 32									
ROX P	ZNE 18 44 41			5	14	3	15	6 16		5.7
S	ZNE 48 33			16	12	92	18	87 18		6.6
ELR	Z 49 45			26	13					
WEL P	Z 18 45 37			5	12					6.0
ES	ZNE 50 08			7	24	32	16	19 26		6.3
ELQ	NE 51 00					148	36	73 44		
MAX	ZNE 53 00			26	20	108	16	60 23		
KRP EP	Z 18 46 08									
GNZ EP	Z 18 46 09									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 28	19 50 08.9	15.1S 167.7E	123KM						WEL	27
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP P	Z 19 55 13									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 28	21 38 43.5	14.3N 96.2E	33KM	5.5					WEL	91
		H M S	DIR	AZ	TZ	AN	TN	AE TE		MAG
KRP P	Z 21 51 45									
WEL P	Z 21 51 46			2	5					6.8
ESKS	NE 22 02 16					3	7	3 8		
ESS	ZE 08 24			2	20			6 25		
LR	ZNE 22 10			31	23			26 23		
ROX ESKS	E 22 02 26									
ESS	E 08 12							4 26		
JUL 29 KRP P	Z 02 18 09									
JUL 29 WEL EP	Z 10 33 25									
S	ZNE 35 22									
ECZ EP	Z 10 32 34									
ES	Z 33 46									
GNZ EP	Z 10 32 40									
ES	Z 34 02									
ONE EP	E 10 32 44									
KRP EP	Z 10 32 46									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 30	01 22 10.1	17.7S 178.2W	643KM	4.3						WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 01 26 10.7									
GNZ P	Z 01 26 12									
WEL P	Z 01 26 38									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 30	05 16 03.3	11.1N 86.2W	42KM	5.7						WEL 104
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL P	Z 05 34 30									
PS	Z 43 22			1	24					
ESS	ZE 49 32			2	32					
ELR	ZNE 06 04 00			2	22			2	20	

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 30	13 12 54.3	6.0S 154.4E	79KM							WEL 49
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 13 19 59									
GNZ P	Z 13 20 13									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 30	18 15 20.1	1.4S 149.2E	90KM	4.7						WEL 49
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 18 23 15									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 31	02 36 40.0	50.0S 164.0E	33KM	4.9						WEL 12
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW IP	Z 02 37 52.0	D								
S	Z 38 47									
ROX P	Z 02 38 04.0									
S	Z 39 10									
GPZ EP	N 02 38 45									
E	N 40 11									
E	N 31									
KAI E	X 02 39 00									
ES	X 40 33									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 31	04 05 06.2	44.6N 151.6E	53KM	5.5						WEL 88
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 04 17 40									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 31	05 52 18.8	6.1S 149.4E	63KM	5.9						WEL 42
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 05 59 46.5									
PCP	Z 06 01 52									
SCP	Z 05 45									
GNZ P	Z 06 00 02									
WEL P	ZNE 06 00 03			11	25	9	28	6	28	6.2
PP	ZNE 01 56			7	14					6.2
S	ZNE 06 16			38	44	52	28	45	32	6.7
LR	ZNE 09 32			> 61	28	145	34	185	38	
ROX EP	ZNE 06 00 20			3	8	6	22	4	24	6.1
ES	ZNE 06 37			5	14	26	24	27	22	6.8
LQ	NE 10 00					24	24	32	26	
ELR	Z 12 30			25	24					

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
JUL 31	06 26 36.7	25.7S 179.6W	429KM							WEL 15
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ONE P	E 06 29 13									
ES	E 31 23									
GNZ P	Z 06 29 25									
ES	Z 31 48									

KRP P	Z 06 29 26.8											
ES	Z 31 58											
WEL EP	ZNE 06 30 02											
ES	ZNE 32 48											
AUG 01 WEL EL	Z 00 48 00											
AUG 01 KRP EP	Z 16 53 42											

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
AUG 02	07 03 11.4	3.8S 123.2E	37KM	5.4						WEL 59
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 07 13 06									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
AUG 02	08 36 16.9	56.2N 149.9W	31KM	5.4						WEL 102
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL EL	Z 09 23 00									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
AUG 03	01 48 23.3	19.8N 70.7W	7KM	5.2						WEL 121
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL ESSS	Z 02 27 00									
EL	Z 43 00									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
AUG 03	07 44 44.3	22.6N 121.3E	33KM	5.4						WEL 81
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 07 56 47									
WEL E(PS)	Z 08 08·00									
EL	Z 23 00									
ROX EP	Z 07 56 56									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
AUG 04	03 36 42.0	2.5S 139.8E	33KM	5.7						WEL 50
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 03 45 20									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
AUG 04	17 24 29.2	46.5N 151.1E	101KM	5.9						WEL 90
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP?	Z 17 36 53									
E	Z 37 05									
GNZ E(P)	Z 17 37 11									
WEL EP	Z 17 37 18									
EL	Z 18 06 00									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
AUG 05	01 47 39.1	17.8S 176.4W	16KM	4.9						WEL 25
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL EL	Z 01 59 00									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
AUG 05	22 23 13.0	41.1S 74.9W	33KM	5.1						WEL 77
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL P	Z 22 35 00		D	12	6					7.1
ES	E 44 36									
EPS	Z 45 18									
ESS	Z 49 00									
EL	Z 58 00									
ROX EP	Z 22 35 00									
E(S)	NE 44 48									
E(PS)	NE 45 36									
EL	NE 55 00									
GNZ EP	Z 22 35 01.5	D								
E	Z 12									
MNW P	Z 22 35 03.5									
KRP P	Z 22 35 11.0	D								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 06	02 33 39.5	31.5N 129.9E	197KM	5.5					WEL 83
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 02 45 30							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 06	13 41 36.5	4.2S 140.5E	50KM						WEL 49
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP?	Z 13 50 01							
	E	Z 04							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 06	17 03 28.9	22.5S 179.5W	504KM	5.3					WEL 19
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ	EP	Z 17 06 51							
	E(S)	Z 09 38							
KRP	P	Z 17 06 51.5	D						
WEL	P	Z 17 07 21.0	D						
	E	E 10 28							
	ES	NE 31							
ROX	EP	Z 17 08 10.5							
	E	Z 17							
	ESCP	Z 14 16							
MNW	EP?	Z 17 08 17	U						
	E	Z 17.5	D						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 06	18 24 50.5	56.9N 152.1W	39KM	5.6					WEL 102
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	EL	Z 19 12 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 07	15 31 18.0	14.0N 91.9W	89KM	5.0					WEL 102
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	EL	Z 16 18 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 08	14 59 41.2	31.7N 140.2E	110KM	5.7					WEL 79
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 15 11 22	D						
WEL	EP	Z 15 11 33							
ROX	EP	Z 15 11 46							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 08	15 45 10.9	12.5N 87.8W	63KM	5.8					WEL 114
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
WEL	EL	Z 16 33 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 08	18 42 59.0	20.9S 176.7W	354KM	4.5					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	E(P)	Z 18 46 44							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 08	20 59 43.6	17.5S 175.0W	193KM	4.8					WEL 25
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	P	Z 21 04 25							
TNZ	EP	Z 21 04 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 09	01 48 12.8	17.8S 178.6W	537KM	5.6					WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 01 52 17							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 09	06 31 29.3	17.1S 173.1W	33KM	4.5					WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	E(P)	Z 06 36 34							
	E	Z 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 10	14 44 40.1	14.1S 166.7E	44KM						WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 14 50 03							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 10	21 40 10.4	6.2S 154.5E	105KM	5.7					WEL 39
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 21 47 09							
TNZ	EP	Z 21 47 16							
	E	Z 27							
MNW	EP	Z 21 47 43							
ROX	E(P)	Z 21 47 45							
	EL	NE 22 00 00							
WEL	EL	Z 21 58 00						1 22	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 11	05 49 58.7	18.0S 176.9W	329KM	4.3					WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 05 54 19							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 11	12 32 00.2	14.7S 167.8E	140KM	4.7					WEL 27
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP?	Z 12 37 07							
	I	Z 09	U						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 12	06 51 49.9	48.9N 153.7E	127KM	5.6					WEL 92
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	EP	Z 07 04 28.5							
	E	Z 08 45							
	E	Z 09 10							
WEL	EP	Z 07 04 48							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 13	00 31 14.1	5.4S 154.3E	383KM	6.0					WEL 40
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
ONE	ES	E 00 42 47							
KRP	EP	Z 00 37 56.5							
	EPCP	Z 40 04							
	ES	Z 43 16							
TNZ	EP	Z 00 38 01							
	E	Z 03	U						
	EPCP	Z 40 06							
	ES	Z 43 19							
ECZ	EP?	Z 00 38 04							
	E	Z 06							
	E(S)	Z 43 32							
	E(PCS)	Z 49							
TUA	P	Z 00 38 08.0							
	EPCP	Z 40 08							
	E	Z 43 21							
	E(S)	Z 36							
	E	Z 47							
	ESCS	Z 47 35							
GNZ	EP	Z 00 38 09							
	E	Z 43 23							
	E(S)	Z 39							
	E(PCS)	Z 47							
COB	EP	E 00 38 09.5							

		E	E		43	24								
		ES	E			38								
		ESCS	E		47	31								
	WEL	IP	ZNE	00	38	15	D		21	7	9	6	3	8
		E	Z		39	26	U							
		E(PCP)	Z		40	04								
		E	ZNE		43	24								
		IS	ZNE			49	UE		23	15	28	14	39	10
		E	N			51								
		E	NE		44	06								
		E(L)	ZNE		46	00			31	19			33	17
	KAI	EP	X	00	38	16								
		IS	X		43	49.5								
	GPZ	P	N	00	38	25								
		E	N		39	37								
		E(PCP)	N		40	18								
		E	N		43	33								
		ES	N		44	09								
	ROX	EP?	Z	00	38	28	U							
		E	ZN			30	DN		11	6				
		I	Z			31	U							
		E	Z		39	34								
		E(PCP)	Z		40	19								
		E	N		41	58								
		ES	NE		44	15					18	16		
		EL	ZNE		47	00					23	21		

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 13	04	28	23.2	6.0S 130.4E	127KM	5.0					WEL 53
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	E		Z	04 37 49							
GNZ	E		Z	04 38 08							
WEL	EL		Z	04 55 00							
ROX	EP		Z	04 38 39							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 13	10	48	34.0	19.3S 177.6W	551KM	4.3					WEL 93
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	EP		Z	10 52 28							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 14	21	48	31.2	18.8S 168.2E	26KM	4.6					WEL 93
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	EP		Z	21 53 04							
TNZ	EP?		Z	21 53 13							
	E		Z	24							
GNZ	EP		Z	21 53 20							
WEL	EP		Z	21 53 38							
	ES		ZNE	57 48						2	20 5.8
	EL		ZNE	22 00 00			2	20			
ROX	EL		NE	22 00 00							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 16	19	40	53.9	15.0S 175.8W	332KM	4.6					WEL 97
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	P		Z	19 45 41							
MNW	P		Z	19 47 05	D						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 17	11	45	01.2	18.0S 178.3W	648KM	5.1					WEL 94
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	EP		Z	11 48 59							
TNZ	EP		Z	11 49 14							
WEL	P		Z	11 49 27.5							
	ES		E	53 04							
MNW	P		Z	11 50 22.2	U						
	E		Z	52 05							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 17	14	54	01.4	42.6N 142.8E	33KM	5.1					WEL 88
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	P		Z	15 06 37							
	E		Z	52							

AUG 17	WEL	EL	ZNE	15	28	00								
	ROX	EL	NE	15	32	00								

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 17	15	15	18.9	72.2N 1.7E	33KM	5.4					WEL 149
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	PKP		Z	15 34 56							
TUA	EPKP		Z	15 34 58							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 17	16	38	44.4	51.5N 177.8E	42KM	5.4					WEL 92
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	EP		Z	16 51 30							
	E		Z	51							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 17	22	02	35.1	24.5S 176.8W	33KM	4.5					WEL 18
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
KRP	E(P)		Z	22 06 11							
WEL	ES		N	22 09 48							
	E		Z	58							
	EL		Z	12 00							
MNW	EP		Z	22 07 53							
	E		Z	08 01							

AUG 18	KRP	EP	Z	01	45	03								

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 18	04	44	58.0	26.4S 71.5W	8KM	6.4					WEL 89
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
WEL	IP		Z	04 57 55	U						
	E(PCP)		Z	58 04							
	EPP		Z	05 01 24			1	24			5.9
	ESKS		ZNE	08 32							
	E(SP)		Z	10 00					1	25	3 12
	ESS		ZNE	14 36							
	ESSS		ZE	17 36							
	ELQ		NE	22 00							
	ELR		ZNE	26 00							
ROX	P		Z	04 57 58			11	17	4	17	8 17
	ESKS		NE	05 08 38							
	ESS		NE	15 00							
	ELQ		NE	22 00							
	ELR		ZNE	27 00							
MNW	P		Z	04 58 00.8	U				2	19	4 19
	E(PCP)		Z	10							
KRP	IP		Z	04 58 01	U						
	E(PCP)		Z	10							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 18	11	09	43.4	0.5N 67.2E	33KM	5.1					WEL 103
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
WEL	EL		Z	11 57 30							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 19	09	33	10.0	28.2N 52.6E	50KM	5.6					WEL 132
				H M S	DIR	AZ	TZ	AN	TN	AE	TE MAG
WEL	EL		Z	10 35 00							

Date	H M S	Epicentre	Depth	Mag	Dist (deg) WEL	Station	Phase	Comp	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
AUG 19	15 20 13.9	28.2N 52.7E	52KM	5.6	131												
						WEL	EL	Z	16 23 00								
AUG 20	08 32 43.1	29.7S 177.9W	80KM	4.4	13												
						WEL	E	E	08 36 53								
							ES	NE	37 57								
AUG 20	12 48 47.7	37.4S 78.3E	33KM		71												
						TUA	E?	Z	13 00 48								
						KRP	E?	Z	13 00 55								
							E	Z	01 14								
						ROX	E(L)	N	13 16 00								
						WEL	E	Z	13 20 00								
							EL	Z	22 00								
AUG 20	16 17 48.2	60.3S 27.1W	33KM		77												
						KRP	EP	Z	16 29 56								
							E(PCP)	Z	30 11								
AUG 21						KRP	EP	Z	17 08 45								
AUG 21	23 49 13.6	18.7S 169.1E	81KM		23												
						KRP	EP	Z	23 53 44	U							
AUG 21	23 58 56.6	12.2S 110.5E	35KM	5.3	63												
						KRP	EP	Z	00 09 22								
						ROX	E(SS)	N	00 24 00								
							EL	N	28 00								
						WEL	E(SS)	Z	00 25 00								
							EL	Z	28 00		2	20					
AUG 23	15 24 05.3	6.1S 149.4E	63KM	4.9	42												
						KRP	EP	Z	15 31 31								
							E	Z	33 39								
						ROX	ES	NE	15 38 22				6	20	6	20	6.1
							ESS	NE	41 44								
							EL	NE	45 00				7	22	9	22	
						WEL	EPP	Z	15 33 29								
							ES	ZNE	38 04								
							ESS	ZNE	41 18								
							EL	ZNE	44 00		22	17	24	17	13	17	
							E	Z	16 31 48		2	20					
AUG 24	02 01 33.8	20.0S 175.7W	152KM	4.5	23												
						TUA	EP	Z	02 05 54								
						TNZ	EP	Z	02 06 09								
						WEL	E?	Z	02 06 23								
AUG 24						KRP	E(P)	Z	07 33 20								
AUG 24						ECZ	E	Z	10 40 38								

Date	H M S	Epicentre	Depth	Mag	Dist (deg) WEL	Station	Phase	Comp	H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
						GNZ	E	Z	10 40 39								
							E	Z	49								
							E	Z	54								
						KRP	E(P)	Z	10 40 45								
						TUA	EP	Z	10 40 46								
						ONE	E	E	10 40 52								
							E	E	41 28								
						WEL	EL	Z	10 44 00								
AUG 24	17 26 15.1	0.2N 123.8E	127KM	5.4	62												
						TNZ	EP	Z	17 36 16								
						KRP	EP	Z	17 36 17								
							E	Z	51								
AUG 24						WEL	E(L)	Z	22 41 00								
							EL	Z	51 00								
AUG 25	05 46 12.1	5.4S 147.1E	203KM	5.0	43												
						KRP	P	Z	05 53 41	U							
						TNZ	EP	Z	05 53 44								
						TUA	EP	Z	05 53 53								
						GNZ	EP	Z	05 53 55								
AUG 25	11 11 53.6	36.1N 28.7E	50KM	4.9	153												
						KRP	EPKP?	Z	11 31 53								
							E	Z	55								
							E	Z	32 03								
						WEL	E?	Z	11 32 27								
AUG 25	13 47 20.6	78.2N 126.6E	50KM	6.1	123												
						KRP	EPKP	Z	14 06 06								
							PP	Z	07 32								
						GNZ	EPKP	Z	14 06 06								
						WEL	EPP	Z	14 07 49								
							E	Z	16 00								
							EPS	Z	17 36								
							EPPS	Z	19 00								
							ESS	Z	24 48								
							ESSS	ZNE	28 00								
							EL	ZNE	39 00		14	22	12	22	5	22	
						ROX	EPKP	Z	14 06 14								
							E(PP)	N	08 00								
							E	NE	17 00								
							SS	NE	26 00								
							ESSS	N	30 00								
							EL	ZNE	40 00				8	19	7	20	
AUG 25	21 03 30.0	19.5S 176.9W	444KM	4.2	23												
						KRP	EP	Z	21 07 12								
						TNZ	EP	Z	21 07 28								
AUG 26	12 59 31.1	0.2N 126.6E	33KM	4.5	60												
						TUA	EP	Z	13 09 38								
AUG 26						GNZ	EP	Z	14 53 58								
							E	Z	55 13								

		ES	Z		20								
	TUA	EP	Z	14	54 04								
		E	Z		55 04								
		ES	Z		28								
	KRP	EP	Z	14	54 08								
		E	Z		26								
		E	Z		55 43								
	WEL	E?	Z	14	54 16								
		ES	ZNE		56 37								
		E	Z		39								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 26	19	31	40.8	20.3S	178.3W	510KM	4.3						WEL 22
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		P	Z	19 35 24								
	TNZ		EP?	Z	19 35 40								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 27	01	34	26.7	23.7N	143.6E	39KM	5.1						WEL 71
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	01 45 22								
	TUA		E(P)	Z	01 45 31								
	GNZ		E	Z	01 46 37								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 27	04	45	02.6	5.6S	133.9E	9KM	5.1						WEL 51
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	TUA		EP	Z	04 54 09								
	WEL		EL	Z	05 13 00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 27	07	53	54.8	17.5S	173.0W	33KM	5.3						WEL 26
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ		EP	Z	07 58 52								
	KRP		EP	Z	07 58 54								
	TUA		EP	Z	07 58 56								
	TNZ		EP	Z	07 59 12								
	WEL		E	Z	07 59 34								
			E	Z	55								
			EL	ZE	08 06 00			3	18			4	20
	ROX		EL	NE	08 08 00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 27	07	53	54.8	17.5 S	173.0 W	33 KM	5.3						WEL 16
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	04 39 14								
			I	Z	40 33	D							
			E(SCP)	Z	45 53								
	GNZ		EP	Z	04 39 16								
			E	Z	40 34								
			ES	Z	42 20								
			E(SCP)	Z	45 55								
	WEL		EP	Z	04 39 43								
	TNZ		EP	Z	04 39 29								
			E	Z	40 47								
	ROX		EP	Z	04 40 33								
			E(SCP)	Z	46 19								
	MNW		EP	Z	04 40 39								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 28	08	25	08.9	18.2S	174.6W	70KM	4.4						WEL 25
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	08 29 56								
	WEL		EP?	Z	08 30 17								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 28	13	21	13.5	7.1N	95.1E	33KM	5.1						WEL 87
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	13 33 56								
	CNZ		EP	Z	13 33 56								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 28	13	22	05.0	7.6N	95.6E	33KM	5.2						WEL 87
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ		EP	Z	13 34 47								
	KRP		EP	Z	13 34 48								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 28	14	42	18.5	24.4S	179.8E	549KM	4.9						WEL 17
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	14 45 19								
	CNZ		EP	Z	14 45 30								
	WEL		EP	Z	14 45 49								
AUG 29	KRP		EP	Z	05 35 53								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 29	12	49	58.3	13.3S	172.4E	33KM	4.9						WEL 28
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	12 55 16								
	CNZ		EP	Z	12 55 20								
	WEL		EL	Z	13 03 00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 29	13	25	25.9	13.7S	172.6E	33KM	5.0						WEL 28
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	13 30 43								
	CNZ		EP	Z	13 30 58								
	WEL		EL	Z	13 38 00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 29	17	26	55.5	20.7S	174.1W	33KM	4.4						WEL 23
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	17 31 20								
			E	Z	33 18								
AUG 29	KRP		EP	Z	17 44 59								
	WEL		EL	Z	18 01 00								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 29	21	36	50.8	14.9S	172.8W	33KM	4.7						WEL 28
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	21 42 16								
	TNZ		EP	Z	21 42 32								
AUG 30	WEL		EL	Z	01 39 00								
AUG 30	KRP		EP	Z	04 51 38								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 30	07	57	38.0	18.9S	169.5E	210KM	4.0						WEL 23
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	08 01 53								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
AUG 30	08	11	42.5	15.8S	174.9W	286KM	4.9						WEL 27
				H	M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP		EP	Z	08 16 30								
			E	Z	17 24								
			E	Z	50								

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 45 AE	TE	MAG
AUG 30			08	47	34.7	5.0S 144.5E	93KM	5.8								
	KRP	EP	Z	08	55	31			D							
	CNZ	EP	Z	08	55	38										
	WEL	EP	Z	08	55	44										
		E	Z			49										
		MAX	Z	09	15	00				0	18					
	MNW	EP	Z	08	55	46										
	ROX	EP	Z	08	55	49										

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 34 AE	TE	MAG
AUG 30			17	55	17.0	9.8S 159.1E	35KM	4.8								
	KRP	EP	Z	18	01	40										
AUG 30	KRP	EP	Z	18	21	27										
AUG 30	WEL	EL	Z	20	43	00										

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 28 AE	TE	MAG
AUG 30			20	37	09.2	13.6S 172.4E	33KM	4.9								
	KRP	EP	Z	20	42	26										
		E	Z		43	03										
	CNZ	EP	Z	20	42	42										
		E	Z		43	16										
	WEL	EL	Z	20	50	00										
	ROX	EL	NE	20	52	00										

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 23 AE	TE	MAG
AUG 30			21	44	56.9	19.9S 176.0W	253KM	5.6								
	KRP	EP	Z	21	49	05										
		E	Z		51	27										
		E	Z		52	39										
	CNZ	EP	Z	21	49	15										
		E	Z		52	41										
		E	Z			53										
	TNZ	EP	Z	21	49	21										
	WEL	EP	Z	21	49	36										
		E	Z		53	31										
		ES	ZNE			36										
	ROX	EP	Z	21	50	30										
		E	Z			33										
	MNW	EP	Z	21	50	34			D							
		E	Z			41			D							

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 28 AE	TE	MAG
AUG 30			22	30	24.8	13.7S 172.5E	33KM									
	KRP	EP	Z	22	35	42										
	CNZ	E	Z	22	35	54										
		E	Z		36	02										
	WEL	EL	Z	22	43	00										

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 61 AE	TE	MAG
AUG 31			02	14	20.3	35.2S 106.0W	33KM	5.2								
	KRP	EP	Z	02	24	31										
	CNZ	E(P)	Z	02	24	32										
	WEL	ES	Z	02	33	00				1	26					
		ESS	Z		37	00										
		EL	ZE		42	00				5	19			4	20	
	ROX	ES	E	02	33	30								1	14	5.7
		EL	NE		43	00								2	19	

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 54 AE	TE	MAG
SEP 03	KRP	E	Z	10	21	09											
		E	Z		22	13											
	WEL	EL	Z	10	29	00											

				H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 54 AE	TE	MAG
SEP 04				10	34	13.1	4.0S 131.4E	33KM	5.9								
	KRP	IP	Z	10	43	26.3				D							
	CNZ	EP	Z	10	43	30											
	WEL	EP	Z	10	43	33						2	18				5.7
		EPP	Z		45	42						1	20				5.7
		ES	NE		51	00								4	18	5 40	5.8
		ELQ	NE		57	00								20	40	14 36	
		LR	Z		59	00						45	21				
	ROX	EP	Z	10	43	38											
		ES	NE		50	54											
		ELQ	NE		56	00								3	19	6 20	5.9
		ELR	ZNE		59	00						11	18	11	18	15 21	

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 17 AE	TE	MAG
SEP 04			14	50	33.5	24.3S 179.1E	548KM									
	GNZ	EP	Z	14	53	34										
		ES	Z		56	05										
	KRP	EP	Z	14	53	35										
	WEL	EP	ZNE	14	54	06										
		ES	ZNE		56	55										

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 54 AE	TE	MAG
SEP 04			17	10	28.4	3.9S 131.5E	33KM	4.8								
	KRP	EP	Z	17	19	41										
	WEL	EL	Z	17	37	00										

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 40 AE	TE	MAG
SEP 05			02	53	50.6	5.8S 154.0E	69KM	6.4								
	KRP	IP	Z	03	01	00				U							
		E(PCP)	Z		03	17											
		ES	Z		07	03											
	CNZ	IP	Z	03	01	09.0				U							
	WEL	IP	ZNE	03	01	20.4						11	19	8	8		6.6
		EPP	ZE		02	38						9	18			6 8	6.3
		ES	ZNE		07	18											
		ELQ	ZNE		10	24						17	19	47	36	52 40	
		ELR	Z		12	30						56	33				
	ROX	EP	ZNE	03	01	35						5	6				6.5
		EPP	ZNE		03	18											
		ES	ZNE		07	48										9 10	6.5
		ELQ	NE		11	00								33	28	47 30	
		ELR	ZNE		13	00						46	23	48	24	37 21	

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 40 AE	TE	MAG
SEP 05			04	09	51.6	6.0S 153.8E	81KM	4.8								
	KRP	EP	Z	04	16	57										
	GNZ	EP	Z	04	17	12										

			H	M	S	EPICENTRE	DEPTH	MAG	DIR	AZ	TZ	AN	TN	DIST (DEG) WEL 40 AE	TE	MAG
SEP 05			07	27	21.0	5.9S 153.7E	106KM	4.6								
	KRP	EP	Z	07	34	25										
	GNZ	EP	Z	07	34	41										
SEP 06	KRP	EP	Z	02	34	49										
	GNZ	EP	Z	02	34	50										

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 06	03 27 47.9	17.8S 168.2E	33KM	4.8					WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 03 32 30								
GNZ EP	Z 03 32 47								
WEL E(S)	Z 03 37 25								
EL	ZN 39 00			3	28				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 06	09 21 22.4	20.3S 178.9W	621KM	4.2					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 09 25 01								
GNZ EP	Z 09 25 02								
WEL EP	Z 09 25 29								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 06	11 15 27.9	6.0S 153.7E	90KM	4.5					WEL 41
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 11 22 33								
GNZ EP	Z 11 22 47								
E	Z 49								
WEL EL	Z 11 34 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 06	18 41 01.8	10.0N 140.2E	33KM	5.1					WEL 61
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 18 50 54								
GNZ EP	Z 18 51 06								
WEL EP	Z 18 51 07.5			2	5				6.4
ES	Z 59 36								
ESSS	Z 19 06 12			2	28				
ELR	Z 11 00			3	22				
ROX EP	Z 18 51 14								
E(LQ)	NE 19 07 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 06	18 57 20.4	7.1N 93.7E	46KM	5.2					WEL 88
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 19 10 24								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 06	20 34 22.2	4.7S 144.8E	76KM	5.7					WEL 45
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ EP	Z 20 42 36								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	05 55 18.7	20.5S 176.2W	33KM	4.5					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 05 59 42								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	07 54 57.9	5.8N 126.1E	177KM	5.4					WEL 65
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 08 05 10								
MNW EP	Z 08 05 11								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	11 15 35.1	17.4S 173.5W	33KM	5.0					WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ EP	Z 11 20 32								
KRP IP	Z 11 20 33.2								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	13 40 03.5	29.6N 142.0E	77KM	5.6					WEL 77
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 13 51 32								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	14 09 19.2	23.8S 177.5W	213KM	4.7					WEL 19
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 14 12 44								
WEL EL	Z 14 18 30								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	17 05 23.4	20.4S 178.3W	539KM	5.4					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ EP	Z 17 09 05								
KRP IP	Z 17 09 06.0	D							
WEL EP	ZNE 17 09 34								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 10	17 37 08.7	33.0S 69.4W	80KM	5.4					WEL 85
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 17 49 49								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 11	11 04 39.0	26.4S 177.8W	217KM	4.7					WEL 16
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
GNZ EP	Z 11 07 04								
ES	Z 09 35								
KRP E?	Z 11 08 30								
CNZ ES	Z 11 10 07								
WEL ES	ZNE 11 10 50								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 12	10 48 19.2	24.7S 170.5E	33KM	4.0					WEL 17
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 10 51 30								
E	Z 31								
GNZ EP	Z 10 51 54.5								
E	Z 52 03								
WEL EL	Z 10 56 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 12	12 43 19.0	4.4S 144.0E	120KM	6.3					WEL 46
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP IP	Z 12 51 18.2								
E*PP	Z 42								
ESCP	Z 56 44								
WEL EP	ZNE 12 51 32								
ES	ZNE 58 06			17	17	11	12	7 8	6.5
E	ZNE 13 02 00					7	25		
ELR	Z 04 54			7	38				
GNZ EP	Z 12 51 32.5								
E?	Z 57 03								
ES	Z 58 09								
ROX EP	Z 12 51 35								
ES	NE 58 14								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 12	15 19 22.3	17.4S 179.9W	561KM	5.8					WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP EP	Z 15 23 26								
E(*PP)	Z 24 46								
GNZ EP	Z 15 23 29								
ES	Z 26 51								
WEL EP	ZE 15 23 54								
E	Z 26 38								
ES	ZNE 27 29								
ROX EP	Z 15 24 39								
E(*PP)	Z 26 21								
ES	Z 28 46								
MNW EP	Z 15 24 45								
E(*PP)	Z 26 23								

SEP 12	KRP	IP	Z	17	52	33.3	U								
	GNZ	EP	Z	17	52	34									
SEP 12	KRP	EP	Z	18	05	14									
	GNZ	EP	Z	18	05	29									
	WEL	EL	Z	18	11	00									
SEP 12	MNW	EP	Z	22	17	39									
		E?	Z		18	14									
	GPZ	EP	N	22	18	38									
			N		19	59									
SEP 12	MNW	EP	Z	22	25	38									
		E(S)	Z		26	26									
	GPZ	EP?	N	22	26	24									
		ES	N		27	57									
SEP 12	MNW	E(P)	Z	22	27	20									
		E(S)	Z		28	06									
	GPZ	E	N	22	30	18									
SEp 12	MNW	EP	Z	22	32	39									
		E	Z		33	14									
	GPZ	E	N	22	33	23									
		E	N		34	48									

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 13	00	21	06.7	49.3S	163.7E	33KM								WEL 11
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	EP	Z	00	22	07								
		ES	Z			56								
	GPZ	EP?	N	00	23	00								
		ES	N		24	32								
	WEL	EP?	Z	00	23	42								
		ES	ZNE		25	35						17	28	
	KRP	EP	Z	00	24	18								
		ES	Z		27	16								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 13	02	50	18.2	49.4S	162.9E	33KM								WEL 12
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	EP	Z	02	51	10								
		E	Z			57								
	GPZ	EP	N	02	52	03								
		E	N		53	25								
	KRP	EP	Z	02	53	21								
	WEL	EL	E	02	57	00								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 13	04	47	45.4	6.3S	127.8E	373KM	5.0							WEL 54
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	04	56	31								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 13	11	03	50.0	19.8S	177.7W	357KM	5.2							WEL 22
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	11	07	49								
	GNZ	EP	Z	11	07	52								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 13	15	07	31.9	49.4S	163.3E	33KM								WEL 11
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	IP	Z	15	08	32.0								
			Z		09	20								
	ROX	ES	ZNE	15	09	42								
	GPZ	EP	N	15	09	23								
		ES	N		10	50								

	KRP	EP	Z	15	10	43									

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 13	15	52	28.8	15.8S	172.9W	33KM	4.7							WEL 28
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	15	57	37								
SEP 15	WEL	E(P)	ZNE	05	37	52								
		E	ZNE		40	57								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 15	05	37	45.4	0.1S	124.6E	33KM	5.3							WEL 61
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	05	47	51								
	WEL	IP	Z	05	47	58.7	U							
		E?	Z	06	01	12								
		EL	ZE		07	30			4	25				
	GNZ	EP	Z	05	48	04								
	ROX	EP	Z	05	48	08								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 15	08	57	56.5	56.4S	27.2W	33KM	6.1							WEL 81
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	09	10	27								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 15	10	12	05.0	49.0S	164.0W	33KM	5.0							WEL 17
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	EP	Z	10	13	08								
		ES	Z			55								
	ROX	EP	Z	10	13	19								
		ES	Z		14	15								
	GPZ	EP	N	10	13	59								
		ES	N		15	25								
	KAI	EP	X	10	14	06								
		ES	X		15	40								
	COB	EP	E	10	14	31								
		ES	E		16	17								
	TNZ	EP	Z	10	15	01								
	KRP	EP	Z	10	15	28								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 15	12	44	12.2	16.0S	172.9W	33KM	5.3							WEL 27
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	12	49	26								
	WEL	ELR	ZNE	12	57	30								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 15	13	12	53.5	15.8S	173.1W	33KM	4.6							WEL 27
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	13	18	08.5								

	H	M	S	EPICENTRE		DEPTH	MAG							DIST (DEG)
SEP 15	15	29	32.2	8.9N	93.1E	37KM	6.2							WEL 90
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX	EP	Z	15	42	14								
		ES	NE		52	38								
		ESS	NE		58	16						6	25	7 16
		ELQ	N	16	05	12						11	23	
		ELR	ZE		11	00								21 30
	CNZ	IP	Z	15	42	28.0	U							
	WEL	EP	Z	15	42	28	U							
		ESKS	E		52	48								
		ES	ZNE		53	06								
		ESS	ZNE		59	12			7	44				8 40
		ELQ	N	16	07	00						57	45	
		ELR	ZE		11	00								33 25
	KRP	EP	Z	15	42	29			45	26				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 15	18 37 10.1	6.6S 146.8E	59KM	5.1					WEL 43
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	TUA EP	Z 18 45 01							
	GNZ EP	Z 18 45 03							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 16	05 20 46.1	5.9S 152.0E	29KM	6.2					WEL 41
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP E(P)	Z 05 28 22							
	GNZ EP	Z 05 28 23							
	WEL EL	Z 05 40 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 16	20 47 16.0	16.1S 176.5W	352KM	5.1					WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP IP	Z 20 51 50.6							
	GNZ EP	Z 20 51 51							
	MNW EP	Z 20 53 14							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 17	06 59 37.8	26.5S 176.4W	33KM	4.8					WEL 16
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 07 02 51							
	ES	Z 04 52							
	KRP EP	Z 07 02 54							
	WEL EL	Z 07 08 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 17	15 06 13.8	12.8S 168.9E	622KM	4.5					WEL 29
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP IP	Z 15 10 57.7	U						
	GNZ EP	Z 15 11 06.5							
	WEL EP	ZNE 15 11 23							
	ROX EP	Z 15 11 55.5							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 19	05 08 15.1	15.3N 94.0W	42KM	5.3					WEL 101
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ESP	Z 06 35 08							
	ESS	Z 40 12							
	E(L)	Z 54 00				2	28		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 19	21 34 10.2	22.1S 177.6W	251KM	4.4					WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 21 37 54							
	GNZ EP	Z 21 37 56							
	ES	Z 40 52							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 20	04 33 29.4	49.6S 116.2W	33KM	5.2					WEL 49
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL EP	Z 04 42 12		1	26				5.2
	ES	ZNE 49 03		2	22				
	E(L)	ZNE 53 00				3	30		
	ELR	ZNE 55 18		10	28	4	28		6.4
	ROX ES	NE 04 49 30				7	24		
	ELR	ZNE 55 00				4	6		
						3	14	6 20	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 20	14 36 05.3	30.0N 138.1E	454KM	4.9					WEL 79
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP IP	Z 14 47 06.7	D						
	GNZ EP	Z 14 47 14							
	WEL EP	Z 14 47 18.5							
	ROX EP	Z 14 47 28.5							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 21	04 23 19.7	21.8S 179.6W	609KM	5.4					WEL 20
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP IP	Z 04 26 42.7	U						
	E	Z 29 50							
	GNZ EP	Z 04 26 43							
	ES	Z 29 26							
	WEL EP	ZNE 04 27 11							
	ES	ZNE 30 13							
	ROX EP	Z 04 27 59							
	ES	Z 31 52							
	ESCP	Z 33 55							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 21	12 01 46.6	17.8S 167.3E	33KM	5.1					WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 12 06 33							
	GNZ EP	Z 12 06 50							
	WEL EL	Z 12 18 00				3	13		
	ROX EP	Z 12 07 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 21	16 57 36.2	19.9S 178.5W	512KM	4.5					WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 17 01 18							
	GNZ EP	Z 17 01 19.5							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 21	18 10 51.6	30.1S 179.5W	319KM	5.2					WEL 12
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 18 12 55							
	ES	Z 14 32							
	KRP EP	Z 18 12 59							
	WEL EP	ZNE 18 13 35							
	ES	ZNE 15 44							
	ROX ES	Z 18 17 43							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 23	17 35 41.0	49.0S 165.0W	33KM	5.0					WEL 16
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GPZ E(P)	N 17 37 30							
	E?	N 38 47							
	MNW IP	Z 17 36 37.1	D						
	E	Z 37 20							
	KAI E?	X 17 37 45							
	E(S)	X 39 06							
	ROX EP	Z 17 36 48							
	E	Z 37 47							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 25	23 27 49.7	30.7S 179.9W	424KM	5.3					WEL 11
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	ECZ EP	Z 23 29 37							
	ES	Z 30 57							
	GNZ EP	Z 23 29 44							
	I	Z 49.5							
	E?	Z 31 13							
	ES	Z 22							
	KRP EP	Z 23 29 50.5							
	WEL EP	ZNE 23 30 21							
	E(S)	ZNE 32 20							
	ES	ZNE 25							
	ROX ES	Z 23 34 21							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 26	03 38 32.7	17.7S 173.3W	33KM	5.1	WEL 2

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	03 43 21	D							
GNZ	EP	Z	03 43 28								
	ES	Z	47 33								
WEL	EL	Z	03 50 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 26	07 50 18.9	49.0S 164.5E	33KM	5.2	WEL 11

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ROX	IP	Z	07 51 29.7	D							
	ES	Z	52 26								
GPZ	EP	N	07 52 09								
	E	N	53 39								
	E	N	54 06								
KAI	E	X	07 52 18								
	ES	X	53 43.5								
COB	EP	E	07 52 38								
	ES	E	54 25								
WEL	EP	Z	07 52 50								
	ES	NE	54 43								
	EL	Z	55 00		4	18					
TNZ	E(P)	Z	07 53 14								
KRP	EP	Z	07 53 29								
GNZ	EP	Z	07 53 40								
	ES	Z	56 15								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 26	22 55 14.8	4.9S 153.5E	34KM	5.5	WEL 41

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	23 02 35								
GNZ	EP	Z	23 02 50								
WEL	EP	ZNE	23 02 55.5								
	ES	Z	09 06								
	E	Z	12 12		1	28					
	ELR	Z	14 30		3	24					
MNW	EP	Z	23 03 08								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 27	06 36 25.3	16.1S 176.0W	332KM	4.5	WEL 24

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	06 41 03								
GNZ	EP	Z	06 41 04								
MNW	EP	Z	06 42 27								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 27	07 53 53.4	2.2N 126.5E	70KM	5.3	WEL 62

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	08 04 01.5								
GNZ	EP	Z	08 04 09								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 27	09 53 36.6	2.3N 126.7E	100KM	5.1	WEL 62

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	10 03 39.5								
GNZ	EP	Z	10 03 50								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 27	13 24 23.9	28.3S 178.3W	220KM	4.2	WEL 34

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ECZ	E	Z	13 28 13								
	ES	Z	24								
GNZ	EP	Z	13 26 58								
	E	Z	28 38								
WEL	ES	ZNE	13 29 55								

SEP 27	GNZ	EP	Z	13 41 02							
		E	Z	05							
		E	Z	42 34							
		E(S)	Z	37							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 28	12 53 55.1	22.0S 179.4W	548KM	4.1	WEL 20

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	12 57 23								
	E(S)	Z	13 00 11.5								
MNW	EP	Z	12 58 46								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 28	20 06 46.0	5.2S 150.5E	224KM	5.5	WEL 42

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	20 14 14								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 28	22 01 40.2	5.5S 151.6E	50KM	5.4	WEL 41

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	22 09 04								
GNZ	EP	Z	22 09 18								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 29	05 30 59.5	18.1S 175.4W	197KM	4.8	WEL 25

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	05 35 34								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 29	14 00 14.9	20.4S 174.4W	29KM	5.7	WEL 23

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	14 04 41								
GNZ	EP	Z	14 04 42								
	ES	Z	08 10								
WEL	EP	ZNE	14 05 17.5								
	ES	ZNE	09 19								
	E	ZE	10 42								
	ELR	ZN	12 00								
ROX	EP	Z	14 06 09								
	ES	NE	10 56								
	ELQ	NE	12 48								
	ELR	Z	16 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 30	03 47 00.3	22.9S 179.1W	368KM	3.9	WEL 19

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	03 50 29								
GNZ	EP	Z	03 50 29								
	ES	Z	53 17								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 03	16 58 55.4	15.2S 173.5W	33KM	5.1	WEL 28

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	17 04 16								
GNZ	EP	Z	17 04 25								
WEL	ELR	ZNE	17 12 24								
ROX	ELR	NE	17 15 00								
OCT 01	GNZ	EP	Z	20 40 34							
	TUA	P	Z	20 40 40							
		ES	Z	41 56							
	WEL	ES	ZNE	20 43 01							

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 02	04 31 21.0	23.6S 179.6W	503KM							WEL 18
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	P	Z 04 34 34								
	ES	Z 37 10								
KRP	EP	Z 04 34 34								
WEL	EP	Z 04 35 04								
	ES	ZNE 38 04								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 02	13 00 39.7	10.5S 162.4E	68KM	6.0						WEL 33
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z 13 06 41								
GNZ	P	Z 13 06 54								
WEL	P	ZNE 13 07 04		5	8					6.4
	PP	Z 08 13		8	8	8	7			6.4
	ES	ZNE 12 18		5	20	11	28	7	28	5.9
	ELQ	NE 14 40				27	28	46	36	
	LR	Z 15 55		33	32					
ROX	P	Z 13 07 30								
	ES	NE 13 06				8	20	7	22	6.1
	ELQ	E 16 00						24	22	

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 03	01 55 00.2	21.0S 178.5W	547KM	5.0						WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z 01 58 37.8								
GNZ	EP	Z 01 58 38								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 03	16 52 20.7	26.7S 177.7W	134KM	4.5						WEL 16
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 16 55 18								
	ES	Z 57 19								
WEL	ES	ZNE 16 58 35								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 03	17 02 48.0	18.1S 178.8W	673KM	4.4						WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 17 06 43								
	ES	Z 09 56								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 03	22 41 09.0	20.2S 176.3W	219KM	4.4						WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 22 45 17								
KRP	P	Z 22 45 19								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 05	08 30 15.7	16.7S 173.7W	33KM	5.1						WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	P	Z 08 35 20								
KRP	P	Z 08 35 21								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 05	12 24 06.4	16.6S 174.2W	84KM							WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 12 29 06								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 05	13 12 15.5	22.3S 171.6E	145KM	4.9						WEL 19
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	P	Z 13 16 07								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 05	13 58 56.9	22.2S 175.8W	33KM	5.1						WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 14 03 55								
WEL	ES	NE 14 07 06								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 06	07 17 57.1	36.2S 100.9W	33KM	5.5						WEL 63
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EP	Z 07 28 21		1	14					5.8
	ES	ZE 36 58		6	24					
	ESS	Z 40 52		3	32					
	LR	Z 46 40		16	30					
ROX	ES	NE 07 37 29						5	25	6.1
	ELQ	NE 48 00						8	28	

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 06	14 31 19.2	40.3N 28.2E	10KM	6.0						WEL 155
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
MNW	PKP	Z 14 51 09								
	I	Z 18								
WEL	PKP	Z 14 51 12		5	10					
	PKP2	Z 38		5	12					
	EPP	Z 55 08		4	22					6.2
	ELR	ZNE 15 47 00		23	23	20	24	12	23	
GNZ	EPKP	Z 14 51 14								
ROX	EPKP	Z 14 51 18								
	E	Z 31								
KRP	PKP	Z 14 51 20								
	PKP2	Z 36								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 06	19 12 12.0	16.1S 168.6E	21KM	5.4						WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 19 17 22								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 07	01 24 45.2	20.7S 177.8W	328KM	4.4						WEL 21
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	IP	Z 01 28 40.1	D							
GNZ	EP	Z 01 28 49								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 07	03 52 11.3	6.8S 155.2E	70KM	5.5						WEL 39
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
TUA	EP	Z 03 59 22								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 09	21 34 09.2	16.2S 171.9W	33KM	5.8						WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 21 39 25								
	ES	Z 43 45								
KRP	P	Z 21 39 28								
	I	Z 31								
WEL	EP	ZNE 21 39 55								
	ES	ZNE 44 49								
	ELR	ZNE 46 48				3	32			
MNW	EP	Z 21 40 51								
	E	Z 41 04								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 10	07 56 40.5	25.2S 180.0E	432KM	3.8						WEL 17
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z 07 59 38								
	ES	Z 08 08 02								
KRP	P	Z 07 59 39								
WEL	S	ZNE 08 02 57								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 10	08 31 07.7	23.8S 179.7W	441KM		WEL 18

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	08 34 22								
GNZ	EP	Z	08 34 23								
	ES	Z	36 59								
WEL	P	ZNE	08 34 52								
	ES	ZNE	37 50								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 10	17 13 29.8	30.2S 179.3W	294KM		WEL 12

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	17 15 35								
	I	Z	41								
	ES	Z	17 14								
KRP	P	Z	17 15 42								
WEL	EP	ZNE	17 16 14								
	ES	ZNE	18 25								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 11	00 13 13.4	16.2S 168.2E	17KM	5.3	WEL 26

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	00 18 16								
GNZ	EP	Z	00 18 27								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 11	10 06 44.9	19.1N 156.6W	33KM	5.3	WEL 66

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	10 17 05								
GNZ	EP	Z	10 17 06								
WEL	P	Z	10 17 34								
	ELR	Z	37 00				1	32			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 11	10 21 01.1	6.3S 145.7E	138KM	5.0	WEL 43

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	10 29 06								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 11	11 10 33.6	13.6S 166.6E	68KM	5.0	WEL 28

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	11 15 57								
GNZ	EP	Z	11 16 19								
ROX	EP	Z	11 16 51								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 11	21 15 03.9	0.6S 121.7E	33KM	6.3	WEL 63

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
ROX	ES	NE	21 33 06				4	18	4	18	6.0
	LQ	NE	40 20				33	22	16	18	
KRP	IP	Z	21 25 23.0	U							6.7
WEL	IP	ZNE	21 25 26.5	U	4	6					6.4
	S	ZNE	33 55		5	32	8	16			
	MAX	Z	52 00								
GNZ	P	Z	21 25 36								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 12	01 48 30.8	21.6S 177.1W	188KM	4.4	WEL 21

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	P	Z	01 52 23								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 12	15 42 54.7	3.0N 126.7E	59KM	5.9	WEL 62

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	15 53 18								5.8
WEL	EP	Z	15 53 36		1	16					5.7
	ES	ZNE	16 01 26		2	30	4	56	5	32	

	LR	ZE	13 00			13 38			12 48		

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 12	21 55 33.2	31.3S 110.8W	25KM	6.0	WEL 59

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL	EP	Z	22 05 32								
	S	ZNE	13 44		2	28	4	16	4	20	5.9
	ELQ	NE	19 52				21	36	6	30	
	ELR	ZE	21 00		13	24			13	30	
ROX	ES	NE	22 14 23								
	ELR	ZNE	25 00								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 13	10 38 59.3	3.3S 149.9E	59KM	5.1	WEL 44

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	10 46 42								
GNZ	EP	Z	10 46 52								
	E	Z	47 01								
WEL	EP	Z	10 47 04								
	EPP	Z	49 00		1	10					5.8
	ES	ZNE	53 32		2	10			3	8	6.1
	ELR	Z	59 40								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 13	17 20 14.9	32.6S 179.8W	118KM	4.4	WEL 10

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	P	Z	17 21 50								
	I	Z	54								
	ES	Z	22 54								
KRP	EP	Z	17 21 57								
WEL	EP	ZNE	17 22 33								
	ES	ZNE	24 16								
GPZ	ES	N	17 25 26								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 14	03 04 59.6	33.4N 141.8E	33KM	5.6	WEL 80

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	03 16 53								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 14	03 45 58.0	21.4S 178.5W	481KM	4.5	WEL 21

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	03 49 34.0								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 14	12 06 38.1	5.7S 150.5E	89KM	4.0	WEL 42

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	12 14 01.0								
GNZ	EP	Z	12 14 15								
WEL	EP	Z	12 14 18								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 15	02 07 06.4	6.6S 154.8E	62KM	5.1	WEL 39

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP	P	Z	02 14 07								
GNZ	P	Z	02 14 20								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 16	06 15 31.5	23.6S 177.6W	178KM	5.5	WEL 19

			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	06 19 02								
KRP	P	Z	06 19 05.0								
	ES	Z	22 00								
WEL	P	ZNE	06 19 37			1	20				4.9
	S	ZNE	22 51								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	88
OCT 16	06 59 38.6	44.3N 149.5E	33KM	5.5							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 07 12 33									
WEL	P	Z 07 12 33		3	12						
	ESKS	ZNE 22 55		4	14	9	18	6	16		6.4
	EPS	Z 24 12		6	22						
	ELR	Z 42 00		13	26						
ROX	SKS	NE 07 23 32				4	14	3	16		
	S	NE 54									
	ELR	ZNE 47 00		9	22	12	22	11	20		

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	88
OCT 16	08 18 28.3	44.6N 149.4E	33KM	5.2							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	EP	Z 08 31 05									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	88
OCT 16	09 18 16.6	44.5N 149.1E	33KM	5.4							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	EP	Z 09 31 08									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	38
OCT 17	01 38 36.0	7.0S 155.8E	58KM	4.7							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 01 45 30.5									
TUA	EP	Z 01 45 44									
WEL	P	Z 01 45 51									
	ELR	Z 56 40		4	28						
ROX	EP	Z 01 46 09									
	LQ	NE 55 30				5	24	6	30		

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	19
OCT 17	05 55 54.4	22.3S 171.5E	116KM	5.3							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 05 59 30.8									
TUA	EP	Z 05 59 48									
WEL	P	ZNE 06 00 09		4	14	10	4	6	4	6.2	
	S	ZNE 03 51		5	14	6	12	6	7	6.3	
	LR	Z 04 54		7	34						
ROX	EP	Z 06 00 52									
	E*PP	Z 01 20									
	S	NE 05 00				4	16	2	18	5.8	

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	21
OCT 17	10 02 37.3	21.8S 170.2E	33KM								
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
WEL	ES	Z 10 11 02		1	10						
	ELR	Z 13 00		1	20						

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	28
OCT 18	09 26 57.3	14.4S 167.0E	50KM	4.3							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 09 32 18									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	56
OCT 18	12 32 24.1	7.0S 124.0E	574KM	5.8							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
ROX	P	Z 12 41 03									
	PCP	Z 56									
	SCP	Z 45 00									
	S	ZNE 47 58		28	14	26	21	74	24	6.7	
	ISCS	N 49 50				18	12				
	*SS	NE 51 15				30	19	62	19		
KRP	P	Z 12 41 09.0 U									
	PCP	Z 42 02									
	*PP	Z 43 01									

	SCP	Z	45 05										
	ES	Z	48 18										
WEL	P	ZNE	12 41 13			3	16						5.4
	PCP	Z	42 02										
	*PP	ZN	43 03										
	PP	Z	34			10	28						6.2
	SCP	Z	45 03										
	IS	ZNE	48 19										
	SCS	NE	49 58					37	12	22	6		
TUA	EP	Z	12 41 18										
	EPCP	Z	42 06										
	SCP	Z	45 08										
	ES	Z	48 32										
GNZ	EP	Z	12 41 22										
	I	Z	24										
	E*PP	Z	43 12										
	ES	Z	48 33										
	PKPPKP	Z	13 11 06										

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	22
OCT 18	22 31 37.7	19.4S 179.1W	666KM	4.8							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 22 35 22									
GNZ	EP	Z 22 35 23									
	ES	Z 38 34									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	17
OCT 19	08 50 30.4	24.7S 179.6W	475KM	4.3							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
GNZ	EP	Z 08 53 27									
	I	Z 31									
	E	Z 55 45									
	ES	Z 56 04									
KRP	P	Z 08 53 29.5									
WEL	EP	Z 08 54 03									
	S	ZNE 57 01									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	41
OCT 19	13 29 29.4	4.6S 152.9E	70KM	4.9							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 13 36 52									
GNZ	EP	Z 13 37 06									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	26
OCT 19	21 14 52.2	15.7S 177.8W	398KM	4.4							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 21 19 25									
GNZ	P	Z 21 19 26									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	23
OCT 20	00 49 05.7	19.6S 174.8W	29KM								
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 00 53 40									
GNZ	P	Z 00 53 40									
	ES	Z 57 12									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	18
OCT 20	20 04 01.6	23.9S 179.0W	165KM	4.7							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	P	Z 20 07 43									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG) WEL	28
OCT 21	10 08 46.7	14.1S 166.7E	45KM	4.4							
		H M S	DIR	AZ	TZ	AN	TN	AE	TE		MAG
KRP	EP	Z 10 14 14									
GNZ	EP	Z 10 14 33									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 21	20 56 58.7	15.1S 173.0W	33KM	5.0					WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 21 02 17							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 21	23 09 18.8	28.1N 93.8E	37KM	5.9					WEL 102
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ESKS	ZNE 23 33 44		2	18			4 14	
	EPS	Z 36 22		2	18				
	ELR	Z 59 50		6	46				
	EPP	Z 24 27 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 22	12 37 45.8	23.6N 142.7E	86KM	4.5					WEL 71
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 12 48 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 23	01 56 03.2	19.8N 56.0W	31KM	6.4					WEL 132
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EPKP	Z 02 15 15							
	E	Z 29							
	E	Z 41							
	WEL EPP	Z 02 17 34		3	18				6.1
	I	Z 18 38		4	28				
	EPS	Z 28 44		2	14				
	ELR	Z 58 00		10	36				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 23	05 06 43.9	23.6S 180.0W	548KM	4.2					WEL 16
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z 05 09 53							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 23	09 39 06.2	28.2S 177.3W	68KM	4.6					WEL 15
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ ES	Z 09 43 42							
	TUA ES	Z 09 43 51							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 24	22 05 24.1	12.6S 167.5E	162KM						WEL 29
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z 22 11 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 24	22 04 57.5	4.9S 152.9E	49KM	5.8					WEL 42
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z 22 12 21							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 25	12 08 46.9	21.7S 179.2W	534KM	5.5					WEL 20
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP P	Z 12 12 20.0							
	GNZ P	Z 12 12 20							
	S	Z 15 08							
	SCP	Z 19 07							
	WEL P	ZNE 12 12 47							
	ES	ZNE 15 53							
	MNW P	Z 12 13 42							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 26	04 05 37.0	49.1S 163.7E	33KM						WEL 11
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	MNW P	Z 04 06 28.8							
	I	Z 30.5							
	S	Z 07 12							

	ROX EP	Z	04 06 42						
	S	Z	07 34						
	GPZ EP	N	04 07 23						
	E(S)	N	08 41						
	KAI ES	X	04 09 04						
	WEL ELR	Z	04 12 00						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 26	14 22 57.8	2.2N 126.8E	48KM	6.0					WEL 61
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	MNW EP	Z 14 33 00							
	KRP EP	Z 14 33 03							
	WEL P	Z 14 33 09							
	ELR	Z 52 00		3	32				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 27	20 00 34.9	27.6S 176.8W	168KM	4.5					WEL 15
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	CNZ EP	Z 20 03 30							
	KRP EP	Z 20 03 31							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 27	21 24 31.2	45.6S 96.1E	33KM	6.0					WEL 55
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	ROX EP	Z 21 33 19							
	S	NE 40 31				3	11	5 15	6.1
	LQ	NE 46 50				17	30	11 30	
	CNZ EP	Z 21 34 11							
	GNZ EP	Z 21 34 26							
	WEL ES	NE 21 41 46				4	10	5 10	6.2
	LQ	NE 47 42				26	46	24 44	
	LR	Z 50 50		10	34				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 27	22 36 17.9	58.5S 66.2W	33KM	5.4					WEL 68
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 22 47 35							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 28	05 48 45.4	16.6S 177.2W	33KM	4.8					WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	GNZ EP	Z 05 53 40							
	KRP P	Z 05 53 42							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 28	13 10 49.5	6.4S 154.7E	90KM	4.9					WEL 39
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 13 17 50							
	GNZ EP	Z 13 18 03							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 29	06 51 46.0	13.4S 166.6E	43KM	4.9					WEL 29
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 06 57 18							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 29	19 09 59.2	17.8S 168.1E	33KM	4.4					WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	KRP EP	Z 19 14 46							
	CNZ EP	Z 19 15 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 30	02 10 37.6	35.0S 107.3W	33KM	4.8					WEL 60
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
	WEL ES	ZE 02 28 58		2	28			3 30	5.6
	ESS	Z 32 58		2	13				
	ELR	Z 37 30		6	36				

OCT 30	GNZ	P	Z	16	38	11								
	KRP	P	Z	16	38	12								
	CNZ	EP	Z	16	38	24								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 01	02	56	41.4	25.1S	179.7W		459KM	5.0						WEL 17
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ONE	EP	E	02	59	23								
	GNZ	EP	Z	02	59	39								
		ES	Z	03	02	08								
	TNZ	EP	Z	02	59	53.5								
	WEL	E(P)	Z	03	00	12								
		E(S)	N		03	04								
		E	Z			08								
	ROX	E(P)	Z	03	01	03								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 01	12	26	06.2	3.1N	128.1E		63KM	6.3						WEL 41
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	12	36	07								
		E*PP	Z			17								
		E(PCS)	Z		40	48								
	TNZ	E(P)	Z	12	36	10								
	ROX	EP	Z	12	36	12								
		ES	NE		44	20								
		E(L)	NE		51	32								
	GNZ	EP	Z	12	36	22								
	CNZ	E(P)	Z	12	36	15								
	WEL	EP	Z	12	36	17								
		E(S)	Z		45	12								
		EL	ZNE		52	00				4	23			
NOV 01	KRP	EP	Z	12	49	43								
		E	Z		50	13								
	GNZ	EP	Z	12	50	08								
	CNZ	EP	Z	12	50	15.5								
	WEL	EP	Z	12	50	38								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 01	16	43	40.6	27.3S	178.5W		366KM	4.0						WEL 15
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	E(S)	Z	16	48	50								
	WEL	ES	ZNE	16	49	27								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 02	08	10	05.5	16.9S	169.7E		255KM	4.7						WEL 25
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	08	14	47.5	U							
	CNZ	EP	Z	08	14	59								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 02	18	37	30.0	20.9S	178.2W		604KM	4.4						WEL 21
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	18	41	08								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 03	12	43	04.7	0.1N	123.7E		149KM	5.4						WEL 62
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	E(P)	Z	12	53	04								
		E*PP	Z			40								
	GNZ	EP	Z	12	53	16								
	WEL	E(S)	Z	13	01	00								
		MAX	Z		19	00								
	ROX	E	Z	12	53	30								

	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 03	18	28	38.6	1.7S	149.8E		35KM	5.8						WEL 45
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	E(P)	Z	18	32	18								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 04	06	27	53.8	16.3S	172.9W		33KM	4.4						WEL 27
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	06	33	03								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 06	09	53	22.4	44.4N	149.0E		60KM	5.7						WEL 88
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	E(P)	Z	10	05	56								
	WEL	E(SKS)	Z	10	16	40								
		EL	ZN		34	00			5	24		4	24	
	ROX	E(SKS)	NE	10	17	24								
		ELQ	E		32	00								
		EL	NE		37	00								
										2	21		1	22
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 07	07	44	05.7	6.5S	148.2E		48KM	5.3						WEL 42
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	07	51	38								
	WEL	EL	Z	08	04	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 07	14	49	13.4	45.5N	150.3E		33KM	5.6						WEL 89
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EL	Z	15	15	44								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 07	18	37	43.7	0.4S	100.1E		107KM	5.1						WEL 78
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	EP	Z	18	49	38								
	KRP	EP	Z	18	49	39								
		E(*PP)	Z		50	02								
	WEL	ES	N	18	59	26								
		EL	ZN	19	11	00			9	23				
	ROX	ESS	E	19	06	00								
		ESSS	N		09	00								
		EL	E		14	00						2	20	
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 07	23	41	55.1	19.9S	177.4W		281KM	4.5						WEL 22
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	23	45	47								
	GNZ	EP	Z	23	45	58								
		E	Z		49	11								
		E(S)	Z			20								
	CNZ	EP	N	23	50	09								
	WEL	EP	Z	23	46	28								
		E(S)	N		50	13								
		E	Z			17								
	MNW	EP	Z	23	47	26								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 08	01	25	35.7	32.2S	178.8W		33KM	4.4						WEL 10
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP	Z	01	27	17								
		ES	Z		28	40								
	KRP	EP	Z	01	27	25								
	WEL	E(P)	Z	01	28	00								
		E(S)	ZNE		29	54								
		E	ZNE			57								
NOV 08	MNW	EP	Z	05	32	33								

		ES	Z	33 24										
NOV 08	MNW	EP	Z	06 01 05										
		ES	Z	56										
NOV 08	MNW	EP	Z	10 17 40										
		ES	Z	18 30										
NOV 08	MNW	EP	Z	12 34 54										
		ES	Z	35 46										

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 09	18 43 38.6	19.3N 121.0E	33KM	5.0						WEL 76
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 18 55 29								
	TNZ EP	Z 18 55 30								
	CNZ EP	Z 18 55 32								
	MNW P	Z 18 55 33								
	ROX EP	Z 18 55 37								
	GNZ EP	Z 18 55 39								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 10	12 45 16.3	31.6N 132.3E	169KM	4.7						WEL 92
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 12 57 31								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 10	16 34 15.5	3.7S 136.6E	14KM	5.4						WEL 91
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 16 43 11								
	WEL EL	Z 16 58 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 11	14 11 05.0	29.4S 178.2W	89KM	4.1						WEL 13
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 14 13 27								
	GNZ E(S)	Z 14 15 09								
	E	Z 19								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 12	00 55 25.6	33.2S 179.9W	74KM	4.2						WEL 9
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ONE EP	E 00 56 39.5								
	GNZ EP	Z 00 56 43								
	E	Z 57 57								
	KRP EP	Z 00 56 50.0 D								
	E	Z 58								
	TUA E(P)	Z 00 56 50								
	AUC EP	Z 00 56 58								
	CNZ EP?	Z 00 57 04 D								
	E	Z 06 U								
	TON E	Y 00 57 13								
	TNZ EP	Z 00 57 15								
	WEL EL	ZN 01 00 00								
	ROX EL	NE 01 03 00								
NOV 12	ONE E(P)	E 01 09 33								
	GNZ EP	Z 01 09 39								
	KRP P	Z 01 09 44 U								
	E	Z 52								
	TUA E(P)	Z 01 09 46								
	CNZ EP	Z 01 09 58								
	TNZ E?	Z 01 10 16								
	E	Z 22								
	WEL EL	ZN 01 13 00								
	ROX MAX	E 01 18 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 12	01 12 07.7	33.0S 179.7E	8KM	5.2						WEL 9
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ECZ EP	Z 01 13 20								
	E	Z 14 23								
	E	Z 37								
	ET	Z 18 09								
	ONE EP	E 01 13 27.4 W								
	E(S)	E 14 28								
	E	E 15 34								
	E	E 21 50								
	GNZ EP	Z 01 13 33								
	E	Z 40								
	E	Z 46								
	E	Z 51								
	E	Z 14 51								
	KRP P	Z 01 13 38.5								
	E	Z 47								
	TUA EP	Z 01 13 39								
	E	Z 46								
	ES	Z 14 53								
	AUC EP	Z 01 13 42								
	CNZ EP?	Z 01 13 51								
	E	Z 54.6 D								
	E	Z 15 36								
	TON E(S)	Y 01 15 24								
	E	Y 34								
	TNZ EP	Z 01 14 02								
	E	Z 04								
	WEL E	Z 01 14 36								
	E	Z 44								
	ES	ZE 15 59								
	E	ZNE 16 42								
	EL	ZNE 17 00				5	20			
	GPZ ES	N 01 17 05								
	ROX EL	NE 01 20 00								
NOV 12	ECZ EP	Z 01 31 37								
	ET	Z 36 16								
	ONE EP	E 01 31 45								
	GNZ P	Z 01 31 49								
	E	Z 32 07								
	AUC EP	Z 01 31 51								
	KRP EP	Z 01 31 55								
	E	Z 32 03								
	TUA EP	Z 01 31 56								
	ES	Z 33 15								
	CNZ EP?	Z 01 32 08								
	E	Z 11								
	TNZ EP	Z 01 32 20								
	WEL EL	Z 01 35 00								
	ROX MAX	N 01 39 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 12	05 33 28.7	18.2S 176.4W	107KM	5.2						WEL 24
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 05 38 01								
	WEL EP	Z 05 38 33								
	E(S)	Z 42 38								
	EL	ZNE 44 00				35	23			
	ROX EL	NE 05 46 00								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 12	09 25 54.1	16.7S 174.6W	190KM	4.8						WEL 26
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 09 30 44								
	CNZ EP	Z 09 30 52								

	WEL	EP	Z	09	31	14								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 12	13	21	13.1	29.1S	178.3W		136KM	3.7						WEL 13
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	13	23	30								
	CNZ	E	Z	13	24	05								
	WEL	EL	Z	13	28	00								
	ROX	EL	E	13	30	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 12	13	57	38.8	36.7N	139.0E		38KM	4.8						WEL 84
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP?	Z	14	10	14								
NOV 12	KRP	EP	Z	19	12	30								
	CNZ	EP	Z	19	12	48								
	WEL	EL	Z	19	17	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 13	13	28	02.8	7.4S	125.4E		368KM							WEL 55
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	TUA	EP	Z	13	37	05								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 13	21	57	30.0	29.2S	178.1W		77KM	5.4						WEL 13
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ONE	EP	E	21	59	42								
	TUA	EP	Z	21	59	50								
		E	Z	22	00	11								
		ES	Z		01	44								
	KRP	P	Z	21	59	53	U							
	TNZ	EP	Z	22	00	16								
	WEL	EP	Z	22	00	44								
		E	ZE			55								
		E	E		02	50								
		ES	ZN			52								
	ROX	E(P)	Z	22	01	50								
		ES	E		05	36								
		EL	ZNE		06	30		7	20			18	20	
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 14	16	54	50.7	5.3S	146.8E		228KM	4.3						WEL 44
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	17	02	20	D							
	WEL	EP	Z	17	02	32								
	GNZ	P	Z	17	02	34	D							
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 15	16	45	44.8	49.5S	163.6E		33KM							WEL 11
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX	E(S)	ZNE	16	47	58								
		EL	ZNE		48	30								
	GPZ	EP	N	16	47	38								
		E(S)	N		49	03								
		E	N			51								
	WEL	E(L)	Z	16	51	00								
	CNZ	EP	Z	16	48	51								
	KRP	E?	Z	16	48	57								
		E	Z		49	02								
	GNZ	E?	Z	16	49	25								
NOV 16	KRP	EP	Z	13	36	30								
	WEL	EL	Z	13	41	00								
	ROX	EL	E	13	43	00								

	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 16	22	40	44.0	1.0N	118.8E		33KM	6.7						WEL 66
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	EP	Z	22	51	27								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 16	23	05	29.2	15.8S	173.0W		12KM	4.8						WEL 28
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	23	10	52								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 17	00	01	17.1	16.3S	173.7W		33KM	5.4						WEL 27
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP?	Z	00	06	25								
		E	Z			35								
	WEL	EL	Z	00	14	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 17	08	15	39.3	5.7S	150.7E		45KM	6.7						WEL 41
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	08	23	05								
		E(*PP)	Z			14								
		E	Z			18								
		EPCP	Z		25	16								
		E(S)	Z		28	58								
		EL	Z		36	00								
	CNZ	EP	Z	08	23	13								
		E*PP	Z			24								
	WEL	EP	Z	08	23	23	U							
		E*PP	Z			33								
		EPCP	ZNE		25	15								
		E	ZNE		29	16								
		ES	NE			32								
		EL	ZNE		32	00								
	ROX	EP	Z	08	23	37								
		E	Z			49								
		E	Z		29	14								
		ES	NE			52								
		EL	NE		33	00						92	20	95 20
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 17	11	03	06.8	23.4S	179.9W		549KM	5.5						WEL 18
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	11	06	16								
		E(S)	Z		08	57								
	CNZ	EP	Z	11	06	28								
		E(*PP)	Z		08	20								
		ES	Z		09	20								
	WEL	EP	Z	11	06	48								
		E(S)	ZN		09	46								
		E	Z			54								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 17	19	00	10.4	12.7N	144.9E		43KM	5.1						WEL 60
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	E(P)	Z	19	10	17								
	CNZ	EP	Z	19	10	22								
	WEL	EL	Z	19	31	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
NOV 18	14	34	54.5	6.0S	148.2E		49KM	6.1						WEL 42
				H	M	S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	14	42	29								
	CNZ	EP	Z	14	42	37								
	GNZ	EP	Z	14	42	44								
	WEL	EP	Z	14	42	44	U							
		EPP	Z		44	36								

		ES	ZNE	49	02								
		ESS	ZNE	52	20								
		EL	Z	55	00		17	18					
	ROX	EP	Z	14 42	54								
		E	NE	43	13								
		ES	NE	49	18				6	20	6	22	5.1
		ESS	NE	52	41								
		EL	NE	56	00				11	18	10	17	

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 18	22 21 01.9		20.2S 174.1W	33KM	5.8						WEL 23
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP	Z 22 25 22								
		E	Z 30								
		E(S)	Z 28 54								
	KRP	EP	Z 22 25 29								
	WEL	E(P)	Z 22 26 12								
		EL	ZNE 32 00								
	ROX	E	Z 22 27 10								
		E(S)	N 31 52								
		EL	NE 34 00								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 18	23 35 03.9		20.1S 174.3W	33KM	5.1						WEL 23
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	E(P)	Z 23 39 30								
	KRP	E?	Z 23 39 31								
	CNZ	E(P)	Z 23 39 47								
NOV 19	KRP	EP?	Z 11 50 38								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 19	15 45 31.2		3.4N 150.1E	38KM	5.7						WEL 51
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z 15 53 16								
		E(PP)	Z 55 13								
	CNZ	EP	Z 15 53 25								
	GNZ	EP	Z 15 53 31								
	WEL	EL	ZE 16 06 00								
	ROX	EL	NE 16 08 00								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 19	16 15 26.2		10.8S 166.3E	166KM	4.9						WEL 31
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z 16 21 04								
	GNZ	EP	Z 16 21 15								
	CNZ	EP	Z 16 21 15								
	ROX	E(P)	Z 16 21 59								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 19	23 35 06.0		6.0S 150.8E	3KM	6.0						WEL 41
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z 23 42 35.5	D							
	CNZ	P	Z 23 42 44	D							
	GNZ	P	Z 23 42 50	D							
		E	Z 49 12								
	WEL	P	Z 23 42 52.5	D							
		E(PP)	NE 44 38								
		ES	NE 49 00								
		E(L)	NE 52 00								
		EL	ZNE 56 00								
	MNW	EP	Z 23 43 02								
		E(PP)	Z 45 00								
	ROX	EP	Z 23 43 03								
		E(PP)	Z 45 02								
		E	Z 48 48								
		E	NE 49 24								
		EL	ZNE 53 00				79	22	113	22	135 19

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 19	23 55 06.8		6.9S 149.9E	33KM	5.6						WEL 41
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z 00 02 35	U							
	CNZ	EP	Z 00 02 44								
	GNZ	EP	Z 00 02 50								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 20	01 23 40.6		6.2S 150.4E	61KM	5.2						WEL 41
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z 01 31 02								
	CNZ	EP	Z 01 31 11								
	GNZ	E	Z 01 31 40								
NOV 20	KRP	EP	Z 02 39 18								
	CNZ	EP	Z 02 39 26								
	GNZ	EP	Z 02 39 33								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 20	03 01 52.3		6.2S 150.5E	44KM	5.1						WEL 41
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	E(P)	Z 03 09 04								
	CNZ	E(P)	Z 03 09 24								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 20	19 05 09.7		6.9S 129.7E	126KM	4.7						WEL 53
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	CNZ	E(P)	Z 19 14 18								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 20	19 21 10.0		4.9S 145.4E	132KM	5.8						WEL 45
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z 19 28 55	D							
	CNZ	EP	Z 19 29 03								
	GNZ	EP	Z 19 29 09								
	MNW	EP	Z 19 29 13								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 20	23 33 08.9		44.6N 149.7E	33KM	5.6						WEL 88
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	E(P)	Z 23 46 01								
	WEL	ESKS	Z 23 56 24								
		ESS	Z 24 03 00								
		E	Z 11 00								
		EL	Z 15 00				3	22			
	ROX	E(S)	N 23 57 22								
		ESS	E 24 03 36								
		EL	NE 11 00				2	21	2	21	

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 21	02 16 44.5		1.0N 124.0E	248KM	5.8						WEL 62
			H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW	IP	Z 02 26 29.9	D							
		E(*PP)	Z 27 25								
	ROX	E(S)	E 02 35 00								
		E(SSS)	E 42 00								
	KRP	EP	Z 02 26 36.5								
		E	Z 27 17								
	WEL	P	ZNE 02 26 42								
		E(S)	Z 35 00								
		E(SSS)	Z 42 00				1	37			
	TUA	EP	Z 02 26 46								
		E*PP	Z 27 39								
	GNZ	EP	Z 02 26 49								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 24	06 35 14.5	20.2S 179.2W	660KM	4.8						WEL 22
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP P	Z 06 38 52								
	GNZ EP	Z 06 38 54								
	MNW EP	Z 06 40 15								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 24	10 41 33.5	6.8S 107.4E	125KM	6.0						WEL 69
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW P	Z 10 51 59.5	U							
	ROX EP	Z 10 52 06								
	E(*PP)	Z 36								
	TNZ EP	Z 10 52 22								
	WEL E(P)	Z 10 52 23								
	E	Z 53								
	ES	Z 11 01 12			0	30				
	EL	Z 13 00			1	30				
	KRP EP	Z 10 52 26								
	GNZ EP	Z 10 52 38								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 24	12 40 51.4	13.1N 124.7E	5KM	6.1						WEL 71
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 12 52 04								
	E	Z 08								
	MNW EP?	Z 12 52 04								
	E	Z 07								
	TNZ EP	Z 12 52 09								
	ROX EP	ZE 12 52 11						1	16	6.1
	S	NE 13 01 25	S							
	E(SCS)	E 02 18								
	ESS	E 06 00								
	ESSS	NE 09 30								
	EL	NE 12 00								
	WEL IP	Z 12 52 14	U							
	S	ZNE 13 01 26		4	20	16	16	5	16	6.7
	E(SCS)	E 02 16								
	ESS	ZNE 06 00								
	ESSS	E 09 30								
	EL	ZE 14 00		17	24			14	24	
	GNZ EP	Z 12 52 20								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 24	12 50 40.2	13.2N 124.9E	97KM	5.0						WEL 71
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 13 01 43								
	TNZ E(P)	Z 13 01 43								
	MNW EP	Z 13 01 45								
	ROX EP	Z 13 01 49								
NOV 24	KRP EP	Z 13 20 07								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 24	14 48 47.0	24.6S 179.5W	406KM	4.2						WEL 57
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 14 51 55								
	E	Z 59								
	GNZ EP	Z 14 51 59								
	E(S)	Z 54 33								
	TNZ EP	Z 14 52 13								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 24	23 51 20.2	23.2S 176.0W	33KM	4.7						WEL 28
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	WEL EL	Z 00 01 00								
	ROX EL	NE 00 04 00								

	MNW EP?	Z 23 56 31									
	E	Z 40									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 25	08 31 32.9	16.1S 175.1W	302KM	4.7						WEL 27
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ EP	Z 08 36 15								
	KRP EP	Z 08 36 16								
	TNZ EP	Z 08 36 30								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 25	09 24 08.9	4.3S 122.2E	610KM	6.2						WEL 60
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	MNW EP	Z 09 33 00								
	ROX ES	N 09 40 14								
	E(L)	NE 47 36								
	EL	E 56 00								
	E	Z 10 33 49								
	TNZ EP	Z 09 33 12								
	KRP EP	Z 09 33 13								
	E*PP	Z 35 29								
	E	Z 36 55								
	WEL EP	Z 09 33 17								
	ES	ZNE 40 38			1	5	5	4	5	4 6.5
	ESS	Z 44 00			0	22				
	EL	Z 54 00			1	22				
	GNZ EP	Z 09 33 26								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 25	19 35 16.4	5.2S 125.2E	430KM	5.1						WEL 57
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	ROX EL	NE 19 57 00								
	WEL ESS	Z 19 55 24								
	EL	Z 20 00 00								
NOV 26	ECZ EP	Z 02 35 26								
	E	Z 37								
	E	Z 36 28								
	E(S)	Z 35								
	GNZ EP	Z 02 35 38								
	E	Z 56								
	E(S)	Z 36 50								
	KRP EP	Z 02 35 48								
	E	Z 36 10								
	TON E(S)	Y 02 37 28								
	TNZ E	Z 02 36 20								
	WEL ES	NE 02 38 09								
	EL	Z 40 30								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 26	06 55 25.1	28.0S 177.0W	33KM	4.2						WEL 15
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP?	Z 06 58 29								
	GNZ E	Z 07 00 11								
	E	Z 30								
	WEL ES	NE 07 01 28								

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)
NOV 26	10 21 07.2	24.9N 122.0E	33KM	5.4						WEL 82
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
	KRP EP	Z 10 33 17								
	CNZ EP	Z 10 33 21								
	MNW EP	Z 10 33 22								
	ROX EP	Z 10 33 26								
	E(S)	NE 44 00								
	ESS	NE 49 00								
	ESSS	NE 53 00								
	EL	NE 11 00 30						2	20	2 20

	GNZ	E(P)	Z	10	33	27							
	WEL	E(S)	Z	10	44	28			2	40			
		ESS	ZE		50	00							
		EL	Z	11	00	00			4	22			
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 26	14	19	47.6		24.9N	122.0E	33KM	5.2					WEL 82
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	14	31	58							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 27	13	47	42.7		37.9N	138.3E	36KM	5.5					WEL 86
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	14	00	07							
		E	Z		01	04							
	CNZ	EP	Z	14	00	11							
	WEL	EL	Z	14	28	00							
NOV 28	KRP	EP	Z	11	49	36							
	GNZ	EP	Z	11	49	38							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 28	12	51	07.1		35.5N	140.7E	72KM	4.7					WEL 83
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	13	03	10							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 29	06	20	10.0		19.4S	169.2E	324KM	4.9					WEL 22
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP?	Z	06	24	12							
		E	Z			14							
	CNZ	EP	Z	06	24	27							
	WEL	EP	Z	06	24	41							
NOV 29	KRP	EP?	Z	13	34	57							
		E?	Z		35	29							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 29	15	52	18.4		5.5S	146.2E	48KM	5.0					WEL 44
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	Z	16	00	08	U						
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 29	16	54	25.8		55.5S	26.0W	33KM	5.6					WEL 82
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	E?	Z	17	06	45							
		E	Z		07	14							
	WEL	EL	Z	17	38	00							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 30	12	27	38.6		6.8S	94.8E	33KM	5.7					WEL 78
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	MNW	EP	Z	12	40	03							
		E	Z			07							
	KRP	EP	Z	12	40	23							
		E	Z			27							
	WEL	E?	Z	12	40	26							
		E	Z			31							
		EPP	Z		43	53							
		ESS	ZE		57	00							
		EL	ZNE	13	04	00		> 60	21				45 21
	TNZ	EP	Z	12	40	27							
	ROX	E(SKS)	N	12	50	30							
		ESS	E		56	00							
		E(L)	N	13	13	02							
		MAX	E		15	00							24 22
		E	Z		40	25							

NOV 30	WEL	E(S)	ZNE	15	56	54							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 30	16	07	30.1		23.8S	179.3E	481KM	4.8					WEL 18
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	16	10	39							
	GNZ	EP	Z	16	10	40							
		ES	Z		13	19							
	TNZ	EP	Z	16	10	56							
	WEL	EP	Z	16	11	11							
		E	Z			13							
		ES	ZNE		14	08							
	MNW	EP	Z	16	12	06							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
NOV 30	18	53	11.4		24.0S	179.9E	550KM	5.5					WEL 18
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	18	56	15							
	GNZ	EP	Z	18	56	18							
		E	Z		58	50							
		E(S)	Z			53							
	TNZ	EP	Z	18	56	32							
	WEL	E(P)	Z	18	56	47							
		ES	ZNE		59	45							
	MNW	EP	Z	18	57	47							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
DEC 01	04	53	23.9		18.9S	175.8W	232KM	5.5					WEL 24
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	Z	04	57	44.0							
	GNZ	P	Z	04	57	45							
	WEL	P	ZNE	04	58	15							
		S	ZNE	05	02	18							
		EL	ZNE		03	16			2	18			
DEC 01	ECZ	EP	Z	08	11	06							
		ES	Z		12	16							
	GNZ	EP	Z	08	11	17							
		ES	Z		12	38							
	TUA	EP	Z	08	11	24							
		ES	Z		12	48							
	WEL	S	ZNE	08	13	53							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
DEC 01	11	47	02.4		30.9S	177.9W	33KM	4.9					WEL 12
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	ECZ	EP	Z	11	48	54							
		ES	Z		50	19							
	GNZ	EP	Z	11	49	01							
		S	Z		50	34							
	TUA	EP	Z	11	49	08							
		ES	Z		50	46							
	KRP	EP	Z	11	49	15							
	WEL	ES	ZNE	11	51	55							
		ELR	Z		53	40			1	24			
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
DEC 02	10	08	39.6		9.1S	158.0E	42KM	5.6					WEL 35
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	Z	10	15	11							
	H	M	S		EPICENTRE		DEPTH	MAG					DIST (DEG)
DEC 02	15	20	11.4		19.6S	177.8W	396KM	4.3					WEL 23
					H	M	S	DIR	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	Z	15	24	10							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 03	08 16 55.4	6.1S 150.6E	35KM	4.7					WEL 41	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 08 24 22									
GNZ EP	Z 08 24 37									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 04	15 48 43.4	6.4S 150.7E	19KM	5.2					WEL 41	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 15 56 07									
GNZ EP	Z 15 56 23									
WEL EP	Z 15 56 27			4	8					6.2
EPP	ZN 58 03			4	10					6.1
S	ZNE 16 02 35					3	8	3	10	6.2
LQ	ZNE 05 44			4	14			3	16	
LR	ZNE 07 56			13	20	12	20	9	20	
ROX ES	NE 16 02 57					3	8	3	8	6.1
ELQ	E 09 00							3	24	
MAX	NE 12 00					4	14	6	16	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 05	05 14 39.6	20.9S 178.5W	529KM	5.2					WEL 21	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 05 18 17.8									
GNZ EP	Z 05 18 20									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 06	04 27 15.5	2.3S 138.3E	33KM	5.0					WEL 51	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 04 36 04									
GNZ EP	Z 04 36 20									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 06	05 41 06.9	18.0S 178.5W	551KM	5.6					WEL 24	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 05 45 11									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 07	08 58 43.8	35.4S 151.3E	54KM	5.8					WEL 19	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 09 06 08.0									
PCP	Z 08 16									
GNZ P	Z 09 06 23.0									
*PP	Z 37									
I	Z 45									
WEL EP	Z 09 06 27			3	26					5.1
PP	Z 08 14			3	14					
S	Z 12 24			9	50					
SS	Z 15 50			17	48					
ELR	Z 18 30			22	22					

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 07	15 43 29.7	5.1S 145.9E	219KM						WEL 44	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 15 51 06									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 08	17 49 46.3	34.7N 139.2E	31KM	5.2					WEL 82	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 18 01 52									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 09	06 19 33.3	19.5S 176.9W	290KM	3.8					WEL 33	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 06 23 41.0									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 09	11 22 22.1	35.1S 109.7W	33KM	4.7					WEL 58	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL ES	Z 11 40 00			1	12					
ELR	Z 48 15			3	22					
DEC 09 ECZ EP	Z 13 40 26									
KRP EP	Z 13 40 38									
I	Z 43									
CNZ EP	Z 13 40 54									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 09	13 35 42.4	27.5S 63.2W	586KM	5.9					WEL 93	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL EP	Z 13 47 55									
*PP	Z 50 02			1	16					
SKS	ZNE 57 33					3	6	4	6	
SP	Z 59 30			2	20					
CNZ P	Z 13 47 59									
*PP	Z 50 05									
EPKKP	Z 14 05 27									
MNW EP	Z 13 47 59									
*PP	Z 50 05									
KRP P	Z 13 48 03.2									
*PP	Z 50 09.0									
I	Z 27.8									
PKKP	Z 14 05 10									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 10	15 10 25.6	36.5S 110.5W	33KM	5.3					WEL 57	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
WEL P	Z 15 20 08									
S	ZE 28 12			4	20			6	20	6.0
LQ	N 34 04					5	26			
LR	ZE 36 08			14	22			11	26	
KRP P	Z 15 20 12									
ROX ES	E 15 28 40							5	18	6.0

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 10	15 11 05.5	40.4N 138.9E	33KM	6.0					WEL 88	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 15 23 39.8									
E	Z 49.5									
GNZ EP	Z 15 23 46									
WEL P	Z 15 23 51			3	10					6.5
MNW P	Z 15 24 01									
ROX EP	Z 15 24 04									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 11	16 04 58.2	38.9N 130.0E	550KM	5.6					WEL 90	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP P	Z 16 16 47.9	U								
GNZ P	Z 16 16 54									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 12	02 19 52.2	15.0S 173.8W	33KM	5.0					WEL 28	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
GNZ EP	Z 02 26 13.2									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
DEC 12	07 20 00.0	6.9S 150.6E	33KM	5.9					WEL 40	
		H M S	DIR	AZ	TZ	AN	TN	AE	TE	MAG
KRP EP	Z 07 27 16									
GNZ EP	Z 07 27 33									
WEL EP	Z 07 27 38									
PP	Z 29 10			2	12					5.7
ES	NE 33 34					2	28	2	24	5.5

			LR	Z	39 00		7 34						
		MNW	EP	Z	07 27 44								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 12	19 44 55.7		26.1S 175.9W		85KM	4.9							WEL 17
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		GNZ	EP	Z	19 48 00								
		WEL	EP	Z	19 48 46								
			ES	ZNE	51 43								
			ELR	Z	53 40		1 22						
		MNW	EP	Z	19 50 00								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 12	23 07 46.1		5.8S 147.1E		68KM	5.0							WEL 43
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		MNW	EP	Z	23 15 47								
		WEL	EP	Z	23 15 51								
			EL	Z	18 18		2 32						
		GNZ	EP	Z	23 15 55								
DEC 13		GNZ	EP	Z	03 30 07								
		KRP	EP	Z	03 30 18								
		WEL	S	ZNE	03 32 30								
			EL	Z	34 00		1 23						
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 13	19 12 57.1		10.7S 165.0E		33KM	5.3							WEL 32
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		GNZ	P	Z	19 19 06								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 14	01 59 05.6		54.3S 2.4W		33KM								WEL 85
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	EP	Z	02 11 53								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 15	01 16 41.7		15.5S 173.3W		14KM	4.6							WEL 28
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	P	Z	01 22 05.0								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 16	03 55 17.4		6.0N 125.3E		121KM	5.6							WEL 65
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		MNW	P	Z	04 05 39								
		KRP	P	Z	04 05 40								
		CNZ	P	ZNE	04 05 47.2								
			ELR	Z	26 00								
		GNZ	P	Z	04 05 54								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 16	19 20 26.3		21.8S 175.3W		33KM	5.4							WEL 21
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	EP	Z	19 24 34								
		MNW	EP	Z	19 25 13								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 17	05 18 34.8		45.4N 150.1E		17KM	5.3							WEL 69
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	EP	Z	05 31 24								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 17	23 44 46.2		51.4N 177.9W		57KM	5.5							WEL 93
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	EP	Z	23 57 36								

	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 18	00 10 59.6		18.8S 168.9E		69KM								WEL 23
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	P	Z	00 15 29.2								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 20	11 26 32.6		20.1S 177.7W		463KM	4.8							WEL 22
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		GNZ	EP	Z	11 30 22.5								
			ES	Z	33 51								
		KRP	P	Z	11 30 23								
		CNZ	EP	Z	11 30 33								
		MNW	EP	Z	11 31 49								
		WEL	EP	Z	11 30 50								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 21	07 28 48.1		5.9S 154.3E		40KM	4.8							WEL 40
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		GNZ	EP	Z	07 36 11								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 22	00 46 32.9		21.3S 179.3W		663KM	4.6							WEL 21
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		WEL	EP	ZNE	00 50 27								
		KRP	IP	Z	00 50 00	U							
		CNZ	P	Z	00 50 08.0								
		MNW	IP	Z	00 51 23.8	D							
		GNZ	EP	Z	00 51 00								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 22	02 30 08.7		20.7S 178.2W		85KM	4.7							WEL 21
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	P	Z	02 34 29.5								
		GNZ	EP	Z	02 34 30								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 22	11 58 10.1		22.2S 179.7W		600KM	5.0							WEL 20
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	P	Z	12 01 31.0								
		CNZ	EP	Z	12 01 43								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 24	23 48 37.2		23.9S 179.9W		473KM	4.6							WEL 18
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		GNZ	EP	Z	23 51 44								
		KRP	P	Z	23 51 56.0								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 25	03 16 47.1		15.2S 173.2W		11KM	4.5							WEL 28
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	P	Z	03 22 11.0								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 26	04 57 14.3		19.7S 178.3W		510KM								WEL 22
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	EP	Z	05 00 58								
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
DEC 26	14 30 29.1		51.8N 156.8E		136KM	5.7							WEL 94
			H M S		DIR	AZ	TZ		AN	TN		AE TE	MAG
		KRP	P	Z	14 43 18.8								
			E*PP	Z	52.0								
		WEL	EP	Z	14 43 36								
			SKS	NE	54 33		1 6						6.6
			EPS	Z	56 36				1 22			1 31	
			ELR	Z	15 14 18		1 25						
		ROX	SKS	E	14 55 06		4 36						
												2 12	

		E	E	56 10								2	14	
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 23	05 46 44.8		59.4S 26.9W	33KM	6.0							WEL	78	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	KRP	EP	Z 05 58 57											
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 23	10 16 21.5		23.6S 179.0W	33KM	4.9							WEL	18	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	KRP	P	Z 10 20 22											
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 24	18 45 45.5		4.4S 153.1E	93KM	6.1							WEL	43	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	KRP	P	Z 18 53 06.8	D										
		E*PP	Z 28.2	U										
		EPCP	Z 55 15.0											
		ESCP	Z 58 59.5											
	CNZ	P	Z 18 53 20.0											
		E*PP	Z 41.3											
	WEL	P	ZNE 18 53 24											
		ES	ZN 59 36				2	36						
		ESS	ZNE 19 02 36				3	32						
		ELR	Z 05 28				5	25						
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 24	19 25 52.5		3.9N 96.9E	141KM	5.4							WEL	83	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	KRP	EP	Z 19 38 09											
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 27	17 43 21.4		12.9N 125.4E	33KM								WEL	71	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	KRP	P	Z 17 54 27.5											
		E	Z 51											
	MNW	EP	Z 17 54 31											
	CNZ	P	Z 17 54 32.0											
		E	Z 53.0											
	WEL	EP	Z 17 54 35				2	7						6.2
		ES	ZNE 18 03 42							4	8	2	8	6.4
		EPS	E 04 44									3	8	
		ELR	Z 16 30				2	30						
	ROX	ES	N 18 03 48							2	10			6.1
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 28	11 22 58		31.0S 177.0W	33KM								WEL	12	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	GNZ	EP	Z 11 25 05											
		ES	Z 26 51											
	KRP	EP	Z 11 25 12											
	ONE	EP	E 11 25 03											
	WEL	EP	ZNE 11 25 49											
		ES	ZNE 28 02											
	COB	ES	E 11 28 18											
	KAI	ES	X 11 28 56											
	GPZ	ES	N 11 29 05											
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 28	16 16 11.0		22.1S 179.6W	611KM								WEL	28	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	ONE	P	E 16 19 17.4											
		E	E 21 51											
		IS	E 55											
	KRP	IP	Z 16 19 30.3	D										
		S	Z 22 19											
		EPCP	Z 23 41											
		ESCP	Z 26 24.0											

	GNZ	P	Z	16 19 31.8										
		ES	Z	22 17										
		ESCP	Z	26 27.0										
		ESCS	Z	30 04										
	TNZ	EP	Z	16 19 44.8										
		I	Z	47.4										
		ES	Z	22 46										
		ESCP	Z	26 27										
	WEL	IP	ZNE	16 19 59.2	U									
		*SP	ZN	22 36				4	11					
		S	ZNE	23 04								33	38	5.8
		SCP	ZNE	26 33										
		ISCS	ZNE	30 14	S					28	14	20	14	
		I*SSCS	NE	34 28	NW					23	14	18	16	
	COB	EP	E	16 20 03										
		E	E	06										
		ES	E	23 10										
		ESCS	E	30 09										
	KAI	P	X	16 20 19.8										
		I	X	27.0										
		ES	X	23 38										
		ESCS	X	30 18										
	GPZ	P	N	16 20 25.8										
		ES	N	23 27										
		I	N	24 08.5										
		ESCP	N	26 44										
	CNZ	EP	Z	16 20 38.8										
		I	Z	42.0	U									
		ES	Z	22 38										
		SCP	Z	26 27										
		ESCS	Z	30 09										
	ROX	P	ZN	16 20 48.0				4	12	4	15			6.0
		E*SP	ZNE	23 32				10	18	6	14	3	14	
		SCP	Z	26 46										
		*SSCS	NE	34 56						9	17	9	15	
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 29	22 59 22.0		17.2S 178.7W	493KM	4.9							WEL	25	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	KRP	EP	Z 23 03 33.2											
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 29	23 22 42.1		6.2S 155.5E	50KM	5.2							WEL	39	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	KRP	EP	Z 23 29 49											
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 30	13 15 55.3		16.7S 175.0W	33KM	4.8							WEL	26	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	KRP	P	Z 13 20 44											
	CNZ	EP	Z 13 20 59											
	H M S		EPICENTRE	DEPTH	MAG							DIST (DEG)		
DEC 30	13 19 47.4		62.6S 165.8E	33KM	5.2							WEL	22	
			H M S	DIR	AZ	TZ		AN	TN			AE	TE	MAG
	MNW	EP	Z 13 23 45											
	ROX	EP	Z 13 23 47											
		ELR	ZN 28 00				9	16						5.8
	WEL	P	Z 13 24 41				49	21		4	22			
		S	ZE 28 54											
		LR	ZNE 30 00				2	22				8	15	5.8
	CNZ	P	Z 13 25 02				20	30				9	20	
		E	Z 23											
	KRP	P	Z 13 25 13.5											

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
DEC 30	15 27 25.8	31.3N 138.8E	261KM	5.4					
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	IP	Z 15 38 51.8	D						
CNZ	P	Z 15 38 57.0							
GNZ	P	Z 15 38 58.5							
MNW	EP	Z 15 39 12							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
DEC 30	21 30 58.8	23.3S 179.9W	547KM	5.2					
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	P	Z 21 34 08.6							
	ES	Z 36 50							
	SCP	Z 41 20							
GNZ	P	Z 21 34 10.4							
	ES	Z 36 47							
	SCP	Z 41 23.0							
CNZ	P	Z 21 34 19							
	ES	Z 37 03							
	SCP	Z 41 22							
WEL	EP	NE 21 34 40							
	ES	NE 37 40							
ROX	EP	Z 21 35 29.0							
DEC 31 ONE	EP	E 17 45 04							
KRP	P	Z 17 45 20							
GNZ	EP	Z 17 45 22.6							
	ES	Z 47 48							
CNZ	EP	Z 17 45 29							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG) WEL
DEC 31	23 13 30.9	4.6S 153.0E	77KM	5.1					
		H M S	DIR	AZ	TZ	AN	TN	AE TE	MAG
KRP	P	Z 23 20 52.5							
	EPCP	Z 23 02.5							
GNZ	EP	Z 23 21 01							

AFIAMALU

Trace amplitudes are in millimeters, read directly from the photographic paper records.

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JAN 1	eS	ZN	17 46 34						
	eSSS	Z	54.4						
	eL	ZN	56.0						
2	eS	Z	19 27.0						
	eL	ZN	30.0						
2	eP	Z	23 44 03						
	iS	NE	58						
3	eP	Z	00 47 03						
	iS	NE	58						
4	eS	NE	03 58 08						
5	eP	ZNE	10 14 53	1.5	1.5	1.4	1.5	1.9	1.9
	eS	NE	17 05						
	eT	ZNE	26 05						
5	iP	Z	12 39 39.6						
	iS	NE	40 14						
5	eS	ZNE	16 42 50						
	eL	NE	47.7						
	eL	Z	48.6						
6	eS	ZNE	00 14 50						
	eSS	ZNE	21 24						
	e	Z	25 10						
	eL	Z	37.4						
6	iP	Z	00 46 36						
	iS	NE	57						
6	iP	Z	06 05 55	1.9	2.9				
6	eiP	Z	06 24 41						
	eS	NE	26 16						
6	e(P)	Z	11 24 52						
	eS	NE	26 01						
7	eS	Z	05 35 22						
	eL	ZE	40.7						
7	e	ZN	13 27.0						
7	eP	Z	22 01 42						
	iS	NE	02 01						
7	eP	ZE	23 13 40						
	iS	E	14 32						
	eT	ZE	18 31						
8	eP	Z	08 33 08						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JAN	eS	E			53						
	eT	ZE		36	20						
8	iP	ZE	11	52	09						
	iS	E			24.5						
8	eP	Z	11	59	58						
	iS	E	12	01	00.1						
	eT	ZE		04	49						
8	eL	N	23	00	00						
	eL	Z			04.2						
9	eS	ZN	18	51	50						
	eSS	ZN		55	46						
	eSSS	ZN		59	36						
	eL	ZN	19	02.5							
10	iP	Z	02	49	56						
	eS	ZNE		50	23						
10	eP	Z	05	02	12						
	eS	ZNE		11	08						
	eSS	Z		14	48						
	eSSS	ZN		19	00						
	eL	ZNE		22.3							
10	iP	Z	07	26	00	1.2	0.8				
	eS	ZNE			47						
10	iP	ZE	16	53	25.5	8.2	2.0			3.9	2.0
	iS	NE		54	06						
10	eL	ZNE	17	28.2							
10	eP	Z	22	02	32						
10	iP	Z	22	18	32						
	eS	NE			53						
11	iP	ZNE	06	40	18.7	7.8	1.9	6.3	1.9	2.6	1.8
	iS	NE			35						
11	e(L)	E	07	30.8							
11	eS	N	09	31	50						
11	eP	Z	17	53	13						
	eS	NE		54	43						
12	eP	Z	00	02	24						
	eS	NE		04	44						
	eT	ZNE		16	20						
12	iP	Z	06	11	03.3						
	eS	ZE		20	04						
	eL	ZE		27	50						
	eL	ZNE		30.2							
12	iP	Z	11	20	47.3						
	epP	Z		21	33						
13	iP	Z	13	34	39						
	eS	NE		35	47						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JAN 13	eL	ZE	17	55.5							
13	iP	Z	18	53	59.9	1.3	2.0				
	eS	ZN		58	00						
14	eP	Z	04	21	08						
	eS	ZNE		23	36						
	eL	E		23.8							
	eT	ZNE		34	17						
14	iP	Z	10	11	19						
	iS	NE			45						
14	eP	Z	10	23	35						
	eS	ZNE		26	12						
	eT	ZNE		37	07						
14	eP	Z	15	45	17						
	e	Z			50						
	epP	Z		46	04						
	eS	NE		51	00						
	ePcS	Z			05						
	eSS	NE		54	00						
14	eP	Z	19	07	10						
	eS	NE			36						
	eT	ZNE		10	00						
14	eP	Z	20	23	31						
	iS	NE			51						
14	eP	Z	22	22	02						
	eS	NE			26						
15	eL	Z	02	54.7							
	eL	N		56.0							
15	eP	ZN	18	50	01	3.6	2.0	1.4	2.0		
	eS	ZNE		52	43						
	eT	ZNE	19	03	30						
15	eP	Z	19	15	56						
	eS	ZNE		16	49						
15	iP	Z	21	46	25						
	iPcP	Z			42						
	eS	ZN		54	48						
	eSS	ZN		58	39						
	eSSS	ZNE	22	01	24						
	eLq	ZNE		04.0							
	eLr	ZN		07.2							
15	eP	Z	23	07	14						
	eS	Z		08	56						
16	iP	Z	08	45	40.7						
	iS	NE		46	15						
16	eP	Z	11	47	04						
	eS	NE		48	56						
17	eP	Z	02	58	48						
	eS	E	03	01	44						
	eL	ZN		02.3							
	eL	ZE		03	50						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JAN 17	eP	Z	03	18	20						
17	eP	ZE	09	38	18	0.6	2.1				
17	eP	Z	12	17	00	1.5	1.0				
18	iP	ZE	11	39	37						
	iS	NE			57						
18	eP	Z	12	16	24	1.0	2.0				
	iPcP	Z			29	4.1	2.0				
	ePP	Z		19	26						
	eS	ZNE		26	04						
	eSS	ZNE		31	00						
	eSSS	ZE		34	14						
	eLq	NE		36	06						
	eLr	ZNE		38.7							
18	iP	Z	12	45	17.4						
	eS	ZNE			32						
18	eP	Z	18	46	55						
	eS	NE		49	00						
	eT	ZNE		58	37						
19	eL	ZE	07	14.4							
19	eP	Z	11	56	21						
	eS	NE			53						
	eT	ZNE		59	22						
19	eP	Z	23	23	56						
	eS	NE		24	42						
19	iP	ZNE	23	25	01	5.3	1.3	6.2	1.5	4.5	1.3
	iS	NE		26	29						
20	iP	Z	17	12	43.2	13.0	2.1				
	i	Z			57						
	ipP	ZNE		13	26						
	iS	ZNE		16	08						
	iPcS	Z		20	28	1.5	2.2				
20	eP	Z	23	10	19						
	eS	NE		13	11						
	eT	ZNE		25	05						
21	eP	Z	07	25	51						
21	iP	Z	08	40	32						
	eS	NE		43	05						
21	iP	Z	09	39	58						
	eS	NE		41	57						
22	iP	Z	20	42	27.4	2.5	1.5				
	iS	NE			57						
22	iP	Z	22	20	48						
	iS	NE		21	36						
23	iP	ZE	00	04	32	1.8	2.4				
	iS	ZE		08	28						
	iL	ZE		09	18						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JAN 23	iP	Z	02	51	20.6	0.7	2.0				
23	iP	Z	14	48	10.7						
	iS	NE			40						
24	iP	Z	00	07	57						
	iS	NE		08	28						
24	iP	Z	15	17	28.5						
	eS	NE			50						
24	iP	Z	17	28	37	1.0	1.9				
24	iP	Z	19	55	21	3.5	1.8				
24	eP	Z	21	14	31						
	eS	Z		16	03						
24	eP	Z	21	47	32						
25	iP	Z	01	28	48.3	0.5	1.9				
	iS	NE		30	21.8						
25	iP	Z	03	41	15.2						
	iS	NE			42						
25	eP	Z	07	07	06						
	iS	NE		08	59						
25	iP	Z	23	09	44						
	iS	NE		11	30						
26	eP	Z	09	22	50						
	ePP	Z		26	46						
	eSKS	E		33	20						
	eS	N		34	04						
	e	ZE		35	30						
	eL	Z		48.4							
	eL	ZE		54.2							
27	e(P)	Z	02	16	06						
	eS	NE			58						
27	eL	ZN	03	13.1							
27	eP	Z	20	22	14	0.7	1.9				
28	iP	Z	05	50	51	1.4	2.0				
	eSS	ZNE		59	52						
	eL	ZE	06	02.0							
28	iP	Z	06	19	14	1.2	1.5				
	eS	NE		20	50						
28	iP	Z	07	31	02.5	0.7	0.9				
	eS	NE		32	31						
28	eP	Z	10	45	50						
	eS	NE		47	31						
28	iPKP	Z	14	27	45.1	3.0	2.0				
	ipPKP	Z		28	36	1.0	2.2				
	iPP	Z		29	03.2						
	esPP	Z		31	00						
	eS	NE		36.3							

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JAN		ePPS	Z		38	34						
		ePSKS	E		39	40						
		eSS	ZNE		45	14						
	30	eP	Z	07	39	48						
		eS	NE		41	47						
FEB	1	iP	Z	18	04	42	1.3	1.0				
		iS	NE		05	03						
	2	iP	Z	01	56	36						
		eS	NE		57	09						
	2	eP	Z	02	50	12						
		eS	NE		51	37						
	2	iP	Z	07	19	35.4						
		iS	NE			54.3						
	2	eS	NE	09	16	.0						
		eL	ZNE		28	.8						
	2	eP	ZNE	11	27	13	1.2	1.9	1.6	1.8	1.5	1.8
		e	NE			50						
		e(S)	NE		30	39						
	2	iP	Z	17	47	58						
	2	iP	Z	23	45	24.2						
		iS	ZNE			40						
	3	iP	Z	14	47	14						
		iS	NE			33.4						
	3	iP	Z	20	08	26.6	7.4	1.6				
		eS	NE		10	34						
	4	iP	Z	05	22	50.3						
		iS	NE		23	27						
	5	iP	Z	09	52	23.2	2.0	1.3				
		iS	NE			58						
	5	iP	Z	11	37	32.8						
		iS	NE		39	14						
	5	eS	ZNE	11	50	06						
		eSSS	ZNE		57	34						
		eL	ZNE	12	00	.5						
	5	iP	Z	12	36	20						
		iS	NE			52						
	5	eP	Z	12	50	39						
	6	eP	Z	12	08	20						
		eS	NE		09	49						
	6	eP	Z	13	18	40						
		ePP	Z		20	20						
		ePPP	Z		22	50						
		iS	NE		27	55						
		eSS	ZNE		32	10						
		eSSS	E		35	40						
		eL	ZN		36	44						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
FEB		eL	ZN		39	24						
	6	eP	Z	13	25	33						
	6	eP	Z	20	37	24						
	7	eP	Z	00	45	44						
		eS	NE		46	13						
	7	eL	ZNE	13	29	.6						
	7	eP	Z	20	42	14	0.5	0.9				
	8	eP	Z	00	31	49	0.5	2.0				
	8	eS	NE	10	14	.6						
		eL	ZNE		26	.4						
	8	eP	Z	11	28	32	0.5	1.9				
		ePcP	Z		29	18						
		eL	ZN		47	.7						
	8	iP	Z	16	43	10	1.5	1.0				
		eS	NE			50						
	9	iP	Z	02	02	00.6	4.2	1.9				
		eS	NE		03	26						
	9	e(P)	Z	06	27	20	0.5	1.7				
	9	eP	Z	17	47	40						
		eS	NE		48	30						
	10	eiP	ZNE	09	58	59	3.0	1.9	2.5	1.9	2.9	2.0
		iS	NE	10	00	43.3						
	10	iP	Z	11	10	51						
		eS	NE		11	56						
		eT	ZNE		17	04						
	10	eP	Z	13	32	54						
		eS	NE		35	02						
	10	ipPcP	Z	17	40	23.5	0.6	2.1				
	11	iP	Z	02	35	54	1.4	1.0				
		eS	NE		37	05						
		eT	ZNE		42	07						
	11	iP	Z	13	44	46.2	0.5	1.2				
	11	iP	Z	18	21	41.5	3.5	1.8				
		iS	NE		22	10						
	11	eP	Z	20	43	42						
		eS	NE		45	24						
	11	iP	Z	20	52	16.7	0.5	0.8				
		eS	NE			45						
		eT	ZNE		54	50						
	12	eP	ZNE	01	36	55						
		iS	ZNE		37	22						
	12	eP	Z	20	39	47						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
FEB	eS	ZN	46 10						
	eSS	Z	47 42						
	eSSS	ZN	49 32						
	eL	Z	51 48						
12	iP	ZE	22 34 39.1	7.4	2.0				
	iS	NE	35 10					11.2	2.0
12	eP	Z	23 28 19						
	iS	NE	41						
13	eS	ZE	03 40 06						
	eL	Z	43.7						
	eL	NE	45.5						
13	iP	Z	03 56 02.2						
13	iP	Z	04 07 11						
13	iP	Z	04 25 17						
	e	NE	28 00						
13	iP	Z	08 18 29	1.1	1.4				
	eS	NE	58						
	eT	ZNE	21 09						
13	e(S)	NE	10 45.4						
	e	N	47.5						
13	eP	Z	11 12 34						
	e	NE	15 25						
13	eP	Z	11 43 26						
	eS	NE	44 18						
	eT	ZNE	48 10						
14	e(P)	ZE	04 22 11						
14	iP	Z	06 30 02						
	i	E	23						
14	eP	Z	16 36 51						
	iS	ZNE	42 30						
	iSSS	ZNE	45 18						
	iL	ZE	47 00						
15	iP	Z	14 02 03.3	2.5	1.3				
	eS	NE	03 30						
15	eL	ZNE	22 16.7						
16	iP	Z	21 41 35.2	1.0	2.0				
	e	Z	47.3						
	e	N	50.0						
	eL	Z	51.5						
17	e(P)	Z	06 02 28						
17	eP	Z	16 45 47						
	eS	NE	47 51						
17	iP	Z	22 45 19.5						
	iS	NE	38						
18	iP	ZE	04 43 48.7	13.8	2.0			9.5	2.0

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
FEB	iS	NE	44 35						
18	e(P)	Z	06 02 04						
18	iP	Z	09 12 52.8						
	eS	NE	13 38						
18	eP	Z	10 40 54	0.5	2.0				
	eS	NE	46 34						
	eL	Z	48.0						
18	eP	Z	19 12 16						
	eS	NE	14 19						
18	iP	ZNE	22 46 22	14.7	1.2				
	iS	NE	54						
19	eP	Z	11 17 40						
	eS	NE	18 31						
	eT	ZNE	22 30						
20	eL	ZN	10 25.2						
21	iP	Z	14 53 05.7						
	iS	NE	28						
21	eP	Z	15 07 54						
	i	NE	08 15						
	i	NE	09 00						
22	eP	Z	01 52 39						
	i	NE	48						
22	eP	Z	08 54 24						
	eS	NE	57 12						
	eT	ZNE	09 09 14						
22	iP	ZNE	12 27 20.3	36.0	1.6	13.2	2.0	10.2	2.0
	iS	NE	46						
23	iP	Z	22 45 52.5						
	eS	NE	46 10						
24	iP	Z	14 52 28.5						
	iS	ZN	55						
25	i(P)	Z	13 25 07	1.0	1.2				
25	eP	Z	23 27 25						
	eS	NE	30 24						
	eL	ZN	31.3						
25	eP	Z	23 34 30						
	eS	NE	36 50						
26	iP	Z	21 18 49.2						
	eS	NE	20 05						
26	eP	Z	23 15 50	0.5	1.9				
27	eS	ZE	15 36 54						
	eSS	N	42 30						
	eLq	N	52.0						
	eLr	ZE	56.3						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
FEB 28	i(P)	Z	09 03 51.7						
28	eP	Z	15 13 40						
29	iP	Z	09 14 18.6						
	eS	NE	36						
29	iP	ZNE	07 29 15	7.4	1.9	7.8	2.0	3.5	1.5
29	eS	NE	15 39.5						
	eSSS	E	47.3						
	eL	ZNE	49.7						
29	iP	Z	20 14 46						
	iS	NE	15 34						
	eT	ZNE	19 50						
MAR 1	iP	Z	00 01 12	3.5	2.2				
2	eL	ZNE	12 21.4						
2	eiP	ZN	19 34 04						
	eS	ZNE	35 03						
3	iP	Z	01 26 10.3						
	eS	NE	27 38						
3	eP	Z	15 16 10						
	eS	NE	19 09						
3	e	Z	16 02 30						
	eL	ZNE	06.0						
3	e	ZNE	17 22.3						
3	iP	Z	17 49 57.7	2.5	2.0				
	i	Z	50 19						
3	iP	Z	23 13 04.6						
	iS	NE	37						
4	iP	Z	20 11 23.8						
	eS	NE	52						
4	iP	Z	21 48 08.9	0.5	0.9				
	iS	NE	56						
4	iP	Z	23 35 56.3	2.5	1.0				
	iS	NE	37 04						
5	iP	Z	02 14 55						
5	eL	E	06 37.2						
	eL	ZNE	39.2						
5	iP	Z	10 11 05	1.1	2.2				
	eS	N	15 36						
	e	ZNE	16 32						
5	iP	Z	15 16 55	2.7	0.8				
	iS	NE	17 14						
5	iP	Z	20 32 37						
	iS	NE	33 08						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
MAR 5	e(P)	Z	20 48 39						
	eS	NE	50 03						
6	e(P)	Z	17 18 18						
6	iP	Z	18 52 34						
	eS	NE	53 17						
6	eP	Z	19 03 56	0.5	1.9				
	eS	ZN	09.2						
	eSS	N	11 41						
	e	Z	12.0						
	eL	ZN	13.1						
6	eP	Z	19 30 09						
6	iP	Z	20 46 17						
7	iP	Z	01 48 43.5	1.0	1.3				
	eS	NE	50 34						
7	eP	Z	03 36 28						
	iS	NE	38 00						
7	iP	Z	03 43 58						
	eS	NE	44 17						
7	eP	Z	08 48 46						
	iS	NE	49 12						
7	iP	Z	20 34 59.5						
	iS	NE	35 34						
7	eiP	Z	23 15 27	3.1	1.8				
	iS	NE	17 02						
8	eP	Z	01 42 34	0.5	1.8				
	eS	NE	48.2						
	eL	ZNE	51.9						
8	iP	Z	07 32 03						
	eS	NE	23						
8	eP	Z	18 15 10						
	eS	NE	16 07						
8	eP	Z	21 32 05						
9	eP	Z	10 26 23						
	eS	NE	28 31						
9	eiP	Z	12 13 56	0.5	1.0				
10	iP	Z	05 11 52.9						
	eS	NE	12 56						
10	eP	Z	14 10 07						
	ePcP	Z	51						
	eS	NE	18 28						
	eSS	N	23 14						
	eSSS	N	25.8						
	eL	ZNE	29.0						
10	eP	Z	14 46 12						
	iS	NE	47 04.5						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAR 10	eP	Z	23	20	06						
11	iP	Z	01	16	21.5						
12	eP	Z	02	40	03						
	eS	NE		41	39						
12	iPcP	Z	04	07	55	0.5	2.0				
12	iP	ZNE	04	10	31.4						
	iS	NE			53						
12	eP	Z	04	32	56						
	eS	NE		34	57						
	eT	ZNE		47	50						
12	eP	Z	06	52	23						
	iS	NE			55						
12	eP	Z	09	13	01						
	iS	NE			24						
12	eP	Z	10	39	31						
	eS	NE		41	27						
12	iP	Z	17	20	09.5						
	eS	NE			50						
12	eP	Z	18	35	23	0.5	1.5				
12	eP	Z	18	51	34						
	eS	NE		52	06						
12	iP	Z	20	04	58.5						
	eS	NE		05	17						
12	eP	Z	22	44	15	0.5	2.1				
	e(SSS)	N	23	02	10						
	eL	Z		05	.4						
12	iP	ZNE	23	06	07						
	iS	NE			39						
13	eSSS	N	04	53	.7						
	eL	Z		56	.0						
13	iP	Z	06	20	57	1.5	2.1				
13	eP	ZN	08	41	24	0.5	2.0	0.5	1.8		
13	eP	Z	12	55	23						
	eS	NE		56	35						
14	eP	Z	05	12	42						
	iS	NE		13	32						
14	iP	ZNE	11	47	05.2	4.1	1.8	2.2	1.8	1.7	1.3
	iS	ZNE		48	47						
14	eP	Z	12	19	01						
	eS	NE		20	36						
14	e(S)	N	12	50	.0						
14	iP	ZNE	15	09	07	9.8	2.1	2.8	2.4	4.0	2.3

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAR	eS	N		11	30						
15	eP	ZNE	21	38	44						
15	iPKP	Z	22	50	19.8	0.9	2.3				
	ePP	Z		54	10						
	eSKS	Z		57	36						
	e	Z	23	02	.6						
	e	ZN		06	.7						
	ePPPS	ZN		09	24						
	e	ZN		12	30						
	eSSS	ZN		19	30						
	e	ZN		22	56						
	e	ZN		33	.0						
	eLq	ZN		38	.2						
	eLr	ZN		44	.0						
16	eP	Z	02	40	07						
	iS	NE			27						
16	iP	Z	02	51	52						
	iS	NE		52	28.4						
16	iP	Z	05	11	10.2	0.5	1.9				
16	iP	Z	08	51	09						
	iS	NE			35						
16	eP	Z	15	03	10						
	ipP	Z			23.6						
	eS	ZNE		07	12						
	eSS	Z		08	44						
16	eS	NE	19	08	00						
16	eP	Z	19	18	31						
	e	Z			50						
	eS	NE		22	00						
16	iP	Z	20	04	18						
	iS	NE			50						
16	iP	Z	21	41	54.7	1.5	1.4				
	iS	NE		43	38						
16	iP	Z	23	26	16.7						
	iS	NE		27	02						
17	eP	Z	10	21	07						
	eS	NE		22	18						
17	iP	Z	15	05	11	2.3	1.0				
	iS	ZNE			42						
17	eP	Z	17	49	17	0.5	1.8				
	i	Z			24	1.4	2.0				
	eS	NE		52	02						
17	iP	Z	17	55	49.4	0.5	1.8				
	eS	NE		58	29						
17	iP	ZNE	18	06	23	9.8	2.0	8.1	1.9	10.0	2.0
	i	ZNE			54						
	iS	ZNE		09	01						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAR 17	iP	ZNE	20	01	28.7	1.5	2.0	1.5	1.9	1.2	1.9
	eS	NE		04	03						
17	iP	ZNE	21	23	46.9						
	iS	NE		24	06						
18	iP	ZNE	00	11	46.9	16.4	1.5	11.0	1.8	7.7	2.0
	iS	NE		12	40						
18	eP	Z	01	29	35						
	eS	NE		30	33						
18	iP	Z	04	48	09						
	epP	Z		49	30						
	ePP	Z		50	24						
	eScS	ZNE		57	00						
	esS	N		59	42						
	e	ZNE	05	07	10						
18	iP	Z	05	19	21	1.5	1.2				
	eS	NE		21	01						
19	iP	ZNE	04	48	24.1	2.0	1.5	1.0	1.8	0.6	1.8
	iS	NE		50	24						
19	iP	ZNE	08	45	47.4	2.7	1.8	1.0	1.5	1.0	2.0
	iS	NE		47	24.5						
19	iP	ZNE	21	44	22						
19	iP	Z	23	17	42.6						
	iS	E			58						
20	eP	Z	01	31	09						
	eS	E			49						
20	eS	ZN	01	33.2							
	eL	ZN		42.6							
20	eP	Z	01	36	45						
	eS	ZE		38	03						
20	eP	Z	04	28	24						
20	iP	Z	13	53	07.7						
	eS	ZE			38						
20	iP	Z	16	52	58						
	iS	E		53	17						
20	eP	Z	19	16	44						
	eS	E		17	55						
	e	ZE		18.5							
20	eP	Z	19	22	02						
	iS	N			24						
20	eP	Z	23	58	23						
	eS	N		59	51						
	eL	N	00	00.3							
21	eP	Z	01	50	10						
	eS	ZNE			24						
21	iP	ZE	03	51	50.3						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAR	iS	NE		59	36						
	i	Z			46						
	i	N	04	01	14						
	isS	E		02	04						
	i	N		03	26						
	eSSS	ZNE		06	26						
21	eP	Z	04	16	57						
	iS	NE		17	21						
21	eP	Z	09	41	44						
	eS	NE		43	17						
21	iP	ZNE	10	57	48.2	7.9	1.2				
	iS	ZNE		58	19						
21	eL	ZNE	15	42.2							
21	eP	Z	16	30	31						
	eS	NE		33	03						
	eT	ZNE		42	29						
22	eS	ZN	08	59	00						
	eSS	ZN	09	04	54						
	eL	ZNE		15.9							
22	eP	Z	12	08	47						
	eS	NE		10	03						
22	eP	Z	22	52	15						
	iS	NE			33						
23	iP	Z	00	46	55					2.7	1.2
	iS	NE		47	48						
23	eP	Z	05	23	15						
	iS	NE			33.2						
23	iP	Z	09	21	44						
	eS	ZNE		25	03						
23	iP	Z	22	30	26						
	eS	NE		31	10						
24	iP	Z	00	29	05.3						
	eS	NE		30	34						
24	iP	Z	05	32	45.5						
	eS	NE		33	08						
25	eP	Z	11	35	29						
	eS	NE		36	37						
25	iP	Z	15	36	53						
	e	ZE		42	10						
26	eP	Z	01	44	55						
	eS	NE		46	21						
26	eS	ZE	02	21	00						
	eSSS	NE		26	00						
	eL	ZNE		28.1							
26	eS	NE	13	49	50						
	eL	ZE	14	00.0							

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAR 27	eP	Z	02	07	36						
	eS	NE			53						
27	i(P)	Z	02	09	07						
	iS	NE			59						
27	eP	Z	05	54	40						
	iS	NE			58						
27	iP	Z	20	24	52	1.0	0.8				
	e	ZNE		26	30						
	iS	NE		27	02						
28	iP	Z	03	48	08						
	i	ZNE			45						
	i	ZNE			58						
	i	ZNE		49	10						
	eT	ZNE	05	08	13					7.7	0.9
28	iP	Z	05	05	51.8						
28	iP	Z	06	55	25						
28	iP	Z	07	22	07						
28	iP	Z	09	12	24						
28	iP	Z	10	47	03.2						
28	iP	Z	11	40	50	5.3	2.3				
	iPcP	Z		41	24						
28	iP	Z	12	32	10						
28	iP	Z	14	59	31.3						
28	iP	Z	15	01	06						
28	iP	Z	17	23	41						
28	iP	Z	20	40	53.5						
	eS	ZNE		50	32						
	eSS	NE		55	30						
	eSSS	Z		59	04						
	e	E	21	00	.0						
	eL	ZN		03	.2						
29	eL	ZN	01	44	.5						
29	eP	Z	04	24	10						
	eL	ZN		54	.1						
29	iP	Z	06	16	12.3						
	eS	ZNE		25	20						
	eSS	ZE		29	40						
	eL	ZNE		36	.7						
29	eL	ZN	08	25	.2						
29	iP	Z	15	44	17						
29	eS	ZNE	17	02	48						
	eL	ZN		15	.2						
29	eP	Z	21	47	04	1.2	2.0				

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAR	eS	ZN		52	30						
	eL	Z		56	.2						
30	iP	Z	02	29	36.4						
	e	Z		36	08						
	eS	ZNE		38	52						
	eSS	ZNE		43	08						
	e	N		45	00						
	eSSS	ZE		46	42						
	e	N		47	56						
	eL	ZN		50	.6						
30	iP	Z	06	23	32						
	iS	NE		24	24						
30	eS	ZNE	07	31	.1						
	eSS	ZN		35	.5						
	eSSS	ZNE		39	.6						
	eL	ZNE		43	.7						
30	eL	ZNE	13	36	.0						
30	eS	ZNE	16	30	.2						
	eL	ZNE		42	.0						
30	eP	Z	18	44	39						
	eS	NE		46	35						
	eT	ZNE		55	06						
30	eL	ZN	18	47	.1						
31	eS	ZNE	00	34	06						
31	iP	ZNE	17	06	32	4.7	2.0	3.6	2.0	4.0	2.0
APR 1	eL	ZN	03	56	.1						
1	iP	Z	06	12	13.3						
	iS	NE			29						
1	iP	Z	14	16	45						
	iS	NE		17	06						
2	iP	Z	01	17	51.9	1.8	1.6				
	eS	NE		20	06						
2	ePcP	Z	01	25	18						
	ePP	Z		28	50						
	e	Z		33	12						
	eSKS	ZE		35	32						
	eS	N		36	24						
	e	ZE		37	26						
	eSS	ZNE		42	.2						
	eSSS	NE		46	.1						
	eL	N		49	.5						
	eL	E		52	.2						
2	iP	Z	11	29	30						
	iS	NE		30	04						
2	iP	Z	16	07	21						
	eS	NE		15	54						
	eSSS	N		23	.2						
	eL	N		25	.6						
	eL	ZE		27	.0						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
APR	2	iP	Z	19	41	25.4						
		iS	NE			46						
	2	eL	Z	23	09	3						
	3	eS	NE	04	36	50						
	3	eP	Z	08	51	09	0.4	1.5				
		eS	NE		53	32						
		eT	ZNE	09	06	08						
	3	eL	ZN	09	21	1						
	3	eP	Z	19	12	49	0.5	2.0				
	3	iP	Z	20	54	12.8	0.5	1.0				
		iS	NE		55	00.3						
	3	eP	Z	22	45	40	0.4	1.4				
		eS	ZN		55	30						
		eLq	ZNE	23	06	1						
		eLr	ZNE		08	2						
	3	iP	ZNE	23	20	37	7.1	1.5	4.6	1.8	3.6	1.3
		iS	NE		21	02						
	4	iP	Z	01	21	02.6	0.5	1.0				
		eS	NE		22	10						
	4	eP	Z	05	05	49						
		eS	N		15	30						
		eSS	ZN		20	20						
		eSSS	E		25	2						
		eL	ZNE		28	2						
	4	eP	Z	08	51	55						
		eS	ZNE	09	01	10						
		eSS	E		05	54						
		eSSS	E		09	4						
		e	N		10	0						
		eL	ZN		13	0						
		eT	ZNE	10	10	14						
	4	iP	Z	09	22	20.3	0.5	1.9				
		eS	N		32	20						
		eSSS	ZNE		40	2						
		eL	ZN		43	2						
		eT	ZNE	10	40	45						
	4	eP	Z	17	30	42						
		eS	NE		31	54						
	4	eP	Z	17	57	32	0.5	2.0				
		iS	NE	18	06	48						
		eSS	ZNE		11	00						
		eSSS	E		14	3						
		e	ZN		15	4						
		eL	ZN		18	2						
	4	eP	Z	18	11	09	0.4	2.0				
	4	eP	Z	18	19	40						
		iS	NE		20	47						
		eT	ZNE		24	42						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
APR	4	eL	ZN	22	51	1						
	5	eP	Z	01	33	40	0.6	2.1				
		eS	ZNE		42	52						
		eSS	ZN		46	36						
		eSSS	N		49	28						
		e	NE		51	24						
		eL	ZN		54	7						
		eT	ZNE	02	51	25						
	5	eP	Z	01	53	04						
	5	eP	Z	02	22	02						
		eS	NE			20						
		eT	ZNE		23	40						
	5	iP	Z	04	34	23	1.7	1.4				
		iS	NE			37						
		eT	ZNE		35	55						
	5	eP	Z	07	53	10						
		iS	NE			53						
	5	eL	ZN	11	55	2						
	5	eP	Z	19	40	09						
		eL	ZN	20	02	8						
	5	eP	Z	22	26	21						
	6	iP	Z	01	25	26	0.3	1.2				
		eS	NE		27	23						
	6	eP	Z	02	36	08						
		iS	NE		37	11						
	6	iP	Z	04	36	29	5.0	1.0				
		iS	NE			48						
	6	iP	Z	04	51	38						
		iS	NE		52	00						
	6	iP	Z	06	08	59.8						
		iS	NE		09	13						
	6	iP	Z	07	14	59						
		iS	NE		15	17						
	6	eP	Z	13	55	33						
		e(S)	NE		56	38						
	6	e(S)	NE	22	03	00						
	6	iS	NE	22	37	38						
	6	iP	Z	22	58	53						
		i	ZNE		59	06						
		e(S)	ZNE			59						
	6	eS	NE	23	31	08						
	6	eS	NE	23	55	00						
	7	eP	Z	11	25	47						
		eS	NE		26	58						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
APR 7	iP	Z	13 28 52	1.3	2.4				
7	eL	Z	18 35.3						
8	iP	Z	04 13 11.3						
	iS	NE	28						
8	eL	Z	09 03.3						
8	eS	ZN	11 18 14						
	eSS	Z	22.3						
	eSSS	ZNE	26.0						
	eL	ZNE	29.0						
8	iP	Z	14 53 57	1.6	1.0				
	i	Z	54 19						
8	eP	Z	23 52 57						
	eS	NE	54 46						
9	eP	Z	02 00 12						
	eS	NE	40						
9	iP	Z	21 22 39						
	iS	NE	59						
10	iP	ZN	04 44 40.6						
	iS	ZNE	45 01						
10	iP	Z	21 55 52.3	2.0	2.0				
11	iP	ZN	01 08 01						
	eS	ZNE	10 44						
	eT	ZNE	20 42						
11	iP	Z	07 38 46.2						
	eS	ZNE	39 13						
12	eP	Z	01 35 59						
	eS	ZNE	45 12						
	eSS	Z	49 44						
	eSSS	E	53.5						
	e	N	54.0						
	eL	ZN	57.0						
12	eP	Z	06 05 48	0.7	2.0				
	eS	Z	09 38						
	eSS	N	10 08						
	eL	Z	11.3						
12	eL	ZN	10 08.4						
12	eP	Z	10 54 02						
	iS	NE	30						
12	iP	ZNE	11 15 32.2	4.2	2.0	2.5	2.0	1.1	2.0
	eS	ZNE	19 12						
	eT	ZNE	35 00						
12	eP	Z	11 51 26						
	eS	NE	51						
12	eS	ZN	13 09.5						
	eL	ZN	26.6						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
APR 12	eL	ZN	17 56.7						
12	iP	Z	20 41 05	1.0	1.5				
13	eP	ZNE	03 05 27	2.0	1.3				
	eS	NE	07 29						
13	iP	Z	06 25 32.5	1.5	0.8				
	eS	ZNE	27 05						
13	eiP	Z	08 01 28	1.9	1.1				
	eS	ZNE	02 16						
13	ePKP	Z	08 49 48						
	eL	Z	09 39.2						
13	iP	Z	11 32 52.2						
	iS	NE	33 12						
13	eS	NE	12 48 10						
	eSSS	E	56.4						
	eL	ZN	13 00.0						
13	eP	Z	14 16 35						
	eL	ZN	38.0						
13	eL	ZN	16 47 30						
13	eL	ZN	21 58.4						
13	eL	ZN	22 17.5						
14	eL	ZN	01 36.4						
14	iP	Z	02 29 50.2						
	eS	NE	30 55						
14	iP	Z	09 03 14.8	0.5	2.0				
	eS	ZNE	07 10						
	eL	ZE	08 10						
14	iP	Z	10 46 15.3						
	eS	NE	47 55						
14	eL	ZN	16 30.4						
14	eP	Z	22 48 13						
	eS	NE	49 33						
14	eP	Z	23 07 03						
	eL	ZN	28.3						
15	iP	Z	03 08 31.8						
	iS	NE	09 03						
15	eP	Z	05 43 08						
15	eP	Z	15 42 09						
	eS	ZE	51 26						
	eSSS	E	59.3						
	eL	ZN	16 02.8						
15	eP	Z	16 57 52						
	e	ZNE	59 48						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
APR 15	iP	Z	21	10	53						
	iS	NE			58						
15	eP	ZN	21	36	56						
	eS	ZNE		38	05						
15	eP	Z	23	07	00						
	eS	NE			34						
	eT	ZNE		10	22						
16	eS	ZN	01	24.3							
	eL	ZN		34.5							
16	eP	Z	02	06	47						
	eS	NE		07	34						
16	iP	Z	02	39	58	2.2	1.9				
	eS	NE		43	50						
16	eP	Z	11	48	20						
	eS	NE		50	25						
16	eS	N	14	02.8							
	eL	ZNE		10.1							
16	iP	Z	14	11	41						
16	eP	Z	19	38	19						
	eS	ZNE		47	36						
	eSSS	N	54	38							
	eL	NE		56	30						
	eL	ZN		59.2							
16	eP	Z	22	28	21						
	eS	NE		30	33						
17	eP	Z	05	00	57						
	eS	ZNE		10	10						
	eSSS	E		18.4							
	eL	ZN		22.0							
17	iP	Z	06	06	30.6	0.5	1.1				
	eS	ZE		12	00						
	eSS	ZNE		14.0							
	eL	ZE		16.0							
17	eP	Z	09	20	37	0.5	2.0				
	eL	N		39.0							
	eL	ZN		43.0							
18	eS	N	05	47	42						
	eL	ZN		58.0							
18	eL	ZN	08	31.2							
18	eP	Z	12	04	48						
	eS	NE		05	28						
18	iP	ZE	17	56	58.2	13.2	1.2				
	iS	NE		57	25						
18	iP	Z	18	35	29.7						
18	eS	ZN	20	37	00						
	e(SS)	ZN		41.1							

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
APR	eL	ZN		48.5							
19	iP	ZNE	03	56	50						
	iS	NE		57	13						
19	eSS	NE	04	05.9							
	eL	ZNE		08.2							
19	eS	ZNE	05	35	08						
	eL	ZNE		49.1							
19	eP	Z	08	40	08						
19	iP	Z	14	04	45						
19	eP	Z	14	25	29						
	eS	ZNE		36	00						
	eSS	ZNE		42	18						
	eSS	ZE		45	40						
	eLq	ZNE		48	56						
	eLr	ZNE		51	40						
20	iP	Z	12	08	46	1.3	2.1				
	eS	ZNE		18	28						
	eSSS	E		28.3							
	eL	ZNE		32.0							
20	iP	Z	14	16	58						
	iS	NE		17	48						
20	eP	Z	15	31	43	1.4	2.0				
20	eL	ZN	16	53.8							
21	iP	Z	02	29	47.6						
	iS	NE		30	03.6						
21	eL	ZN	05	36.6							
21	iP	Z	16	35	21.5						
	iS	NE			57						
21	iP	Z	21	49	20.4	2.6	1.9				
	eS	NE		52	41						
22	iP	Z	02	24	02.8						
	iS	NE			24.8						
22	eP	Z	13	26	48						
	eS	NE		27	06						
22	iP	Z	19	38	33						
	eS	NE		39	05						
22	eP	Z	20	04	48	3.0	2.0				
	ipP	ZE		05	25						
	eS	NE		08	16						
22	eP	Z	23	08	37						
23	iP	ZE	03	42	15	5.5	2.0				
	ePP	ZE		44	20						
	eS	ZNE		49	44						
	eSS,	ZN		53	30						
	iSSS	N		55	51						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
APR	iL	ZE		58	56						
23	eP	Z	03	54	47						
	eS	NE		55	13						
23	eP	Z	10	39	20						
	eL	ZE		48.7							
23	eP	Z	13	20	04						
	eS	NE		21	12						
	eT	ZNE		26	42						
23	iP	Z	13	34	42.9						
24	eP	Z	03	20	17						
	eS	NE		21	53						
24	eL	ZNE	04	23.5							
24	iP	ZE	06	04	11	8.0	2.0			5.5	2.0
	iPP	ZE		06	12						
	iPcS	Z		09	40						
	eS	ZNE		10	30						
	iSS	ZNE		14	00						
	iL	ZE		17	36						
	iL	ZE		19	12						
24	eP	ZE	06	17	35	0.6	2.0				
24	eP	Z	09	37	27						
	iS	NE		38	07						
24	eP	Z	10	06	44	0.4	1.0				
	eS	NE		07	58						
24	eP	Z	10	37	31						
	eS	NE		39	03						
24	eP	Z	11	15	45						
	eS	NE		17	28						
24	eS	ZE	15	03	16						
24	iP	Z	17	19	40.4						
	iS	NE		20	22						
25	e	ZNE	05	41	14						
	eL	ZNE		52.8							
25	e(L)	ZE	06	34.7							
25	eP	Z	14	17	02						
	iS	NE			20						
25	iP	Z	14	55	45						
	iS	NE		56	31.3						
26	iP	Z	02	22	25.3						
	iS	NE			39						
26	iP	Z	09	25	14						
	eS	NE		26	13						
26	iP	Z	14	11	42						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
APR 26	iP	Z	14	44	10.4	4.5	1.0				
	iS	NE			35.6						
26	iP	ZNE	14	54	12	14.1	1.3	8.7	1.6	6.0	1.9
	iS	ZNE		55	48.4						
26	eP	Z	22	00	58						
	e(L)	ZE		24.1							
26	eL	ZNE	23	39.7							
27	iP	Z	02	45	00						
	iS	NE			19						
27	eP	Z	06	53	40						
	eS	ZNE	07	01	28						
	eSS	NE		05	04						
	eSSS	ZNE		07	08						
	eL	ZN		09	45						
28	eL	Z	15	04.5							
	eL	ZE		05.6							
28	iP	Z	20	02	01						
	iS	NE			30						
28	iP	Z	22	27	25						
28	eP	Z	23	31	25						
	eS	NE		32	57						
29	iP	Z	01	40	47.5	1.3	0.9				
	eS	NE		42	16						
29	ePKP	Z	04	41	00						
29	iP	ZN	06	52	13.8	8.3	0.7				
	iS	NE			34						
29	iP	Z	07	27	57.6	0.6	2.0				
29	eiP	Z	09	22	29						
	eS	NE			54						
29	eiP	Z	17	21	38						
	eS	NE		23	06						
30	iP	Z	02	32	30						
	eS	NE		33	04						
30	iP	ZNE	03	42	37	10.0	2.0	5.5	2.0	6.0	2.0
	iS	NE		43	17						
30	iP	Z	04	51	44.8	2.0	2.0				
	iS	NE		53	12.3						
30	eP	Z	16	10	29						
	epP	Z			44						
	eS	ZNE		16	00						
	eSS	ZNE		18.2							
	eL	ZE		20.2							
30	eL	ZNE	18	01.2							
30	eSS	ZN	19	12.2							

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
APR	30	eS	ZN	21	46.2							
MAY	1	eS	NE	06	23.4							
		eL	ZN		37.1							
	1	iP	Z	11	13	45						
		eS	NE		14	00						
	1	eL	ZNE	23	56.5							
	2	eP	Z	15	11	32						
		eS	NE		12	00						
	2	eP	Z	16	22	00						
		iS	ZNE		31	00						
		eSS	ZN		34	42						
		eSSS	ZE		38.3							
		eL	ZNE		41.7							
	2	iP	Z	16	37	00						
		eS	NE		39	29						
	2	eP	Z	16	41	31						
		eS	NE		42	00						
		eT	ZNE		44	11						
	2	eP	Z	16	53	49						
		eS	NE		55	36						
	2	eP	Z	21	58	18						
		eS	NE			40						
		e(T)	ZNE	22	00	11						
	2	iP	Z	22	14	51						
		iS	NE		15	22						
	3	eP	Z	04	45	06						
		eS	NE		46	37						
	3	iP	Z	14	11	13.4						
		iS	NE			48						
	4	iP	Z	15	35	44.4						
		iS	NE		36	04						
	4	eP	Z	15	39	51						
		iS	E		40	27						
		eT	ZNE		42	56						
	4	eL	Z	17	54.3							
	4	eP	Z	21	57	22						
		iS	NE		58	02.3						
	5	eL	ZN	08	32.6							
	5	eSS	ZN	08	58.6							
		eL	ZE	09	00.0							
	5	eP	Z	12	22	46						
		eS	NE		24	50						
	5	eP	Z	21	04	31						
		iS	NE		05	00.6						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAY	6	iP	Z	05	09	07.4	0.5	1.7				
		eS	NE		10	46						
	6	eL	ZN	05	13.6							
	6	iP	ZE	08	16	15	3.2	2.2	1.4	2.0		
		eS	ZNE		20	42						
		iL	N		21	46						
	6	iP	ZN	08	53	02.2						
		e(S)	N		54	10						
	6	eP	Z	15	38	05						
		eS	ZNE		47	20						
		eSSS	E		55.7							
		eL	ZN		59.3							
	6	iP	Z	15	55	16						
		iS	NE			37						
	6	eP	Z	17	11	20						
		iS	NE		12	26.3						
	6	eP	Z	20	36	07						
		eS	NE		39	27						
	7	iP	ZNE	00	36	29.2	11.4	2.0	9.4	2.0	7.7	2.0
		eS	NE		37	39						
	7	ePKP	Z	06	05	15	3.3	2.3				
		ePP	Z		08.3							
		e	E		15	42						
		eSKSP	Z		18	54						
		e	Z		24	16						
		e	NE		27	50						
		eSSS	ZNE		32	25						
		eL	ZNE		44.5							
		eL	ZNE		48.0							
	7	iP	Z	07	20	08.6						
		iS	NE			26						
	7	iP	ZN	08	09	29						
		iPP	ZN		12	18						
		eS	ZNE		18	40						
		iSS	Z		23	26						
		iSSS	NE		26	50						
		iL	NE		27	52						
		iL	ZNE		29	32						
	7	eP	Z	20	24	06	1.1	2.0				
		eS	ZNE		33	18						
		eSS	Z		38	04						
		eSSS	ZNE		41.4							
		eL	E		42	34						
		eL	ZNE		44.2							
	7	eP	Z	23	01	42						
		eS	NE		03	14						
	7	eP	Z	23	16	49	0.5	2.0				
		eS	NE		20	11						
	8	eP	Z	02	02	58						
		eS	NE		04	53						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAY	8	eP	Z	03	12	07						
		eS	NE		14	30						
	8	eP	Z	03	40	26	0.5	2.0				
		eS	E		44	10						
	8	eP	Z	04	00	31						
		S	NE		02	15						
	8	e	ZN	04	08.0							
	8	eP	Z	04	08	26						
		eS	NE		09	45						
	8	eP	Z	12	10	06						
		eS	NE		11	16						
	8	iP	Z	13	24	55.2						
		iS	NE		25	07						
	8	eP	Z	16	04	30						
		iS	NE		05	03						
	8	eP	Z	16	33	20						
		eS	ZNE		42	40						
		eSS	Z		47.0							
		eSSS	E		50.8							
		eL	ZN		54.0							
	8	eL	ZN	22	09.7							
	8	iP	Z	23	21	36						
		iS	NE		22	02						
	9	eS	ZNE	00	00	22						
		e	E		07.2							
		eSSS	ZN		08.0							
		eL	ZN		09.9							
	9	eLq	E	02	29.5							
		eLr	ZN		32.2							
	9	eP	Z	12	15	00						
		eS	NE		16	25						
		eL	ZNE		17.0							
		eT	ZNE		23	02						
	9	iP	Z	18	21	01.3	1.4	2.0				
		eS	ZNE		25	10						
		eL	ZNE		26.4							
	9	iP	Z	21	14	01.3	0.9	2.3				
		eL	ZN		22.7							
	11	iP	Z	02	55	14.4	1.0	1.2				
		eS	NE		57	04						
	11	eP	Z	05	32	05						
		eS	NE		34	21						
	11	iP	Z	09	14	39	0.7	1.0				
		eS	NE		15	49						
	11	eP	Z	14	41	14						
		eS	NE		42	52						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAY		eL	ZNE		43	08						
	11	iP	Z	20	39	12						
		iS	NE			54						
	12	iP	Z	01	41	10	3.1	2.1				
		eS	NE		43	40						
	12	eP	Z	06	47	29						
		eS	NE		49	19						
	12	eP	Z	10	03	58						
		eS	NE		05	00						
		eT	ZNE		10	10						
	12	iP	Z	14	15	16						
		iS	NE			37						
	12	iP	Z	18	18	36						
		eS	NE		19	45						
		eL	ZN		20.0							
		eT	ZNE		25	00						
	12	eL	Z	18	49.2							
	12	eP	Z	21	37	35						
		eS	NE		38	19						
	13	eP	Z	00	03	53						
		eS	NE		05	38						
	13	eP	ZE	00	08	11	1.0	2.0	1.2	2.0		
		eS	ZNE		09	16						
	13	iP	Z	01	36	41.4						
		iS	NE		37	21						
	13	iP	Z	05	29	53	4.4	2.0				
		eS	NE		33	18						
	13	iP	Z	11	08	43	2.0	1.5				
		eS	NE		10	37						
	13	eP	Z	16	47	13						
		eS	NE		50	38						
	13	iP	Z	20	42	13.4	1.0	1.9				
		eS	NE		45	28						
	14	iP	Z	01	08	13.1						
		eS	NE		09	41						
	14	iP	Z	01	09	56.5	1.5	2.2				
		eS	NE		13	04						
	14	eP	Z	09	56	20						
		eS	NE		57	21						
	14	iP	ZNE	20	03	22	9.3	1.9	4.0	1.9	3.0	1.9
		eS	NE		05	13						
	15	iP	Z	06	35	52						
		iS	NE		36	15						
	15	eS	NE	11	04	08						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAY	eSSS	ZNE		07	12						
	eL	ZE		09	0						
16	eP	Z	16	12	13						
	eS	NE		15	52						
	eL	ZN		17	6						
16	e(P)	Z	16	14	19						
17	eL	E	01	24	0						
	eL	ZN		25	6						
17	eS	N	05	02	00						
	eL	ZN		11	8						
17	eP	Z	11	16	49						
	eS	NE		18	08						
17	eP	Z	17	09	56						
	eS	NE		13	40						
	eL	ZNE		15	3						
17	ePPPS	ZN	20	01	50						
	eSS	NE		06	20						
	eSSS	ZNE		11	10						
	e	ZN		21	30						
	eL	ZE		29	0						
	eL	N		30	0						
18	eP	Z	14	13	57						
	iS	NE		15	18						
	eT	ZNE		21	29						
18	e(L)	Z	18	18	7						
18	iP	Z	23	01	48						
19	iP	Z	02	09	17	4.5	0.9				
	iS	NE			35						
19	eL	ZN	11	10	2						
19	eS	ZNE	23	27	16						
	e	ZE		28	52						
	eSSS	ZN		33	31						
	eL	Z		37	22						
	eL	ZE		45	2						
21	eLq	Z	16	06	46						
	eLr	ZN		09	7						
21	eP	Z	17	07	00						
	iS	NE			31						
22	eS	ZNE	00	35	2						
	eL	NE		37	6						
22	e(L)	ZNE	02	18	7						
22	eP	Z	10	34	24						
	iS	NE			54						
22	eL	ZN	13	20	3						
22	eP	Z	15	01	46						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAY	eS	NE		02	28						
	eT	ZNE		05	18						
22	iP	Z	17	33	35.2	0.7	1.3				
	eS	NE		35	07						
23	eP	Z	07	31	31						
	iS	NE		32	18						
23	iP	Z	11	32	22	0.5	1.8				
23	iP	Z	12	29	44.6						
	iS	NE		30	03						
23	eP	Z	12	36	36						
	iS	NE		37	09						
23	iP	Z	17	42	03	1.0	1.2				
24	eP	Z	04	15	05						
	iS	NE		16	32						
	eT	ZNE		23	12						
24	eS	ZNE	10	51	10						
	eSSS	ZNE		58	26						
	eL	ZNE	11	01	0						
24	eP	Z	20	34	31						
	iS	NE		35	58						
24	eP	Z	22	27	39						
	eS	NE		29	27						
25	eP	Z	05	03	46						
	eS	ZNE		06	37						
25	iP	ZE	08	33	48.4						
	iS	NE		34	32						
25	eSSS	ZN	20	24	5						
	eL	Z		30	0						
26	eP	Z	08	06	12						
	eS	NE		08	15						
26	eP	Z	11	13	13	0.5	2.0				
	e	Z		16	24						
	ePP	ZNE		17	26						
	eS	ZNE		24	18						
	iPKKP	Z		28	59						
	iSS	ZNE		32	06						
	iSSS	ZNE		36	16						
	iL	E		39	46						
	iL	E		42	40						
26	eP	NE	23	31	09						
	iS	NE			30						
27	eS	Z	01	23	7						
	eSS	Z		29	0						
	eSSS	Z		33	6						
	eL	Z		39	0						
27	iP	NE	07	07	57						
	eS	NE		10	10			0.8	1.9	1.3	1.9

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAY	27	eL	ZN	07	18	.0						
	27	eP	NE	09	00	08						
		eS	NE		02	24						
	27	eP	NE	11	21	36						
		i	NE			50						
		iS	NE		22	20						
		eT	NE		26	09						
	27	eP	NE	13	27	57						
		eS	NE		29	15						
	27	eP	NE	15	50	05						
		eS	NE		51	22						
		eT	NE		57	50						
	27	eP	NE	18	47	13						
		eS	NE		48	26						
		e(T)	NE		55	06						
	27	eP	NE	19	06	14						
		eS	NE		07	37						
		e(T)	NE		14	04						
	28	eP	Z	03	58	56						
		eS	NE	04	00	13						
	29	e1P	Z	06	01	39						
		iS	NE			57						
	29	eP	Z	12	27	08						
		eS	NE		28	32						
	29	eP	Z	18	38	11	2.0	2.0				
		eS	NE		40	44						
	29	eP	Z	18	45	30						
		eS	NE		47	44						
	29	eP	Z	19	05	08						
		eS	NE		07	40						
	31	e	ZNE	02	05	49						
	31	eP	Z	13	58	41						
		eS	NE	14	00	35						
	31	iP	Z	15	45	43						
		iS	NE			52						
	31	eP	Z	17	19	07						
JUN	1	iP	Z	06	09	34.7	4.0	2.0				
	1	iP	Z	13	19	15	1.0	2.1				
	1	iP	Z	19	58	46						
		iS	NE			58						
	1	eP	Z	23	16	51						
		e(S)	NE		17	28						
	2	iP	Z	03	48	44						
		iS	NE		49	02						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUN	2	eP	Z	04	03	46						
		iS	NE		04	37						
	2	eS	N	08	47	16						
	2	eP	Z	23	17	16						
	3	iP	Z	06	57	00						
		iS	NE			19						
	3	eP	Z	10	14	43						
		iS	NE		15	06						
	3	eP	Z	20	06	34						
		iS	NE			57						
	3	iP	Z	11	59	40.5						
		iS	NE			53						
	3	iP	Z	12	55	30						
		iS	NE			48						
	3	eP	Z	17	55	30						
		iS	NE		56	23						
		eT	ZNE	18	00	30						
	4	eP	Z	00	19	33						
		iS	NE		20	02						
	4	eS	E	04	50	.6						
		eL	ZE	05	04	.0						
	4	eP	Z	11	24	30			0.5	2.0		
		eS	ZNE		30	20						
		eSS	ZNE		33	.4						
		eL	ZE		34	.6						
	4	iP	Z	11	54	58.9			1.6	1.0		
		eS	NE		55	57						
	5	eP	Z	01	06	20						
		eS	NE		08	25						
		eT	ZNE		18	02						
	5	eP	Z	09	16	08			0.7	2.0		
		eS	NE		17	55						
		eL	Z		18	.4						
	5	eL	Z	10	25	.7						
	5	eP	Z	14	34	14						
		eS	NE		35	24						
	5	eP	Z	16	37	07						
		eS	NE			51						
		eT	ZNE		40	35						
	5	eL	Z	22	40	26						
	6	eP	Z	00	18	46						
		iS	NE		19	22						
	6	iP	Z	19	17	22			1.7	2.5		
		eS	ZE		25	10						
		eSSS	E		30	48						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUN	eL	ZE			32.6						
6	iP	Z	21	18	05.4						
	iS	NE			29						
7	eP	Z	08	22	13						
	eS	NE		23	00						
	eT	ZNE		27	00						
7	iP	Z	10	09	28.1						
	iS	NE		10	03						
7	eP	Z	13	09	04						
	iS	NE			51						
	eL	ZNE		10.0							
	eT	ZNE		13	26						
7	eP	Z	16	49	49						
	eS	NE		50	38						
	eT	ZNE		54	53						
7	eS	ZN	20	54.1							
	eL	ZN	21	02.2							
8	eP	Z	02	29	11	0.7	1.9				
	iS	NE		31	09						
8	iP	Z	16	49	25.1						
	eS	NE		50	21						
8	eL	ZE	18	13.8							
8	iP	Z	23	02	18						
9	iP	Z	00	29	50.9						
	iS	NE		30	10						
9	eP	Z	03	56	58	1.0	0.8				
	eS	NE		58	58						
9	iP	Z	05	59	43	2.9	1.8				
	iS	NE	06	00	02						
9	iP	ZNE	08	01	24	3.5	1.9	1.6	1.8	1.1	1.9
	iS	NE			40						
9	iP	Z	15	04	17.2	1.3	1.0				
	iS	NE		05	48						
9	iP	Z	19	51	05.8	2.5	0.8				
	iS	NE			26						
10	iP	Z	07	42	31						
	iS	NE			48						
10	iP	Z	10	57	30.8						
	iS	NE		59	04						
10	eP	Z	11	24	15						
	eS	NE			58						
	eT	ZNE		29	04						
10	iP	Z	19	18	23.3	2.0	2.2				
	eS	N		22.0							
	eL	ZE		23	46						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUN 10	iP	Z	22	27	06	1.0	2.0				
	ePcP	Z			28						
	eS	NE		35	30						
	eSS	E		38.4							
	eSSS	NE		42.5							
	eL	NE		45.0							
11	iS	NE	01	07	30						
11	iP	Z	14	14	55						
	iS	NE		15	44						
11	eP	Z	17	10	32						
	eS	E		17	40						
	eSS	N		21.4							
	eL	E		24.2							
12	iP	Z	09	01	52						
	iS	NE		02	19						
12	eP	Z	10	17	38						
	eS	NE		19	32						
12	eP	Z	10	58	45						
	eS	E	11	05	56						
	eSS	E		09.6							
	eL	E		12.3							
	eL	E		16.6							
12	iP	Z	18	15	28						
	iS	NE		18	05						
13	iP	Z	11	17	47	1.0	2.0				
	eS	E		21	00						
	eL	E		21.7							
13	e(S)	E	15	59	28						
13	eP	Z	22	35	04						
	eS	NE		37	32						
	iL	E		39	04						
13	eP	Z	23	48	27						
	iS	NE		49	42						
14	iP	Z	01	23	17						
	eS	NE		26	34						
	iL	E		27	12						
14	e(S)	NE	05	20	00						
	iL	E			58						
14	eP	Z	19	53	27						
	iS	NE		54	21.1						
15	eS	NE	00	30	00						
	eSS	NE		38	10						
	eL	NE		50.7							
15	iP	Z	02	06	46						
	iS	NE		07	32						
15	eP	Z	06	13	31						
	iS	NE		14	05						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUN 16	iP	Z	04	12	48.2						
	iPcP	ZN		13	04						
	i	E			09						
	iPP	NE		15	46						
	iS	NE		22	00						
	iSS	NE		26	08						
	iSSS	NE		29	50						
16	iP	Z	08	01	50						
	iS	NE		02	24						
16	eP	Z	08	36	16						
	eS	NE		37	49						
16	iP	Z	09	58	38						
	eS	NE	10	00	11						
16	eL	NE	11	39.3							
16	eP	Z	11	49	01						
	iS	NE			20						
16	iP	Z	18	40	07	0.8	1.5				
	eS	NE		42	32						
16	iP	ZNE	22	03	39						
	iS	NE			58						
17	eP	Z	13	26	11						
	iS	NE			45						
17	iP	ZN	22	20	19	2.5	1.5	1.4	2.0		
	eS	NE		22	24						
18	eL	N	18	37.5							
	eL	E		38.6							
18	eP	Z	21	24	27						
	iS	NE		25	21						
19	iP	Z	00	09	11	0.6	1.4				
	eS	NE		10	58						
19	eP	Z	04	50	14						
	iS	NE			48						
19	iP	Z	11	17	18						
	iS	NE		18	08						
20	iP	ZE	04	48	34.2						
	iS	NE			55						
20	eP	Z	10	00	40						
	iS	NE		01	44						
	eT	ZNE		07	13						
20	iP	Z	12	34	10	0.5	1.9				
	eS	NE		36	04						
21	iP	Z	19	04	07						
	iS	NE			25						
21	eP	ZE	22	23	49					0.7	2.0
	eS	NE		25	40						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUN 21	eP	ZNE	22	59	15.7					0.9	1.9
	eS	NE	23	00	46						
22	iP	Z	00	16	56.3	1.5	0.8				
	iS	NE		17	22						
22	iP	Z	03	09	12	0.9	2.0				
	eS	NE		13	44						
	eL	NE		14.0							
22	eiP	ZNE	07	44	43	5.7	1.5	2.0	1.8	1.8	1.8
	eS	NE		46	31						
22	eiP	Z	13	42	53						
	eS	NE		44	56						
23	iP	ZNE	01	37	34.1	1.5	2.1	1.2	2.0	1.2	2.0
	eS	NE		46	32						
	eSS	E		51	22						
	eSSS	NE		54	24						
	iL	NE		57	16						
23	e(P)	Z	02	52	06						
	i	NE			51						
23	eP	Z	09	20	05						
	eS	NE		21	00						
	eT	ZNE		24	50						
23	eP	Z	09	31	37						
	eS	NE		32	00						
	eT	ZNE		34	00						
23	iP	Z	17	03	01	2.0	1.9				
	eS	NE		04	08						
23	iP	Z	19	53	41.2						
	eS	NE		54	18						
24	eP	Z	00	02	32						
	eS	NE			48						
24	iP	Z	11	01	05.2						
	eS	NE			25						
24	iP	Z	11	18	50.5	1.3	2.0				
25	eP	Z	11	04	24						
	eS	NE		06	08						
25	iP	Z	14	19	38	0.9	1.2				
26	eP	Z	02	51	44						
	eS	NE		52	26						
26	eP	Z	07	38	39						
	iS	NE		39	11						
26	eP	Z	13	14	07	1.0	1.9				
	eL	E		46.8							
27	iP	Z	11	30	03.7						
	eS	NE			23						
27	iP	Z	11	46	31	0.9	1.9				

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUN		iS	NE		48	18						
	28	eP	Z	12	59	15						
		eS	NE	13	05	20						
		eSS	NE		08	20						
		eL	NE		10	08						
		eL	E		11	30						
	28	iP	Z	14	46	19	3.5	0.9				
		eS	NE			44						
	28	iP	Z	14	56	32.4	2.5	1.9				
	28	eSS	E	18	09.3							
		eL	E		33.8							
	28	eL	N	19	43.8							
	29	eP	Z	07	13	04						
		eS	NE			49						
		eT	ZNE		16	40						
	29	eL	N	07	58.0							
	29	eP	Z	10	35	27						
		eS	NE		36	04						
	29	iP	Z	12	38	05.3						
		iS	NE			25						
	30	eP	ZNE	05	31	10						
		eS	NE		34	03						
	30	eP	Z	10	16	14						
		i	N			24						
		eS	NE		17	22						
		eT	ZNE		22	38						
	30	iP	Z	10	28	02.5						
		eS	NE		29	37						
	30	eP	Z	13	57	09	3.9	2.5				
		eS	NE	14	06	00						
		eSS	NE		09.2							
		eSSS	N		13.6							
		eL	E		18.6							
	30	eS	E	16	07.7							
		eL	NE		19.2							
	30	eP	Z	17	55	35						
	30	eP	Z	22	17	10	0.5	1.8				
JUL	1	iP	Z	09	01	02.2	1.9	1.0				
		iS	ZNE			22.3						
	1	eL	N	10	18.3							
	1	eP	Z	21	18	16						
		iS	NE			40						
	2	eP	Z	22	11	22						
		eS	NE		12	33						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUL	3	eP	Z	06	45	12						
		iS	NE			58						
	3	iP	Z	07	36	43.8						
		iS	NE		37	15						
	3	eP	Z	09	26	13						
		iS	NE			27						
	4	eS	ZNE	11	05.6							
		eSS	ZNE		09.4							
	5	iP	Z	03	34	22.3						
		iS	NE			40.2						
	5	eL	Z	03	51.2							
	5	eP	Z	06	27	46						
		iS	NE		28	41						
		eT	ZNE		31	18						
	5	eS	ZNE	19	28	40						
		eSS	ZNE		32.8							
		eSSS	NE		37.0							
		eL	ZNE		40.2							
	5	iP	ZNE	20	47	50.7	13.5	1.2				
		iS	NE		48	21						
	5	eS	ZNE	23	56	00						
		eSSS	ZNE	00	03.1							
		eL	ZNE		06.4							
	6	eP	Z	02	25	54						
		eS	ZNE		35	20						
		e	Z		39.2							
		eSS	NE		41.0							
		eL	Z		47.0							
	6	eP	Z	07	33	56						
		iPcP	Z		34	16						
		ePP	ZE		37	10						
		iS	ZNE		43	48						
		eSS	ZNE		48	30						
		eSSS	ZNE		52	10						
		eLq	ZNE		54	42						
		eLr	ZNE		57	00						
	6	iP	Z	09	48	40.2						
		iS	NE		49	30						
	6	iP	Z	14	29	30.8	2.0	2.0				
	6	iP	Z	15	27	55						
		iS	NE		28	17						
	6	eP	Z	19	54	40	0.7	2.0				
		eS	N		57	19						
		eL	ZE		58.0							
	6	eP	Z	23	10	56						
		eS	NE		11	20						
		eT	ZNE		13	23						
	7	eP	Z	03	01	15						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUL	iS	NE	37						
7	iP	Z	07 41 48	1.8	1.3				
	eS	NE	43 54						
7	iP	ZN	09 08 05						
	iS	NE	25						
7	iP	Z	14 19 01.4						
	iS	NE	20 40						
7	eP	Z	14 52 07						
	eS	NE	33						
	eT	ZNE	54 29						
7	eL	ZNE	16 38.5						
7	iP	Z	19 50 10						
	iS	NE	43						
7	iP	Z	21 33 31						
	eS	NE	35 02						
8	eP	Z	01 35 32						
	eS	ZNE	42						
8	eS	NE	08 04.5						
	eSS	N	08.2						
	eSSS	N	11.6						
	eL	ZNE	15.0						
8	eP	Z	10 07 48						
	iS	NE	08 25						
8	eS	ZNE	12 01.1						
	eSS	ZNE	03.2						
8	iP	ZE	12 05 18	4.0	2.0				
	iS	ZNE	13 06						
	e	N	14 12						
	iSS	N	16 16						
	eL	ZNE	19.2						
8	iP	Z	13 24 16.5						
	iS	NE	42						
8	iP	Z	15 26 03						
	eS	NE	27 30						
9	eP	Z	03 00 34						
	iS	NE	59						
9	eL	ZNE	06 21.8						
9	iP	Z	08 45 20.2						
	iS	NE	41						
9	iP	Z	11 24 21.3	1.4	1.8				
	i	ZNE	29						
	eS	ZNE	26 00						
	eT	ZNE	33 18						
9	eP	Z	12 12 59						
9	iP	ZNE	16 44 16						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUL	iS	ZNE	47 44						
9	iP	Z	17 45 36						
	iS	NE	53						
9	eP	Z	21 52 26						
9	eS	NE	23 30 28						
10	eP	Z	02 42 40						
	iS	NE	43 28						
10	eP	Z	04 46 20						
	eS	NE	37						
10	eP	Z	13 08 18						
	eS	NE	09 12						
	eT	ZNE	13 07						
10	eP	Z	21 18 03						
	eS	NE	19 25						
	eT	ZNE	25 47						
10	eP	Z	23 43 20						
	e(S)	NE	44 21						
11	eP	Z	01 43 47						
	eL	N	53.8						
11	iP	Z	05 56 27			2.3	1.2		
	iS	NE	58 16						
11	iP	Z	07 48 54.8						
	iS	NE	49 12						
11	eL	ZN	10 19.0						
11	iP	Z	10 55 52.2						
	iS	NE	56 11						
11	eP	Z	14 22 15						
	iS	NE	23 05.3						
11	eP	Z	17 08 24						
	eS	NE	58						
	eT	ZNE	11 28						
11	iP	Z	18 40 14.2						
	iS	NE	32						
11	eS	ZNE	20 48 40						
	eSS	ZNE	52 14						
	eL	ZNE	59 52						
11	iP	Z	23 48 55						
	iS	NE	49 15						
12	iP	Z	01 56 36			1.2	2.7		
	eS	ZNE	02 05 56						
	eSS	ZN	10 20						
	eSSS	ZN	13 44						
	eL	ZN	16.6						
12	eP	Z	06 18 18						
	eS	NE	49						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUL 12	iP	Z	09	51	50						
	eS	NE		52	10						
13	eP	Z	01	16	47	1.2	2.0				
	eS	NE		18	32						
13	iP	Z	10	06	42	0.9	1.5				
	eS	NE		09	04						
13	eS	ZNE	10	16.5							
13	iP	ZNE	14	57	41.1	0.9	1.9	0.9	2.0	1.3	2.0
13	eP	Z	18	00	04						
	iS	NE			32						
14	eP	Z	02	19	38						
	eS	NE			55						
14	iP	ZNE	18	04	30	3.7	1.0	2.0	1.5		
	iS	NE			57.5						
14	eL	ZNE	23	21.5							
15	eP	Z	06	56	45						
	eS	NE		57	20						
	eT	ZNE	07	00	10						
15	eP	Z	08	29	39						
16	eP	Z	11	29	09						
17	iPKP	Z	02	54	06.1	3.0	2.0				
	e	Z		57.5							
	e	ZN	03	04.5							
	eL	ZN		11.3							
17	iP	ZN	04	57	50	1.7	1.5	1.0	1.6		
	eS	NE	05	00	07						
17	iP	Z	14	56	32	1.4	1.0				
	eS	NE		58	08						
17	eP	Z	19	11	59	2.0	1.5				
	eS	NE		13	54						
17	eP	Z	22	22	26						
	eS	NE			57						
17	eL	N	23	22.6							
	eL	ZN		25.3							
18	eP	Z	00	11	20						
	iS	NE			40						
18	ePKP	Z	04	00	38	1.0	2.0				
18	iP	Z	04	50	59						
	iS	NE		51	19						
18	iP	Z	17	33	11	2.0	1.9				
18	iP	Z	19	20	14.6						
	eS	NE			34						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUL 18	iP	Z	21	03	40	2.0	2.0				
	eS	NE		05	14						
18	iP	ZNE	23	03	42						
	iS	NE		04	24						
19	iP	Z	02	27	44						
	iS	NE		28	01						
19	iP	Z	06	54	45.3	2.0	2.0				
19	iP	Z	07	34	29.5						
	eS	NE		35	02						
19	iP	ZNE	13	40	36.4						
	iS	ZNE			57						
19	iP	Z	14	02	24.8	3.5	0.8				
	iS	NE			43						
19	iP	Z	16	46	12.5	2.5	1.0				
	iS	NE			50						
20	eP	Z	10	27	43	1.0	1.7				
	eS	NE		31	52						
	eL	ZNE		34.0							
20	eS	N	19	10.6							
	eSSS	N		18.2							
	eL	ZE		21.1							
20	eP	Z	22	47	46	0.8	2.1				
	eS	ZNE		51	58						
	eSS	ZN		53.5							
	eL	ZN	23	03.5							
	eL	E		04.5							
20	iP	Z	23	26	24						
	iS	NE			48						
21	eS	NE	01	30	18						
	eSS	N		37.0							
	eL	ZNE		39.7							
21	eP	Z	02	51	43						
	eS	ZNE		55	04						
21	iP	Z	03	51	50						
	i	ZNE			52						
	iS	NE		54	07						
	eT	ZNE	04	02	08						
21	iP	Z	09	21	01						
	iS	NE			16						
21	eS	E	13	34.2							
	eSS	E		37.4							
	eSSS	N		41.5							
	eL	Z		45.4							
21	eL	ZNE	21	17.1							
22	eL	ZNE	07	47.4							
22	eP	Z	10	17	10						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUL	eS	NE			36						
	eT	ZNE		19	30						
22	eP	Z	10	42	40						
	iS	NE		43	12						
22	eP	Z	12	13	03						
	iS	NE			21						
22	iP	Z	12	21	45.5						
	eS	NE		23	18						
	eL	ZNE		24	12						
22	iP	Z	14	39	31.3						
	iS	NE			51						
23	eP	Z	05	08	45						
	eS	NE		09	18						
23	iP	Z	11	59	37						
	iS	NE			58						
24	eP	Z	07	01	50	0.5	1.9				
	eS	ZNE		10	46						
	eSS	ZNE		14	00						
	eSSS	ZNE		18	12						
	eL	ZNE		21	10						
24	iP	Z	08	23	38	0.5	1.5				
	eS	ZNE		32	42						
	eSS	ZNE		36	14						
	eSSS	ZNE		40	00						
	eL	ZNE		43	00						
24	iP	Z	11	04	08.5	1.0	2.0				
24	eS	ZN	12	56	00						
	eL	ZN	13	06	06.5						
24	eS	ZN	13	45	16						
	eSSS	E			52.7						
	eL	ZN			55.6						
	eL	ZNE	14	02	02.5						
24	iP	Z	13	54	23.4	1.5	2.0				
24	iP	Z	16	39	33.6	2.5	2.0				
	e	NE		40	42						
	e(L)	Z	17	05	05.8						
24	eS	ZNE	17	22	48						
	eSS	ZNE		26	00						
	eSSS	ZNE		30	00						
	eL	ZNE		33	02						
24	eP	Z	21	01	55						
	eS	NE		03	47						
25	iP	Z	03	54	43.7	1.8	1.9				
	eS	NE		57	21						
25	eP	Z	04	46	22.6						
	eS	NE		49	03						
25	eP	Z	05	24	05						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUL	iS	ZNE			23						
25	iP	Z	07	08	08						
	eS	NE			27						
25	iP	Z	10	12	36.3						
	eS	NE		13	24						
25	iP	Z	11	58	15						
	iS	NE			29						
25	eiP	ZNE	12	22	07						
	iS	NE		23	20						
25	eP	Z	14	49	01						
	iS	NE			41						
	eT	ZNE		52	30						
25	eP	Z	18	18	57						
	iS	NE		19	38						
	eT	ZNE		22	37						
25	ePcP	Z	19	44	18						
	ePPP	Z		48	.3						
	eS	ZNE		54	50						
	eS	ZNE		56	44						
	eSS	ZNE	20	01	44						
	eL	ZN		08	.2						
	eL	ZNE		13	46						
26	eP	Z	06	31	14	1.0	2.0				
	eS	NE		33	17						
26	eP	Z	08	13	31						
	iS	NE			51						
26	iP	Z	08	29	27.4						
	iS	ZNE			45						
26	e	Z	08	49	.4						
	eL	ZN			50.8						
27	eP	Z	00	41	13						
	eS	ZNE			44						
	eT	ZNE		44	25						
27	eP	Z	02	28	46	0.7	1.0				
	eS	ZNE		29	17						
	eT	ZNE		32	04						
27	iP	Z	21	02	26.7	1.2	0.9				
	iS	NE		03	37						
27	eS	Z	23	20	.6						
	eL	Z		31	.1						
28	eP	Z	08	43	12						
	eS	NE			51						
	eT	ZNE		46	47						
28	eP	Z	10	24	48						
	eS	NE		25	19						
	eT	ZNE		28	02						
28	eP	ZN	10	46	31						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUL	iS	NE			55						
28	eP	Z	18	49	28						
	ePP	Z		51	34						
	eS	ZNE		57	10						
	eSS	ZNE	19	00	20						
	eSSS	ZNE		02	40						
	eL	ZNE		05.5							
28	iP	Z	21	07	37						
	e	ZNE			50						
	eS	ZNE		08	02						
	eT	ZNE		09	56						
28	eS	Z	22	03.4							
	eSS	ZN		09.2							
	eSSS	ZN		13.4							
	eL	ZN		19.0							
29	eP	Z	18	17	13						
	iS	NE			31.4						
29	e(L)	Z	22	08.3							
30	iP	Z	00	39	25.4						
	iS	NE			45						
30	iP	ZNE	01	24	04.3	6.7	2.0	1.2	2.0	1.5	2.0
	eS	NE		25	37						
30	eiP	Z	04	03	05						
	iS	ZNE			32						
	eT	ZNE		05	23						
30	eS	ZE	05	39	30						
	eL	N		52.3							
	eL	ZNE		56.3							
30	iP	Z	08	38	48						
	iS	NE		39	13						
30	iP	Z	14	21	17.2						
	eS	ZNE			32						
30	iP	Z	15	44	04						
	iS	ZNE			19						
31	eP	ZNE	05	59	40	2.0	1.9				
	ePP	ZNE	06	01	25						
	eS	ZNE		05	24						
	eSS	ZNE		08	20						
	eL	ZNE		10	24						
31	iP	Z	06	29	31.2	1.0	0.8				
	iS	NE		31	50						
31	iP	Z	06	34	29						
	iS	NE			48						
	eT	ZNE		36	20						
AUG 1	eP	Z	02	29	33						
	iS	NE		31	17						
1	eP	Z	03	26	15						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
AUG 1	iP	Z	05	41	39						
	iS	NE			55						
1	iP	Z	06	07	31	1.0	1.9				
1	iP	Z	12	36	38						
	iS	NE			58						
1	eP	Z	16	49	28						
	eS	NE		50	07						
	eT	ZNE		53	11						
2	eP	Z	06	39	10						
	iS	ZNE			59						
2	eS	ZN	08	57.4							
	eL	E	09	06.1							
	eL	ZN		08.5							
2	iP	Z	12	21	26						
	iS	NE			51						
3	iP	ZNE	01	49	07.2	6.5	1.1	3.5	1.5	1.5	1.7
	iS	NE			30						
3	eL	ZE	02	40.0							
3	iP	Z	04	19	17.8	1.5	1.4				
	iS	NE			56						
3	eS	ZE	08	06.7							
3	eP	ZNE	10	17	15						
4	iP	ZNE	12	39	07.3						
	iS	ZNE			42						
4	eP	Z	16	29	44						
	iS	NE		30	05						
4	iP	Z	17	35	24	1.0	2.5				
	eS	NE		44	24						
	eL	ZNE		55.2							
5	eP	Z	01	49	07	0.7	2.0				
	eS	ZNE		50	02						
5	iP	Z	09	34	34	2.0	1.1				
	e	NE		35	15						
5	iP	Z	09	49	57	1.7	1.8				
5	iP	ZNE	11	10	12.5	2.5	2.3				
	eS	ZNE		13	27						
5	ePP	Z	11	17	37						
5	iP	Z	22	35	52.6	0.6	2.0				
	ePP	Z		39	12						
	e	Z		42	28						
	eS	ZNE		46	10						
	eSS	ZNE		51	30						
	eL	NE		58	16						
	eL	ZNE	23	02.2							

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
AUG	6	eP	Z	10	43	31						
		iS	NE			50						
	6	eP	Z	13	50	16						
	6	iP	Z	17	06	01						
		iS	NE		07	58.5						
	6	eS	NE	18	45	30						
		eSSS	E			53.4						
		eL	ZN			57.2						
	6	eSS	ZNE	23	52	.7						
	7	eP	Z	02	16	45						
	7	eP	Z	03	23	17						
		iS	NE			42						
	7	iP	Z	17	32	05	3.0	1.3				
		iS	NE			23						
	7	iP	Z	22	30	40.7	2.0	0.8				
		iS	NE		31	02						
	8	eP	Z	09	23	21						
		eS	NE			46						
		eT	ZNE		25	43						
	8	iP	Z	09	29	56.3	1.2	1.1				
		iS	NE		30	42.7						
	8	eP	Z	10	29	02						
		eS	NE			56						
	8	eP	Z	15	10	09						
		eL	ZNE		28	.5						
	8	eP	Z	15	57	53						
		eS	NE	16	08	20						
		eL	ZNE		24	.4						
	8	eP	Z	18	42	39						
		iS	NE			57						
		e	ZNE		45	49						
	8	iP	ZE	21	00	54.6	8.5	1.0				
		iS	ZNE		01	45						
	9	iP	Z	01	50	07	2.0	2.0				
		eS	NE		51	38						
	9	eP	Z	06	32	19						
		eS	ZNE			59						
		eT	ZNE		35	43						
	9	eiP	Z	15	40	39						
		iS	NE			55						
	9	eP	Z	22	13	52						
		eS	NE		14	31						
		eT	ZNE		17	17						
	10	eL	Z	02	01	.2						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
AUG	10	eSS	N	21	53	.7						
		eL	ZE		56	.2						
	11	iP	Z	05	51	34	3.0	1.0				
		iS	NE		52	44.5						
	11	iP	Z	12	17	45						
		iS	NE		18	04						
	11	eP	Z	13	55	07						
		eS	NE			42						
		eT	ZNE		58	43						
	12	eP	Z	07	04	49						
		eS	NE		05	15						
		eT	ZNE		08	08						
	12	e(P)	Z	20	39	56						
		iS	NE		40	48						
	13	eiP	Z	00	37	29	3.5	2.0				
		i	ZN		41	31.2						
		iS	ZNE		42	30						
		iPcS	Z		43	07						
		isS	Z		44	40						
		iSS	NE		45	13						
	13	iP	Z	10	11	25	2.5	1.0				
		iS	NE		12	13						
	13	iP	Z	10	50	31	1.5	0.8				
		iS	NE		52	02						
	14	eSSS	ZNE	21	57	.3						
	15	iP	Z	15	47	36						
		iS	NE			44						
	15	iP	Z	16	05	00.2						
		iS	NE			16						
	15	eP	Z	17	58	46						
		eS	NE		59	26						
	16	iP	ZNE	19	42	03.3	3.5	2.0				
		iS	ZNE			58						
	17	iP	ZNE	11	46	58	5.5	2.0				
		iS	NE		48	31						
	17	iP	Z	13	47	04						
		iS	NE			40						
	17	e(S)	NE	15	20	.0						
	17	eP	Z	22	05	18						
		eS	NE		07	08						
	18	eP	Z	04	58	14	1.0	2.8				
		ePP	Z	05	01	54						
		eS	E		08	.5						
		eS	ZNE		10	46						
		eSS	ZNE		14	36						
		eLq	ZNE		22	.5						
		eLr	ZNE		27	.3						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
AUG 18	eP	Z	09	09	50						
	eS	NE		10	26						
18	iP	Z	21	53	00						
	eS	NE			57						
19	iP	Z	06	34	36						
	eS	NE			51						
19	iP	Z	07	56	05	0.7	1.2				
	eS	NE		57	44						
19	iP	Z	09	02	15.5						
	eS	NE		03	00						
19	iP	Z	10	12	39.8						
	eS	NE		13	00						
19	eP	Z	15	21	39						
	iS	NE		22	08						
19	iP	Z	19	27	43.6						
	iS	NE		28	37						
20	eL	Z	13	34	.8						
20	iP	Z	13	50	16						
	iS	NE			40						
21	eL	ZE	03	35	.6						
22	iP	Z	02	14	09	1.0	1.0				
22	iP	Z	06	38	28.7						
	iS	NE		39	09						
22	iP	ZNE	08	36	05.8	14.7	1.5				
	iS	NE			41						
22	eP	Z	20	15	23	1.0	1.8				
23	eL	Z	00	35	.2						
23	iP	Z	15	31	24	1.2	1.9				
	eS	ZNE		37	18						
	eSSS	ZNE		40	22						
	eL	ZE		42	.5						
23	iP	Z	22	09	42.3						
	iS	NE		10	07						
24	eP	Z	02	03	16						
	eS	NE		04	27						
24	eP	Z	10	52	52						
	eS	NE		53	08						
24	eS	N	22	19	.0						
	eL	ZN		31	.9						
25	iP	ZNE	05	42	51						
	iS	NE		43	24						
25	iP	Z	05	53	40						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
AUG 25	eP	Z	11	05	04						
	eS	NE		06	27						
25	eP	Z	14	00	55						
	ePP	ZN		04	48						
	eSKS	NE		11	18						
	eS	E		12	20						
	eS	N		13	40						
	eSS	N		18	.0						
	e	ZE		19	.1						
	eL	NE		25	.0						
	eL	ZN		32	.3						
25	iP	Z	17	41	37						
	iS	NE		42	21						
25	eP	Z	21	05	20						
	e	NE			33						
26	iP	Z	19	33	48.4	1.0	1.0				
	eS	NE		35	30						
26	iP	Z	20	08	43						
	iS	NE		09	03						
27	iP	Z	05	29	30.9						
	iS	NE			47						
27	iP	Z	07	54	46.2	2.0	1.0				
	eS	NE		55	24						
27	eP	Z	21	56	49						
	e(S)	NE		59	13						
27	eP	Z	23	50	23						
	eS	ZNE		51	54						
28	eP	Z	04	24	29						
	eS	NE		26	15						
28	iP	ZN	04	37	30.3	3.9	1.5	3.5	1.9		
	iS	NE		39	05.8						
28	eP	Z	08	26	24						
	eS	NE		27	12						
28	iP	Z	11	24	24.4	1.0	1.0				
28	eP	Z	17	09	11						
	eS	NE			56						
28	iP	Z	17	24	31.4						
	iS	NE			54.3						
29	eP	Z	00	34	44						
	eS	NE		35	22						
29	eP	Z	11	21	49						
	eS	NE		22	37						
29	eP	Z	17	28	36						
	eS	NE		29	48						
	eL	ZNE		30	.4						
	eT	ZNE		35	45						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
AUG 29	iP	ZNE	21 37 08						
	iS	NE	22						
30	iP	Z	08 12 44	3.4	1.2				
	iS	ZNE	13 30						
30	iP	Z	08 55 35.2	1.0	2.0				
30	iP	Z	10 28 41						
	iS	NE	29 00						
30	iP	Z	11 46 13						
	iS	NE	32						
30	eP	Z	13 11 29						
	eS	NE	13 20						
30	eL	ZNE	20 44.2						
30	iP	Z	21 46 35						
	iS	ZNE	47 48						
31	eSSS	E	02 41.0						
	eL	ZE	42.0						
31	iP	Z	08 54 41						
	iS	NE	59						
SEP 1	iP	Z	11 01 09.2						
	iS	NE	33						
1	iP	ZNE	15 47 09.5						
	iS	NE	26						
1	eP	Z	18 35 43						
	eS	NE	36 35						
2	iP	Z	21 36 49.5	1.0	1.9				
3	eP	Z	06 06 25						
	iS	NE	45						
3	eP	Z	07 18 52						
	iS	NE	19 20						
3	e(S)	ZNE	10 23.7						
3	iP	Z	10 41 47						
	iS	NE	42 24						
3	iP	Z	12 59 13.4						
	eS	NE	13 00 41						
3	eP	Z	16 44 00						
	eS	NE	45 06						
3	iP	ZNE	16 59 26.9						
	iS	ZNE	44						
3	iP	Z	20 51 03.9	0.9	1.8				
	eS	NE	52 54						
4	iP	Z	10 43 57.8						
	eS	ZNE	51 52						
	eSS	ZN	55 48						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
SEP	eSSS	N	58.2						
	eL	ZE	11 01.3						
4	eP	Z	14 53 26						
	eS	ZNE	55 49						
5	iP	Z	00 48 14						
	iS	NE	36						
5	iP	ZN	02 21 19						
	i	ZN	23						
	eS	ZNE	24 43						
5	iP	ZE	03 00 33	2.7	4.0				
	ipP	Z	50						
	eS	ZNE	06 18						
	eSS	ZNE	08 14						
	eL	ZE	09.6						
5	iP	Z	13 06 44.8	1.0	2.1				
	eL	ZNE	36.0						
6	iP	Z	00 02 37						
	iS	NE	52						
6	iP	Z	02 18 33.4						
	eS	NE	20 53						
6	eP	Z	02 30 26						
	iS	NE	31 03						
	eT	ZNE	33 32						
6	iP	Z	03 32 18	1.2	2.0				
	eS	NE	35 52						
6	iP	Z	09 23 34.7	0.5	1.0				
	e	NE	25 20						
6	iP	Z	18 50 28	0.5	2.1				
	eS	ZNE	57 54						
	eL	NE	19 03.2						
6	iP	Z	21 52 54.3						
	iS	NE	53 13						
7	eP	Z	02 35 52						
	eS	NE	36 48						
8	eP	Z	05 57 12						
	eS	NE	58 46						
8	iP	Z	08 05 21	1.0	2.2				
8	eP	Z	11 16 32						
	iS	NE	17 12						
	eT	ZNE	20 10						
8	eP	Z	13 44 20						
8	eP	Z	14 11 55	0.4	1.9				
	eS	NE	14 16						
8	iP	Z	17 07 29.7	1.7	2.0				
	iS	ZNE	09 08						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
SEP 8	iP	Z	22	44	16.5						
	iS	NE			36						
9	iP	Z	04	55	47						
	iS	NE		56	17						
9	iP	Z	16	15	28	1.0	2.0				
10	eP	Z	07	06	07	0.7	1.1				
	eS	NE		07	26						
10	iP	Z	17	39	27.7						
	iS	NE			54						
10	iP	Z	21	25	38						
	eS	NE		26	12						
	eT	ZNE		29	06						
11	eP	Z	11	07	43	1.4	1.1				
	eS	NE		10	05						
11	iP	Z	15	09	36	1.2	1.9				
11	iP	Z	15	58	09.5	7.7	1.0				
	iS	NE			44						
12	eP	Z	02	34	40						
	eS	N		35	36						
12	iP	Z	12	51	21.4						
	ipP	Z			47.7						
	eS	NE		57	48						
	eScS	ZNE	13	01	18						
	eL	ZNE		04.6							
12	iP	ZN	15	21	27	1.9	1.8	1.5	1.8		
	eS	NE		23	04						
12	iP	ZN	15	47	40						
	iS	NE		48	00						
12	iP	ZNE	22	14	37	2.2	2.0				
	iS	ZNE		20	40						
	iSS	NE		23	52						
	iL	Z		24	58						
13	iP	Z	08	47	17						
	eS	NE			44						
	eT	ZNE		49	35						
13	iP	Z	11	05	47	3.5	2.0				
	iS	NE		07	14						
13	iP	Z	12	43	36.2	1.5	1.1				
	eS	NE		44	57						
13	iP	Z	15	52	56	2.5	1.5				
	iS	NE		53	24						
14	iP	Z	11	44	12.5	2.5	1.0				
	iS	NE			32						
14	eL	Z	14	11.2							
14	iP	Z	22	22	32						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
SEP	iS	NE			52						
15	iP	Z	01	01	15.4	2.0	1.8				
	eS	ZNE		02	06						
	eT	ZNE		05	05						
15	eS	ZNE	01	32	24						
15	e	Z	11	35	12	1.0	2.1				
15	eP	Z	11	46	20						
	eS	NE		48	00						
15	iP	ZN	12	44	44.8						
	iS	NE		45	14						
15	iP	Z	13	13	26.7						
	iS	NE			53						
15	eP	Z	15	43	06	0.4	0.2				
	eS	ZE		53	38						
	iS	N		54	30						
	e	ZE		55	50						
	eL	N		58.8							
	eL	NE	16	01.0							
15	iP	Z	23	48	54.7						
	iS	NE		49	24						
16	eP	Z	02	02	10						
	ePP	Z		05	30						
	eS	ZNE		12	08						
	e	Z		15.3							
	e	E		16.6							
	eSS	N		17.4							
	eL	ZN		25.4							
16	eL	ZNE	05	40.8							
16	eP	Z	08	04	20						
	eS	NE			59						
16	eP	Z	11	51	32						
	eS	NE			59						
	eT	ZNE		53	51						
16	eP	Z	13	41	51						
	eS	NE		42	09						
	eT	ZNE		44	12						
16	eP	Z	13	45	56						
	eS	NE		47	46						
16	eP	Z	16	20	10						
	eS	NE			35						
	eT	ZNE		22	20						
16	iP	Z	20	48	37.2	7.6	1.8				
	eS	ZNE		49	38						
17	eP	Z	05	05	29						
	eS	ZNE			44						
17	eP	Z	07	02	40	1.0	1.1				
	eS	NE		04	54						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
SEP	eT	ZNE	15 15						
17	iP	ZE	12 01 06.2	3.0	2.0			2.5	2.0
17	eP	Z	12 54 28						
	eS	NE	56 09						
18	eL	ZNE	14 17.2						
18	iP	Z	20 00 42						
	eS	NE	01 01						
19	e	NE	05 30.8						
	eS	NE	42.5						
	eL	ZE	45.3						
19	iP	Z	10 08 48.6	1.0	1.8				
19	iP	Z	15 57 21						
	iS	NE	38 09						
19	eP	Z	21 36 28	0.4	0.8				
	eS	NE	38 09						
20	iP	Z	00 26 33						
	iS	NE	53						
20	eSSS	ZE	04 51 22						
	eL	E	57.2						
	eL	Z	58.2						
20	eP	Z	08 50 16						
	iS	NE	51 11						
20	iP	Z	14 46 01						
21	eP	Z	03 43 38						
	iS	NE	51						
21	iP	ZNE	04 25 44	13.5	1.5	5.0	1.8	4.0	1.9
	iS	ZNE	27 39						
	e	ZNE	32 33						
21	eP	Z	05 10 53						
	iS	NE	11 12						
21	iP	Z	05 47 34	1.5	2.0				
21	iP	Z	11 27 10.6						
	iS	NE	36						
21	eP	Z	13 23 05						
	iS	NE	27						
21	iP	Z	16 59 42	0.4	1.3				
	eS	NE	17 01 21						
21	iP	Z	18 14 38	1.0	2.0				
	eS	NE	17 39						
21	eP	Z	21 24 38						
	iS	NE	58						
21	iP	Z	23 18 39	1.5	0.4				
	iS	NE	20 14						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
SEP 22	iP	ZNE	07 28 53						
	iS	N	29 13						
23	eP	Z	02 50 26						
	eS	ZNE	51 16						
23	eP	Z	03 03 06						
	iS	NE	40						
	eT	ZNE	06 15						
23	eP	Z	04 51 38						
	eS	NE	52 12						
	eT	ZNE	54 58						
23	ePcP	Z	05 11 08						
	eS	ZNE	19 40						
	eSS	Z	23 54						
	eL	E	27.2						
	eL	ZN	30.2						
23	eP	Z	10 27 22						
	eS	NE	53						
	eT	ZNE	30 38						
23	iP	Z	10 50 16.2						
	iS	NE	52						
	e	ZNE	52 31						
	e	ZNE	53 43						
	e	ZNE	55 22						
24	iP	ZN	02 45 53						
	iS	NE	46 00						
24	eP	Z	05 04 37						
	eS	NE	05 04						
	eT	ZNE	07 18						
24	eP	Z	05 29 42						
	eS	NE	30 09						
	eT	ZNE	32 19						
24	eP	Z	08 09 24						
	eS	NE	10 10						
24	eL	Z	09 32.5						
24	eP	Z	18 13 36						
	eS	NE	14 18						
	eT	ZNE	17 40						
24	eP	Z	20 34 00						
	eS	ZNE	18						
24	eP	Z	20 57 10						
	eS	ZNE	55						
	eT	ZNE	59 30						
24	e(P)	Z	21 01 01						
	e(S)	ZNE	15						
24	eP	Z	22 31 02						
	iS	NE	24						
25	iP	Z	13 44 08						
	eS	NE	31						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
SEP 25	eS	ZNE	16 01 50						
	eL	ZN	11.2						
25	eP	Z	17 10 02						
	iS	NE	23						
25	iP	Z	22 45 43						
	eS	NE	46 02						
25	iP	ZNE	23 31 35.3	17.5	2.0	10.4	2.0	7.0	1.8
	iS	NE	34 41						
	ePcS	Z	38 44						
26	eP	Z	02 59 00						
	eS	ZNE	25						
26	eP	Z	03 39 26						
	eS	NE	40 05						
	eT	ZNE	43 00						
26	eP	Z	16 51 21						
	eS	NE	52 53						
26	eP	Z	17 29 17						
	eS	NE	30 52						
26	eS	Z	23 07.7						
	eSS	Z	10.4						
	eL	Z	12.0						
27	eP	Z	00 42 11						
	eS	NE	38						
	eT	ZNE	44 46						
27	iP	ZNE	06 37 41	1.9	1.5	1.4	1.6	2.0	1.4
	eS	ZNE	38 37						
27	eP	Z	13 27 53						
	eS	ZNE	30 25						
27	eS	ZNE	16 11 34						
	eSSS	E	19.7						
	eL	ZN	23.8						
27	eP	Z	16 19 23						
	iS	NE	50						
27	iP	Z	17 20 08.5						
	eS	NE	21 03						
28	eP	Z	12 56 22						
	eS	NE	58 18						
28	iP	Z	16 27 50.7						
	eS	NE	28 24						
28	eP	Z	18 13 54						
	eS	NE	14 35						
	eT	ZNE	17 14						
28	eP	Z	19 39 39						
	eS	NE	40 05						
29	iP	Z	05 32 20.5	1.0	1.9				
	eS	ZNE	33 17						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
29	iP	Z	07 08 54.2	3.7	0.9				
	eS	NE	09 13						
29	eP	Z	08 31 25						
	eS	NE	32 05						
	eT	ZNE	35 05						
29	eP	Z	14 01 51						
	eS	ZNE	03 02						
	eT	ZNE	08 27						
29	eP	Z	15 38 28						
	eS	ZNE	39 03						
	eT	ZNE	41 54						
29	eP	Z	16 17 57						
	eS	NE	18 27						
	eT	ZNE	20 36						
29	iP	Z	17 58 44						
	iS	NE	59 02						
29	eP	ZN	22 50 25						
	eS	NE	52 28						
30	eP	Z	03 49 35						
	eS	NE	51 30						
30	eP	Z	08 50 58						
	iS	NE	51 52						
30	iP	Z	11 45 35						
	eS	NE	47 10						
30	iP	Z	12 42 13.3	1.2	1.0				
	eS	NE	43 42						
30	iP	Z	17 41 30.6						
1	eP	Z	01 55 06						
	eS	NE	52						
1	iP	Z	06 37 07.2	6.0	1.0				
	eS	NE	44						
1	eP	Z	12 35 38						
	eS	NE	36 05						
	eT	ZNE	38 10						
1	eP	Z	13 34 08						
	eS	NE	36						
	eT	ZNE	36 43						
1	iP	Z	16 11 47						
	iS	NE	12 29						
1	eP	Z	16 13 35						
	eS	NE	14 02						
	eT	ZNE	16 06						
2	eiP	ZNE	04 34 02	2.5	2.0	1.7	1.7	2.0	1.9
	eS	NE	36 08						
2	e	NE	09 57.3						
	eS	NE	58.2						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
OCT	eL	ZE	10	00	0.0						
2	iP	Z	13	06	03.5	2.0	2.5				
	iS	N		10	30						
	iL	ZNE		11	28						
3	iP	Z	01	47	28.3						
	eS	ZNE			50						
3	iP	Z	01	57	14	1.5	1.9				
	iS	NE		58	58						
3	eP	Z	09	36	02						
3	eP	Z	16	55	33						
	eS	NE		57	51						
3	iP	Z	17	04	40.2	5.5	2.0				
	eS	NE		06	14						
3	eP	Z	21	15	50						
	eS	NE		16	20						
	eT	ZNE		18	37						
3	eS	N	22	09	7						
	eL	ZE		12	0						
3	iP	Z	22	42	57.6	2.0	1.0				
	iS	NE		44	14						
4	e	ZNE	00	57	2						
	e(L)	ZNE	01	03	2						
4	iP	Z	05	17	01						
	iS	NE			23						
4	iP	Z	05	35	24						
	eS	NE		36	29						
4	eiP	Z	12	29	30						
	eS	NE		31	00						
5	eL	Z	04	06	6						
5	iP	Z	06	25	45.3	3.2	1.2				
	eS	NE		27	03						
5	eP	Z	08	26	27						
	eS	NE			58						
5	iP	Z	08	31	03	3.9	2.0				
	e	ZNE			28						
	iS	ZNE			50						
5	iP	Z	12	25	01.2						
	iS	NE			38						
5	eP	Z	13	11	17						
	eS	NE			49						
5	eP	Z	14	01	06						
	eS	ZNE		02	37						
	eL	ZNE		03	2						
	eT	ZNE		09	10						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
OCT 5	eL	ZN	22	41	0						
6	eL	ZNE	06	45	8						
6	eS	ZNE	07	37	32						
	eSS	ZNE		41	6						
	eSSS	NE		45	14						
	eL	Z		46	00						
	eL	ZNE		48	0						
6	iPKP	Z	14	49	45	0.8	2.1				
	iPKP	Z			49	1.0	2.0				
6	iPKP	Z	14	51	06						
	ePP	Z		54	40						
	ePPP	Z		57	10						
	eSKSP	ZNE	15	05	00						
	e	Z		07	30						
	eSKKS	NE		08	30						
	e	Z		12	06						
	eSS	ZE		14	00						
	eSSP	N		15	00						
	e	Z		19	00						
	eSSS	NE			38						
	e	N		25	40						
	e	E		28	00						
	e	NE		30	3						
	e	E		32	3						
	e	N		34	10						
	e	ZN		38	50						
	e	ZNE		40	40						
	e	E		45	14						
	e	ZE		48	00						
	e	ZNE		51	2						
6	eP	Z	19	16	42						
	eS	N		20	12						
	eL	Z		21	3						
6	iP	Z	23	41	49.4	1.5	2.0				
7	eP	Z	01	26	50						
	eS	ZNE		28	24						
7	eP	Z	03	58	43						
7	eP	Z	04	04	10						
	eS	ZNE			23						
7	iP	Z	12	10	37						
	eS	NE			56						
7	eP	Z	15	14	28						
	eS	NE			45						
7	iP	Z	15	36	05						
	iS	NE			24						
7	eP	Z	21	22	33						
	eS	NE		23	50						
	eT	ZNE		29	49						
8	eP	Z	03	16	59						
	iS	NE		17	53						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
OCT	8	iP	Z	05	45	28						
		iS	NE			52						
	8	iP	Z	12	48	29						
		eS	NE		49	21						
	8	eP	Z	19	56	40						
		eS	NE		57	58						
		eL	ZN		58.3							
	8	eP	Z	21	10	43						
		e	ZNE		11.3							
		e(S)	ZNE		14	03						
	9	eP	Z	08	45	45						
		eS	NE		47	15						
	9	iP	Z	08	52	36						
		iS	NE			55						
	9	iP	Z	12	52	45.2						
	9	iP	ZNE	21	34	42						
		iS	NE		35	08						
	10	eP	Z	07	59	39	0.9	1.9				
		eS	NE		01	57						
	10	eP	Z	08	33	53	0.6	1.9				
		eS	ZNE		36	02						
	10	eP	Z	17	17	18						
		eS	NE		20	19						
	10	eP	Z	19	16	05						
	10	eP	Z	19	50	40						
		eL	ZN	20	14.5							
	10	eL	ZN	20	41.5							
	11	eP	Z	00	17	45						
	11	eP	Z	02	09	18						
		eS	NE			53						
	11	iP	Z	05	58	36						
		i	NE			49						
		iS	ZNE		59	43						
	11	eP	Z	10	13	44	0.4	2.1				
		eSS	E		21	00						
		eL	ZNE		22.2							
	11	iP	ZE	11	15	14	1.5	2.5			1.5	2.4
		eS	ZNE		19	08						
		eL	ZE		20	40						
	11	eP	Z	11	40	04	0.5	0.8				
		e(S)	NE		42	50						
	11	eP	Z	20	56	31	0.6	1.9				
	11	iP	Z	21	25	58	1.1	2.0				
		eS	ZNE		35	00						

Date		Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
OCT		eSS	Z		39	30						
		eL	ZE		47	50						
	11	eP	Z	23	58	44						
		iS	NE		59	28						
	12	eP	Z	01	50	40						
		eS	NE		52	11						
	12	eP	Z	05	36	51						
		eS	NE		37	13						
	12	eP	Z	09	23	22	0.5	2.0				
		eS	NE		34	20						
		eL	Z		35.5							
		eL	N		36.2							
	12	eP	Z	14	42	38						
		eS	NE		43	20						
	12	eP	Z	15	53	22	1.0	2.0				
		eS	ZNE	16	01	50						
		eSS	ZE		06.2							
		eL	ZNE		08.7							
	12	eP	Z	20	21	22	1.0	2.0				
	12	eS	ZNE	22	13	38						
		eSS	Z		17	22						
		eSSS	NE		20	10						
		eL	ZE		22	00						
	13	e(P)	Z	05	49	17						
		eS	NE		50	52						
	13	eP	Z	10	46	27	0.5	2.0				
		eS	ZNE		55	20						
		eL	ZE		57.3							
	13	eP	Z	18	16	33	0.6	2.0				
	13	iP	Z	19	08	53						
		iS	NE		09	14						
	13	iP	Z	21	57	57						
		eS	NE		58	18						
	14	eS	E	03	24	16						
		eSSS	E		31.4							
		eL	ZNE		34.0							
	14	iP	Z	03	48	15	1.1	0.9				
		eS	NE		50	03						
	14	eP	Z	13	27	57						
		eS	NE		28	36						
		eT	ZNE		31	58						
	15	iP	Z	17	34	09.8						
		eS	NE			52						
	15	eP	Z	20	37	48						
		eS	ZNE		46	50						
		eL	ZNE		57.0							

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
OCT 16	eP	Z	00	13	30						
	eS	NE			54						
16	iP	Z	00	35	37						
	iS	NE			55						
16	eP	Z	05	56	14						
	eS	NE			33						
	eT	ZNE		58	42						
16	eiP	Z	06	18	06	3.0	1.0				
	eS	NE		19	57						
16	e	ZNE	07	04	.0						
16	eP	Z	07	10	38						
	eS	ZN		19	36						
	eS	E			46						
	eSSS	ZN		27	12						
	i	E			42						
	eL	ZNE		30	.0						
16	eS	ZNE	08	38	26						
	eL	ZNE		46	.2						
	eL	ZN		48	.8						
16	eS	ZNE	09	38	20						
	eSSS	E		46	18						
	eL	ZN		48	38						
17	iP	Z	01	45	04.4						
	eS	Z		50	30						
	eSS	NE		53	.0						
	eL	Z		54	.0						
17	eP	Z	03	28	35						
17	eP	Z	05	59	55	1.0	1.8				
	eS	ZNE	06	03	10						
17	eS	E	10	10	.3						
	eSSS	N		11	.0						
	eL	Z		11	.9						
17	eP	Z	10	58	32						
	eS	ZNE			58						
17	eP	Z	15	10	58						
17	iP	Z	16	04	22.9	2.0	1.8				
	eS	ZNE		06	00						
17	eP	Z	20	34	32						
	eS	NE		35	05						
18	iP	Z	12	42	02.4						
	iPcP	Z			34						
	ipP	Z		44	08						
	eS	ZNE		49	52						
	esS	E		53	.1						
	iSS	Z		54	09						
	eL	ZNE		57	.0						
	eL	ZNE		59	.7						
18	eP	Z	13	10	49						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
OCT 18	eP	Z	13	30	07						
	eS	NE			32						
18	eP	Z	13	41	05						
	eS	NE			52						
18	iP	Z	20	04	30	4.0	1.9				
	iS	NE		05	15						
18	eP	Z	21	19	02						
18	eP	Z	22	33	47	2.0	2.0				
	eS	NE		35	30						
18	eP	Z	23	32	45						
	eS	ZNE			59						
19	eP	Z	04	20	04						
	eS	NE		21	35						
19	eP	Z	06	03	51						
	eS	NE		04	10						
19	eP	Z	08	53	10	1.0	1.1				
	eS	NE		55	25						
19	iP	Z	21	16	26.6	2.0	2.0				
	i	Z			33						
	eS	NE		17	36						
20	eP	Z	00	50	40						
	eS	NE		51	43						
20	eP	Z	10	07	21						
	eS	ZNE		09	28						
21	iP	Z	02	02	05.3						
	iS	NE			33						
21	e	ZNE	07	56	38						
	eSS	Z	08	05	.6						
	e	E		11	.8						
	eL	N		12	.8						
	eL	Z		14	.3						
21	eP	Z	07	58	16						
	eS	NE			54						
21	e(P)	Z	08	01	52						
21	iP	Z	09	50	14.7						
	iS	NE			36						
21	e(P)	Z	13	54	04						
	e(S)	NE		57	08						
21	e(L)	NE	14	40	.3						
21	iP	Z	20	55	48.4	0.9	1.5				
	eS	NE		56	48						
21	iP	Z	20	57	25.5						
	iS	NE			45						
21	eS	E	23	33	34						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
OCT	eS	NE		34	48						
	eSS	NE		41	32						
	eSSS	N		45	16						
	e	NE		47	12						
	e	NE		51	10						
	eL	Z		54	.3						
	eL	ZE		57	.5						
22	eL	ZNE	10	25	.0						
22	iP	Z	18	08	07.3						
	eS	NE			25						
23	eP	Z	01	46	42						
	eS	NE		47	07						
	eT	ZNE		49	08						
23	ePKP	Z	02	14	50						
	ePP	ZE		16	06						
	eSKS	E		21	43						
	eS	ZE		25	50						
	eS	ZE		27	12						
	eSS	ZE		32	50						
	eL	E		44	.0						
	eL	E		46	26						
	eL	ZE		51	.0						
23	eP	Z	09	42	39						
	eS	ZNE		45	18						
23	eP	Z	16	06	47						
	eS	NE		07	16						
23	eL	ZNE	21	37	.3						
24	eP	Z	03	44	43						
	eS	NE		45	03						
24	eP	Z	16	53	17						
	eS	NE			48						
25	eP	Z	00	41	54						
	eS	NE		42	53						
25	iP	ZNE	10	02	15.5						
	eS	NE			34						
25	eP	Z	12	11	15						
	e	ZNE			33						
	eS	ZNE		13	08						
26	iP	Z	03	42	27.7						
	iS	NE			48						
26	eP	Z	14	33	22	1.0	2.1				
	eS	NE		42	10						
	eL	N		49	.3						
	eL	ZNE		52	.8						
26	iP	Z	18	54	29.2						
	iS	NE			52						
27	eP	Z	20	03	33						
	eS	NE		05	58						
	eL	ZNE		06	.7						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
27	eT	ZNE		16	22						
27	eSS	ZN	21	52	.2						
	eL	ZNE	22	02	.3						
28	iP	Z	05	50	09.4	1.0	2.0				
	eS	NE		51	12						
	eS	Z			36						
28	iP	Z	21	36	00.7						
	iS	NE			21						
29	eP	Z	00	08	23						
	iS	NE			43						
30	eL	ZE	02	38	.4						
30	eP	Z	16	35	34						
	eS	ZNE		36	44						
31	eP	Z	04	18	43						
	eS	ZNE		20	23						
31	iP	ZNE	08	50	50						
	eS	NE		51	24						
1	eP	Z	00	48	00						
1	eP	Z	02	59	30	1.2	1.4				
1	eL	ZE	10	31	.2						
1	eP	Z	12	36	23	1.4	2.0				
	eS	ZNE		44	44						
	eSS	ZN		48	.7						
	eSSS	ZNE		51	.4						
	eL	ZE		55	.2						
1	eP	Z	13	25	30						
	eS	NE			56						
1	eP	Z	16	46	57						
	eS	ZNE		49	17						
1	iP	Z	19	00	53.6						
2	iP	Z	07	04	39.9	1.5	2.0				
	eS	ZNE		14	.2						
	eSS	ZNE		21	.5						
	eL	ZNE		30	.9						
2	eP	Z	13	28	37						
	iS	NE		29	20						
2	eP	Z	18	39	31						
	eS	ZNE		41	17						
3	eP	Z	05	31	04						
	eS	NE			28						
	e	ZNE		33	22						
3	eP	Z	09	06	29						
	eS	ZNE			56						
3	eL	Z	15	25	.7						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
NOV 3	eL	Z	18	48	.3						
4	iP	Z	06	28	32						
	eS	ZNE		29	01						
4	eP	Z	07	59	48						
	eS	NE	08	00	16						
4	eP	Z	17	13	15						
	eS	NE		14	02						
5	eP	Z	02	55	21						
	eS	NE			39						
5	eP	Z	04	27	08	1.5	1.9				
5	iP	Z	06	02	08.5						
	eS	NE			29						
5	eL	ZN	07	24	.2						
	eL	E		25	.0						
5	eP	Z	09	09	09						
	eS	NE		10	15						
	eL	ZNE		11	.1						
	eT	ZNE		15	25						
5	eP	Z	11	58	57						
	iS	NE		59	18						
5	eS	NE	15	51	16						
6	eP	Z	10	04	22						
	eS	ZNE		13	.5						
	eSSS	E		21	.0						
	eL	ZNE		23	.5						
7	eL	ZE	08	03	.5						
7	eL	ZN	15	20	.3						
7	eS	Z	19	01	.2						
	eSS	Z		07	.6						
	eL	Z		20	.2						
7	eP	Z	23	43	50						
	eS	NE		45	17						
8	eP	ZNE	02	51	34	1.0	1.5				
	ePP	ZNE		53	12						
	eS	ZNE		57	44						
	eSS	ZNE	03	00	40						
	eL	ZN		04	14						
8	eP	Z	04	32	37						
	eS	NE		34	08						
8	eP	Z	07	03	19						
	eS	NE		04	03						
8	eP	Z	08	31	43						
	eS	NE			59						
8	eP	Z	14	48	14						
	eS	NE		49	14						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
NOV	eT	ZNE		54	20						
8	eP	Z	18	57	25						
	eS	NE		59	11						
8	eP	Z	21	43	44						
	eS	NE		44	07						
9	eP	Z	15	30	38						
	eS	NE		31	12						
9	eL	Z	19	17	.5						
9	eP	Z	20	12	00						
	eS	NE		13	25						
9	eP	Z	20	29	59						
	eS	NE		30	15						
9	eP	Z	21	16	16	0.9	1.5				
	eS	NE		17	39						
9	eP	Z	23	37	40						
10	e(P)	Z	04	24	55						
11	e(L)	ZE	03	38	.2						
11	eL	NE	08	33	.3						
	eL	Z		36	.2						
11	eP	Z	11	21	49						
	eS	NE		23	42						
11	eL	ZN	13	49	.5						
11	eL	NE	14	19	.0						
11	eL	NE	15	55	.5						
11	eL	ZNE	17	16	.9						
11	eL	ZN	18	52	.5						
11	eL	ZN	19	40	.4						
12	eL	ZNE	01	21	.3						
12	eP	Z	05	34	39	1.0	2.1				
	iS	NE		35	44						
12	eP	Z	07	54	05						
	eS	NE			41						
12	iP	ZNE	09	26	55.3						
	eS	ZNE		27	34						
12	eP	Z	09	47	11						
	eS	NE			54						
12	e(L)	Z	23	51	.0						
13	eL	ZNE	00	09	.8						
13	eS	ZNE	00	38	.2						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
NOV 13	1P	ZNE	14	26	06.5						
	eS	NE			24						
13	eP	Z	15	17	23						
	eS	NE		18	53						
13	eP	Z	20	00	33						
	eS	NE		03	07						
	eT	ZNE		16	45						
13	eP	Z	22	01	07	1.1	2.0				
	eS	NE		03	56						
	eL	ZNE		04	.3						
	eT	ZNE		16	00						
14	eP	Z	03	54	26						
	eS	NE		55	13						
14	eP	Z	04	07	37						
	eS	ZNE		17	.3						
	eSSS	ZN		25	.0						
	eL	ZNE		28	.3						
14	eL	ZNE	13	25	.4						
14	1P	Z	21	25	36						
	eS	NE			58						
15	eP	Z	01	15	41						
15	eP	Z	04	06	31						
	eS	NE		08	28						
	eT	ZNE		18	05						
15	eP	Z	07	24	03	2.0	1.9				
	eS	NE		25	34						
15	1P	Z	07	28	18.6	1.5	0.9				
	eS	ZNE			38						
15	1P	Z	08	04	36.6	10.0	1.0				
	eS	NE			54						
15	eS	E	16	13	.7						
	eS	ZN		14	.2						
	eL	ZNE		26	.5						
15	1P	Z	18	05	11.2	2.4	0.9				
	eS	ZNE			51						
15	eP	Z	20	30	11						
	eS	NE		32	23						
16	eP	Z	05	52	44						
	eS	ZNE		53	00						
16	eP	Z	06	03	39						
	iS	NE			59						
16	eP	Z	07	33	45						
	eS	NE		34	04						
16	eP	Z	11	23	46						
	eS	NE		24	03						

Da	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
16	eP	Z	21	21	54						
	eS	NE		22	26						
16	1P	Z	23	03	39						
	eS	NE		04	00						
16	1P	ZNE	23	06	06.5						
	eS	ZN			28						
17	1P	Z	00	02	01.2						
	e	ZN			23						
	eS	ZN			36						
17	1P	ZNE	05	27	10.5			5.2	0.7		
	iS	N			20						
17	eP	Z	08	10	42						
	eS	ZE		12	23						
	eL	ZN		13	.4						
	eT	ZE		20	17						
17	1P	Z	08	22	53	10.0	2.0				
	iS	ZN		28	44						
	iL	ZN		31	30						
17	eP	Z	11	05	33	1.5	1.5				
	eS	ZE		07	40						
	eScP	ZE		12	33						
17	eS	ZN	19	16	24						
	eL	ZN		22	.7						
18	1P	Z	12	09	50	3.0	1.1				
	eS	E		10	33						
18	1P	Z	14	42	27.5						
	eS	ZN		48	32						
	eSS	ZN		50	40						
	eL	Z		54	.0						
18	eP	Z	22	22	33						
	eS	ZE		23	45						
	eL	ZN		24	.0						
	e	ZE		27	47						
	eT	ZE		29	00						
18	eP	Z	23	36	37						
	eS	E		37	48						
	eT	ZE		43	04						
19	1P	Z	03	30	40.5						
	iS	ZE			59						
19	1P	Z	04	34	25	3.2	0.8				
	iS	E		35	07						
19	eSSS	NE	16	01	58						
	eL	NE		04	.0						
19	eP	Z	20	17	18						
	eS	NE			44						
19	1P	Z	23	42	24.8	4.5	2.5				
	eS	ZNE		48	14						
	iL	ZNE		51	08						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
NOV 20	eP	Z	00 02 26	0.8	2.0				
20	eP	Z	10 31 00						
	iS	NE	32						
20	eP	Z	13 01 52						
	eS	NE	03 26						
20	eP	Z	15 02 15						
	eS	NE	30						
20	eP	Z	16 41 35						
	e(S)	NE	43 51						
20	eP	Z	23 47 56						
	eS	NE	48 44						
	eT	ZNE	52 10						
21	eL	NE	00 01.2						
	eL	ZNE	03.5						
21	eP	Z	00 45 05						
	eS	NE	50						
21	eP	Z	08 45 05						
	eS	NE	42						
21	eP	Z	15 44 35						
	eS	NE	46 57						
	eL	E	47.9						
	eT	ZNE	57 02						
21	eL	ZNE	15 56.8						
21	eP	Z	18 52 12	0.5	1.1				
	eS	NE	54 02						
22	eP	Z	00 13 12						
	eS	NE	14 10						
	eT	ZNE	19 50						
22	iP	Z	02 40 24	1.3	2.0				
	eS	NE	41 53						
22	eP	ZNE	02 45 02	1.2	2.1	1.1	2.0	1.2	2.0
	eS	ZNE	48 16						
22	iP	ZE	05 53 47.7	1.0	2.2			0.9	2.0
	eL	ZE	06 05.6						
24	eP	Z	06 37 30						
	eS	NE	39 13						
24	eP	Z	09 21 26						
	eS	NE	46						
24	eP	Z	10 14 29						
	eS	NE	15 04						
24	eP	Z	10 53 30	2.5	2.0				
24	eP	Z	12 52 02						
	eS	ZNE	13 01 00						
	eSSS	NE	08 48						
	iL	Z	12 28						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
NOV	eL	NE	36						
	iL	ZNE	18 26						
24	eP	Z	13 17 26						
	eS	NE	18 05						
24	eP	Z	14 51 39						
	eS	NE	53 53						
24	eP	Z	19 48 36						
	eS	NE	49 21						
24	eP	Z	23 53 42						
	eS	NE	55 25						
25	iP	Z	08 32 38.7	3.2	1.0				
	iS	ZNE	33 27						
25	eL	Z	13 17.0						
26	eS	NE	10 42 40						
	eS	Z	43 36						
	eL	ZE	53 14						
	eL	ZE	55 56						
26	eP	Z	21 12 31						
	iS	NE	48						
27	iP	Z	09 42 23						
	iS	NE	56						
27	eP	Z	10 43 08						
	eS	NE	44 03						
27	eP	Z	11 40 16						
	eS	NE	44						
	e	NE	50						
28	eP	Z	11 02 55						
	eS	NE	04 52						
28	eP	Z	11 47 18						
	eS	NE	48 42						
29	e(P)	Z	01 42 27						
	eS	NE	43 55						
29	eP	Z	02 53 05						
	eS	NE	30						
	e	ZNE	55 08						
29	eP	Z	03 24 01						
	eS	NE	26						
29	eP	Z	06 35 49						
	eS	ZNE	36 07						
29	eP	Z	07 39 19						
	eS	ZNE	38						
29	eP	Z	09 35 43						
	eS	ZNE	36 01						
29	eP	Z	09 43 52						
	eS	NE	44 12						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
NOV 30	eP	Z	02 33 56						
	eS	ZNE	34 38						
30	1P	Z	07 45 31.6	0.6	1.9				
	eS	NE	47 21						
30	ePP	Z	12 44 54						
	eS	N	52.3						
	eS	Z	53.2						
	e	N	55.2						
	eSS	ZN	59 06						
	eSSS	ZN	13 02.6						
	e	N	04 56						
	eL	N	07.2						
	eL	ZN	12.0						
30	eP	Z	14 07 49						
	eS	NE	08 11						
30	eP	Z	16 10 20	1.5	1.4				
	eS	NE	12 32						
30	1P	Z	18 55 51.7	2.0	1.6				
	eS	NE	58 02						
DEC 1	1P	Z	04 47 58	3.0	0.8				
	eS	NE	48 25						
1	eP	Z	04 54 50						
	eS	ZN	55 36						
1	1P	ZNE	05 26 07						
	eS	NE	27 06						
1	eP	Z	11 51 07						
	eS	NE	54 05						
	eT	ZNE	12 08 13						
2	eP	Z	06 37 56						
	eS	ZNE	38 45						
2	eL	Z	10 23.0						
2	eP	Z	11 35 40						
	eS	NE	37 10						
2	eL	ZN	13 49.6						
2	eP	Z	15 22 08						
	eS	NE	23 37						
3	eL	ZNE	04 45.3						
3	eP	Z	19 15 45	1.0	1.9				
	eS	NE	18 32						
3	eP	Z	19 25 54	0.5	1.1				
	eS	NE	28 40						
3	eP	Z	21 03 28	0.5	2.0				
3	eP	Z	22 35 49						
4	eP	Z	00 39 33	3.2	2.0				
	eS	ZNE	40 05						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
DEC	eT	ZNE	42 20						
4	eL	ZNE	02 27.5						
4	eP	Z	09 37 10						
	eS	NE	53						
4	eP	Z	10 20 58						
	eS	NE	21 33						
	eT	ZNE	25 08						
4	eP	Z	15 56 07						
	eS	ZNE	16 01 48						
	eL	ZNE	04 44						
	eL	ZE	06.2						
5	1P	Z	05 16 53	3.6	1.9				
	eS	NE	18 35						
6	1P	Z	01 53 32.5						
	eS	NE	51						
6	e(S)	NE	02 55 04						
	eL	Z	56.5						
6	eL	ZNE	04 51.5						
6	eP	Z	05 43 02	4.3	1.7				
	eS	NE	44 31						
6	eP	Z	07 24 07						
	eS	NE	25 05						
6	eP	Z	08 11 25						
	eS	NE	52						
	e(T)	ZNE	14 44						
6	e(P)	Z	08 16 29						
	eP	ZNE	46						
	eS	ZNE	17 54						
	eL	N	18 06						
	eL	Z	19 08						
6	eP	Z	23 31 08						
	eS	NE	27						
	eT	ZNE	33 14						
7	eP	Z	09 05 53	2.0	2.0				
	eS	ZE	11 34						
	eSSS	N	14 26						
	eL	ZE	34						
	eL	ZE	16 20						
7	eL	Z	19 35.3						
8	eP	Z	15 11 29						
	eS	NE	12 02						
8	eS	NE	18 09.8						
	eSSS	NE	17.2						
	eL	ZNE	20.0						
9	eP	Z	06 21 20						
	eS	NE	22 40						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
DEC 9	eS	ZNE	11	40	24						
	eL	ZNE			48.7						
9	eSKS	NE	13	58	10						
	eSP	ZNE	14	00	34						
	esS	NE			03.3						
	esSS	ZNE			09 54						
	eL	Z			16.3						
	eL	Z			21.6						
10	eP	Z	03	19	26						
	eS	NE			45						
10	eP	Z	11	28	54						
	eS	NE			30 27						
10	eP	Z	15	22	20	1.5	2.0				
	e	ZNE			28 36						
	eS	ZNE			31 42						
	e	E			34 56						
	e	N			35 10						
	eSS	ZNE			37 00						
	eL	NE			40 37						
	eL	ZNE			43 00						
11	eP	Z	06	13	21						
	eS	NE			43						
11	eP	Z	06	51	19						
	eS	NE			54						
11	eP	Z	16	15	47						
11	iP	Z	19	03	56.5						
	iS	NE		04	16						
12	eP	Z	02	20	25						
	iS	NE			52						
12	eP	Z	07	27	14						
	eS	ZNE		32	55						
	eSSS	ZNE		36	00						
	eL	ZE			38.0						
12	eP	Z	12	54	10						
	iS	NE		55	00						
12	iP	Z	19	47	40	3.6	2.0				
	eS	NE		49	43						
	eT	ZNE		57	51						
12	eP	Z	22	17	22						
	eS	NE		18	32						
	eT	ZNE		24	04						
12	eL	Z	23	28.0							
13	eP	Z	00	18	25	1.5	2.0				
	eS	NE		24	10						
	eL	Z			25.2						
13	iP	Z	13	21	44.3						
	iS	NE		22	05						
14	eL	ZNE	02	51.0							

Da	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
M 15	iP	Z	01	17	18						
	iS	NE			37						
15	eL	ZE	12	51.4							
15	iP	Z	22	16	41						
	eS	NE		17	00						
16	eL	ZE	02	41.8							
16	eL	ZNE	03	25.5							
16	eP	Z	13	41	07						
	iS	NE			27						
16	eP	ZN	19	22	27	1.0	1.1	1.5	1.2		
	eS	ZNE		23	44						
	eL	E			24.0						
16	iP	Z	22	53	27						
	iS	NE			48						
17	eL	ZN	05	49.5							
17	eP	Z	10	30	33	2.0	1.2				
	eS	NE		31	52						
18	eS	ZNE	00	03	36						
	eL	ZNE			13.6						
18	eP	Z	07	10	58						
18	iP	Z	09	41	05	1.5	1.8				
18	eP	Z	20	48	21						
	eS	NE		49	16						
19	eP	Z	06	45	53						
	e	NE		46	11						
	eS	ZNE		49	18						
19	e(P)	ZN	23	30	34						
20	eP	Z	08	34	30	1.0	1.8				
20	iP	ZNE	11	28	33.3	10.7	1.8	6.0	1.9	5.0	1.9
	iS	ZNE		30	05						
20	iP	ZNE	12	12	28	8.0	1.3	5.0	1.8	4.0	1.9
	iS	NE			46						
20	iP	Z	17	36	18.9	5.8	0.9				
	eS	NE			40						
21	eP	ZNE	01	35	10	1.3	1.9	0.6	1.8	1.5	2.0
	eS	ZNE		36	44						
21	eP	Z	14	18	39						
21	eP	Z	16	35	07						
	e(S)	NE		37	19						
21	eP	Z	18	15	43						
	eS	NE		16	11						
	eT	ZNE		18	24						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
DEC 22	eP	Z	02	33	19						
	eS	ZNE		35	06						
22	eP	Z	06	07	22						
	eS	NE			40						
22	eP	Z	11	35	10						
	eS	NE			29						
22	eP	ZE	12	00	35	1.0	2.0				
	i	Z			41	2.5	1.9			1.5	2.0
	eS	ZNE		02	32						
22	eP	Z	12	08	37	2.3	1.0				
	eS	NE		09	27						
22	eL	E	21	23.6							
	eL	ZNE		26.0							
23	eP	Z	06	53	16						
	eS	NE			44						
	e	ZNE		55	40						
23	iP	Z	14	14	40	2.2	1.0				
	iS	NE		15	14						
23	iP	Z	15	44	17.2						
	iS	NE			36						
23	eP	Z	17	25	19						
	eS	NE			51						
23	eL	Z	20	21.3							
24	eP	ZNE	18	53	01						
	eL	ZNE	19	01.0							
24	iP	ZNE	18	54	29						
	eS	NE			48						
24	eP	Z	23	51	23						
	eS	NE		53	36						
25	iP	Z	03	17	19.8	8.0	1.0				
	iS	NE			38						
25	eP	Z	04	27	52						
	eS	NE		28	10						
25	eP	Z	08	09	55						
	eS	NE		10	15						
25	eP	Z	13	02	30						
	eS	NE			50						
25	eP	Z	15	18	28						
	eS	NE		20	00						
25	iP	Z	20	51	02.4	4.5	1.5				
	eS	NE			20						
26	eP	Z	04	59	17	2.1	1.2				
	eS	NE	05	00	53						
26	iP	Z	14	41	33.5	2.5	2.0				

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
DEC	eS	NE		50	38						
	eL	E		58.7							
	eL	ZN	15	02.2							
26	iP	Z	18	38	53.8						
	iS	NE		39	26						
26	eP	Z	22	08	14						
	iS	NE			34						
27	eP	Z	00	26	11						
	eS	NE			40						
27	eP	Z	09	47	16						
	eS	NE			35						
27	eP	Z	17	54	20	1.3	2.6				
	eSSS	N	18	11	42						
	eL	ZNE		14.3							
28	iP	ZNE	04	53	15.2						
	eS	ZNE			31						
28	eP	Z	15	57	01						
	eS	ZNE			33						
28	iP	Z	16	18	35.9	5.0	2.0				
	eS	ZNE		20	30						
28	eP	Z	16	58	48						
	eS	NE		59	30						
29	eP	Z	01	42	31						
	eS	NE		43	05						
29	eP	Z	09	30	24						
	eS	NE		31	13						
29	iP	ZNE	23	01	14	3.0	2.0	1.9	1.9	2.0	2.0
	eS	ZNE		02	42						
30	iP	Z	03	31	21						
	eS	NE			35						
30	eP	Z	13	16	56						
	e	E		17	04						
	eS	ZNE		18	00						
	eT	ZNE		21	00						
30	eL	ZE	13	35	26						
30	eSS	E	13	38.8							
	eL	ZN		43.0							
30	eP	Z	15	37	42	3.4	1.7				
30	eP	Z	21	33	34						
	eS	NE		35	36						
	eScP	Z		40	25						
	ePcS	Z		41	18						
31	eP	Z	06	42	02						
	eS	NE			34						
	eT	ZNE		45	04						

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
DEC 31	eP	Z	11	25	28						
	eS	ZNE		26	02						
	eT	ZNE		28	23						
31	eP	Z	17	45	20	2.0	2.0				
	eS	NE		47	42						

SUVA

Amplitudes are given in millimetres, read directly from the records of the vertical component Willmore seismograph.

Date	Phase	h	m	s		Az
JAN 3	eP	21	25	58		
FEB 18	iP	04	44	30	u	11.2
18	eP	10	39	47		0.7
18	eP	19	11	13		1.7
20	eP	09	08	14		1.5
20	eP	18	23	23½		2.0
23	iP	12	28	41½	u	2.0
23	eP	13	41	43		0.7
24	eP	14	53	44½		1.2
26	eP	21	19	04½	u	4.0
28	P	16	14	41½		1.0
28	iP	17	05	47.6	u	1.5
28	eP	19	27	46		1.4
29	eP	20	15	50		1.5
29	eP	20	44	52		1.0
	eS		45	03		2.0
MAR 1	eP	00	00	10		1.5
2	eP	19	34	23		6.0
3	eP	01	25	38		1.5
3	eP	16	00	11½		2.0
3	eP	17	16	17		1.2
4	eP	09	32	17½		0.5
4	eP	10	14	57		11

Date	Phase	h	m	s		Az
MAR 5	eP	10	09	40		1.0
6	eP	20	43	49¼	u	1.5
6	eP	23	53	05		1.6
7	eP	23	14	51		7.2
9	eP	19	21	36		5.5
10	eP	07	58	38		0.6
11	eP	01	15	29½		0.4
12	eP	04	31	56		0.8
12	eP	10	38	35	u	2.0
12	eP	21	15	32½		0.7
	eS			54		1.5
13	ePn	04	25	05		0.7
	eP*			13		1.0
	eSn			34		3.7
13	eP	06	20	20½		0.4
13	eP	12	55	14		0.5
14	eP	22	49	53½		0.6
16	eP	15	01	31½		0.8
	e			42½		
16	iP	17	43	17.8	u	3.6
16	iP	17	43	17.8	u	3.6
16	eP	19	17	59½		0.3
16	eP	21	41	08		3.0
16	eP	23	30	44½		1.1

Date	Phase	h	m	s		Az
MAR 17	e(P)	21	35	58		0.5
	e		36	32		0.5
18	eP	00	12	13		1.1
18	eP	04	48	16		0.5
18	eP	05	18	37½		0.3
19	e?	04	47	20		
	iP			21	d	6.0
	eS		48	34.5		1.0
19	iP	06	50	38.1		7.2
	eS			43		1.0
19	eP	08	45	05.2		0.9
19	e(P)	08	45	59		0.9
19	eP	21	46	24½		1.2
21	eP	03	50	45		1.0
21	eP	16	29	38		0.8
23	eP?	07	38	37		
	e(P)			40		1.0
	eS		39	05½		3.0
23	eP	09	20	41½		<0.2
25	eP	11	35	21½		0.9
25	eP	15	34	44½		0.2
25	eP	16	38	41		3.0
	eS		39	14		8.0
27	iP	20	23	46.0	d	4.5
	eS		25	06½		1.2
28	eP	03	48	45½		4.5
28	eP	11	39	50½		0.7
	e(pP)		40	27½		0.4
29	eP	21	45	55		0.6
31	eP	17	05	54½		0.5
APR 2	eP	01	24	22½		
2	eP	16	06	27		
2	eP	21	34	00½		
3	eP	01	58	08		0.7
3	eP	08	24	59½		0.7
3	eP	19	10	59		0.4
4	eP	01	20	57		0.5

Date	Phase	h	m	s		Az
APR 4	eP?	09	22	57½		
	e(P)		23	03		
4	eP	17	58	05		0.2
4	eP	18	19	45		
6	eP	02	36	11½		1.0
6	eP	10	19	13		2.0
6	eP	22	35	46		0.7
7	eP	15	49	09		1.2
8	eP	12	50	15½		3.7
	e			45		6.5
8	eP	19	29	55		0.2
8	eP	21	35	01		0.2
	eS			25		0.8
	e			32		1.1
9	eP	00	02	11½		0.7
9	eP	05	47	23½		1.0
11	iP	01	07	03.0	d	1.0
	i			04.0	u	1.3
12	eP	11	14	33		1.5
13	eP	03	04	21½		3.0
13	eP	06	24	59		1.5
13	eP	11	26	17½		0.5
	e(S)			42		1.3
13	e(P)	11	28	05		0.5
14	eP	00	09	05		0.4
14	eP	09	01	19		0.6
14	eP	20	45	41½		0.5
14	eP	22	47	47		1.0
15	iP	11	24	37.8	d	1.5
15	eP	22	01	50		0.9
16	eP	03	02	49½		0.4
16	eP	14	34	42		0.4
17	eP	01	46	18		1.0
	eS			24½		3.2
17	eP	06	05	33		0.5
18	eP	17	58	17½		

Date	Phase	h	m	s		Az
APR 18	eP	19	53	54		0.3
	e(S)		54	24		0.5
19	eP	03	58	16½		0.5
19	eP	14	25	19		
19	eP	16	43	23½		2.0
22	eP	19	40	03		0.1
22	eP	20	02	58		0.2
	e		03	06		2.2
22	eP	23	07	04		0.1
23	eP	03	41	07		0.7
24	eP	03	19	37		1.5
24	eP	06	03	00½		2.0
25	eP	05	37	04		2.0
	e			08		7.5
	eS			38		15
25	eP	06	31	02		1.7
	e			08		11
	eS			36		21
25	eP	06	47	35½		2.5
	eS		48	10		4.0
25	eP	07	02	24½		1.5
25	eP	07	18	26		2.5
	eS		19	01½		4.0
25	eP	08	09	24		0.6
26	1P	14	53	29.1	u	11
26	eP	14	53	39		9.0
28	eP	14	58	38½		0.5
28	1P	15	55	15½	u	2.2
29	eP	19	12	01		0.3
30	eP	04	51	04½		0.6
	eS		52	03		0.7
MAY 1	eP	23	51	00		0.5
2	eP	16	36	00		1.0
	eS		37	55		0.3
3	eP	10	25	30		0.4
5	eP	08	50	02		0.3
6	eP	08	14	45		0.3
6	eP	20	35	06		0.3

Date	Phase	h	m	s		Az
MAY 7	1P	00	36	17	d	7.0
	eS		37	20		0.5
7	ePKP?	06	04	55		<0.2
7	eP	08	09	18		0.7
	eP'P'		37	31		<0.2
7	eP	20	23	53		0.3
7	eP	23	15	50		0.2
8	eP	03	39	27		0.2
8	eP	04	01	54		0.2
9	eP	12	15	00		0.3
9	eP	18	19	23		0.5
9	eP	21	12	47		0.3
11	eP	14	40	(59)		1.5
11	eP	22	17	17		0.4
12	1P	01	39	56		0.8
12	eP	10	04	24		0.4
12	e?	11	39	52		0.3
	e(P)		40	07		1.0
	e			32		1.6
12	e	11	47	13		0.7
12	eP	18	19	04		1.0
13	e(P)	00	08	18		1.0
13	eP	05	29	01		1.1
13	1P	11	07	46	u	14
	eS		08	57		2.2
13	eP	16	46	17		0.4
13	eP	20	41	29		0.3
14	eP	20	02	30		1.0
15	eP	23	25	34		0.9
16	eP	10	10	08		0.8
16	eP	13	54	55		0.5
16	eP	16	11	18		0.5
17	eP	01	53	18		0.5
	e(S)			43		0.9
17	1P	11	16	28		1.4
17	eP	17	00	14		0.8

Date	Phase	h	m	s		Az
17	e	17	05	37		2.0
20	eP	06	08	55		0.3
20	eP	16	56	13		4.5
23	eP	04	50	44		1.0
	e(S)			10		1.3
24	eP	04	15	08		1.1
24	1P	09	55	49		10
24	eP	20	33	54		0.6
25	1P	08	34	33	d	1.0
26	eP	11	12	54		0.4
	e?		16	04		<0.2
	ePP		17	22		0.3
	eS		23	34		<0.2
26	e(P)	21	02	59		1.1
26	eP	21	21	37		1.3
	e			54		1.5
	eS		22	06		7.0
26	e(P)	21	57	18		0.9
26	e(P)	22	59	35		1.5
27	eP	08	59	09		0.2
27	eP	11	22	28		0.2
27	eP	15	50	10		0.3
28	e(P)	02	39	56		0.5
	e(S)			23		2.4
28	ePn	03	14	26		0.6
	eSn			54		1.8
	eS*		15	06		3.5
28	eS	03	59	36		0.3
28	1P	05	21	52	u	1.0
	e		22	02		0.5
28	ePn	06	24	02		0.3
	eSn			29		0.5
	eS*			41		1.0
29	eP	12	26	35		0.8
	eS		27	41		0.7
29	1P	18	37	02	u	1.0
29	eP	18	44	19		0.3
29	eP	19	03	56		0.3
30	ePn	05	36	45		
	eSn		37	12		

Date	Phase	h	m	s		Az
MAY	eS*			23		
30	eP	14	41	29		0.2
31	eP	00	51	32		0.5
	epP			50		0.7
31	eP	17	17	10		0.7
31	1P	19	46	02		6.5
	e(S)			44		3.5
JUN 1	eP	04	07	52		2.0
	eS		08	39		4.5
1	eP	06	07	53		0.4
1	eP	13	18	53		0.3
2	eP	23	15	29		0.3
3	eP	08	14	10		0.5
	e(S)			46		0.8
3	eP	13	21	26		1.9
	eS		22	01		3.5
3	eP	17	35	55		0.5
3	eP	17	56	14		0.3
3	eP	18	55	04		1.2
	eS			40		2.7
4	eP?	00	19	10		0.2
4	eP	11	55	30		1.0
5	eP	01	05	34		0.3
5	1P	09	13	47	u	
	Felt: Nandi and Yasawa.					
5	eP	09	17	48		1.0
	eS		18	15		1.3
5	1P	16	25	00	u	19
	e(S)			30		26
5	eP	16	35	21		0.5
	eS			47		1.0
5	eP	16	42	53		1.2
	eS		43	24		1.2
6	1P	18	15	41	u	16.5
	e(S)		16	15		31
7	1P	13	09	52	d	0.5
7	1P	16	46	52	u	16.5
	e(S)		47	30		19.2
7	1P	19	44	08	u	5.2
	e			26		

Date	Phase	h	m	s		Az
JUN	e(S)			41		9.2
8	iP	02	28	16	u	2.5
9	iP	03	56	11	u	1.1
9	iP	15	03	47	d	0.8
10	iP	04	08	35	d	3.5
10	eP	19	16	30		0.8
11	iP	13	45	24	d	1.7
12	eP	18	14	16		1.0
13	eP	11	16	57		0.8
13	iP	23	48	06	u	2.7
14	iP	01	22	28	u	0.8
14	iP	15	28	33	u	2.8
15	iP	02	07	22	d	0.8
15	eP	20	12	07		0.5
	e(S)			41		1.2
16	eP	04	12	34		2.0
16	eP	08	36	00		0.6
16	eP	09	58	03		0.5
	eS			16		0.6
16	eP	17	36	22		1.0
17	eP	01	54	45		1.7
	e(S)		55	15		4.0
17	iP	22	18	13	d	3.5
20	eP	12	33	18		0.4
20	iP	23	04	49	d	0.8
21	iP	22	21	52	u	36
22	eP	00	18	37		0.7
22	e	03	07	53		0.5
22	iP	07	44	58	u	0.5
22	iP	13	42	04	d	2.7
22	iP	20	59	49	u	13
	e(S)	21	00	24		20.5
23	eP	01	37	31		1.0
28	eP	14	55	01		0.5
30	iP	05	30	14	d	3.1

Date	Phase	h	m	s		Az
JUN 30	iP	10	16	44	d	0.6
30	iP	13	56	15	d	0.7
JUL 2	iP	22	11	12	u	1.4
	e?			39		0.5
5	ePn	14	11	50		0.5
	eP*			58		0.8
	eSn		12	25		1.1
6	eP	07	34	52		0.6
6	eP	19	51	58		0.5
	eS		53	01		0.5
	eLr			54.6		0.6
7	iP	07	40	44	d	4.2
	i			53	u	2.1
	eS		42	01		0.9
7	iP	14	18	21	u	3.0
8	iP	12	04	12	u	1.0
8	eP	15	25	28		0.5
9	iPn	11	24	00	u	6.3
	iP*			29	d	4.1
9	iP	16	42	26	d	16.4
	e?		43	02		10
	e(L)		44			5.7
11	iP	05	55	36	d	4.0
13	iP	01	16	00	d	0.9
	e			10		0.6
14	eP	23	16	03		0.5
15	iP	00	25	49	u	6.8
	e?		26	02		11.6
15	eP	08	28	13		0.4
17	iP	04	56	41	d	8.0
17	iP	19	11	13	u	0.9
19	eP	06	52	20		0.3
20	eP	22	47	00		
20	eP	22	59	32		0.5
21	iP	03	50	59	d	27
22	iP	12	21	33	d	0.5
24	iP	04	36	55	d	0.6
	eS		37	22		3.3
25	iP	12	21	51	u	6.5
	e		23	03		1.6

	Phase	h	m	s		Az
17	iP	21	02	19	u	1.5
	eP	21	14	57		1.3
	e(S)		15	23		2.2
	eP	05	58	40		0.5
	iP	06	28	29		8.8
1	e	02	18	45		1.2
	iP	02	28	46	u	0.6
	iP	09	49	46	d	0.5
	iP	11	09	13	d	8.5
	eS		11	57		1.5
	eSS		12	18		0.7
	iP	17	05	03		2.0
	e(S)			36		1.0
7	iP	02	16	52	d	0.8
7	iP!	12	38	57		
10	iP	16	52	10	u	3.3
	e?			47		4.0
11	iP	05	51	19		1.0
13	eP	00	36	27		1.0
	eScP		42	41		0.5
16	iP	19	42	31	d	1.1
17	iP	11	46	24		1.8
17	iP	15	16	46	u	2.7
	e		17	25		4.5
	e		18	36		1.2
17	iP	22	04	35	u	0.7
18	iP	08	56	54	u	1.5
	e?		57	35		1.6
18	eP	10	04	00		1.0
	eS			33		2.4
24	iP	02	03	12	d	1.0
25	eP	21	04	11		0.5
25	iP	19	33	05	u	1.4
	eS		34	13		0.4
27	eP	07	55	59		0.5
27	eP	23	49	58		0.5
28	iP	04	36	51	u	4.0
28	iP	14	43	56	d	0.7

Date	Phase	h	m	s		Az
AUG 29	iP	17	28	53		0.4
30	iP	06	13	25	d	1.2
30	iP	21	46	21	u	
SEP 5	e?	02	59	57		0.5
6	iP	09	22	49	u	
12	iP	15	20	39		5.0
	eS		21	40		2.0
12	eP	22	13	40		0.9
13	iP	12	43	06	d	1.3
15	eP	12	46	20		0.8
15	eP	15	42	22		0.5
	ePP		45	50		0.3
16	iP	13	44	58	u	1.3
16	iP	20	48	43	d	3.5
19	iP	10	08	02	u	1.6
21	iP	04	24	48	u	13
	eS		26	00		2.0
	e		27	07		1.0
21	iP	18	13	40	u	1.6
	e			45		1.0
21	iP	23	18	01	u	2.5
25	eP	23	30	32		2.1
	eS		32	18		0.7
26	eP	03	40	39		0.5
28	iP	12	55	24	d	3.2
29	iP	14	02	08		2.3
	eS		03	42		1.0
30	iP	03	48	34	u	0.6
OCT 2	eP	13	04	36		1.1
3	eP	17	04	05		2.5
4	iP	12	29	00	u	0.5
5	iP	08	32	19	d	0.4
5	iP	12	26	00	d	0.4
5	eP	13	14	04		0.5
5	eP	14	00	45		0.9
6	ePKP	14	51	03		0.5

Date	Phase	h	m	s		Az
OCT 6	eP	19	14	34		0.5
7	iP	01	26	08		2.2
9	iP	21	36	29		0.6
10	eP	08	32	50		0.4
10	iP	17	17	44	u	1.0
	e(S)		18	30		1.5
11	eP	11	13	34		0.5
11	iP	21	24	58	u	
12	iP	01	50	02	d	1.0
13	iP	03	16	31	d	0.6
13	eP	18	14	21		0.4
16	iP	06	17	16	d	9.5
17	eP	01	44	10		0.5
17	eP	05	57	46		0.5
17	eP	10	04	50		0.5
18	eP	12	41	01		3.7
	eS		47	59		0.5
18	iP	22	33	00	u	
19	iP	08	52	07	u	
19	eP	21	16	18		1.1
20	iP	00	50	54	d	2.1
22	eP	14	56	33		1.0
	eS			56		1.8
25	iP	12	10	22		
26	eP	14	32	25		0.3
27	eP	20	02	54		0.5
28	e?	05	51½			0.4
28	eP	19	10	43		1.9
30	iP	16	32	27	u	1.0
31	iP	09	16	29	d	2.4
	eS			54		5.0
NOV 1	iP	02	58	28	d	1.0
2	iP	18	38	50	u	0.5
2	iP	22	14	37	u	10.9
11	iP	11	21	05	u	1.4

Date	Phase	h	m	s		Az
NOV 13	eP	22	00	08		0.5
17	eP	00	03	21		0.4
17	eP	08	21	43		0.7
17	iP	11	04	41	u	3.0
	eS		05	57		2.1
	e		06	25		1.9
18	eP	22	22	59		4.0
19	eP	23	41			0.7
21	eP	15	43	57		0.5
22	iP	02	39	49		1.0
22	iP	02	42	52		1.8
23	eP	07	55	16		0.8
	eS			50		1.2
24	iP	06	36	43		
28	eP	01	58	20		0.5
	eS			50		1.5
30	iP	07	44	44	u	1.0
30	eP	16	09	10		0.6
30	iP	18	54	47	d	1.1
DEC 1	eP	04	54	52		8.0
1	eP	05	25	23		2.0
1	eP	14	06	03		1.1
5	eP	05	42	26		1.2
9	eP	15	20	35		0.5
10	eP	15	22	09		0.5
11	eP	05	30	16		0.9
12	eP	19	47	26		0.9
12	iP	22	17	48	d	0.9
13	eP	00	17	10		0.4
16	eP	19	22	15		0.5
17	eP	10	30	32		0.9
20	iP	11	27	56		2.5
21	eP	01	34	32		2.1
22	eP	02	32	24		1.8
22	iP	11	59	37	u	4.5

	Phase	h	m	s		Az
	eS	12	00	47		0.8
	iP	03	18	03	u	8.0
	eP	19	38	18		
	eP	18	50	18		0.6
	eP	04	22	09		
	eP	04	58	36½		0.4
	eP	15	41	15		0.7
	eP	15	44	25		0.7
	eP	16	46	01		0.6
	eP	17	53	35		

Date	Phase	h	m	s		Az
DEC 27	eP	20	06	37		0.6
27	eP	23	28	55		0.4
28	iP	16	17	38½	d	23
29	eP	23	00	42		0.5
29	eP	23	49	34		3.4
	eS		50	05		8.5
30	eP	16	08	15		0.5
30	eP	16	38	41		0.7
30	eP	21	32	31		1.9
	eS		33	50		0.8
31	eP	17	18	14		

RAOUL ISLAND

Amplitudes are given in millimetres, read directly from the records of 15 mm film recorder until Dec 6, when a paper recorder was substituted.

	Phase	h	m	s		Az
4	iP	05	14	52		11
	S		15	14		37
5	eP	10	12	42		15
6			13	07		
	eS			23		50
10	P	06	04	57		>>
4	P	04	18	16		28
	S			42		
4	iP	10	20	42	u	21
	S		21	03		35
5	iP!	18	47	04.3		>>
4	iP	04	14	50	d	17
	eS		15	00		
18	eP	18	45	06		10
	eS			52		21
20	iP	00	16	05.0	u	
	eS			15		>>
22	eP	17	11	50		4.0
23	iP	23	06	42.0	d	>>
24	eP	06	46	40		

Date	Phase	h	m	s		Az
JAN	eS			54		>>
25	eP	12	09	38		9.0
29	eP	13	09	34		5.0
	eS			54		10
FEB 5	iP	11	18	39.9	d	
5	eP	11	36	35		6.0
	eS		38	21		5.0
6	eP	20	33	49		4.0
8	eP	00	29	14		6.0
	eS			48		
8	eP	05	24	33		4.0
	eS		25	05		12
8	eP	11	33	43		6.0
	eS		34	05		
10	eP	18	20	15		4.0
	eS			27		
13	eP	04	50	49		8.0
	eS		51	03		27
14	eP	18	36	55		1.5

Date	Phase	h	m	s		Az
FEB 15	eP	14	03	55		3.5
16	eP	09	32	19		3.5
16	iP	10	06	21.0	u	>>
18	eP	01	48	07		6.0
	eS			24		15
18	eP	05	57	03		6.0
	eS			33½		22
20	eP	10	26	27.6	u	
	e			31		
	eS			37		
22	eP	08	17	41		8.5
	eS		18	09		16
22	iP!	08	50	47.6		>>
25	eP	15	47	14		3.0
	eS			40		9.0
25	iP	23	23	45.1	u	>>
	S			59		>>
26	eP	21	19	13		
28	eP	06	07	20		14
	eS			36		
28	eP	13	09	40		
	eS		10	00		
29	eP	02	09	27		6.0
	eS			56		14
MAR 2	eP	19	35	10		8.0
	S		37	05		42.5
	e(PcP)		40	52		4.0
3	iP	15	12	33	d	1.5
	i			45		>>
4	eP	06	10	13		2.0
	eS		11	10		6.0
7	eP	23	15	36		3.0
	eS		17	27		3.0
8	eP	03	17	00		4.5
	eS			28		5.0
12	eP	04	32	03		6.0
	eS		33	08		
12	eP	10	58	11		5.0
	eS			23		>>
12	eP	18	21	35		7.0
	e			44		14
	eS		22	00		24
14	eP	11	46	56		2.5

Date	Phase	h	m	s		Az
MAR	eS		48	37		5.0
16	P	19	14	17		7.0
16	eP	19	15	26		11
	eS			53		39
19	eP	04	47	43		3.0
	eS		49	25		4.5
21	iP	16	27	43.0	d	>>
21	e(P)	20	18	36		2.0
22	eP	20	39	21		11
	eS			31		
22	eP	20	41	(34)		5.5
	eS			45		24
23	P	02	27	15		7.5
	S			26		
25	eP	04	19	20		11
	eS			43		35
25	eP	13	05	16		5.0
	eS			32		
27	iP	20	23	46.2	u	10
	eS		25	02		14
	e		28	12		5.0
	e(PcP)		29	05		4.5
28	eP	03	49	52		5.0
APR 3	iP	08	47	53.7	d	>>
5	iP	18	05	58.3	d	
5	P	22	23	05		2.0
5	eP	22	23	09		
	eS			19		
11	iP	01	05	14.6	d	>>
12	iP	11	12	06.4	u	
	eS		13	03		
15	eP	16	00	37		1.5
17	iP	06	06	35.6	d	3.0
19	iP	20	57	15.0	d	
22	P	20	04	42		2.0
23	eP	11	47	40		
	eS		48	08		
24	iP	06	04	02.9	d	5.5
26	iP	01	42	33.0	u	

	Phase	h	m	s		Az
25	eP	13	00	32		
	eS			56		
25	eP	14	54	08		
	eS		55	35		
25	iP	22	17	23.4	d	
26	iP	23	34	13.1	d	
29	P	19	09	27		
31	eP	23	48	23		2.0
	eS		49	11		4.0
2	iP	16	34	44	d	
	eS		35	24		
5	eP	09	21	02		
	eS			50		
6	eP	20	32	27		
	eS		33	13		
7	eP	23	13	14		2.5
	eS			59		5.0
8	eP	02	53	19		
8	eP	03	36	50		
	eS		37	30		
8	eP	03	58	55		
	eS		59	17		
8	eP	04	11	30		
8	eP	05	10	42		
8	iP	22	19	21.0	d	
9	eS	12	16	23		2.0
10	eP	14	38	07		1.5
	eS			50		3.0
11	eP	00	10	30		
	eS		11	11		
11	iP	05	30	45.5	u	2.0
	eS		31	55		
11	eP	14	40	44		0.2
	eS		41	55		5.0
12	iP	01	39	27.7	d	1.5
	eS		40	39		1.5
12	eP	06	47	04		1.0
	eS		48	21		1.5
12	P	10	04	46		1.0
	S		06	34		1.5
12	eP	13	33	06		

Date	Phase	h	m	s		Az
MAY	eS			25		
12	eP	18	19	25		2.0
13	eP	05	26	15		
	eS			59		
13	eP	07	28	18		2.0
	eS		29	04		3.0
13	eP	08	11	53		1.5
	eS		12	39		3.0
13	eP	08	28	45		1.5
13	eP	09	51	19		
	eS			57		
13	eP	11	08	09		
	eS		09	43		
13	eP	11	27	12		1.5
	eS			54		3.0
13	eP	13	23	36		
13	eP	15	19	21		
13	eP	16	43	39		
	eS		44	21		
13	eP	16	51	26		
	eS		52	01		
13	eP	16	53	38		
	eS		54	20		
13	eP	17	33	52		
	eS		34	35		
13	eP	22	36	35		
14	eP	13	24	18		
	eS			58		
15	iP	10	47	25.2	d	>>
17	eP	06	56	19		
17	eP	17	06	23		
	eS		07	11		
17	eP	18	27	12		
17	eP	23	07	10		
	eS			44		
18	eP	14	14	09		
	eS		15	39		
20	eP	04	54	02		
	eS			24		
20	eP	05	34	51		1.5
	eS		35	28		3.0

Date	Phase	h	m	s	Az
MAY 20	eP	06	07	35	
	eS		08	44	
22	eP	00	28	12	
23	eP	12	19	01	
	eS			42	
24	eP	04	14	52	
	eS		16	14	
25	eP	04	59	59	
	eS		00	12	
27	eP	08	57	57	
	eS		58	40	
29	eP	18	36	32	
29	eP	18	42	51	
29	eP	19	03	27	
JUN 4	eP	00	16	30	2.5
	eS		17	12	6.5
5	eP	01	04	46	
	eS		05	20	
8	eP	02	28	41	
	eS		30	10	
8	eP	05	33	29	
	eS			54	
9	eP	03	55	44	
	eS		56	21	
9	eP	14	32	16	3.0
9	eP	21	07	20	
	eS		08	42	
10	eP	08	55	34	
	e			56	
	e		56	03	
	e			06	
	eS			16	
12	P	18	13	45	
	S		14	57	
13	iP	11	14	46.5	u
13	eP	15	02	00	
	eS			31	
13	P	15	52	22	
13	P	22	32	08	
13	eP	22	20	12	
	eS		22	00	
13	eP	23	24	35	

Date	Phase	h	m	s	Az
JUN	eS		25	08	
14	iP	01	20	19.2	d >>
14	eP	04	20	03	
	S			28	
14	iP	05	14	00.7	d
17	iP	22	19	12.5	d
	eS		20	29	
22	eP	13	41	14	
	eS		42	06	
28	eP	23	46	02	
	eS			20	
JUL 1	iP!	16	04	45.0	
7	P	07	40	45	0.9
	eS		42	01	0.6
8	iP	04	20	41.5	d
	eS		21	00	
9	eP	11	23	33	
	e			45	
	eS		24	42	
9	eP	16	44	09	
12	iP	13	33	22.6	d
13	eP	10	05	17	
	eS		06	25	
20	eP	10	24	19	
	eS		25	24	
21	eP	02	48	53	
	eS		49	53	
21	iP	03	49	50.0	d >>
23	eP	16	40	41	
	eS		41	07	
26	eP	06	30	09	
31	P	06	27	51	5.0
	eS		28	48	5.5
AUG 5	iP!	11	06	55.5	>>
6	iP	17	05	19.0	d
	i			21.9	d
	iS		06	44.4	u 11
10	iP	07	31	04.9	d
20	iP	08	32	57.2	u
21	iP!	18	07	58.0	

...	Phase	h	m	s	Az
...24	eP	02	03	49	
	eS		05	30	4.5
24	iP	21	28	20.5	u
	S			48.5	
26	eP	01	03	08	3.0
...1	iP	12	30	31	d 8.0
	S			44	24
3	eP	11	23	01	4.0
	S			25	12
3	P	15	31	15	9.0
	S			38	12
3	iP	15	37	08	u 19
	S			29	20
3	P	18	19	01	6.0
4	P	04	25	53	d
4	eP	14	52	10	5.0
5	eP	02	18	27	12
	eS		19	10	40
5	eP	03	00	39	5.0
6	eP	09	23	33	2.5
	eS		25	22	
6	P	19	45	39	5.0
	S			51	30+
8	eP	13	43	21	2.0
8	eP	14	10	30	3.0
8	eP	14	13	51	2.0
8	eP	17	09	13	3.0
10	P	05	02	02	10
	S			15	30+
10	P	23	06	32	u 5.0
	S			46	25
11	iP	10	45	54	d 8.0
	S		46	06	30+
11	iP	11	05	29	d 18
	eS		06	06	35
12	iP	12	51	12	d 3.5
	PcP		53	00	
12	eP	15	21	58	5.0
	eS		24	04	7.0
13	eP	15	14	16	4.0
	S			40	32

Date	Phase	h	m	s	Az
SEP 16	P	07	47	15	8.0
	S			32	
17	iP	07	00	23	d 12
21	iP	04	25	12	d 12
	S		26	45	12
21	iP	18	11	44	d 11
	S		12	17	45
24	P	20	21	49	4.0
25	eiP	23	28	45	d,u >70
	S?		29	39	
27	iP	13	24	56	u 15
	S?		25	16	>25
29	eP	14	02	32	4.0
	eS		04	(09)	5.0
OCT 1	eP	20	39	02	
	S			45	9.0
2	iP	04	33	02	d 5.0
	isP		34	31	
2	eP	13	06	12	
3	iP	16	53	11	
3	eP	22	43	19	4.0
	e(S)		45	00	4.7
5	(S)	14	02	04	5.0
9	eP	21	37	22	
	iS		39	54	u 3.3
9	P?	22	19	34	
10	eP	07	58	07	
	eS		59	14	2.6
10	P	08	32	48	
	S		34	02	4.3
10	eP	17	14	24	u 12
	e(S)		15	02	5.0
12	eP	01	50	25	
	eS		51	56	2.8
13	S	17	22	00	3.1
15	e(S)	11	07	04	
15	iP	23	38	30	
	S			52	27
17	(S)	05	58	37	2.8
18	eS	12	41	32	2.3
	e			43.7	

Date	Phase	h	m	s		Az
OCT 18	iP	17	47	44	d	
	S			53		30
18	eP	22	33	56		
	eS		35	51		4.4
18	iP	22	43	23		2.8
21	iP	21	26	24		4.0
23	iP	09	39	27	d	
	eS?			44		>>
23	iP	10	27	04-	d	4.1
	S			13		25
27	eP	20	00	56		40+
NOV 1	eP	02	58	09		2.5
	eS		59	05		5.0
1	iP	16	44	23	d	12
	S			58		
5	P	20	23	51		3.4
	S		24	01		27+
8	eP	01	26	17		1.0
	(P*)			24		3.6
	eS			51		10

At 03h 52m on Nov 10, a swarm of local earthquakes started, masking all other activity. Following an eruption of steam and mud from the Green Lake at 17h 56m on Nov 20, the island was evacuated from Nov 23 until Dec 6.

DEC 10	iP	07	32	30		
12	eP	19	45	49		
	eS		46	35		
DEC 13	eP	00	14	38		1.3
	eS		15	24		3.2
13	iP	09	12	27	u	8.0
	eS			40		
13	iP	09	31	36	d	
	eS			48		
16	S	19	23	42		1.5
18	iP	03	44	43	d	
18	iP	08	39	13	u	
19	iP	06	42	22	u	5.0
	S		43	05		10
19	iP	14	31	48	u	1.0
	S		32	19		5.0
20	iP	11	28	42	u	2.0
	eS		30	25		1.5
24	P	23	50	14		2.5
25	P	10	46	30		3.0
	S			47(10)		
28	P	16	17	59		
	i			18	02	
30	P	16	36	05	u	1.7
30	P	18	24	51		
30	P	21	32	37		
	S			34(00)		
31	iP	06	09	14		

HALLETT

Original seismograms recorded at Hallett were lost as a result of fire at the base early in February. The readings printed below are preliminary ones sent by radio to Wellington. In the absence of the seismograms it has not been possible to revise them. Some may be defective as a result of errors in radio transmission, but they are printed as received.

Date	Phase	h	m	s
JAN 2	eP	03	46	51
	eP	19	25	18
	eP	22	53	14
3	iP	09	25	42
JAN	eP	21	53	23
	eP	21	55	52
4	eP	02	46	11
	eP	11	38	29

	Phase	h	m	s	Date	Phase	h	m	s
4	eP	17	52	47	JAN 16	e	09	27	18
						eP	11	01	40
5	eP	10	20	45		eP	12	22	43
	eP	13	32	08		iP	20	35	10
	eP	18	44	17		eP	23	19	52
	eP	23	53	11					
					17	eP	00	12	37
6	iP	10	33	53		iP	11	13	26
	eP	20	13	07		iP	19	39	20
						e	22	01	07
7	eP	05	22	17					
	eP	09	34	12	FEB 2	eP	11	17	34
						iP	15	2-	07
8	eP	03	45	46		eP	19	04	19
	iP	17	28	33					
	iP	22	43	41	3	eP	05	02	41
						eP	07	37	03
9	eP	09	34	27		eL	13	12	06
	eP	18	31	04					
	eP	16	43	14	4	eP	22	11	57
10	eP	05	09	25	5	eP	11	48	56
	eP	16	59	56		eP	16	35	31
	iP	22	15	07					
					6	eP	22	54	25
11	eP	04	22	35					
	eP	10	29	27	7	eP	07	36	17
	eP	21	16	16		eP	11	23	56
						iP	23	14	27
12	eP	04	22	26					
	e	10	24	07	8	eP	11	38	35
	iP	18	17	44		eP	14	43	37
	eP	16	19	06					
	eP	21	22	28	9	eP	05	02	00
						eP	09	17	45
13	e	18	59	12		iP	13	22	52
						eP	14	23	09
14	e	15	20	19					
	eP	17	34	39	10	eP	05	57	36
						eP	14	23	15
15	e	07	57	19					

SCOTT BASE

The Readings for Scott Base have been tabulated by computer. In addition to the data given for stations inside New Zealand, values of $\log_{10}$ A/T for the short period vertical component are given. In 1965 and subsequent years, this format will be used for all distant readings.

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 01	12 21 55.4	6.8S 129.8E	96KM	5.7 BANDA SEA		SBA 74
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 12 33 20				
	E(PCP)	ZNE 34 04				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 01	15 49 47.9	55.9S 27.1W	33KM	5.4 S SANDWICH IS		SBA 46
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 15 58 12		-1.56		5.3

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 01	17 26 43.5	45.4N 151.9E	45KM	5.6 KURILE IS		SBA 123
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EPP	ZN 17 47 12				
	EPS	N 57 41				
	ESS	NE 18 03 07				
	E	N 13 07				
	ELR	ZNE 24 12			3 19 3 19	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 01	20 02 32.5	3.2S 139.7E	33KM	6.3 WEST NEW GUINEA		SBA 76
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 20 14 18		-1.13		5.9
	ELR	ZN 40 58				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 02	19 15 23.9	8.4S 157.1E	33KM	5.5 SOLOMON IS		SBA 70
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 19 26 33		-1.50		5.7
	E	ZNE 40				
	S	E 35 48				
	E(LQ)	NE 43 57				
	ELR	N 49 36				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 03	07 14 54.2	7.1S 129.0E	157KM	BANDA SEA		SCA 73
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA E(*PP)	ZNE 07 26 54				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 03	21 24 56.3	20.4S 178.2W	520KM	5.3 FIJI IS		SBA 58
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 21 34 01.8 U		-1.13		5.3
	*PP	Z 35 53				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 03	21 48 05.6	53.0S 21.2E	33KM	S OF AFRICA		SBA 48
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 21 56 40		-1.37		5.6
	ES	N 22 03 42				
	ELR	ZNE 11 06			1 24 1 24	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 04	03 41 22.6	3.4S 149.2E	33KM	4.3 BISMARCK SEA		SBA 75
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA ES	NE 04 02 44				
	ELR	ZNE 16 46				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 05	10 11 53.0	26.6S 175.7W	31KM	5.1 S OF TONGA IS		SBA 52
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 10 21 14		-1.33		5.7
	E*PP	ZNE 25				
	EPCP	Z 22 27				
	ES	N 28 45			2 10	5.9

	ELR	ZNE 36 50				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	16 25 52.6	61.4S 154.9E	33KM	BALLENY IS		SBA 17
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 16 29 45	USE		7 14	5.7
	ES	ZNE 32 42				
	ELR	ZN 33 53			48 19 53 17	
	ELQ	E 08				
	MAX	E 35 42				163 11

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	18 33 54.7	8.0S 74.5W	150KM	5.2 PERU-BRAZIL BORDER		SBA 88
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 18 46 30.5		-1.48		5.5
	E*PP	ZNE 47 10				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	23 46 10.7	52.3S 28.6E	33KM	S OF AFRICA		SBA 48
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 23 54 45.0 UNE		-0.39	9 8	6.6
	PP	ZNE 56 37			12 7	6.9
	S	ZNE 24 01 38			25 20	6.7
	ESS	ZNE 04 50			17 16	
	LR	ZNE 08 07			35 23 39 18	42 16

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
16	23 45 23.4	50.9N 157.3E	33KM	5.6 KURILE IS		SBA 129
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EPP	ZN 24 06 30				
	SKKS	N 13 29				
	ESP	Z 16 38				
	ESS	NE 23 40				
	ESSS	Z 28 21				
	LQ	E 38 30				
	ELR	ZNE 45 00			5 29 4 27	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
17	02 08 19.1	56.8S 147.7E	33KM	W OF MACQUARIE IS		SBA 22
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA ES	ZNE 02 17 18				
	ELR	ZNE 19 22			4 9 7 8	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
17	05 18 24.5	58.8S 149.4E	33KM	W OF MACQUARIE IS		SBA 20
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	NE 05 22 54			3 14	5.4
	E	ZNE 23 00				
	ES	NE 26 30				
	E	ZNE 47				
	ELR	Z 27 49			9 30	
	EMAX	ZNE 32			14 9 22 10	57 8

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
17	10 40 42.9	3.0S 139.0E	47KM	5.0 W NEW GUINEA		SBA 76
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZN 10 52 29.1 U		-1.23		5.8
	ELR	ZNE 11 18				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
17	12 32 54.5	56.8S 26.1W	33KM	5.6 S SANDWICH IS		SBA 45
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 12 41 14				
	ES	NE 47 56				
	ESS	ZNE 51 09				
	ELQ	E 56				4 22
	ELR	ZNE 56 51				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 07	15 06 47	15.2S 167.2E	99KM		NEW HEBRIDES IS				SBA 63
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EP	ZNE 15 16 36		-1.50					5.6
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 08	04 23 46.3	5.0S 144.3E	72KM	5.1	NEW GUINEA				SBA 74
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	E(P)	Z 04 35 11							
	E•PP	Z 35							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 08	22 30 49.7	3.7S 119.4E	90KM	5.2	CELEBES				SBA 78
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EP	ZNE 22 42 42				3 6			6.3
	ES	ZNE 52 40							
	ESSS	N 23 01 40							
	ELR	ZE 09 34							
	MAX	ZE 18				3 17			1 17
8 KILLED EXTENSIVE DAMAGE AT PINRANG									
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 09	18 31 52.4	45.5N 150.9E	40KM	5.6	KURILE IS				SBA 123
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EPKP	Z 18 50 46							
	EPP	ZN 52 36							
	ESP	ZNE 19 02 32							
	EPPS	ZNE 04 12							
	ESS	NE 09 14							
	LQ	E 23 18							8 44
	ELR	ZNE 29 10				4 26	4	24	
	ELQ	ZNE 10				4 26	4	24	
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 10	04 50 53.4	42.0N 142.6E	33KM	5.5	HOKKAIDO				SBA 120
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EPS	ZN 05 21 06							
	ESS	NE 27 36							
	ELR	ZNE 47 54				3 29			
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 10	16 52 36.2	15.4S 175.0W	33KM	5.0	TONGA IS				SBA 63
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EP	Z 17 03 11		-1.50					5.7
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 10	21 52 47.6	6.9S 129.4E	117KM	5.5	BANDA SEA				SBA 74
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	IP	ZNE 22 04 08.9 D		-1.43					5.4
JAN 11	SBA IP	ZNE 04 23 13.8 D		-0.81					
	ELR	ZNE 27 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	06 39 55	15.1S 172.9W	33KM	4.2	SAMOA IS				SBA 64
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EP	Z 06 50 28		-1.65					5.5
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	09 24 15.6	14.1S 169.6E	33KM	4.9	NEW HEBRIDES IS				SBA 64
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EP	Z 09 34 45		-1.82					5.3

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N11	22 02 03	8.6S 123.4E	70KM	5.5	FLORES IS				SBA 73
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	P	ZNE 22 13 25							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N12	11 13 19.6	5.4S 146.8E	229KM	5.6	E NEW GUINEA				SBA 73
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	IP	ZNE 11 24 27.1 U		-0.70					6.1
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N12	12 36 18.7	56.0S 27.6W	33KM	5.5	S SANDWICH IS				SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	IP	ZNE 12 44 42.3 U		-0.98					5.9
		ZNE 45 11							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N13	18 49 09.8	11.6S 166.2E	59KM	5.2	SANTA CRUZ IS				SBA 66
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	IP	ZNE 18 59 53.8 D							
N14 SBA	EP	Z 04 20 58							
	E	ZNE 21 03							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N14	04 17 50.5	28.8S 176.2W	89KM	4.7	KERMADEC IS				SBA 50
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EP	ZNE 04 26 51		-1.30					5.8
	ES	NE 34 05							
	ELR	ZNE 41 46							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N14	08 24 47	3.1S 104.5E	344KM	4.9	SOUTHERN SUMATRA				SBA 81
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EP	Z 08 36 25		-1.73					5.2
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N14	15 38 13.8	5.2S 150.8E	169KM	5.6	NEW BRITAIN				SBA 73
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	IP	ZNE 15 49 28.5 D		-0.52					6.3
	I•PP	ZNE 50 05.4 U							
	IS	ZNE 58 46 D					10	9	4 10 6.5
	IPS	ZNE 59 21							
	ESS	ZNE 16 03 20							
	E	E 10 10							
	ELR	ZN 12 29				5 54			
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N15	18 46 32.9	28.4S 178.4W	211KM	4.7	KERMADEC IS				SBA 50
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	P	ZNE 18 55 06.9		-1.03					5.5
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N15	21 36 05.0	29.1N 140.8E	70KM	6.4	S OF HONSHU				SBA 108
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EPP	Z 21 54 50							
	ESP	ZNE 22 03 58							
	ESS	ZNE 09 48							
	ESSS	ZN 13 41							
	ELQ	NE 20 21							3 42
	ELR	ZN 27 21				4 32	4	28	
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
N18	12 04 40.0	23.1N 120.5E	33KM	5.9	TAIWAN				SBA 104
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
SBA	EPP	Z 12 22 56							

	EPS	NE	32 17						
	ESS	ZNE	37 52				4 32	6 38	
	ESSS	ZN	42 24						
	ELQ	NE	47 54				7 52	8 50	
	ELR	ZNE	53 18			11 30	8 29	8 26	
110 KILLED 479 INJURED									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 19	06 49 55.9	58.6S 25.1W	33KM		S SANDWICH IS				SBA 44
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		ZN 06 57 59							
ELQ		ZN 07 10 53							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 19	23 23 05.4	18.6S 177.0W	521KM	4.5	FIJI IS				SBA 60
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		Z 23 32 23							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 20	00 15 48.4	30.2S 177.8W	35KM	4.4	KERMADEC IS				SBA 48
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		Z 00 24 31							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 20	17 08 37.4	20.7S 169.9E	141KM	6.1	NEW HEBRIDES IS				SBA 57
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA IP		ZNE 17 18 11	D	0.05	11 10			6.9	
E•PP		Z 46							
IS		ZNE 25 58							
E•SS		Z 27 06							
ESS		Z 30 16							
ELQ		Z 32 41							
ELR		Z 35 10				65 17			

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 20	23 06 26.2	30.0S 177.9W	44KM	5.1	KERMADEC IS				SBA 48
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		ZNE 23 15 06		-1.26				5.7	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 22	23 59 43.6	13.7S 165.9E	33KM	6.0	NEW HEBRIDES IS				SBA 64
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		Z 24 10 13		-1.28	9 10			6.4	
E•PP		ZNE 24							
EPP		Z 13 04			4 10			6.9	
ES		ZNE 19 01				8 12	11 10	6.7	
ESS		Z 22 52							
I		E 23 21							
ELR		ZNE 30 22			14 18	11 18	12 14		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	02 40 00.1	4.2S 154.2E	416KM	4.3	SOLOMON IS				SBA 74
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		ZN 02 50 53		-1.43				5.3	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	15 17 03.0	15.0S 173.1W	33KM	4.5	TONGA IS				SBA 64
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		Z 15 27 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 24	17 17 45.5	38.7N 129.4E	542KM	5.3	SEA OF JAPAN				SBA 118
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA PKP		ZNE 17 35 30							
E(PP)		ZNE 36 56							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
24	21 12 23.2	21.7S 176.2W	32KM	4.8	FIJI IS				SBA 57
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		Z 21 22 05		-1.65				5.5	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
24	22 44 01	7.1S 106.0E	94KM	5.5	JAVA				SBA 77
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		ZNE 22 55 45							
E		Z 56 02							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
25	09 09 33.9	16.3S 71.7W	116KM	6.1	SOUTHERN PERU				SBA 80
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA IP		ZNE 09 21 35.1	D	-0.17	31 4			7.1	
E•PP		ZNE 22 08							
PP		ZNE 24 36			5 7			7.0	
IS		ZNE 31 35						13 10	7.1
ESS		N 37 20							
ELQ		NE 43 17							
LR		ZNE 46 56				14 38	7 40	10 38	
4 INJURED									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
27	02 46 33.4	60.9S 155.2E	33KM		MACQUARIE IS				SBA 17
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		ZNE 02 51 05		-1.50				4.6	
ELQ		NE 53 20							
LR		ZNE 54 12			4 32				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
28	05 43 22.1	6.3S 148.7E	33KM	5.1	NEW BRITAIN				SBA 72
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA EP		ZNE 05 54 46							
ES		ZN 06 04 11							
ELQ		ZN 12 43							
ELR		ZNE 17 42			3 18				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
28	14 09 17.1	36.5N 70.9E	207KM	6.1	HINDU KUSH				SBA 127
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA PKP		ZNE 14 27 55.9							
•PPKP		Z 28 48							
(•SPP)		ZE 30 39							
PS		ZE 39 34							
PPS		Z 41 07							
SCSPKP		ZE 42 32							
I		Z 45 56							
SS		NE 46 50							
ESSS		ZNE 51 14							
ELQ		E 15 00 18							
ELR		ZN 08 17			17 88				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
35	11 18 16.3	30.4S 177.9W	114KM	4.9	KERMADEC IS				SBA 48
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA P		Z 11 26 54		-1.03				5.9	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
35	11 30 16.2	36.4N 140.9E	52KM	5.4	JAPAN				SBA 115
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG	
SBA E(SKS)		N 11 55 05							
E(PS)		ZNE 59 06							
ESS		NE 12 05 48							
ELQ		NE 17 06						4 56	
ELR		ZNE 26 22			3 34	3 34			

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 05	11 35 18.6	19.7S 179.8W	414KM	5.5 FIJI IS		SBA 59
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 11 44 36		-0.76		5.7
	E(PCS)	ZNE 49 20				
	ES	NE 52 08			5 7	6.2

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 06	13 07 25.2	55.7N 155.8W	33KM	5.6 S OF ALASKA		SBA 135
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 13 26 42				
	EPP	ZN 29 24				
	ISKP	ZNE 30 14	U		25 21	
	ESKKS	ZNE 36 15				
	SKSP	ZN 39 18				
	I	ZN 42 33			12 25	
	ESS	ZNE 47 28				
	ESSS	ZNE 52 32				
	ELQ	NE 14 02 06				
	EL	Z 05 00				24 58
	MAX	ZNE 15 09			31 20 19 20	29 18

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 07	09 34 27.2	14.8S 167.5E	159KM	4.4 NEW HEBRIDES		SBA 63
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 09 44 40		-1.35		5.6

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 08	18 54 51.2	28.4S 62.6E	33KM	INDIAN OCEAN RISE		SBA 65
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EL	ZE 19 26 30				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 09	02 00 07.3	16.5S 179.2W	480KM	5.3 FIJI IS		SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 02 09 41		-0.85		5.8
	*PP	Z 11 28				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 10	23 45 58.4	59.8S 150.3E	33KM	W OF MACQUARIE IS		SBA 19
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA S	N 23 54 04				
	EL	ZNE 55 30				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 12	20 31 53.2	3.5S 146.6E	33KM	5.4 BISMARCK SEA		SBA 75
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 20 43 49				
	S	ZNE 53 15				
	SS	ZN 57 50				
	LQ	NE 21 03 52			13 58	27 52
	LR	ZN 07 25			8 30 5 24	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
FEB 12	22 33 59.2	15.3S 174.4W	33KM	5.0 TONGA IS		SBA 63
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 22 44 33				
	S	NE 53 10				
	LQ	NE 23 00 24				
	LR	ZNE 03 02			4 19 4 18	
FEB 13	SBA ES	NE 10 36 46				
	LQ	NE 38 08				
	ELR	Z 39 40				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
14	16 29 45.0	5.1S 151.7E	55KM	6.0 NEW BRITAIN REGION		SBA 73
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 16 41 12		-0.59	4 22	6.2
	ES	ZNE 50 37			7 33 8 18	6.5
	ESS	ZNE 55 10			10 37	
	ESSS	ZNE 58 46				
	ELR	ZN 17 03 54				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
22	01 47 32.1	36.9S 176.9E	203KM	5.1 N ISLAND, N Z		SBA 41
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 01 54 58		-0.99		5.5

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
23	08 50 35.0	30.1S 177.3W	33KM	5.1 KERMADEC IS REGION		SBA 48
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 08 59 22		-1.65		5.3
	I	ZNE 26				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
25	00 34 32.0	44.7S 37.5E	33KM	6.7 PRINCE EDWARD IS		SBA 54
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA PS	E 00 51 45				
	ELR	ZNE 59 57				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
12	19 32 41.7	18.9S 174.8W	105KM	5.3 TONGA ISLAND		SBA 60
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 19 42 37.4	D	-0.96		6.2
	(*PP)	ZN 43 11				
	S	E 50 43				
	(*SS)	NE 51 45				
	ELQ	ZE 57 28				
	ELR	ZN 20 00 09				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
13	21 39 31.0	4.8N 125.5E	77KM	4.9 TALAUD IS		SBA 86
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 21 52 01				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
14	22 34 06.3	6.8S 129.8E	108KM	5.2 BANDA SEA		SBA 74
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 22 45 29				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	06 00 41.3	45.2S 96.4E	40KM	5.5 S E INDIAN RISE		SBA 42
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZE 06 08 32				
	ES	ZE 14 58				5 11 6.2
	ELQ	ZN 18 23				
	ELR	ZNE 20 27			8 20 7 17	12 20

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	10 05 37.2	11.2S 162.2E	38KM	5.1 SOLOMON IS		SBA 67
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 10 16 27				
	S	E 25 26				
	ELR	ZNE 36 46				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	20 31 57.4	16.4S 173.0W	33KM	4.7 TONGA IS		SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 20 42 25				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 06	18 57 16.1	6.1S 154.4E	74KM	5.8 SOLOMON IS		SBA 72
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA ELR	Z 19 31 07				5.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 08	01 35 48.1	44.0S 168.4E	33KM	5.6 S ISLAND NZ		SBA 34
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	NE 01 42 38				
	ES	ZE 48 09				
	ELQ	ZNE 50 29				
	ELR	ZNE 52 03			18 17 18 16	17 16
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 10	13 59 54.8	1.9N 127.5E	117KM	5.6 HALMAHERA		SBA 82
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 14 12 06		-0.82		6.1
	ELR	ZNE 39 28			3 52	
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 10	23 10 24.4	6.8S 129.4E	141KM	5.1 BANDA SEA		SBA 74
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 23 21 42		-1.83		5.0
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 11	01 06 00.4	1.8N 127.1E	58KM	5.6 HALMAHERA		SBA 82
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 01 18 17.7		-0.54		6.6
	S	NE 28 30				
	ELQ	NE 41 09				
	ELR	Z 46 03				
MAR 14	SBA EP	ZE 02 57 08		-1.78		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 14	15 05 54.4	13.7S 172.3E	611KM	5.1 NEW HEBRIDES IS		SBA 64
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 15 15 32.0 U		-1.12		5.4
	•PP	Z 17 35				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 15	03 18 14	1.2N 126.2E	43KM	MOLUCCA PASSAGE		SBA 82
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 03 30 30		-1.63		5.5
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 15	22 30 26.0	36.2N 7.6W	27KM	6.2 GIBRALTAR STRAITS		SBA 138
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 22 49 43				
	ESS	Z 23 10 46				
	ELQ	NE 26 50				
	ELR	ZNE 33 32				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 16	14 58 23.4	11.5S 166.1E	69KM	4.8 SANTA CRUZ IS		SBA 66
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 15 09 05.8		-1.48		5.6
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 16	21 39 42.5	20.6S 178.7W	578KM	4.9 FIJI IS		SBA 58
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 21 48 40		-1.23		5.1

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
19	00 10 35	17.3S 175.1W	268KM	4.8 TONGA IS		SBA 61
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 00 20 25.8		-1.47		5.2
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
19	04 37 26.9	52.5N 153.6E	440KM	5.6 N W OF KURILE IS		SBA 130
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EPP	Z 04 58 10				
	ISKP	ZNE 29.3 U			11 6	
	I	Z 05 01 36			9 4	
	ESS	E 15 08				
PHASE RECORDED AT 05 01 36 IS LITTLE SSKP						
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
19	04 45 50.9	21.9S 179.5E	613KM	4.7 S OF FIJI IS		SBA 56
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 04 54 38.0 U		-1.13		5.2
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
19	08 43 40.5	20.3S 178.3W	504KM	4.5 FIJI IS REGION		SBA 58
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 08 52 46.8 U		-1.47		5.0
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
19	09 42 34.9	14.7N 56.3E	33KM	ARABIAN SEA		SBA 109
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA ELQ	ZNE 10 33 29			5 19 1 18	3 18
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
19	21 44 03.8	15.1S 172.6W	33KM	5.6 SAMOA IS REGION		SBA 64
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 21 54 33		-1.19		6.0
	ES	ZNE 22 03 16				
	ELQ	E 09 46				
	ELR	Z 12 30			7 24 7 21	
	EPKPPKP	Z 23 33				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
20	06 55 28.1	2.0S 79.7W	71KM	5.3 NEAR ECUADOR		SBA 93
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 07 08 34.9				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
20	18 55 10.8	7.0S 115.2E	121KM	5.4 BALI SEA		SBA 76
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 19 06 45				
	E•PP	ZNE 07 18				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
20	19 15 16.3	19.8S 173.6W	33KM	4.7 TONGA IS		SBA 59
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 19 25 14		-1.83		5.4
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
21	03 42 19.6	6.4S 127.9E	367KM	6.8 BANDA SEA		SBA 74
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 03 53 18.8 UE		-0.27	9 11	6.5
	•PP	ZNE 54 37				
	S	ZNE 04 02 22				
	ELQ	ZNE 12 22				
	LR	Z 16 07				
	EPKPPKP	Z 20 33				
	ESKPPKP	Z 23 31				
	PKP(3)	Z 40 26			18 36 19 46	
	E	Z 43 30				
PHASE RECORDED AT 04 43 30 IS SKPPKPPKP						

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 21	16 27 11.7	27.6S 177.2W	33KM	5.6 KERMADEC IS		SBA 51
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 16 36 12.8		-0.74		6.3
	I	ZNE 16.0				
	I*PP	ZNE 28.0				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 22	05 32 07.7	2.7S 126.4E	33KM	5.1 CERAM SEA		SBA 78
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 05 44 04				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 22	07 05 39.7	5.5S 77.1W	147KM	5.1 NORTHERN PERU		SBA 90
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 07 18 22		-1.63		5.5
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 22	08 35 06.4	35.7S 72.9W	33KM	5.1 CENTRAL CHILE		SBA 61
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 08 45 21		-1.26		5.9
	EL	NE 09 08 39				
	PKPPKP	Z 14 40				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 23	01 02 36.1	9.3S 108.2W	50KM	S OF JAVA		SBA 80
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 01 14 13				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JAN 23	22 41 15.8	17.6S 123.2E	33KM	WESTERN AUSTRALIA		SBA 64
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 22 51 46		-1.65		5.5
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 25	11 33 48.4	19.7S 175.9W	170KM	4.6 TONGA IS		SBA 59
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 11 43 32		-1.73		5.2
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 25	15 32 26.0	20.1S 168.8E	33KM	4.7 LOYALTY IS		SBA 58
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 15 42 17		-1.71		5.5
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 26	02 04 20.2	11.3N 142.0E	33KM	4.9 S OF MARIANA IS		SBA 90
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 02 17 24				
	ELR	ZN 47 46			3 34	
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 26	12 15 47	6.8S 129.3E	156KM	5.3 BANDA SEA		SBA 74
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 12 27 05		-1.41		5.4
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 26	13 29 56.2	4.4S 104.7W	33KM	4.9 NORTHERN EASTER IS		SBA 85
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 13 42 32		-1.65		5.6
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 27	08 01 30.5	11.5S 166.2E	93KM	4.5 SANTA CRUZ IS		SBA 66
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 08 12 11		-1.71		5.3

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 27	20 22 10.6	23.7S 179.9E	520KM	5.0 S OF FIJI IS		SBA 55
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 20 30 52.0 U				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	03 36 14.2	61.0N 147.8W	33KM	8.5 SOUTHERN ALASKA		SBA 141
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 03 55 40				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	06 53 35.6	58.8N 149.5W	20KM	5.7 GULF OF ALASKA		SBA 139
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 07 13 04				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	07 10 21.4	58.8N 149.5W	20KM	6.1 GULF OF ALASKA		SBA 139
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZN 07 29 47				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	10 35 38.9	57.2N 152.4W	33KM	6.0 KODIAK IS REGION		SBA 137
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA E(PKP)	Z 10 54 40				
	EPKP?	ZN 58				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	11 08 26.0	60.1N 148.4W	15KM	5.7 KENAI PENINSULA		SBA 140
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA E(PKP)	ZNE 11 29 10				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	11 30 09.8	0.5N 122.3E	140KM	5.8 NORTHERN CELEBES		SBA 82
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 11 42 14.0 U		-0.40		6.4
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	12 20 49.8	56.5N 154.0W	25KM	6.1 KODIAK IS REGION		SBA 136
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA E(PKP)	Z 12 40 02				
	EPKP?	Z 09				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	14 47 37.1	60.4N 146.5W	10KM	5.7 SOUTHERN ALASKA		SBA 141
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 15 07 04				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	14 49 13.7	60.4N 147.1W	10KM	5.8 SOUTHERN ALASKA		SBA 141
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 15 08 45				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 28	20 29 08.6	59.8N 148.7W	40KM	5.8 KENAI PENINSULA		SBA 140
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 20 48 30				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 29	02 29 33.7	57.5N 151.3W	20KM	5.6 KODIAK IS REGION		SBA 138
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 01 48 58				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAR 29	06 04 44.5	56.1N 154.3W	30KM	5.6 KODIAK IS REGION		SBA 136
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 06 24 05				

		ESKP	Z		27 31								
		ELR	Z	07 07					4 23				
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 29	10 08 02.4	60.0N 148.6W		20KM	5.3	KENAI PENINSULA							SBA 140
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA E(PKP)	Z	10 27 05										
	EPKP?	Z	27										
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 29	16 40 57.9	59.7N 147.0W		15KM	5.6	GULF OF ALASKA							SBA 140
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	ZN	17 00 24										
	ELR	Z	46 24						4 18				
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 29	21 40 32.7	6.7S 155.1E		68KM	5.3	SOLOMON IS							SBA 71
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE	21 51 48		-0.92								6.1
	ESS	Z	22 05 52										
	EL	Z	11 35										
	ELR	Z	14 34						3 20				
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 30	02 18 06.3	56.6N 152.9W		25KM	5.8	KODIAK IS REGION							SBA 136
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	Z	02 37 28										
	E	ZNE	37										
	ESKP	ZE	40 58										
	ESSS	Z	03 03 22										
	ELR	ZNE	20 37						20 19	16	19		
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 30	07 09 34.0	59.9N 145.7W		15KM	5.6	GULF OF ALASKA							SBA 141
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	ZNE	07 29 06										
	ESKP	Z	32 35										
	EPPS	Z	44 22										
	ESSS	Z	56 06										
	ELR	ZNE	08 13 44						22 17	11	18	15 18	
MAR 30	SBA E?	Z	09 38 23										
	E(P)	Z	34		-1.65								
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 30	12 14 28.4	58.0N 151.6W		25KM	5.0	KODIAK IS REGION							SBA 138
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA ESSS	Z	13 00 16										
	ELR	Z	21 13										
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 30	15 07 49.3	58.7N 149.6W		25KM	5.3	GULF OF ALASKA							SBA 139
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	ZN	15 27 15										
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 30	18 42 03.4	24.2S 176.4W		33KM	4.6	S OF FIJI IS							SBA 54
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z	18 51 31		-1.82								5.3
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 31	00 14 11.7	45.3N 151.0E		60KM	5.3	KURILE IS							SBA 123
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA E+PPKP	Z	00 33 17										
	ELR	Z	01 11 40										

	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 31	09 01 30.2	50.8N 130.2W		15KM		NEAR VANCOUVER IS							SBA 134
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA ELR	ZNE	10 03 15						4 22				
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
MAR 31	17 04 39.0	17.7S 178.8W		540KM	4.4	FIJI IS REGION							SBA 61
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE	17 13 59.9		-1.47								5.0
	E+PP	Z	15 50										
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 1	21 04 01.1	58.2N 150.3W		20KM	5.2	GULF OF ALASKA							SBA 138
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	Z	21 23 27										
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 2	01 11 43.5	5.8N 95.6E		33KM	6.7	NORTHERN SUMATRA							SBA 92
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z	02 24 50										
	I	ZNE	54										
	E	N	26 05										
	ESP	Z	36 57										
	ESS	Z	42 09										
	ESSS	Z	46 03										
	E	Z	49 11										
	ELQ	N	50 10										
	ELR	ZNE	54 21						41 24				
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 2	03 09 45.4	5.5N 95.7E		108KM	5.1	NORTHERN SUMATRA							SBA 91
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z	03 22 42										
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 2	04 43 17.2	25.8S 13.8W		33KM	5.0	S ATLANTIC OCEAN							SBA 77
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	04 55 07		-1.41								5.7
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 2	06 53 31.5	6.9S 125.5E		485KM	4.8	BANDA SEA							SBA 74
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE	07 04 18.0	U	-1.65								5.0
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 2	07 38 30.7	2.0N 125.6E		82KM	5.0	TALAUD IS							SBA 83
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	07 50 47		-1.71								5.3
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 2	11 41 10.7	58.8N 149.6W		20KM	5.4	OF ALASKA							SBA 139
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	Z	12 00 38										
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 2	15 56 52.6	5.8N 125.8E		179KM	5.7	PHILIPPINE IS							SBA 86
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z	16 09 17										
	I	ZNE	21.9										
	H M S	EPICENTRE		DEPTH	MAG								DIST (DEG)
APR 3	04 12 39.7	3.9N 96.6E		52KM	6.1	NORTHERN SUMATRA							SBA 90
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE	04 25 34		-1.03								6.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 03	08 47 34.8	27.9S 178.1W	33KM	4.8 KERMADEC IS				SBA 51
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EP	Z 08 56 33			-1.40				5.6

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 03	09 04 33.5	4.9S 152.1E	82KM	4.8 NEW BRITAIN REGION				SBA 73
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EP	Z 09 15 57			-1.71				5.2

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 03	19 08 15.2	14.9S 167.1E	95KM	4.9 NEW HEBRIDES IS				SBA 63
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA P	ZNE 19 18 33			-1.41				5.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 03	22 33 42.2	61.6N 147.6W	40KM	5.7 SOUTHERN ALASKA				SBA 142
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EPKP	ZNE 22 53 06							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 04	04 54 01.7	60.1N 146.7W	40KM	5.6 SOUTHERN ALASKA				SBA 141
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EPKP?	Z 05 13 23							
EPKP	ZNE 29							
ESSS	ZNE 40 26							
ELR	ZNE 59 08				7 19			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 04	08 40 29.8	56.5N 152.6W	15KM	5.3 KODIAK IS REGION				SBA 136
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EPKP	ZNE 08 59 53							
ELR	ZNE 09 43 12				3 20			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 04	09 10 55.1	56.9N 152.7W	15KM	5.9 KODIAK IS REGION				SBA 137
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA PKP	ZNE 09 30 17							
SKP	Z 33 49							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 04	17 46 08.6	56.3N 154.4W	25KM	5.7 KODIAK IS REGION				SBA 136
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EPKP	Z 18 05 28							
•PPKP	ZNE 37							
SKP	ZNE 08 57							
PKS	NE 09 11							
SKKP	Z 17 52							
SS	NE 26 14							
ESSS	ZN 31 26							
ELQ	E 41 08							
ELR	ZNE 49 58				20 18			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 04	17 59 43.3	56.3N 154.4W	25KM	5.7 KODIAK IS REGION				SBA 136
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA E	ZNE 18 21 06				5 7			
SKP	ZE 22 31							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 04	18 18 02	19.7S 175.3W	57KM	4.8 TONGA IS				SBA 59
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA P	Z 18 27 57			-1.73				5.5

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 04	21 38 14.0	10.5N 122.1E	33KM	5.3 PHILIPPINE IS				SBA 92
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA E(•PP)	ZNE 21 51 30							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 04	22 16 54.5	59.4N 145.2W	10KM	5.1 GULF OF ALASKA				SBA 140
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA ELR	ZNE 23 25 53				3 18			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 05	01 22 13.3	56.2N 153.5W	25KM	5.4 KODIAK IS REGION				SBA 136
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EPKP	ZNE 01 41 29							
SKP	Z 45 04							
ESS	ZNE 02 02 22							
ESSS	ZN 06 58							
ELQ	E 18 23							
ELR	ZNE 24 29				8 19			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 05	01 41 45.0	56.2N 153.3W	35KM	5.2 KODIAK IS REGION				SBA 136
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA E(PKP)	Z 02 01 05							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 05	11 18 38.9	41.9S 83.7W	33KM	5.3 WEST CHILE RISE				SBA 53
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EP	ZNE 11 27 57			-0.98				6.1
ELR	ZNE 43 35				3 22			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 05	19 28 18.1	60.2N 146.7W	15KM	5.8 SOUTHERN ALASKA				SBA 141
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EPKP	ZNE 19 47 40							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 05	22 22 45.0	28.1S 178.2W	31KM	4.5 KERMADEC IS				SBA 50
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EP	Z 22 31 41							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 06	01 22 44.2	23.4S 180.0E	568KM	4.5 S OF FIJI IS				SBA 55
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA EP	Z 01 31 23			-1.82				4.6
APR 06 SBA EP	ZNE 07 13 27			-1.33				
EL	Z 32 10				1 18			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 06	23 43 01.7	5.1S 154.0E	116KM	4.8 SOLOMON IS				SBA 73
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA P	Z 23 54 21			-0.98				5.9
APR 07 SBA EP	Z 10 53 31			-1.53				
EL	ZNE 11 06 24				1 22			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 07	13 18 18.9	0.1N 123.2E	150KM	6.3 NORTHERN CELEBES				SBA 81
		H M S	DIR	LOG•A/T	AZ TZ	AN TN	AE TE	MAG
SBA IP	ZNE 13 30 20.1 U			-1.63				5.2
E•PP	ZNE 31 01							

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 08	19 33 19.0	59.6N 147.0W	15KM	5.1	GULF OF ALASKA	SBA 140
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 19 52 50				
	E	ZNE 54 05				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 08	08 08 11.8	6.8S 68.9E	33KM	6.0	CHAGOS ARCHIPELAGO	SBA 85
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 08 20 49				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 08	19 50 16.8	60.4N 145.9W	10KM	5.3	SOUTHERN ALASKA	SBA 141
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 20 09 47				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 09	13 06 15.2	59.6N 146.1W	15KM	5.1	GULF OF ALASKA	SBA 140
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 13 25 41				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 09	21 54 42.1	18.5S 71.5W	39KM	5.2	NEAR N CHILE	SBA 78
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 22 06 42				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 10	01 08 00.2	58.4N 150.6W	15KM	5.5	GULF OF ALASKA	SBA 138
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 01 27 26				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 11	01 04 30.2	29.0S 178.9W	302KM	5.3	KERMADEC IS REGION	SBA 49
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 01 12 53		-0.99		5.5
	*PP	ZN 13 59				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 12	01 24 31.2	56.6N 152.2W	22KM	5.6	KODIAK IS REGION	SBA 137
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 01 43 40				
	PKP	ZNE 45				
	EPKP	ZN 53				
	EPP	Z 46 39				
	ESKP	ZNE 47 22				
	ESS	NE 02 04 50				
	ESSS	ZNE 09 28				
	ELQ	NE 21 04				
	ELR	ZN 27 07			8 17	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 12	02 33 39	26.5S 113.7W	33KM	4.6	EASTER IS REGION	SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 02 44 03				
APR 12	SBA EP	ZNE 05 41 09		-1.93		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 12	06 00 46.4	13.6S 166.0E	33KM	5.0	NEW HEBRIDES IS	SBA 64
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 06 11 21		-1.58		5.6
	I	ZE 38				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 12	11 10 54.8	33.9S 179.8W	69KM	5.4	S OF KERMADEC IS	SBA 44
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 11 19 00.2	U	-0.78		6.1
	IPCP	ZNE 20 40.8				
	ISCP	Z 24 19.9				
	S	NE 25 34				
	E(SS)	NE 28 47				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 13	03 02 46.3	23.7S 179.0W	360KM	4.5	S OF FIJI IS	SBA 55
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 03 11 42.0	U	-1.56		4.9

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 13	06 23 34.1	19.5S 177.7W	574KM	4.4	FIJI IS REGION	SBA 59
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 06 32 41		-1.41		4.9
	E*PP	Z 34 37				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 13	08 30 03.6	45.3N 18.1E	33KM	5.4	YUGOSLAVIA	SBA 145
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IPKP	ZNE 08 49 38.1	U			
	SKP	ZNE 52 59				
	EL	Z 09 44 49				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 13	11 24 04	7.1S 129.2E	126KM		BANDA SEA	SBA 73
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 11 35 24				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 13	12 25 36.0	59.4N 143.9W	40KM	4.9	GULF OF ALASKA	SBA 140
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA E(PKP)	ZNE 12 45 09				
	ELR	ZNE 13 30 03			4 20	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 13	14 05 00.0	57.6N 151.2W	25KM	5.5	KODIAK IS REGION	SBA 138
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 14 24 22				
	E	ZNE 55				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 13	21 25 33.0	57.5N 153.9W	30KM	5.5	KODIAK IS REGION	SBA 137
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 21 44 54				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 14	01 04 28.8	49.4N 155.5E	60KM	5.2	KURILE IS	SBA 127
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 01 23 27				
APR 14	SBA P	ZNE 04 15 25		-1.65		
	E(L)	ZN 18 42				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 14	05 01 59.1	41.0S 80.8E	33KM		MID INDIAN RISE	SBA 49
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 05 10 52				
	E	ZNE 11 10				
	S	ZE 18 03				
	ELR	ZNE 24 46			4 22 3 22	5 19

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 14	08 58 41.9	17.5S 167.9E	33KM	4.6 NEW HEBRIDES IS				SBA 60
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 09 08 50		-1.56				5.6
	S	E 17 10						
	ELQ	E 24 55						
	ELR	ZN 27 22						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	15 02 28	45.2S 167.0E	33KM	4.9 S ISLAND NZ				SBA 33
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 15 09 02		-1.60				5.2

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	16 52 26.0	37.7S 177.5E	41KM	5.5 E OF N ISLAND NZ				SBA 41
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 17 00 05						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 16	02 35 48.9	21.5S 170.5E	110KM	4.6 LOYALTY IS REGION				SBA 56
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 02 45 20		-1.52				5.6

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 16	14 05 14.9	7.0S 155.7E	78KM	5.4 SOLOMON IS				SBA 71
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 14 16 28		-1.34				5.6

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 16	19 26 57.4	56.4N 152.9W	30KM	5.5 KODIAK IS REGION				SBA 136
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA SKP	Z 19 49 47				5 20		
	E(PPS)	ZN 20 01 12						
	ELR	ZNE 29 52				10 18		

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 17	04 49 30.5	56.4N 152.9W	25KM	5.3 KODIAK IS REGION				SBA 136
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA E(=PPKP)	Z 05 08 57						
	ELR	ZN 53 52				5 20		

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 17	06 00 00.2	6.6S 154.9E	85KM	5.4 SOLOMON IS				SBA 71
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 06 11 14.2 U		-1.23				5.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 17	09 09 07.8	57.7N 151.4W	20KM	5.4 KODIAK IS REGION				SBA 138
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	Z 09 28 32						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 17	14 44 20.8	16.2S 167.7E	65KM	4.2 NEW HEBRIDES IS				SBA 62
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 14 54 36						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 19	03 44 55	55.1S 128.5W	33KM	4.5 S PACIFIC CORD				SBA 32
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 03 51 15		-1.52				5.3
	LQ	NE 57 57					9 28	
	LR	Z 59 05						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 19	03 56 13.7	15.4S 173.7W	51KM	4.2 TONGA IS				SBA 63
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 04 06 40.0 U		-1.41				5.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 19	05 13 01.6	41.7S 83.9W	33KM	5.5 W CHILE RISE				SBA 53
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA E?	Z 05 22 17						
	IP	ZNE 21.0 U		-0.76				6.3
	ELR	ZNE 37 30				7 24		

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 19	08 35 31.6	17.7S 167.8E	15KM	4.6 NEW HEBRIDES IS				SBA 60
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 08 45 40		-1.95				5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 19	14 12 21.9	60.5S 58.3W	33KM	5.4 S SHETLAND IS				SBA 39
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 14 19 47		-0.98				5.8
	ES	ZE 25 59						
	ESS	ZNE 28 38						
	ELQ	NE 29 56						
	LR	ZNE 31 18				37 27	35 17	40 19

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 19	19 41 31.3	13.8S 75.3W	96KM	4.4 PERU				SBA 82
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 19 53 44		-1.68				5.3
	(=Sp)	Z 54 17						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 19	21 34 16.5	7.3S 128.3E	130KM	5.1 BANDA SEA				SBA 73
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 21 45 35						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 20	10 51 13	22.9S 69.2W	78KM	4.6 NORTHERN CHILE				SBA 74
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 11 02 45.2 D		-1.60				5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 20	11 56 41.6	61.4N 147.3W	30KM	5.7 SOUTHERN ALASKA				SBA 142
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZNE 12 16 05						
	E(SKKP)	Z 27 19						
	ELR	ZE 13 02 45				5 18		

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 20	22 30 38.0	4.2S 102.1E	33KM	5.3 SOUTHERN SUMATRA				SBA 81
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 22 42 51						
	E=PP	ZNE 43 02						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 21	05 01 35.7	61.5N 147.4W	40KM	5.4 SOUTHERN ALASKA				SBA 142
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZNE 05 20 56						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 22	19 37 53.2	16.1S 173.4W	33KM	5.0 TONGA IS				SBA 63
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZN 19 48 16		-1.83				5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 22	20 00 22.8	15.5S 167.5E	123KM	5.0 NEW HEBRIDES IS				SBA 62
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 20 10 34.6	U	-0.67				6.4

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 22	23 04 13.8	13.2S 167.1E	218KM	4.0 NEW HEBRIDES IS				SBA 65
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 23 14 30.0	U	-1.45				5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 23	01 31 40.3	6.7S 155.0E	72KM	5.0 SOLOMON IS				SBA 71
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZN 01 42 53						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 23	03 32 50.3	5.3S 134.0E	33KM	6.4 ARCE IS REGION				SBA 75
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 03 44 27.9	D	-0.94	18	10		6.6
	PP	Z 47 11						
	S	ZNE 54 05					16 13	21 12 7.1
	ESS	ZNE 58 42						
	E(LQ)	ZNE 04 02 45						
	ELR	ZNE 06 44			69	21	65 21	37 21

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 23	07 03 21.6	60.8S 19.8W	33KM	5.4 SW ATLANTIC OCEAN				SBA 42
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 07 11 08		-1.56				5.2

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 23	10 32 47.9	6.6S 155.1E	60KM	5.3 SOLOMON IS				SBA 71
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 10 44 03		-1.57				5.4

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 24	05 56 10.1	5.1S 144.2E	106KM	6.3 NEW GUINEA				SBA 74
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 06 07 34		-0.92				6.0
	E*PP	Z 08 00						
	ES	ZNE 17 03						
	EPS	ZNE 16 34						
	ESS	ZE 22 15						
	E	NE 26 08						
	ELQ	NE 27 28					48 60	
	ELR	ZN 31 39					47 48	

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 25	03 48 36	37.3S 94.5W	33KM	4.5 W CHILE RISE				SBA 56
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 03 58 09		-1.73				5.4
APR 25	SBA EP	ZNE 18 56 21		-1.93				

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 26	13 59 27.7	5.8S 105.0E	90KM	5.6 SUNDA STRAIT				SBA 79
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	Z 14 11 19		-1.83				5.1
	PCP	NE 31						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 26	14 52 07.6	20.6S 178.0W	490KM	5.1 FIJI IS REGION				SBA 58
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 15 01 12.6	U	-1.35				5.1
	E*PP	Z 02 52						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 26	22 17 02.2	28.1S 178.2W	37KM	4.1 KERMADEC IS				SBA 50
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA E(P)	Z 22 26 05						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 26	22 34 48.6	60.4S 24.6W	33KM	4.8 S SANDWICH IS				SBA 42
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 22 42 37		-1.74				5.0
	EPCP	ZNE 44 37						
APR 27	SBA P	ZNE 01 49 51		-2.13				
APR 26	SBA EP	ZNE 23 42 49		-1.28				

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 27	01 37 12.1	0.3N 98.1E	33KM	5.3 NORTHERN SUMATRA				SBA 86
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
MAY 24	SBA EP	Z 20 41 57		-1.93				

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 27	04 21 15.9	8.6S 148.1E	110KM	4.5 E NEW GUINEA				SBA 70
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	EP	ZNE 04 32 17						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 27	06 44 25.1	60.1S 151.0E	33KM	5.0 W OF MACQUARIE IS				SBA 19
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZE 06 48 36				8	13	5.8
	E	ZNE 41						
	ELQ	NE 52 03					50 46	56 27
	ELR	Z 46				26	15	

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 27	14 36 18.2	19.8S 170.1E	274KM	NEW HEBRIDES IS				SBA 58
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 14 45 47		-1.95				4.6

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 28	14 55 25.5	11.9S 166.2E	42KM	4.2 SANTA CRUZ IS				SBA 66
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 15 06 09.1		-1.45				5.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 28	15 11 30.4	12.3S 166.1E	72KM	SANTA CRUZ IS				SBA 66
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 15 22 08		-1.93				5.1

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 28	15 52 10.0	12.3S 165.5E	33KM	SANTA CRUZ IS				SBA 66
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZN 16 02 47		-1.95				5.2

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 29	00 44 43.8	32.4S 71.1W	79KM	4.5 NEAR CENTRAL CHILE				SBA 65
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 00 55 16						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 29	04 08 01.2	3.4S 77.7W	56KM	4.3 PERU ECUADOR				SBA 92
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 04 21 06		-2.11				5.4

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 29	04 21 06.7	39.3N 23.7E	33KM	5.1 AEGEAN SEA		SBA 138
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EPKP	Z 04 40 29				
	EPP	Z 43 26				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 29	05 47 45	12.8S 167.1E	150KM	4.1 SANTA CRUZ IS		SBA 65
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 05 58 13		-1.95		5.0
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 29	07 21 30.2	7.2S 155.7E	78KM	5.2 SOLOMON IS		SBA 71
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 07 32 41				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 29	17 37 43.1	58.2S 15.7W	33KM	5.6 SW ATLANTIC OCEAN		SBA 44
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 17 45 49		-1.57		5.3
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 30	16 03 31.4	4.6S 153.2E	78KM	5.2 NEW IRELAND REGION		SBA 74
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 16 14 58		-1.83		5.1
	E	ZNE 15 04				
	E(•PP)	Z 22				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 30	19 03 08.0	11.8S 166.0E	40KM	SANTA CRUZ IS		SBA 66
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 19 13 51				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
APR 30	21 37 04	12.5S 165.1E	33KM	4.0 SANTA CRUZ IS		SBA 65
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZN 21 47 39		-1.82		5.3
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 01	06 01 55.4	60.5N 145.6W	20KM	5.4 SOUTHERN ALASKA		SBA 141
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EPKP	Z 06 21 21				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 01	16 06 12	14.3S 167.1E	95KM	NEW HEBRIDES IS		SBA 64
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA P	Z 16 16 33		-1.73		5.3
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 02	05 15 51.1	4.0S 102.8E	106KM	5.4 SOUTHERN SUMATRA		SBA 81
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 05 27 54		-1.93		5.0
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 02	10 56 00.2	14.9S 167.3E	108KM	4.0 NEW HEBRIDES IS		SBA 63
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 11 06 17		-1.81		5.3
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 02	11 21 30.2	29.7S 61.4E	33KM	INDIAN RISE		SBA 64
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 11 32 08				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
12	16 11 00.2	45.5N 150.3E	35KM	5.7 KURILE IS		SBA 123
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EPKP	ZNE 16 29 53				
	SKP	Z 33 26				
	PKKP	Z 39 46				
	PCPPKP	Z 43 40				
	ESS	NE 48 32				
	E	N 49 01				
	ELQ	E 17 02 31				
	ELR	ZNE 07 28				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
12	21 01 44.8	8.6S 110.4E	102KM	JAVA		SBA 75
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA P	ZNE 21 13 14		-1.95		4.9
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
13	04 43 12.4	17.9S 178.3W	569KM	3.9 FIJI IS REGION		SBA 60
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 04 52 29				
14	SBA EP	ZNE 04 22 12		-1.78		
	EL	ZNE 26 24				
14	SBA EP	ZN 12 20 04				
	E	ZE 13				
	EL	Z 23 35				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
14	12 04 46.1	58.2N 152.3W	30KM	5.3 KODIAK IS REGION		SBA 138
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA E•PP	Z 12 24 19				
14	SBA EP	ZNE 17 11 41		-1.68		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
14	17 05 20	55.8S 4.4W	33KM	5.4 S ATLANTIC RIDGE		SBA 46
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 17 13 46		-1.23		5.7
	ES	NE 20 34				
	E	E 21 54				
	SS	ZNE 23 55				18 25
	ELR	ZNE 26 54			5 18 10 16	7 16
14	SBA EP	ZNE 20 50 03		-2.11		
	I	Z 08.9				
	I	ZNE 19.0				
	EL	ZNE 53 18				
14	SBA EP	ZNE 21 22 30				
	E	Z 41				
	EL	ZNE 25 32				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	03 26 46.1	17.7S 68.9W	33KM	4.9 BOLIVIA		SBA 80
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 03 38 53		-1.93		5.2
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	11 12 52	55.8S 4.3W	33KM	S ATLANTIC RIDGE		SBA 46
		H M S	DIR	LOG•A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 11 21 17		-1.60		5.3

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 06	04 27 02.4	60.7S 25.2W	33KM	S SANDWICH IS					SBA 41
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA (SS)	E 04 43 52							8 25
	ELR	ZNE 48 13							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 06	08 10 47.5	11.1S 162.2E	40KM	5.1 SOLOMON IS					SBA 67
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA S	NE 08 30 35							7 10 6.7
	ELQ	E 38 18							
	ELR	ZNE 41 56				6	16		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 06	15 26 35.5	56.7N 152.1W	15KM	5.4 KODIAK IS REGION					SBA 137
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA ELR	ZNE 16 30 38							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 06	20 31 35	32.9S 178.6W	33KM	KERMADEC IS					SBA 46
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 20 39 59		-1.48					5.4
	ELR	ZNE 53 50							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 07	00 34 57.2	18.2S 176.6W	300KM	5.4 FIJI IS REGION					SBA 60
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 00 44 36.0	D	-1.28					5.3

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 07	03 49 53.8	4.6S 153.5E	53KM	4.6 NEW IRELAND REGION					SBA 74
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA *PP	ZNE 04 01 43							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 07	05 45 29.5	4.0S 34.9E	33KM	6.4 TANGANYIKA					SBA 94
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 05 58 47.2	U	-0.85					6.7
	S	ZNE 06 09 24							
	PS	ZNE 11 16							
	SS	N 16 24							
	ESSS	NE 19 43							
	ELQ	NE 23 23							
	ELR	ZNE 27 12				33	22	26 22	29 18

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 07	07 58 14.3	40.4N 139.0E	33KM	6.2 NEAR HONSHU JAPAN					SBA 119
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IPKP	ZNE 08 17 00.4	U						
	ESKS	N 23 57							
	EPP	ZNE 18 14				13	8		7.5
	EPKKP	Z 27 17							
	PS	ZNE 28 12							
	ESS	ZNE 34 36							
	ELQ	NE 48 15							34 68
	ELR	ZNE 54 36				36	39	22 34	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 07	11 11 04.9	30.6N 137.7E	469KM	5.1 S OF HONSHU JAPAN					SBA 110
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA PKP	ZN 11 28 42							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 07	20 12 49.3	40.5N 139.0E	33KM	5.9 NEAR HONSHU JAPAN					SBA 119
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZNE 20 31 36							

	EPP	ZNE	33 03				4	8	7.0
	EPKKP	Z	41 53						
	EPS	ZN	42 48						
	ESS	NE	49 47						
	ELQ	NE	21 03 30						
	ELR	ZNE	09 14				5	28	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
18	03 35 59.9	32.7S 178.3W	40KM	4.5 S OF KERMADEC IS					SBA 46
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 03 44 20							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
18	03 57 50.1	33.1S 178.3W	47KM	4.3 S OF KERMADEC IS					SBA 45
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 04 06 08		-1.81					5.0

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
18	04 10 31.9	32.8S 178.4W	33KM	4.0 S OF KERMADEC IS					SBA 46
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 04 18 53							
18	SBA EP	Z 05 18 21							
18	SBA EP	ZNE 14 36 48		-1.93					

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
18	16 21 49.8	56.7N 154.0W	25KM	5.3 KODIAK IS REGION					SBA 136
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	Z 16 41 12							
	ELR	ZNE 17 24 18							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
18	20 36 54.1	24.2S 69.3W	78KM	4.9 NORTHERN CHILE					SBA 73
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 20 48 17		-1.60					5.3

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
18	21 34 40.6	60.8N 143.6W	35KM	5.4 SOUTHERN ALASKA					SBA 142
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZE 21 54 04							
	(PKP)	ZN 11							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
18	21 45 47	1.7N 126.5E	33KM	4.7 MOLUCCA PASSAGE					SBA 82
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 21 58 09.6	U	-1.58					5.6

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
19	02 02 28.8	52.2N 169.6W	25KM	5.1 FOX IS ALEUTIAN IS					SBA 131
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZN 02 21 38		-2.13					
	E	ZE 22 38							
	E(SKP)	Z 25 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
19	12 13 04.9	21.6S 174.6W	33KM	4.5 TONGA IS					SBA 57
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 12 22 50		-1.95					5.2

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
19	13 48 05.3	8.1N 123.2E	60KM	5.7 PHILIPPINE IS					SBA 89
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 14 00 54							

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 09	15 10 12.1	40.7N 139.0E	25KM	5.1 NEAR HONSHU JAPAN		SBA 119
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 15 28 57				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 09	18 16 17.5	13.7S 166.6E	41KM	5.0 NEW HEBRIDES IS		SBA 64
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 18 26 49.2 U		-1.07		6.1
	(*SP)	Z 27 08				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 09	21 07 41.6	9.2S 156.7E	26KM	5.4 SOLOMON IS		SBA 69
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 21 18 46		-1.12		6.1

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 10	06 27 45.6	4.6S 153.2E	77KM	4.6 NEW IRELAND REGION		SBA 74
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 06 39 14		-1.71		5.2

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 10	07 50 44	1.6N 126.3E	33KM	5.6 MOLUCCA PASSAGE		SBA 82
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 08 03 05		-2.13		5.1

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 11	05 29 16.6	24.6S 179.9E	515KM	4.8 S OF FIJI IS		SBA 54
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 05 37 51		-1.41		5.0
	E*PP	ZNE 39 33				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 11	14 39 04	22.5S 175.8W	50KM	5.3 TONGA IS REGION		SBA 56
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 14 48 39.0 U		-1.35		5.8

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 11	14 57 16.6	4.3N 127.9E	60KM	5.7 TALAUD IS		SBA 85
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 15 09 45.0		-1.52		5.6

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 11	16 53 39.1	6.4N 124.0E	567KM	5.2 PHILIPPINE IS		SBA 87
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 17 05 28				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 11	20 38 11.5	17.1S 174.4W	104KM	4.2 TONGA IS		SBA 61
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZN 20 48 19		-1.83		5.3
MAY 12	SBA EP	ZE 01 24 35		-1.95		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 12	01 37 59.5	26.2S 178.3E	607KM	4.6 S OF FIJI IS		SBA 52
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 01 46 15.7		-1.08		5.4

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 12	10 02 27.1	19.9S 173.9W	33KM	5.1 TONGA IS		SBA 59
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 10 12 24		-1.22		6.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
12	18 17 07.7	19.9S 173.9W	33KM	5.5 TONGA IS		SBA 59
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 18 27 04		-0.88		6.3

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
13	00 07 01.8	14.8S 176.7W	33KM	4.7 FIJI IS REGION		SBA 64
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 00 17 37		-1.78		5.4

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
13	05 25 26.1	32.8S 178.3W	33KM	5.3 S OF KERMADEC IS		SBA 46
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 05 33 45.1 U		-0.98		5.9
	EPS	ZE 40 37				
	ESS	ZE 43 48				
	ELR	ZNE 48 40			16 18	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
13	08 11 00	33.1S 178.0W	15KM	4.4 S OF KERMADEC IS		SBA 45
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 08 19 21				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
13	11 06 16.4	21.8S 179.6W	578KM	4.6 FIJI IS REGION		SBA 56
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 11 15 05		-1.95		4.4

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
13	16 42 48.3	32.7S 178.6W	33KM	5.1 S OF KERMADEC IS		SBA 46
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 16 51 09		-1.29		5.6
13	SBA EP	ZNE 16 58 51		-1.81		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
13	20 37 54	32.4S 178.3W	70KM	4.9 S OF KERMADEC IS		SBA 46
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 20 46 14		-1.48		5.5

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
14	01 05 47.6	32.9S 178.8W	309KM	4.6 S OF KERMADEC IS		SBA 46
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 01 13 38		-1.68		4.7

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
14	02 30 32.2	4.5S 152.9E	32KM	4.9 NEW BRITAIN REGION		SBA 74
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 02 42 05		-1.23		5.8

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
14	20 01 01.0	21.3S 179.3W	606KM	4.7 FIJI IS REGION		SBA 57
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 20 09 52.0		-1.50		4.8

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	10 50 21	3.5S 149.1E	44KM	4.7 BISMARCK SEA		SBA 75
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 11 02 04		-1.90		5.1
	ELR	Z 25 55			3 20	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
15	14 02 41	57.1S 58.9W	33KM	4.9 SCOTIA SEA		SBA 42
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 14 10 36				

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 16	01 58 36.4	10.5S 161.9E	33KM	5.1 SOLOMON IS				SBA 67
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 02 09 30						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 16	08 38 54.0	36.3N 71.5E	122KM	5.3 AFGHANISTAN-USSR				SBA 126
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	Z 08 57 43						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 16	14 33 17	13.6S 165.6E	62KM	4.6 NEW HEBRIDES IS				SBA 64
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZN 14 43 47		-1.95				5.1
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 16	14 44 54	57.6N 151.0W	33KM	5.4 KODIAK IS REGION				SBA 138
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZN 15 04 17						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 16	16 07 46.2	32.8S 178.3W	33KM	5.4 S OF KERMADEC IS				SBA 46
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 16 16 05		-0.79				6.1
	E	NE 26						
	ES	E 22 49						
	EL	ZNE 26 56				10 18		
MAY 17	SBA EP	ZNE 01 20 50		-1.93				
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 17	04 41 44	53.9N 159.7W	33KM	5.5 S OF ALASKA				SBA 133
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	Z 05 00 56						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 17	17 05 24.8	33.2S 178.4W	33KM	4.6 S OF KERMADEC IS				SBA 45
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA E(P)	ZNE 17 13 47						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 17	19 26 20.6	35.2N 35.9W	33KM	5.6 N ATLANTIC RIDGE				SBA 136
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	Z 19 45 41						
	ELR	Z 20 28 48				27 30		
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 18	14 12 10.1	21.2S 174.5W	33KM	5.6 TONGA IS				SBA 57
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 14 21 58		-0.95				6.2
MAY 18	SBA EP	ZNE 18 43 20		-0.80				
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
MAY 19	23 03 41.8	0.7S 80.2W	54KM	5.4 NEAR ECUADOR				SBA 94
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 23 16 56		-1.45				6.1
	ES	N 18 12						
	ESP	Z 29 24						
	SS	NE 34 35						
	ESSS	Z 37 52						
	ELR	ZNE 47 15				8 21		11 20

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
23	04 53 30.3	31.4S 178.2W	33KM	4.8 KERMADEC IS				SBA 47
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 05 02 05		-1.29				5.6
	EPCP	Z 03 37						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
23	06 01 14.8	2.7S 139.3E	61KM	5.8 NEAR W NEW GUINEA				SBA 76
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 06 13 00.6 U		-0.35				6.6
	E(PS)	NE 24 12						
	ELR	ZNE 38 29				5 26		
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
22	15 36 01.5	59.0N 153.5W	15KM	5.3 SOUTHERN ALASKA				SBA 139
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZNE 15 55 24						
	ESKP	ZNE 59 01						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
22	00 26 44.8	34.7S 179.6W	58KM	4.5 S OF KERMADEC IS				SBA 44
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 00 34 46		-1.56				5.3
22	SBA EP	ZNE 01 54 22		-1.93				
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
22	04 59 26.2	20.3S 169.4E	144KM	4.7 NEW HEBRIDES IS				SBA 58
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 05 09 02.9 D		-1.07				6.0
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
23	11 22 33.3	28.6N 139.4E	409KM	5.1 BONIN IS REGION				SBA 107
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA PKP	Z 11 40 13						
23	SBA EP	ZNE 13 43 03		-1.82				
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
23	21 31 03.4	18.4S 69.2W	128KM	4.7 NORTHERN CHILE				SBA 79
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 21 42 55						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
24	04 13 05.3	22.6S 174.1W	33KM	5.7 TONGA IS REGION				SBA 56
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 04 22 45.0 D		-1.03				6.1
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
24	10 31 24.1	34.3N 141.1E	33KM	5.2 E OF HONSHU JAPAN				SBA 113
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZNE 10 50 00						
	EPP	ZNE 49						
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
24	18 01 34.8	23.2S 71.6W	33KM	4.5 OFF NORTHERN CHILE				SBA 74
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 18 13 07		-1.81				5.3
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
24	20 32 36.3	19.1S 177.9W	441KM	3.6 FIJI IS REGION				SBA 59
		H M S	DIR	LOG=A/T	AZ	TZ	AN TN	AE TE MAG

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 24	20 57 38.3	15.9S 167.6E	29KM	4.4 NEW HEBRIDES IS					SBA 62
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 21 07 58							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 24	22 22 27.6	37.0S 177.8E	149KM	4.8 E OF NORTH IS NZ					SBA 41
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 22 30 02							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 25	04 59 39.6	30.6S 178.0W	33KM	4.3 KERMADEC IS REGION					SBA 48
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 05 08 18		-1.81					5.1
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 25	08 32 49.0	15.7S 174.9W	269KM	4.5 TONGA IS					SBA 63
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 08 42 48		-1.65					5.1
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 25	19 44 07.0	9.1S 88.9E	33KM	5.5 S INDIAN OCEAN					SBA 79
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 19 56 08		-0.82					6.3
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 26	09 40 57.9	16.5N 145.9E	94KM	5.5 MARIANA IS					SBA 95
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 09 54 10							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 26	10 59 12.3	56.2S 27.8W	120KM	5.9 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 11 07 23.9 U							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 26	12 23 28	56.1S 27.7W	149KM	5.4 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 12 31 38		-1.41					5.3
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 26	15 42 34.0	56.1S 27.4W	82KM	5.4 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 15 50 49		-1.93					5.0
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 26	23 43 26	56.1S 26.6W	153KM	5.2 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 23 51 36.8 U		-1.63					5.1
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 27	00 56 42.5	56.1S 27.6W	105KM	5.6 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 01 04 57.3 U		0.10					7.0
	SCP	Z 10 12							
	ES	ZNE 11 34							
	ESS	ZE 14 58							
	ELR	ZNE 18 24							
MAY 27	SBA P	ZNE 02 47 15		-1.82					
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 27	06 30 57.7	56.2S 27.4W	116KM	5.8 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 06 39 11.0 U		-0.41					6.5
	SCP	Z 44 27							

	ELR	Z 52 54							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 27	09 50 03	55.9S 27.4W	52KM	5.8 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 09 58 24		-1.60					5.3
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 27	11 20 26.8	18.4S 173.1W	33KM	4.6 TONGA IS					SBA 60
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 11 30 35		-1.93					5.3
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 27	15 48 17.3	21.0S 174.5W	33KM	4.1 TONGA IS					SBA 58
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 15 58 04							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 27	19 02 02.4	56.4S 28.4W	61KM	6.0 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	Z 19 10 22		-0.96					5.9
	E	Z 14 12							
MAY 27	SBA P	ZNE 23 45 05		-1.71					
MAY 28	SBA P	ZNE 01 57 54		-1.58					
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 28	03 57 19.0	16.8S 177.7W	388KM	4.4 FIJI IS REGION					SBA 62
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	Z 04 06 48		-1.95					4.7
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 28	12 49 57.5	13.4S 74.9W	103KM	5.2 PERU					SBA 83
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 13 02 13		-1.71					5.2
	E	Z 51							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 28	16 18 04.2	58.3N 150.6W	25KM	5.4 GULF OF ALASKA					SBA 138
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	Z 16 37 29							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 28	23 28 27.9	1.6N 127.2E	103KM	6.3 HALMAHERA					SBA 82
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 23 40 38.9 U		-1.23					5.7
MAY 29	SBA IP	ZNE 01 14 53.1 U		-1.73					
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 29	05 35 10.6	32.4S 67.3W	132KM	4.4 MENDOZA ARGENTINA					SBA 65
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 05 45 42		-2.13					4.9
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 29	07 22 01.2	21.9S 171.5E	33KM	LOYALTY IS REGION					SBA 56
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 07 31 43							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 29	09 04 27.1	56.2S 27.7W	33KM	5.8 S SANDWICH IS					SBA 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	Z 09 12 49.0 U		-1.29					5.6
	(SCP)	ZN 18 04							

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 29	10 17 34.5	60.2S 146.3W	5KM	5.6	SOUTHERN ALASKA	SBA 23
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 10 37 00				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 29	12 25 16.9	18.6S 177.8W	462KM	4.2	FIJI IS REGION	SBA 60
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 12 34 37		-1.95		4.6
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 29	14 45 50	56.1S 27.9W	170KM	5.2	S SANDWICH IS	SBA 46
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 14 53 57		-1.93		4.7
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 29	15 33 06	56.3S 28.0W	120KM	5.7	S SANDWICH IS	SBA 46
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 15 41 17.7 U		-0.94		5.9
	^^^^	Z ^^ ^^				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 29	18 35 02.3	26.2S 178.3E	614KM	5.4	S OF FIJI IS	SBA 52
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 18 43 18.9 U		-0.89		5.6
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 29	18 42 19.3	26.2S 178.3E	605KM	3.9	S OF FIJI IS	SBA 52
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 18 50 36.3 U		-1.18		5.3
	E(SCP)	Z 54 36				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 29	19 01 57.0	26.1S 178.3E	613KM	4.1	S OF FIJI IS	SBA 52
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 19 10 13.7 U		-1.23		5.3
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 29	20 09 01	0.5S 134.7E	33KM	5.1	W NEW GUINEA	SBA 79
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 20 21 08		-1.61		5.5
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 30	14 30 45.3	36.2N 141.1E	49KM	5.4	NEAR HONSHU JAPAN	SBA 115
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 14 49 23				
	ESP	Z 15 00 10				
	ELR	Z 26 58			3 36	
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
MAY 31	00 40 36.4	43.5N 146.8E	48KM	6.3	KURILE IS	SBA 122
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IPKP	ZNE 00 59 26.0 U				
	(*PPKP)	Z 44				
	EPP	Z 01 01 01				
	SKS	NE 06 26				
	SKKS	N 07 57				
	IPKKP	ZNE 09 27.2 U				
	ESP	ZNE 10 52			12 18	
	(SKKP)	ZNE 13 19				
	ESKKS	Z 16 36				
	ESS	NE 17 30				
	ELQ	NE 31 09				
	ELR	ZNE 37 01			14 22	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AY 31	10 30 25.0	19.2N 69.4W	83KM	5.0	DOMINICAN REPUBLIC	SBA 116
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 10 47 03.7		-1.63		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AY 31	17 15 26.8	13.6S 172.1E	73KM	5.0	NEW HEBRIDES IS	SBA 64
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 17 25 56.0 D		-1.14		5.9
	ELR	ZN 46 07			7 36	
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AY 31	18 34 16	13.3S 171.8E	111KM	4.6	NEW HEBRIDES IS	SBA 65
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 18 44 48		-1.50		5.5
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 01	06 05 07.6	14.6S 167.4E	176KM	5.2	NEW HEBRIDES IS	SBA 63
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 06 15 19.8		-0.74		6.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 02	16 09 23.5	59.7N 144.4W	15KM	5.1	GULF OF ALASKA	SBA 141
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 16 28 51				
JN 02	SBA E	E 16 38 31				
	EL	ZNE 43 50				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 02	23 12 37.8	14.7S 167.0E	82KM	4.7	NEW HEBRIDES IS	SBA 63
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 23 22 59.6 U		-1.17		5.9
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 03	00 44 03	55.4S 24.8W	33KM	5.5	S SANDWICH IS	SBA 47
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 00 52 31				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 03	17 54 14.7	18.8S 173.7W	33KM	4.8	TONGA IS	SBA 60
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 18 04 17		-1.08		6.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 04	00 15 40	33.5S 177.8W	31KM	4.3	S OF KERMADEC IS	SBA 45
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA E	ZNE 00 24 15				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 04	10 18 15.3	7.8S 117.6E	47KM	5.2	BALI SEA	SBA 74
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EP?	ZNE 10 29 40				
	E	ZNE 57				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 04	11 17 11.8	6.1S 149.9E	54KM		NEW BRITAIN REGION	SBA 72
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 11 28 33		-1.81		5.2
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 04	11 53 50	14.7S 176.0W	303KM	3.9	FIJI IS REGION	SBA 64
		H M S	DIR	LOG=A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 12 03 50.9 U		-1.73		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 04	12 56 02.6	4.9S 134.2E	33KM		W NEW GUINEA	SBA 75
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 13 07 42				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 05	01 03 26	25.6S 176.5W	33KM	4.4	S OF FIJI IS	SBA 53
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 01 12 42.1 U		-1.73		5.3

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 05	04 08 30.6	56.2S 27.5W	33KM	5.3	S SANDWICH IS	SBA 46
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 04 16 50		-2.12		4.7

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 05	04 44 48.6	47.8N 27.3W	33KM	4.7	N ATLANTIC RIDGE	SBA 149
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 05 04 32				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 05	09 13 20.0	16.2S 177.3E	25KM	5.2	FIJI IS	SBA 62
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 09 23 33		-1.63		5.6
	E	ZN 29 32				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 05	09 50 35.0	60.4N 146.0W	15KM	5.2	SOUTHERN ALASKA	SBA 141
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 10 10 07				
JUN 05	SBA EP	ZN 16 34 45		-1.93		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 05	22 06 53.0	58.1N 152.1W	15KM	5.0	KODIAK IS REGION	SBA 138
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 22 26 14				
	ESKP	Z 29 48				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 06	02 14 18	16.8S 167.4E	41KM	4.4	NEW HEBRIDES IS	SBA 61
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 02 24 25				
	E.PP	ZNE 38				
JUN 06	SBA EP	ZNE 19 09 31		-1.38		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 06	19 07 51.4	26.6S 114.4W	33KM	5.8	EASTER IS REGION	SBA 62
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 19 18 07		-1.29		5.9
	A	Zaa aa aa				
	LQ	N 33 37				
	LR	ZE 38 30			5 18	
	EPKPPKP	ZNE 47 23				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 07	08 22 55.9	3.0S 130.3E	33KM	4.8	CERAM	SBA 77
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 08 34 50		-2.12		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 07	13 07 53.2	18.4S 173.7W	33KM	4.5	TONGA IS	SBA 60
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 13 17 57		-1.95		5.2

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 07	20 10 15.9	30.4S 67.6W	29KM	5.2	SAN JUAN ARGENTINA	SBA 67
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA E(*SP)	ZNE 20 21 23				
	ELQ	NE 37 50			3 40	3 42
	ELR	ZE 42 51				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 07	20 30 55.5	45.3N 150.9E	33KM	5.0	KURILE IS	SBA 123
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 20 49 47				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 08	02 26 42.3	22.1S 179.5W	554KM	4.7	S OF FIJI IS	SBA 56
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 02 35 32		-1.81		4.6

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 08	04 22 30.1	51.6N 175.9W	27KM	4.9	ANDREANOF IS	SBA 130
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA ESKP	Z 04 44 56				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 09	15 02 21.6	19.2S 177.6W	556KM	4.6	FIJI IS REGION	SBA 59
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 15 11 31		-1.63		4.7

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 10	18 26 54.5	9.4S 117.6E	33KM	5.0	SUMBAWA IS REGION	SBA 73
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 18 38 21		-1.95		5.1

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 10	19 13 52.0	18.0S 167.9E	47KM	5.3	NEW HEBRIDES IS	SBA 60
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 19 23 55		-1.35		5.9

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 10	22 16 44.8	5.0N 127.4E	146KM	5.5	PHILIPPINE IS	SBA 85
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 22 29 08		-0.06	21 5	7.0
	ES	ZNE 39 27				
	ESS	ZN 45 06				
	ELQ	NE 53 40				
	ELR	ZNE 57 30			18 48	
	EPKP(3)	Z 23 15 49				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 10	23 25 09.1	59.1N 153.8W	33KM	5.1	SOUTHERN ALASKA	SBA 139
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 23 44 30				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 11	01 05 20.2	19.5S 175.4W	272KM	4.5	TONGA IS	SBA 59
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 01 14 54		-1.56		5.1

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 11	03 11 56.6	65.5N 168.1W	33KM	4.9	BERING STRAIT	SBA 144
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 03 31 25				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JN 11	10 26 16.8	2.2S 141.2E	67KM		NEAR NEW GUINEA	SBA 77
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 10 38 04.5 D		-1.73		5.3

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 11	10 55 06.2	56.0S 27.3W	33KM	5.8 S SANDWICH IS					SBA 46
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 11 03 28		-1.17					5.7
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 11	13 19 44.0	1.9S 141.0E	40KM	5.3 NEW GUINEA REGION					SBA 77
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 13 31 36							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 11	15 20 48	2.0S 141.2E	33KM	5.7 NEAR NEW GUINEA					SBA 77
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 15 32 39							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 11	17 01 48.5	2.0S 140.8E	18KM	NEAR W NEW GUINEA					SBA 77
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 17 13 42		-0.92					6.2
	ES	NE 23 33							
	ESS	NE 28 34							
	ELR	ZNE 38 49					9 28	7 26	
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 11	17 51 51.5	9.2S 89.5E	33KM	S INDIAN OCEAN					SBA 78
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 18 03 49		-1.95					5.2
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 11	19 42 12.8	2.1S 141.2E	33KM	NEAR NEW GUINEA					SBA 77
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 19 54 04		-1.65					5.4
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 11	21 28 08.2	55.9S 27.7W	135KM	6.1 S SANDWICH IS					SBA 46
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 21 36 21.1 U		-0.65					6.1
	SCP	Z 41 34							
	ES	NE 42 56							
	E(LQ)	E 46 43							
JUN 11	SBA P	ZNE 21 57 31		-1.78					
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	10 50 09.1	2.1S 141.1E	33KM	5.5 NEAR NEW GUINEA					SBA 77
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 11 01 59		-1.30	13	4			6.5
	ES	ZNE 11 52							
	ESS	Z 16 48							
	ELR	ZNE 27 19					8 28		
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	18 12 20.5	26.5S 178.3E	648KM	5.3 S OF FIJI IS					SBA 52
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 18 20 31		-1.22					5.2
	*PP	Z 22 27							
	IPCP	ZNE 24 31.3 U							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	04 20 53.5	53.6N 172.1E	33KM	5.1 ALEUTIAN IS					SBA 131
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	Z 04 40 04							
	ESKP	Z 43 25							
	ELR	ZN 05 21 27					3 40		

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	05 04 23.5	1.9S 141.2E	33KM	5.9 NEW GUINEA REGION					SBA 77
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 05 16 15.1 D		-0.95					6.1
	(*SP)	E 33							
	ELR	ZN 42 46					3 30		
JUN 13	SBA P	ZNE 08 10 01		-0.94					
	ES	N 20 16							
	ESS	Z 25 28							
	ELR	ZNE 35 19					3 23		
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	11 14 26.5	27.3S 178.0W	34KM	4.8 KERMADEC IS					SBA 51
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 11 23 22		-1.08					5.9
	ES	NE 30 46							
	ELQ	E 35 34							
	ELR	Z 38 10							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	14 01 40.2	3.9S 154.3E	474KM	5.5 N OF SOLOMON IS					SBA 74
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 14 12 28.5 D		-1.08					5.6
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	22 31 53.5	27.6S 178.3W	94KM	5.2 KERMADEC IS					SBA 51
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 22 40 43		-0.80					6.3
	ES	NE 48 04							
	E(SS)	E 52 06							
	ELQ	N 53 11							13 15
	ELR	E 55 03							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	23 46 44.5	19.3S 176.5W	285KM	4.4 FIJI IS REGION					SBA 59
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 23 56 17.9 U		-1.65					4.9
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 14	01 19 57.7	27.5S 177.5W	33KM	4.5 KERMADEC IS					SBA 51
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 01 28 55		-1.57					5.4
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 14	12 15 31.3	38.0N 38.5E	8KM	TURKEY					SBA 135
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	Z 12 34 54							
	E	Z 38 22							
	ESS	N 55 23							
	ELR	ZE 13 23 37					3 18		
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 14	23 56 29.9	56.1S 25.0W	33KM	5.3 S SANDWICH IS					SBA 46
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 00 04 54		-1.17					5.7
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 15	00 05 31.1	5.4N 97.0E	33KM	5.5 NORTHERN SUMATRA					SBA 91
		H M S	DIR	LOG$_e$A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 00 18 34		-0.83					6.6
	SKS	NE 29 06							
	(S)	ZE 38							26 9 7.5
	E	N 42 14							
	LQ	E 44 06							
	LR	ZNE 47 44					16 28	13 28	18 17

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 15	02 05 37.1	17.4S 174.9W	148KM	4.5 TONGA IS				SBA 61
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	Z 02 15 39		-1.71				5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 16	04 01 44.3	38.3N 139.1E	57KM	6.1 HONSHU JAPAN				SBA 117
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 04 16 52						
	E	Z 18 44						
	EPKP	ZNE 20 12						
	E	ZNE 43						
	PP	ZNE 21 44						
	ESKKS	Z 28 23						
	ES	Z 29 54						
	EPKKP	ZNE 30 55						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 16	06 53 05.0	38.7N 139.0E	15KM	5.6 HONSHU JAPAN				SBA 118
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZNE 07 11 51						
	EPP	ZNE 13 03						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 16	07 14 57.1	38.5N 139.2E	16KM	5.9 HONSHU JAPAN				SBA 117
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	Z 07 33 43						
	EPP	ZNE 34 47						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 16	08 34 08.7	22.0S 175.8W	33KM	4.6 TONGA IS REGION				SBA 57
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZN 08 43 50						
	*SP	ZNE 44 04						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 16	09 00 41.6	20.0S 170.2E	33KM	4.5 NEW HEBRIDES				SBA 58
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 09 10 32		-1.95				5.2

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 16	11 16 03.1	2.0S 141.1E	13KM	5.9 NEW GUINEA				SBA 77
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 11 27 57		-1.26				5.9
	EPP	Z 30 52						
	ELR	NE 54 57						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 16	17 23 30.4	5.8S 154.0E	60KM	5.7 SOLOMON IS				SBA 72
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 17 34 51		-1.93				5.1

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 16	22 03 14	15.3S 172.8W	33KM	4.7 SAMOA IS REGION				SBA 63
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 22 13 42		-1.83				5.3
JUN 17	SBA EP	ZNE 03 09 39		-1.95				

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 17	07 48 58.5	19.6S 169.0E	58KM	4.5 NEW HEBRIDES IS				SBA 58
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 07 58 49		-1.95				5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 18	20 33 53.3	39.3S 74.7W	26KM	5.3 OFF CENTRAL CHILE				SBA 57
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 20 43 42		-0.71				6.5
	PS	NE 51 52						
	E	Z 52 16						
	LQ	NE 58 24						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 20	09 59 08.9	19.9S 174.1W	33KM	4.7 TONGA IS				SBA 59
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 10 09 04		-1.95				5.2
	ELR	NE 26 32						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 20	12 31 49.7	21.2S 179.2W	600KM	4.4 FIJI IS REGION				SBA 57
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 12 40 43		-1.95				4.4

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 21	06 54 46.2	14.9S 73.3W	80KM	5.0 PERU				SBA 82
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 07 06 54.2 D		-1.63				5.4

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 21	07 42 55	30.0S 91.6W	33KM	4.7 SE CENTRAL PACIFIC				SBA 63
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 07 53 23		-2.11				5.1

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 21	22 21 22.7	16.3S 178.0E	18KM	5.0 FIJI IS				SBA 62
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 22 31 39		-1.63				5.6
	EL	NE 47 29						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 22	00 16 27.4	15.7S 172.8W	33KM	5.1 SAMOA IS REGION				SBA 63
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 00 26 50		-1.12				6.0
	E	ZN 27 19						
	S	NE 35 25						
	SCS	NE 36 48						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 22	03 03 37.9	10.4S 161.1E	70KM	5.4 SOLOMON IS				SBA 68
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 03 14 29		-0.90				6.1
	E(PS)	N 23 39						
	ELR	N 35 10						
	EPKPPKP	Z 43 16						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 22	07 30 59.5	18.0S 167.6E	33KM	4.7 NEW HEBRIDES IS				SBA 60
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 07 41 09		-1.93				5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 22	13 40 02.8	25.1S 177.4W	121KM	5.1 S OF FIJI IS				SBA 53
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 13 49 14		-1.81				5.2

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 22	14 17 36.5	12.5S 166.7E	143KM	3.8 SANTA CRUZ IS				SBA 65
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 14 28 05.9 U		-1.47				5.5

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 23	01 26 37.0	43.3N 146.1E	77KM	6.2 KURILE IS				SBA 122
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZNE 01 45 24						
	EPP	Z 46 51						
	ESKKS	Z 53 52						
	EPKKP	Z 55 25						
	ESP	Z 56 28						
	E(SKKS)	Z 02 02 31						
	ESS	NE 03 28						
	ELQ	E 17 14						
	ELR	ZNE 22 59						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 23	17 01 28.9	18.9S 175.8W	204KM	4.3 TONGA IS				SBA 60
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	Z 17 11 13		-1.56				5.2

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 23	19 10 11.4	3.0N 126.6E	33KM	5.3 TALAUD IS				SBA 84
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 19 22 39		-1.81				5.4

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 24	14 59 58.7	7.1S 155.6E	123KM	5.0 SOLOMON IS				SBA 71
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 15 11 06						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 26	01 32 51.5	55.9S 27.6W	55KM	5.5 S SANDWICH IS				SBA 46
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 01 41 12		-1.27				5.6

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 26	13 10 28.9	12.6S 169.4E	648KM	4.9 SANTA CRUZ IS				SBA 65
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 13 20 10		-1.81				4.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 26	13 32 52.3	9.2S 158.9E	17KM	5.6 SOLOMON IS				SBA 69
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 13 43 56		-1.56				5.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 27	02 28 57.1	40.4N 77.5E	33KM	5.0 KIRGIZ-SINKIANG				SBA 129
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	Z 02 48 03						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 27	11 44 21.4	20.2S 178.9W	603KM	4.5 FIJI IS REGION				SBA 58
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 11 53 17		-1.82				4.5

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 27	16 43 47.0	11.5S 13.8W	33KM	4.7 ASCENSION IS				SBA 91
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 16 56 54						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JUN 28	12 51 34.6	1.7S 149.6E	7KM	6.4 NEW IRELAND REGION				SBA 77
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 13 03 29						
	S	NE 13 19						
	ESS	Z 18 24						
	ESSS	ZE 21 15						
	LQ	NE 24 12						28 48

	ELR	ZNE 28 05					18 18	

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 28	14 52 08.4	13.2S 167.1E	215KM	5.4 NEW HEBRIDES				SBA 65
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 15 02 25		-1.06				5.7
JN 28	SBA P	ZNE 15 27 10		-1.65				
	E	ZE 20						
	EL	ZNE 30 10					8 26	

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 28	19 09 05.4	58.3N 150.2W	23KM	5.5 GULF OF ALASKA				SBA 138
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZNE 19 28 30						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 28	23 45 37.9	30.7S 178.0W	29KM	4.2 KERMADEC IS REGION				SBA 48
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 23 54 15						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 29	07 12 06	17.5S 173.5W	33KM	4.1 TONGA IS				SBA 61
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	Z 07 22 19		-1.93				5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 29	07 21 32.8	62.7N 152.0W	33KM	5.6 CENTRAL ALASKA				SBA 143
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	ZNE 07 41 02						
	SKP	ZNE 44 29						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 30	05 27 28.7	29.8S 178.7W	214KM	4.5 KERMADEC IS REGION				SBA 49
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA IP	ZNE 05 35 54.0 U		-0.60				5.9

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 30	08 51 51.2	6.9S 129.6E	99KM	4.9 BANDA SEA				SBA 73
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA P	ZNE 09 03 16		-1.83				5.1

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 30	10 14 45.8	19.8S 173.9W	33KM	4.8 TONGA IS				SBA 59
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 10 24 40		-1.81				5.4

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 30	13 46 21.6	0.8S 122.5E	36KM	6.3 NORTHERN CELEBES				SBA 80
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EP	ZNE 13 58 32		0.34				7.5
	S	ZNE 14 08 40					65 21	75 18 7.4
	ESS	ZE 13 51						
	ELQ	NE 18 52						
	ELR	ZNE 22 00					54 19 59 24	
	EPKP(3)	ZNE 45 31						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
JN 30	15 48 43	45.9N 150.4E	33KM	6.0 KURILE IS				SBA 124
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE MAG
	SBA EPKP	Z 16 07 31						
	E	ZNE 44						
	EPKKP	Z 17 39						

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 30	17 52 35.6	14.3S 173.6E	607KM	4.3 FIJI IS REGION		SBA 64
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 18 02 10		-1.50		5.0
JUN 30	SBA EP	ZNE 18 43 50		-1.52		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 30	19 47 22.5	0.0N 122.9E	33KM	4.9 NORTHERN CELEBES		SBA 81
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 19 59 36		-1.71		5.5

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 30	20 08 28.5	46.6N 144.6E	383KM	5.5 SEA OF OKHOTSK		SBA 125
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 20 26 44				
	E*PPKP	ZNE 28 16				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 30	22 11 38.5	11.1S 162.4E	9KM	4.9 SOLOMON IS		SBA 67
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 22 22 34				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 30	23 14 33	3.0S 122.6E	56KM	5.3 NORTHERN CELEBES		SBA 78
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 23 26 42				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 01	02 47 33.9	46.3N 146.9E	33KM	5.4 NW OF KURILE IS		SBA 124
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 03 06 28				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 01	09 25 55	2.0S 141.2E	33KM	NEW GUINEA		SBA 77
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 09 37 47		-1.26		5.8

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 01	13 33 10	1.8N 127.1E	33KM	4.5 HALMAHERA		SBA 82
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 13 45 30.5	V	-1.65		5.5

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 01	20 20 56.6	17.1S 69.1W	147KM	5.1 PERU-BOLIVIA		SBA 80
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 20 32 44		-1.53		5.3

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 01	22 49 17.8	14.2S 73.3W	80KM	5.2 PERU		SBA 82
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 23 01 32		-1.37		5.6

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 01	23 05 07	10.0S 148.6E	176KM	E NEW GUINEA		SBA 68
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 23 15 40				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 02	05 03 35	1.2N 118.9E	133KM	BORNEO		SBA 83
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 05 15 47		-1.95		4.9

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 02	12 11 23	1.0N 124.3E	160KM	NORTHERN CELEBES		SBA 82
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 12 23 27		-1.65		5.2
	E	ZNE 45				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 02	22 09 37.3	20.2S 175.6W	157KM	4.5 TONGA IS		SBA 58
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 22 19 21		-1.95		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 02	22 51 35.9	39.0S 74.6W	33KM	4.7 OFF CENTRAL CHILE		SBA 58
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 23 01 26				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 03	01 23 03	6.5S 105.3E	57KM	5.3 SUNDA STRAIT		SBA 78
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 01 34 56		-2.11		4.9

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 03	21 58 08.1	21.9S 170.1E	45KM	LOYALTY IS REGION		SBA 56
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 22 07 46		-1.65		5.5

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 04	10 49 28.8	11.7N 144.5E	33KM	6.0 S OF MARIANA IS		SBA 90
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 11 02 29		-1.03		6.4
	ELR	ZNE 31 41				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 05	03 14 33.3	60.8N 144.9W	30KM	4.9 SOUTHERN ALASKA		SBA 142
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 03 34 02				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 05	19 07 58.2	26.2N 110.2W	33KM	6.0 GULF OF CALIFORNIA		SBA 114
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA E	Z 19 27 28				
	EPP	ZNE 36				
	EPS	ZNE 37 09				
	ESS	ZNE 43 31				
	ELQ	N 54 32				
	ELR	ZNE 20 01 12			20 16	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 05	23 36 01.5	44.8N 149.6E	54KM	5.5 KURILE IS		SBA 123
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 23 54 53				
	ESKP	ZNE 58 14				
	ESKKS	N 24 03 32				
	E	E 04 40				
	ESP	ZNE 06 36				
	ESS	ZNE 13 10				
	ELQ	E 27 20				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JL 06	02 14 36.0	26.2N 110.4W	33KM	5.4 GULF OF CALIFORNIA		SBA 114
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 02 33 17				
	EPP	Z 34 11				
	SP	ZNE 43 26				
	ESS	ZNE 49 26				
	ELQ	N 03 01 13				

	ELR	ZNE	07 45					37 21	11 20	23 19			
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 06	07 22 10.3	18.2N 100.4W		82KM	6.5	GUERRERO MEXICO						SBA 108	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA E(P)	ZNE 07 37 29											
	E(*PP)	Z 52											
	EPKP	ZNE 40 15											
	PP	ZNE 41 04											
	ESKS	NE 46 57											
	EPS	E 50 06											
	EPKKP	ZNE 51 41											
	E(PKKS)	NE 55 36											
	ESKKS	Z 59 13											
	ELQ	NE 08 07 28						64 41	171 36				
	36 KILLED ,PROPERTY DAMAGE												
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 06	09 47 26.0	18.0S 174.7W		80KM	4.4	TONGA IS						SBA 61	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 09 57 32			-1.95							5.2	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 06	10 06 02.3	6.3S 154.7E		49KM	6.4	SOLOMON IS						SBA 72	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 10 17 21			-1.53							5.5	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 06	10 13 45.2	37.1N 71.4E		100KM	5.9	AFGHANISTAN-USSR						SBA 127	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	Z 10 32 35											
JUL 06	SBA P	ZNE 11 34 49			-0.85								
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 06	12 34 35.8	17.8S 167.5E		33KM	4.3	NEW HEBRIDES IS						SBA 60	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 12 44 42			-1.81							5.4	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 06	14 06 32.6	24.2S 69.7W		128KM	4.5	NORTHERN CHILE.						SBA 73	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 14 17 41											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 06	14 19 46.3	6.9S 129.6E		100KM	5.8	BANDA SEA						SBA 73	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE 14 31 09.7		U	-1.20							5.7	
	E	E 20											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 06	19 50 42.1	21.2S 173.8E		22KM	4.8	NEW HEBRIDES IS						SBA 57	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 20 00 26			-1.38							5.8	
	ES	NE 08 27											
	ELQ	NE 14 58											
	ELR	Z 17 58											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 07	06 44 49.2	8.8S 110.7E		60KM		JAVA						SBA 75	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 06 56 24			-1.81							5.2	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 07	07 39 04.2	23.6S 179.9W		462KM	5.5	S OF FIJI IS						SBA 55	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE 07 47 50.8		U	-0.90							5.5	

	PCP	Z	48 44										
	E*PP	Z	49 39										
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 07	14 16 56	20.1S 178.0W		617KM		FIJI IS REGION						SBA 58	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE 14 25 59			-1.58							4.7	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 07	16 28 42.9	11.2S 163.2E		13KM	5.1	SOLOMON IS						SBA 67	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 16 39 32			-1.81							5.4	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 08	01 35 02.5	15.3S 173.1W		33KM	4.8	TONGA IS						SBA 63	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 01 45 26											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 08	07 45 48.6	3.2N 128.4E		50KM	5.5	N OF HALMAHERA						SBA 84	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 07 58 13			-1.23							5.9	
	ES	NE 08 08 31											
	ELQ	NE 21 09											
	ELR	ZNE 27 08											
JUL 08	SBA EP	ZNE 11 13 34			-1.82								
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 08	11 49 23.7	6.4S 154.8E		73KM	5.1	SOLOMON IS						SBA 72	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 12 00 32			-0.99							6.0	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 08	11 55 39	5.5S 129.8E		165KM	6.5	BANDA SEA						SBA 75	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 12 07 02			-0.44							6.4	
	ES	ZNE 16 20						60	22	90	14	7.4	
	ESS	ZNE 21 08								84	21		
	ELQ	ZNE 26 07											
	ELR	ZNE 31 01						52	23	39	22		
	ESKPPKP	Z 37 30								44	21		
	E	Z 57 36											
	PHASE RECORDED AT 12 57 36 IS SKPPKPPKP												
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 09	05 47 09.2	15.4N 119.8E		53KM	5.5	PHILIPPINE IS						SBA 97	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 06 00 37			-1.74							5.8	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 09	11 22 05.4	23.3S 175.7W		43KM	5.7	TONGA IS REGION						SBA 55	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE 11 31 37.0			0.36							7.5	
	ES	ZNE 39 25											
	SCS	E 41 28											
	SS	ZE 43 07											
	ELQ	NE 45 41											
	LR	Z 47 05											
	PKPPKP	ZNE 12 01 33						18	25	16	25		
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 09	12 02 11.9	34.2N 140.9E		49KM	5.0	HONSHU JAPAN						SBA 113	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	Z 12 20 45											
	E(PP)	Z 21 46											

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 09	16 39 49.3	15.5S 167.6E	121KM	6.6 NEW HEBRIDES IS		SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 16 50 00.7	U			
	ES	ZNE 58 04				
	(SCS)	N 59 18				
	ESKKS	ZNE 17 18 04				
	EPKPPKP	ZNE 19 00				
	E	Z 27 02				
	E	ZNE 30 46				
	EPKP(3)	Z 37 50				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 09	21 43 46.3	1.8S 141.6E	33KM	NEW GUINEA REGION		SBA 77
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 21 55 39				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 10	21 16 26	20.1S 174.2W	33KM	4.6 TONGA IS		SBA 59
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP?	ZN 21 26 10		-1.93		5.3

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 10	21 48 42.5	8.5S 147.9E	127KM	E NEW GUINEA		SBA 70
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 21 59 44		-1.95		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 11	05 53 53.4	23.8S 177.4W	215KM	4.2 S OF FIJI IS		SBA 55
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 06 03 03.0	D	-1.52		5.2

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 11	06 40 45.6	11.7S 166.6E	33KM	4.4 SANTA CRUZ		SBA 66
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 06 51 32		-1.93		5.2

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 11	09 44 18.7	59.7N 146.1W	33KM	5.3 GULF OF ALASKA		SBA 140
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 10 03 46				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 11	15 35 53.1	5.8N 126.4E	152KM	5.0 PHILIPPINE IS		SBA 86
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 15 48 21				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 11	17 07 38.9	16.9S 172.8W	33KM	4.7 SAMOA IS REGION		SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 17 17 56				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 11	17 32 16.8	15.5S 167.7E	143KM	4.5 NEW HEBRIDES IS		SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 17 42 27		-1.93		5.1
	E(*PP)	Z 58				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 11	18 53 15.8	12.2N 141.6E	61KM	4.7 S OF MARIANA IS		SBA 91
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 19 06 16		-1.74		5.7

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 11	20 25 40.3	59.7N 146.2W	40KM	5.6 GULF OF ALASKA		SBA 140
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 20 44 58				
	(PKP)	ZNE 45 07				
JUL 11	SBA EP	ZNE 01 01 12		-1.83		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 12	01 45 25.6	38.6N 139.2E	13KM	6.0 HONSHU JAPAN		SBA 117
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 02 04 11				
	EPP	ZNE 05 29				
JUL 12	SBA EP	ZNE 13 41 52		-1.93		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 12	16 48 21.7	24.5S 66.9W	164KM	5.1 ARGENTINA		SBA 73
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 16 59 37.6	D	-1.57		5.2

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 12	21 08 52.6	55.9S 27.6W	135KM	5.2 S SANDWICH IS		SBA 46
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 21 17 06		-1.35		5.4

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	01 14 33.5	20.7S 178.7W	575KM	4.9 FIJI IS REGION		SBA 58
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 01 23 31		-1.73		4.6
JUL 13	SBA EP	ZNE 06 03 01		-0.90		
	EL	ZNE 06 42				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	06 28 28.4	11.8S 166.0E	66KM	4.5 SANTA CRUZ IS		SBA 66
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 06 39 08		-1.58		5.5

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	10 03 45.3	25.0S 179.9W	424KM	4.5 S OF FIJI IS		SBA 53
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 10 12 26		-1.71		4.7

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	10 08 07.2	15.9S 167.9E	33KM	5.4 NEW HEBRIDES IS		SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 10 18 27				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	10 58 47.7	23.7N 94.7E	117KM	6.5 BURMA-INDIA BORDER		SBA 109
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 11 17 08				
	EPKKP	Z 28 12				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	14 53 27.0	20.9S 169.9E	89KM	5.1 NEW HEBRIDES IS		SBA 57
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 15 03 05.1	D			
	*PP	Z 27				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	16 49 38.8	8.3S 113.7E	153KM	JAVA		SBA 75
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	Z 17 01 04.0	U	-1.44		5.4

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	17 12 01.3	8.0N 126.8E	104KM	4.0 PHILIPPINE IS		SBA 89
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
	EP	ZNE 24 45		-1.73		5.4

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 13	23 43 48	48.3S 32.0E	33KM	PRINCE EDWARD IS		SBA 51
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 23 52 48		-1.56		5.5
	E*PP	ZNE 57				
	ES	NE 24 00 14				
	ELR	NE 08 26				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 14	13 58 28.5	53.3N 159.7E	40KM	5.5 KAMCHATKA		SBA 131
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EPKP	Z 14 17 36				
	ESKP	Z 20 54				

JUL 14	SBA EP	Z 15 51 34		-1.90		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 14	18 38 39.1	52.7S 139.4E	36KM	W OF MACQUARIE IS		SBA 27
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 18 44 23				
	ELR	ZNE 51 37				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 14	23 12 12.7	34.3S 179.1E	75KM	5.1 S OF KERMADEC IS		SBA 44
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 23 20 15		-1.05		5.8
	LR	ZNE 32 44				

JUL 15	SBA EP	ZNE 04 08 51		-1.95		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 15	07 26 01.4	52.1N 170.6W	30KM	5.6 ALEUTIAN IS		SBA 130
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EPKP	Z 07 45 10				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 15	08 24 56.5	11.3S 166.1E	130KM	4.7 SANTA CRUZ IS		SBA 67
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	IP	ZNE 08 35 34.2		-1.19		5.8

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 16	00 52 51	15.6S 167.6E	125KM	NEW HEBRIDES IS		SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	Z 01 03 03				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 16	04 21 05.3	1.5N 126.4E	69KM	MOLUCCA PASSAGE		SBA 82
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 04 33 21		-2.11		4.9

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 16	04 51 36.5	15.6S 167.7E	121KM	NEW HEBRIDES IS		SBA 62
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 05 01 48		-1.93		5.1
	E*PP	Z 02 18				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 16	11 27 05	17.9S 179.5W	625KM	4.2 FIJI IS REGION		SBA 60
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	IP	ZNE 11 36 16.2	D	-1.56		4.8

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 17	02 34 26.9	38.2N 23.7E	150KM	5.4 GREECE		SBA 137
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EPKP	ZNE 02 53 20				
	PKP	Z 30				
	PKP	ZNE 34				
	EPP	Z 56 14				
	SKP	ZNE 49				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 17	04 41 05.1	49.3N 158.6E	50KM	5.4 KURILE IS REGION		SBA 127
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EPKP	ZNE 05 00 04				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 17	04 55 00	24.3S 179.6E	495KM	S OF FIJI IS		SBA 54
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	IP	ZNE 05 03 39.2		-1.10		5.3

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 17	19 09 16.4	24.3S 177.1W	93KM	4.1 S OF FIJI IS		SBA 54
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	P	ZNE 19 18 35		-1.73		5.4

JUL 17	SBA EPKP	ZNE 23 13 36				
	E(*PP)	ZNE 50				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 18	03 40 21.5	36.3N 26.1E	115KM	4.9 DODECANESE IS		SBA 135
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EPKP	Z 03 59 30				
	E	Z 52				

JUL 18	SBA EP	ZNE 12 49 14		-1.30		

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 18	12 45 47.7	0.2N 123.5E	97KM	5.8 NORTHERN CELEBES		SBA 81
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	IP	ZNE 12 57 55.5	V	-1.20		5.7

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 19	06 50 18.9	13.9S 167.2E	198KM	4.6 NEW HEBRIDES IS		SBA 64
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	P	ZNE 07 00 34		-1.56		5.2
	E*PP	Z 01 20				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 19	13 40 06.6	15.1S 173.4W	33KM	4.7 TONGA IS		SBA 64
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 13 50 37		-2.13		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 19	15 33 57.6	9.4S 113.0E	80KM	S OF JAVA		SBA 74
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 15 45 24		-2.13		4.8

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 19	18 10 48.2	7.5N 121.8E	51KM	PHILIPPINE IS		SBA 89
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 18 23 39		-1.93		5.4

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 20	04 29 28	6.7S 154.6E	78KM	5.0 SOLOMON IS		SBA 71
		H M S	DIR	LOG A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	Z 04 40 44				

S.I.R. 577

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 20	09 34 22	64.5S 176.7E	33KM	BALLENY IS REGION					SBA 14	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	ZNE 09 37 32		-1.20						
	EL	ZNE 40 28			11	22				
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 20	22 43 15	35.5S 179.7E	223KM	4.9 N ISLAND NZ					SBA 43	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	ZNE 22 50 52		-1.30						5.1
	ELR	ZNE 23 03 22								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 20	22 56 01	34.4S 179.2E	162KM	5.0 S OF KERMADEC IS					SBA 44	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	ZNE 23 03 55		-1.60						5.0
	ELR	ZNE 16 24								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 21	02 47 48.6	31.3S 180.0W	433KM	4.0 KERMADEC IS					SBA 47	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	Z 02 55 42		-1.93						4.6
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 21	03 48 59.1	26.0S 178.0W	222KM	5.8 S OF FIJI IS					SBA 52	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA IP	ZNE 03 57 52.4	V	-1.03						5.6
	E*PP	Z 58 36								
	SCP	Z 04 02 37								
	S	ZNE 05 10					16	9	10 11	6.6
	E	E 06 20							9 13	
	SCS	NE 07 22					4	8	12 9	
	(SS)	NE 08 53								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 21	07 33 19.6	20.0S 69.8W	84KM	4.5 NORTHERN CHILE					SBA 77	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	Z 07 45 07								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 21	09 56 16.6	72.1N 130.2E	33KM	5.4 LAPTEV SEA					SBA 151	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EPKP	ZNE 10 16 07								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 21	13 13 00.2	11.5N 121.9E	34KM	PHILIPPINE IS					SBA 93	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA E(P)	ZNE 13 26 22								
	ELR	Z 57 08								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 21	21 01 49.5	4.6S 153.3E	60KM	4.9 NEW IRELAND REGION					SBA 74	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	ZNE 21 13 18		-1.27						5.7
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 22	03 50 51.6	14.3S 167.4E	203KM	4.0 NEW HEBRIDES IS					SBA 64	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	Z 04 01 02		-1.95						4.9
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 22	07 04 35	54.2S 132.4W	33KM	4.6 S PACIFIC CORD					SBA 32	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	Z 07 10 53								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 22	07 37 52.4	16.3S 167.7E	6KM	NEW HEBRIDES IS					SBA 62	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	ZN 07 48 13		-1.93						5.3
	E	ZNE 22								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 22	08 51 31	4.1N 125.7E	237KM	4.4 TALAUD IS					SBA 85	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	ZNE 09 03 41								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 23	01 53 11.4	28.8S 70.3W	37KM	4.6 CENTRAL CHILE					SBA 68	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	ZNE 02 04 11								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 23	19 08 06.6	59.9N 149.2W	55KM	5.4 ALASKA					SBA 140	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EPKP	Z 19 27 22								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 23	19 18 56.8	27.8S 66.4W	130KM	5.2 ARGENTINA					SBA 70	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA P	ZNE 19 29 57		-1.63						5.3
JUL 24	SBA EPKP	E 07 09 52								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 24	08 12 40.0	47.2N 153.6E	33KM	5.9 KURILE IS					SBA 125	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EPKP	E 08 31 43								
	ESS	NE 50 23								46 32
	LQ	E 09 04 32								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 24	13 47 48.6	6.6S 154.8E	62KM	5.6 SOLOMON IS					SBA 71	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	E 13 59 05								
	S	NE 14 08 24								
	PS	N 09 10								
	SS	N 13 20								
	ELQ	NE 17 25								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 24	17 02 49.2	47.1N 153.6E	33KM	5.8 KURILE IS					SBA 125	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EPKP	E 17 21 50								
	EPP	Z 23 39								
	SKKS	N 30 32								
	PS	N 33 38								
	SS	NE 40 33								17 52
	LQ	E 54 44								
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 25	02 24 38.9	1.8N 141.0E	48KM	NEW GUINEA REGION					SBA 81	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA EP	ZNE 02 36 30		-1.44						5.7
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
JUL 25	12 20 22.2	19.9S 176.2W	205KM	5.3 FIJI IS REGION					SBA 59	
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TN	AE	TE MAG
	SBA IP	ZNE 12 30 00.7	U	-1.30						5.5

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 25	18 18 09	17.1S 172.9W	33KM	4.6 TONGA IS REGION		SBA 62
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 18 28 23				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 25	19 31 07.0	27.9S 70.9W	26KM	6.1 NORTHERN CHILE		SBA 69
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 19 42 14		-0.66		6.5
	S	ZNE 51 22				
	SS	ZE 55 54				
	LQ	NE 59 34				
	LR	ZNE 20 03 26			16 18	
	EPKPPKP	ZNE 10 20				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 25	21 29 33.2	2.9N 128.2E	22KM	5.1 HALMAHERA		SBA 83
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 21 41 59		-1.04		6.2

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 25	22 47 42.7	9.7S 159.8E	21KM	5.6 SOLOMON IS		SBA 68
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 22 58 44				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 26	06 28 32.7	23.4S 180.0E	555KM	4.9 S OF FIJI IS		SBA 55
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 06 37 13.0	U	-1.25		5.2
	PCP	Z 38 06				
	ESCP	Z 41 13				
JUL 26	SBA EP	ZNE 08 36 24		-1.65		
	EL	ZNE 39 37			14 26	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 26	20 24 13.9	4.1N 126.4E	33KM	4.8 TALAUD IS		SBA 85
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 20 36 47				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 27	00 40 26.2	17.0S 172.7W	33KM	4.7 TONGA IS REGION		SBA 62
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 00 50 44				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 27	02 28 00	16.4S 173.8W	33KM	4.5 TONGA IS		SBA 62
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 02 38 20		-2.13		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 27	02 32 45.4	9.2N 126.4E	82KM	PHILIPPINE IS		SBA 90
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 02 45 43				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 27	11 01 13	1.9N 126.3E	67KM	MOLUCCA PASSAGE		SBA 83
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 11 13 30				
	E(PCP)	ZNE 38				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 27	21 00 43.5	20.1S 175.7W	163KM	3.9 TONGA IS		SBA 58
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 21 10 26		-1.95		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 28	06 45 46	7.6S 127.3E	257KM	4.9 BANDA SEA		SBA 73
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 06 56 51		-2.13		4.7

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 28	08 00 00.3	18.9S 169.4E	237KM	4.8 NEW HEBRIDES IS		SBA 59
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 08 09 37		-1.71		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 28	10 46 00.6	16.0S 172.9W	33KM	4.6 SAMOA IS REGION		SBA 63
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 10 56 25		-1.95		5.2

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 28	18 40 04.3	51.2S 139.0E	33KM	5.3 S OF AUSTRALIA		SBA 29
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 18 45 59		-0.75		5.8
	ES	NE 50 50				
	LQ	NE 52 06			80 23 105 23	
	ELR	ZNE 53 41				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 28	21 38 43.5	14.3N 96.2E	33KM	5.5 ANDAMAN IS REGION		SBA 100
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA E(S)	E 22 04 32				
	ESS	NE 11 08			8 21 17 19	
	ELR	NE 25 29				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 29	04 38 59.2	4.0S 128.9E	159KM	4.9 BANDA SEA		SBA 76
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 04 50 32		-1.73		5.1

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 30	05 16 03.3	11.1N 86.2W	42KM	5.7 NICARAGUA		SBA 104
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA PPS	E 05 44 31				
	ESS	ZE 49 38				
	ESSS	ZE 53 14				
	ELR	ZNE 06 05 21				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 30	08 41 54	55.5S 147.3E	33KM	W OF MACQUARIE IS		SBA 23
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZE 08 47 09		-1.28		5.1
	ELR	E 54 32			9 10	

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 30	13 12 54.3	6.0S 154.4E	79KM	SOLOMON IS		SBA 72
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 13 24 12		-1.93		5.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 31	04 05 06.2	44.6N 151.6E	53KM	5.5 KURILE IS REGION		SBA 123
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 04 23 59				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUL 31	05 52 18.8	6.1S 149.4E	63KM	5.9 NEW BRITAIN REGION		SBA 72
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 06 03 40.7		-0.36		6.6
	S	Z 12 58			35 24	
	I	NE 13 06				
	ESS	ZNE 17 14				

		SSS	ZNE	21 16									
		LR	ZNE	26 08				33 21	37 25				
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 31	06 26 36.7	25.7S 179.6W		429KM	5.1 S OF FIJI IS							SBA 53	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE 06 35 12			-1.71							4.7	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
JUL 31	22 08 26.2	4.3S 152.8E		63KM	4.5 NEW BRITAIN REGION							SBA 74	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z 22 19 59											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 01	02 27 13.6	20.0S 179.8E		553KM	4.4 S OF FIJI IS							SBA 58	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 02 36 17			-1.93							4.4	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 01	09 52 51.3	5.5S 131.4E		33KM	4.6 BANDA SEA							SBA 75	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 10 04 30											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 01	13 54 54.8	27.7S 70.9W		118KM	4.5 NORTHERN CHILE							SBA 69	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 14 05 52			-1.95							5.0	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 01	21 33 28	19.9S 66.0E		33KM	MASCARENE IS							SBA 73	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z 21 44 55											
	E*PP	ZNE 45 07											
	ELR	Z 22 07 52											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 01	22 12 04	28.1S 70.4W		33KM	4.4 CENTRAL CHILE							SBA 69	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 22 23 07											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 02	02 20 19	55.9S 27.7W		86KM	4.9 S SANDWICH IS							SBA 46	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZN 02 28 38			-1.95							5.0	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 02	07 03 11.4	3.8S 123.2E		37KM	5.4 CELEBES							SBA 77	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 07 15 04											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 02	08 10 38.7	0.1N 123.9E		110KM	NORTHERN CELEBES							SBA 81	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z 08 22 43											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 02	08 36 16.9	56.2N 149.9W		31KM	5.4 GULF OF ALASKA							SBA 136	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	Z 08 55 38											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 02	13 57 45.0	27.5S 70.3W		61KM	4.2 NORTHERN CHILE							SBA 70	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z 14 08 48											

	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 03	07 44 44.3	22.6N 121.3E		33KM	5.4 TAIWAN REGION							SBA 104	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EPKP	ZNE 08 03 07											
	ELR	Z 32 20											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 03	17 08 11.2	8.3S 118.7E		33KM	SUMBAWA IS REGION							SBA 74	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 17 19 44			-1.95							5.1	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 04	03 36 42.0	2.5S 139.8E		33KM	5.7 W NEW GUINEA							SBA 77	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 03 48 31											
AUG 04	SBA EP	ZNE 09 54 29			-1.95								
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 04	12 38 15.3	15.9S 174.5W		134KM	4.2 TONGA IS							SBA 63	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z 12 48 29			-1.95							5.1	
AUG 04	SBA EP	ZNE 13 58 28			-1.56								
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 04	17 24 29.2	46.5N 151.1E		101KM	5.9 KURILE IS							SBA 124	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA PKP	ZNE 17 43 18											
	ELR	Z 18 22 24											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 05	01 47 39.1	17.8S 176.4W		16KM	4.9 FIJI IS REGION							SBA 61	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z 01 57 51			-1.95							5.3	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 05	06 47 27.7	44.4S 72.4W		33KM	4.8 SOUTHERN CHILE							SBA 53	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 06 56 43			-1.95							5.1	
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 05	11 01 16.5	39.0S 74.5W		26KM	5.1 CENTRAL CHILE							SBA 58	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 11 11 08											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 05	11 06 02.6	32.1S 179.8E		235KM	5.8 S OF KERMADEC IS							SBA 46	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE 11 14 08.8		USW	-0.14							6.3	
	EPCP	Z 15 38											
	SCP	Z 19 07											
	ES	E 20 40											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 05	22 23 13.0	41.1S 74.9W		33KM	6.1 SOUTHERN CHILE							SBA 56	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE 22 32 48			-0.21	46	6					7.3	
	ESS	Z 44 24											
	ELR	Z 48 45											
	EPKPPKP	ZNE 23 02 44											
	H M S	EPICENTRE		DEPTH	MAG							DIST (DEG)	
AUG 06	07 12 01.1	9.1S 120.8E		58KM	5.6 SUMBA IS REGION							SBA 73	
		H M S		DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 07 23 24			-1.95							5.1	

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 06	13 41 36.5	4.2S 140.5E	50KM	W NEW GUINEA	SBA 75
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 13 53 11			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 06	17 03 28.9	22.5S 179.5W	504KM	5.3 S OF FIJI IS	SBA 56
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 17 12 20.3		-1.04	5.4

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 06	18 24 50.5	22.5S 179.5W	504KM	5.3 S OF FIJI IS	SBA 56
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 18 44 10			
	ESKP	Z 47 39			
	ELR	Z 19 29 08			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 06	17 03 28.9	22.5S 179.5W	504KM	5.3 S OF FIJI IS	SBA 56
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 17 12 20.3 D		-1.04	5.4

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 06	18 24 50.5	56.9N 152.1W	39KM	5.6 KODIAK IS REGION	SBA 137
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 18 44 11			
	ESKP	Z 47 39			
	ELR	Z 19 29 08		3 20	

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 06	23 42 45.7	19.2S 167.6E	43KM	5.0 NEW HEBRIDES IS	SBA 59
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 23 52 40		-1.73	5.5
	*PP	Z 52			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 07	02 15 04	20.2S 174.6W	29KM	4.4 TONGA IS	SBA 58
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 02 25 00		-1.95	5.2

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 08	18 42 59	20.9S 176.7W	354KM	4.5 FIJI IS	SBA 58
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 18 52 14			
	E	Z 27			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 08	20 59 43.6	17.5S 175.0W	193KM	4.8 TONGA IS	SBA 61
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA P	Z 21 09 40		-1.05	4.9

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 09	05 30 46.9	10.3S 161.3E	85KM	5.0 SOLOMON IS	SBA 68
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 05 41 23			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 09	06 31 29.3	17.1S 173.1W	33KM	4.5 TONGA IS	SBA 62
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 06 41 45			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
AUG 09	07 56 26	45.1S 79.2W	33KM	4.5 SOLTHERN CHILE	SBA 51
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 08 05 26			
	ELR	Z 19 50			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 09	20 06 36.9	0.3S 125.1E	59KM	5.0 MOLUCCA SEA	SBA 81
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 20 18 46		-1.81	5.3

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 10	01 10 12.4	19.1N 67.3W	33KM	5.5 MONA PASSAGE	SBA 116
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 01 28 53			
	ELR	Z 02 07 33			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 10	07 34 49.9	16.7S 70.8W	92KM	5.2 SOUTHERN PERU	SBA 80
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 07 46 53		-1.71	5.2
	*PP	Z 47 19			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 10	14 44 40.1	14.1S 166.7E	44KM	NEW HEBRIDES IS	SBA 64
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 14 55 09		-1.82	5.3

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 10	17 52 02.5	45.1N 149.9E	40KM	5.3 KURILE IS	SBA 123
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 18 10 56			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 10	21 40 10.4	6.2S 154.5E	105KM	5.7 SOLOMON IS	SBA 72
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 21 51 24		-1.46	5.4

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 11	01 55 25.0	5.8S 154.1E	425KM	5.3 SOLOMON IS	SBA 72
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 02 06 08		-1.73	5.0

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 11	05 49 58.7	18.0S 176.9W	329KM	4.3 FIJI IS REGION	SBA 60
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 05 59 37		-2.11	4.5

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 11	12 32 00.2	14.7S 167.8E	140KM	4.7 NEW HEBRIDES	SBA 63
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 12 42 17.1 U		-1.83	5.2

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 12	06 51 49.9	48.9N 153.7E	127KM	5.6 KURILE IS	SBA 127
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 07 10 38			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 13	00 31 14.1	5.4S 154.3E	383KM	6.0 SOLOMON IS	SBA 73
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 00 42 03		-0.12	6.7
	ES	ZNE 51 00			31 10 6.9
	ELQ	ZNE 01 01 24			
	EPKPPKP	Z 09 28			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
UG 13	04 28 23.2	6.0S 130.4E	127KM	5.0 BANDA SEA	SBA 74
		H M S	DIR	LOG•A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 04 39 48		-1.82	5.0
	E	E 40 06			

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 13	10 48 35	19.3S 177.6W	551KM	4.3 FIJI IS REGION		SBA 59
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA P	ZNE 10 57 45		-1.65		4.7
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 13	18 26 30.7	10.5S 13.3W	33KM	5.1 ASCENSION IS		SBA 92
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	Z 18 39 38		-1.93		5.6
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 14	07 08 55.9	9.8S 123.8E	33KM	TIMOR		SBA 71
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	NE 07 20 18				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 14	21 48 31.2	18.8S 168.2E	26KM	4.6 NEW HEBRIDES IS		SBA 59
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	NE 21 58 31				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 15	03 34 50.8	5.5S 104.1E	33KM	5.2 SOUTHERN SUMATRA		SBA 79
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	NE 03 46 55				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 15	04 10 09.3	4.1S 104.7E	17KM	S SUMATRA		SBA 80
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	NE 04 22 22				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 16	19 40 53.9	15.0S 175.8W	332KM	4.6 TONGA IS		SBA 63
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	NE 19 50 52				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 17	11 45 01.2	18.0S 178.3W	648KM	5.1 FIJI IS		SBA 60
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	NE 11 54 13				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 17	14 54 01.4	42.6N 142.8E	33KM	5.1 HOKKAIDO JAPAN		SBA 121
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA E(PKP)	NE 15 13 10				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 17	20 17 26.6	27.8S 70.5W	33KM	4.6 N CHILE		SBA 69
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA E(P)	NE 20 28 49				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 17	22 02 35.1	24.5S 176.8W	33KM	4.5 S OF FIJI IS		SBA 54
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	NE 22 11 59				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
AUG 18	04 44 58.0	26.4S 71.5W	8KM	6.4 OFF N CHILE		SBA 71
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA IP	ZNE 04 56 15.8	UNW	1.03		8.3
	S	Z 05 05 31				
	ESS	Z 10 04				
	EPKPPKP	ZNE 24 04				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 19	01 30 57.4	61.2S 27.8W	33KM	S SANDWICH IS		SBA 41
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 01 38 41		-0.75		6.0
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 19	09 33 10.0	28.2N 52.6E	50KM	5.6 S IRAN		SBA 122
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EPKP	ZNE 09 52 00				
	ELR	Z 10 34 14		3 20		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 19	15 20 13.9	28.2N 52.7E	52KM	5.6 S IRAN		SBA 122
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EPKP	ZNE 15 39 05				
	ELR	Z 16 20 59				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 20	04 18 01	4.1N 95.4E	93KM	N SUMATRA		SBA 90
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 04 30 53				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 20	05 39 47.7	28.2N 52.6E	52KM	5.5 S IRAN		SBA 122
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EPKP	ZNE 05 58 40				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 20	08 32 43.1	29.7S 177.9W	80KM	4.4 KERMADEC IS		SBA 49
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	Z 08 41 24				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 20	12 48 47.7	37.4S 78.3E	33KM	MID-INDIAN RISE		SBA 53
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 12 58 05		-1.47		5.6
	ES	E 13 05 42				
	ELR	ZNE 14 34		4 22		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 20	16 17 48.2	60.3S 27.1W	33KM	S SANDWICH IS		SBA 42
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 16 25 37		-1.63		5.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 21	23 49 13.6	18.7S 169.1E	81KM	NEW HEBRIDES IS		SBA 59
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	Z 23 59 08		-1.81		5.4
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 21	23 58 56.6	12.2S 110.5E	35KM	5.3 NW OF AUSTRALIA		SBA 71
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZN 00 10 17				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 22	05 42 39	34.9S 15.1W	33KM	TRISTAN DA CUNHA		SBA 68
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 05 53 38				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
UG 23	09 35 25.0	4.5S 138.4E	163KM	5.0 W NEW GUINEA		SBA 75
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	Z 09 46 46				
	E-PP	ZN 47 26				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 23	13 26 25.4	21.6S 69.6W	71KM	4.2 N CHILE					SBA 76
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZN 13 38 05							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 23	15 24 05.3	6.1S 149.4E	63KM	4.9 NEW BRITAIN					SBA 72
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 15 35 26		-0.99					6.0
	ES	ZNE 44 48							16 9 7.0
	ESS	ZNE 49 20							
	E(SSS)	ZNE 53 05			9	25	9	20	
	ELQ	NE 55 02							
	ELR	ZNE 57 53			11	21	8	21	4 21

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 24	10 37 23.4	1.5S 78.1W	173KM	5.1 ECUADOR					SBA 94
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZN 10 50 22		-1.71					5.6

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 24	17 26 15.1	0.2N 123.8E	127KM	5.4 N CELEBES					SBA 81
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZN 17 38 19.0		-1.18					5.7

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 24	21 56 54.2	58.4N 150.3W	22KM	5.8 GULF OF ALASKA					SBA 139
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	Z 22 16 15							
	ELR	Z 23 03 39							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 25	02 56 17	7.0S 129.4E	143KM	5.0 BANDA SEA					SBA 73
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 03 07 36		-1.93					4.9

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 25	05 46 12.1	5.4S 147.1E	203KM	5.0 E NEW GUINEA					SBA 73
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZN 05 57 24							
	E(*SP)	Z 58 46							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 25	07 45 47.1	37.6S 73.7W	24KM	4.5 NEAR CENTRAL CHILE					SBA 59
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 07 55 52							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 25	13 47 20.6	78.2N 126.6E	50KM	6.1 SEVERNAYA ZEMLYA					SBA 157
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZNE 14 07 10							
	EPKP2	ZNE 42							
	EPP	Z 11 26							
	E(PPS)	Z 24 44							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 25	21 03 30	19.5S 176.9W	444KM	4.2 FIJI IS					SBA 59
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZN 21 12 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 26	03 18 44.1	52.1N 30.1W	33KM	5.4 N ATLANTIC RIDGE					SBA 153
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	Z 03 38 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 26	12 59 31.1	0.2N 126.6E	33KM	4.5 MOLUCCA PASSAGE					SBA 81
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 13 11 42		-2.11					5.1

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	04 45 02.6	5.6S 133.9E	9KM	5.1 ARCE IS					SBA 74
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 04 56 42		-1.71					5.5
	PCP	Z 59							
AUG 27	SBA P	ZNE 06 26 47		-1.71					

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	07 53 54.8	17.5S 173.0W	33KM	5.3 TONGA IS					SBA 61
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 08 04 07		-1.50					5.7
	E(PS)	NE 12 35							
	ELQ	NE 19 43							
	ELR	ZNE 23 26							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	08 27 43	6.5N 123.5E	33KM	5.1 PHILIPPINE IS					SBA 88
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 08 40 20							
AUG 27	SBA EP	ZNE 09 21 28		-1.74					
AUG 27	SBA (S)	E 09 31 18							
	ELQ	E 33 32							
	ELR	ZNE 34 39							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	11 58 41.3	28.2N 55.7E	69KM	5.1 S IRAN					SBA 122
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	Z 12 17 28							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	12 56 46.1	27.5N 55.9E	33KM	5.3 S IRAN					SBA 121
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 13 15 42							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	15 37 52	3.0S 103.1E	506KM	S SUMATRA					SBA 82
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 15 49 19							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	21 23 38.4	22.7S 172.0E	33KM	LOYALTY IS					SBA 55
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZN 21 33 12		-1.81					5.3

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	23 48 26.3	21.6S 175.3W	60KM	5.2 TONGA IS					SBA 57
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 23 58 16		-1.78					5.4

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 28	04 35 29.3	19.8S 178.2W	580KM	5.4 FIJI IS					SBA 59
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 04 44 33.0	U	-0.61					5.7
	I	Z 45 50							
	E*PP	Z 46 25							
	SCP	Z 48 21							
	EPKPPKP	Z 05 14 10							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 28	08 25 08.9	18.2S 174.6W	70KM	4.4 TONGA IS					SBA 60
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 08 35 14		-1.81					5.4
AUG 28	SBA P	ZNE 13 34 24		-1.63					
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 28	13 22 05	7.6N 95.6E	33KM	5.2 NICOBAR IS					SBA 93
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 13 35 15							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 28	14 42 18.5	24.4S 179.8E	549KM	4.9 S OF FIJI IS					SBA 54
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 14 50 52		-1.58					4.8
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 29	06 05 24.2	19.3S 66.3W	232KM	5.0 S BOLIVIA					SBA 78
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 06 17 02							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 29	12 49 58.3	13.3S 172.4E	33KM	4.9 NEW HEBRIDES IS					SBA 65
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 13 00 32		-1.71					5.4
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 29	13 25 25.9	13.7S 172.6E	33KM	5.0 NEW HEBRIDES IS					SBA 64
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 13 36 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 29	17 26 55.5	20.7S 174.1W	33KM	4.4 TONGA IS					SBA 58
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 17 36 48		-1.95					5.2
AUG 29	SBA EP	ZNE 21 27 14		-1.81					
	E	ZNE 29 06							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 29	21 36 50.8	14.9S 172.8W	33KM	4.7 SAMOA IS					SBA 64
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 21 47 23		-1.82					5.3
	E	NE 53							
AUG 30	SBA EP	ZNE 01 08 05							
	E	Z 09 58							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 30	08 11 42.5	15.8S 174.9W	286KM	4.9 TONGA IS					SBA 63
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 08 21 40		-1.83					4.9
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 30	08 47 34.7	5.0S 144.5E	93KM	5.8 NEW GUINEA					SBA 74
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 08 59 01		-1.71					5.2
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 30	20 37 09.2	13.6S 172.4E	33KM	4.9 NEW HEBRIDES IS					SBA 64
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 20 47 44		-1.23					5.9

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 30	21 44 56.9	19.9S 176.0W	253KM	5.6 FIJI IS					SBA 59
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 21 54 30.8		-1.17					5.5
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 30	22 30 24.8	13.7S 172.5E	33KM	NEW HEBRIDES IS					SBA 64
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 22 40 59		-1.23					5.9
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 31	02 14 20.3	35.2S 106.0W	33KM	5.2 EASTER IS CORD					SBA 55
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 02 23 52		-1.53					5.6
	ELQ	N 37 52							
	ELR	Z 40 24							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 31	23 20 19.4	52.4N 170.7W	33KM	5.2 ALEUTIAN IS					SBA 131
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZN 23 39 29							
	ESKP	Z 42 47							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 01	17 16 40.4	51.2N 170.6W	25KM	5.5 ALEUTIAN IS					SBA 130
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZNE 17 35 47							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 01	20 48 39	57.2S 147.1E	33KM	W OF MACQUARIE IS					SBA 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 20 53 30		-1.08					5.2
	ES	ZNE 57 35							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 02	21 32 39.6	18.6S 169.4E	218KM	4.9 NEW HEBRIDES IS					SBA 59
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 21 42 20		-1.71					5.0
SEP 03	SBA EP	ZNE 06 07 38		-1.17					
	EL	Z 11 24							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 03	10 06 55.9	30.9S 68.4W	113KM	5.1 ARGENTINA					SBA 67
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 10 17 36		-1.63					5.3
SEP 03	SBA EP	ZNE 10 26 24		-1.65					
	E	ZNE 27 29							
	EL	Z 47 02							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 03	11 23 03	28.4S 177.1W	312KM	3.9 KERMADEC IS					SBA 50
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 11 31 30							
	E	ZNE 40							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 03	12 57 22.3	17.9S 178.0W	567KM	FIJI IS					SBA 60
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 13 06 40		-1.93					4.4
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 03	16 58 55.4	15.2S 173.5W	33KM	5.1 TONGA IS					SBA 63
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 17 09 25.4 U		-1.58					5.6

		ELR	Z	27 50								
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 03	22 19 23.1	6.4S 128.5E	218KM		BANDA SEA						SBA 74	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE 22 30 39		-1.83							5.0	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 04	09 36 58.7	18.3S 69.0W	101KM	5.4	N CHILE						SBA 79	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 09 48 53		-1.81							5.1	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 04	10 34 13.1	4.0S 131.4E	33KM	5.9	BANDA SEA						SBA 76	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE 10 46 00										
	ES	ZNE 55 44										
	ELQ	E 11 06 52										
	ELR	ZNE 11 29					20	20	21	19	17	21
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 04	11 39 24.0	17.6S 168.6E	33KM		NEW HEBRIDES IS						SBA 60	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z 11 49 34		-1.81							5.4	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 04	14 50 34	24.3S 179.1E	548KM		S OF FIJI IS						SBA 54	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE 14 59 09		-1.47							5.0	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 04	16 10 53.0	4.0S 131.5E	37KM	4.7	BANDA SEA						SBA 76	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 16 22 40		-1.82							5.2	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 04	17 10 28.4	3.9S 131.5E	33KM	4.8	W NEW GUINEA						SBA 76	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE 17 22 17		-1.50							5.6	
SEP 05	SBA EP	ZNE 02 17 38		-1.95								
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 05	02 09 21.4	24.4S 68.2W	64KM	4.9	CHILE-ARGENTINA						SBA 73	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 02 20 46		-1.93							5.0	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 05	02 17 14.4	32.2S 179.5E	397KM	4.6	S OF KERMADEC IS						SBA 46	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE 02 25 03		-1.71							4.7	
	EPCP	ZNE 26 29										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 05	02 53 50.6	5.8S 154.0E	69KM	6.4	SOLOMON IS						SBA 72	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE 03 05 11.8 U					30	7			7.3	
	S	ZNE 14 38							15	8	41 12	7.2
	SS	ZNE 19 15										
	EL	ZNE 23 06					26	17	20	18	11 17	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 05	04 09 51.6	6.0S 153.8E	81KM	4.8	NEW BRITAIN						SBA 72	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 04 21 09		-1.93							5.0	

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 05	07 20 45	33.6S 77.6E	33KM		MID-INDIAN RISE						SBA 57	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 07 30 34										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 05	11 55 37	54.0S 141.1E	33KM		W OF MACQUARIE IS						SBA 26	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 12 01 09		-1.73							4.7	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 05	18 46 19	53.9S 140.4E	33KM		W OF MACQUARIE IS						SBA 26	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 18 51 50										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	03 27 47.9	17.8S 168.2E	33KM	4.8	NEW HEBRIDES IS						SBA 60	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 03 37 52										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	03 38 48.8	46.7S 13.5W	33KM	4.8	S ATLANTIC RIDGE						SBA 56	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 03 48 25		-1.30							5.8	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	07 50 12.6	48.1S 104.1E	33KM		SE INDIAN RISE						SBA 38	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 07 57 27		-1.28							5.5	
	EL	N 08 07 41										
	EL	ZE 08 46					3	22				
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	09 21 22.4	20.3S 178.9W	621KM	4.2	FIJI IS						SBA 58	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA P	ZNE 09 30 20		-1.68							4.6	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	11 15 27.9	6.0S 153.7E	90KM	4.5	NEW BRITAIN						SBA 72	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 11 26 46										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	16 13 23.2	21.5S 66.8W	233KM	4.7	S BOLIVIA						SBA 76	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 16 24 49		-1.70							5.1	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	18 41 01.8	10.0N 140.2E	33KM	5.1	W CAROLINE IS						SBA 89	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 18 53 56		-1.57							5.8	
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	18 57 20.4	7.1N 93.7E	46KM	5.2	NICOBAR IS						SBA 93	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP?	Z 19 10 35										
	E(*SP)	ZN 47										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
SEP 06	20 34 22.2	4.7S 144.8E	76KM	5.7	NEW GUINEA						SBA 74	
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE 20 45 52										

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 06	21 05 48	6.0S 107.1W	33KM	5.0 EASTER IS CORD					SBA 83
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 21 18 12		-1.52					5.7
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 07	11 29 17.6	4.1S 151.7E	246KM	NEW BRITAIN					SBA 74
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 11 40 29							
	E*PP	Z 41 31							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 07	11 27 15	15.7N 53.3E	33KM	4.6 ARABIAN SEA					SBA 110
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP?	Z 11 45 37							
	ELR	ZNE 12 18 19			4	23	3	20	
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 07	15 13 14.1	10.1S 161.1E	38KM	5.0 SOLOMON IS					SBA 68
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 15 24 15		-2.11					5.1
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	05 55 19	20.5S 176.2W	33KM	4.5 FIJI IS					SBA 58
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZN 06 05 11		-1.95					5.2
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	07 54 57.9	5.8N 126.1E	177KM	5.4 PHILIPPINE IS					SBA 86
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 08 07 24		-1.93					5.0
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	11 15 35	17.4S 173.5W	33KM	5.0 TONGA IS					SBA 61
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 11 25 48		-1.93					5.3
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	13 41 44.1	24.1S 177.6W	165KM	4.8 S OF FIJI IS					SBA 54
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 13 50 56							
	E	Z 51 12							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	14 09 19.2	23.8S 177.5W	213KM	4.7 S OF FIJI IS					SBA 55
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 14 18 27							
	E*PP	Z 19 22							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	17 05 23.4	20.4S 178.3W	539KM	5.4 FIJI IS					SBA 58
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 14 21 51		-1.16					5.2
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	17 05 23.4	20.4S 178.3W	539KM	5.4 FIJI IS					SBA 58
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 17 14 27		-1.30					5.1
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 08	20 22 54.2	6.9N 126.4E	33KM	PHILIPPINE IS					SBA 87
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 20 35 43		-2.13					5.2

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 09	05 30 44.7	24.1S 177.1W	33KM	4.2 S OF FIJI IS					SBA 54
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 05 40 13		-1.93					5.2
	(*PP)	ZNE 18.6							
EP 11	SBA EP	Z 04 35 11		-1.60					
	E	Z 36 04							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 11	11 04 39	26.4S 177.8W	217KM	4.7 S OF FIJI IS					SBA 52
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 11 13 28		-1.65					5.0
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 12	06 30 00	1.7N 127.8E	172KM	HALMAHERA					SBA 82
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 06 42 04		-1.73					5.1
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 12	10 48 19.2	24.7S 170.5E	33KM	4.0 LOYALTY IS					SBA 53
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZN 10 57 38							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 12	12 43 19.0	4.4S 144.0E	120KM	6.3 NEW GUINEA					SBA 74
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 12 54 46		-0.71					6.1
	*SP	E 55 33					8	9	22 11 6.8
	S	NE 13 04 17							
	E	N 49							10 50
	LQ	E 15 47							
	LR	N 19 11					16	46	
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 12	15 19 22.3	17.4S 179.9W	561KM	5.8 FIJI IS					SBA 61
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 15 28 41		-1.19					5.2
	E*PP	Z 30 39							
	E	ZE 43							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 12	22 07 03.2	49.1S 164.2E	33KM	6.9 AUCKLAND IS					SBA 29
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 22 13 03		0.45					7.1
	EPP	N 14 03							
	E	E 15 29							
	EPCS	N 19 55							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 13	00 21 06.7	49.3S 163.7E	33KM	AUCKLAND IS					SBA 29
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 00 27 05		-1.01					5.6
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 13	11 03 50.0	19.8S 177.7W	357KM	5.2 FIJI IS					SBA 59
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 11 13 13		-1.50					5.0
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
EP 13	15 07 31.9	49.4S 163.3E	33KM	AUCKLAND IS					SBA 29
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 15 13 27		-1.50					5.1

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 13	15 52 24	15.8S 172.9W	33KM	4.7 SAMOA IS		SBA 63
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 16 02 47		-1.95		5.2
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 14	10 17 46.6	56.7N 157.4W	61KM	5.7 ALASKA		SBA 136
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EPKP	Z 10 37 03				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 14	11 58 31	41.9S 89.5W	33KM	4.5 S PACIFIC OCEAN		SBA 52
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 12 07 44				
	ELR	ZNE 23 07				
	E	Z 31 15		2 8		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 14	12 56 32.2	9.5S 111.8E	127KM	S OF JAVA		SBA 74
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 13 07 56		-2.12		4.7
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 14	20 40 26.5	45.2N 150.3E	33KM	5.0 KURILE IS		SBA 123
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EPKP	Z 20 59 22				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	01 00 08.0	15.6S 175.9W	9KM	4.9 TONGA IS		SBA 63
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 01 10 37		-1.73		5.5
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	05 37 45.4	0.1S 124.6E	33KM	5.3 MOLUCCA SEA		SBA 81
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA IP	ZNE 05 49 57.7 U		-1.29		5.9
	ES	ZNE 06 00 04				
	ESS	ZNE 04 50				
	ELR	ZNE 15 58		4 20		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	08 57 56.5	56.4S 27.2W	33KM	6.1 S SANDWICH IS		SBA 46
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 09 06 18		-1.65		5.2
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	11 44 13.7	22.2S 175.2W	33KM	4.7 TONGA IS		SBA 56
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 11 53 52		-1.81		5.3
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	12 44 12.2	16.0S 172.9W	33KM	5.3 SAMOA IS		SBA 63
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA P	ZNE 12 54 36		-1.27		5.9
	ELR	ZNE 13 13 10				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	13 12 54	15.8S 173.1W	33KM	4.6 TONGA IS		SBA 63
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 13 23 18				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	15 29 32.2	8.9N 93.1E	37KM	6.2 NICOBAR IS		SBA 95
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 15 42 54		-1.35		6.2
	E(*SP)	Z 43 13				

	E(PP)	Z 46 26			20 8 41 11	
	SKS	ZNE 53 23			24 8 58 9 7.9	
	S	ZNE 54 02				
	ESP	ZE 55 14				
	E(PKKP)	Z 59 19				
	ESS	ZNE 16 00 29				
	LQ	ZNE 07 01				
	LR	ZNE 14 17			53 38 16 20 22 21	
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	16 13 33	41.6S 73.6W	82KM	4.2 S CHILE		SBA 55
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 16 23 02				
	E	ZNE 12				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	18 37 10.1	6.6S 146.8E	59KM	5.1 E NEW GUINEA		SBA 72
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	Z 18 48 30				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	20 23 35.2	54.5S 53.4W	33KM	5.2 S ATLANTIC OCEAN		SBA 46
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 20 31 55		-1.29		5.6
	ES	ZN 38 25				
	ELR	ZNE 45 40				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	21 00 31.7	58.7S 66.5W	33KM	5.2 DRAKE PASSAGE		SBA 40
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 21 08 06		-1.44		5.3
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	01 26 26.9	10.9S 93.1E	47KM	5.7 ANDAMAN IS		SBA 76
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 01 39 56		-1.81		5.2
	ELQ	NE 02 07 42				
	ELR	ZNE 13 21		5 22		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	01 50 33.9	60.0N 147.1W	29KM	5.5 S ALASKA		SBA 140
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EPKP	ZNE 02 10 00				
	ESKP	Z 13 36				
	ELR	ZNE 53 35				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	05 20 46.1	5.9S 152.0E	29KM	6.2 NEW BRITAIN		SBA 72
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 05 32 12		-0.96		6.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	20 47 16.0	16.1S 176.5W	352KM	5.1 FIJI IS		SBA 62
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 20 57 04		-1.82		4.9
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 17	06 59 37.8	26.5S 176.4W	33KM	4.8 S OF FIJI IS		SBA 52
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA P	ZNE 07 08 46		-1.34		5.7
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 17	07 41 13.9	15.6S 72.9W	118KM	5.0 S PERU		SBA 81
		H M S	DIR	LOG.A/T AZ TZ AN TN		AE TE MAG
	SBA EP	ZNE 07 53 18		-1.68		5.2

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 17	15 02 00.9	44.5N 31.3W	24KM	5.6	N ATLANTIC RIDGE				SBA 146	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EPKP?	Z 15 21 38								
	IPKP	Z 39.8								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 17	15 06 13.8	12.8S 168.9E	622KM	4.5	SANTA CRUZ IS				SBA 65	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	P	ZNE 15 15 55		-1.73						4.8

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 18	13 06 00.2	5.9S 103.4E	86KM	5.3	S SUMATRA				SBA 79	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZN 13 18 05								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 18	13 12 42.3	39.8N 29.7W	20KM	5.5	AZORES IS				SBA 141	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EPKP	Z 13 32 08								

SEP 20	SBA EP	ZNE 02 43 54		-1.81						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 20	04 20 17.6	49.5S 116.2W	33KM	4.5	EASTER IS CORD				SBA 39	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 04 27 51								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 20	04 33 29.4	49.6S 116.2W	33KM	5.2	EASTER IS CORD				SBA 39	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 04 41 03		-1.14						5.6
	ELQ	N 50 01					23	34		
	ELR	ZE 52 12				11	20		13	19

SEP 20	SBA EP	ZNE 22 24 43		-1.81						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 21	04 23 19.7	21.8S 179.6W	609KM	5.4	FIJI IS				SBA 56	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	IP	ZNE 04 32 06.8	D	-0.79						5.6
	E•PP	Z 34 06								
	ES	NE 39 18								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 21	05 37 48.9	7.0S 129.4E	123KM	5.2	BANDA SEA				SBA 73	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 05 49 11		-1.81						5.1

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 21	08 30 54.4	2.1S 128.3E	36KM	5.7	CERAM SEA				SBA 78	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 08 42 53		-1.74						5.4

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 21	12 01 46.6	17.8S 167.3E	33KM	5.1	NEW HEBRIDES IS				SBA 60	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 12 11 53		-1.63						5.6

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 21	14 17 54.4	36.2S 100.2W	33KM	4.8	S PACIFIC OCEAN				SBA 56	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	P	ZNE 14 27 29		-1.71						5.4

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 21	18 10 51.6	30.1S 179.5W	319KM	5.2	KERMADEC IS				SBA 48	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 18 19 05		-1.78						4.6
	E(PCP)	Z 20 20								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 22	09 05 06.4	23.9S 70.7W	33KM	4.7	N CHILE				SBA 73	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	IP	ZNE 09 16 36.7	U	-1.41						5.7

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 22	20 39 07.0	2.8S 141.0E	84KM	5.7	NEW GUINEA				SBA 76	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 20 50 49		-1.95						5.0

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 23	04 59 47.4	53.6N 163.9W	29KM	5.5	UNIMAK IS				SBA 132	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EPKP	ZNE 05 19 16								
	ESKP	Z 22 23								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 23	07 52 39	13.1S 14.8W	33KM	5.0	S ATLANTIC RIDGE				SBA 89	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 08 05 34		-1.81						5.6

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 23	17 18 12.1	5.8N 126.4E	132KM		PHILIPPINE IS				SBA 86	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 17 30 42		-1.83						5.1

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 23	20 39 07.0	2.8S 141.0E	84KM	5.7	NEW GUINEA				SBA 76	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 20 50 49		-1.95						5.0

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 24	09 14 38.6	5.6S 151.8E	35KM	5.3	NEW BRITAIN				SBA 73	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 09 26 06								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 24	13 59 36.8	43.5N 127.5W	14KM	6.1	OFF OREGAN				SBA 127	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EPKP	Z 14 18 45								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 25	15 42 17.9	50.3N 176.6E	30KM	5.5	ALEUTIAN IS				SBA 128	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EPKP	ZNE 16 01 21								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 25	20 28 33.5	3.8S 139.0E	171KM	5.8	W NEW GUINEA				SBA 75	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	EP	ZNE 20 40 01								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)	
SEP 25	23 27 49.7	30.7S 179.9W	424KM	5.3	KERMADEC IS				SBA 48	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE MAG
SBA	P	ZNE 23 35 48		-1.03						5.4
	E	Z 36 15								
	(•PP)	ZNE 37 10								
	SCP	ZNE 40 24								
	ESCS	N 45 08								

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 26	00 46 02.8	30.1N 80.7E	50KM	6.2 TIBET-INDIA BORDER		SBA 118
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EPKP	ZNE 01 04 46				
	ELR	ZNE 41 59		4 24		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 26	03 38 32.7	17.7S 173.3W	33KM	5.1 TONGA IS		SBA 61
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 03 48 45		-1.58		5.6
	ES	E 57 13			4 9	6.3
	ELR	ZN 04 07 20				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 26	07 50 19	49.0S 164.5E	33KM	5.2 AUCKLAND IS		SBA 29
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 07 56 22		-2.11		4.5
	ELR	ZNE 08 03 48				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 26	22 55 14.8	4.9S 153.5E	34KM	5.5 NEW IRELAND		SBA 73
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA P	ZNE 23 06 45		-0.99		6.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 27	06 36 25.3	16.1S 176.0W	332KM	4.5 FIJI IS		SBA 62
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA P	ZNE 06 46 16		-1.82		4.9
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 27	07 53 53.4	2.2N 126.5E	70KM	5.3 MOLUCCA PASSAGE		SBA 83
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 08 06 14		-1.95		5.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 27	09 53 36.6	2.3N 126.7E	100KM	5.1 MOLUCCA PASSAGE		SBA 83
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 10 05 52		-1.28		5.7
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 27	13 24 23.9	28.3S 178.3W	220KM	4.2 KERMADEC IS		SBA 50
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA P	ZN 13 32 59		-1.41		5.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 27	15 24 17.2	11.3S 116.6E	33KM	5.2 S OF SUMBAWA IS		SBA 71
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZN 15 35 40				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 27	15 50 54.7	56.6N 152.0W	27KM	5.4 KODIAK IS		SBA 137
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EPKP	ZN 16 10 18				
	ELR	Z 55 16				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 27	22 01 40.2	5.5S 151.6E	50KM	5.4 NEW BRITAIN		SBA 73
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZN 22 13 06		-1.93		5.1
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 27	22 58 29.3	21.4S 68.7W	132KM	5.4 NEW BRITAIN		SBA 76
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZN 23 10 05		-1.87		4.9

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
EP 28	05 39 34.8	40.0S 74.1W	33KM	4.7 S CHILE		SBA 57
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA P	ZNE 05 49 18		-1.81		5.3
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
EP 28	06 51 05.3	36.3N 71.6E	118KM	5.5 AFGHANISTAN-USSR		SBA 126
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA E(*PPKP)	ZN 07 10 23				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
EP 28	12 53 55.1	22.0S 179.4W	548KM	4.1 S OF FIJI IS		SBA 56
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA P	ZNE 13 02 47		-1.81		4.6
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
EP 28	22 39 46	2.5S 138.7E	82KM	4.7 W NEW GUINEA		SBA 77
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA E(P)	Z 22 51 49				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
EP 29	05 30 59.5	18.1S 175.4W	197KM	4.8 TONGA IS		SBA 60
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	Z 05 40 51		-1.82		5.0
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
EP 29	14 00 14.9	20.4S 174.4W	29KM	5.7 TONGA IS		SBA 58
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA IP	ZNE 14 10 10.4 U		-0.42		6.8
	S	ZNE 18 19				
	E	E 20 04				
	LQ	E 25 14				
	LR	ZN 26 58		12 20 11 20		
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 30	03 47 00.3	22.9S 179.1W	368KM	3.9 S OF FIJI IS		SBA 55
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 03 56 01		-1.58		4.9
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 30	08 23 12.2	32.5S 71.6W	33KM	4.3 CENTRAL CHILE		SBA 65
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 08 33 49				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 30	14 46 28.9	11.6S 166.5E	118KM	3.9 SANTA CRUZ IS		SBA 66
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	Z 14 57 06				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
OCT 01	02 33 03	10.5S 13.3W	33KM	5.1 ASCENSION IS		SBA 92
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	Z 02 46 11				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
OCT 01	02 47 43.7	4.0S 153.5E	128KM	NEW IRELAND		SBA 74
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EP	ZNE 02 59 08		-1.82		5.0
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
OCT 02	00 58 39.2	51.9N 142.9E	33KM	5.7 SAKHALIN IS		SBA 130
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE	MAG
	SBA EPKP	Z 01 17 47				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 02	04 31 21.0	23.6S 179.6W	503KM		S OF FIJI IS				SBA 55
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 04 40 05		-1.52					4.9
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 02	09 47 27.2	10.4S 162.4E	58KM	5.2	SOLOMON IS				SBA 67
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	Z 09 58 18							
	E	ZNE 19							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 02	13 00 39.7	10.5S 162.4E	68KM	6.0	SOLOMON IS				SBA 67
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 13 11 30		-0.49					6.5
	(*PP)	ZNE 44							
	S	ZNE 20 30							
	ELQ	NE 28 09							
	ELR	Z 29 38							
	EPKPPKP	ZNE 39 55				14 17			
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 02	16 52 06.4	21.7S 67.7W	49KM	5.0	CHILE-BOLIVIA				SBA 76
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 17 03 50		-1.68					5.3
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 02	22 23 32.4	59.7N 144.5W	22KM	5.2	GULF OF ALASKA				SBA 140
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZN 22 42 52							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 03	01 55 00.2	21.0S 178.5W	547KM	5.0	FIJI IS				SBA 57
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZN 02 04 00		-1.95					4.4
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 03	13 39 39.9	61.4N 147.1W	48KM	5.2	S ALASKA				SBA 142
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZNE 13 59 12							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 03	16 52 20.7	26.7S 177.7W	134KM	4.5	S OF FIJI IS				SBA 52
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 17 01 16		-1.63					5.3
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 03	22 00 53.8	10.3S 164.5E	66KM	4.4	SANTA CRUZ IS				SBA 68
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 17 11 56		-1.27					5.8
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 03	22 41 09.0	20.2S 176.3W	219KM	4.4	FIJI IS				SBA 58
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 22 50 44.5	D	-1.47					5.3
OCT 04	SBA EP	ZNE 01 46 33							
	ES	NE 51 22							
	ESS	Z 52 52							
	LQ	NE 53 14						15 19	
	ELR	Z 54 24							
OCT 04	SBA EP	ZNE 09 26 33		-1.70					
	E(S)	N 32 06							
	EL	ZNE 33 34							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 05	03 35 08.4	42.6N 142.6E	38KM	5.0	HOKKAIDO JAPAN				SBA 121
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZN 03 53 57							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 05	08 30 15.7	16.7S 173.7W	33KM	5.1	TONGA IS				SBA 62
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 08 40 35.3	U	-1.33					5.8
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 05	12 24 06.4	16.6S 174.2W	84KM		TONGA IS				SBA 62
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA IP	ZNE 12 34 20.7	U	-1.35					5.8
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 05	13 12 15.5	22.3S 171.6E	145KM	4.9	LOYALTY IS				SBA 56
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 13 21 38		-1.58					5.4
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 05	13 58 56.9	22.2S 175.8W	33KM	5.1	TONGA IS				SBA 56
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA P	ZNE 14 08 38		-1.52					5.6
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 06	07 17 57.1	36.2S 100.9W	33KM	5.5	S PACIFIC OCEAN				SBA 55
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 07 27 29		-1.44					5.7
	ELQ	N 40 59						21 26	
	ELR	Z 43 40					17 28		
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 06	14 29 55.6	40.2N 28.1E	10KM	5.1	TURKEY				SBA 139
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZNE 14 49 24							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 06	14 31 19.2	40.3N 28.2E	10KM	6.0	TURKEY				SBA 139
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EPKP	ZNE 14 50 44							
	EPKP	ZNE 56							
	PP	ZE 53 38							
	PKS	NE 54 26							
	PPS	Z 15 06 06							
	ESSS	ZNE 17 14							
	ELR	ZNE 37 08					82 18	56 20	34 18
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 06	19 12 12.0	16.1S 168.6E	21KM	5.4	NEW HEBRIDES IS				SBA 62
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 19 22 32		-1.57					5.6
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 07	01 24 45.2	20.7S 177.8W	328KM	4.4	FIJI IS				SBA 58
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 01 34 05		-1.81					4.7
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 07	03 52 11.3	6.8S 155.2E	70KM	5.5	SOLOMON IS				SBA 71
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA EP	ZNE 04 03 26							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 09	21 34 09.2	16.2S 171.9W	33KM	5.8 SAMOA IS				SBA 63	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA P	ZNE 21 44 32				4 4			6.9
	E(PS)	NE 53 13							
	ELQ	E 22 00 20							
	ELR	ZNE 02 17					3 19		

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 10	07 56 40.5	25.2S 180.0E	432KM	3.8 S OF FIJI IS				SBA 53	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	Z 08 05 17							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 10	08 31 07.7	23.8S 179.7W	441KM	S OF FIJI IS				SBA 54	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	ZNE 08 39 55		-1.50					4.9

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 10	17 13 30	30.2S 179.3W	294KM	KERMADEC IS				SBA 48	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	Z 17 21 45							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 10	19 38 47.7	60.4N 146.1W	44KM	5.3 S ALASKA				SBA 141	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EPKP	Z 19 58 12							
	ELR	ZNE 20 52 38							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 10	20 06 39.8	60.5N 145.4W	31KM	5.4 S ALASKA				SBA 141	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EPKP	ZNE 20 26 05							
	ELR	Z 21 18 04				3 17			

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 11	00 13 13.4	16.2S 168.2E	17KM	5.3 NEW HEBRIDES IS				SBA 62	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	ZNE 00 23 33		-1.81					5.4

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 11	10 21 01.1	6.3S 145.7E	138KM	5.0 NEW GUINEA				SBA 72	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	Z 10 32 16							
	E*PP	ZNE 55							
	ELR	ZNE 51 52							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 11	11 10 33.6	13.6S 166.6E	68KM	5.0 NEW HEBRIDES IS				SBA 64	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA P	ZNE 11 21 03		-1.50					5.6
	E*SP	ZE 25							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 11	14 19 11.5	17.9S 71.5W	35KM	5.2 PERU				SBA 79	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	ZNE 14 31 16		-1.87					5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 11	20 52 14.0	15.1S 167.6E	241KM	NEW HEBRIDES IS				SBA 63	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA P	ZNE 21 02 16		-1.68					5.1

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 11	21 15 03.9	0.6S 121.7E	33KM	6.3 N CELEBES				SBA 81	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA IP	ZNE 21 27 16.3	D	0.10					7.3
	S	ZNE 37 28					12 15		6.7
	ESS	ZNE 42 35							
	SSS	Z 46 04				9 24			
	ELQ	NE 48 43					32 44	36 34	
	LR	ZNE 52 59				75 18	61 18	58 19	

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 11	23 33 23.9	6.0N 126.7E	121KM	5.4 PHILIPPINE IS				SBA 87	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	ZNE 23 43 54							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 12	01 02 03	12.3S 166.7E	35KM	SANTA CRUZ IS				SBA 66	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	ZN 01 12 44		-1.93					5.2
OCT 12	SBA EP	ZNE 05 57 06		-1.78					
	ELR	ZNE 06 11 49							
OCT 12	SBA EP	ZNE 08 37 34		-1.53					
	ES	N 44 34							
	ESS	NE 47 52							
	ELR	ZNE 51 28				4 24	4 24		
OCT 12	SBA EP	ZNE 08 39 27		-1.65					
OCT 12	SBA EP	ZNE 08 44 03		-1.61					

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 12	09 14 52.2	55.9S 144.1W	33KM	5.3 S PACIFIC CORD				SBA 28	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	ZNE 09 20 41		-1.46					5.1
	ES	E 25 32						2 11	5.4
	LQ	NE 26 34					5 18		
	ELR	ZE 27 26				7 25		6 16	

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 12	13 55 21.5	14.8S 167.4E	131KM	NEW HEBRIDES IS				SBA 63	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA P	ZN 14 05 38		-1.95					5.1

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 12	15 42 54.7	3.0N 126.7E	59KM	5.9 TALAUD IS				SBA 84	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	ZNE 15 55 20		-0.90					6.2
	S	ZNE 16 05 40							
	ESS	ZN 10 14							
	ELQ	NE 17 44				7 30	4 31		
	ELR	ZN 21 51							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 12	21 55 33.2	31.3S 110.8W	25KM	6.0 EASTER IS				SBA 58	
		H M S	DIR	LOG.A/T	AZ	TZ	AN TN	AE TE	MAG
	SBA EP	ZNE 22 05 26		-0.54					6.6
	S	ZNE 13 34							
	ESS	Z 17 26					12 30		
	ELQ	N 20 24				29 27		29 22	
	ELR	ZE 22 36							
	EPKPPKP	Z 35 11							

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 13	03 13 42	16.3S 174.2W	167KM	4.7 TONGA IS	SBA 62
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 03 23 48		-1.65	5.3

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 13	05 31 43	1.9N 126.5E	16KM	5.1 MOLUCCA PASSAGE	SBA 83
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 05 44 10			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 13	10 38 59.3	3.3S 149.9E	59KM	5.1 BISMARCK SEA	SBA 75
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 10 50 37		-1.31	5.7
	ES	NE 11 00 18			
	ESS	Z 04 49			
	ELQ	E 10 41			
	ELR	ZN 14 14		3 18	

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 13	18 12 14.5	22.1S 170.5E	41KM	4.7 LOYALTY IS	SBA 56
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 18 21 49		-1.95	5.2

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 13	23 02 26	35.8N 71.1E	120KM	5.8 W PAKISTAN	SBA 126
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 23 02 16			
OCT 14	SBA EP	ZNE 09 47 45		-1.78	
	EL	ZNE 10 05 26			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 14	12 06 38.1	5.7S 150.5E	89KM	4.0 NEW BRITAIN	SBA 73
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 12 17 59			
OCT 14	SBA EP	ZNE 21 35 52		-2.11	

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 15	02 07 06.4	6.6S 154.8E	62KM	5.1 SOLOMON IS	SBA 71
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 02 18 23			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 15	20 26 53.5	44.7N 149.8E	49KM	5.2 KURILE IS	SBA 123
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 20 45 44			
	ESP	ZN 57 33			
	ESS	NE 21 04 14			
	ESSS	Z 08 09			
	ELR	ZNE 23 26			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 15	22 59 43.6	56.8N 151.9W	33KM	5.2 KODIAK IS	SBA 137
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZN 23 19 10			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 16	06 15 31.5	23.6S 177.6W	178KM	5.5 S OF FIJI IS	SBA 55
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 06 24 47		-1.26	5.6
	EPCP	Z 25 44			
	S	N 32 14		9 10	6.7

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 16	06 59 38.6	44.3N 149.5E	33KM	5.5 KURILE IS	SBA 122
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 07 18 31			
	EPP	Z 20 10		5 11	6.9
	ESKS	N 25 36			
	ESKKS	N 27 08			
	E	E 28 18			
	EPS	ZN 30 10			
	ESS	ZNE 36 28			
	ELQ	E 50 44			
	ELR	Z 56 52			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 16	07 21 42.7	44.2N 149.4E	33KM	5.2 KURILE IS	SBA 122
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 07 40 38			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 16	08 18 28.3	44.6N 149.4E	33KM	5.2 KURILE IS	SBA 123
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 08 37 20			
	EPKP	ZNE 26			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 16	09 18 16.6	44.5N 149.1E	33KM	5.4 KURILE IS	SBA 123
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 09 37 09			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 17	01 38 36.0	7.0S 155.8E	58KM	4.7 SOLOMON IS	SBA 71
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 01 49 50		-1.30	5.7
	ES	NE 59 09			
	ESS	ZN 02 03 24			
	ELQ	E 08 30			
	ELR	ZNE 11 15		4 21 4 20	

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 17	02 00 03.3	59.5N 145.5W	33KM	5.2 GULF OF ALASKA	SBA 140
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EPKP	Z 02 19 21			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 17	03 17 28.1	0.7N 119.3E	62KM	5.4 N CELEBES	SBA 82
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 03 29 45.7	U	-1.56	5.5

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 17	05 55 54.4	22.3S 171.5E	116KM	5.3 LOYALTY IS	SBA 56
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 06 05 20.1	D		
	ES	NE 13 06			
	ESS	ZN 17 30			
	ELR	ZNE 22 09		5 30	

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 17	08 06 17.2	37.2S 52.2E	33KM	S INDIAN OCEAN	SBA 59
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 08 16 15		-1.28	5.9
	ELR	ZNE 35 14			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
1964 OCT 17	10 02 37	21.8S 170.2E	33KM	LOYALTY IS	SBA 56
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 10 12 16		-1.83	5.3

		ELR	Z	31 46									
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 17	15 01 14.0	7.1S 129.4E	117KM	5.5	BANDA SEA							SBA 73	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA IP	ZNE 15 12 35.4	U	-1.63							5.2		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 17	18 25 46.8	0.6S 122.2E	152KM	4.9	N CELEBES							SBA 81	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 18 37 46											
OCT 17	SBA EP	ZNE 22 01 54		-1.47									
	EL	ZNE 07 14					2	10					
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 18	06 16 35.2	44.4N 149.7E	33KM	5.1	KURILE IS							SBA 122	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EPKP	Z 06 35 29											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 18	09 06 26.0	2.9N 65.7E	33KM	6.3	CARLSBERG RIDGE							SBA 95	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 09 19 54											
	ES	E 31 20											
	ELQ	N 46 45											
	ELR	ZE 51 30											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 18	09 26 57.3	14.4S 167.0E	50KM	4.3	NEW HEBRIDES IS							SBA 63	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZN 09 37 26		-1.93							5.2		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 18	12 32 24.1	7.0S 124.0E	574KM	5.8	BANDA SEA							SBA 74	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 12 43 03		-0.52		6	12				6.0		
	E•PP	ZNE 45 02											
	ES	ZNE 51 50							104	10	169 10	7.7	
	E•SS	NE 55 19											
	ESS	ZN 56 50											
	ESSS	ZN 13 00 21					52	24					
	E(L)	Z 02 46											
	ELR	ZN 09 09					37	24	32	22	28 20		
	EPKPPKP	ZNE 10 27											
	ESKPPKP	Z 12 45											
	EPKP(3)	ZNE 30 09											
	E	Z 32 56											
	PHASE AT 13 32 56 IS SKPPKPPKP												
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 18	20 03 35	16.4S 174.3W	189KM	4.2	TONGA IS							SBA 62	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	Z 20 13 29											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 18	22 31 37.7	19.4S 179.1W	666KM	4.8	FIJI IS							SBA 59	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA P	ZNE 22 40 38		-1.50							4.8		
	E•PP	Z 42 47											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
OCT 18	23 52 34.3	5.9S 105.0E	79KM		SUNDA STRAIT							SBA 78	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA IP	ZNE 24 04 27.9	D	-1.58							5.4		

	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 19	08 50 30.4	24.7S 179.6W	475KM	4.3	S OF FIJI IS							SBA 54	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZN 08 59 09		-1.78							4.6		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 19	13 29 29.4	4.6S 152.9E	70KM	4.9	NEW BRITAIN							SBA 74	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	Z 13 40 57											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 19	13 54 29.1	14.4S 166.4E	9KM	4.6	NEW HEBRIDES IS							SBA 63	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 14 05 03		-1.93							5.3		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 19	21 17 59.8	36.1S 73.5W	33KM	4.9	CENTRAL CHILE							SBA 61	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 21 28 06		-1.61							5.6		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 20	00 49 05.7	19.6S 174.8W	29KM	5.1	TONGA IS							SBA 59	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 00 59 06		-1.93							5.3		
T 20	SBA EP	ZNE 07 41 44											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 20	20 04 02	23.9S 179.0W	165KM	4.7	S OF FIJI IS							SBA 54	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 20 13 17		-1.93							5.0		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 20	23 13 00.4	3.0S 128.6E	33KM	4.4	CERAM							SBA 77	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	Z 23 24 54											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 21	07 38 31.0	44.8N 111.6W	33KM	5.8	HEBGEN LAKE							SBA 132	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EPKP	Z 07 56 40											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 21	10 08 46.7	14.1S 166.7E	45KM	4.4	NEW HEBRIDES IS							SBA 64	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 10 19 17		-1.95							5.2		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 21	11 48 30.9	2.7S 138.9E	99KM		W NEW GUINEA							SBA 77	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZNE 12 00 14		-1.95							4.9		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 21	20 56 59	15.1S 173.0W	33KM	5.0	TONGA IS							SBA 64	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP	ZN 21 07 28		-1.93							5.2		
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
T 21	23 09 18.8	28.1N 93.8E	37KM	5.9	INDIA-CHINA BORDER							SBA 114	
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EPKP	ZNE 23 28 05											
	SKS	NE 34 48											
	SKKS	E 35 54											
	SP	ZNE 38 13											
	ESS	E 44 32											

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 23	01 56 03.2	19.8N 56.0W	31KM	6.4 N ATLANTIC OCEAN				SBA 118	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EPKP	ZNE 02 14 49							
	EPP	ZNE 16 09							
	EPKS	N 18 26							
	E(SKKS)	NE 23 58							
	EPKKP	Z 25 07							
	EPS	ZNE 53							
	EPPS	Z 27 31							
	EPCPPKP	Z 28 42							
	ESS	ZNE 32 27							
	ELQ	NE 45 08							
	ELR	ZNE 53 35						16 18	18 22

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 23	06 53 25.1	2.7S 142.1E	33KM	4.6 NEW GUINEA				SBA 76	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 07 05 11							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 23	09 39 06.2	28.2S 177.3W	68KM	4.6 KERMADEC IS				SBA 50	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	P	ZNE 09 48 03		-1.39					5.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 23	21 06 24.2	44.0N 147.5E	45KM	5.9 KURILE IS				SBA 122	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EPKP	ZNE 21 25 16							
OCT 24	SBA EP	ZNE 04 37 09		-1.82					

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 24	09 51 27.3	19.1S 169.7E	33KM	NEW HEBRIDES IS				SBA 59	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 10 01 24		-1.71					5.5

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 24	22 04 57.5	4.5S 152.9E	49KM	5.8 NEW BRITAIN				SBA 74	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	(P)	ZNE 22 16 11		-1.83					5.2
	E	Z 31							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 25	06 25 48.6	2.0S 77.2W	160KM	5.3 PERU-ECUADOR				SBA 93	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 06 38 48		-1.53					5.8

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 25	10 01 48	15.3S 173.3W	33KM	5.0 TONGA IS				SBA 63	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 10 12 18		-1.71					5.5

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 25	12 08 46.9	21.7S 179.2W	534KM	5.5 FIJI IS				SBA 57	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	IP	ZNE 12 17 42.4 U		-0.93					5.5
	E•PP	Z 19 41							
	SCP	Z 21 30							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 25	22 56 32.8	2.0S 79.0W	57KM	5.4 ECUADOR				SBA 93	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 23 09 43		-1.93					5.6

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 26	04 05 37.0	49.1S 163.7E	33KM	AUCKLAND IS				SBA 29	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	Z 04 11 35		-1.93					4.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 26	14 22 57.8	2.2N 126.8E	48KM	6.0 MOLUCCA PASSAGE				SBA 83	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	IP	ZNE 14 35 19.4 U		-1.13					6.0
	ELR	ZNE 15 02 43					1 30		

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 27	19 46 12.0	47.8N 16.1E	39KM	5.6 AUSTRIA				SBA 148	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EPKP	ZNE 20 06 05							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 27	20 00 35	27.6S 176.8W	168KM	4.5 KERMADEC IS				SBA 51	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 20 09 28		-1.53					5.2
	ESS	Z 20 28							
	ELR	Z 24 18					1 22		

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 27	21 24 31.2	45.6S 96.1E	33KM	SE INDIAN RISE				SBA 42	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 21 32 20		-0.72					6.0
	EPP	ZE 34 10					12 7		6.8
	S	ZNE 38 46					19 11	11 8	39 11 6.9
	ESS	ZN 41 59							
	ELQ	N 42 54							
	ELR	ZNE 44 19					53 17	47 17	79 21

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 27	22 36 18	58.5S 66.2W	33KM	5.4 DRAKE PASSAGE				SBA 40	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 22 43 54		-0.98					5.8
	S	NE 50 07							
	E	Z 28							
	LQ	N 53 01					7 17	8 16	7 16
	ELR	ZNE 55 01							
OCT 28	SBA P	ZNE 00 19 53		-1.81					

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 29	06 51 46	13.4S 166.6E	43KM	4.9 NEW HEBRIDES IS				SBA 64	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZNE 07 02 20		-1.52					5.6

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 29	19 09 59	17.8S 168.1E	33KM	4.4 NEW HEBRIDES IS				SBA 60	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	Z 19 20 06		-1.95					5.3

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 30	02 22 50.0	32.6S 69.9W	92KM	4.2 ARGENTINA				SBA 65	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	ZE 02 20 05							
	S	N 27 56					15 42		
	LQ	NE 33 52							
	ELR	Z 36 48							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)	
OCT 31	08 50 14.0	14.4S 173.0W	235KM	4.1 SAMOA IS				SBA 64	
		H M S	DIR	LOG•A/T	AZ	TZ	AN TN	AE TE	MAG
SBA	EP	Z 09 00 09							

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 01	02 56 41.4	25.1S 179.7W	459KM	5.0	S OF FIJI IS	SBA 53
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 03 05 19				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 01	12 26 06.2	3.1N 128.1E	65KM	6.3	N OF HALMAHERA	SBA 84
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	Z 12 38 29.3 U				
	S	NE 48 46				
	LR	NE 13 01 09				
	LQ	Z 06 14				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 01	16 43 41	27.3S 178.5W	366KM	4.0	KERMADEC IS	SBA 51
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 16 52 10				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 02	05 03 52.3	7.5S 128.7E	48KM	4.5	BANDA SEA	SBA 73
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 05 15 19				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 02	06 50 58.2	4.1S 76.9W	91KM	6.0	N PERU	SBA 91
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	Z 07 03 56				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 02	08 10 05.5	16.9S 169.7E	255KM	4.7	NEW HEBRIDES IS	SBA 61
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 08 20 03				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 03	12 43 04.7	0.1N 123.7E	149KM	5.4	N CELEBES	SBA 81
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 12 55 06.0 U				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 03	18 28 58.6	1.7S 149.8E	35KM	5.8	NEW IRELAND	SBA 77
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 18 40 51				
NOV 04	SBA P	ZNE 02 43 14				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 04	21 02 38.7	6.8N 125.4E	70KM		PHILIPPINE IS	SBA 88
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 21 15 21				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 05	01 47 42.1	5.1S 146.1E	137KM		E NEW GUINEA	SBA 74
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 01 59 07				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 05	04 19 39.5	5.5S 147.2E	197KM	4.9	E NEW GUINEA	SBA 73
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 04 30 51				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 05	07 01 15.3	9.2N 142.0E	33KM	4.8	CAROLINE IS	SBA 88
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 07 14 07				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 05	09 07 32	20.3S 174.0W	15KM	4.7	TONGA IS	SBA 58
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 09 17 29				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 06	09 53 22.4	44.4N 149.0E	60KM	5.7	KURILE IS	SBA 122
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EPKP	ZNE 10 12 13				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 06	13 55 53.7	31.7S 57.4E	33KM	5.9	ATLANTIC RIDGE	SBA 63
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 14 06 20				
	S	ZNE 15 10				
	EL	ZNE 25 48				
NOV 06	SBA EP	ZN 16 28 46				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 07	18 37 43.7	0.4N 100.1E	107KM	5.1	N SUMATRA	SBA 86
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 18 50 13				
	ES	NE 19 00 36				
	ESS	E 06 41				
	ELR	NE 17 06				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 07	23 41 55.1	19.9S 177.4W	281KM	4.5	FIJI IS	SBA 59
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 23 51 24.0 D				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 08	02 43 57	49.0S 163.7E	33KM	5.6	AUCKLAND IS	SBA 29
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 02 49 57				
	S	E 54 50				
	LR	E 56 07				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 09	04 44 19.9	7.2S 128.2E	129KM	5.3	BANDA SEA	SBA 73
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 04 55 37				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 12	05 33 29	18.2S 176.4W	107KM	5.2	FIJI IS	SBA 60
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA EP	Z 05 43 32				
	S	E 51 58				
	L	NE 06 01 16				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 13	21 57 30	29.2S 178.1W	77KM	5.4	KERMADEC IS	SBA 49
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 22 06 13.0 D		-0.63		6.5
	S	N 13 30				
	LR	Z 20 10				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 14	16 54 50.7	5.3S 148.8E	228KM	4.3	E NEW GUINEA	SBA 73
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 17 05 59.3 D				

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 14	19 06 14.6	18.1S 168.0E	5KM	4.4 NEW HEBRIDES IS	SBA 60
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA P	Z 19 16 22			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 15	07 22 08.0	18.0S 178.3W	608KM	4.2 FIJI IS	SBA 60
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 07 31 21.2 U			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 15	16 45 44.8	49.5S 163.6E	33KM	AUCKLAND IS	SBA 28
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 16 51 40			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 16	08 54 09	56.1S 27.5W	163KM	4.9 S SANDWICH IS	SBA 46
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 09 02 18			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 16	22 40 44	1.0N 118.8E	33KM	6.7 BORNEO	SBA 83
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 22 53 07			
	ES	N 23 03 30			
	EL	ZN 20 38			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 17	00 01 17.1	16.3S 173.7W	33KM	5.4 TONGA IS	SBA 62
		H M S	DIR	LOG.A/T AZ TZ AN TN.	AE TE MAG
	SBA EP	ZNE 00 11 39			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 17	02 46 35	55.5S 27.9W	115KM	5.0 S SANDWICH IS	SBA 47
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 02 54 54			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 17	08 15 39.3	5.7S 150.7E	45KM	6.7 NEW BRITAIN	SBA 73
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 08 27 04.3 U		0.30	7.3
	S	NE 36 32			
	PKPPKP	Z 54 43			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 17	11 03 06.8	23.4S 179.9W	549KM	5.5 S OF FIJI IS	SBA 55
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 11 11 48.1 U		-1.01	5.4
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 18	14 34 54.5	6.0S 148.2E	49KM	6.1 NEW BRITAIN	SBA 72
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 14 46 18 U			
	IS	ZNE 55 42 DSW			
	SS	ZNE 15 00 09			
	SSS	ZNE 04 14			
	L	ZNE 08 06			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 18	22 21 01.9	20.2S 174.1W	33KM	5.8 TONGA IS	SBA 58
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA IP	ZNE 22 30 55.7 D			
	S	ZNE 39 04			
		E 40 56			
	ELQ	Z 50 29			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 18	23 35 03.9	20.1S 174.3W	33KM	5.1 TONGA IS	SBA 59
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 23 44 58			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	15 45 31.2	3.4S 150.1E	38KM	5.7 NEW IRELAND	SBA 75
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 15 57 11			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	23 35 06.0	6.0S 150.8E	3KM	6.0 NEW BRITAIN	SBA 72
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 23 46 35			
	ES	ZNE 56 02			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 20	23 55 06.8	6.9S 149.9E	33KM	5.6 NEW BRITAIN	SBA 71
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 00 14 25			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	02 16 44.5	1.0N 124.0E	248KM	5.8 N CELEBES	SBA 82
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 02 28			
	IS	NE 38 36 N			
	ELR	NE 50 00			
	ELQ	ZNE 53 18			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	04 01 02.0	1.9N 96.8E	33KM	5.2 OFF N SUMATRA	SBA 88
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZNE 04 13 57			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	06 19 16.0	14.9S 167.2E	97KM	5.1 NEW HEBRIDES IS	SBA 63
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 06 29 35			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	12 41 47.8	6.2S 150.5E	43KM	4.9 NEW BRITAIN	SBA 72
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA P	ZNE 12 52 11			
	S	NE 13 02 41			
	LR	Z 15 05			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	15 34 13.2	12.8N 145.2E	35KM	5.2 S OF MARIANA IS	SBA 91
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	Z 15 47 20			
	E(PP)	ZN 50 46			
	EL	Z 16 25 52			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	22 40 11.6	4.9S 103.6E	33KM	5.4 S SUMATRA	SBA 80
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA EP	ZN 22 52 17			
	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 22	02 38 29.0	17.9S 178.5W	563KM	5.0 FIJI IS	SBA 60
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
	SBA P	Z 02 47 47			

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 22	02 40 55.9	22.1S 171.1E	106KM	5.3 LOYALTY IS		SBA 56
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	P	ZNE 02 50 23.5				
	(PCP)	Z 47				
	LQ	Z 03 07 38				
	LR	E 04 42				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 22	04 17 13	8.1S 108.4E	33KM	4.6 JAVA		SBA 76
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	P	ZNE 04 28 57				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 22	05 46 33.3	6.2S 150.4E	47KM	5.4 NEW BRITAIN		SBA 72
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	IP	ZNE 05 57 55.2 U				
	S	NE 06 07 35				
	E	ZN 23 08				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 22	09 25 15.8	3.4S 130.7E	33KM	5.4 CERAM		SBA 77
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 09 37 07				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 23	09 01 11.0	6.5S 150.7E	63KM	4.9 NEW BRITAIN		SBA 72
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	P	ZNE 09 12 31				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 23	19 45 09.0	56.0S 27.6W	33KM	5.5 S SANDWICH IS		SBA 46
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	P	ZNE 19 53 32				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 23	22 15 47.0	0.1S 124.5E	66KM	5.7 MOLUCCA SEA		SBA 81
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	P	ZNE 22 27 56				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 24	01 38 49.6	6.3S 150.7E	33KM	5.5 NEW BRITAIN		SBA 72
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	IP	ZNE 01 50 13.1 U				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 24	05 48 32.8	8.2S 122.6E	33KM	5.1 FLORES IS		SBA 73
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	P	ZE 06 00 03				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 24	06 35 14.5	20.2S 179.2W	660KM	4.8 FIJI IS		SBA 58
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	Z 06 44 11				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 24	10 41 33.5	6.8S 107.4E	125KM	6.0 JAVA		SBA 77
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	IP	ZNE 10 53 14.8 U		-0.86		6.0

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 24	12 40 51.4	13.1N 124.7E	5KM	6.1 PHILIPPINE IS		SBA 94
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 12 54 14				
	EPP	NE 58 08				
	ES	NE 13 04 48				

	ESS	NE	17 48
	ELQ	NE	21 28

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 25	08 31 32.9	16.1S 175.1W	302KM	4.7 TONGA IS		SBA 62
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	Z 08 41 27				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 25	09 24 08.9	4.3S 122.2E	610KM	6.2 CELEBES IS		SBA 77
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	IP	ZNE 09 35 02	D			
NOV 25	SBA ES	NE 19 54 50				
		ZNE 58 20				
	ELR	ZNE 59 32				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 26	10 21 07.2	24.9N 122.0E	33KM	5.4 TAIWAN		SBA 106
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	PS	NE 10 49 05				
	SS	ZNE 54 30				
	LQ	ZNE 11 04 20				
	LR	ZNE 07 25				
NOV 28	SBA IP	ZNE 00 38 42.5 D				
	EL	NE 42 14				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 28	16 41 33.4	7.7S 71.2W	626KM	5.4 W BRAZIL		SBA 89
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 16 53 22				
	EPP	ZNE 55 37				
	ESKS	E 17 02 52				
	ES	E 03 16				
	ESP	E 04 32				
	ESS	N 09 38				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 28	16 49 30.3	8.0S 71.4W	655KM	5.6 W BRAZIL		SBA 89
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 17 01 19				
	EPP	ZNE 03 33				
	ESKS	E 10 48				
	ES	ZNE 11 14				
	ESP	E 12 30				
	ESS	N 17 35				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 29	06 20 10	19.4S 169.2E	324KM	4.9 NEW HEBRIDES IS		SBA 59
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	P	Z 06 29 36				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 29	16 54 25.8	55.5S 26.0W	33KM	5.6 S SANDWICH IS		SBA 47
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 17 02 56				
	E(S)	N 09 46				
	ELR	E 13 20				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
NOV 30	12 27 38.6	6.8N 94.8E	33KM	5.7 NICOBAR IS		SBA 93
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
SBA	EP	ZNE 12 40 55				
	EPP	Z 44 29				
	ES	ZNE 51 42				
	ELR	NE 05 08				

		ELQ	ZNE 13 10 21							55 19		
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 01	04 53 23.9		18.9S 175.8W	232KM	5.5	TONGA IS					SBA 60	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P		ZNE 05 03 06		-1.17							5.6
	ES		ZNE 11 04									
	E(SS)		E 14 21									
	ELQ		ZNE 18 05									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 01	11 47 02.4		30.9S 177.9W	33KM	4.9	KERMADEC IS					SBA 48	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP		Z 11 55 43									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 03	03 50 10.2		15.0S 66.8E	46KM	6.1	MID-INDIAN RISE					SBA 78	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P		ZNE 04 01 55		-0.55							6.5
	E		Z 04 20									
	ES		NE 11 50									
	ELQ		N 22 32									
	ELR		ZN 26 06									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 04	15 48 43.4		6.4S 150.7E	19KM	5.2	NEW BRITAIN					SBA 72	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P		ZN 16 00 09									
	S		ZNE 09 34									
	ESS		Z 14 14									
	ESSS		Z 17 38									
	ELQ		NE 18 01									
	ELR		ZN 22 58									
DEC 06	SBA EP		ZNE 02 41 30									
	ES		E 46 10									
	ELQ		N 47 16									
	ELR		Z 48 20									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 06	04 27 16		2.3S 138.3E	33KM	5.0	W NEW GUINEA					SBA 77	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P		Z 04 39 17									
	ELR		Z 05 03 26									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 06	08 12 49.3		23.8S 176.1W	209KM		S OF FIJI IS					SBA 55	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA ES		E 08 29 51									
	EPS		N 30 13									
	ELR		Z 38 02									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 07	08 58 43.8		5.4S 151.3E	54KM	5.8	NEW BRITAIN					SBA 73	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA IP		ZN 09 10 09.3									
	EPP		Z 12 54									
	S		ZNE 19 57									
	ESS		ZN 24 00									
	ESSS		E 28 10									
	ELQ		E 29 34									
	ELR		Z 33 21									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 09	13 35 42.4		27.5S 63.2W	586KM	5.9	ARGENTINA					SBA 71	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA IP		ZNE 13 46 04.4	D								

	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 10	15 11 05.5		40.4N 138.9E	33KM	6.0	E SEA OF JAPAN					SBA 119	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA ES		ZNE 15 27 22									
	ESS		ZNE 31 00									
	ELQ		NE 33 08									
	ELR		Z 35 40									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 13	00 13 40		34.0S 179.1W	112KM	5.3	S OF KERMADEC IS					SBA 44	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP		Z 00 21 56									
	ES		E 28 32									
	ELQ		NE 31 47									
	ELR		Z 33 40									
DEC 13	SBA E(S)		NE 22 18 27									
	EL		ZNE 22 02									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 14	01 59 05.6		54.3S 2.4W	33KM		S ATLANTIC RIDGE					SBA 48	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP		ZNE 02 07 43									
	PP		ZN 09 38									
	S		NE 14 42									
	(SS)		E 18 25									
	LQ		E 20 59									
	LR		Z 21 54							89 20		
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 15	05 06 22.8		2.3N 126.6E	45KM		MOLUCCA PASSAGE					SBA 83	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP		Z 05 18 46									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 15	12 13 25.8		14.7N 91.7W	118KM	5.4	GUATEMALA					SBA 107	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EPP		Z 12 31 54									
	ESKS		E 38 07									
	ESP		ZE 41 11									
	EL		ZE 13 03 08									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 16	03 55 17.4		6.0N 125.3E	121KM	5.6	PHILIPPINE IS					SBA 87	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP		Z 04 07 51									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 16	19 20 26.3		21.8S 175.3W	33KM	5.4	TONGA IS					SBA 57	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P		Z 19 30 10									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 19	06 41 27.3		32.8S 177.6W	203KM	4.4	S OF KERMADEC IS					SBA 46	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P		Z 06 49 45									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 19	08 30 23		55.9S 28.0W	33KM		S SANDWICH IS					SBA 46	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA P		Z 08 38 45									
	H M S		EPICENTRE	DEPTH	MAG						DIST (DEG)	
DEC 24	18 45 45.5		4.4S 153.1E	93KM	6.1	NEW IRELAND					SBA 74	
			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA IP		Z 18 57 12.5	U	-0.88							6.0

		S	ZN	19	06	41							
		ELR	N		16	26							
		ELQ	Z		20	28							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
DEC 27	17	43	21.4	12.9N	125.4E		33KM	5.9	PHILIPPINE IS				SBA 94
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA	P		Z	17	56 37							
		EL		Z	18	23 54							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
DEC 28	16	16	11.0	22.1S	179.6W		611KM	6.2	S OF FIJI IS				SBA 56
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA	IP		ZNE	16	24 56.7	DSW						
		PCP		Z		26 49							
		S		NE		32 11							
		SCS		NE		33 48							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
DEC 30	13	19	47.4	62.6S	165.8E		33KM	5.2	BALLENY IS				SBA 15
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA	P		ZNE	13	23 21							
		L		ZNE		27 00							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
DEC 30	21	30	58.8	23.3S	179.9W		547KM	5.2	S OF FIJI IS				SBA 55
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA	IP		Z	21	39 41.3	UNE						
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
DEC 31	23	13	30.9	4.6S	153.0E		77KM	5.1	NEW IRELAND				SBA 74
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	SBA	EP		Z	23	25 02							

PUBLICATIONS BY STAFF MEMBERS

During 1964 the following papers by members of the Seismological Observatory Staff were published:

64-123 EIBY, G.A.: "The New Zealand Sub-Crustal Rift".

N.Z. J. Geol. Geophys. 7: 109-33.

The region of deep-focus earthquake activity beneath New Zealand is described with the aid of epicentre maps and vertical cross sections. This region has been called the New Zealand Sub-Crustal Rift. Arguments based principally upon gravity observations suggest that the mean density of the material within the Rift is about 1 per cent less than that of adjacent parts of the mantle. The similarity of the pattern of New Zealand seismicity to that found in other parts of the world is briefly discussed.

64-124 EIBY, G.A.: "Earthquakes in Northland".

N.Z. Engng. 19 (4): 125-9.

The Mangonui earthquake of 1963 Nov 16 and Peria earthquake of 1963 Dec 22 were both responsible for minor damage in a region previously considered aseismic. Photographs and descriptions of damage are given, together with isoseismal maps. The zoning implications of the shocks are discussed.

64-125 ADAMS, R.D.: "Thickness of the Earth's Crust beneath the Pacific-Antarctic Ridge".

N.Z. J. Geol. Geophys. 7: 529-42.

The dispersion of earthquake waves propagated along the Pacific-Antarctic Ridge indicates that the crust is 6-7 km thick beneath the Ridge and slightly thinner beneath the adjacent deep water. Strong Love waves are recorded at Hallett Station from earthquakes on the Pacific-Antarctic Ridge, whereas strong Rayleigh waves are recorded from those on the East Pacific Rise; this difference is attributed to the source rather than to the medium. The structure of the Pacific-Antarctic Ridge appears to be intermediate between those found by other workers for the East Pacific Rise and the Mid-Atlantic Ridge.

64-126 RANDALL, M.J.: "On the Mechanism of Earthquakes".

Bull. Seis. Soc. Amer. 54: 1283-9.

An earthquake may be regarded as resulting from a sudden change in the condition of elastic equilibrium in the Earth. A new form of the general solution of the elastic wave equation relates seismic radiation to displacement from equilibrium. Calculation of the radiation pattern for a proposed mechanism is thus reduced to an elastostatic problem.

64-127 RANDALL, M.J.: "Seismic Energy Generated by a Sudden Volume Change".

Bull. Seis. Soc. Amer. 54: 1291-8.

The recent suggestion that sudden phase transitions may provide a me-

chanism for earthquakes is examined mathematically for the simple case of sudden change of volume. Such a transition, even for a small density change, offers a much more concentrated source of seismic energy than does sudden faulting.

S-128 ADAMS, R.D.; RANDALL, M.J.: "The Fine Structure of the Earth's Core". Bull. Seis. Soc. Amer. 54: 1299-1313.

Detailed study of arrivals from accurately fixed earthquakes has revealed additional complexity in the travel-time curve for PKP. A notation is introduced in which observations are denoted by P' with a two-letter suffix indicating the branch to which they belong, namely P'_{AB}, P'_{IJ}, P'_{GH} and P'_{DF}. A new velocity solution for the Earth's core has been derived from these observations. This velocity solution differs from those previously suggested in having three discontinuous increases in velocity between the outer and inner core, at levels corresponding to 0.570, 0.455 and 0.362 times the radius of the core. This implies two shells, each between 300 and 400 km thick, surrounding the inner core; in each shell there is a small negative velocity gradient. The outer discontinuity is sufficiently shallow to prevent rays in the outer core from forming a caustic.

S-129 VERE-JONES, D.; TURNOVSKY, S.; and EIBY, G.A.: "A Statistical Study of Earthquakes in the Main Seismic Region of New Zealand. Part 1 - Time Trends in the Pattern of Recorded Activity".

N.Z. J. Geol. Geophys. 7: 722-44.

Earthquake data from the main seismic region of New Zealand have been examined for trends in the total recorded activity and in its distribution over the region. During the years 1942 - 61 there has been a continuing increase in the numbers of deep-focus shocks with depths of over 100 km. A more than four-fold increase remains after corrections have been made for changes in the recording network. At the same time there has been a decrease in shallow activity (depths of 100 km or less), chiefly in the number of shocks belonging to swarms or aftershock sequences. Despite these changes, the total rate of earthquake occurrence has remained approximately constant. The latitude of the observed mean epicentre has shown a northerly drift of 8.6 km per year over the period. The three major factors contributing to this drift are the changes in the recording network, the increase in (low-latitude) deep activity, and a smaller drift within the shallow component alone. There is evidence that groups of related deep-focus shocks occur, and that for both deep and shallow shocks, grouping is a more pervasive phenomenon than is commonly supposed.

S-130 EIBY, G.A.: "The Northland Earthquakes of 1963 November - December and the Seismicity of Northland".

N.Z. J. Geol. Geophys. 7: 745-65.

The earthquakes at Mangonui on 1963 November 16 and at Peria on 1963 December 22 are the first earthquakes in Northland for which it has been possible to determine instrumental epicentres. Details of epicentre, magnitude, and focal depth calculations are given, together with a description of the felt effects, photographs of damage, and isoseismal maps. Earthquakes felt in Northland since 1955 January 1 are listed. The earlier conclusion that this part of New Zealand is aseismic is no longer justified.

E-141 "New Zealand Seismological Report 1960".

EXCHANGE AGREEMENTS

The Seismological Observatory issues the following series of publications: -

1. E-bulletins. This consists 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 Earthquakes in 1964 having focal depths less than 40 km.
2. Epicentres of Earthquakes in 1964 having focal depths 40 km or greater.
3. Isoseismals for the Earthquake of 1964 March 8d.

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

With the Compliments of the
Superintendent,
Seismological Observatory,
Geophysics Division

P.O. Box 8005,
Wellington,
New Zealand

A. R. Shearer, Government Printer, Wellington, New Zealand.

MAP 1