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POSTAL SERVICE

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Correspondents are asked to note that surface mails from Europe and the Americas are infrequent, and that articles not sent by airmail may take four or five months to reach us.

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INTRODUCTION

The form of this Report follows lines established in recent years. The main list of regional shocks contains only earthquakes of magnitude 3.5 or greater located within 10^{o} of Wellington, and smaller earthquakes known to have been felt in New Zealand. Many other earthquakes have however been assigned serial numbers, so the serials of the shocks listed are often not consecutive.

Phase data are not published here, but are instead sent to the International Seismological Centre, and appear in their bulletins, which constitute the only medium now in use for routine reporting of arrival time observations made in New Zealand. The lists of origin coordinates and magnitudes include sufficient supplementary information for assessment of the quality of the data on which they are based.

There is also a list of origins of earthquakes in the Wellington area with magnitudes of 2.0 or more. This list gives less information on the quality of individual determinations, but the density of recording stations in the area, and their easy accessibility for maintenance ensure that errors are small.

Seismologists urgently requiring unpublished New Zealand data may apply to the Observatory. Historic data are also available but unless a two-way information exchange is involved it is the Observatory's practice to make a charge for recovery of this material. Definitive origins for local earthquakes are usually available within a few months of their occurrence.

Until June 1992, the Seismological Observatory was part of the Department of Scientific and Industrial Research (DSIR). On 1 July 1992 the DSIR ceased to exist and the Seismological Observatory is now part of the Institute of Geological & Nuclear Sciences Limited. Observatory procedures have remained unchanged.

D E Maunder
editor

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NEW ZEALAND SEISMICITY IN 1992

The pattern of earthquakes in New Zealand during 1992 was a little unusual, in that the latter half of the year was very quiet. There were 12 events of M_L 5.0 and greater, at depths of 40 km or less, but only three of these were in the July-December period, the largest only 5.3. In contrast, the nine shallow shocks in the first half of the year included one of M_L 6.1 and five others of M_L 5.5 or greater. The deeper shocks were more spread throughout the year: five in the first half and eight in the second half.

The largest earthquake of the year occurred on May 27 (Event 92/5856), and was centred 30 km south-west of Blenheim. Its local magnitude was 6.7, although a comparison with teleseismic observations of this event demonstrates a difficulty which has become apparent with magnitudes of deep earthquakes, in that the body wave magnitude M_s assigned by the U.S. National Earthquake Information Center was only 5.8. The discrepancy is apparently due to the inadequate procedures currently being used at the Observatory for modelling the propagation of energy from deep earthquakes. The question is under study. The effects were not severe, because the focal depth was 84 km. The earthquake was felt from Huntly in the north to Dunedin in the south, most strongly in Nelson and Blenheim where many shops had goods thrown from shelves and there were some instances of minor damage. Intensity MM VI has been assigned in those two localities.

Tall buildings in Wellington swayed for at least a minute. A more surprising report came from the Awatere Valley, indicating that the earthquake was "barely felt" there. It seems that this particular location was close to a node of the radiation pattern from the focus, so ground motion was very modest compared with that in Blenheim, not far away.

On March 2 there was an earthquake of M_L 5.8 in southern Hawke's Bay (Event 92/1727), between Weber and Porangahau, then another on July 31 (92/8330) of M_L 5.2 and centred between Weber and Pahiatua. Intensities reached MM V on March 2 and MM IV on July 31. These shocks appear to have been part of the continuing Weber sequence, which began with two in 1990 February and May, causing damage in Dannevirke and the nearby area. The sequence has continued since then, but mostly at a low level with only the occasional shock being felt. This sequence is somewhat unusual in its length, especially as the 1992 events were two years after the main shock. The Observatory is continuing surveillance of the area with its permanent network of seismographs. The catalogue for the month of March contains 363 aftershocks within 30 km of the March 2 epicentre.

Three earthquakes in the Bay of Plenty were felt strongly on shore, especially in Whakatane, Tauranga and Waihi: event 92/2754 (M_L 5.7) on March 25, 92/6640 (M_L 6.1) and 92/6644 (5.6) on June 21. Intensities reached MM VI at Waihi on March 25 and at Tauranga on June 21.

A sequence of earthquakes began on March 30, just to the west of Arthur's Pass. The largest two were 92/3075 (M_L 5.8) on March 30 and 92/3506 (M_L 5.2) on April 1. Intensities reached MM V at Lake Kaniere and Erewhon Station on March 30. The catalogue contained 574 events in the succeeding four days, with magnitudes down to 2.0. This contrasts sharply with the 27 May event in Marlborough (focal depth 84 km) for which only eight aftershocks were recorded.

On May 16 and 17 there were three earthquakes off Tokomaru Bay, to the north of Gisborne: events 92/5272 (M_L 5.6), 92/5277 (M_L 5.2) and 92/5315 (M_L 5.2). Intensities reached MM V on shore.

Other shallow earthquakes of magnitude 5.0 and greater occurred 150 km off Castlepoint on March 22 (event 92/2617, M_L 5.1) and near Harihari on the West Coast on November 27 (92/11670, M_L 5.3).

Apart from the May 27 event, deep earthquakes exceeding magnitude 5.0 occurred near Te Kuiti at a depth of 233 km on January 15 (event 92/383, M_L 5.3); 222 km deep beneath north-eastern Taranaki on Feb 5 (92/947, M_L 5.1); 30 km south-west of Hawera at 122 km on February 18 (92/1380, M_L 5.9); 57 km beneath southern Hawke's Bay on March 13 (92/2349, M_L 5.0); 296 km deep below Tauranga on August 9 (92/8539, M_L 5.3); 100 km north of Nelson and 237 km deep on August 10 (92/8550, M_L 5.1); 189 km deep in the Rotorua area on September 16 (92/9536, M_L 5.0); 168 km below Rotorua on September 29 (92/9912, M_L 5.3); 190 km beneath central Taranaki on October 20 (92/10453, M_L 5.0); 100 km north of East Cape and 181 km deep on November 4 (92/10863, M_L 5.1); just west of National Park on December 12 at a depth of 161 km (92/12124, M_L 5.7), and 277 km deep beneath Tauranga on December 27 (92/12558, M_L 6.0). None of these caused intensities exceeding MM IV, because of their focal depths.

W D Smith

INSTRUMENTATION IN 1992

By the end of 1992, the New Zealand digital network consisted of 31 digital stations (11 with single component instruments and the rest 3-component), 7 analogue stations and 5 regional networks: Bay of Plenty, Tongariro, Hawkes Bay, Wellington and Clyde. The Taupo network was closed by the end of October.

The change from visual records, needing to be changed daily, to digital tapes which run for a week has meant that it has been possible to install instruments at seismically quieter sites. Those analogue stations left are used to add data to a few poorly determined epicentres and as displays in museums or other public areas. Continuous recording by WWSSN and IRIS seismographs for the registration of teleseisms and the use of pen-recorders at some sites for immediate inspection of large events continued.

Two types of event-recording system have been developed by the Observatory. The older system, SNARE (Seismic Network Automatic Recording Equipment) is a 16-channel system which relies on a combination of spectral analysis of seismometer outputs and coincidence detection to trigger recording by the whole network. EARSS (Automatic Equipment for the Recording of Seismograph Signals) was developed from SNARE as a single station system which can operate unattended for at least a week. Because it is a single station system it relies solely on a frequency-spectrum algorithm for event detection. An improvement on SNARE is the introduction of automatic magnification adjustment ("gain-ranging") to allow faithful recording of large-amplitude wave-forms. A 16-channel version of EARSS is under development and will eventually supersede SNARE. Not included in the current re-equipment programme are instruments owned by organisations other than IGNS. In 1992, organisations cooperating in continuous or ad hoc seismic monitoring were: the Universities of Auckland and Wellington, and the Electricity Corporation of New Zealand.

CHANGES TO THE NETWORKS IN 1992

A new station of the New Zealand network, Mangatainoka River (MRZ), with EARSS recorder was installed during April. This instrument was originally a short period vertical Mark Products L4-C which was replaced by a 3-component Mark Products L4-3D seismometer a month later.

The station at Raurimu (RUZ) was closed in May and replaced by a 3 component station at Oio (OIZ) during September.

The Wellington (WEL) NS and EW Wood Anderson instruments were removed in March.

The single component seismometer at Lake Moeraki (LMZ) was replaced, in October, by a 3-component Mark Products L4-3D instrument. The station was moved slightly in November and placed down a 50m borehole. The station at Milford Sound (MSZ) was also moved slightly during this month.

Wainui Dam (WDW), a station in the Wellington network, was replaced by Orongorongo Valley (OTW) in July.

Three new stations were installed in the Rotorua area; Haroharo (HARZ), Lichensteins Road (LIRZ) and Manawahe (MARZ). Their signals are telemetered to Rotorua and recorded on an EARSS recorder. These stations have short-period vertical Mark Products L4-C instruments.

In June 1992, in preparation for the installation of network covering the Taranaki volcanic area, North Egmont (NEZ) was moved slightly and stopped recording. It will form part of the Taranaki network and the signal will be telemetered to a 16 channel EARSS recorder in New Plymouth. This network will be operated and the data analysed by the Taranaki Civil Defence and Auckland University.

The visual station at Rotoiti (RTY) was inoperative for most of the year. The recorder drum motor was replaced in mid December and recording recommenced.

The DWWSSN station at Raratonga (RAR) was replaced by an IRIS system in February. In April the SRO at South Karori (SNZO) was also replaced by an IRIS.

INDEX OF STATION CODES AND POSITIONS

The growth in numbers of seismograph stations in recent years has been so great that it is not always possible to find short mnemonic codes that are unique in the world.

Nearly all the codes used below are recognised and used by the United States NEIS and by ISC, but some of those for stations in the telemetered networks may not be.

CODE	NAME	LATITUDE d	m	s		LONGITUDE d	m	s		ALT m
SEISMIC RESEARCH OBSERVATORY										
SNZO	South Karori	41	18	37	S	174	42	17	E	-10
STANDARD NETWORK										
AUC	Auckland	36	51	36	S	174	46	41	E	79
BCZ	Braida Crags	46	00	24	S	167	50	23	E	120
BSZ	Bushy Park	39	47	55	S	174	55	52	E	150
BWZ	Berwen	44	31	54	S	169	52	59	E	500
CHR	Christchurch	43	31	58	S	172	37	36	E	8
CIZ	Chatham Islands	43	57	18	S	176	33	56	W	45
CNZ	Chateau	39	12	00	S	175	32	51	E	1116
DCZ	Deep Cove	45	28	42	S	167	09	15	E	20
DRZ	Dome Shelter	39	16	35	S	175	33	49	E	2600
DSZ	Denniston North	41	44	49	S	171	48	09	E	630
EWZ	Erewhon	43	30	42	S	170	51	09	E	650
HBZ	Hicks Bay	37	35	57	S	178	18	05	E	0
KHZ	Kahutara	42	25	05	S	173	32	25	E	70
KUZ	Kuaotunu	36	44	50	S	175	43	12	E	40
LMZ	Lake Moeraki	43	43	06	S	169	16	14	E	10
	(from November)	43	42	59.5	S	169	16	10	E	-50
LTZ	Lake Taylor	42	46	58	S	172	16	08	E	640
MGZ	Maungaku	39	00	07	S	175	32	20	E	806
MNG	Mangahao	40	37	07	S	175	28	55	E	396
MOZ	Mahoenui	38	30	21	S	174	48	11	E	160
MQZ	McQueen's Valley	43	42	28	S	172	39	08	E	60
MRZ	Mangatainoka River	40	39	45	S	175	34	45	E	320
MSZ	Milford Sound	44	40	14	S	167	55	01	E	38
	(from November)	44	40	31.5	S	167	55	39	E	90
NEZ	North Egmont	39	16	22	S	174	05	46	E	920
NGZ	Ngauruhoe	39	10	37	S	175	36	04	E	806
NOZ	North Gisborne	38	37	05	S	178	02	12	E	60
NRZ	Ngariki	39	20	15	S	173	55	59	E	250
OBZ	Oban	46	54	18	S	168	06	55	E	26
ODZ	Otahua Downs	45	02	43	S	170	38	40	E	270
OIZ	Oio	39	02	48	S	175	23	33	E	470

OUZ	Omahuta	35	13	17	S	173	35	46	E	40
PGZ	Pongaroa	40	37	08	S	176	16	25	E	-40
PUZ	Puketiti	38	04	24	S	178	15	26	E	420
QRZ	Quartz Range	40	49	39	S	172	31	44	E	260
RAO	Raoul Island	29	15	06	S	177	55	06	W	110
RAR	Rarotonga	21	12	45	S	159	46	24	W	28
RTY	Rotoiti	41	48	27	S	172	50	35	E	635
RUZ	Raurimu	39	07	37	S	175	20	16	E	450
SBA	Scott Base	77	51	01	S	166	45	22	E	38
SIZ	Stewart Island	46	52	30	S	168	07	59	E	60
TAZ	Tarawera	38	13	59	S	176	30	28	E	1037
THZ	Top House	41	45	50	S	172	54	13	E	760
TMP	Tomahawk Gully	44	18	54	S	170	07	12	E	720
TUZ	Tuapeka	45	57	22	S	169	37	56	E	110
URZ	Urewera	38	15	37	S	177	06	37	E	100
UTU	Utuhina	38	10	39	S	176	11	32	E	410
WCZ	Waipu Caves	35	56	28	S	174	20	40	E	140
WEL	Wellington	41	17	10	S	174	46	06	E	122
WIZ	White Island	37	31	42	S	177	11	21	E	40
WLZ	Whitehall	37	52	12	S	175	35	46	E	190
WVZ	Waitaha Valley	43	04	35	S	170	44	10	E	75

BAY OF PLENTY VOLCANO-SEISMIC NETWORK

HARZ	Haroharo	38	05	28	S	176	30	07	E	740
LIRZ	Lichensteins Road	38	00	18	S	176	23	03	E	340
MARZ	Manawahe	37	59	12	S	176	40	28	E	480
PATZ	Paeroa	38	22	53	S	176	15	30	E	940
TAZ	Tarawera	38	13	59	S	176	30	28	E	1037
UTU	Utuhina	38	10	39	S	176	11	32	E	410
WIZ	White Island	37	31	42	S	177	11	21	E	40

CLYDE NETWORK (Electricorp)

CFC	Cairnmuir Flats	45	11	03	S	169	17	32	E	576
CMCZ	Cairnmuir Mts	45	08	57	S	169	16	30	E	1039
LRCZ	Leaning Rock	45	03	55	S	169	20	46	E	1533
LSCZ	Lilico Spur	45	06	59	S	169	22	09	E	759
MHZ	Mt Horn	45	03	44	S	169	16	46	E	1127
MMCZ	Mount Michael	45	00	13	S	169	07	53	E	1163
MSCZ	Moutere Station	45	05	35	S	169	24	42	E	701
SBCZ	Sonora Basin	45	05	32	S	169	18	40	E	801
TBC	Trig B	45	08	47	S	169	19	49	E	619
TLC	Trig L	45	11	29	S	169	04	17	E	1393

HAWKES BAY NETWORK

HNH	Havelock North	39	39	55	S	176	52	52	E	10
MAHZ	Mahia	39	11	18	S	177	52	51	E	336
MOH	Mohaka	39	07	57	S	177	08	52	E	245
PAHZ	Panekirikiri	38	51	33	S	177	03	15	E	563
TAHZ	Taraponui	39	08	09	S	176	44	25	E	1297
TEHZ	Te Atua	39	59	22	S	176	48	40	E	407
TTH	Taradale Trig	39	32	29	S	176	49	34	E	120
WAHZ	Wakarara	39	41	57	S	176	21	19	E	657
WHH	Whakatau	38	53	04	S	176	29	42	E	921

TAUPO NETWORK

OH1	Ohaaki 1	38	32	41	S	176	18	27	E	295
OH2	Ohaaki 2	38	30	42	S	176	18	10	E	300
OH3	Ohaaki 3	38	31	59	S	176	19	34	E	300
OH4	Ohaaki 4	38	32	41	S	176	19	09	E	300

TONGARIRO VOLCANO-SEISMIC NETWORK

CNZ	Chateau	39	12	00	S	175	32	51	E	1116
DRZ	Dome Shelter	39	16	35	S	175	33	49	E	2600
KETZ	Ketetahi	39	06	02	S	175	39	06	E	1208
MGZ	Maungaku	39	00	07	S	175	32	20	E	806
NGZ	Ngaruhoe	39	10	37	S	175	36	04	E	806

WELLINGTON NETWORK

AMW	Mt Adams	41	18	34	S	175	45	39	E	400
BBW	Blackbirch	41	42	45	S	173	52	42	E	250
BHW	Baring Head	41	24	33	S	174	52	17	E	10
BLW	Big Hill	41	22	07	S	175	28	29	E	340
CAW	Cannon Point	41	06	32	S	175	04	04	E	330
CCW	Cape Campbell	41	45	03	S	174	13	01	E	216
DIW	D'Urville Island	40	48	08	S	173	55	19	E	460
GFW	Glenfield	41	27	24	S	173	49	51	E	230
KIW	Kapiti Island	40	51	50	S	174	54	42	E	320
MOW	Moikau	41	25	18	S	175	15	07	E	430
MRW	Makara Radio	41	13	57	S	174	42	18	E	235
MTW	Mount Morrison	41	09	34	S	175	30	07	E	282
OTW	Orongorongo Valley	41	16	39	S	175	00	15	E	230
TCW	Tory Channel	41	12	48	S	174	16	33	E	150
WDW	Wainui Dam	41	16	07	S	174	59	37	E	130
WEL	Wellington	41	17	10	S	174	46	06	E	122

INSTRUMENTATION AND LITHOLOGY

STANDARD NETWORK AND CONTRIBUTING STATIONS

Stations are listed in alphabetical order of their abbreviations. Pendulum period, To, is given in seconds. Damping when not listed, may be assumed to be critical. Magnifications listed are for the period of maximum response, except for World-Wide Standard Station instruments, where the magnifications are given at the conventional periods of 1.0 and 15 seconds. Response curve for Mark Products L4-C seismographs and an EARSS system is shown at the end of this section.

	Instrument	Compt.	To	Damping	Magnification
AUC	AUCKLAND				
	Foundation: Volcanic beds on Tertiary sandstone and mudstone.				
	Willmore II (with Kinemetrics VR-1 pen-recorder).				
		Z	1.0		3 800 at 0.25s
BCZ	BRAIDA CRAGS				
	Foundation: Limestone.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
BSZ	BUSHY PARK				
	Foundation: Quaternary marine sediments.				
	Mark Products L4-C (with EARSS digital gain-ranging recorder).				
		Z	1.0		
BWZ	BERWEN (from February)				
	Foundation: Greywacke.				
	Mark Products L4-C (with EARSS digital gain-ranging recorder)				
		Z	1.0		
CHR	CHRISTCHURCH				
	Willmore II (with Kinemetrics VR-1 pen-recorder).				
		Z	1.0		
CIZ	CHATHAM ISLANDS				
	Foundation: Clay over basalt.				
	Willmore II (with Kinemetrics VR-1 pen-recorder).				
		Z	1.0		4 440 at 0.20s
CNZ	CHATEAU				
	Foundation: Volcanic ash and Lava.				
	Mark Products L4-C (telemetered to Kinemetrics VR-1 pen-recorder and to EARSS digital recorder).				
		Z	1.0		Variable
DCZ	DEEP COVE (from May)				
	Foundation: Granite.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder)				
		ZNE	1.0		

	Instrument	Compt.	To	Damping	Magnification
DRZ	DOME SHELTER (Department of Conservation) Foundation: Recent andesitic ash. Mark Products L4-C (High and low magnifications, telemetered to Kinemetrics VR-1 pen-recorders and high magnification to EARSS digital recorder).	Z	1.0		Variable
DSZ	DENNISTON NORTH Foundation: Upper Precambrian greywacke Mark Products L4-C (with EARSS digital gain-ranging recorder)	Z	1.0		
EWZ	EREWHON Foundation: Triassic greywacke. Mark Products L4-C (with EARSS digital gain-ranging recorder)	Z	1.0		
HBZ	HICKS BAY Foundation: Consolidated conglomerate. Mark Products L4-C in borehole (with Kinemetrics VR-1 pen-recorder and EARSS digital recorder).	Z	1.0		67 500 at 0.10s
KHZ	KAHUTARA Foundation: Jurassic greywacke Mark Products L4-3D (with EARSS digital gain-ranging recorder)	ZNE	1.0		
KUZ	KUAOTUNU Foundation: Greywacke. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
LMZ	LAKE MOERAKI Foundation: Precambrian Greywacke. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
	Replaced in November by Mark Products L4-C (with EARSS digital gain-ranging recorder).	Z	1.0		
LTZ	LAKE TAYLOR Foundation: Triassic Greywacke. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
MGZ	MAUNGAKU (Department of Conservation) Foundation: Quaternary andesite. Mark Products L4-C (telemetered to Kinemetrics VR-1 pen-recorder and to EARSS digital recorder).	Z	1.0		Variable
MNG	MANGAHAO Foundation: Greywacke Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		

	Instrument	Compt.	To	Damping	Magnification
MOZ	MAHOENUI				
	Foundation: Jurassic Greywacke.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
MQZ	McQUEEN'S VALLEY				
	Foundation: Miocene Volcanics.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
MRZ	MANGATAINOKA (from May)				
	Foundation: Greywacke.				
	Mark Products L4-C, replaced in June by				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
MSZ	MILFORD SOUND				
	Foundation: Gneiss.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder)				
		ZNE	1.0		
NEZ	NORTH EGMONT (until June)				
	Foundation: Volcanic ash.				
	Mark Products L4-C (with Kinemetrics VR-1 pen-recorder).				
		Z	1.0		25 100 at 0.10s
NGZ	NGAURUHOE				
	Foundation: Recent volcanic flows.				
	Mark Products L4-C (telemetered to Kinemetrics VR-1 pen-recorder and to EARSS digital recorder).				
		Z	1.0		Variable
NOZ	NORTH GISBORNE				
	Foundation: Upper Miocene Siltstone.				
	Mark Products L4-C (with EARSS digital gain-ranging recorder).				
		Z	1.0		
NRZ	NGARIKI				
	Foundation: Andesite.				
	Mark Products L4-C (with EARSS digital gain-ranging recorder).				
		Z	1.0		
OBZ	OBAN				
	Foundation: Weathered granite.				
	Mark Products L4-C (with Kinemetrics VR-1 pen-recorder).				
		Z	1.0		12 000 at 1.0s
ODZ	OTAHUA DOWNS				
	Foundation: Greywacke.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		

	Instrument	Compt.	To	Damping	Magnification
OIZ	OIO (from Sept) Foundation: Tertiary Sandstone. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
OUZ	OMAHUTA Foundation: Greywacke.Mark Products L4-C (with EARSS digital gain-ranging recorder)	Z	1.0		
PGZ	PONGAROA Foundation: Tertiary Sediments Mark Products L4-C in borehole (with EARSS digital gain-ranging recorder).	Z	1.0		
PUZ	PUKETITI Foundation: Cretaceous Greywacke. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
QRZ	QUARTZ RANGE Foundation: Golden Bay Schist. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
RAO	RAOUL ISLAND Foundation: Volcanic rock. Willmore II (with Kinemetrics VR-1 pen-recorder).	Z	1.0		4 800 at 0.25s
RAR	RAROTONGA (World-Wide Standard Station) Foundation: Basalt. Benioff	ZNE	1.0		6 250 at 1.0s
	Signal also recorded by EARSS digital event recorder tuned to trigger on T-waves. Press-Ewing	Z	15		375 at 15s
	GeoTech KS36000i broad band seismometer recorded on IRIS-2 digital recording system.				
RTY	ROTOITI Foundation: Glacial gravels. Mark Products L4-C (with Kinemetrics VR-1 pen-recorder).	Z	1.0		Uncertain
RUZ	RAURIMU (until May) Foundation: Limestone. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
SBA	SCOTT BASE (World-Wide Standard Station) Foundation: Frozen basaltic debris resting on lava flows. Benioff	ZNE	1.0		12 500-50 000 at 1.0s according to season
	Press-Ewing	ZNE	15		750 at 15s
SIZ	STEWART ISLAND Foundation: Granite Mark Products L4-C (with EARSS digital gain-ranging recorder).	Z	1.0		

	Instrument	Compt.	To	Damping	Magnification
TAZ	TARAWERA				
	Foundation: Rhyolite lava.				
	Mark Products L4-C (telemetered to Kinemetrics VR-1 pen-recorder and to EARSS digital recorder).				
		Z	1.0		Variable
THZ	TOPHOUSE				
	Foundation: Permian Greywacke.				
	Willmore II (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
TMP	TOMAHAWK GULLY				
	Foundation: Mesozoic Greywacke				
	Mark Products L4-C (telemetered to separate Kinemetrics VR-1 pen-recorders).				
		Z	1.0		750 000 at 0.20s
		N	1.0		100 000 at 0.20s
TUZ	TUAPEKA				
	Foundation: Haast Schist.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder)				
		ZNE	1.0		
URZ	UREWERA				
	Foundation: Greywacke.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
UTU	UTUHINA				
	Foundation: Ignimbrite.				
	Mark Products L4-C (telemetered to Kinemetrics VR-1 pen-recorder and to EARSS digital recorder).				
		Z	1.0		Variable
WCZ	WAIPU CAVES				
	Foundation: Greywacke.				
	Mark Products L4-C (with EARSS digital gain-ranging recorder).				
		Z	1.0		
WEL	WELLINGTON (World-Wide Standard Station)				
	Foundation: Greywacke.				
	Benioff	Z	1.0		6 250 at 1.0s
	Press-Ewing	ZNE	15		375 at 15s
	Wood-Anderson (until March)	NE	0.80	crit.	1 400 at 0.8s
	Imamura	Z	1	5:1	2
		NE	4	5:1	2
	Kinemetrics force-balance accelerometer (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
WIZ	WHITE ISLAND				
	Foundation: Recent andesite.				
	Mark Products L4-C (Telemetered to Kinemetrics VR-1 pen-recorder).				
		Z	1.0		Variable

	Instrument	Compt.	To	Damping	Magnification
WLZ	WHITEHALL				
	Foundation: Jurassic Greywacke.				
	Willmore II	Z	1.0		
	Willmore I	NE	1.0		
	(with EARSS digital gain-ranging recorder).				
WVZ	WAITAHA VALLEY				
	Foundation: Granite.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		

BROADBAND IRIS STATION

This station is sponsored by the United States Geological Survey. A three-component GeoTech KS36000i BD broadband seismometer sealed in a gas-filled capsule is located in a borehole 165 mm in diameter and about 100 m deep, at a quiet site several kilometres from the Observatory. The ground surface there is 88 m above, and the seismometer 10 m below, sea level. The lithological foundation is Jurassic-Permian Greywacke. Both digital and analogue recordings are made from the three long-period and the vertical component short-period outputs. The digital signal is recorded by an IRIS-2 system. Paper analogue records are archived by the Observatory, but the digital tape records of detected events are held by the USGS. The recorder is at the observatory site in Kelburn, and the signals are transmitted to it by landline.

Magnifications given below are for the analogue recorder.

Code	Station	Component	Magnification
SNZO	South Karori	ZNE Z	1 500 at 15s 6 250 at 1.0s

BAY OF PLENTY VOLCANO-SEISMIC NETWORK

This network is operated by the Volcanology Programme in conjunction with the Seismological Observatory and monitors seismic activity associated with volcano, geothermal and tectonic processes in the northern portion of the Taupo Volcanic Zone. Data from 6 of the 7 stations are recorded on two 3-channel EARSS at Rotorua. Tarawera (TAZ) and Utuhina (UTU) and the seventh station, White Island (WIZ), are recorded on VR-1 pen-and-ink visual recorders as part of the New Zealand network. The seismometers are Mark Products L4-C (1 hz) short-period vertical seismometers.

Code	Station	Component	Magnification
HARZ	Haroharo	Z	Rhyolite
LIRZ	Lichensteins Rd	Z	Rotoiti breccia
MARZ	Manawahe	Z	Andesite
PATZ	Paeroa	Z	Ignimbrite
TAZ	Tarawera	Z	Ryolite lava
UTU	Utuhina	Z	Ignimbrite
WIZ	White Island	Z	Recent Andesite

CLYDE NETWORK

A network of seismometers has been installed near Clyde to collect data on the prevailing level of microseismicity in the area of the dam now being constructed on the Clutha River. The network operated by the Electricity Corporation of New Zealand, is used to monitor any changes in local seismicity associated with the use of the lake for the generation of electricity. The system records all detected seismic events in digital form, on magnetic tape. Tapes are interpreted and retained at the Observatory where they are available for other seismological use. Clyde network stations are linked by radio telemetry to a multi-channel SNARE (Seismic Network Automatic Recording Equipment), which both detects and records seismic events, at Clyde. The seismometers are Mark Products L4-C or L4-3D instruments with a natural period of one second and the lithological foundation at all stations is Schist. Recorded waveforms can be displayed on a monitor screen at any required scale.

Code	Station	Component
CFC	Cairnmuir Flats	Z
CMCZ	Cairnmuir Mountains	ZNE
LRCZ	Leaning Rock	Z
LSCZ	Lilico Spur	Z
MMCZ	Mount Michael	Z
MHZ	Mount Horn	Z
MSCZ	Moutere Station	Z
SBCZ	Sonora Basin	Z
TBC	Trig B (formerly Clyde)	Z
TLC	Trig L	Z

HAWKES BAY NETWORK

The Hawke's Bay network has been installed to monitor seismicity in an area which has not only some potential for hydro-electric power generation, but also a history of severe earthquakes. Havelock North produces high- and low-gain records from a three-component seismometer. The network records on a SNARE System in Havelock North.

Code	Station	Component(s)	Foundation
HNH	Havelock North	ZNE (High gain) ZNE (Low gain)	Greywacke gravel " "
MAHZ	Mahia	Z	Mudstone
MOH	Mohaka	Z	Dune Sand
PAHZ	Panekirikiri	Z	Pumice Tuff
TAHZ	Taraponui	Z	Limestone
TEHZ	Te Atua	Z	Limestone
TTH	Taradale Trig	Z	Calcareous mudstone
WAHZ	Wakarara	Z	Greywacke
WHH	Whakatau	Z	Ignimbrite

TAUPO NETWORK

This network is intended to monitor volcanic and geothermal activity in the Taupo Volcanic Region. Although relatively quiet in historic times, (the 1886 Tarawera eruption notwithstanding), the geological record shows that the Region has been the scene of larger-scale activity at a number of times in the more distant past. The network records on a SNARE system at Wairakei. Station codes OH1 - OH4 are not internationally recognised. All the stations of this network were closed by end of October 1992.

Code	Station	Component(s)	Foundation
OH1	Ohaaki 1	Z	Pumice
OH2	Ohaaki 2	Z	Pumice
OH3	Ohaaki 3	Z	Pumice
OH4	Ohaaki 4	Z	Pumice

TONGARIRO VOLCANO-SEISMIC NETWORK

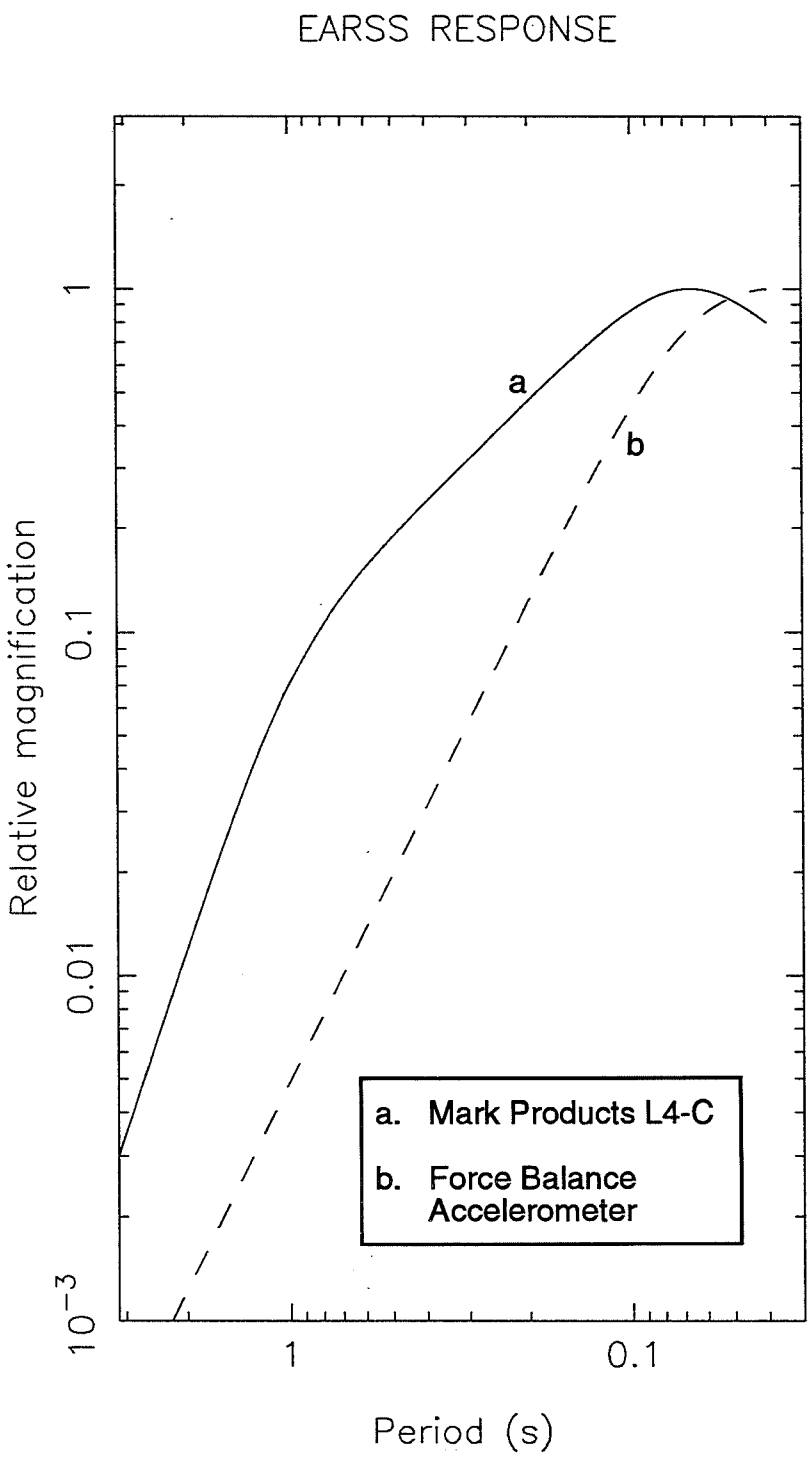
This network is operated jointly by the Volcanology programme and the Seismological Observatory to monitor seismic activity associated with volcanic and tectonic processes about Tongariro Volcanic Centre. Five stations form the network, with CNZ, DRZ and NGZ being recorded on a 3-channel EARSS, and all others on VR-1 pen-and-ink visual recorders. KETZ originally formed part of the Taupo network and little data was obtained from this station in 1992. The other four stations are also part of the New Zealand network. The instruments at all sites are Mark Products L4-C short-period vertical seismometers.

Code	Station	Component(s)	Foundation
CNZ	Chateau	Z	Andesitic ash
DRZ	Dome Shelter	Z	Andesite ash
KETZ	Ketetahi	Z	Andesite lava
MGZ	Maungaku	Z	Andesite
NGZ	Ngaruhoe	Z	Andesite lava

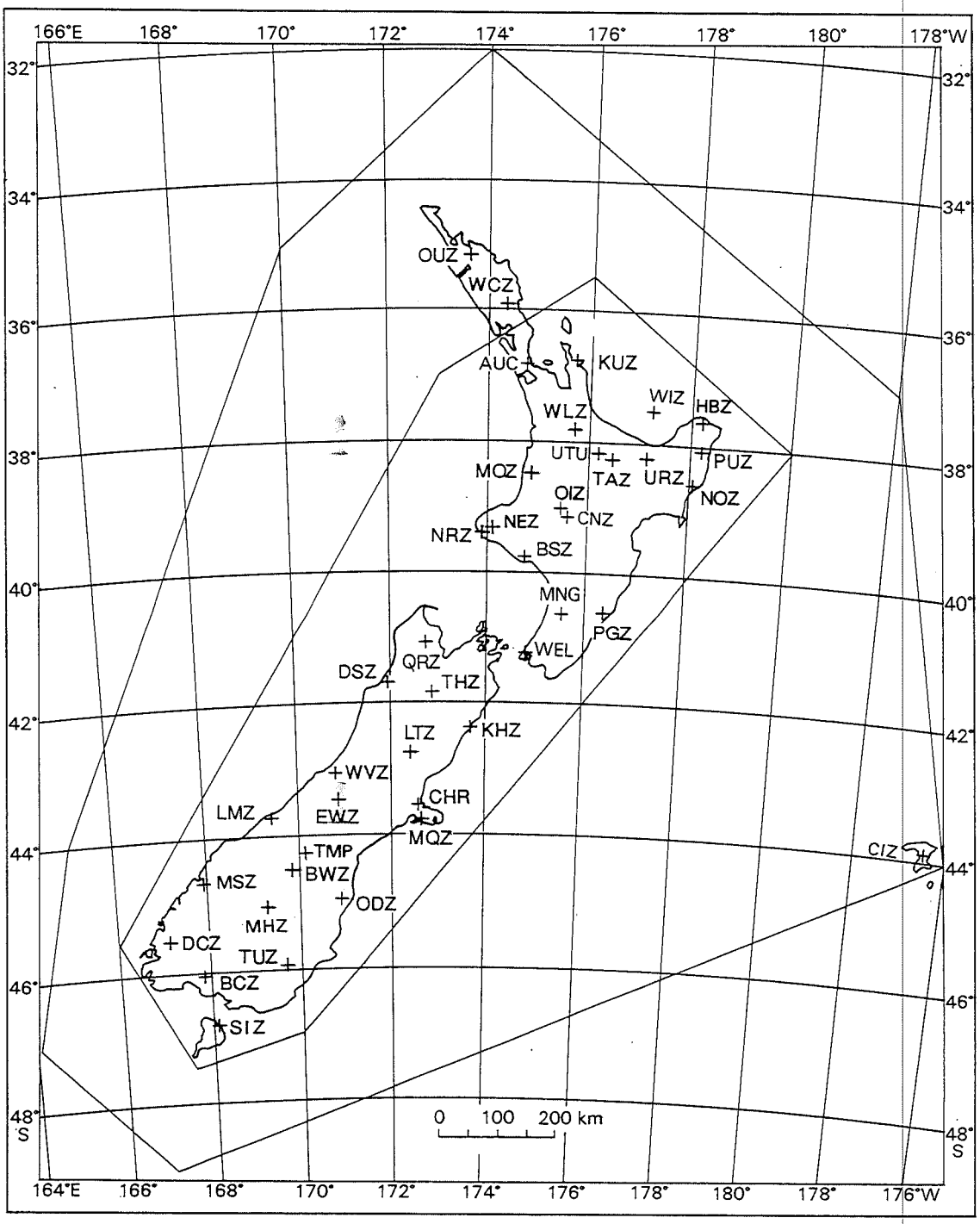
WELLINGTON NETWORK

The stations of the Wellington network are linked by radio or land-line to a common SNARE event-detecting and recording system at the Observatory at Kelburn. The instrument at WEL is a Kinemetrics force balance accelerometer and the seismometer at MRW is a Mark Products L4-3D. The seismometers for the rest of the network are Mark Products L4-C instruments with a period of 1.0 second. SNARE records are made on magnetic tape and may be displayed on a monitor screen at any required magnification. The MRW vertical component is also transmitted to a heated stylus recorder. The lithological foundation at most stations is Jurassic-Permian Greywacke. The exceptions are BBW (schist), CCW (Miocene sandstone) and DIW (Granodiorite).

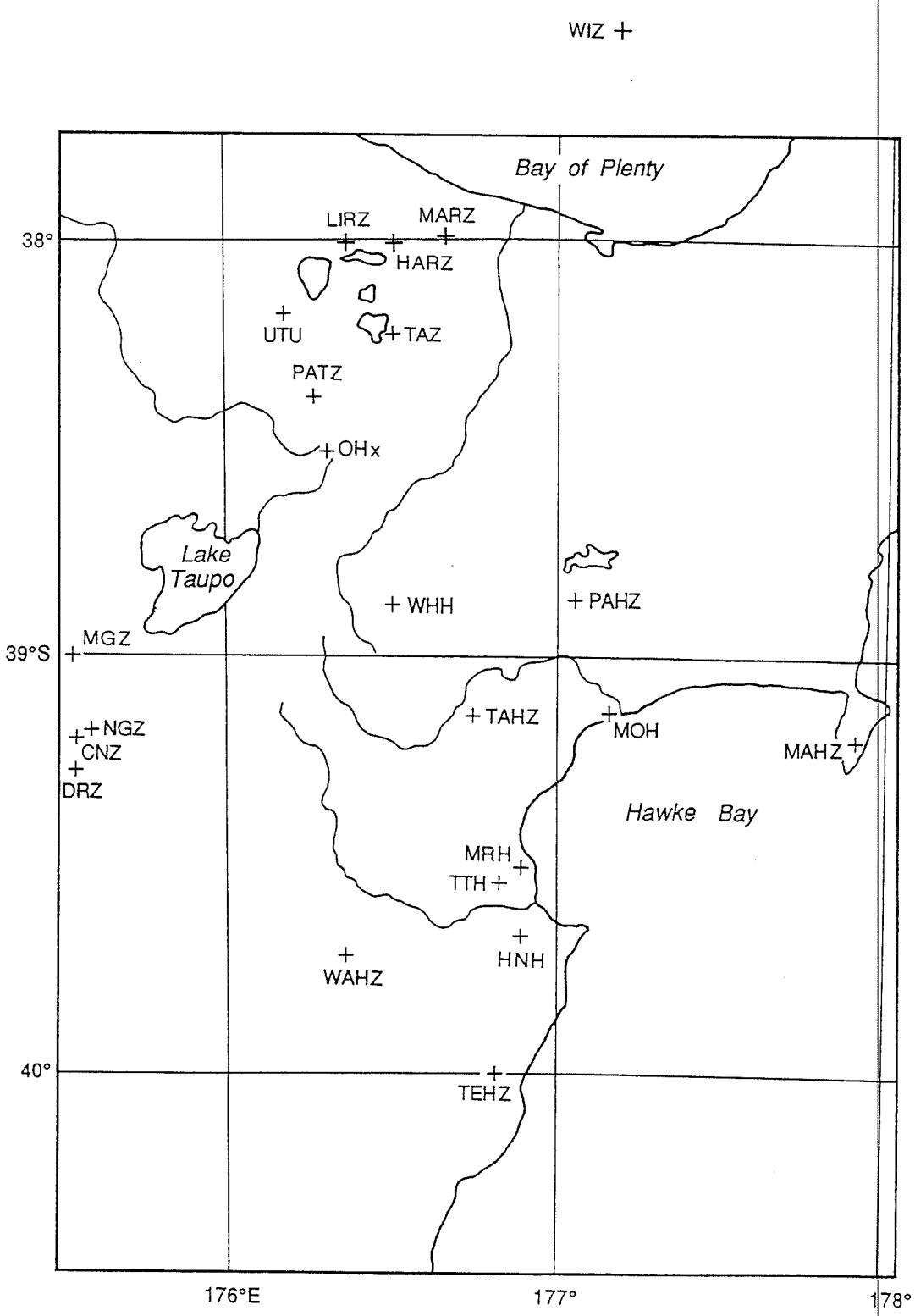
Code	Station	Component(s)
AMW	Mt Adams	Z
BBW	Blackbirch	Z
BHW	Baring Head	Z
BLW	Big Hill	Z
CAW	Cannon Point	Z
CCW	Cape Campbell	Z
DIW	D'Urville Island	Z
GFW	Glenfield	Z
KIW	Kapiti Island	Z
MOW	Moikau	Z
MRW	Makara Radio	ZNE
MTW	Mount Morrison	Z
OTW	Orongorongo Valley	Z
TCW	Tory Channel	Z
WDW	Wainui Dam	Z
WEL	Wellington	ZNE



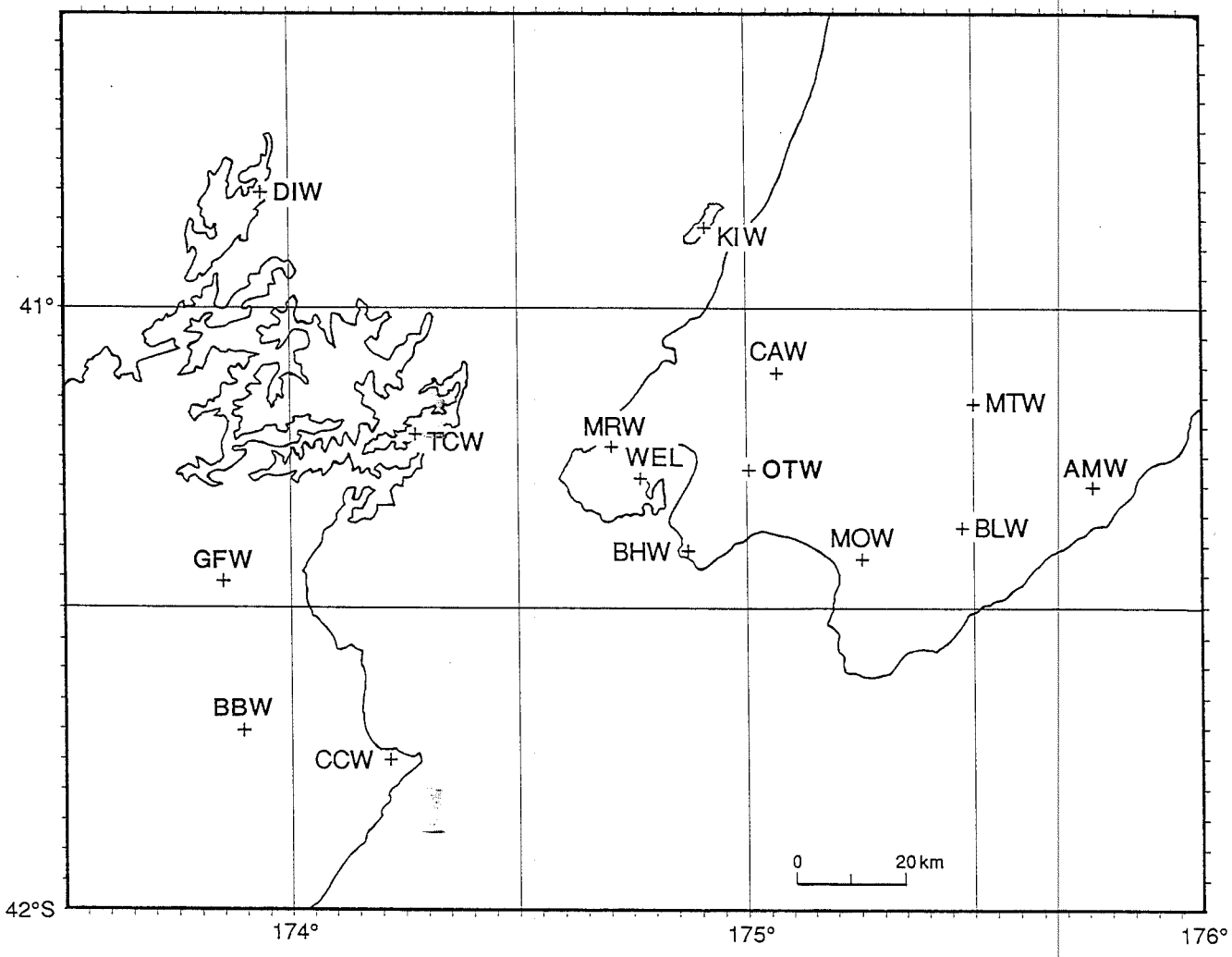
Period response curve of L4C seismometers with EARSS recorders.



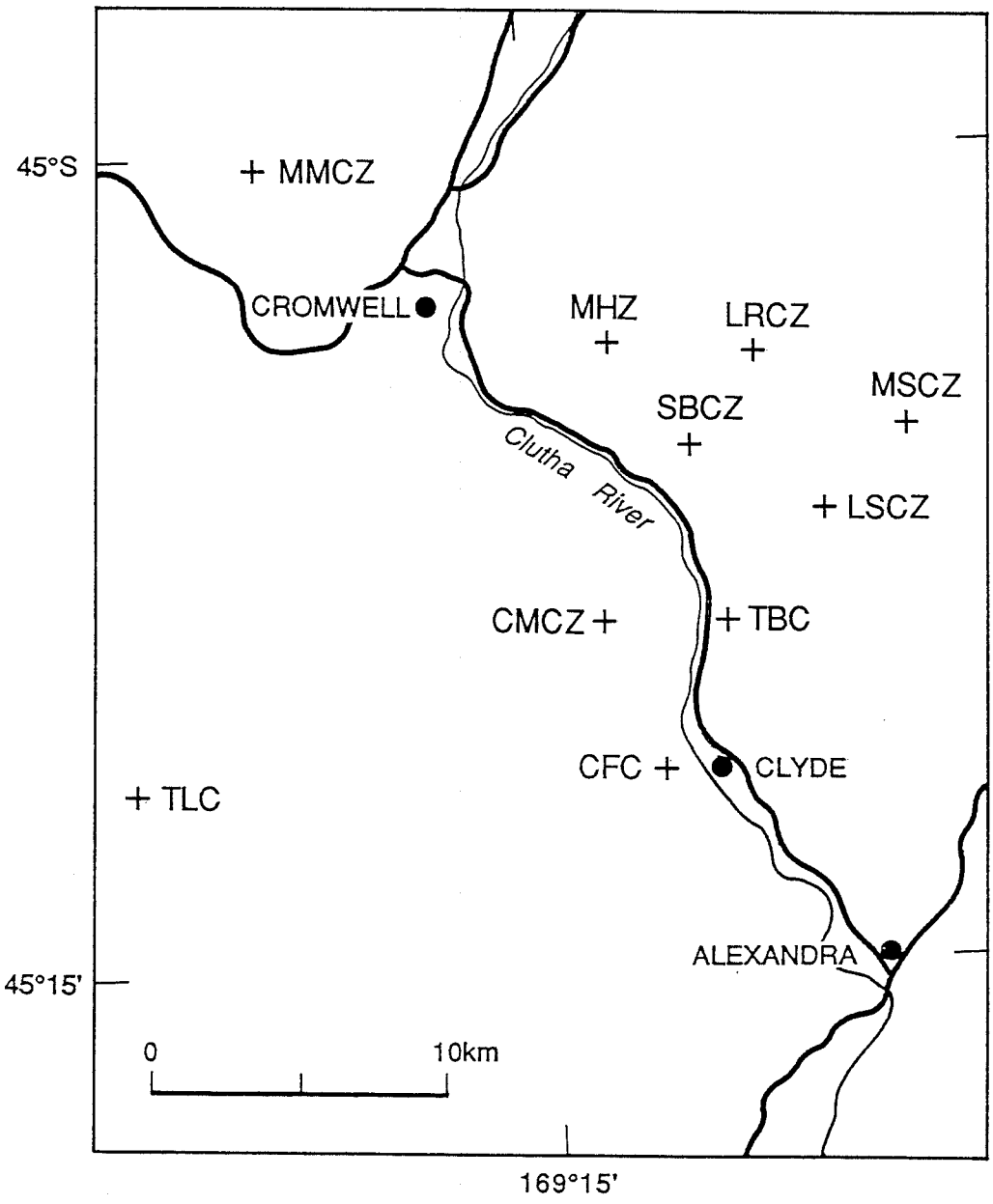
Stations of the National Seismograph Network. Some stations that are too closely spaced to show on this scale are shown instead on the map of the Volcanic and Hawke's Bay Networks. The inner and outer polygons define areas where accuracy of epicentre locations is considered reliable, less reliable and inadequate.



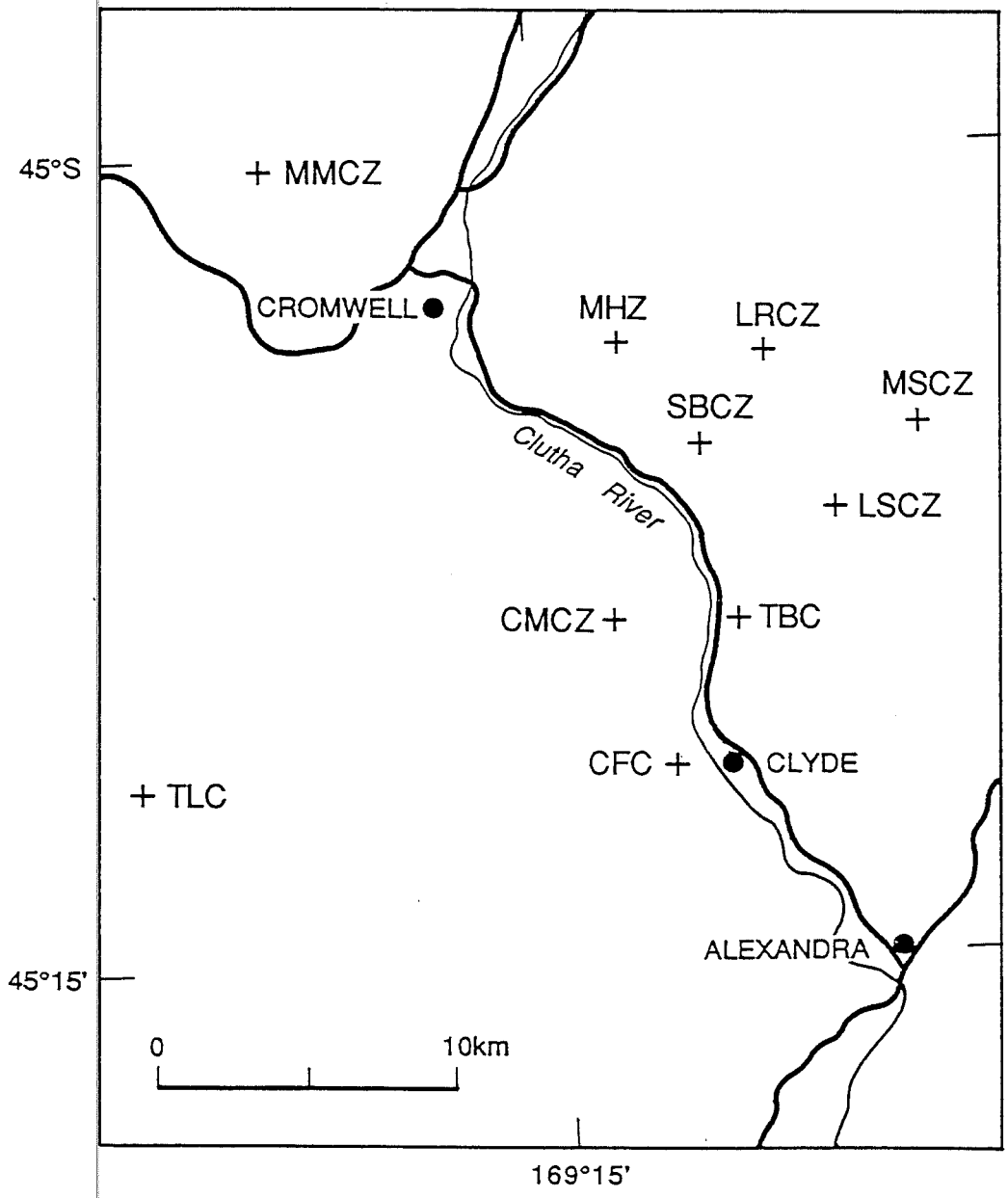
Stations of the Volcanic and Hawke's Bay Networks. Other stations lying within the boundaries of the map are also shown.



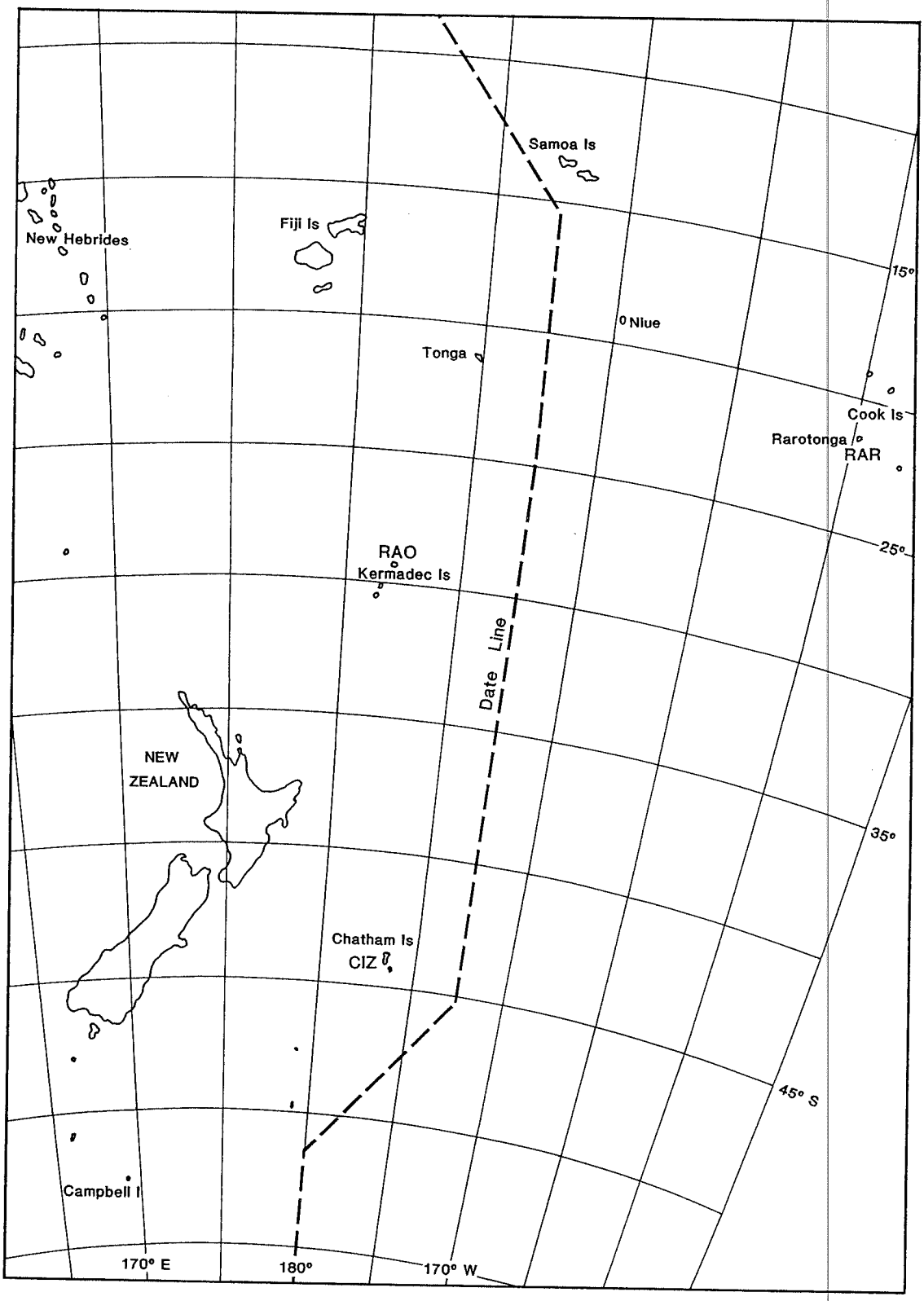
The Wellington Network includes stations on both sides of Cook Strait.



The Clyde Network monitors seismic activity around the Clyde Dam.



The Clyde Network monitors seismic activity around the Clyde Dam.



Pacific Island Stations.

TIMING ARRANGEMENTS

Unless stated otherwise, times in this Report are given in Universal Time (U.T. or, more strictly, U.T.C., which is basically atomically kept time, adjusted when necessary by one second steps ("leap seconds") to agree with the astronomically determined time known as UT1). For most seismological and civil purposes this may be regarded as the Mean Solar Time of the Greenwich meridian.

On paper seismograms made by the national network, minute marks, derived from quartz crystal clocks of high stability, appear on records as abrupt trace deflections of about two seconds duration. Radio time signals also operate the trace deflector so that the relationship between the locally generated minute marks and Universal Time can be established. In most cases the radio signals are those of the New Zealand Time Service, transmitted hourly through the stations of Radio New Zealand, but in areas where local reception is bad, a time signal broadcast from overseas may be used. It is estimated that the total error in time-signal recording resulting from signal transmission and delay in operation of the trace deflector should never exceed 30 milliseconds.

SNARE and EARSS instruments are also equipped with high stability clocks and radio receivers tuned to pick up Time Service signals. A software routine establishes a clock drift rate and applies a correcting signal calculated to bring the clock smoothly into synchronism with the time signals (which are usually received hourly). The difference between internally kept time and Time Service times is recorded and a correction applied by CUSP interactive display software to the phase onset times chosen by analysts. Corrected arrival times are expressed to a precision of one hundredth of a second, usually with an accuracy of a few hundredths, but errors of almost a tenth of a second have occasionally been detected.

Stations of the World-Wide Standard Seismograph Network have the timing arrangements usual at such stations. At other stations beyond New Zealand, time signals originating from the national Time Service or some other reliable time service are used.

It is sometimes desirable to know the local civil time at which an earthquake occurred. The times now used for civil purposes in New Zealand (except the Chatham Islands) are New Zealand Standard Time, and New Zealand Daylight Time, which are defined in the Time Act, 1974. New Zealand Standard Time is 12 hours, and New Zealand Daylight Time 13 hours, ahead of U.T. The period of Daylight Time is specified by Order in Council, as provided by the Act, and in 1992 Daylight Time was in effect until 02h NZST on March 15th, and from 02h NZST on October 4th until the end of the year.

The time observed in the Chatham Islands is 45 minutes in advance of that currently in use in New Zealand. New Zealand Standard Time is observed at Scott Base, in Fiji and on Raoul Island. Times kept elsewhere in the South Pacific are set by the governments of the respective countries. Those used in places which sometimes report earthquakes to the Observatory are listed below.

Western Samoa	11h 00m behind U.T.
Niue	11h 00m behind U.T.
Rarotonga	10h 00m behind U.T.
Tonga	13h 00m ahead of U.T.
Norfolk Island	11h 30m ahead of U.T.
French Polynesia	10h 00m behind U.T.

Note that Western Samoa, Niue, Rarotonga and French Polynesia are on the opposite side of the International Date Line from New Zealand.

ORIGIN INFORMATION

CONTENT

This section contains origin times, epicentres, focal depths, and magnitudes of earthquakes in the New Zealand region that the Observatory has located from instrumental data, together with indicators of the quality of the data used.

In the areas within the inner and outer polygons outlined on the map on page 20, the Observatory attempts to determine origins for all shallow earthquakes of M_L 3.5 or more, and all shocks of M_L 4.0 or more, respectively. (Origins are regarded as shallow if their depth is less than 60 km.) Origins are also calculated for smaller or more distant earthquakes reported to have been felt in New Zealand. Weak shocks felt during earthquake swarms do not automatically get this individual attention, but an origin is found for at least one shock in any sequence giving rise to felt reports.

DETERMINATION OF ORIGINS

Earthquake origins are determined using P & S phases or first-arriving crustal P & S phases. Four different velocity/depth structures are used to calculate travel-times of rays passing through and immediately beneath the crust in different parts of the country (see table below). Beneath the "Moho" defined by these models, velocities are smoothly merged with those of the Jeffreys-Bullen Tables (British Association for the Advancement of Science, 1958). The Standard velocity model is used to calculate crustal velocities beneath all regions except those defined in the following table.

MODEL	UPPER DEPTH BOUNDARY (km)	Vp (km/s)	Vs (km/s)	CORNERS OF REGION Lat.	Long.
				(in clockwise order)	
New Zealand Standard	0.0	5.5	3.3		
	12.0	6.5	3.7		
	33.0	8.1	4.6		
Wellington	0.0	4.40	2.54	41.0 S	178.0 E
	0.4	5.63	3.16	43.5 S	175.0 E
	5.0	5.77	3.49	42.0 S	173.0 E
	15.0	6.39	3.50	39.7 S	175.7 E
	25.0	6.79	3.92		
	35.0	8.07	4.80		
	45.0	8.77	4.86		
Taupo	0.0	3.00	1.70	35.6 S	180.0 E
	2.0	5.30	3.00	38.0 S	177.5 E
	5.0	6.00	3.50	39.7 S	175.7 E
	15.0	7.40	4.30	39.0 S	175.0 E
	33.0	7.78	4.39	37.0 S	176.0 E
	65.0	7.94	4.51	34.6 S	178.5 E
	96.4	8.08	4.52		
Clyde	0.0	4.4	2.6	45.5 S	172.0 E
	0.5	6.0	3.3	49.0 S	167.0 E
	12.0	6.5	3.7	44.5 S	168.0 E
	33.0	8.1	4.6	44.0 S	169.0 E

Seismograms are displayed on high-resolution graphics monitor screens under the control of CUSP (Caltech-USGS Seismic Processor) interactive software, for an analyst to select phase onset times by positioning a cursor on the trace. The analyst also selects the amplitude maximum to be used in magnitude calculations. Whenever possible, locations are based exclusively on times of first-arriving P and S phases.

Weights are initially assigned to phase arrival times by analysts according to the precision of the measurement. The weight of readings is further modified by the location program, which, after each iteration, weights the residuals used to adjust the trial origin. The procedure (see Jeffreys, H., 1939: Probability Theory, Cambridge University Press) greatly reduces the weight given to phases with residuals greater than three standard errors.

In general, all four coordinates 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 restricted to some chosen depth. This is most commonly done for crustal earthquakes. Unless there is a station within 25 km of a shock in the upper crust, or within 50 km of a shock in the lower crust, a nominal depth of either 12 or 33 km is usually assigned, according to the crustal phases present and the goodness of fit of the resulting solution. Less often, the depth is restricted to a smaller value, particularly when the strengths of locally reported felt intensities indicate an uncommonly shallow focus. The letter R printed after the depth in the lists which follow indicates a restriction for any of the foregoing reasons. There are also times when data not suitable for input to the location program (e.g. overseas PKP readings), indicate the depth of focus; in such cases the depth is similarly fixed and the restriction shown by following the depth by the letter G (to indicate intervention by a Geophysicist). When convergence of the location program fails for lack of enough data, both epicentre and depth are fixed at values consistent with the available information, and computation limited to finding a compatible origin time. Such doubly-restricted origins have the letters RR printed after the depth.

In routine origin determinations, sufficient of the stations nearest to the epicentre are read to ensure that there will be enough data for a satisfactory solution. When enough near observations are available, arrival times recorded at stations more distant from the epicentre are excluded from the calculations. Observatory analysts are free to completely reject data which they think to be unreliable, or to assign a low initial weight to it in the location program's procedure for minimising mean residuals. (See earlier details of how the weights are used).

In using the results in this section, it is essential to keep in mind that the positions of earthquakes with epicentres outside the network of seismograph stations can be very uncertain, even though the mean residual is small. With the aim of helping the reader to assess the reliability of the results presented here, the positional relationships between an epicentre, and the stations which recorded the data used to find it, are given after the calculated origin coordinates. Similarly, the number of magnitude estimates contributing to the mean value, and an indication of their scatter, are also shown.

The solutions presented here are in all cases based upon uniform procedures applied to laterally homogeneous models. Because well-established local models have been used to calculate the origins of shocks within the Wellington and Clyde Networks, systematic errors in these areas should be smaller than in other parts of the country.

The extensive development of CUSP software necessary to adapt it for use in New Zealand was undertaken by Dr T Webb and Dr E Smith.

MAGNITUDES

The magnitudes assigned to local earthquakes are intended to be the values of M_L as originally defined by C.F. Richter (Bull. Seism. Soc. Am. 25: 1-32, 1935), but his procedure for performing the magnitude calculation at other than the standard distance of 100 km has been modified, to take account of the observed characteristics of energy propagation in New Zealand, including the effect of focal depth (Haines, A.J., Bull. Seism. Soc. Am. 71: 275-94, 1981).

For stations more than 100 km away from the epicentre, an amplitude-distance relationship of the form

$$A = A_o R^{-N} \exp (- \alpha R)$$

where A is an amplitude recorded at an epicentral distance R, A_o is a calibration function, N is a geometric spreading factor and α is an inelastic attenuation coefficient, has been found appropriate for all parts of the country.

For all New Zealand crustal earthquakes N is 2 and α generally takes a value close to 0. With these values, the relationship describes head-wave propagation with no attenuation. In the Central Volcanic Region, however, (see Map, page 32), α takes values of 0.8 deg^{-1} for P waves and 1.05 deg^{-1} for S waves. Adjustments are therefore made according to the distance travelled in the volcanic region.

For deep earthquakes in the Main Seismic Region the same parameters as for crustal earthquakes apply (N = 2, α = 0), provided that (i) R now measures the slant distance from the focus to the base of the crust, and (ii) stations to the west of the volcanic region or south of the Main Seismic Region are not used, because the structure there necessitates different spreading and attenuation terms.

For deep earthquakes in Fiordland the same amplitude-distance relationship is used, with (i) N given the value 1 (body wave propagation), (ii) α increasing with focal depth, and (iii) stations in the North Island not used, because of variations of the coefficients N and α. Milford Sound (MSZ), Braida Crags (BCZ), and Deep Cove (DCZ) should ideally be excluded for the same reason, but as they are sometimes the only stations from which any estimate of magnitude can be made, they are used when necessary, with N = 2 and α = 0.

For stations closer than 100 km to the epicentre, the formula

$$M_A = \log_{10} A + 1.0 \log_{10} R + 0.0029 R + K$$

developed by R. Robinson (Pageoph 125: 579-596, 1987) is used, where A is the maximum digital count, R is the slant distance from the station to the earthquake focus (in kilometres) and K is a station correction allowing for site factors.

Empirical corrections are applied to allow for differences in site effects. They are made in such a manner as to give the most consistent estimates of magnitude from the different stations, and their absolute level is adjusted to give a standard Wood-Anderson instrument at Wellington a zero correction, a procedure that can be justified on *a priori* grounds and provides a smooth connection with previously published New Zealand magnitudes. Station corrections (see Table on page 29 for synthetic Wood-Anderson values) are added to the individual estimates of magnitude, which are then averaged.

The amplitudes on which magnitude calculations are based are no longer published, but the number of measurements and the number of stations contributing to the average magnitude are listed (e.g. "5M/4stn" appearing in a data summary indicates that 5 amplitude measurements of records from 4 stations were used to compute an average).

The definitive local magnitude is finally calculated as a weighted average of all station estimates. Estimates from stations at distances less than 100 km are given half weight, as are stations BCZ, DCZ, and MSZ for deep earthquakes in Fiordland. When 8 or more synthetic Wood-Anderson readings are available, magnitudes derived from vertical component amplitudes are given zero weight.

CALCULATION OF AMPLITUDES

Synthetic Wood-Anderson seismograms are computed for all horizontal components at non-telemetered EARSS stations having Mark Products L4-C 1Hz seismometers or, in the case of WEL, a Kinemetrics force-balance accelerometer (see Map, page 30). The Wood-Anderson gain used is 2080. The maximum amplitude for each computed trace is picked automatically, but can be updated by the analyst. Only amplitudes exceeding a pre-determined level for each station are given weight in the calculations to avoid amplitudes being picked from micro-seismic noise.

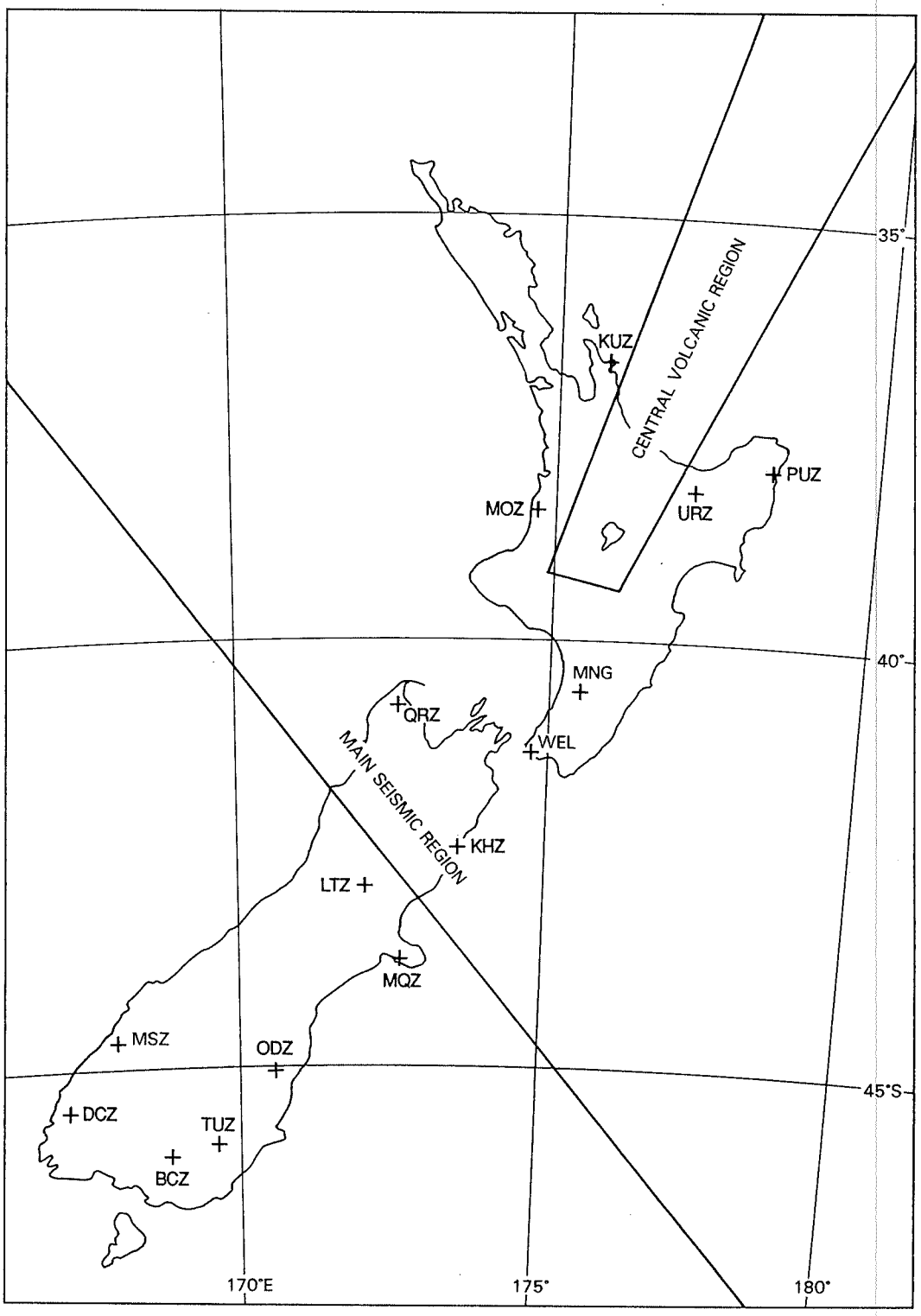
Maximum amplitudes are also picked off vertical traces for both telemetered and non-telemetered stations. This is necessary to obtain readings for small events. For very small events, traces are high-pass filtered to enable an amplitude to be picked. Magnitudes are unable to be calculated for only a few small deep events for which no east coast station has been triggered.

Note that there are usually two horizontal seismograms for each 3-component station, so that synthetic Wood-Anderson values tend to dominate the average magnitude.

Magnitude corrections for the two classes of focal depth, for earthquakes recorded on synthetic Wood-Anderson seismograms.

Station	Component		Correction (H_33 km)	Correction (H>33 km)
BCZ	E	Fiordland only		+0.36
BCZ	E	All shallow	+0.18	
DCZ	H	Fiordland only		+0.59
DCZ	H	All shallow	+0.60	
KHZ	H		+0.43	+0.33
KUZ	H		+0.36	
LTZ	H		+0.59	
MNG	H		+0.51	+0.45
MOZ	H		+0.36	
MQZ	H		+0.46	
MSZ	H	Fiordland only		+0.21
MSZ	H	All shallow	+0.35	
ODZ	H		+0.45	
PUZ	H		+0.29	+0.57
QRZ	H		+0.35	
TUZ	H		+0.31	
URZ	H		+0.35	+0.67
WEL	P, Q		+0.30	+0.30
WEL	N		0.00	0.00
WEL	E		+0.09	+0.09

H refers to horizontal seismometers, either N/S or E/W.
P, Q refer to the Wood-Anderson seismograph operated at WEL at a gain of 1400. Note that WEL E needs a slight empirical correction to agree with the N component and with the standard Wood-Anderson instrument.



Stations and regions used for determination of magnitudes from digital records.

DATA FROM THE NATIONAL NETWORK

LAYOUT

The first entry for each earthquake is the reference number, used throughout the Report. The second line gives the origin coordinates and the magnitude and the third line shows, beneath each of the coordinates in line two, its standard error. Where depth has been restricted, the letter R or G in place of the standard error indicates the fact. The fourth line starts with Rsd, the standard deviation of residuals, an indication of how well the adopted origin reconciles the available data with the earth models used by the location program. Formally,

$$\text{Rsd} = \left[\sum_{i=1}^{n} \{(w_i\, r_i / 100)^2 / (n-m)\} \right]^{1/2}$$

where r_i is the ith residual, w_i its weight, n the number of readings and m the number of parameters determined (4 for unrestricted depth, 3 when depth is restricted.) When the number of readings used and the number of parameters are the same, the standard errors and Rsd are not defined. This is shown by the letters ND. The remainder of the fourth line and most of the fifth line present information indicating to the reader the degree of constraint on the adopted origin. Xph/Ystn shows that X phases from Y stations were used in the determination of the origin. (All phases given non-zero weight are counted but stations which failed to provide such a phase are not). Dmin is the distance from the epicentre to the nearest of these Y stations and Az. gap is the greatest angular gap in their distribution about the epicentre.

Corr. is the correlation coefficient of the errors in latitude and longitude. It may be used to construct an epicentral confidence region. (See Flinn, E.A., 1965, "Confidence regions and error determinations for seismic event locations". Rev. Geophys. 3: 156-185.) pM/Qstn shows that p magnitude estimates from phases recorded at Q stations contributed to the average value shown on line two. Msd is the standard deviation of the magnitude estimates.

The numbers of upward and downward first motions recorded are indicated at the end of line five.

Additional information may be appended to the above. This usually consists of a short summary of the places where a shock has been felt and the intensities there, but may include other comments. Further details of reports received by the Observatory concerning the effects of earthquakes and the intensities assessed from these observations appear in later sections of this Report.

The telemetered networks all detect earthquakes of very small magnitude in their respective regions. These are all located and the data are held in the Observatory's archives. The following list, however, contains only those events which were of magnitude 3.5 or greater, or were reported felt. Smaller events have been excluded, as have events located more than 10° from Wellington.

92/2
JAN 01 0020 02.7s 37.03S 176.63E 210km M=3.6
1.2 0.14 0.16 9
Rsd 0.5s 7ph/5stn Dmin 142km Az.gap 274°
Corr. -0.816 4M/4stn Msd 0.1

92/7
JAN 01 0711 43.2s 38.76S 175.73E 120km M=3.8
0.3 0.02 0.02 3
Rsd 0.2s 15ph/11stn Dmin 53km Az.gap 101°
Corr. -0.260 14M/13stn Msd 0.3

92/20
JAN 01 1725 01.7s 43.60S 169.57E 5km M=3.1
0.1 0.01 0.01 R
Rsd 0.1s 17ph/12stn Dmin 27km Az.gap 161°
Corr. -0.559 11M/10stn Msd 0.2
Felt Mahitahi (104) MM4.

92/30
JAN 02 0927 37.2s 45.14S 167.47E 123km M=3.5
0.3 0.02 0.02 2
Rsd 0.2s 24ph/14stn Dmin 44km Az.gap 179°
Corr. -0.324 14M/12stn Msd 0.2 1↓

92/43
JAN 02 2337 31.3s 38.35S 175.97E 187km M=4.8
0.5 0.02 0.03 4
Rsd 0.3s 26ph/14stn Dmin 63km Az.gap 76°
Corr. 0.303 10M/4stn Msd 0.2 15↑ 4↓

92/53
JAN 03 0915 57.5s 37.28S 177.49E 118km M=3.6
0.1 0.01 0.01 1
Rsd 0.1s 7ph/5stn Dmin 80km Az.gap 255°
Corr. -0.684 10M/10stn Msd 0.2 1↓

92/57
JAN 03 1429 40.2s 36.76S 177.36E 182km M=3.6
1.2 0.12 0.15 9
Rsd 0.5s 10ph/8stn Dmin 125km Az.gap 294°
Corr. -0.781 9M/9stn Msd 0.2

92/58
JAN 03 1729 18.9s 43.76S 169.55E 5km M=2.9
0.2 0.01 0.01 R
Rsd 0.2s 14ph/11stn Dmin 23km Az.gap 119°
Corr. 0.207 15M/15stn Msd 0.2 1↓
Felt Mahitahi (104) MM4.

92/71
JAN 04 0328 00.3s 38.59S 178.07E 31km M=4.9
0.2 0.01 0.03 3
Rsd 0.2s 19ph/16stn Dmin 5km Az.gap 129°
Corr. -0.547 20M/9stn Msd 0.2 1↑ 4↓
Felt Gisborne (44,45) MM4.

92/86
JAN 04 1723 48.4s 41.32S 172.74E 169km M=3.7
0.3 0.01 0.02 2
Rsd 0.3s 27ph/18stn Dmin 51km Az.gap 103°
Corr. -0.214 12M/12stn Msd 0.2 1↑ 2↓

92/91
JAN 04 2236 35.0s 37.98S 175.98E 167km M=3.6
0.2 0.01 0.02 2
Rsd 0.1s 16ph/14stn Dmin 104km Az.gap 147°
Corr. 0.355 10M/10stn Msd 0.2

92/98
JAN 05 0235 21.4s 41.19S 172.56E 5km M=3.5
0.2 0.02 0.02 R
Rsd 0.4s 20ph/15stn Dmin 41km Az.gap 130°
Corr. -0.152 27M/23stn Msd 0.2 1↑ 3↓

92/105
JAN 05 1004 42.3s 41.30S 172.76E 154km M=4.5
0.3 0.02 0.02 3
Rsd 0.3s 33ph/21stn Dmin 53km Az.gap 102°
Corr. -0.311 8M/3stn Msd 0.2 9↑ 3↓

92/127
JAN 06 0923 52.2s 41.03S 172.84E 175km M=3.5
0.4 0.02 0.02 3
Rsd 0.3s 29ph/18stn Dmin 35km Az.gap 83°
Corr. -0.064 13M/13stn Msd 0.2 1↑ 3↓

92/129
JAN 06 1056 37.3s 39.06S 175.44E 149km M=3.7
0.4 0.01 0.02 3
Rsd 0.3s 22ph/14stn Dmin 12km Az.gap 101°
Corr. -0.279 15M/15stn Msd 0.2 5↑ 1↓

92/147
JAN 07 0632 39.7s 39.73S 174.28E 117km M=3.8
0.4 0.01 0.02 4
Rsd 0.3s 32ph/22stn Dmin 53km Az.gap 95°
Corr. 0.054 14M/13stn Msd 0.3 9↑ 1↓

92/149
JAN 07 0812 17.3s 40.32S 173.45E 155km M=4.4
0.3 0.01 0.01 3
Rsd 0.2s 35ph/23stn Dmin 67km Az.gap 147°
Corr. -0.058 21M/19stn Msd 0.2 5↑ 3↓

92/153
JAN 07 1116 22.2s 38.71S 175.91E 145km M=3.6
0.8 0.06 0.06 4
Rsd 0.3s 13ph/7stn Dmin 59km Az.gap 195°
Corr. -0.867 12M/12stn Msd 0.1

92/176
JAN 07 2354 49.2s 40.49S 173.36E 148km M=3.7
0.3 0.01 0.01 3
Rsd 0.2s 28ph/16stn Dmin 59km Az.gap 139°
Corr. -0.031 15M/13stn Msd 0.2 2↑ 1↓

92/184
JAN 08 0944 16.9s 40.23S 173.92E 126km M=4.2
0.3 0.01 0.01 3
Rsd 0.2s 40ph/23stn Dmin 63km Az.gap 121°
Corr. -0.097 21M/17stn Msd 0.2 5↑ 3↓

92/186
JAN 08 1413 30.3s 40.43S 173.89E 113km M=3.6
0.3 0.01 0.01 3
Rsd 0.2s 36ph/21stn Dmin 41km Az.gap 132°
Corr. -0.247 18M/15stn Msd 0.2 3↑ 1↓

92/187
JAN 08 1444 24.5s 47.47S 165.40E 33km M=4.7
0.5 0.03 0.04 R
Rsd 0.2s 15ph/11stn Dmin 218km Az.gap 319°
Corr. 0.061 9M/5stn Msd 0.2 2↑ 2↓

92/195
JAN 08 2042 00.2s 43.48S 171.08E 12km M=4.0
0.1 0.01 0.01 R
Rsd 0.1s 26ph/17stn Dmin 19km Az.gap 89°
Corr. 0.013 12M/6stn Msd 0.2 7↑ 3↓

92/199
JAN 08 2123 05.7s 39.66S 174.44E 108km M=3.5
0.3 0.01 0.02 4
Rsd 0.2s 30ph/20stn Dmin 45km Az.gap 143°
Corr. -0.118 16M/14stn Msd 0.1 6↑ 1↓

92/223
JAN 09 1519 15.0s 37.10S 177.43E 149km M=4.0
0.7 0.04 0.04 7
Rsd 0.4s 11ph/10stn Dmin 95km Az.gap 202°
Corr. 0.334 19M/19stn Msd 0.2 2↑ 2↓

92/231
JAN 09 2241 05.2s 38.18S 176.13E 143km M=3.6
0.7 0.05 0.04 4
Rsd 0.3s 12ph/9stn Dmin 84km Az.gap 244°
Corr. -0.629 17M/17stn Msd 0.2 1↑

92/239
JAN 10 0930 52.9s 38.84S 178.28E 52km M=4.0
0.1 0.01 0.01 1
Rsd 0.1s 14ph/9stn Dmin 32km Az.gap 216°
Corr. -0.617 24M/20stn Msd 0.2 1↑ 1↓

92/246
JAN 10 1427 40.2s 39.36S 175.40E 87km M=3.5
0.2 0.01 0.01 3
Rsd 0.2s 36ph/24stn Dmin 27km Az.gap 91°
Corr. -0.030 22M/20stn Msd 0.3 1↓

92/262
JAN 11 0058 20.4s 37.38S 179.76E 33km M=4.3
0.6 0.04 0.05 R
Rsd 0.2s 16ph/11stn Dmin 131km Az.gap 290°
Corr. 0.247 34M/30stn Msd 0.2

92/275
JAN 11 0923 06.6s 37.92S 176.11E 175km M=4.0
0.3 0.03 0.01 2
Rsd 0.1s 11ph/9stn Dmin 96km Az.gap 200°
Corr. -0.058 23M/21stn Msd 0.2

92/281
JAN 11 1217 49.8s 35.87S 178.22E 165km M=3.9
0.4 0.04 0.07 7
Rsd 0.2s 11ph/7stn Dmin 192km Az.gap 325°
Corr. -0.293 15M/15stn Msd 0.2

92/287
JAN 11 1746 21.9s 44.48S 171.01E 12km M=3.7
0.1 0.01 0.02 R
Rsd 0.3s 25ph/15stn Dmin 69km Az.gap 148°
Corr. -0.582 8M/4stn Msd 0.2 1↑

92/292
JAN 11 1941 08.5s 36.79S 176.52E 285km M=3.6
0.6 0.07 0.11 8
Rsd 0.2s 10ph/8stn Dmin 172km Az.gap 279°
Corr. -0.906 10M/10stn Msd 0.1

92/301
JAN 12 0557 50.6s 36.79S 176.95E 252km M=3.6
0.4 0.02 0.03 3
Rsd 0.1s 10ph/7stn Dmin 110km Az.gap 243°
Corr. 0.093 9M/9stn Msd 0.1

92/311
JAN 12 1935 30.9s 37.52S 179.58E 5km M=4.0
0.2 0.02 0.02 R
Rsd 0.1s 12ph/6stn Dmin 114km Az.gap 296°
Corr. -0.115 14M/9stn Msd 0.2 1↓

92/313
JAN 12 2054 05.2s 39.29S 174.62E 209km M=4.5
0.5 0.02 0.04 4
Rsd 0.2s 28ph/22stn Dmin 59km Az.gap 105°
Corr. -0.305 16M/13stn Msd 0.2 1↑

92/326
JAN 13 0803 43.8s 37.02S 179.88W 33km M=3.5
0.8 0.05 0.07 R
Rsd 0.3s 8ph/5stn Dmin 174km Az.gap 312°
Corr. -0.182 5M/5stn Msd 0.0

92/327
JAN 13 0808 09.1s 40.32S 174.21E 113km M=4.6
0.3 0.01 0.01 3
Rsd 0.2s 31ph/23stn Dmin 59km Az.gap 100°
Corr. -0.034 10M/4stn Msd 0.2 8↑ 7↓
Felt Palmerston North (62).

92/328
JAN 13 0907 57.8s 35.30S 178.76E 220km M=3.9
0.6 0.21 0.09 31
Rsd 0.2s 6ph/4stn Dmin 258km Az.gap 344°
Corr. 0.229 2M/2stn Msd 0.1

92/329
JAN 13 0957 41.4s 37.06S 179.88W 33km M=3.7
0.8 0.05 0.08 R
Rsd 0.4s 9ph/5stn Dmin 172km Az.gap 312°
Corr. -0.216 6M/4stn Msd 0.1

92/335
JAN 13 1327 50.4s 39.75S 173.95E 207km M=4.0
0.6 0.02 0.05 6
Rsd 0.3s 21ph/15stn Dmin 84km Az.gap 163°
Corr. -0.391 17M/16stn Msd 0.3

92/343
JAN 13 1819 02.9s 37.87S 175.94E 190km M=3.6
0.2 0.03 0.03 2
Rsd 0.1s 11ph/7stn Dmin 112km Az.gap 272°
Corr. -0.461 9M/9stn Msd 0.2

92/345
JAN 13 2010 24.4s 38.26S 178.42E 5km M=4.2
0.4 0.01 0.04 R
Rsd 0.3s 13ph/10stn Dmin 26km Az.gap 213°
Corr. 0.210 31M/27stn Msd 0.2 2↑ 1↓

92/361
JAN 14 1524 43.3s 38.04S 176.55E 136km M=4.0
0.3 0.02 0.02 2
Rsd 0.2s 11ph/7stn Dmin 22km Az.gap 112°
Corr. -0.042 14M/13stn Msd 0.4 1↑

92/373
JAN 15 0210 28.4s 45.03S 167.55E 86km M=3.9
0.3 0.01 0.02 2
Rsd 0.2s 25ph/16stn Dmin 49km Az.gap 184°
Corr. -0.424 9M/5stn Msd 0.1 10↑ 3↓

92/383
JAN 15 0614 57.2s 38.60S 175.35E 233km M=5.3
0.6 0.03 0.03 4
Rsd 0.2s 35ph/28stn Dmin 49km Az.gap 87°
Corr. -0.258 10M/4stn Msd 0.2 10↑ 5↓
Felt Patoka (52) MM4.

92/420
JAN 16 1706 00.4s 36.92S 177.31E 198km M=4.0
0.3 0.03 0.02 3
Rsd 0.1s 13ph/9stn Dmin 116km Az.gap 214°
Corr. 0.625 17M/14stn Msd 0.2 1↑

92/422
JAN 16 1724 31.5s 38.25S 177.28E 53km M=4.0
0.2 0.01 0.01 2
Rsd 0.2s 33ph/25stn Dmin 15km Az.gap 91°
Corr. 0.197 26M/22stn Msd 0.2 6↑ 5↓

92/462
JAN 18 0218 07.9s 38.49S 175.68E 233km M=3.6
0.8 0.09 0.05 16
Rsd 0.2s 16ph/14stn Dmin 272km Az.gap 314°
Corr. 0.424 10M/10stn Msd 0.2
No data from close stations.

92/466
JAN 18 0345 15.3s 38.50S 175.87E 144km M=3.7
0.4 0.02 0.02 4
Rsd 0.2s 16ph/13stn Dmin 84km Az.gap 157°
Corr. -0.445 15M/15stn Msd 0.2

92/470
JAN 18 0731 30.9s 38.69S 176.15E 33km M=3.1
0.2 0.01 0.02 R
Rsd 0.1s 6ph/5stn Dmin 35km Az.gap 219°
Corr. -0.617 6M/6stn Msd 0.4
Felt Waihora Rd (40) MM4.

92/471
JAN 18 0746 54.8s 38.29S 175.67E 225km M=3.6
0.8 0.04 0.04 5
Rsd 0.0s 11ph/10stn Dmin 99km Az.gap 259°
Corr. -0.750 7M/7stn Msd 0.1

92/479
JAN 18 1433 46.6s 39.09S 175.57E 202km M=3.7
0.3 0.03 0.04 2
Rsd 0.1s 16ph/11stn Dmin 20km Az.gap 157°
Corr. -0.863 7M/7stn Msd 0.2

92/502
JAN 19 1209 56.7s 36.35S 177.61E 230km M=3.9
1.4 0.13 0.19 10
Rsd 0.4s 8ph/5stn Dmin 152km Az.gap 309°
Corr. -0.867 6M/6stn Msd 0.1

92/507
JAN 19 1434 45.0s 35.87S 178.11E 201km M=4.0
0.0 0.00 0.00 0
Rsd 0.0s 4ph/3stn Dmin 192km Az.gap 327°
Corr. -0.926 4M/4stn Msd 0.1

92/509
JAN 19 1629 15.8s 39.24S 178.63E 33km M=3.8
0.4 0.02 0.03 R
Rsd 0.1s 11ph/9stn Dmin 65km Az.gap 232°
Corr. -0.641 25M/21stn Msd 0.2

92/512
JAN 19 1805 50.0s 40.92S 173.08E 153km M=3.6
0.3 0.02 0.02 3
Rsd 0.2s 30ph/19stn Dmin 48km Az.gap 130°
Corr. -0.219 13M/13stn Msd 0.2

92/514
JAN 19 2028 29.2s 36.67S 177.47E 185km M=3.9
0.5 0.05 0.07 5
Rsd 0.2s 5ph/3stn Dmin 127km Az.gap 297°
Corr. -0.684 10M/8stn Msd 0.2

92/515
JAN 19 2205 13.0s 36.83S 177.51E 167km M=4.2
0.5 0.03 0.03 6
Rsd 0.2s 13ph/9stn Dmin 110km Az.gap 228°
Corr. 0.457 24M/20stn Msd 0.2 1↑

92/532
JAN 20 1207 28.2s 47.40S 165.67E 33km M=3.5
0.6 0.04 0.05 R
Rsd 0.2s 13ph/8stn Dmin 196km Az.gap 315°
Corr. 0.015 11M/11stn Msd 0.2

92/534
JAN 20 1245 31.7s 35.19S 179.10E 252km M=4.1
0.4 0.05 0.04 6
Rsd 0.1s 12ph/11stn Dmin 277km Az.gap 314°
Corr. 0.003 9M/9stn Msd 0.2

92/559
JAN 21 0716 09.5s 38.38S 175.98E 187km M=3.8
0.5 0.03 0.06 5
Rsd 0.2s 19ph/13stn Dmin 100km Az.gap 217°
Corr. -0.766 14M/12stn Msd 0.1

92/567
JAN 21 1846 23.1s 38.70S 176.05E 126km M=3.8
0.4 0.02 0.02 4
Rsd 0.2s 15ph/10stn Dmin 40km Az.gap 107°
Corr. -0.559 17M/16stn Msd 0.3 1↑ 3↓

92/578
JAN 22 0752 35.2s 38.28S 176.37E 159km M=4.0
0.5 0.03 0.02 4
Rsd 0.2s 10ph/6stn Dmin 65km Az.gap 189°
Corr. -0.073 15M/14stn Msd 0.4 1↑

92/597
JAN 22 2337 30.9s 38.08S 175.63E 303km M=3.6
0.4 0.06 0.08 8
Rsd 0.1s 11ph/8stn Dmin 219km Az.gap 246°
Corr. -0.957 8M/8stn Msd 0.2

92/602
JAN 23 0314 13.5s 47.41S 165.51E 33km M=4.1
0.3 0.02 0.03 R
Rsd 0.1s 18ph/12stn Dmin 208km Az.gap 317°
Corr. -0.095 23M/16stn Msd 0.2 1↑ 1↓

92/604
JAN 23 0435 03.8s 40.53S 173.38E 158km M=4.0
0.3 0.01 0.01 3
Rsd 0.2s 36ph/24stn Dmin 54km Az.gap 135°
Corr. -0.217 16M/14stn Msd 0.3 4↑ 1↓

92/607
JAN 23 0634 20.7s 38.15S 175.96E 275km M=4.2
0.4 0.02 0.04 3
Rsd 0.2s 18ph/12stn Dmin 101km Az.gap 186°
Corr. -0.523 18M/16stn Msd 0.2

92/614
JAN 23 1337 00.9s 37.78S 176.96E 5km M=3.8
0.4 0.03 0.03 R
Rsd 0.5s 12ph/9stn Dmin 55km Az.gap 176°
Corr. -0.003 14M/10stn Msd 0.2 1↑

92/622
JAN 23 2100 32.6s 37.54S 179.43E 12km M=3.8
0.9 0.06 0.08 R
Rsd 0.5s 10ph/7stn Dmin 100km Az.gap 318°
Corr. -0.283 7M/5stn Msd 0.2 1↑

92/625
JAN 23 2206 32.5s 40.48S 174.31E 88km M=3.9
0.3 0.01 0.02 4
Rsd 0.3s 28ph/22stn Dmin 49km Az.gap 91°
Corr. -0.057 14M/12stn Msd 0.3 11↑ 2↓

92/627
JAN 24 0102 07.1s 48.89S 164.60E 12km M=4.7
0.4 0.02 0.03 R
Rsd 0.1s 17ph/14stn Dmin 346km Az.gap 337°
Corr. 0.574 9M/5stn Msd 0.1 1↑

92/636
JAN 24 1355 32.7s 36.58S 177.24E 230km M=4.5
0.6 0.04 0.04 6
Rsd 0.3s 14ph/8stn Dmin 148km Az.gap 216°
Corr. 0.494 11M/6stn Msd 0.2 1↑

92/651
JAN 25 0344 56.0s 39.71S 174.15E 164km M=4.3
0.3 0.01 0.02 3
Rsd 0.2s 30ph/18stn Dmin 68km Az.gap 155°
Corr. -0.114 19M/15stn Msd 0.2 1↑

92/656
JAN 25 0654 02.3s 38.30S 176.05E 154km M=4.0
0.4 0.02 0.02 3
Rsd 0.2s 15ph/10stn Dmin 62km Az.gap 109°
Corr. -0.144 21M/16stn Msd 0.2 1↑

92/665
JAN 25 1910 31.1s 38.99S 175.86E 221km M=3.6
0.5 0.03 0.04 4
Rsd 0.1s 16ph/12stn Dmin 31km Az.gap 181°
Corr. -0.836 7M/7stn Msd 0.2 1↑

92/681
JAN 26 0956 15.0s 45.19S 167.38E 76km M=4.1
0.3 0.01 0.02 2
Rsd 0.2s 25ph/15stn Dmin 36km Az.gap 188°
Corr. -0.322 9M/5stn Msd 0.2 2↑ 8↓

92/688
JAN 26 1737 50.0s 40.54S 174.75E 58km M=3.5
0.2 0.01 0.01 3
Rsd 0.2s 29ph/18stn Dmin 38km Az.gap 72°
Corr. -0.238 12M/10stn Msd 0.2 1↑

92/720
JAN 28 0107 47.4s 38.32S 176.43E 144km M=3.6
0.3 0.01 0.01 3
Rsd 0.2s 16ph/12stn Dmin 62km Az.gap 85°
Corr. 0.216 13M/13stn Msd 0.3 1↓

92/723
JAN 28 0227 56.9s 36.02S 179.89E 272km M=4.0
0.6 0.04 0.07 4
Rsd 0.1s 10ph/8stn Dmin 225km Az.gap 332°
Corr. -0.555 8M/8stn Msd 0.2

92/742
JAN 28 1825 18.6s 37.25S 176.95E 175km M=4.0
0.8 0.04 0.05 9
Rsd 0.4s 12ph/10stn Dmin 123km Az.gap 167°
Corr. 0.479 19M/17stn Msd 0.2 1↑

92/744
JAN 28 1852 42.5s 39.96S 175.09E 14km M=3.7
0.2 0.01 0.02 3
Rsd 0.3s 26ph/19stn Dmin 22km Az.gap 80°
Corr. 0.271 33M/29stn Msd 0.2 1↑
Felt Wanganui (57) MM4.

92/745
JAN 28 1943 06.0s 38.95S 175.05E 220km M=4.4
0.4 0.02 0.04 3
Rsd 0.2s 26ph/20stn Dmin 32km Az.gap 111°
Corr. 0.198 20M/18stn Msd 0.3 1↑ 1↓

92/753
JAN 29 0511 37.7s 43.00S 172.83E 25km M=3.7
0.0 0.00 0.01 1
Rsd 0.1s 23ph/12stn Dmin 52km Az.gap 140°
Corr. 0.082 26M/20stn Msd 0.2 4↑ 1↓

92/776
JAN 29 2211 12.4s 37.17S 177.89E 5km M=3.8
1.1 0.11 0.12 R
Rsd 0.6s 10ph/7stn Dmin 60km Az.gap 210°
Corr. 0.953 11M/9stn Msd 0.2 1↓

92/785
JAN 30 0334 08.8s 41.00S 172.88E 193km M=3.5
0.4 0.03 0.03 3
Rsd 0.3s 26ph/16stn Dmin 35km Az.gap 135°
Corr. -0.180 9M/9stn Msd 0.3 1↑

92/802
JAN 30 1708 34.0s 36.95S 177.00E 251km M=4.5
0.5 0.04 0.04 3
Rsd 0.2s 17ph/12stn Dmin 116km Az.gap 188°
Corr. 0.750 25M/21stn Msd 0.2 2↑ 1↓

92/804
JAN 30 1810 55.0s 37.08S 177.35E 218km M=3.9
0.5 0.06 0.09 7
Rsd 0.2s 10ph/6stn Dmin 103km Az.gap 268°
Corr. -0.633 12M/12stn Msd 0.3

92/809
JAN 30 2145 36.6s 37.40S 176.81E 169km M=3.9
0.8 0.03 0.03 8
Rsd 0.2s 13ph/11stn Dmin 96km Az.gap 154°
Corr. 0.598 21M/21stn Msd 0.2

92/833
JAN 31 1422 59.7s 36.46S 177.92E 107km M=3.7
0.6 0.07 0.06 9
Rsd 0.2s 6ph/4stn Dmin 131km Az.gap 325°
Corr. -0.633 5M/4stn Msd 0.3

92/841
JAN 31 1818 26.1s 37.71S 179.70E 12km M=4.1
0.3 0.02 0.03 R
Rsd 0.1s 12ph/8stn Dmin 124km Az.gap 305°
Corr. 0.134 26M/22stn Msd 0.2 1↑

92/842
JAN 31 1827 14.2s 37.50S 176.43E 220km M=3.8
0.4 0.04 0.04 3
Rsd 0.2s 10ph/5stn Dmin 103km Az.gap 149°
Corr. 0.691 14M/13stn Msd 0.3 1↑

92/843
JAN 31 1923 60.0s 36.72S 177.16E 235km M=3.8
0.2 0.02 0.02 2
Rsd 0.1s 10ph/6stn Dmin 128km Az.gap 226°
Corr. 0.781 5M/5stn Msd 0.2 1↑

92/849
FEB 01 0421 19.2s 45.22S 167.44E 116km M=4.3
0.4 0.02 0.03 3
Rsd 0.2s 22ph/14stn Dmin 35km Az.gap 173°
Corr. -0.436 25M/18stn Msd 0.2 1↑ 1↓

92/852
FEB 01 0636 21.0s 37.98S 175.95E 171km M=3.8
0.6 0.05 0.08 4
Rsd 0.3s 16ph/10stn Dmin 106km Az.gap 234°
Corr. -0.875 14M/13stn Msd 0.3 1↑ 1↓

92/856
FEB 01 0937 45.2s 40.30S 173.84E 144km M=3.7
0.3 0.02 0.02 3
Rsd 0.3s 25ph/17stn Dmin 56km Az.gap 178°
Corr. -0.121 9M/9stn Msd 0.3 1↑

92/889
FEB 02 1539 56.5s 35.70S 178.60E 228km M=3.7
1.3 0.17 0.26 12
Rsd 0.3s 6ph/4stn Dmin 212km Az.gap 341°
Corr. -0.891 2M/2stn Msd 0.1

92/901
FEB 02 2259 35.6s 37.54S 177.92E 59km M=3.9
0.4 0.02 0.02 5
Rsd 0.2s 10ph/6stn Dmin 34km Az.gap 162°
Corr. -0.254 15M/11stn Msd 0.3 1↑ 3↓

92/907
FEB 03 0825 36.9s 40.38S 174.72E 75km M=3.7
0.2 0.01 0.01 3
Rsd 0.2s 30ph/23stn Dmin 56km Az.gap 76°
Corr. -0.395 13M/10stn Msd 0.2 5↑ 2↓

92/913
FEB 03 1720 26.8s 44.70S 167.86E 76km M=4.1
0.4 0.02 0.02 3
Rsd 0.2s 19ph/13stn Dmin 5km Az.gap 190°
Corr. -0.414 8M/4stn Msd 0.3 2↑ 8↓

92/916
FEB 03 1922 38.9s 35.37S 179.15E 241km M=4.5
0.5 0.07 0.07 11
Rsd 0.1s 10ph/9stn Dmin 259km Az.gap 328°
Corr. -0.402 15M/14stn Msd 0.3

92/918
FEB 03 2036 04.0s 41.63S 173.67E 48km M=4.0
0.1 0.01 0.01 3
Rsd 0.3s 27ph/21stn Dmin 23km Az.gap 80°
Corr. -0.264 17M/12stn Msd 0.1 4↑ 12↓

92/921
FEB 04 0240 37.2s 36.64S 177.93E 141km M=3.9
0.9 0.06 0.06 10
Rsd 0.4s 7ph/4stn Dmin 111km Az.gap 257°
Corr. 0.393 3M/3stn Msd 0.2 1↓

92/926
FEB 04 0612 57.0s 38.38S 176.02E 165km M=4.3
0.6 0.03 0.03 5
Rsd 0.3s 29ph/22stn Dmin 68km Az.gap 75°
Corr. -0.055 26M/22stn Msd 0.3 14↑ 4↓

92/930
FEB 04 1133 41.8s 39.21S 174.74E 211km M=4.3
0.4 0.02 0.04 3
Rsd 0.3s 38ph/30stn Dmin 52km Az.gap 106°
Corr. -0.121 26M/23stn Msd 0.2 16↑ 8↓

92/931
FEB 04 1220 53.2s 36.75S 179.29E 12km M=3.6
0.8 0.05 0.08 R
Rsd 0.2s 7ph/5stn Dmin 129km Az.gap 299°
Corr. -0.428 5M/5stn Msd 0.2

92/937
FEB 04 2139 17.7s 34.88S 178.23E 292km M=4.2
0.4 0.08 0.26 6
Rsd 0.1s 10ph/8stn Dmin 388km Az.gap 350°
Corr. -0.965 7M/7stn Msd 0.1

92/940
FEB 05 0110 13.4s 38.01S 176.13E 176km M=3.9
0.4 0.03 0.02 3
Rsd 0.2s 17ph/15stn Dmin 90km Az.gap 193°
Corr. -0.177 23M/20stn Msd 0.1 2↑ 1↓

92/947
FEB 05 0615 53.3s 39.13S 174.83E 222km M=5.1
0.3 0.02 0.02 3
Rsd 0.3s 49ph/36stn Dmin 44km Az.gap 100°
Corr. -0.083 10M/5stn Msd 0.2 5↑ 3↓

92/954
FEB 05 1235 23.5s 37.69S 179.51E 33km M=3.6
0.8 0.03 0.07 R
Rsd 0.3s 8ph/5stn Dmin 107km Az.gap 305°
Corr. 0.266 6M/4stn Msd 0.2 1↑

92/965
FEB 05 2046 21.3s 38.56S 175.92E 186km M=3.8
0.5 0.02 0.05 4
Rsd 0.2s 19ph/16stn Dmin 74km Az.gap 136°
Corr. -0.496 10M/10stn Msd 0.3

92/969
FEB 06 0221 01.5s 37.90S 176.23E 201km M=3.6
0.7 0.05 0.07 6
Rsd 0.3s 10ph/7stn Dmin 87km Az.gap 253°
Corr. -0.664 9M/9stn Msd 0.1 1↑

92/970
FEB 06 0227 15.4s 41.76S 172.65E 79km M=3.6
0.2 0.01 0.02 3
Rsd 0.3s 18ph/13stn Dmin 21km Az.gap 84°
Corr. -0.176 13M/11stn Msd 0.2 2↑ 2↓

92/977
FEB 06 0543 21.3s 38.52S 175.63E 144km M=4.1
0.9 0.05 0.04 7
Rsd 0.3s 20ph/16stn Dmin 54km Az.gap 202°
Corr. -0.703 25M/22stn Msd 0.3 1↑

92/986
FEB 06 1000 32.8s 39.82S 176.97E 40km M=3.8
0.2 0.01 0.02 1
Rsd 0.2s 36ph/27stn Dmin 19km Az.gap 179°
Corr. -0.633 26M/21stn Msd 0.3 1↓

92/1002
FEB 06 2211 18.9s 38.57S 175.72E 172km M=3.8
0.8 0.04 0.03 7
Rsd 0.3s 17ph/14stn Dmin 51km Az.gap 160°
Corr. -0.146 22M/20stn Msd 0.3 4↑ 1↓

92/1004
FEB 07 0150 08.6s 38.89S 175.57E 209km M=3.6
0.7 0.03 0.06 6
Rsd 0.3s 18ph/13stn Dmin 32km Az.gap 194°
Corr. -0.641 11M/11stn Msd 0.3 1↑

92/1005
FEB 07 0155 15.8s 38.47S 175.74E 136km M=3.5
1.2 0.07 0.08 12
Rsd 0.6s 20ph/14stn Dmin 62km Az.gap 203°
Corr. -0.820 15M/14stn Msd 0.3

92/1015
FEB 07 0512 38.1s 38.99S 175.69E 5km M=4.2
0.1 0.01 0.01 R
Rsd 0.3s 37ph/31stn Dmin 13km Az.gap 41°
Corr. -0.101 42M/36stn Msd 0.2 1↑ 1↓
Felt Omori (41) MM4.

92/1023
FEB 07 0647 25.4s 44.95S 167.39E 12km M=3.6
0.3 0.02 0.02 R
Rsd 0.1s 17ph/13stn Dmin 60km Az.gap 206°
Corr. -0.918 15M/13stn Msd 0.2 1↓
ODZ P is an automatic pick, no records.

92/1044
FEB 07 1926 48.0s 36.89S 177.57E 157km M=4.9
0.4 0.03 0.03 4
Rsd 0.2s 18ph/13stn Dmin 102km Az.gap 226°
Corr. 0.396 12M/5stn Msd 0.2 1↑ 6↓

92/1047
FEB 07 2041 34.9s 37.93S 176.48E 162km M=3.8
0.2 0.04 0.02 2
Rsd 0.2s 14ph/10stn Dmin 67km Az.gap 192°
Corr. -0.676 17M/15stn Msd 0.2 1↑ 1↓

92/1060
FEB 08 0745 22.4s 40.18S 173.57E 176km M=3.7
0.3 0.02 0.02 3
Rsd 0.2s 32ph/20stn Dmin 75km Az.gap 147°
Corr. -0.057 16M/13stn Msd 0.3 5↑ 1↓

92/1136
FEB 09 1257 26.9s 44.84S 167.64E 65km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 23ph/13stn Dmin 29km Az.gap 195°
Corr. -0.625 8M/5stn Msd 0.3 3↑ 6↓

92/1146
FEB 09 1804 58.2s 37.21S 177.64E 76km M=3.7
0.4 0.02 0.02 8
Rsd 0.1s 10ph/6stn Dmin 73km Az.gap 201°
Corr. -0.332 13M/9stn Msd 0.2

92/1157
FEB 10 0552 35.2s 39.21S 174.79E 216km M=3.9
0.5 0.02 0.03 4
Rsd 0.1s 22ph/18stn Dmin 66km Az.gap 169°
Corr. 0.169 14M/12stn Msd 0.2 1↑

92/1166
FEB 10 1325 01.8s 37.54S 176.55E 178km M=3.8
0.3 0.03 0.02 3
Rsd 0.2s 16ph/12stn Dmin 92km Az.gap 133°
Corr. 0.301 17M/17stn Msd 0.2 1↓

92/1178
FEB 10 2317 49.7s 39.42S 176.10E 71km M=4.0
0.1 0.01 0.01 2
Rsd 0.2s 42ph/29stn Dmin 38km Az.gap 81°
Corr. -0.212 20M/15stn Msd 0.2 2↑ 3↓

92/1181
FEB 11 0218 20.0s 35.68S 178.33E 255km M=3.7
0.5 0.07 0.12 4
Rsd 0.1s 7ph/4stn Dmin 306km Az.gap 339°
Corr. -0.801 2M/2stn Msd 0.0

92/1192
FEB 11 1056 35.8s 37.49S 177.30E 102km M=4.3
0.2 0.01 0.01 3
Rsd 0.1s 23ph/19stn Dmin 87km Az.gap 158°
Corr. 0.250 27M/21stn Msd 0.2 3↑ 3↓

92/1202
FEB 11 1847 45.0s 37.75S 179.96E 33km M=3.8
0.4 0.03 0.04 R
Rsd 0.2s 17ph/13stn Dmin 147km Az.gap 297°
Corr. 0.072 11M/11stn Msd 0.2

92/1237
FEB 12 1947 03.9s 40.41S 176.57E 41km M=3.8
0.1 0.01 0.02 2
Rsd 0.2s 31ph/25stn Dmin 34km Az.gap 190°
Corr. -0.570 21M/18stn Msd 0.2 1↑

92/1255
FEB 13 0905 49.5s 38.59S 175.96E 156km M=3.8
0.4 0.02 0.03 3
Rsd 0.3s 24ph/16stn Dmin 73km Az.gap 155°
Corr. -0.432 13M/12stn Msd 0.3 3↑ 1↓

92/1258
FEB 13 1049 37.1s 42.45S 174.82E 33km M=4.3
0.3 0.02 0.02 4
Rsd 0.2s 36ph/21stn Dmin 92km Az.gap 191°
Corr. -0.648 14M/6stn Msd 0.3 15↑ 5↓

92/1267
FEB 13 1724 32.6s 37.45S 177.42E 167km M=3.7
1.1 0.07 0.07 9
Rsd 0.5s 12ph/9stn Dmin 80km Az.gap 221°
Corr. -0.242 8M/8stn Msd 0.1

92/1274
FEB 13 2012 04.8s 37.49S 176.57E 199km M=3.6
0.4 0.02 0.05 3
Rsd 0.2s 9ph/7stn Dmin 98km Az.gap 178°
Corr. 0.734 8M/8stn Msd 0.2 1↑

92/1275
FEB 13 2316 05.6s 40.35S 173.20E 5km M=4.3
0.1 0.01 0.01 R
Rsd 0.2s 30ph/22stn Dmin 77km Az.gap 145°
Corr. -0.447 13M/6stn Msd 0.2 1↓
Felt Marahau Beach (75) MM4.

92/1281
FEB 14 0444 49.6s 37.52S 177.27E 127km M=3.8
0.2 0.02 0.01 2
Rsd 0.1s 17ph/12stn Dmin 84km Az.gap 155°
Corr. 0.221 17M/16stn Msd 0.2 1↓

92/1286
FEB 14 0559 29.3s 45.12S 167.34E 99km M=3.7
0.3 0.01 0.02 2
Rsd 0.2s 20ph/11stn Dmin 42km Az.gap 203°
Corr. -0.498 16M/11stn Msd 0.1 7↑ 2↓

92/1288
FEB 14 1453 17.0s 38.37S 176.27E 127km M=3.7
0.4 0.02 0.02 4
Rsd 0.3s 23ph/17stn Dmin 61km Az.gap 80°
Corr. 0.085 16M/14stn Msd 0.2 2↑ 1↓

92/1312
FEB 15 1451 09.2s 38.00S 176.60E 147km M=3.9
0.3 0.01 0.02 2
Rsd 0.2s 24ph/18stn Dmin 27km Az.gap 104°
Corr. -0.010 26M/20stn Msd 0.2 1↑

92/1328
FEB 16 1100 56.3s 39.62S 174.26E 197km M=4.5
0.3 0.01 0.03 3
Rsd 0.2s 43ph/33stn Dmin 43km Az.gap 92°
Corr. -0.143 10M/4stn Msd 0.2 1↑

92/1335
FEB 16 2011 31.4s 42.19S 172.23E 12km M=3.5
0.1 0.01 0.02 R
Rsd 0.3s 15ph/8stn Dmin 61km Az.gap 100°
Corr. -0.184 20M/14stn Msd 0.2 1↓

92/1341
FEB 17 0159 27.5s 36.93S 176.70E 260km M=4.1
0.3 0.06 0.04 4
Rsd 0.1s 11ph/7stn Dmin 152km Az.gap 259°
Corr. -0.436 20M/19stn Msd 0.2

92/1345
FEB 17 0450 55.8s 35.32S 177.97E 265km M=4.1
1.1 0.10 0.15 10
Rsd 0.2s 13ph/11stn Dmin 255km Az.gap 328°
Corr. -0.738 9M/8stn Msd 0.2

92/1349
FEB 17 0844 48.7s 40.45S 176.26E 45km M=4.4
0.1 0.01 0.01 2
Rsd 0.2s 41ph/35stn Dmin 19km Az.gap 133°
Corr. -0.563 9M/4stn Msd 0.1 4↑ 4↓
Felt from Moawhango (58) to Aramoana (64), max. int. MM4.

92/1352
FEB 17 0949 55.8s 38.08S 177.92E 50km M=3.7
0.2 0.01 0.01 2
Rsd 0.2s 17ph/10stn Dmin 29km Az.gap 86°
Corr. -0.237 15M/11stn Msd 0.3

92/1354
FEB 17 1037 24.9s 38.38S 177.17E 41km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 27ph/21stn Dmin 14km Az.gap 69°
Corr. -0.131 20M/16stn Msd 0.3 1↓

92/1355
FEB 17 1039 38.5s 38.38S 177.15E 38km M=3.5
0.2 0.02 0.02 2
Rsd 0.3s 14ph/12stn Dmin 13km Az.gap 71°
Corr. -0.125 13M/9stn Msd 0.2 1↓

92/1367
FEB 17 1627 24.6s 37.04S 179.09E 12km M=3.5
0.3 0.01 0.04 4
Rsd 0.1s 12ph/8stn Dmin 94km Az.gap 283°
Corr. 0.287 8M/7stn Msd 0.1

92/1369
FEB 17 1827 31.0s 36.36S 177.38E 280km M=4.6
0.5 0.04 0.04 4
Rsd 0.3s 22ph/18stn Dmin 154km Az.gap 256°
Corr. 0.439 19M/13stn Msd 0.2 1↓

92/1374
FEB 18 0006 42.3s 37.39S 176.79E 219km M=4.4
0.3 0.02 0.02 3
Rsd 0.2s 21ph/17stn Dmin 97km Az.gap 153°
Corr. 0.193 28M/24stn Msd 0.2 1↑

92/1377
FEB 18 0544 18.1s 37.58S 175.97E 290km M=3.6
0.3 0.05 0.04 6
Rsd 0.1s 8ph/7stn Dmin 341km Az.gap 329°
Corr. -0.371 4M/4stn Msd 0.1

92/1380
FEB 18 1027 11.3s 39.91S 174.02E 122km M=5.9
0.3 0.01 0.01 3
Rsd 0.2s 39ph/32stn Dmin 64km Az.gap 122°
Corr. -0.143 10M/5stn Msd 0.2 15↑ 10↓
Felt from Uruti (47) to Kahutara (90), max. int. MM4.

92/1384
FEB 18 1242 39.6s 41.35S 172.35E 5km M=3.9
0.2 0.01 0.02 R
Rsd 0.2s 24ph/17stn Dmin 60km Az.gap 148°
Corr. 0.044 11M/5stn Msd 0.1 1↑ 3↓

92/1387
FEB 18 1533 26.2s 36.55S 177.15E 186km M=3.5
2.1 0.17 0.24 20
Rsd 0.6s 6ph/4stn Dmin 155km Az.gap 302°
Corr. -0.801 3M/3stn Msd 0.2

92/1400
FEB 19 0601 56.5s 39.51S 174.56E 153km M=3.6
0.4 0.01 0.04 5
Rsd 0.2s 22ph/17stn Dmin 80km Az.gap 142°
Corr. 0.068 14M/12stn Msd 0.2

92/1409
FEB 19 1927 13.6s 36.71S 177.39E 175km M=3.6
0.4 0.03 0.05 3
Rsd 0.1s 5ph/3stn Dmin 128km Az.gap 313°
Corr. -0.621 3M/3stn Msd 0.2

92/1412
FEB 19 2148 36.8s 39.75S 174.18E 108km M=3.5
0.2 0.01 0.01 3
Rsd 0.2s 33ph/22stn Dmin 51km Az.gap 106°
Corr. -0.140 15M/13stn Msd 0.3 1↑ 1↓

92/1417
FEB 19 2357 47.4s 35.10S 177.32E 193km M=3.8
0.6 0.06 0.13 9
Rsd 0.1s 11ph/9stn Dmin 291km Az.gap 322°
Corr. -0.918 5M/5stn Msd 0.2

92/1418
FEB 20 0145 29.4s 40.75S 174.45E 74km M=4.1
0.1 0.01 0.01 2
Rsd 0.2s 38ph/26stn Dmin 41km Az.gap 78°
Corr. -0.212 8M/3stn Msd 0.1 4↑ 3↓

92/1422
FEB 20 0506 05.5s 39.28S 174.87E 217km M=3.8
0.1 0.01 0.02 1
Rsd 0.0s 16ph/12stn Dmin 58km Az.gap 147°
Corr. -0.081 16M/14stn Msd 0.2

92/1424
FEB 20 0615 46.0s 37.51S 176.31E 246km M=3.7
0.5 0.01 0.02 5
Rsd 0.2s 12ph/9stn Dmin 100km Az.gap 126°
Corr. -0.090 12M/12stn Msd 0.2

92/1436
FEB 20 2013 17.7s 38.14S 176.18E 179km M=3.8
0.6 0.05 0.07 4
Rsd 0.2s 10ph/6stn Dmin 83km Az.gap 211°
Corr. -0.746 17M/16stn Msd 0.2

92/1437
FEB 20 2141 24.5s 37.36S 176.71E 187km M=3.8
0.5 0.06 0.05 4
Rsd 0.2s 9ph/6stn Dmin 106km Az.gap 248°
Corr. -0.295 13M/13stn Msd 0.3

92/1445
FEB 21 0616 20.8s 44.99S 167.48E 85km M=3.8
0.3 0.01 0.02 2
Rsd 0.2s 23ph/16stn Dmin 49km Az.gap 199°
Corr. -0.543 8M/4stn Msd 0.1 7↑ 2↓

92/1450
FEB 21 1024 15.4s 39.86S 173.86E 209km M=3.6
0.6 0.03 0.03 5
Rsd 0.3s 24ph/16stn Dmin 92km Az.gap 192°
Corr. -0.406 10M/9stn Msd 0.2 1↓

92/1464
FEB 22 0215 44.0s 35.60S 178.40E 205km M=4.4
0.4 0.04 0.04 6
Rsd 0.2s 18ph/14stn Dmin 222km Az.gap 301°
Corr. 0.668 24M/20stn Msd 0.2 1↑

92/1465
FEB 22 0221 13.9s 39.29S 177.06E 14km M=4.3
0.1 0.00 0.01 1
Rsd 0.1s 34ph/29stn Dmin 19km Az.gap 146°
Corr. -0.322 14M/7stn Msd 0.3 6↑ 6↓
Felt Patoka (52) MM4.

92/1467
FEB 22 0237 30.7s 35.26S 178.92E 199km M=4.7
0.9 0.08 0.10 16
Rsd 0.4s 18ph/14stn Dmin 265km Az.gap 312°
Corr. 0.645 27M/24stn Msd 0.2 1↑

92/1478
FEB 22 1024 33.1s 40.17S 173.56E 156km M=3.6
0.4 0.02 0.02 3
Rsd 0.2s 28ph/18stn Dmin 77km Az.gap 183°
Corr. -0.214 14M/13stn Msd 0.4 3↑ 1↓

92/1480
FEB 22 1129 44.7s 37.57S 176.48E 181km M=3.9
0.5 0.03 0.04 5
Rsd 0.3s 12ph/10stn Dmin 85km Az.gap 129°
Corr. 0.320 14M/14stn Msd 0.2 1↓

92/1499
FEB 23 1314 51.4s 38.38S 176.14E 5km M=2.6
0.1 0.01 0.01 R
Rsd 0.2s 14ph/10stn Dmin 10km Az.gap 74°
Corr. 0.151 7M/7stn Msd 0.3 1↓
Felt Ngakuru (33).

92/1546
FEB 25 1008 54.0s 37.58S 178.02E 60km M=3.8
0.2 0.01 0.01 3
Rsd 0.1s 10ph/6stn Dmin 25km Az.gap 161°
Corr. -0.316 8M/4stn Msd 0.2 1↑

92/1555
FEB 25 1905 30.9s 38.95S 176.95E 56km M=3.5
0.2 0.01 0.01 2
Rsd 0.2s 25ph/22stn Dmin 13km Az.gap 99°
Corr. -0.025 19M/17stn Msd 0.2 1↑ 4↓

92/1564
FEB 26 0005 35.9s 38.63S 174.68E 568km M=4.4
0.4 0.06 0.09 4
Rsd 0.2s 23ph/18stn Dmin 80km Az.gap 215°
Corr. -0.773 16M/14stn Msd 0.2

92/1569
FEB 26 0221 46.4s 36.24S 178.65E 235km M=3.6
1.7 0.25 0.33 9
Rsd 0.3s 11ph/9stn Dmin 154km Az.gap 339°
Corr. -0.848 7M/7stn Msd 0.1

92/1574
FEB 26 0627 43.8s 37.00S 176.96E 192km M=3.9
0.6 0.04 0.05 6
Rsd 0.2s 7ph/5stn Dmin 114km Az.gap 196°
Corr. 0.213 12M/12stn Msd 0.2

92/1578
FEB 26 0913 04.8s 39.69S 174.05E 246km M=4.1
0.4 0.02 0.03 3
Rsd 0.2s 37ph/24stn Dmin 40km Az.gap 120°
Corr. -0.254 26M/23stn Msd 0.3 3↑ 1↓

92/1582
FEB 26 1213 57.8s 40.02S 176.78E 49km M=3.6
0.1 0.01 0.02 2
Rsd 0.2s 33ph/25stn Dmin 5km Az.gap 171°
Corr. -0.590 20M/19stn Msd 0.4

92/1584
FEB 26 1338 09.9s 36.25S 177.84E 223km M=4.9
0.5 0.04 0.04 5
Rsd 0.3s 21ph/18stn Dmin 156km Az.gap 250°
Corr. 0.574 10M/4stn Msd 0.2 1↑

92/1591
FEB 26 2221 32.1s 38.11S 176.28E 141km M=4.0
0.3 0.01 0.02 3
Rsd 0.3s 20ph/16stn Dmin 65km Az.gap 91°
Corr. 0.076 25M/21stn Msd 0.3 4↑ 2↓

92/1595
FEB 27 0442 30.0s 37.79S 176.74E 154km M=3.7
0.4 0.02 0.03 3
Rsd 0.2s 12ph/9stn Dmin 61km Az.gap 120°
Corr. 0.500 11M/11stn Msd 0.1 2↑ 1↓

92/1602
FEB 27 1126 22.7s 40.45S 176.38E 32km M=4.2
0.1 0.01 0.02 1
Rsd 0.2s 32ph/29stn Dmin 21km Az.gap 169°
Corr. -0.527 14M/6stn Msd 0.2 5↑ 2↓
Felt from Moawhango (58), MM4 to Masterton (66).

92/1606
FEB 27 1817 40.6s 38.63S 175.78E 142km M=3.7
0.3 0.02 0.02 3
Rsd 0.1s 13ph/9stn Dmin 62km Az.gap 209°
Corr. -0.750 14M/13stn Msd 0.3

92/1608
FEB 27 2118 52.4s 40.18S 173.55E 164km M=3.6
0.6 0.07 0.03 6
Rsd 0.3s 15ph/10stn Dmin 76km Az.gap 237°
Corr. 0.126 4M/4stn Msd 0.2 1↑ 1↓

92/1611
FEB 27 2253 11.8s 46.69S 165.62E 33km M=3.9
0.8 0.03 0.09 R
Rsd 0.3s 15ph/11stn Dmin 181km Az.gap 305°
Corr. 0.201 15M/12stn Msd 0.1

92/1617
FEB 28 0202 03.0s 46.70S 165.54E 33km M=3.6
1.0 0.05 0.09 R
Rsd 0.3s 10ph/5stn Dmin 185km Az.gap 303°
Corr. 0.188 9M/6stn Msd 0.1

92/1623
FEB 28 0659 46.4s 39.92S 174.01E 111km M=4.1
0.2 0.01 0.01 3
Rsd 0.2s 40ph/23stn Dmin 73km Az.gap 152°
Corr. -0.313 8M/3stn Msd 0.2 6↑ 6↓

92/1624
FEB 28 0810 59.1s 40.05S 175.13E 17km M=3.7
0.1 0.00 0.01 2
Rsd 0.2s 35ph/25stn Dmin 33km Az.gap 81°
Corr. -0.207 31M/26stn Msd 0.2 5↑ 1↓
Felt Wanganui (57) MM4.

92/1627
FEB 28 1006 01.9s 38.66S 175.44E 167km M=3.8
0.4 0.03 0.05 5
Rsd 0.3s 19ph/13stn Dmin 152km Az.gap 225°
Corr. -0.828 10M/10stn Msd 0.2

92/1632
FEB 28 1457 00.2s 35.24S 179.18E 261km M=3.8
0.4 0.05 0.07 4
Rsd 0.1s 7ph/4stn Dmin 273km Az.gap 346°
Corr. -0.879 2M/2stn Msd 0.1

92/1634
FEB 28 1528 22.1s 38.97S 175.22E 205km M=3.6
0.9 0.07 0.15 12
Rsd 0.4s 16ph/12stn Dmin 39km Az.gap 198°
Corr. -0.891 9M/9stn Msd 0.3

92/1635
FEB 28 1612 32.3s 45.88S 170.57E 12km M=3.5
0.5 0.03 0.04 R
Rsd 0.3s 16ph/12stn Dmin 74km Az.gap 234°
Corr. -0.785 15M/11stn Msd 0.1 1↓
Felt Dunedin area (144,153), maximum intensity MM4.

92/1639
FEB 28 2121 36.4s 35.53S 178.28E 290km M=4.0
0.6 0.10 0.18 5
Rsd 0.2s 7ph/5stn Dmin 229km Az.gap 337°
Corr. -0.867 2M/2stn Msd 0.2

92/1647
FEB 29 0628 07.2s 37.46S 176.33E 202km M=3.5
0.5 0.04 0.05 3
Rsd 0.2s 13ph/10stn Dmin 112km Az.gap 282°
Corr. -0.688 7M/7stn Msd 0.3

92/1681
MAR 01 0314 19.0s 40.15S 174.91E 12km M=3.7
0.1 0.00 0.01 R
Rsd 0.2s 31ph/24stn Dmin 39km Az.gap 108°
Corr. -0.295 33M/27stn Msd 0.2 3↑ 3↓
Felt Wanganui (57) MM4.

92/1705
MAR 01 1650 41.9s 37.57S 177.46E 116km M=3.9
0.2 0.01 0.01 1
Rsd 0.1s 20ph/15stn Dmin 75km Az.gap 195°
Corr. -0.029 22M/20stn Msd 0.2 1↑ 1↓

92/1709
MAR 01 1933 36.8s 43.24S 173.73E 33km M=4.0
0.2 0.02 0.02 R
Rsd 0.3s 25ph/19stn Dmin 93km Az.gap 187°
Corr. -0.617 11M/6stn Msd 0.2 2↑ 1↓

92/1714
MAR 02 0242 19.4s 40.39S 176.46E 19km M=3.9
0.2 0.01 0.02 2
Rsd 0.2s 32ph/27stn Dmin 30km Az.gap 175°
Corr. -0.566 9M/4stn Msd 0.2 5↑ 2↓

92/1727
MAR 02 0905 56.9s 40.43S 176.60E 37km M=5.8
0.1 0.01 0.01 5
Rsd 0.2s 46ph/41stn Dmin 34km Az.gap 177°
Corr. -0.590 10M/4stn Msd 0.2 13↑ 23↓
Felt from central North Island to Nelson, max. int. MM5.

92/1792
MAR 02 1126 11.1s 40.40S 176.53E 40km M=4.0
0.1 0.01 0.02 2
Rsd 0.1s 33ph/29stn Dmin 33km Az.gap 179°
Corr. -0.746 23M/20stn Msd 0.1 2↑ 5↓

92/1825
MAR 02 1648 31.2s 39.04S 177.84E 62km M=3.6
0.2 0.01 0.02 3
Rsd 0.2s 21ph/15stn Dmin 16km Az.gap 147°
Corr. -0.621 22M/20stn Msd 0.1 4↑ 1↓

92/1858
MAR 03 0406 46.4s 44.89S 168.36E 12km M=3.5
0.0 0.01 0.00 R
Rsd 0.1s 22ph/17stn Dmin 42km Az.gap 109°
Corr. 0.471 21M/15stn Msd 0.2 1↓
Felt Earnslaw Stn (121) MM4.

92/1860
MAR 03 0411 38.1s 40.42S 176.54E 38km M=3.7
0.1 0.01 0.02 1
Rsd 0.2s 31ph/27stn Dmin 7km Az.gap 187°
Corr. -0.471 24M/19stn Msd 0.2 2↑ 6↓

92/1861
MAR 03 0431 02.7s 38.08S 176.25E 151km M=3.7
0.3 0.03 0.03 2
Rsd 0.1s 15ph/10stn Dmin 62km Az.gap 142°
Corr. -0.676 19M/19stn Msd 0.3 1↑

92/1870
MAR 03 0658 48.5s 42.04S 175.10E 34km M=3.7
0.1 0.01 0.01 1
Rsd 0.1s 37ph/23stn Dmin 70km Az.gap 185°
Corr. -0.590 8M/3stn Msd 0.1 3↑ 12↓

92/1871
MAR 03 0703 11.9s 36.27S 178.03E 198km M=4.9
0.5 0.03 0.03 5
Rsd 0.3s 35ph/24stn Dmin 149km Az.gap 276°
Corr. 0.479 30M/24stn Msd 0.3 6↑ 1↓

92/1887
MAR 03 0924 46.8s 38.14S 176.26E 3km M=2.8
0.1 0.00 0.00 1
Rsd 0.1s 11ph/7stn Dmin 7km Az.gap 117°
Corr. 0.432 6M/6stn Msd 0.2 1↑
Felt Rotorua (33) MM4 and Lake Tarawera (33).

92/1900
MAR 03 1559 06.9s 38.31S 176.15E 170km M=4.3
0.4 0.02 0.02 3
Rsd 0.3s 31ph/23stn Dmin 12km Az.gap 56°
Corr. 0.092 29M/24stn Msd 0.2 10↑ 1↓

92/1912
MAR 03 2333 52.4s 39.49S 175.64E 72km M=3.8
0.2 0.01 0.01 3
Rsd 0.3s 37ph/27stn Dmin 25km Az.gap 50°
Corr. -0.115 26M/21stn Msd 0.3 1↑

92/1913
MAR 03 2339 52.3s 37.39S 176.24E 174km M=3.6
0.6 0.04 0.09 6
Rsd 0.2s 9ph/7stn Dmin 123km Az.gap 305°
Corr. -0.578 3M/3stn Msd 0.3 1↓

92/1929
MAR 04 0603 02.9s 39.60S 177.83E 45km M=4.7
0.2 0.01 0.02 4
Rsd 0.2s 30ph/27stn Dmin 46km Az.gap 208°
Corr. -0.467 12M/5stn Msd 0.3 4↑ 5↓
Felt Hawkes Bay (53,60), maximum intensity MM4.

92/1938
MAR 04 0658 56.9s 37.77S 177.55E 51km M=3.6
0.2 0.02 0.01 5
Rsd 0.2s 18ph/10stn Dmin 67km Az.gap 130°
Corr. -0.041 14M/9stn Msd 0.2 1↑ 4↓

92/1962
MAR 04 1709 28.9s 40.42S 176.50E 39km M=3.6
0.1 0.01 0.01 1
Rsd 0.2s 33ph/26stn Dmin 4km Az.gap 180°
Corr. -0.648 22M/17stn Msd 0.2 3↑ 2↓

92/1983
MAR 05 0044 22.9s 38.34S 176.07E 156km M=3.5
1.1 0.06 0.04 7
Rsd 0.2s 11ph/10stn Dmin 92km Az.gap 212°
Corr. -0.144 8M/8stn Msd 0.2 1↑

92/2012
MAR 05 1142 24.0s 36.36S 178.01E 224km M=3.6
2.0 0.73 1.77 31
Rsd 0.5s 9ph/6stn Dmin 225km Az.gap 353°
Corr. -0.984 3M/3stn Msd 0.2

92/2034
MAR 05 1827 38.8s 45.38S 167.04E 69km M=3.6
0.3 0.01 0.02 2
Rsd 0.1s 18ph/11stn Dmin 13km Az.gap 249°
Corr. -0.174 19M/14stn Msd 0.2 1↓
ODZ P is an automatic pick, no records.

92/2045
MAR 05 2236 49.1s 45.16S 166.83E 12km M=4.7
0.3 0.01 0.03 R
Rsd 0.1s 19ph/15stn Dmin 43km Az.gap 253°
Corr. 0.160 11M/6stn Msd 0.2 1↓
ODZ P is an automatic pick, no records.

92/2046
MAR 05 2335 09.4s 45.19S 166.85E 12km M=4.5
0.3 0.01 0.03 R
Rsd 0.1s 18ph/15stn Dmin 39km Az.gap 251°
Corr. 0.008 9M/5stn Msd 0.2 1↓
ODZ P is an automatic pick, no records.

92/2049
MAR 06 0256 12.1s 37.65S 176.91E 137km M=3.6
0.2 0.01 0.02 2
Rsd 0.2s 13ph/10stn Dmin 70km Az.gap 159°
Corr. 0.551 14M/14stn Msd 0.2 1↓

92/2064
MAR 06 0822 06.6s 36.61S 177.62E 221km M=3.5
0.6 0.08 0.09 5
Rsd 0.2s 11ph/8stn Dmin 172km Az.gap 319°
Corr. -0.773 4M/4stn Msd 0.2

92/2077
MAR 06 1157 53.7s 35.39S 179.02E 211km M=4.5
0.5 0.07 0.06 12
Rsd 0.1s 10ph/6stn Dmin 254km Az.gap 327°
Corr. -0.527 19M/14stn Msd 0.4

92/2091
MAR 06 1636 21.1s 36.56S 177.35E 209km M=3.7
0.1 0.02 0.02 2
Rsd 0.0s 8ph/4stn Dmin 143km Az.gap 305°
Corr. -0.252 5M/4stn Msd 0.3 1↓

92/2125
MAR 07 1046 44.0s 37.95S 176.14E 170km M=3.8
0.3 0.03 0.02 3
Rsd 0.2s 16ph/14stn Dmin 92km Az.gap 197°
Corr. -0.516 24M/23stn Msd 0.2 5↑ 1↓

92/2131
MAR 07 1428 08.2s 39.29S 176.12E 73km M=4.9
0.2 0.01 0.01 2
Rsd 0.3s 56ph/42stn Dmin 44km Az.gap 36°
Corr. 0.068 12M/5stn Msd 0.2 13↑ 6↓
KUZ and ODZ Ps are automatic picks, no records.

92/2160
MAR 08 0501 31.2s 38.67S 175.49E 213km M=4.0
0.7 0.02 0.03 6
Rsd 0.2s 19ph/14stn Dmin 52km Az.gap 138°
Corr. -0.117 23M/21stn Msd 0.3 1↑

92/2171
MAR 08 1108 06.4s 38.61S 178.57E 27km M=3.7
0.5 0.02 0.04 2
Rsd 0.2s 10ph/8stn Dmin 47km Az.gap 231°
Corr. -0.738 24M/20stn Msd 0.2 1↑

92/2172
MAR 08 1158 00.4s 44.31S 167.65E 12km M=3.7
0.3 0.01 0.03 R
Rsd 0.2s 13ph/10stn Dmin 47km Az.gap 214°
Corr. -0.049 17M/13stn Msd 0.2 1↑

92/2178
MAR 08 1701 40.2s 38.46S 175.93E 152km M=3.6
0.7 0.04 0.03 5
Rsd 0.2s 16ph/13stn Dmin 85km Az.gap 199°
Corr. -0.656 10M/8stn Msd 0.2 1↑

92/2185
MAR 08 1957 29.4s 36.80S 178.17E 81km M=3.7
0.5 0.03 0.04 8
Rsd 0.2s 7ph/4stn Dmin 89km Az.gap 261°
Corr. 0.110 5M/3stn Msd 0.2 1↓

92/2186
MAR 08 2055 55.8s 47.60S 165.20E 33km M=3.5
0.6 0.04 0.05 R
Rsd 0.1s 14ph/10stn Dmin 237km Az.gap 322°
Corr. -0.057 13M/13stn Msd 0.1

92/2194
MAR 09 0338 32.2s 37.47S 177.37E 149km M=3.6
1.3 0.10 0.11 10
Rsd 0.7s 10ph/5stn Dmin 84km Az.gap 252°
Corr. -0.613 5M/4stn Msd 0.2

92/2223
MAR 09 2330 09.6s 37.86S 175.94E 149km M=3.6
0.3 0.02 0.03 3
Rsd 0.1s 17ph/11stn Dmin 112km Az.gap 243°
Corr. -0.574 8M/8stn Msd 0.2 1↓

92/2238
MAR 10 0703 51.4s 38.49S 175.76E 176km M=4.3
0.6 0.03 0.02 5
Rsd 0.3s 27ph/23stn Dmin 70km Az.gap 80°
Corr. -0.149 9M/5stn Msd 0.2 2↑ 5↓

92/2243
MAR 10 0904 10.3s 36.15S 177.66E 232km M=3.9
1.2 0.12 0.16 11
Rsd 0.3s 10ph/7stn Dmin 170km Az.gap 321°
Corr. -0.773 4M/4stn Msd 0.2 1↓

92/2261
MAR 10 2310 56.6s 39.88S 174.52E 131km M=4.2
0.2 0.01 0.01 3
Rsd 0.2s 43ph/33stn Dmin 37km Az.gap 83°
Corr. -0.171 8M/4stn Msd 0.3 11↑ 9↓

92/2266
MAR 11 0136 03.6s 37.47S 177.19E 135km M=3.6
0.2 0.02 0.01 2
Rsd 0.1s 7ph/4stn Dmin 88km Az.gap 274°
Corr. -0.504 4M/4stn Msd 0.1

92/2269
MAR 11 0246 32.7s 35.90S 175.30E 33km M=3.8
0.2 0.02 0.02 R
Rsd 0.1s 5ph/3stn Dmin 86km Az.gap 251°
Corr. 0.945 4M/2stn Msd 0.2

92/2279
MAR 11 0834 27.7s 37.25S 177.14E 5km M=3.7
0.3 0.03 0.03 R
Rsd 0.4s 9ph/6stn Dmin 110km Az.gap 178°
Corr. 0.582 13M/9stn Msd 0.2

92/2282
MAR 11 1113 04.6s 36.70S 177.60E 179km M=4.1
0.9 0.04 0.04 8
Rsd 0.3s 20ph/18stn Dmin 117km Az.gap 240°
Corr. 0.539 19M/17stn Msd 0.1 1↑ 1↓

92/2284
MAR 11 1305 31.9s 38.25S 176.04E 157km M=3.6
0.4 0.03 0.03 3
Rsd 0.1s 14ph/9stn Dmin 94km Az.gap 219°
Corr. -0.543 18M/17stn Msd 0.3 1↑ 3↓

92/2293
MAR 11 2131 23.1s 39.92S 176.17E 68km M=4.2
0.2 0.01 0.01 3
Rsd 0.3s 41ph/32stn Dmin 29km Az.gap 58°
Corr. -0.106 8M/3stn Msd 0.1 6↑ 1↓
Felt Dannevirke (63).

92/2301
MAR 12 0034 44.3s 38.15S 176.24E 5km M=3.0
0.1 0.01 0.01 R
Rsd 0.2s 7ph/6stn Dmin 5km Az.gap 160°
Corr. 0.420 6M/6stn Msd 0.3 1↓
Felt Rotorua (33) MM4.

92/2305
MAR 12 0150 06.3s 38.72S 175.65E 119km M=3.7
0.6 0.02 0.02 5
Rsd 0.3s 31ph/22stn Dmin 51km Az.gap 136°
Corr. -0.218 22M/20stn Msd 0.2 3↑ 1↓

92/2308
MAR 12 0418 49.3s 37.17S 176.92E 228km M=4.2
0.3 0.02 0.02 3
Rsd 0.1s 14ph/11stn Dmin 117km Az.gap 177°
Corr. 0.547 18M/18stn Msd 0.2

92/2312
MAR 12 0525 25.4s 40.16S 178.89E 33km M=3.5
1.1 0.05 0.10 R
Rsd 0.4s 12ph/6stn Dmin 186km Az.gap 283°
Corr. -0.625 5M/4stn Msd 0.2

92/2328
MAR 12 1811 35.3s 37.31S 176.54E 249km M=3.9
0.9 0.10 0.10 5
Rsd 0.3s 13ph/11stn Dmin 117km Az.gap 280°
Corr. -0.516 12M/12stn Msd 0.3

92/2335
MAR 12 2116 06.2s 37.11S 176.36E 243km M=4.0
0.4 0.05 0.07 3
Rsd 0.1s 14ph/11stn Dmin 144km Az.gap 281°
Corr. -0.402 13M/13stn Msd 0.3

92/2349
MAR 13 0630 59.6s 40.26S 176.49E 57km M=5.0
0.1 0.01 0.01 1
Rsd 0.2s 51ph/43stn Dmin 11km Az.gap 138°
Corr. -0.723 10M/5stn Msd 0.1 11↑ 8↓
Felt Hawkes Bay (52,60) and Palmerston North (62) MM4, also Wellington (68).

92/2354
MAR 13 0834 44.5s 41.98S 171.69E 8km M=3.7
0.3 0.01 0.02 3
Rsd 0.3s 20ph/9stn Dmin 28km Az.gap 155°
Corr. -0.439 23M/18stn Msd 0.2 1↑ 3↓
Felt Te Wharau River (86).

92/2359
MAR 13 1145 09.1s 37.62S 179.08E 24km M=3.7
0.2 0.01 0.01 1
Rsd 0.1s 13ph/7stn Dmin 68km Az.gap 288°
Corr. -0.602 10M/8stn Msd 0.2 1↑ 2↓

92/2363
MAR 13 1640 08.4s 36.76S 178.24E 69km M=3.9
0.4 0.02 0.02 4
Rsd 0.2s 13ph/9stn Dmin 94km Az.gap 267°
Corr. 0.672 13M/9stn Msd 0.3

92/2384
MAR 14 0441 40.6s 45.20S 166.89E 12km M=3.8
0.5 0.01 0.04 R
Rsd 0.1s 19ph/15stn Dmin 36km Az.gap 255°
Corr. -0.205 24M/18stn Msd 0.1 1↓

92/2393
MAR 14 0818 53.3s 37.95S 176.48E 154km M=3.6
0.4 0.02 0.03 4
Rsd 0.2s 11ph/9stn Dmin 66km Az.gap 146°
Corr. 0.404 6M/5stn Msd 0.3

92/2399
MAR 14 1113 01.3s 39.09S 175.17E 204km M=3.7
0.8 0.04 0.06 7
Rsd 0.2s 15ph/11stn Dmin 81km Az.gap 193°
Corr. -0.656 11M/11stn Msd 0.2 1↑

92/2409
MAR 14 1654 22.5s 39.70S 174.22E 175km M=3.8
0.5 0.01 0.03 4
Rsd 0.3s 32ph/22stn Dmin 47km Az.gap 100°
Corr. -0.092 22M/19stn Msd 0.2 4↑ 1↓

92/2429
MAR 15 1055 09.8s 38.54S 175.84E 151km M=4.1
0.7 0.03 0.03 6
Rsd 0.3s 27ph/19stn Dmin 69km Az.gap 153°
Corr. -0.332 27M/23stn Msd 0.2 6↑ 1↓

92/2439
MAR 15 1640 36.3s 40.52S 173.33E 167km M=3.5
0.2 0.01 0.01 2
Rsd 0.2s 37ph/24stn Dmin 59km Az.gap 166°
Corr. -0.227 12M/11stn Msd 0.2 3↑ 2↓

92/2443
MAR 15 2317 33.5s 38.82S 176.10E 94km M=3.7
0.3 0.01 0.01 4
Rsd 0.2s 19ph/11stn Dmin 59km Az.gap 87°
Corr. -0.238 10M/8stn Msd 0.2 1↓

92/2455
MAR 16 1434 38.3s 37.86S 176.36E 157km M=4.0
0.3 0.02 0.03 3
Rsd 0.2s 15ph/11stn Dmin 67km Az.gap 106°
Corr. 0.234 11M/10stn Msd 0.3 1↓

92/2459
MAR 16 2321 31.6s 35.22S 178.97E 168km M=6.1
0.8 0.07 0.06 14
Rsd 0.3s 17ph/15stn Dmin 271km Az.gap 293°
Corr. 0.707 10M/5stn Msd 0.4 1↓

92/2463
MAR 17 0641 52.8s 40.38S 173.47E 179km M=3.8
0.4 0.03 0.02 3
Rsd 0.2s 18ph/10stn Dmin 61km Az.gap 222°
Corr. -0.176 9M/7stn Msd 0.2 1↑

92/2464
MAR 17 0703 39.7s 37.73S 177.57E 51km M=3.8
0.2 0.01 0.01 3
Rsd 0.1s 13ph/7stn Dmin 66km Az.gap 134°
Corr. -0.008 12M/8stn Msd 0.2 1↑ 1↓

92/2476
MAR 17 1717 41.1s 40.47S 176.35E 32km M=4.2
0.1 0.01 0.02 1
Rsd 0.2s 40ph/33stn Dmin 11km Az.gap 122°
Corr. -0.613 12M/6stn Msd 0.3 9↑ 2↓
Felt Mt Vernon (60), Palmerston North (62) and Dannevirke (63).

92/2483
MAR 17 2327 41.9s 40.88S 175.42E 42km M=3.6
0.1 0.01 0.01 2
Rsd 0.3s 32ph/23stn Dmin 29km Az.gap 86°
Corr. -0.373 15M/12stn Msd 0.2 5↑ 4↓

92/2485
MAR 18 0030 06.5s 38.01S 176.38E 162km M=3.8
0.3 0.01 0.03 3
Rsd 0.2s 16ph/10stn Dmin 70km Az.gap 99°
Corr. -0.079 10M/7stn Msd 0.2 1↑

92/2486
MAR 18 0033 29.4s 42.07S 172.98E 80km M=3.5
0.2 0.01 0.01 2
Rsd 0.3s 30ph/17stn Dmin 35km Az.gap 74°
Corr. -0.307 15M/12stn Msd 0.2 1↑ 2↓

92/2490
MAR 18 0312 31.9s 38.30S 176.36E 6km M=2.8
0.1 0.01 0.01 2
Rsd 0.2s 12ph/9stn Dmin 13km Az.gap 110°
Corr. 0.073 5M/5stn Msd 0.3 1↑
Felt Rotomahana (33) MM3.

92/2492
MAR 18 0327 51.9s 40.42S 176.50E 42km M=4.4
0.1 0.01 0.01 1
Rsd 0.2s 43ph/37stn Dmin 5km Az.gap 167°
Corr. -0.566 8M/4stn Msd 0.1 3↑ 5↓
Felt southern Hawkes Bay (60), Palmerston North (62) and Dannevirke (63).

92/2501
MAR 18 0532 40.1s 39.20S 177.41E 29km M=3.6
0.2 0.01 0.02 2
Rsd 0.3s 21ph/18stn Dmin 24km Az.gap 120°
Corr. -0.213 21M/18stn Msd 0.2 2↑ 1↓

92/2509
MAR 18 1120 04.6s 38.91S 178.28E 28km M=3.5
0.2 0.01 0.02 1
Rsd 0.1s 16ph/12stn Dmin 39km Az.gap 217°
Corr. -0.801 21M/16stn Msd 0.2 1↑

92/2511
MAR 18 1224 22.7s 36.50S 178.58E 102km M=4.4
0.7 0.06 0.05 12
Rsd 0.3s 14ph/7stn Dmin 124km Az.gap 286°
Corr. 0.475 13M/7stn Msd 0.3 1↑ 1↓

92/2513
MAR 18 1324 24.6s 37.80S 176.76E 151km M=3.9
0.4 0.02 0.02 3
Rsd 0.3s 25ph/17stn Dmin 53km Az.gap 120°
Corr. 0.094 19M/17stn Msd 0.2 3↑ 2↓

92/2516
MAR 18 1502 32.0s 37.88S 175.84E 191km M=3.6
0.6 0.06 0.14 10
Rsd 0.3s 10ph/6stn Dmin 119km Az.gap 272°
Corr. -0.820 2M/2stn Msd 0.5

92/2534
MAR 19 0350 17.5s 38.92S 175.20E 209km M=3.6
0.5 0.02 0.05 5
Rsd 0.1s 17ph/9stn Dmin 100km Az.gap 201°
Corr. -0.766 13M/12stn Msd 0.3 1↑

92/2566
MAR 20 0748 26.1s 38.27S 176.20E 154km M=3.7
0.6 0.05 0.06 5
Rsd 0.4s 12ph/8stn Dmin 80km Az.gap 211°
Corr. -0.707 5M/5stn Msd 0.1 1↑ 1↓

92/2568
MAR 20 0828 15.1s 37.11S 177.46E 141km M=3.9
0.4 0.03 0.02 5
Rsd 0.2s 7ph/5stn Dmin 92km Az.gap 202°
Corr. 0.328 11M/9stn Msd 0.2 1↓

92/2569
MAR 20 0857 09.8s 37.50S 179.98E 33km M=3.9
0.4 0.05 0.04 R
Rsd 0.1s 13ph/10stn Dmin 149km Az.gap 295°
Corr. -0.291 15M/11stn Msd 0.2

92/2582
MAR 21 0220 59.7s 36.35S 177.59E 248km M=4.0
1.0 0.07 0.10 8
Rsd 0.3s 5ph/4stn Dmin 173km Az.gap 276°
Corr. 0.539 2M/2stn Msd 0.1

92/2583
MAR 21 0239 04.8s 37.54S 179.61E 12km M=3.7
0.7 0.04 0.05 R
Rsd 0.3s 8ph/5stn Dmin 116km Az.gap 306°
Corr. 0.118 8M/4stn Msd 0.2

92/2589
MAR 21 0710 19.2s 39.39S 179.68E 33km M=4.2
0.6 0.02 0.05 R
Rsd 0.3s 25ph/19stn Dmin 157km Az.gap 260°
Corr. 0.052 35M/30stn Msd 0.2 1↑

92/2593
MAR 21 1002 36.4s 37.61S 179.76E 12km M=4.2
0.3 0.02 0.02 R
Rsd 0.1s 14ph/12stn Dmin 129km Az.gap 295°
Corr. -0.027 28M/22stn Msd 0.1 1↓

92/2595
MAR 21 1013 22.8s 37.51S 179.78E 33km M=3.6
0.5 0.03 0.05 R
Rsd 0.2s 7ph/5stn Dmin 131km Az.gap 309°
Corr. -0.149 6M/4stn Msd 0.2

92/2603
MAR 21 1534 01.7s 37.54S 179.89E 33km M=3.6
0.7 0.04 0.06 R
Rsd 0.2s 11ph/8stn Dmin 140km Az.gap 299°
Corr. -0.155 7M/6stn Msd 0.1

92/2604
MAR 21 1612 26.4s 37.72S 178.01E 76km M=3.6
0.2 0.01 0.01 2
Rsd 0.1s 11ph/5stn Dmin 29km Az.gap 125°
Corr. -0.400 5M/4stn Msd 0.1 1↑

92/2617
MAR 22 0140 20.6s 41.25S 177.95E 33km M=5.1
0.4 0.01 0.04 R
Rsd 0.1s 23ph/21stn Dmin 152km Az.gap 225°
Corr. -0.727 24M/12stn Msd 0.2 4↑ 3↓

92/2635
MAR 22 1530 55.3s 35.74S 178.20E 238km M=4.0
0.4 0.03 0.03 4
Rsd 0.1s 10ph/8stn Dmin 207km Az.gap 295°
Corr. 0.109 6M/6stn Msd 0.2 1↓

92/2671
MAR 23 1506 50.0s 42.19S 173.43E 59km M=4.1
0.1 0.01 0.01 2
Rsd 0.2s 34ph/22stn Dmin 27km Az.gap 96°
Corr. -0.344 15M/12stn Msd 0.2 1↑

92/2687
MAR 24 0525 24.6s 38.62S 175.99E 124km M=3.7
1.0 0.04 0.07 9
Rsd 0.3s 20ph/13stn Dmin 96km Az.gap 237°
Corr. -0.793 11M/10stn Msd 0.4 1↑

92/2693
MAR 24 0918 43.7s 37.75S 175.94E 213km M=3.6
0.4 0.03 0.05 3
Rsd 0.1s 15ph/11stn Dmin 118km Az.gap 271°
Corr. -0.789 10M/10stn Msd 0.3 1↑

92/2698
MAR 24 1125 28.0s 35.35S 179.02E 231km M=3.8
0.8 0.11 0.11 18
Rsd 0.3s 7ph/4stn Dmin 258km Az.gap 312°
Corr. 0.727 3M/3stn Msd 0.0

92/2703
MAR 24 1340 26.3s 37.37S 177.26E 130km M=3.9
0.0 0.00 0.00 0
Rsd 0.0s 8ph/5stn Dmin 95km Az.gap 170°
Corr. 0.063 5M/4stn Msd 0.3 1↑

92/2710
MAR 24 1511 23.8s 42.08S 172.95E 79km M=3.7
0.2 0.01 0.01 2
Rsd 0.2s 35ph/21stn Dmin 35km Az.gap 65°
Corr. -0.107 17M/12stn Msd 0.1 3↑ 2↓

92/2718
MAR 24 2106 16.5s 37.74S 176.61E 152km M=4.2
0.2 0.01 0.01 2
Rsd 0.2s 21ph/17stn Dmin 72km Az.gap 121°
Corr. 0.019 26M/23stn Msd 0.3 8↑ 1↓

92/2724
MAR 25 0347 09.1s 37.01S 176.93E 213km M=4.1
0.3 0.03 0.03 3
Rsd 0.1s 10ph/6stn Dmin 112km Az.gap 194°
Corr. 0.668 12M/11stn Msd 0.3 1↓

92/2740
MAR 25 1238 35.6s 37.86S 178.58E 5km M=3.5
0.5 0.01 0.04 R
Rsd 0.4s 11ph/6stn Dmin 37km Az.gap 249°
Corr. -0.268 11M/7stn Msd 0.1 1↑

92/2753
MAR 25 1649 26.1s 35.38S 178.40E 12km M=4.4
0.8 0.04 0.05 R
Rsd 0.2s 12ph/10stn Dmin 247km Az.gap 283°
Corr. 0.465 12M/10stn Msd 0.4

92/2754
MAR 25 1727 31.9s 37.25S 177.21E 12km M=5.7
0.2 0.02 0.01 R
Rsd 0.2s 27ph/21stn Dmin 105km Az.gap 173°
Corr. 0.406 20M/10stn Msd 0.3 1↑
Felt Bay of Plenty to Cape Runaway, max. int. MM6 at Waihi (21).

92/2756
MAR 25 1730 23.7s 37.24S 177.13E 12km M=3.9
0.3 0.02 0.02 R
Rsd 0.4s 13ph/8stn Dmin 111km Az.gap 172°
Corr. 0.422 19M/13stn Msd 1.0

92/2757
MAR 25 1731 49.0s 37.25S 177.17E 12km M=3.8
0.3 0.03 0.02 R
Rsd 0.4s 10ph/6stn Dmin 107km Az.gap 179°
Corr. 0.381 9M/5stn Msd 0.2

92/2761
MAR 25 1736 31.6s 37.33S 176.99E 12km M=3.6
0.4 0.03 0.04 R
Rsd 0.3s 7ph/5stn Dmin 104km Az.gap 188°
Corr. 0.594 7M/4stn Msd 0.3

92/2768
MAR 25 1752 32.2s 37.24S 177.18E 5km M=3.9
0.3 0.02 0.02 R
Rsd 0.3s 10ph/8stn Dmin 107km Az.gap 180°
Corr. 0.408 15M/10stn Msd 0.2

92/2769
MAR 25 1753 15.9s 37.33S 177.14E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.1s 7ph/6stn Dmin 103km Az.gap 165°
Corr. 0.190 12M/8stn Msd 0.2

92/2780
MAR 25 1817 47.6s 37.22S 177.12E 12km M=3.7
0.4 0.04 0.03 R
Rsd 0.5s 11ph/8stn Dmin 113km Az.gap 173°
Corr. 0.512 15M/10stn Msd 0.2

92/2792
MAR 25 1853 46.8s 35.39S 178.31E 33km M=4.5
1.2 0.07 0.09 R
Rsd 0.5s 12ph/9stn Dmin 246km Az.gap 281°
Corr. 0.445 10M/8stn Msd 0.3

92/2793
MAR 25 1900 19.4s 38.66S 175.82E 136km M=3.7
0.8 0.03 0.03 8
Rsd 0.3s 21ph/15stn Dmin 64km Az.gap 148°
Corr. -0.013 19M/17stn Msd 0.2 1↑

92/2807
MAR 25 2029 25.8s 37.23S 177.09E 5km M=3.7
0.4 0.04 0.03 R
Rsd 0.5s 12ph/8stn Dmin 114km Az.gap 172°
Corr. 0.520 13M/9stn Msd 0.2

92/2810
MAR 25 2109 23.6s 37.29S 177.10E 5km M=3.5
0.3 0.03 0.02 R
Rsd 0.4s 8ph/6stn Dmin 108km Az.gap 172°
Corr. 0.412 5M/5stn Msd 0.2

92/2811
MAR 25 2109 40.3s 37.48S 177.14E 5km M=3.5
0.3 0.03 0.03 R
Rsd 0.4s 6ph/5stn Dmin 86km Az.gap 156°
Corr. 0.486 7M/5stn Msd 0.3

92/2815
MAR 25 2127 52.0s 38.09S 175.76E 5km M=3.6
0.3 0.02 0.03 R
Rsd 0.1s 6ph/3stn Dmin 120km Az.gap 252°
Corr. 0.891 2M/2stn Msd 0.3

92/2819
MAR 25 2151 07.5s 37.26S 177.08E 12km M=4.0
0.3 0.02 0.02 R
Rsd 0.3s 16ph/11stn Dmin 111km Az.gap 170°
Corr. 0.465 12M/10stn Msd 0.1 1↓

92/2820
MAR 25 2154 47.9s 37.22S 177.13E 12km M=4.1
0.1 0.01 0.01 R
Rsd 0.1s 17ph/11stn Dmin 111km Az.gap 173°
Corr. 0.566 20M/15stn Msd 0.3 1↑

92/2836
MAR 26 0049 20.1s 37.22S 177.12E 5km M=3.9
0.3 0.03 0.02 R
Rsd 0.4s 14ph/9stn Dmin 113km Az.gap 179°
Corr. 0.447 15M/9stn Msd 0.2

92/2837
MAR 26 0053 00.7s 37.30S 177.08E 5km M=3.6
0.2 0.02 0.01 R
Rsd 0.2s 13ph/6stn Dmin 106km Az.gap 170°
Corr. 0.563 10M/7stn Msd 0.3

92/2838
MAR 26 0053 40.6s 37.04S 177.21E 175km M=3.8
0.1 0.01 0.01 2
Rsd 0.1s 10ph/5stn Dmin 115km Az.gap 283°
Corr. -0.248 5M/5stn Msd 0.3

92/2850
MAR 26 0251 17.2s 37.23S 177.10E 12km M=4.1
0.3 0.02 0.02 R
Rsd 0.3s 14ph/8stn Dmin 114km Az.gap 178°
Corr. 0.570 16M/10stn Msd 0.3

92/2851
MAR 26 0252 54.2s 37.22S 177.12E 12km M=3.9
0.2 0.02 0.02 R
Rsd 0.2s 14ph/8stn Dmin 113km Az.gap 173°
Corr. 0.582 16M/10stn Msd 0.2

92/2858
MAR 26 0422 12.2s 37.28S 177.05E 5km M=3.8
0.3 0.03 0.03 R
Rsd 0.4s 14ph/9stn Dmin 108km Az.gap 172°
Corr. 0.539 14M/9stn Msd 0.2

92/2860
MAR 26 0502 24.8s 37.23S 177.12E 5km M=3.8
0.3 0.03 0.03 R
Rsd 0.3s 10ph/8stn Dmin 112km Az.gap 179°
Corr. 0.730 14M/8stn Msd 0.3 1↑

92/2864
MAR 26 0633 12.9s 37.25S 177.08E 5km M=4.2
0.4 0.03 0.03 R
Rsd 0.6s 15ph/10stn Dmin 112km Az.gap 170°
Corr. 0.479 16M/10stn Msd 0.2

92/2867
MAR 26 0716 57.9s 37.23S 177.12E 12km M=3.9
0.2 0.02 0.02 R
Rsd 0.3s 12ph/9stn Dmin 112km Az.gap 173°
Corr. 0.688 16M/10stn Msd 0.2

92/2884
MAR 26 1105 41.6s 37.25S 177.12E 5km M=3.9
0.2 0.01 0.01 R
Rsd 0.2s 20ph/11stn Dmin 111km Az.gap 171°
Corr. 0.508 16M/10stn Msd 0.2

92/2892
MAR 26 1249 50.9s 37.22S 177.13E 12km M=4.1
0.2 0.03 0.02 R
Rsd 0.3s 13ph/10stn Dmin 112km Az.gap 173°
Corr. 0.641 18M/12stn Msd 0.3

92/2896
MAR 26 1301 56.2s 37.23S 177.12E 12km M=4.0
0.3 0.02 0.03 R
Rsd 0.3s 15ph/11stn Dmin 112km Az.gap 173°
Corr. 0.570 12M/10stn Msd 0.1

92/2897
MAR 26 1302 25.4s 37.13S 177.33E 12km M=3.8
0.9 0.08 0.07 R
Rsd 0.6s 8ph/6stn Dmin 101km Az.gap 195°
Corr. 0.609 14M/8stn Msd 0.3

92/2899
MAR 26 1308 22.0s 37.24S 177.14E 12km M=3.5
0.4 0.04 0.03 R
Rsd 0.4s 9ph/7stn Dmin 110km Az.gap 178°
Corr. 0.422 9M/8stn Msd 0.2

92/2904
MAR 26 1322 29.1s 44.97S 167.46E 67km M=3.5
0.3 0.01 0.02 2
Rsd 0.1s 14ph/7stn Dmin 50km Az.gap 201°
Corr. -0.754 13M/9stn Msd 0.2 1↑ 1↓
No readings from Clyde Network.

92/2905
MAR 26 1325 38.7s 37.29S 177.07E 12km M=4.6
0.3 0.03 0.02 R
Rsd 0.3s 17ph/15stn Dmin 108km Az.gap 167°
Corr. 0.637 8M/4stn Msd 0.2 1↑

92/2906
MAR 26 1330 08.8s 37.06S 177.08E 5km M=4.0
0.8 0.06 0.02 R
Rsd 0.3s 11ph/7stn Dmin 124km Az.gap 244°
Corr. 0.114 10M/8stn Msd 0.3

92/2907
MAR 26 1337 47.2s 37.18S 177.08E 5km M=3.6
0.4 0.03 0.02 R
Rsd 0.3s 13ph/9stn Dmin 118km Az.gap 183°
Corr. 0.012 12M/9stn Msd 0.1

92/2909
MAR 26 1407 06.6s 37.26S 177.10E 12km M=3.7
0.3 0.03 0.02 R
Rsd 0.4s 16ph/11stn Dmin 111km Az.gap 170°
Corr. 0.311 16M/10stn Msd 0.2 1↓

92/2914
MAR 26 1417 11.7s 35.69S 178.58E 272km M=3.8
0.5 0.09 0.17 7
Rsd 0.2s 10ph/8stn Dmin 214km Az.gap 339°
Corr. -0.875 6M/6stn Msd 0.1

92/2929
MAR 26 1742 20.5s 35.36S 178.67E 33km M=3.6
0.6 0.03 0.04 R
Rsd 0.2s 7ph/3stn Dmin 307km Az.gap 324°
Corr. 0.172 3M/3stn Msd 0.2

92/2931
MAR 26 1909 20.9s 35.39S 178.43E 12km M=4.1
1.2 0.07 0.08 R
Rsd 0.5s 10ph/5stn Dmin 287km Az.gap 305°
Corr. 0.309 6M/6stn Msd 0.4

92/2938
MAR 26 2013 36.5s 36.60S 177.52E 197km M=4.2
0.3 0.02 0.02 3
Rsd 0.1s 10ph/7stn Dmin 131km Az.gap 244°
Corr. 0.357 26M/21stn Msd 0.3 1↓

92/2942
MAR 26 2138 52.5s 37.29S 177.08E 12km M=3.6
0.4 0.03 0.04 R
Rsd 0.4s 11ph/8stn Dmin 108km Az.gap 167°
Corr. 0.605 13M/9stn Msd 0.2

92/2944
MAR 26 2159 13.1s 37.29S 177.16E 12km M=3.6
0.3 0.03 0.03 R
Rsd 0.4s 8ph/6stn Dmin 107km Az.gap 174°
Corr. 0.590 10M/7stn Msd 0.5

92/2946
MAR 26 2315 48.9s 37.20S 177.23E 12km M=4.2
0.3 0.04 0.03 R
Rsd 0.4s 11ph/9stn Dmin 105km Az.gap 177°
Corr. 0.625 16M/10stn Msd 0.2

92/2948
MAR 26 2328 24.8s 37.24S 177.21E 12km M=3.9
0.2 0.03 0.02 R
Rsd 0.3s 10ph/8stn Dmin 105km Az.gap 173°
Corr. 0.621 15M/9stn Msd 0.2

92/2949
MAR 26 2331 26.0s 37.29S 177.11E 12km M=3.6
1.1 0.09 0.06 R
Rsd 0.5s 8ph/7stn Dmin 108km Az.gap 224°
Corr. -0.385 13M/9stn Msd 0.2

92/2958
MAR 27 0241 06.1s 37.21S 177.21E 12km M=4.6
0.3 0.02 0.02 R
Rsd 0.3s 11ph/8stn Dmin 106km Az.gap 176°
Corr. 0.609 8M/4stn Msd 0.2

92/2961
MAR 27 0334 35.9s 37.26S 177.17E 5km M=3.7
0.2 0.02 0.02 R
Rsd 0.3s 11ph/7stn Dmin 107km Az.gap 178°
Corr. 0.365 8M/4stn Msd 0.2

92/2964
MAR 27 0357 02.3s 37.24S 177.13E 5km M=4.7
0.2 0.02 0.01 R
Rsd 0.2s 23ph/16stn Dmin 111km Az.gap 172°
Corr. 0.539 8M/4stn Msd 0.2 1↑ 1↓
Felt Waihi (21) MM4.

92/2965
MAR 27 0434 10.5s 37.77S 178.01E 71km M=4.1
0.3 0.02 0.02 2
Rsd 0.2s 18ph/12stn Dmin 32km Az.gap 114°
Corr. 0.175 22M/19stn Msd 0.2 2↑ 2↓

92/2968
MAR 27 0825 44.5s 37.27S 177.08E 5km M=3.7
0.2 0.02 0.02 R
Rsd 0.3s 16ph/10stn Dmin 110km Az.gap 169°
Corr. 0.594 15M/9stn Msd 0.2 2↑ 1↓

92/2970
MAR 27 0904 59.2s 37.26S 177.19E 12km M=3.5
0.4 0.03 0.03 R
Rsd 0.4s 7ph/5stn Dmin 105km Az.gap 178°
Corr. 0.621 14M/10stn Msd 0.2

92/2971
MAR 27 0907 58.5s 38.61S 175.57E 266km M=3.5
0.7 0.04 0.05 5
Rsd 0.2s 11ph/9stn Dmin 61km Az.gap 224°
Corr. -0.467 5M/5stn Msd 0.2 1↓

92/2981
MAR 27 1048 04.5s 38.60S 175.85E 156km M=3.8
0.4 0.02 0.02 3
Rsd 0.2s 21ph/15stn Dmin 68km Az.gap 147°
Corr. -0.410 17M/15stn Msd 0.2 1↑ 5↓

92/2983
MAR 27 1400 29.9s 39.30S 175.15E 12km M=3.6
0.2 0.01 0.02 R
Rsd 0.3s 25ph/19stn Dmin 25km Az.gap 109°
Corr. -0.400 28M/24stn Msd 0.3 3↑ 2↓

92/2985
MAR 27 1525 22.8s 35.34S 178.76E 33km M=3.8
4.1 0.21 0.31 R
Rsd 0.4s 4ph/3stn Dmin 315km Az.gap 325°
Corr. 0.730 3M/3stn Msd 0.5
Poorly recorded.

92/2995
MAR 27 2137 26.8s 37.30S 177.06E 12km M=4.5
0.4 0.04 0.03 R
Rsd 0.6s 10ph/9stn Dmin 107km Az.gap 166°
Corr. 0.531 8M/4stn Msd 0.3 1↓

92/3004
MAR 28 0059 41.9s 35.49S 177.80E 256km M=4.2
0.4 0.06 0.09 5
Rsd 0.1s 12ph/10stn Dmin 313km Az.gap 335°
Corr. -0.910 5M/4stn Msd 0.5 1↓

92/3010
MAR 28 0408 58.0s 37.27S 177.16E 12km M=3.5
0.1 0.01 0.01 R
Rsd 0.1s 7ph/5stn Dmin 108km Az.gap 176°
Corr. 0.465 9M/5stn Msd 0.2 1↑

92/3012
MAR 28 0627 31.4s 37.27S 177.12E 12km M=4.0
0.4 0.04 0.03 R
Rsd 0.5s 12ph/9stn Dmin 110km Az.gap 170°
Corr. 0.543 16M/10stn Msd 0.3

92/3017
MAR 28 0835 16.7s 39.29S 175.14E 16km M=3.5
0.2 0.01 0.02 3
Rsd 0.3s 24ph/18stn Dmin 25km Az.gap 109°
Corr. 0.289 19M/16stn Msd 0.3 2↑ 1↓

92/3021
MAR 28 0948 31.3s 35.97S 178.14E 238km M=3.7
1.0 0.11 0.17 9
Rsd 0.2s 7ph/4stn Dmin 181km Az.gap 332°
Corr. -0.891 4M/4stn Msd 0.2

92/3043
MAR 29 0927 39.7s 38.24S 176.19E 158km M=3.7
0.4 0.03 0.02 3
Rsd 0.3s 13ph/10stn Dmin 80km Az.gap 174°
Corr. -0.453 10M/9stn Msd 0.2 1↑

92/3044
MAR 29 1110 00.6s 40.20S 173.55E 168km M=3.6
0.5 0.02 0.02 5
Rsd 0.3s 23ph/17stn Dmin 74km Az.gap 159°
Corr. -0.275 9M/9stn Msd 0.2 1↑

92/3053
MAR 29 1846 26.6s 37.79S 176.07E 236km M=4.2
0.4 0.02 0.04 3
Rsd 0.2s 14ph/12stn Dmin 106km Az.gap 124°
Corr. 0.480 21M/19stn Msd 0.2

92/3055
MAR 29 1929 34.4s 37.24S 177.22E 12km M=4.0
0.5 0.01 0.01 4
Rsd 0.2s 9ph/5stn Dmin 104km Az.gap 181°
Corr. 0.447 13M/7stn Msd 0.1
Felt Tauranga (26).

92/3067
MAR 30 0235 25.8s 36.52S 177.07E 210km M=3.9
0.8 0.08 0.09 5
Rsd 0.2s 11ph/7stn Dmin 163km Az.gap 294°
Corr. -0.816 5M/5stn Msd 0.3 1↓

92/3073
MAR 30 0557 56.4s 36.45S 177.20E 12km M=4.4
1.1 0.10 0.04 R
Rsd 0.4s 8ph/6stn Dmin 136km Az.gap 247°
Corr. 0.742 13M/7stn Msd 0.2

92/3075
MAR 30 0702 52.4s 43.05S 171.23E 5km M=5.8
0.2 0.02 0.01 R
Rsd 0.2s 14ph/11stn Dmin 40km Az.gap 113°
Corr. -0.202 29M/15stn Msd 0.2 1↓
Felt throughout much of the South Island, maximum intensity MM5 at Lake Kaniere (92) and Erewhon (106).

92/3076
MAR 30 0705 38.5s 43.03S 171.22E 5km M=4.1
0.2 0.02 0.02 R
Rsd 0.3s 13ph/11stn Dmin 39km Az.gap 117°
Corr. -0.535 15M/15stn Msd 0.3
Felt Lake Kaniere (92).

92/3085
MAR 30 0710 05.6s 43.07S 171.22E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.2s 12ph/10stn Dmin 39km Az.gap 110°
Corr. -0.457 10M/8stn Msd 0.3

92/3086
MAR 30 0710 27.2s 43.03S 171.21E 5km M=3.6
0.4 R R R
Rsd 0.7s 4ph/3stn Dmin 39km Az.gap 171°
Corr. 0.000 6M/4stn Msd 0.1

92/3098
MAR 30 0720 13.4s 43.06S 171.21E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.1s 13ph/12stn Dmin 38km Az.gap 111°
Corr. -0.430 19M/17stn Msd 0.2 1↓

92/3139
MAR 30 0800 07.1s 43.06S 171.21E 5km M=3.9
0.1 0.01 0.01 R
Rsd 0.1s 12ph/11stn Dmin 38km Az.gap 111°
Corr. -0.369 9M/5stn Msd 0.2 1↓

92/3205
MAR 30 0950 16.7s 38.25S 175.84E 259km M=4.4
0.6 0.04 0.05 5
Rsd 0.3s 27ph/20stn Dmin 47km Az.gap 81°
Corr. 0.086 27M/21stn Msd 0.2 1↑

92/3278
MAR 30 1555 43.5s 37.84S 176.83E 127km M=3.7
0.2 0.03 0.02 2
Rsd 0.2s 12ph/8stn Dmin 53km Az.gap 217°
Corr. -0.719 12M/9stn Msd 0.2 1↑

92/3316
MAR 30 2110 05.4s 40.97S 174.31E 62km M=4.3
0.1 0.01 0.01 2
Rsd 0.2s 38ph/31stn Dmin 27km Az.gap 51°
Corr. -0.305 8M/4stn Msd 0.4 5↑ 1↓
Felt Kapiti coast (65) to Queen Charlotte Sound (78).

92/3338
MAR 30 2343 34.9s 43.06S 171.20E 5km M=3.7
0.1 0.00 0.00 R
Rsd 0.1s 16ph/10stn Dmin 38km Az.gap 111°
Corr. -0.182 8M/5stn Msd 0.1 1↓

92/3355
MAR 31 0244 29.3s 43.03S 171.21E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.1s 15ph/10stn Dmin 39km Az.gap 117°
Corr. -0.297 27M/22stn Msd 0.3 2↑ 1↓

92/3383
MAR 31 0823 58.9s 34.83S 177.82E 33km M=3.9
2.7 0.17 0.35 R
Rsd 0.3s 5ph/3stn Dmin 311km Az.gap 343°
Corr. -0.898 1M/1stn Msd N.D.

92/3407
MAR 31 1305 48.3s 39.68S 174.36E 110km M=4.0
0.2 0.01 0.02 3
Rsd 0.2s 40ph/29stn Dmin 51km Az.gap 86°
Corr. -0.228 27M/22stn Msd 0.3 4↑ 2↓

92/3416
MAR 31 1418 03.5s 37.23S 177.15E 12km M=3.7
0.2 0.02 0.02 R
Rsd 0.2s 13ph/9stn Dmin 110km Az.gap 179°
Corr. 0.719 17M/12stn Msd 0.2

92/3455
APR 01 0154 07.4s 36.66S 176.35E 176km M=3.8
0.4 0.06 0.11 17
Rsd 0.1s 11ph/5stn Dmin 231km Az.gap 293°
Corr. -0.895 3M/3stn Msd 0.4

92/3466
APR 01 0545 35.8s 45.05S 167.44E 84km M=4.2
0.4 0.02 0.03 2
Rsd 0.1s 22ph/16stn Dmin 51km Az.gap 197°
Corr. -0.621 9M/5stn Msd 0.2 1↓

92/3467
APR 01 0555 26.4s 43.03S 171.23E 5km M=4.0
0.1 0.01 0.01 R
Rsd 0.1s 17ph/11stn Dmin 40km Az.gap 117°
Corr. -0.371 11M/6stn Msd 0.2 1↓

92/3470
APR 01 0833 06.8s 37.30S 177.10E 5km M=3.0
0.2 0.01 0.01 R
Rsd 0.1s 11ph/5stn Dmin 106km Az.gap 172°
Corr. 0.490 5M/5stn Msd 0.2
Felt Waihi (21) MM4.

92/3480
APR 01 1224 44.7s 40.26S 173.53E 168km M=4.0
0.3 0.01 0.01 2
Rsd 0.2s 36ph/25stn Dmin 69km Az.gap 146°
Corr. -0.178 21M/19stn Msd 0.2 1↑

92/3483
APR 01 1410 45.3s 37.23S 177.16E 5km M=3.5
0.2 0.02 0.02 R
Rsd 0.3s 9ph/6stn Dmin 109km Az.gap 180°
Corr. 0.586 12M/9stn Msd 0.2 1↑

92/3485
APR 01 1417 40.1s 36.20S 179.35W 12km M=3.5
0.2 0.01 0.02 R
Rsd 0.1s 6ph/4stn Dmin 261km Az.gap 324°
Corr. -0.465 3M/3stn Msd 0.0

92/3488
APR 01 1538 15.8s 40.52S 173.42E 157km M=4.3
0.2 0.01 0.01 2
Rsd 0.2s 41ph/29stn Dmin 53km Az.gap 134°
Corr. -0.211 25M/20stn Msd 0.2 2↑ 4↓

92/3499
APR 01 2050 51.4s 36.72S 177.29E 228km M=3.6
0.9 0.10 0.15 11
Rsd 0.3s 9ph/4stn Dmin 171km Az.gap 312°
Corr. -0.809 2M/2stn Msd 0.0

92/3506
APR 01 2257 40.4s 43.02S 171.20E 5km M=5.2
0.1 0.01 0.01 R
Rsd 0.1s 11ph/10stn Dmin 38km Az.gap 118°
Corr. -0.410 27M/14stn Msd 0.2 4↑ 1↓
Felt from Westport (79) to Hokitika (91), max. int. MM4.

92/3507
APR 01 2259 10.0s 43.04S 171.20E 5km M=3.9
0.1 0.01 0.01 R
Rsd 0.1s 6ph/5stn Dmin 38km Az.gap 136°
Corr. -0.426 2M/2stn Msd 0.1

92/3508
APR 01 2259 15.3s 43.03S 171.21E 5km M=4.2
0.2 R R R
Rsd 0.2s 2ph/2stn Dmin 39km Az.gap 243°
Corr. 0.000 3M/3stn Msd 0.2

92/3509
APR 01 2259 33.7s 43.03S 171.20E 5km M=4.3
0.1 0.01 0.01 R
Rsd 0.2s 9ph/8stn Dmin 38km Az.gap 116°
Corr. -0.547 15M/9stn Msd 0.2

92/3516
APR 01 2309 50.5s 43.04S 171.20E 5km M=3.9
0.1 0.01 0.01 R
Rsd 0.1s 11ph/10stn Dmin 38km Az.gap 115°
Corr. -0.457 24M/19stn Msd 0.2 1↑ 2↓

92/3519
APR 01 2315 09.6s 43.03S 171.20E 5km M=3.9
0.2 0.01 0.01 3
Rsd 0.1s 12ph/11stn Dmin 38km Az.gap 116°
Corr. -0.289 9M/5stn Msd 0.1 2↑ 1↓

92/3520
APR 01 2317 38.1s 43.02S 171.20E 5km M=3.5
0.1 0.01 0.01 R
Rsd 0.2s 12ph/11stn Dmin 39km Az.gap 118°
Corr. -0.340 19M/17stn Msd 0.3 2↑ 1↓

92/3526
APR 01 2332 10.4s 43.05S 171.19E 5km M=3.5
0.1 0.01 0.01 R
Rsd 0.1s 12ph/11stn Dmin 37km Az.gap 115°
Corr. -0.215 18M/16stn Msd 0.2 1↓

92/3530
APR 01 2354 38.1s 43.04S 171.21E 5km M=4.3
0.1 0.01 0.01 R
Rsd 0.1s 22ph/12stn Dmin 39km Az.gap 116°
Corr. -0.342 17M/9stn Msd 0.2 6↑ 3↓

92/3549
APR 02 0405 15.3s 38.93S 176.95E 56km M=4.1
0.2 0.01 0.02 2
Rsd 0.3s 42ph/33stn Dmin 12km Az.gap 114°
Corr. 0.238 24M/18stn Msd 0.2 2↑ 3↓

92/3564
APR 02 0738 09.9s 40.35S 174.07E 96km M=3.6
0.3 0.01 0.02 5
Rsd 0.2s 33ph/26stn Dmin 52km Az.gap 107°
Corr. -0.004 16M/13stn Msd 0.2 2↑ 2↓

92/3572
APR 02 1002 51.2s 37.24S 177.22E 5km M=3.9
0.2 0.02 0.02 R
Rsd 0.3s 13ph/7stn Dmin 32km Az.gap 181°
Corr. 0.551 12M/6stn Msd 0.2

92/3591
APR 02 1823 27.2s 38.43S 176.63E 157km M=3.5
1.4 0.03 0.11 16
Rsd 0.5s 7ph/5stn Dmin 46km Az.gap 134°
Corr. -0.195 2M/2stn Msd 0.3

92/3592
APR 02 1823 36.0s 37.20S 177.20E 5km M=3.8
0.3 0.02 0.02 R
Rsd 0.3s 14ph/8stn Dmin 37km Az.gap 185°
Corr. 0.441 14M/9stn Msd 0.2

92/3607
APR 03 0132 08.2s 37.11S 177.31E 5km M=3.6
0.5 0.03 0.04 R
Rsd 0.4s 9ph/5stn Dmin 103km Az.gap 197°
Corr. 0.504 10M/5stn Msd 0.1

92/3614
APR 03 0412 56.7s 37.25S 177.22E 5km M=3.6
0.2 0.01 0.01 R
Rsd 0.2s 10ph/6stn Dmin 31km Az.gap 180°
Corr. 0.391 10M/5stn Msd 0.2

92/3640
APR 03 1438 12.9s 37.29S 177.11E 12km M=3.8
0.2 0.02 0.02 R
Rsd 0.2s 12ph/7stn Dmin 108km Az.gap 173°
Corr. 0.516 13M/7stn Msd 0.2

92/3646
APR 03 1535 01.0s 37.31S 177.04E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.2s 8ph/5stn Dmin 105km Az.gap 168°
Corr. 0.471 7M/5stn Msd 0.2

92/3647
APR 03 1538 29.4s 37.50S 177.00E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.3s 11ph/5stn Dmin 85km Az.gap 150°
Corr. 0.566 11M/5stn Msd 0.3

92/3649
APR 03 1547 15.7s 37.37S 177.10E 5km M=3.5
0.6 0.05 0.04 R
Rsd 0.5s 13ph/9stn Dmin 98km Az.gap 165°
Corr. 0.414 10M/8stn Msd 0.2

92/3651
APR 03 1552 46.6s 37.42S 177.09E 5km M=3.7
0.2 0.01 0.01 R
Rsd 0.2s 13ph/7stn Dmin 93km Az.gap 160°
Corr. 0.467 13M/8stn Msd 0.2

92/3652
APR 03 1553 25.2s 37.52S 177.09E 25km M=4.1
0.4 0.02 0.02 4
Rsd 0.3s 16ph/10stn Dmin 83km Az.gap 150°
Corr. -0.194 13M/8stn Msd 0.3

92/3653
APR 03 1555 22.2s 37.43S 176.93E 12km M=3.7
0.3 0.02 0.01 R
Rsd 0.1s 5ph/3stn Dmin 94km Az.gap 312°
Corr. -0.142 1M/1stn Msd N.D.

92/3659
APR 03 1606 52.9s 37.42S 177.04E 12km M=4.0
0.5 0.04 0.04 R
Rsd 0.5s 11ph/9stn Dmin 93km Az.gap 158°
Corr. 0.348 16M/10stn Msd 0.2

92/3660
APR 03 1607 04.7s 37.48S 177.07E 12km M=4.0
0.8 0.07 0.10 R
Rsd 0.7s 7ph/3stn Dmin 87km Az.gap 179°
Corr. 0.738 8M/4stn Msd 0.3
Poor solution, in coda of another event.

92/3698
APR 03 1840 33.2s 37.47S 177.03E 5km M=4.1
0.1 0.01 0.01 R
Rsd 0.1s 12ph/10stn Dmin 88km Az.gap 154°
Corr. 0.498 17M/11stn Msd 0.2 1↑

92/3699
APR 03 1842 44.1s 37.48S 176.96E 5km M=3.6
0.3 0.03 0.02 R
Rsd 0.3s 11ph/6stn Dmin 88km Az.gap 151°
Corr. 0.484 12M/6stn Msd 0.2

92/3702
APR 03 1904 06.9s 37.49S 176.97E 5km M=3.6
0.6 0.05 0.03 R
Rsd 0.4s 7ph/5stn Dmin 86km Az.gap 206°
Corr. -0.198 11M/7stn Msd 0.2

92/3730
APR 04 0042 55.1s 39.59S 174.49E 202km M=3.5
0.4 0.02 0.03 3
Rsd 0.1s 14ph/9stn Dmin 44km Az.gap 188°
Corr. -0.020 8M/7stn Msd 0.2

92/3741
APR 04 0814 34.4s 38.29S 176.23E 110km M=3.6
0.5 0.03 0.02 5
Rsd 0.1s 13ph/10stn Dmin 70km Az.gap 229°
Corr. -0.316 12M/12stn Msd 0.2 1↑

92/3744
APR 04 0933 58.9s 40.82S 175.96E 27km M=3.7
0.1 0.01 0.02 2
Rsd 0.3s 24ph/20stn Dmin 35km Az.gap 147°
Corr. -0.590 29M/26stn Msd 0.2 1↑

92/3754
APR 04 1311 07.2s 36.51S 177.57E 119km M=4.2
0.8 0.06 0.05 13
Rsd 0.2s 7ph/4stn Dmin 137km Az.gap 252°
Corr. 0.605 5M/3stn Msd 0.4

92/3756
APR 04 1334 25.5s 36.50S 177.44E 141km M=4.2
0.1 0.01 0.00 1
Rsd 0.0s 5ph/3stn Dmin 145km Az.gap 259°
Corr. 0.738 5M/3stn Msd 0.4

92/3761
APR 04 1446 01.6s 38.50S 175.92E 162km M=3.9
0.4 0.02 0.02 3
Rsd 0.2s 30ph/19stn Dmin 75km Az.gap 70°
Corr. -0.303 19M/17stn Msd 0.2 1↑ 3↓

92/3766
APR 04 1717 20.4s 38.79S 175.98E 127km M=4.1
0.5 0.02 0.02 4
Rsd 0.2s 31ph/19stn Dmin 54km Az.gap 64°
Corr. 0.009 24M/20stn Msd 0.3 2↑ 6↓

92/3767
APR 04 1852 56.9s 37.45S 177.03E 12km M=3.7
0.2 0.02 0.02 R
Rsd 0.2s 11ph/8stn Dmin 91km Az.gap 156°
Corr. 0.613 15M/10stn Msd 0.2

92/3780
APR 05 0215 05.0s 40.46S 176.69E 24km M=3.7
0.2 0.01 0.02 1
Rsd 0.2s 29ph/21stn Dmin 18km Az.gap 191°
Corr. -0.648 25M/23stn Msd 0.2 1↑

92/3806
APR 05 1039 10.5s 36.28S 177.31E 217km M=3.7
0.3 0.07 0.03 7
Rsd 0.1s 5ph/3stn Dmin 216km Az.gap 333°
Corr. -0.155 3M/3stn Msd 0.2

92/3817
APR 05 1522 25.4s 38.36S 176.86E 68km M=3.9
0.1 0.01 0.01 2
Rsd 0.2s 25ph/20stn Dmin 24km Az.gap 87°
Corr. 0.013 25M/19stn Msd 0.2 1↑ 3↓

92/3818
APR 05 1549 23.5s 37.34S 176.55E 326km M=4.8
0.4 0.05 0.05 4
Rsd 0.2s 17ph/14stn Dmin 98km Az.gap 150°
Corr. 0.205 8M/4stn Msd 0.2 1↑

92/3839
APR 06 0220 11.4s 35.98S 178.20E 241km M=4.1
0.8 0.12 0.12 8
Rsd 0.1s 10ph/7stn Dmin 233km Az.gap 325°
Corr. -0.703 14M/13stn Msd 0.3

92/3845
APR 06 0503 47.9s 47.41S 165.21E 33km M=3.8
0.5 0.04 0.04 R
Rsd 0.2s 15ph/11stn Dmin 228km Az.gap 318°
Corr. 0.180 17M/13stn Msd 0.2

92/3846
APR 06 0537 02.2s 40.24S 173.52E 163km M=4.4
0.3 0.01 0.01 2
Rsd 0.2s 45ph/28stn Dmin 72km Az.gap 148°
Corr. -0.099 27M/22stn Msd 0.2 4↑ 9↓

92/3850
APR 06 0723 09.4s 39.51S 175.63E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.3s 36ph/30stn Dmin 27km Az.gap 50°
Corr. 0.359 32M/29stn Msd 0.3 3↑ 1↓

92/3856
APR 06 0749 30.5s 39.45S 174.41E 248km M=3.6
0.4 0.02 0.05 4
Rsd 0.2s 22ph/17stn Dmin 59km Az.gap 200°
Corr. -0.283 12M/10stn Msd 0.2

92/3859
APR 06 1003 14.9s 38.18S 175.57E 229km M=3.8
0.5 0.03 0.06 5
Rsd 0.2s 18ph/14stn Dmin 135km Az.gap 233°
Corr. -0.684 11M/10stn Msd 0.1

92/3939
APR 08 0446 19.3s 35.93S 177.60E 5km M=4.0
0.2 0.01 0.02 R
Rsd 0.1s 7ph/4stn Dmin 196km Az.gap 323°
Corr. 0.069 5M/4stn Msd 0.2

92/3952
APR 08 1459 35.7s 38.30S 175.83E 174km M=4.1
0.6 0.02 0.02 6
Rsd 0.2s 18ph/17stn Dmin 87km Az.gap 102°
Corr. 0.233 22M/19stn Msd 0.2 1↑

92/3955
APR 08 1729 18.3s 36.68S 176.09E 33km M=4.8
0.6 0.04 0.02 R
Rsd 0.1s 11ph/9stn Dmin 247km Az.gap 292°
Corr. 0.090 5M/3stn Msd 0.7 1↓

92/3958
APR 08 2220 30.7s 41.26S 174.31E 60km M=3.8
0.0 0.01 0.00 1
Rsd 0.1s 37ph/24stn Dmin 7km Az.gap 103°
Corr. -0.400 14M/10stn Msd 0.5 1↑

92/3963
APR 09 0242 22.2s 37.25S 176.58E 230km M=4.0
0.6 0.05 0.09 9
Rsd 0.2s 13ph/10stn Dmin 157km Az.gap 261°
Corr. -0.770 12M/10stn Msd 0.3

92/3970
APR 09 0721 30.1s 37.28S 177.95E 154km M=3.7
0.6 0.03 0.37 11
Rsd 0.1s 6ph/3stn Dmin 47km Az.gap 322°
Corr. -0.891 4M/3stn Msd 0.4

92/3980
APR 09 1252 08.2s 36.16S 179.90W 12km M=3.6
0.4 0.01 0.04 R
Rsd 0.1s 6ph/4stn Dmin 226km Az.gap 314°
Corr. 0.001 5M/4stn Msd 0.5

92/3982
APR 09 1341 46.6s 38.28S 175.79E 140km M=3.6
0.8 0.10 0.13 20
Rsd 0.4s 17ph/14stn Dmin 218km Az.gap 244°
Corr. -0.887 9M/8stn Msd 0.5 1↑

92/3987
APR 09 1540 14.8s 47.67S 165.67E 33km M=3.6
3.2 0.23 0.36 R
Rsd 0.7s 4ph/3stn Dmin 248km Az.gap 329°
Corr. -0.164 2M/2stn Msd 0.3

92/4007
APR 10 0238 57.3s 47.35S 165.28E 33km M=3.7
0.6 0.04 0.05 R
Rsd 0.2s 11ph/8stn Dmin 221km Az.gap 317°
Corr. 0.314 14M/11stn Msd 0.3

92/4008
APR 10 0335 47.2s 37.86S 176.91E 149km M=4.8
0.3 0.02 0.01 2
Rsd 0.2s 32ph/22stn Dmin 44km Az.gap 75°
Corr. 0.171 27M/21stn Msd 0.3 10↑ 4↓

92/4011
APR 10 0524 10.1s 36.47S 178.19E 166km M=4.2
0.3 0.02 0.03 3
Rsd 0.1s 11ph/9stn Dmin 126km Az.gap 274°
Corr. 0.676 14M/12stn Msd 0.3 1↑ 1↓

92/4023
APR 10 0959 32.3s 37.69S 177.66E 77km M=3.7
0.2 0.01 0.02 3
Rsd 0.1s 17ph/14stn Dmin 58km Az.gap 139°
Corr. 0.008 20M/18stn Msd 0.3 1↑ 1↓

92/4038
APR 10 1858 31.0s 40.42S 176.76E 23km M=4.0
0.2 0.01 0.02 2
Rsd 0.2s 28ph/23stn Dmin 30km Az.gap 191°
Corr. -0.602 38M/33stn Msd 0.2 2↑ 4↓
Felt Aramoana (64) MM4.

92/4044
APR 10 2129 37.6s 37.38S 177.08E 5km M=3.9
0.4 0.05 0.05 R
Rsd 0.4s 7ph/6stn Dmin 20km Az.gap 163°
Corr. 0.785 10M/6stn Msd 0.2 1↑

92/4048
APR 11 0202 34.3s 35.57S 179.30E 33km M=4.4
0.7 0.04 0.04 R
Rsd 0.2s 11ph/8stn Dmin 243km Az.gap 311°
Corr. 0.516 23M/19stn Msd 0.3

92/4050
APR 11 0406 22.8s 37.03S 176.71E 278km M=4.2
0.8 0.03 0.03 7
Rsd 0.2s 11ph/10stn Dmin 93km Az.gap 184°
Corr. 0.258 16M/15stn Msd 0.3

92/4052
APR 11 0448 31.4s 36.90S 177.00E 172km M=3.7
0.8 0.10 0.20 23
Rsd 0.3s 8ph/4stn Dmin 139km Az.gap 288°
Corr. -0.902 3M/3stn Msd 0.2

92/4053
APR 11 0526 54.5s 38.56S 175.83E 159km M=3.7
0.5 0.03 0.03 4
Rsd 0.1s 13ph/10stn Dmin 71km Az.gap 209°
Corr. -0.256 10M/10stn Msd 0.2 1↑

92/4054
APR 11 0530 55.1s 42.07S 172.87E 73km M=4.1
0.2 0.01 0.02 2
Rsd 0.2s 32ph/20stn Dmin 34km Az.gap 61°
Corr. -0.159 17M/12stn Msd 0.3 3↑ 2↓

92/4063
APR 11 1228 25.9s 37.38S 179.04E 71km M=3.7
1.5 0.07 0.15 11
Rsd 0.5s 10ph/7stn Dmin 70km Az.gap 290°
Corr. 0.365 6M/4stn Msd 0.2

92/4064
APR 11 1339 51.6s 42.05S 174.14E 15km M=3.6
0.2 0.01 0.02 2
Rsd 0.2s 26ph/20stn Dmin 34km Az.gap 154°
Corr. -0.680 10M/5stn Msd 0.1 1↑ 1↓

92/4078
APR 11 2305 40.2s 41.47S 174.46E 43km M=3.4
0.1 0.01 0.01 1
Rsd 0.2s 35ph/21stn Dmin 32km Az.gap 124°
Corr. -0.416 13M/10stn Msd 0.2 4↑ 5↓
Felt Fighting Bay (78) MM4.

92/4081
APR 12 0407 31.9s 37.29S 177.14E 118km M=3.9
0.7 0.03 0.02 8
Rsd 0.2s 12ph/8stn Dmin 109km Az.gap 174°
Corr. 0.324 5M/3stn Msd 0.3

92/4082
APR 12 0447 29.9s 37.17S 177.22E 5km M=3.7
0.4 0.04 0.03 R
Rsd 0.4s 11ph/6stn Dmin 40km Az.gap 188°
Corr. 0.598 8M/5stn Msd 0.1

92/4084
APR 12 0631 14.4s 35.43S 178.40E 272km M=3.6
1.2 0.33 0.66 28
Rsd 0.2s 8ph/7stn Dmin 294km Az.gap 336°
Corr. -0.969 6M/6stn Msd 0.2

92/4086
APR 12 0828 17.6s 40.44S 174.33E 91km M=3.5
0.3 0.01 0.01 3
Rsd 0.3s 36ph/24stn Dmin 52km Az.gap 91°
Corr. -0.076 13M/10stn Msd 0.3 1↑

92/4091
APR 12 1142 27.8s 45.16S 167.49E 115km M=3.9
0.3 0.01 0.02 2
Rsd 0.2s 26ph/17stn Dmin 43km Az.gap 176°
Corr. -0.248 25M/18stn Msd 0.2 4↑ 3↓

92/4094
APR 12 1310 11.9s 36.76S 178.67E 202km M=4.0
0.9 0.09 0.10 6
Rsd 0.2s 7ph/6stn Dmin 99km Az.gap 327°
Corr. -0.617 4M/3stn Msd 0.5

92/4096
APR 12 1319 00.2s 39.44S 177.66E 39km M=3.5
0.5 0.02 0.04 10
Rsd 0.3s 13ph/12stn Dmin 34km Az.gap 193°
Corr. -0.211 7M/7stn Msd 0.3 1↓

92/4097
APR 12 1550 05.3s 37.29S 177.24E 158km M=4.0
0.6 0.03 0.03 6
Rsd 0.2s 11ph/9stn Dmin 100km Az.gap 176°
Corr. 0.535 18M/16stn Msd 0.2 1↑

92/4105
APR 12 2137 17.2s 38.10S 176.34E 160km M=4.9
0.5 0.02 0.02 4
Rsd 0.2s 28ph/25stn Dmin 16km Az.gap 93°
Corr. 0.134 8M/4stn Msd 0.2 14↑ 1↓

92/4113
APR 13 0003 49.4s 38.25S 176.04E 172km M=3.5
1.0 0.02 0.04 12
Rsd 0.4s 22ph/17stn Dmin 111km Az.gap 138°
Corr. -0.256 16M/15stn Msd 0.3 1↑

92/4131
APR 13 0910 28.3s 35.81S 177.34E 203km M=4.1
0.9 0.08 0.14 19
Rsd 0.3s 10ph/6stn Dmin 265km Az.gap 317°
Corr. -0.699 4M/3stn Msd 0.6 1↓

92/4139
APR 13 1350 19.2s 41.70S 174.32E 14km M=4.8
0.1 0.01 0.01 2
Rsd 0.2s 28ph/22stn Dmin 10km Az.gap 152°
Corr. -0.539 16M/8stn Msd 0.3 8↑ 6↓
Felt Blenheim (77) MM4.

92/4140
APR 13 1401 36.9s 41.73S 174.35E 11km M=3.6
0.2 0.01 0.01 1
Rsd 0.2s 26ph/19stn Dmin 12km Az.gap 155°
Corr. -0.703 8M/4stn Msd 0.4 6↑ 4↓

92/4155
APR 14 0046 01.1s 41.71S 174.30E 20km M=3.7
0.1 0.01 0.01 3
Rsd 0.2s 25ph/20stn Dmin 9km Az.gap 142°
Corr. -0.555 8M/4stn Msd 0.3 2↑ 2↓

92/4185
APR 14 1643 04.8s 38.77S 175.73E 157km M=3.6
0.2 0.02 0.02 2
Rsd 0.1s 17ph/12stn Dmin 47km Az.gap 192°
Corr. -0.605 15M/13stn Msd 0.3 1↑

92/4188
APR 14 2138 05.9s 41.71S 174.30E 19km M=4.2
0.1 0.01 0.01 2
Rsd 0.3s 23ph/19stn Dmin 8km Az.gap 141°
Corr. -0.547 10M/5stn Msd 0.3 5↑ 6↓

92/4189
APR 14 2139 20.0s 41.72S 174.32E 20km M=4.1
0.2 0.01 0.01 3
Rsd 0.3s 20ph/17stn Dmin 9km Az.gap 152°
Corr. -0.582 10M/5stn Msd 0.3 3↑ 2↓

92/4205
APR 15 0631 13.8s 39.89S 176.99E 38km M=3.6
0.2 0.01 0.02 2
Rsd 0.2s 37ph/27stn Dmin 19km Az.gap 180°
Corr. -0.648 22M/19stn Msd 0.3 1↑ 1↓

92/4214
APR 15 1147 15.1s 39.95S 176.93E 32km M=3.7
0.2 0.01 0.03 1
Rsd 0.2s 35ph/29stn Dmin 11km Az.gap 180°
Corr. -0.463 34M/31stn Msd 0.2 1↑ 2↓

92/4216
APR 15 1250 34.5s 44.85S 167.34E 5km M=3.8
0.3 0.02 0.02 R
Rsd 0.1s 19ph/15stn Dmin 51km Az.gap 213°
Corr. -0.895 24M/19stn Msd 0.2 1↑

92/4229
APR 15 1948 50.0s 37.91S 176.44E 180km M=4.4
0.6 0.02 0.02 5
Rsd 0.2s 21ph/17stn Dmin 37km Az.gap 105°
Corr. 0.156 27M/22stn Msd 0.3 1↓

92/4230
APR 15 2034 34.4s 37.19S 177.25E 5km M=3.7
0.3 0.03 0.02 R
Rsd 0.3s 11ph/7stn Dmin 38km Az.gap 188°
Corr. 0.828 9M/7stn Msd 0.2 1↓

92/4251
APR 16 0710 24.8s 41.06S 175.33E 13km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 23ph/21stn Dmin 18km Az.gap 69°
Corr. -0.160 25M/22stn Msd 0.2 5↑ 3↓
Felt Masterton (66) and Carterton (70).

92/4259
APR 16 1005 29.2s 38.52S 175.80E 174km M=3.6
0.2 0.04 0.04 1
Rsd 0.1s 14ph/8stn Dmin 75km Az.gap 211°
Corr. -0.801 10M/10stn Msd 0.2 1↑

92/4268
APR 16 1642 58.0s 37.29S 177.14E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.3s 9ph/6stn Dmin 26km Az.gap 174°
Corr. 0.719 8M/5stn Msd 0.1

92/4269
APR 16 1703 33.6s 37.19S 177.22E 5km M=3.7
0.2 0.03 0.02 R
Rsd 0.2s 9ph/7stn Dmin 37km Az.gap 186°
Corr. 0.773 7M/5stn Msd 0.2 1↓

92/4279
APR 16 2245 40.1s 37.10S 179.11E 106km M=3.7
0.3 0.03 0.05 3
Rsd 0.1s 8ph/5stn Dmin 91km Az.gap 337°
Corr. -0.746 4M/3stn Msd 0.4

92/4280
APR 16 2302 09.3s 43.07S 171.20E 5km M=3.9
0.1 0.01 0.00 R
Rsd 0.1s 17ph/10stn Dmin 37km Az.gap 110°
Corr. -0.121 9M/6stn Msd 0.2 1↑

92/4289
APR 17 0444 43.5s 38.26S 175.92E 207km M=4.1
0.5 0.03 0.03 4
Rsd 0.2s 23ph/18stn Dmin 51km Az.gap 91°
Corr. 0.173 18M/18stn Msd 0.3 1↑

92/4293
APR 17 0521 38.5s 38.50S 176.82E 67km M=3.6
0.2 0.01 0.01 3
Rsd 0.2s 25ph/19stn Dmin 40km Az.gap 80°
Corr. 0.055 20M/19stn Msd 0.2 1↑

92/4295
APR 17 0754 30.2s 45.35S 167.20E 90km M=3.6
0.3 0.01 0.02 2
Rsd 0.1s 24ph/16stn Dmin 14km Az.gap 204°
Corr. -0.063 20M/16stn Msd 0.1 1↑ 2↓

92/4314
APR 17 1505 21.5s 45.97S 166.84E 69km M=3.5
0.2 0.01 0.02 2
Rsd 0.1s 24ph/14stn Dmin 61km Az.gap 247°
Corr. 0.480 21M/16stn Msd 0.2 1↑

92/4318
APR 17 1820 07.2s 36.76S 177.04E 250km M=3.9
0.4 0.03 0.03 4
Rsd 0.2s 10ph/7stn Dmin 118km Az.gap 220°
Corr. 0.598 10M/9stn Msd 0.3 1↑

92/4338
APR 18 0727 31.2s 38.55S 175.80E 158km M=3.7
0.4 0.02 0.02 4
Rsd 0.1s 14ph/11stn Dmin 72km Az.gap 152°
Corr. 0.202 14M/13stn Msd 0.4

92/4340
APR 18 0842 58.0s 36.49S 179.95W 33km M=3.6
0.8 0.04 0.08 R
Rsd 0.2s 7ph/4stn Dmin 198km Az.gap 317°
Corr. 0.100 5M/4stn Msd 0.3

92/4342
APR 18 0854 45.2s 38.24S 176.24E 160km M=4.2
0.3 0.01 0.02 3
Rsd 0.2s 25ph/19stn Dmin 16km Az.gap 85°
Corr. 0.058 24M/20stn Msd 0.3 9↑ 4↓

92/4359
APR 18 1600 41.8s 37.85S 177.27E 104km M=3.6
0.4 0.02 0.02 5
Rsd 0.2s 17ph/13stn Dmin 90km Az.gap 122°
Corr. 0.047 18M/17stn Msd 0.2 1↑

92/4367
APR 18 2034 58.0s 38.45S 176.30E 126km M=3.8
0.4 0.02 0.01 4
Rsd 0.2s 19ph/14stn Dmin 52km Az.gap 121°
Corr. -0.173 18M/17stn Msd 0.3 1↑

92/4396
APR 19 1529 40.1s 36.79S 176.84E 33km M=4.1
0.2 0.01 0.01 R
Rsd 0.1s 11ph/7stn Dmin 190km Az.gap 299°
Corr. -0.363 6M/5stn Msd 0.3 1↑

92/4397
APR 19 1540 28.0s 41.27S 174.99E 25km M=3.5
0.1 0.01 0.01 1
Rsd 0.1s 22ph/19stn Dmin 19km Az.gap 95°
Corr. -0.171 20M/16stn Msd 0.2 4↑ 4↓
Felt Wellington (68) and Greytown (69).

92/4403
APR 19 1803 09.6s 38.25S 176.22E 174km M=4.7
0.4 0.02 0.02 4
Rsd 0.2s 25ph/21stn Dmin 8km Az.gap 84°
Corr. 0.120 25M/20stn Msd 0.3 11↑ 2↓

92/4416
APR 20 0345 13.5s 37.65S 177.66E 90km M=3.5
1.0 0.04 0.05 11
Rsd 0.4s 10ph/6stn Dmin 57km Az.gap 182°
Corr. 0.453 6M/4stn Msd 0.3 1↑

92/4429
APR 20 1156 15.7s 36.73S 177.45E 12km M=3.9
0.6 0.05 0.04 R
Rsd 0.3s 10ph/7stn Dmin 92km Az.gap 233°
Corr. 0.688 8M/6stn Msd 0.4

92/4444
APR 20 2313 60.0s 38.58S 175.77E 165km M=4.0
0.3 0.02 0.02 3
Rsd 0.1s 16ph/11stn Dmin 68km Az.gap 161°
Corr. 0.500 19M/17stn Msd 0.3 1↑

92/4460
APR 21 1255 06.4s 35.59S 178.71E 188km M=4.4
0.4 0.04 0.04 7
Rsd 0.1s 12ph/10stn Dmin 226km Az.gap 304°
Corr. 0.730 17M/15stn Msd 0.2

92/4461
APR 21 1341 28.7s 36.78S 177.95E 107km M=4.7
0.8 0.04 0.03 7
Rsd 0.2s 19ph/17stn Dmin 96km Az.gap 251°
Corr. 0.871 27M/22stn Msd 0.3 1↑

92/4471
APR 22 0232 10.5s 39.18S 175.50E 102km M=3.9
0.2 0.01 0.01 2
Rsd 0.2s 27ph/21stn Dmin 4km Az.gap 60°
Corr. 0.077 24M/20stn Msd 0.3 3↑ 1↓

92/4489
APR 22 1435 49.4s 37.08S 177.96E 69km M=3.7
0.5 0.03 0.03 5
Rsd 0.2s 11ph/9stn Dmin 65km Az.gap 232°
Corr. 0.641 10M/8stn Msd 0.3 1↓

92/4498
APR 22 2008 49.4s 40.23S 174.02E 108km M=3.5
0.3 0.01 0.01 3
Rsd 0.3s 35ph/22stn Dmin 64km Az.gap 114°
Corr. -0.158 13M/11stn Msd 0.3 1↑ 3↓

92/4528
APR 24 0902 25.6s 35.03S 178.73E 255km M=4.1
0.5 0.03 0.05 7
Rsd 0.1s 13ph/9stn Dmin 288km Az.gap 313°
Corr. 0.153 10M/9stn Msd 0.3

92/4530
APR 24 0943 55.2s 39.84S 174.84E 89km M=3.9
0.1 0.00 0.01 2
Rsd 0.1s 31ph/24stn Dmin 9km Az.gap 68°
Corr. -0.053 15M/12stn Msd 0.2 1↓

92/4536
APR 24 1254 56.9s 37.36S 177.81E 103km M=3.6
0.2 0.01 0.01 2
Rsd 0.1s 13ph/10stn Dmin 51km Az.gap 192°
Corr. 0.539 11M/10stn Msd 0.1 1↓

92/4537
APR 24 1302 36.4s 37.85S 176.57E 155km M=3.9
0.4 0.02 0.01 4
Rsd 0.2s 17ph/13stn Dmin 43km Az.gap 112°
Corr. -0.097 13M/12stn Msd 0.3
Hawkes Bay net Ps are automatic picks.

92/4555
APR 25 0201 52.9s 38.61S 175.78E 165km M=4.4
0.3 0.01 0.03 3
Rsd 0.1s 20ph/13stn Dmin 65km Az.gap 72°
Corr. -0.153 18M/15stn Msd 0.3 1↑

92/4562
APR 25 0735 04.6s 44.60S 168.17E 77km M=4.6
0.4 0.03 0.02 3
Rsd 0.2s 26ph/17stn Dmin 20km Az.gap 154°
Corr. 0.002 13M/7stn Msd 0.1 1↑ 2↓
Felt Earnslaw Stn (121) MM4.

92/4567
APR 25 1235 09.0s 37.85S 177.24E 82km M=3.5
0.4 0.02 0.03 8
Rsd 0.2s 11ph/9stn Dmin 78km Az.gap 122°
Corr. 0.295 10M/8stn Msd 0.2

92/4570
APR 25 1423 35.2s 36.37S 176.57E 12km M=4.2
0.7 0.05 0.04 R
Rsd 0.3s 11ph/7stn Dmin 241km Az.gap 306°
Corr. -0.033 4M/3stn Msd 0.2

92/4592
APR 26 1242 17.5s 37.33S 177.14E 5km M=3.8
0.3 0.03 0.04 R
Rsd 0.4s 6ph/5stn Dmin 22km Az.gap 170°
Corr. 0.672 9M/7stn Msd 0.2

92/4598
APR 26 1743 49.3s 40.10S 174.85E 12km M=3.4
0.1 0.00 0.01 R
Rsd 0.2s 29ph/21stn Dmin 34km Az.gap 70°
Corr. -0.214 24M/21stn Msd 0.2 2↑ 1↓
Felt Wanganui (57).

92/4604
APR 26 2248 03.1s 37.29S 177.16E 5km M=4.0
0.2 0.03 0.02 R
Rsd 0.3s 10ph/6stn Dmin 27km Az.gap 174°
Corr. 0.598 12M/8stn Msd 0.2 1↑

92/4605
APR 26 2256 03.2s 38.63S 175.71E 192km M=3.8
0.5 0.04 0.05 4
Rsd 0.1s 12ph/8stn Dmin 62km Az.gap 288°
Corr. 0.222 9M/8stn Msd 0.3 1↑

92/4607
APR 26 2312 23.6s 36.64S 177.03E 283km M=3.9
0.3 0.03 0.05 3
Rsd 0.1s 10ph/9stn Dmin 462km Az.gap 337°
Corr. -0.430 5M/4stn Msd 0.4

92/4626
APR 27 1109 03.3s 38.58S 175.74E 173km M=4.3
0.3 0.01 0.02 3
Rsd 0.1s 26ph/18stn Dmin 60km Az.gap 75°
Corr. -0.099 18M/15stn Msd 0.3 2↑ 1↓
Hawkes Bay net Ps are automatic picks, no records. WAH S from visual record.

92/4639
APR 27 2315 30.3s 41.41S 173.50E 91km M=3.6
0.3 0.01 0.02 3
Rsd 0.3s 34ph/22stn Dmin 28km Az.gap 61°
Corr. -0.324 12M/12stn Msd 0.3 1↓

92/4648
APR 28 0523 24.8s 38.12S 176.53E 153km M=4.9
0.4 0.01 0.02 3
Rsd 0.2s 29ph/21stn Dmin 13km Az.gap 96°
Corr. -0.037 8M/4stn Msd 0.2 15↑ 8↓

92/4655
APR 28 0825 10.7s 37.20S 177.24E 12km M=3.7
0.3 0.04 0.03 R
Rsd 0.4s 7ph/5stn Dmin 104km Az.gap 185°
Corr. 0.793 14M/10stn Msd 0.2

92/4665
APR 28 1608 51.4s 38.56S 176.02E 12km M=2.5
0.1 0.00 0.01 R
Rsd 0.1s 9ph/6stn Dmin 29km Az.gap 161°
Corr. -0.531 6M/6stn Msd 0.3
Felt Waihora Rd (40) MM4.

92/4716
APR 29 0747 47.5s 42.25S 172.74E 12km M=3.5
0.1 0.01 0.01 R
Rsd 0.1s 22ph/15stn Dmin 56km Az.gap 77°
Corr. -0.222 23M/17stn Msd 0.2 2↑ 1↓

92/4725
APR 29 0913 24.8s 38.17S 175.79E 180km M=3.6
0.3 0.01 0.04 3
Rsd 0.1s 17ph/13stn Dmin 158km Az.gap 173°
Corr. 0.140 6M/6stn Msd 0.3

92/4744
APR 29 1522 36.8s 38.99S 175.64E 5km M=3.5
0.2 0.01 0.02 R
Rsd 0.3s 21ph/15stn Dmin 21km Az.gap 103°
Corr. -0.249 14M/14stn Msd 0.3 1↑ 1↓

92/4749
APR 29 1633 57.3s 38.40S 176.06E 167km M=4.8
0.3 0.01 0.02 3
Rsd 0.2s 29ph/20stn Dmin 17km Az.gap 85°
Corr. 0.110 8M/4stn Msd 0.2 8↑ 1↓
Hawkes Bay net Ps are automatic picks, no records. WAH S from visual record.

92/4761
APR 29 2116 40.0s 37.98S 175.86E 332km M=3.8
0.6 0.05 0.10 7
Rsd 0.1s 15ph/12stn Dmin 114km Az.gap 290°
Corr. -0.492 6M/6stn Msd 0.4
WHH P is an automatic pick, no records.

92/4763
APR 29 2142 57.7s 44.99S 167.54E 72km M=4.3
0.2 0.01 0.02 2
Rsd 0.1s 25ph/16stn Dmin 47km Az.gap 191°
Corr. -0.680 9M/5stn Msd 0.3 3↑ 10↓

92/4777
APR 30 0212 38.8s 37.97S 176.55E 155km M=4.4
0.3 0.01 0.01 3
Rsd 0.1s 24ph/19stn Dmin 29km Az.gap 78°
Corr. -0.224 18M/14stn Msd 0.3 5↑ 1↓
Hawkes Bay net Ps are automatic picks, no records. WAH S from visual record.

92/4778
APR 30 0259 29.1s 45.22S 166.35E 5km M=4.3
0.3 0.02 0.03 R
Rsd 0.1s 19ph/14stn Dmin 69km Az.gap 263°
Corr. 0.242 9M/5stn Msd 0.2 1↑

92/4795
APR 30 1622 17.1s 40.74S 174.59E 77km M=3.6
0.2 0.01 0.01 3
Rsd 0.2s 31ph/23stn Dmin 30km Az.gap 74°
Corr. -0.243 14M/11stn Msd 0.3 1↑ 6↓

92/4803
APR 30 2253 30.3s 36.98S 177.04E 206km M=3.8
0.7 0.04 0.05 6
Rsd 0.2s 12ph/9stn Dmin 120km Az.gap 217°
Corr. 0.244 11M/10stn Msd 0.3

92/4816
MAY 01 0648 04.0s 40.08S 176.92E 57km M=3.9
0.2 0.01 0.02 6
Rsd 0.2s 32ph/28stn Dmin 13km Az.gap 184°
Corr. -0.389 18M/14stn Msd 0.2 3↑ 6↓
Hawkes Bay net Ps are automatic picks, no records.

92/4818
MAY 01 0845 03.9s 42.12S 173.07E 12km M=4.4
0.1 0.01 0.01 R
Rsd 0.2s 27ph/20stn Dmin 42km Az.gap 62°
Corr. -0.054 12M/6stn Msd 0.2 5↑ 1↓
Felt St Arnaud (81) MM4.

92/4829
MAY 01 1457 08.0s 37.71S 176.86E 163km M=4.3
0.3 0.02 0.01 3
Rsd 0.2s 24ph/16stn Dmin 66km Az.gap 129°
Corr. 0.410 20M/15stn Msd 0.3 1↑

92/4836
MAY 01 1751 12.5s 37.21S 177.12E 5km M=3.7
0.3 0.03 0.03 R
Rsd 0.3s 11ph/9stn Dmin 36km Az.gap 181°
Corr. 0.777 14M/10stn Msd 0.2 1↑
WHH P is an automatic pick, no records.

92/4837
MAY 01 1813 59.0s 35.73S 178.28E 223km M=3.8
1.0 0.05 0.07 9
Rsd 0.2s 11ph/8stn Dmin 207km Az.gap 297°
Corr. 0.531 5M/5stn Msd 0.2

92/4843
MAY 01 1839 06.9s 38.65S 175.77E 165km M=3.6
0.2 0.01 0.02 1
Rsd 0.0s 16ph/14stn Dmin 60km Az.gap 304°
Corr. -0.369 7M/7stn Msd 0.3 1↑

92/4846
MAY 01 1854 56.8s 37.83S 175.33E 254km M=3.6
0.4 0.11 0.08 15
Rsd 0.1s 14ph/10stn Dmin 310km Az.gap 321°
Corr. -0.404 6M/5stn Msd 0.2

92/4847
MAY 02 0039 53.2s 37.60S 178.32E 48km M=3.7
0.1 0.00 0.01 1
Rsd 0.0s 7ph/4stn Dmin 2km Az.gap 254°
Corr. 0.594 5M/3stn Msd 0.2 1↑

92/4848
MAY 02 0048 12.5s 37.60S 178.41E 49km M=4.1
0.2 0.01 0.02 1
Rsd 0.1s 13ph/8stn Dmin 10km Az.gap 264°
Corr. 0.578 16M/13stn Msd 0.3 1↑
Hawkes Bay net Ps are automatic picks, no records.

92/4862
MAY 02 0844 58.4s 35.23S 179.01E 194km M=4.8
0.8 0.07 0.06 13
Rsd 0.2s 11ph/10stn Dmin 271km Az.gap 313°
Corr. 0.563 18M/14stn Msd 0.3 1↑

92/4869
MAY 02 1304 26.1s 38.02S 175.78E 282km M=4.0
0.7 0.08 0.11 10
Rsd 0.3s 18ph/14stn Dmin 208km Az.gap 231°
Corr. -0.895 10M/8stn Msd 0.3 1↓

92/4871
MAY 02 1438 44.9s 38.34S 175.82E 181km M=4.3
0.3 0.01 0.03 3
Rsd 0.2s 18ph/13stn Dmin 56km Az.gap 115°
Corr. -0.099 19M/15stn Msd 0.2 1↑

92/4896
MAY 03 0340 31.2s 40.17S 175.26E 12km M=3.8
0.1 0.00 0.01 R
Rsd 0.2s 28ph/22stn Dmin 50km Az.gap 60°
Corr. -0.194 25M/22stn Msd 0.3 2↑ 7↓
Felt western Manawatu area (61,62) MM4.

92/4897
MAY 03 0412 08.5s 40.46S 173.34E 160km M=4.0
0.3 0.01 0.01 3
Rsd 0.2s 36ph/22stn Dmin 63km Az.gap 143°
Corr. -0.129 15M/12stn Msd 0.2 5↑ 3↓

92/4929
MAY 04 0410 45.8s 38.19S 179.12E 16km M=3.9
0.3 0.01 0.02 2
Rsd 0.1s 12ph/8stn Dmin 77km Az.gap 267°
Corr. -0.248 17M/14stn Msd 0.3 1↑

92/4938
MAY 04 0648 57.0s 37.36S 176.73E 262km M=4.1
1.0 0.04 0.04 9
Rsd 0.3s 14ph/13stn Dmin 98km Az.gap 154°
Corr. 0.314 16M/13stn Msd 0.3 1↑

92/4943
MAY 04 1205 34.4s 40.10S 176.91E 53km M=3.6
0.3 0.01 0.04 6
Rsd 0.2s 27ph/20stn Dmin 15km Az.gap 187°
Corr. -0.183 17M/13stn Msd 0.3 3↑ 1↓

92/4944
MAY 04 1224 33.9s 43.53S 170.57E 5km M=2.2
0.2 0.01 0.02 R
Rsd 0.2s 5ph/3stn Dmin 23km Az.gap 169°
Corr. 0.072 3M/3stn Msd 0.3 1↓
Felt Erewhon Stn (106) MM4.

92/4945
MAY 04 1511 53.4s 37.30S 177.55E 107km M=4.0
0.5 0.02 0.02 5
Rsd 0.2s 15ph/11stn Dmin 74km Az.gap 187°
Corr. 0.273 18M/14stn Msd 0.2 4↑ 1↓

92/4961
MAY 04 2256 05.3s 37.58S 179.45E 106km M=3.8
0.3 0.03 0.07 4
Rsd 0.1s 8ph/5stn Dmin 101km Az.gap 314°
Corr. -0.781 6M/4stn Msd 0.3 1↑

92/4971
MAY 05 0454 25.7s 38.60S 176.01E 5km M=2.7
0.1 0.01 0.01 R
Rsd 0.2s 14ph/9stn Dmin 8km Az.gap 92°
Corr. -0.100 11M/11stn Msd 0.4
Felt Waihora Rd (40) MM3.

92/4976
MAY 05 0635 57.7s 38.58S 176.01E 5km M=3.1
0.1 0.01 0.01 R
Rsd 0.2s 18ph/13stn Dmin 10km Az.gap 70°
Corr. -0.330 11M/11stn Msd 0.5 1↑
Felt Oruanui Rd (41) MM4. Hawkes Bay net Ps are automatic picks, no records.

92/4979
MAY 05 0749 51.4s 38.09S 176.35E 165km M=4.2
0.4 0.02 0.02 4
Rsd 0.2s 19ph/15stn Dmin 71km Az.gap 94°
Corr. -0.189 14M/13stn Msd 0.3 4↑ 1↓
Hawkes Bay net Ps are automatic picks, no records.

92/4980
MAY 05 0807 02.6s 38.60S 176.01E 5km M=2.1
0.1 0.01 0.01 R
Rsd 0.1s 10ph/7stn Dmin 8km Az.gap 93°
Corr. 0.015 6M/6stn Msd 0.5
Felt Taupo (41).

92/4985
MAY 05 1057 54.5s 39.30S 175.07E 24km M=3.8
0.1 0.01 0.01 1
Rsd 0.2s 24ph/19stn Dmin 30km Az.gap 78°
Corr. 0.167 30M/25stn Msd 0.2 2↑ 1↓
Hawkes Bay net Ps are automatic picks, no records.

92/4987
MAY 05 1212 34.3s 39.21S 174.92E 215km M=3.7
0.6 0.02 0.07 5
Rsd 0.2s 17ph/14stn Dmin 54km Az.gap 219°
Corr. -0.416 11M/10stn Msd 0.2 1↑

92/5007
MAY 05 2218 05.0s 40.02S 176.91E 33km M=3.7
0.2 0.01 0.02 2
Rsd 0.2s 30ph/24stn Dmin 9km Az.gap 182°
Corr. -0.477 31M/28stn Msd 0.2 1↓
Hawkes Bay net Ps are automatic picks, no records. WAH S from visual record.

92/5015
MAY 06 0652 51.0s 36.46S 177.50E 12km M=3.9
1.5 0.12 0.06 R
Rsd 0.6s 8ph/6stn Dmin 145km Az.gap 253°
Corr. 0.746 10M/8stn Msd 0.3

92/5017
MAY 06 0821 46.3s 41.29S 174.82E 30km M=3.5
0.1 0.01 0.01 1
Rsd 0.2s 23ph/18stn Dmin 4km Az.gap 101°
Corr. -0.006 21M/18stn Msd 0.2 4↑ 3↓
Felt Wellington (68) MM4.

92/5033
MAY 06 2038 11.0s 44.39S 167.91E 12km M=4.9
0.2 0.01 0.02 R
Rsd 0.1s 24ph/18stn Dmin 31km Az.gap 195°
Corr. -0.684 15M/8stn Msd 0.2 2↑ 6↓
Felt Earnslaw Stn (121) MM4.

92/5035
MAY 06 2238 28.4s 45.24S 166.95E 24km M=3.8
0.6 0.01 0.05 2
Rsd 0.2s 27ph/17stn Dmin 30km Az.gap 253°
Corr. -0.400 8M/5stn Msd 0.1 1↑ 4↓

92/5037
MAY 06 2253 00.6s 38.70S 175.96E 156km M=3.6
0.6 0.04 0.05 4
Rsd 0.2s 12ph/7stn Dmin 61km Az.gap 191°
Corr. -0.400 13M/11stn Msd 0.2 1↑

92/5038
MAY 06 2350 09.0s 38.06S 176.46E 162km M=4.0
0.4 0.02 0.02 3
Rsd 0.2s 18ph/13stn Dmin 19km Az.gap 97°
Corr. -0.097 17M/14stn Msd 0.3

92/5045
MAY 07 0701 23.0s 37.21S 176.80E 197km M=4.5
0.5 0.02 0.01 4
Rsd 0.1s 16ph/15stn Dmin 109km Az.gap 170°
Corr. 0.523 21M/17stn Msd 0.2 1↑ 6↓

92/5051
MAY 07 1516 11.1s 37.48S 178.73E 28km M=3.7
0.3 0.01 0.03 1
Rsd 0.1s 10ph/6stn Dmin 40km Az.gap 286°
Corr. 0.416 6M/4stn Msd 0.3

92/5054
MAY 07 1721 36.8s 37.49S 178.65E 29km M=3.6
0.2 0.01 0.02 1
Rsd 0.1s 9ph/7stn Dmin 33km Az.gap 276°
Corr. 0.707 8M/6stn Msd 0.1 1↑ 1↓

92/5065
MAY 08 0503 33.7s 38.63S 175.86E 156km M=3.7
0.6 0.02 0.03 5
Rsd 0.2s 22ph/16stn Dmin 72km Az.gap 145°
Corr. -0.193 15M/13stn Msd 0.2

92/5071
MAY 08 1612 17.0s 38.11S 176.23E 154km M=3.8
0.4 0.02 0.01 4
Rsd 0.1s 12ph/10stn Dmin 122km Az.gap 219°
Corr. -0.750 14M/13stn Msd 0.1

92/5072
MAY 08 1708 15.6s 36.06S 179.05E 267km M=4.2
1.2 0.37 0.59 15
Rsd 0.3s 10ph/7stn Dmin 234km Az.gap 344°
Corr. -0.969 7M/5stn Msd 0.2

92/5076
MAY 09 0240 19.6s 43.33S 170.37E 5km M=3.5
0.3 0.02 0.03 R
Rsd 0.2s 17ph/14stn Dmin 41km Az.gap 149°
Corr. -0.762 15M/14stn Msd 0.2 1↓

92/5079
MAY 09 0721 02.8s 37.72S 176.44E 157km M=3.7
1.1 0.03 0.04 12
Rsd 0.3s 12ph/9stn Dmin 126km Az.gap 135°
Corr. 0.216 9M/8stn Msd 0.2 1↑

92/5080
MAY 09 0815 47.2s 40.49S 174.92E 45km M=3.8
0.1 0.01 0.02 6
Rsd 0.3s 27ph/21stn Dmin 42km Az.gap 98°
Corr. -0.226 15M/12stn Msd 0.2 3↑ 1↓

92/5081
MAY 09 1158 12.0s 41.30S 172.80E 150km M=3.7
0.4 0.02 0.02 3
Rsd 0.3s 26ph/15stn Dmin 52km Az.gap 98°
Corr. -0.328 10M/8stn Msd 0.2 2↑ 1↓

92/5091
MAY 09 2329 00.7s 45.28S 167.27E 71km M=4.3
0.4 0.01 0.03 3
Rsd 0.2s 22ph/15stn Dmin 23km Az.gap 194°
Corr. -0.054 10M/6stn Msd 0.2 2↑ 5↓

92/5096
MAY 10 0327 49.6s 39.14S 174.91E 219km M=4.2
0.4 0.02 0.04 3
Rsd 0.3s 30ph/24stn Dmin 37km Az.gap 127°
Corr. -0.135 22M/19stn Msd 0.2 3↑ 1↓

92/5098
MAY 10 0720 44.4s 38.73S 175.24E 223km M=4.0
0.4 0.02 0.06 3
Rsd 0.2s 18ph/13stn Dmin 45km Az.gap 79°
Corr. -0.065 21M/19stn Msd 0.2 5↑ 1↓

92/5100
MAY 10 1118 03.4s 38.74S 175.73E 167km M=3.9
0.5 0.02 0.04 5
Rsd 0.3s 21ph/16stn Dmin 49km Az.gap 133°
Corr. -0.275 13M/10stn Msd 0.2 1↓

92/5103
MAY 10 1344 31.8s 40.05S 173.73E 163km M=3.7
0.5 0.02 0.02 5
Rsd 0.3s 26ph/20stn Dmin 81km Az.gap 144°
Corr. -0.119 12M/10stn Msd 0.3 1↓

92/5111
MAY 10 2127 03.4s 37.02S 175.73E 33km M=4.3
0.4 0.02 0.03 R
Rsd 0.1s 11ph/9stn Dmin 237km Az.gap 272°
Corr. -0.793 6M/5stn Msd 0.5

92/5124
MAY 11 0708 56.2s 37.70S 179.73E 33km M=3.9
0.6 0.03 0.05 R
Rsd 0.2s 12ph/8stn Dmin 127km Az.gap 301°
Corr. -0.271 9M/6stn Msd 0.3 1↑

92/5128
MAY 11 0950 49.9s 36.51S 177.26E 235km M=3.9
0.2 0.08 0.12 12
Rsd 0.0s 13ph/11stn Dmin 244km Az.gap 319°
Corr. -0.992 7M/6stn Msd 0.3

92/5136
MAY 11 1838 08.2s 39.72S 174.05E 136km M=3.5
0.3 0.01 0.02 4
Rsd 0.2s 26ph/18stn Dmin 76km Az.gap 160°
Corr. -0.373 13M/11stn Msd 0.2 1↑

92/5137
MAY 11 1943 11.2s 38.17S 175.69E 209km M=4.1
0.4 0.04 0.03 4
Rsd 0.1s 16ph/13stn Dmin 105km Az.gap 213°
Corr. -0.363 23M/20stn Msd 0.1

92/5151
MAY 12 1644 46.7s 36.75S 177.37E 153km M=3.7
0.5 0.10 0.11 12
Rsd 0.1s 5ph/3stn Dmin 166km Az.gap 324°
Corr. -0.652 3M/3stn Msd 0.2

92/5168
MAY 13 0940 41.4s 38.62S 176.14E 97km M=3.6
0.4 0.02 0.01 5
Rsd 0.2s 17ph/12stn Dmin 77km Az.gap 144°
Corr. -0.050 18M/17stn Msd 0.2 1↑

92/5172
MAY 13 1206 32.9s 45.04S 167.54E 129km M=3.9
0.4 0.02 0.03 3
Rsd 0.2s 21ph/15stn Dmin 51km Az.gap 185°
Corr. -0.396 20M/14stn Msd 0.2 3↑ 1↓

92/5200
MAY 14 1239 49.4s 39.66S 176.35E 36km M=3.6
0.1 0.01 0.01 3
Rsd 0.3s 35ph/31stn Dmin 5km Az.gap 48°
Corr. -0.099 20M/17stn Msd 0.2 1↑ 1↓

92/5203
MAY 14 1353 12.8s 37.68S 175.53E 259km M=3.7
0.4 0.09 0.15 13
Rsd 0.1s 10ph/9stn Dmin 153km Az.gap 252°
Corr. -0.969 4M/3stn Msd 0.5

92/5209
MAY 15 0019 25.6s 38.47S 176.14E 136km M=3.6
0.6 0.03 0.07 5
Rsd 0.3s 15ph/11stn Dmin 88km Az.gap 212°
Corr. 0.363 6M/4stn Msd 0.3

92/5212
MAY 15 0351 16.6s 42.16S 172.35E 77km M=3.9
0.3 0.01 0.02 5
Rsd 0.3s 24ph/15stn Dmin 63km Az.gap 81°
Corr. -0.204 13M/9stn Msd 0.3 4↑ 1↓

92/5228
MAY 15 1613 36.9s 37.87S 175.69E 190km M=3.7
0.2 0.02 0.04 3
Rsd 0.1s 23ph/15stn Dmin 132km Az.gap 236°
Corr. -0.855 11M/10stn Msd 0.2

92/5239
MAY 16 0216 28.4s 39.50S 174.68E 146km M=3.8
0.4 0.01 0.03 4
Rsd 0.3s 28ph/21stn Dmin 39km Az.gap 135°
Corr. 0.058 13M/11stn Msd 0.3 6↑ 3↓

92/5246
MAY 16 0606 30.6s 38.61S 175.91E 166km M=3.5
0.6 0.04 0.08 4
Rsd 0.2s 17ph/14stn Dmin 68km Az.gap 209°
Corr. 0.652 14M/12stn Msd 0.3 1↑

92/5260
MAY 16 1018 28.8s 38.60S 175.96E 146km M=4.1
0.3 0.01 0.02 3
Rsd 0.2s 27ph/17stn Dmin 71km Az.gap 68°
Corr. 0.067 20M/18stn Msd 0.4 9↑ 1↓

92/5272
MAY 16 1757 13.5s 38.23S 178.37E 24km M=5.6
0.3 0.02 0.04 2
Rsd 0.2s 19ph/17stn Dmin 20km Az.gap 153°
Corr. -0.002 24M/12stn Msd 0.3 3↑ 2↓
Felt Opotiki (35) to Gisborne (45), maximum intensity MM5 at Rukuhanga Stn (29).

92/5273
MAY 16 1758 50.8s 38.24S 178.34E 20km M=4.6
0.4 0.02 0.05 3
Rsd 0.2s 12ph/9stn Dmin 20km Az.gap 204°
Corr. -0.504 18M/12stn Msd 1.1 1↓

92/5277
MAY 16 1804 03.5s 38.27S 178.30E 21km M=5.2
0.2 0.01 0.03 2
Rsd 0.1s 15ph/13stn Dmin 22km Az.gap 200°
Corr. 0.504 13M/7stn Msd 0.6

92/5281
MAY 16 1811 24.0s 38.30S 178.27E 19km M=3.7
0.4 0.03 0.02 3
Rsd 0.1s 13ph/10stn Dmin 25km Az.gap 208°
Corr. -0.500 26M/22stn Msd 0.2 1↓

92/5285
MAY 16 1821 14.1s 38.27S 178.22E 22km M=3.7
0.2 0.01 0.04 3
Rsd 0.2s 12ph/10stn Dmin 22km Az.gap 187°
Corr. -0.112 25M/23stn Msd 0.2 1↑ 2↓

92/5286
MAY 16 1822 40.1s 38.21S 178.35E 27km M=3.7
0.3 0.02 0.04 1
Rsd 0.2s 11ph/7stn Dmin 17km Az.gap 215°
Corr. -0.101 18M/15stn Msd 0.2 1↓

92/5289
MAY 16 1829 40.4s 38.27S 178.32E 18km M=4.5
0.2 0.01 0.03 2
Rsd 0.2s 15ph/13stn Dmin 22km Az.gap 201°
Corr. -0.064 8M/4stn Msd 0.2 1↑ 2↓

92/5290
MAY 16 1838 27.6s 38.18S 178.21E 22km M=3.7
0.2 0.01 0.05 3
Rsd 0.2s 11ph/8stn Dmin 12km Az.gap 178°
Corr. -0.617 18M/14stn Msd 0.1 1↑

92/5301
MAY 16 2022 43.9s 38.27S 178.37E 15km M=3.9
0.3 0.01 0.05 7
Rsd 0.3s 11ph/9stn Dmin 24km Az.gap 208°
Corr. -0.057 25M/21stn Msd 0.2 1↓

92/5315
MAY 17 0106 55.9s 38.25S 178.37E 18km M=5.2
0.2 0.01 0.02 2
Rsd 0.1s 18ph/16stn Dmin 22km Az.gap 153°
Corr. 0.038 18M/9stn Msd 0.2 4↑ 2↓
Felt Rukuhanga Stn (29) and Ormond (44).

92/5327
MAY 17 0122 06.0s 38.14S 178.37E 23km M=3.6
0.5 0.02 0.05 1
Rsd 0.3s 10ph/7stn Dmin 13km Az.gap 215°
Corr. -0.149 12M/7stn Msd 0.3 1↓

92/5332
MAY 17 0212 40.8s 40.20S 173.98E 125km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 44ph/24stn Dmin 68km Az.gap 141°
Corr. -0.299 18M/15stn Msd 0.3 5↑ 2↓

92/5340
MAY 17 0435 48.1s 38.15S 178.30E 20km M=3.9
0.3 0.01 0.04 R
Rsd 0.3s 12ph/9stn Dmin 9km Az.gap 203°
Corr. -0.457 11M/7stn Msd 0.3 1↑ 1↓

92/5360
MAY 17 0629 44.7s 38.31S 178.35E 20km M=3.6
0.4 0.02 0.05 R
Rsd 0.3s 12ph/8stn Dmin 27km Az.gap 221°
Corr. -0.695 21M/16stn Msd 0.2 1↑ 2↓

92/5375
MAY 17 0904 45.0s 40.25S 176.41E 44km M=4.3
0.1 0.01 0.01 1
Rsd 0.1s 40ph/35stn Dmin 16km Az.gap 146°
Corr. -0.570 8M/4stn Msd 0.2 5↑ 1↓
Felt Mt Vernon (60), Aramoana (64) MM4 and Dannevirke (63).

92/5393
MAY 17 1217 42.3s 37.51S 177.33E 109km M=3.7
0.3 0.02 0.01 3
Rsd 0.2s 14ph/12stn Dmin 86km Az.gap 202°
Corr. -0.112 16M/14stn Msd 0.2

92/5429
MAY 17 2033 06.5s 38.18S 178.41E 20km M=3.6
0.5 0.02 0.06 3
Rsd 0.3s 7ph/5stn Dmin 18km Az.gap 221°
Corr. -0.084 10M/6stn Msd 0.2 1↓

92/5430
MAY 17 2105 23.3s 38.28S 178.40E 14km M=3.8
0.4 0.02 0.04 6
Rsd 0.3s 11ph/9stn Dmin 26km Az.gap 211°
Corr. -0.494 17M/13stn Msd 0.3 2↑ 1↓

92/5439
MAY 17 2322 22.1s 44.43S 168.58E 12km M=3.6
0.1 0.01 0.01 R
Rsd 0.2s 20ph/16stn Dmin 58km Az.gap 153°
Corr. -0.183 19M/14stn Msd 0.2 1↑ 2↓

92/5503
MAY 18 2112 15.2s 38.08S 175.81E 196km M=3.9
0.4 0.02 0.04 5
Rsd 0.2s 22ph/16stn Dmin 115km Az.gap 147°
Corr. -0.108 17M/15stn Msd 0.1 1↑

92/5504
MAY 18 2157 40.9s 42.22S 173.77E 33km M=3.7
0.1 0.01 0.01 R
Rsd 0.2s 26ph/18stn Dmin 29km Az.gap 150°
Corr. -0.656 10M/5stn Msd 0.3 5↑ 5↓

92/5506
MAY 19 0054 13.7s 47.45S 165.58E 33km M=4.0
0.4 0.02 0.03 R
Rsd 0.1s 18ph/14stn Dmin 202km Az.gap 315°
Corr. 0.229 20M/14stn Msd 0.2

92/5518
MAY 19 0718 49.4s 36.86S 179.87E 33km M=4.1
1.1 0.05 0.11 R
Rsd 0.4s 12ph/10stn Dmin 162km Az.gap 298°
Corr. -0.137 12M/8stn Msd 0.2

92/5529
MAY 19 1006 22.3s 38.17S 178.34E 18km M=3.8
0.4 0.01 0.05 4
Rsd 0.3s 10ph/8stn Dmin 13km Az.gap 211°
Corr. -0.455 11M/7stn Msd 0.2 1↑ 1↓

92/5543
MAY 19 1614 27.3s 35.83S 178.27E 223km M=4.0
0.5 0.12 0.19 10
Rsd 0.2s 10ph/8stn Dmin 196km Az.gap 330°
Corr. -0.867 12M/12stn Msd 0.2

92/5544
MAY 19 1615 26.0s 37.76S 175.44E 143km M=3.6
0.4 0.06 0.09 14
Rsd 0.2s 14ph/11stn Dmin 157km Az.gap 246°
Corr. -0.941 11M/11stn Msd 0.2

92/5547
MAY 19 2102 45.7s 39.62S 175.52E 75km M=3.6
0.3 0.01 0.02 3
Rsd 0.2s 28ph/19stn Dmin 38km Az.gap 51°
Corr. 0.250 16M/14stn Msd 0.2 1↓

92/5549
MAY 19 2147 51.1s 38.18S 178.24E 20km M=3.7
0.5 0.03 0.12 9
Rsd 0.4s 9ph/7stn Dmin 12km Az.gap 186°
Corr. -0.824 15M/11stn Msd 0.2 1↓

92/5555
MAY 20 0059 50.2s 38.51S 176.53E 169km M=3.7
0.8 0.11 0.16 10
Rsd 0.3s 11ph/8stn Dmin 58km Az.gap 209°
Corr. -0.961 6M/6stn Msd 0.2

92/5560
MAY 20 0454 27.5s 37.79S 175.93E 271km M=4.0
0.5 0.07 0.09 9
Rsd 0.2s 21ph/15stn Dmin 207km Az.gap 240°
Corr. -0.816 9M/7stn Msd 0.2

92/5585
MAY 20 1928 29.4s 35.38S 178.90E 201km M=4.7
0.7 0.06 0.07 11
Rsd 0.2s 14ph/11stn Dmin 252km Az.gap 310°
Corr. 0.504 24M/20stn Msd 0.2

92/5597
MAY 21 0520 30.8s 44.09S 170.74E 5km M=4.1
0.1 0.01 0.01 R
Rsd 0.2s 23ph/16stn Dmin 65km Az.gap 109°
Corr. -0.488 10M/5stn Msd 0.1 1↓

92/5615
MAY 21 1738 38.4s 37.52S 178.38E 60km M=4.0
0.3 0.01 0.03 2
Rsd 0.1s 14ph/10stn Dmin 12km Az.gap 261°
Corr. 0.412 20M/16stn Msd 0.3 1↑

92/5621
MAY 21 2119 27.2s 41.00S 175.58E 28km M=3.5
0.1 0.00 0.01 1
Rsd 0.1s 16ph/11stn Dmin 37km Az.gap 103°
Corr. -0.052 9M/7stn Msd 0.2 4↑ 3↓

92/5628
MAY 22 0305 19.0s 38.22S 176.27E 153km M=4.2
0.4 0.02 0.02 4
Rsd 0.2s 21ph/15stn Dmin 74km Az.gap 174°
Corr. 0.105 28M/23stn Msd 0.3 1↑

92/5632
MAY 22 0546 51.5s 35.45S 178.78E 264km M=4.1
0.3 0.02 0.04 2
Rsd 0.1s 10ph/9stn Dmin 243km Az.gap 289°
Corr. 0.027 7M/5stn Msd 0.5

92/5637
MAY 22 0857 11.1s 38.25S 178.35E 18km M=3.7
0.6 0.03 0.11 6
Rsd 0.4s 7ph/5stn Dmin 21km Az.gap 218°
Corr. -0.738 10M/6stn Msd 0.1

92/5644
MAY 22 1124 22.5s 38.19S 178.39E 20km M=3.5
0.6 0.03 0.09 4
Rsd 0.5s 9ph/6stn Dmin 18km Az.gap 220°
Corr. -0.439 10M/6stn Msd 0.1 1↓

92/5648
MAY 22 1248 09.1s 37.21S 177.67E 118km M=3.9
0.4 0.02 0.02 4
Rsd 0.1s 11ph/9stn Dmin 71km Az.gap 202°
Corr. 0.352 18M/16stn Msd 0.2

92/5656
MAY 22 1620 57.9s 38.61S 175.77E 157km M=3.6
0.7 0.03 0.04 6
Rsd 0.2s 20ph/14stn Dmin 65km Az.gap 211°
Corr. -0.342 20M/18stn Msd 0.2

92/5667
MAY 23 0151 00.7s 38.83S 175.18E 255km M=3.5
0.6 0.07 0.08 7
Rsd 0.3s 15ph/10stn Dmin 109km Az.gap 224°
Corr. -0.262 7M/7stn Msd 0.2

92/5672
MAY 23 0326 02.0s 45.10S 167.41E 89km M=4.1
0.3 0.01 0.02 2
Rsd 0.2s 26ph/16stn Dmin 46km Az.gap 195°
Corr. -0.480 9M/5stn Msd 0.2 2↑ 5↓

92/5709
MAY 23 2042 54.1s 36.32S 177.34E 227km M=3.6
0.5 0.09 0.15 14
Rsd 0.2s 9ph/4stn Dmin 211km Az.gap 320°
Corr. -0.914 3M/3stn Msd 0.2

92/5715
MAY 23 2350 23.0s 37.65S 176.26E 141km M=3.6
0.1 0.02 0.03 3
Rsd 0.1s 13ph/10stn Dmin 101km Az.gap 246°
Corr. -0.941 9M/6stn Msd 0.3

92/5719
MAY 24 0330 13.6s 34.82S 178.96E 312km M=4.3
0.5 0.18 0.38 18
Rsd 0.2s 10ph/6stn Dmin 314km Az.gap 346°
Corr. -0.973 7M/4stn Msd 0.4

92/5721
MAY 24 0533 14.3s 37.75S 179.09E 25km M=4.2
0.4 0.02 0.03 3
Rsd 0.2s 17ph/15stn Dmin 72km Az.gap 279°
Corr. -0.153 36M/30stn Msd 0.2 1↑

92/5722
MAY 24 0553 08.1s 37.73S 179.11E 24km M=3.9
0.4 0.01 0.03 3
Rsd 0.1s 13ph/11stn Dmin 73km Az.gap 284°
Corr. -0.512 24M/18stn Msd 0.2 1↑

92/5728
MAY 24 1130 27.6s 44.59S 168.02E 89km M=3.5
0.4 0.02 0.03 3
Rsd 0.2s 25ph/18stn Dmin 12km Az.gap 188°
Corr. -0.164 17M/15stn Msd 0.2 1↓

92/5733
MAY 24 1304 19.2s 37.62S 176.45E 299km M=3.7
0.5 0.09 0.07 11
Rsd 0.2s 14ph/10stn Dmin 300km Az.gap 332°
Corr. -0.625 5M/4stn Msd 0.2

92/5748
MAY 24 2158 16.3s 38.46S 176.33E 233km M=3.8
0.2 0.08 0.09 9
Rsd 0.0s 8ph/6stn Dmin 251km Az.gap 349°
Corr. -0.021 4M/2stn Msd 0.1 1↑

92/5749
MAY 24 2237 35.6s 38.14S 178.34E 18km M=3.6
0.6 0.03 0.08 7
Rsd 0.5s 7ph/5stn Dmin 11km Az.gap 210°
Corr. -0.396 10M/6stn Msd 0.2 1↓

92/5750
MAY 24 2347 18.6s 38.36S 176.35E 152km M=3.6
1.0 0.05 0.15 9
Rsd 0.3s 10ph/6stn Dmin 67km Az.gap 225°
Corr. 0.021 10M/7stn Msd 0.3

92/5756
MAY 25 0427 55.4s 47.42S 165.16E 33km M=4.0
0.7 0.04 0.06 R
Rsd 0.2s 17ph/13stn Dmin 231km Az.gap 319°
Corr. 0.367 19M/13stn Msd 0.2

92/5760
MAY 25 0757 07.7s 36.19S 176.56E 33km M=4.5
0.2 0.01 0.05 R
Rsd 0.1s 12ph/10stn Dmin 235km Az.gap 329°
Corr. -0.314 6M/5stn Msd 0.3

92/5767
MAY 25 1254 35.6s 47.52S 165.20E 33km M=3.6
0.8 0.05 0.07 R
Rsd 0.3s 18ph/12stn Dmin 231km Az.gap 320°
Corr. 0.158 10M/10stn Msd 0.2 1↑

92/5768
MAY 25 1317 15.9s 45.52S 167.10E 92km M=4.2
0.4 0.02 0.03 3
Rsd 0.2s 22ph/13stn Dmin 7km Az.gap 242°
Corr. 0.005 9M/5stn Msd 0.2 4↑ 4↓

92/5791
MAY 26 0137 21.6s 37.98S 175.88E 193km M=4.0
1.5 0.09 0.06 12
Rsd 0.2s 15ph/13stn Dmin 113km Az.gap 219°
Corr. -0.703 22M/20stn Msd 0.2

92/5809
MAY 26 1238 17.1s 38.16S 178.36E 20km M=3.6
0.4 0.02 0.06 R
Rsd 0.3s 6ph/4stn Dmin 13km Az.gap 214°
Corr. -0.190 10M/6stn Msd 0.2 1↓

92/5816
MAY 26 1714 03.4s 40.40S 174.26E 99km M=3.5
0.3 0.01 0.01 3
Rsd 0.3s 37ph/21stn Dmin 53km Az.gap 96°
Corr. -0.094 15M/12stn Msd 0.3 7↑ 1↓

92/5821
MAY 26 1951 38.4s 38.49S 175.85E 182km M=3.6
0.1 0.01 0.02 1
Rsd 0.0s 19ph/14stn Dmin 79km Az.gap 310°
Corr. 0.287 7M/7stn Msd 0.4 1↑

92/5825
MAY 27 0048 37.9s 38.07S 177.47E 86km M=4.0
0.3 0.02 0.02 3
Rsd 0.1s 17ph/15stn Dmin 38km Az.gap 102°
Corr. -0.180 26M/21stn Msd 0.2 1↓

92/5838
MAY 27 0702 42.6s 45.17S 167.39E 111km M=3.8
0.3 0.01 0.02 2
Rsd 0.1s 28ph/17stn Dmin 38km Az.gap 189°
Corr. -0.363 21M/14stn Msd 0.2 1↑

92/5844
MAY 27 0926 44.2s 37.80S 179.63W 33km M=3.5
0.7 0.06 0.06 R
Rsd 0.3s 8ph/5stn Dmin 189km Az.gap 331°
Corr. -0.241 3M/2stn Msd 0.5

92/5856
MAY 27 2230 36.1s 41.61S 173.65E 84km M=6.7
0.1 0.01 0.01 1
Rsd 0.1s 31ph/25stn Dmin 22km Az.gap 66°
Corr. -0.167 8M/4stn Msd 0.3 11↑ 16↓
Felt from Waikato to Dunedin, maximum intensity MM6 at Nelson (76) and Blenheim (77).

92/5885
MAY 29 0240 59.7s 36.81S 176.29E 247km M=3.9
0.3 0.02 0.09 4
Rsd 0.0s 10ph/7stn Dmin 177km Az.gap 315°
Corr. -0.590 6M/4stn Msd 0.4

92/5890
MAY 29 0629 02.9s 38.12S 178.47E 21km M=3.7
0.3 0.01 0.03 1
Rsd 0.1s 8ph/6stn Dmin 19km Az.gap 273°
Corr. 0.379 10M/6stn Msd 0.2

92/5900
MAY 29 1136 04.2s 36.58S 179.83E 33km M=4.2
0.4 0.02 0.03 R
Rsd 0.2s 12ph/10stn Dmin 177km Az.gap 308°
Corr. 0.084 16M/12stn Msd 0.2

92/5902
MAY 29 1406 15.7s 41.61S 173.67E 80km M=3.9
0.2 0.01 0.01 2
Rsd 0.2s 38ph/25stn Dmin 21km Az.gap 64°
Corr. -0.174 17M/12stn Msd 0.2 1↑ 5↓

92/5910
MAY 29 1656 15.3s 36.10S 178.14E 204km M=3.8
0.9 0.23 0.33 26
Rsd 0.3s 8ph/5stn Dmin 219km Az.gap 333°
Corr. -0.930 3M/2stn Msd 0.4

92/5920
MAY 29 2114 44.9s 38.22S 175.90E 156km M=3.6
0.7 0.05 0.10 8
Rsd 0.3s 13ph/6stn Dmin 106km Az.gap 243°
Corr. -0.820 11M/10stn Msd 0.2

92/5929
MAY 30 0416 36.9s 38.06S 176.99E 78km M=3.5
0.2 0.02 0.01 3
Rsd 0.2s 10ph/7stn Dmin 25km Az.gap 129°
Corr. 0.289 9M/5stn Msd 0.4

92/5934
MAY 30 0852 50.4s 44.10S 168.34E 5km M=3.6
0.2 0.01 0.02 R
Rsd 0.2s 22ph/17stn Dmin 72km Az.gap 194°
Corr. -0.707 19M/16stn Msd 0.2

92/5939
MAY 30 1224 47.9s 37.33S 178.17E 88km M=4.4
0.2 0.01 0.01 1
Rsd 0.1s 20ph/15stn Dmin 32km Az.gap 226°
Corr. 0.198 27M/21stn Msd 0.2 2↑ 1↓

92/5940
MAY 30 1250 41.3s 36.69S 178.06E 111km M=3.9
0.4 0.03 0.04 5
Rsd 0.2s 11ph/9stn Dmin 155km Az.gap 265°
Corr. 0.777 19M/15stn Msd 0.2

92/5952
MAY 30 1807 39.8s 36.18S 177.04E 194km M=3.7
0.6 0.12 0.17 19
Rsd 0.2s 7ph/5stn Dmin 231km Az.gap 318°
Corr. -0.926 2M/2stn Msd 0.2

92/5960
MAY 30 2144 18.4s 38.49S 178.96E 20km M=3.9
1.0 0.03 0.08 R
Rsd 0.3s 16ph/14stn Dmin 77km Az.gap 273°
Corr. 0.707 34M/30stn Msd 0.2 1↑

92/5994
MAY 31 1759 14.5s 36.46S 179.56E 33km M=4.3
1.0 0.06 0.07 R
Rsd 0.2s 14ph/12stn Dmin 169km Az.gap 283°
Corr. 0.777 31M/27stn Msd 0.2

92/6038
JUN 01 2235 53.1s 37.75S 177.59E 67km M=4.2
0.3 0.02 0.02 4
Rsd 0.1s 14ph/12stn Dmin 65km Az.gap 132°
Corr. -0.230 24M/20stn Msd 0.2 1↑ 1↓

92/6040
JUN 01 2344 30.7s 38.05S 176.38E 161km M=3.8
0.5 0.03 0.02 5
Rsd 0.2s 16ph/12stn Dmin 38km Az.gap 185°
Corr. -0.482 21M/19stn Msd 0.2

92/6044
JUN 02 0327 55.7s 36.91S 177.02E 195km M=3.8
0.7 0.09 0.10 10
Rsd 0.3s 10ph/9stn Dmin 137km Az.gap 273°
Corr. -0.645 17M/17stn Msd 0.2

92/6058
JUN 02 1326 44.9s 37.24S 177.14E 12km M=4.2
0.3 0.03 0.02 R
Rsd 0.4s 13ph/11stn Dmin 110km Az.gap 173°
Corr. 0.357 22M/16stn Msd 0.2 1↑

92/6059
JUN 02 1337 49.3s 37.19S 177.13E 12km M=4.5
0.5 0.04 0.02 R
Rsd 0.4s 15ph/13stn Dmin 113km Az.gap 171°
Corr. 0.147 8M/4stn Msd 0.2 1↑ 2↓

92/6068
JUN 02 1526 29.1s 38.77S 175.86E 111km M=3.8
0.3 0.01 0.02 4
Rsd 0.2s 30ph/22stn Dmin 51km Az.gap 71°
Corr. 0.037 20M/19stn Msd 0.2 1↑

92/6072
JUN 02 1922 20.1s 38.15S 178.30E 20km M=3.6
0.2 0.01 0.03 R
Rsd 0.2s 13ph/9stn Dmin 9km Az.gap 204°
Corr. -0.559 14M/10stn Msd 0.2 1↑ 1↓

92/6074
JUN 02 2112 43.3s 37.16S 177.69E 24km M=3.8
0.5 0.04 0.04 5
Rsd 0.2s 10ph/8stn Dmin 73km Az.gap 273°
Corr. 0.451 19M/15stn Msd 0.2 1↑ 1↓

92/6089
JUN 03 0837 25.7s 36.97S 177.69E 103km M=3.7
1.5 0.08 0.09 17
Rsd 0.6s 11ph/9stn Dmin 89km Az.gap 225°
Corr. 0.672 10M/8stn Msd 0.2

92/6092
JUN 03 0957 02.7s 36.30S 176.49E 146km M=3.6
2.8 0.53 0.77 157
Rsd 0.7s 5ph/5stn Dmin 224km Az.gap 313°
Corr. -0.941 3M/3stn Msd 0.4

92/6102
JUN 03 1912 16.8s 38.14S 178.30E 21km M=3.7
0.6 0.03 0.09 3
Rsd 0.6s 8ph/6stn Dmin 8km Az.gap 204°
Corr. -0.398 11M/7stn Msd 0.2 1↓

92/6129
JUN 04 0832 45.7s 38.41S 176.06E 158km M=4.2
0.4 0.02 0.02 4
Rsd 0.3s 20ph/16stn Dmin 72km Az.gap 75°
Corr. 0.085 22M/20stn Msd 0.3 8↑ 2↓

92/6134
JUN 04 1243 50.6s 41.13S 174.48E 40km M=3.7
0.1 0.01 0.01 1
Rsd 0.1s 33ph/27stn Dmin 19km Az.gap 63°
Corr. 0.020 14M/13stn Msd 0.2 6↑ 6↓
Felt Kelburn (68).

92/6142
JUN 04 1919 55.1s 37.69S 176.20E 172km M=3.5
0.9 0.12 0.19 19
Rsd 0.4s 10ph/8stn Dmin 102km Az.gap 250°
Corr. -0.941 4M/4stn Msd 0.1

92/6153
JUN 05 0400 22.2s 40.06S 177.04E 47km M=3.5
0.3 0.01 0.04 3
Rsd 0.2s 28ph/22stn Dmin 21km Az.gap 216°
Corr. -0.441 19M/19stn Msd 0.2 1↑ 1↓

92/6182
JUN 05 1643 30.1s 36.41S 178.77E 265km M=4.0
1.1 0.37 0.48 17
Rsd 0.3s 7ph/5stn Dmin 190km Az.gap 339°
Corr. -0.910 4M/3stn Msd 0.5

92/6191
JUN 06 0401 58.8s 39.09S 175.39E 136km M=3.7
0.5 0.04 0.04 5
Rsd 0.2s 23ph/17stn Dmin 88km Az.gap 188°
Corr. -0.338 12M/12stn Msd 0.2 1↑ 5↓

92/6196
JUN 06 1227 30.3s 37.51S 177.01E 12km M=3.6
0.4 0.04 0.03 R
Rsd 0.5s 10ph/8stn Dmin 84km Az.gap 149°
Corr. -0.004 12M/8stn Msd 0.2

92/6210
JUN 07 0018 37.9s 41.31S 172.79E 142km M=3.6
0.3 0.01 0.02 3
Rsd 0.3s 27ph/18stn Dmin 51km Az.gap 99°
Corr. -0.076 9M/9stn Msd 0.2 1↑

92/6223
JUN 07 1156 31.7s 38.65S 177.83E 37km M=3.8
0.3 0.03 0.03 6
Rsd 0.2s 10ph/9stn Dmin 18km Az.gap 135°
Corr. -0.711 7M/3stn Msd 0.1 1↑ 1↓

92/6224
JUN 07 1157 56.6s 38.66S 177.86E 43km M=3.7
0.3 0.03 0.04 5
Rsd 0.3s 9ph/8stn Dmin 16km Az.gap 144°
Corr. -0.637 7M/3stn Msd 0.2 1↑

92/6285
JUN 09 0424 33.7s 38.31S 176.06E 150km M=3.9
0.5 0.02 0.02 5
Rsd 0.3s 14ph/12stn Dmin 92km Az.gap 92°
Corr. 0.120 20M/19stn Msd 0.3 1↑

92/6288
JUN 09 0531 39.0s 36.66S 177.50E 179km M=4.0
0.6 0.04 0.06 6
Rsd 0.3s 10ph/9stn Dmin 126km Az.gap 240°
Corr. 0.361 17M/17stn Msd 0.2 1↑

92/6293
JUN 09 0757 48.0s 35.87S 177.18E 187km M=3.8
1.1 0.08 0.22 27
Rsd 0.2s 7ph/6stn Dmin 216km Az.gap 314°
Corr. -0.672 5M/5stn Msd 0.2

92/6317
JUN 09 2247 09.8s 38.38S 174.46E 17km M=3.6
0.3 0.01 0.02 2
Rsd 0.1s 10ph/6stn Dmin 33km Az.gap 209°
Corr. -0.715 14M/12stn Msd 0.2 1↓

92/6327
JUN 10 0543 53.9s 36.85S 176.34E 227km M=3.6
0.4 0.06 0.12 13
Rsd 0.1s 11ph/10stn Dmin 217km Az.gap 289°
Corr. -0.949 5M/5stn Msd 0.3

92/6335
JUN 10 1417 44.7s 36.85S 176.16E 160km M=3.7
0.7 0.12 0.21 27
Rsd 0.1s 13ph/11stn Dmin 177km Az.gap 302°
Corr. -0.984 9M/8stn Msd 0.4

92/6344
JUN 10 2137 23.9s 36.35S 177.94E 223km M=3.9
0.9 0.13 0.24 14
Rsd 0.3s 7ph/5stn Dmin 142km Az.gap 324°
Corr. -0.785 5M/4stn Msd 0.2

92/6346
JUN 10 2251 30.5s 39.52S 174.44E 201km M=4.2
0.4 0.02 0.03 4
Rsd 0.2s 24ph/19stn Dmin 48km Az.gap 81°
Corr. 0.260 18M/16stn Msd 0.2 13↑ 4↓

92/6348
JUN 10 2332 01.3s 42.24S 173.76E 39km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 31ph/21stn Dmin 27km Az.gap 150°
Corr. -0.383 16M/12stn Msd 0.3 3↑ 5↓

92/6353
JUN 11 0506 10.1s 41.77S 171.98E 5km M=3.7
0.2 0.01 0.01 R
Rsd 0.3s 21ph/13stn Dmin 15km Az.gap 105°
Corr. 0.007 27M/22stn Msd 0.2 2↑ 2↓

92/6386
JUN 12 1344 12.1s 42.67S 171.90E 14km M=4.0
0.2 0.01 0.01 4
Rsd 0.2s 14ph/10stn Dmin 33km Az.gap 111°
Corr. -0.156 10M/5stn Msd 0.3 1↑ 1↓

92/6392
JUN 12 2252 47.2s 39.15S 174.90E 213km M=4.5
0.3 0.01 0.02 2
Rsd 0.2s 40ph/29stn Dmin 56km Az.gap 98°
Corr. 0.328 8M/4stn Msd 0.3 8↑ 3↓

92/6394
JUN 13 0031 22.2s 38.36S 176.23E 128km M=3.7
0.9 0.09 0.09 6
Rsd 0.2s 11ph/9stn Dmin 63km Az.gap 225°
Corr. -0.891 19M/17stn Msd 0.4 1↑

92/6412
JUN 14 0123 25.7s 38.25S 175.68E 309km M=3.6
0.7 0.12 0.07 14
Rsd 0.2s 12ph/9stn Dmin 268km Az.gap 320°
Corr. -0.034 6M/6stn Msd 0.3

92/6413
JUN 14 0209 30.8s 40.24S 173.45E 159km M=3.5
0.3 0.02 0.02 3
Rsd 0.2s 26ph/17stn Dmin 74km Az.gap 162°
Corr. -0.289 13M/11stn Msd 0.2 1↓

92/6418
JUN 14 0548 48.0s 35.46S 178.81E 148km M=4.5
1.1 0.09 0.08 19
Rsd 0.2s 12ph/10stn Dmin 242km Az.gap 308°
Corr. 0.691 28M/22stn Msd 0.3 1↓

92/6419
JUN 14 0602 36.1s 38.14S 176.27E 4km M=2.6
0.4 0.02 0.02 5
Rsd 0.3s 7ph/5stn Dmin 23km Az.gap 119°
Corr. 0.617 4M/4stn Msd 0.3 1↑
Felt Rotorua (33) MM4.

92/6427
JUN 14 1413 07.6s 37.47S 175.63E 257km M=3.5
0.5 0.07 0.13 9
Rsd 0.1s 11ph/8stn Dmin 157km Az.gap 289°
Corr. -0.645 5M/5stn Msd 0.1

92/6434
JUN 14 1953 42.7s 38.78S 177.67E 42km M=3.9
0.3 0.02 0.02 7
Rsd 0.3s 13ph/11stn Dmin 37km Az.gap 98°
Corr. -0.531 12M/8stn Msd 0.4 1↓

92/6441
JUN 15 0138 47.1s 39.77S 178.53E 33km M=4.2
0.5 0.03 0.04 R
Rsd 0.2s 17ph/14stn Dmin 85km Az.gap 230°
Corr. -0.746 8M/4stn Msd 0.2 2↑ 3↓

92/6443
JUN 15 0608 21.5s 36.15S 178.45E 250km M=4.2
0.6 0.06 0.10 R
Rsd 0.2s 8ph/6stn Dmin 161km Az.gap 338°
Corr. -0.598 6M/4stn Msd 0.5

92/6444
JUN 15 1010 55.9s 36.92S 176.94E 239km M=4.0
0.2 0.01 0.01 2
Rsd 0.1s 11ph/8stn Dmin 110km Az.gap 204°
Corr. 0.563 9M/7stn Msd 0.3

92/6447
JUN 15 1413 17.9s 45.01S 167.49E 114km M=3.5
0.4 0.02 0.03 3
Rsd 0.3s 19ph/11stn Dmin 51km Az.gap 196°
Corr. -0.520 15M/10stn Msd 0.1 1↑ 1↓

92/6466
JUN 16 1511 59.3s 35.60S 178.46E 206km M=4.0
0.6 0.10 0.10 18
Rsd 0.2s 8ph/6stn Dmin 223km Az.gap 302°
Corr. 0.914 7M/6stn Msd 0.4

92/6475
JUN 16 2230 25.0s 45.01S 167.54E 85km M=3.7
0.4 0.02 0.03 4
Rsd 0.2s 16ph/11stn Dmin 48km Az.gap 190°
Corr. -0.566 19M/12stn Msd 0.2 1↑ 1↓

92/6478
JUN 16 2324 03.5s 37.48S 179.77E 12km M=4.0
0.3 0.03 0.03 R
Rsd 0.2s 13ph/11stn Dmin 130km Az.gap 291°
Corr. -0.258 20M/14stn Msd 0.2

92/6481
JUN 17 0022 39.7s 38.02S 175.95E 188km M=3.8
0.4 0.01 0.03 5
Rsd 0.2s 16ph/13stn Dmin 105km Az.gap 141°
Corr. -0.024 19M/17stn Msd 0.2

92/6491
JUN 17 1443 21.0s 36.03S 178.82E 25km M=3.7
0.3 0.02 0.03 5
Rsd 0.1s 8ph/6stn Dmin 180km Az.gap 299°
Corr. 0.766 6M/6stn Msd 0.4 1↓

92/6494
JUN 17 1619 48.0s 38.36S 177.20E 52km M=4.0
0.2 0.01 0.01 4
Rsd 0.2s 26ph/22stn Dmin 13km Az.gap 83°
Corr. 0.180 22M/18stn Msd 0.3 2↑ 1↓

92/6498
JUN 17 2047 25.1s 37.22S 177.21E 5km M=3.6
0.3 0.02 0.02 R
Rsd 0.3s 13ph/10stn Dmin 34km Az.gap 183°
Corr. 0.469 10M/6stn Msd 0.1

92/6509
JUN 18 0301 47.0s 37.59S 176.21E 286km M=3.9
0.2 0.05 0.03 6
Rsd 0.0s 8ph/7stn Dmin 342km Az.gap 341°
Corr. -0.301 5M/3stn Msd 0.3

92/6511
JUN 18 0315 08.4s 36.73S 177.17E 213km M=4.0
0.9 0.05 0.06 8
Rsd 0.4s 11ph/10stn Dmin 130km Az.gap 225°
Corr. 0.496 9M/8stn Msd 0.2

92/6512
JUN 18 0347 40.6s 39.65S 174.07E 211km M=4.5
0.6 0.02 0.03 5
Rsd 0.2s 29ph/25stn Dmin 37km Az.gap 116°
Corr. -0.058 23M/20stn Msd 0.3 4↑ 2↓

92/6521
JUN 18 1032 26.4s 47.36S 165.32E 12km M=4.5
1.3 0.11 0.14 R
Rsd 0.4s 10ph/8stn Dmin 244km Az.gap 329°
Corr. -0.226 9M/5stn Msd 0.1 1↑

92/6529
JUN 18 1304 28.9s 37.48S 176.30E 208km M=3.8
0.6 0.08 0.15 14
Rsd 0.3s 10ph/6stn Dmin 112km Az.gap 245°
Corr. -0.816 13M/12stn Msd 0.2

92/6538
JUN 18 1712 18.0s 37.92S 176.18E 173km M=3.7
0.6 0.05 0.07 10
Rsd 0.3s 13ph/9stn Dmin 90km Az.gap 233°
Corr. -0.844 11M/11stn Msd 0.2 1↑

92/6551
JUN 18 2323 59.4s 36.57S 175.09E 33km M=4.1
0.3 0.02 0.03 R
Rsd 0.1s 7ph/5stn Dmin 259km Az.gap 306°
Corr. 0.447 6M/4stn Msd 0.5

92/6553
JUN 19 0158 59.5s 35.91S 178.17E 196km M=4.0
0.3 0.04 0.07 5
Rsd 0.1s 10ph/8stn Dmin 188km Az.gap 323°
Corr. -0.504 14M/13stn Msd 0.3

92/6561
JUN 19 0926 30.1s 40.61S 174.94E 5km M=4.4
0.1 0.01 0.01 R
Rsd 0.2s 31ph/25stn Dmin 28km Az.gap 66°
Corr. -0.295 14M/7stn Msd 0.2 4↑ 13↓
Felt Wanganui (57) to Waikanae (65), max. int. MM4.

92/6575
JUN 19 1358 48.7s 36.19S 177.82E 177km M=3.6
0.2 0.02 0.04 3
Rsd 0.0s 6ph/5stn Dmin 163km Az.gap 329°
Corr. -0.863 3M/3stn Msd 0.1

92/6576
JUN 19 1518 03.4s 38.55S 176.21E 154km M=3.8
0.9 0.05 0.06 8
Rsd 0.4s 10ph/8stn Dmin 85km Az.gap 211°
Corr. -0.455 14M/13stn Msd 0.4 1↑

92/6582
JUN 19 2212 39.8s 38.53S 179.43E 5km M=4.3
0.5 0.03 0.04 R
Rsd 0.2s 11ph/11stn Dmin 115km Az.gap 283°
Corr. 0.270 26M/20stn Msd 0.3 1↑

92/6590
JUN 20 0438 54.4s 37.99S 176.49E 243km M=3.7
0.7 0.02 0.08 5
Rsd 0.2s 10ph/5stn Dmin 62km Az.gap 145°
Corr. 0.230 12M/11stn Msd 0.3

92/6602
JUN 20 1144 15.4s 38.29S 177.63E 69km M=3.5
0.3 0.02 0.01 4
Rsd 0.1s 7ph/5stn Dmin 45km Az.gap 153°
Corr. 0.040 5M/3stn Msd 0.1 1↑

92/6617
JUN 21 0105 38.4s 37.81S 176.19E 195km M=3.8
0.6 0.03 0.04 6
Rsd 0.3s 11ph/9stn Dmin 53km Az.gap 120°
Corr. 0.365 20M/17stn Msd 0.1

92/6619
JUN 21 0431 08.4s 37.32S 177.55E 278km M=3.7
1.0 0.27 0.38 11
Rsd 0.3s 6ph/4stn Dmin 104km Az.gap 299°
Corr. -0.961 4M/3stn Msd 0.4

92/6625
JUN 21 0631 22.6s 37.91S 176.35E 190km M=4.0
0.6 0.03 0.03 5
Rsd 0.2s 19ph/18stn Dmin 11km Az.gap 121°
Corr. 0.176 22M/20stn Msd 0.2

92/6627
JUN 21 1056 59.3s 45.01S 167.51E 95km M=4.3
0.5 0.02 0.04 3
Rsd 0.2s 18ph/13stn Dmin 50km Az.gap 235°
Corr. -0.352 22M/15stn Msd 0.2 3↑ 9↓

92/6633
JUN 21 1221 34.2s 38.20S 175.93E 162km M=3.8
0.4 0.01 0.03 4
Rsd 0.1s 15ph/12stn Dmin 91km Az.gap 129°
Corr. 0.377 22M/20stn Msd 0.2 1↑

92/6640
JUN 21 1743 09.4s 37.58S 176.87E 5km M=6.1
0.2 0.01 0.02 R
Rsd 0.3s 28ph/24stn Dmin 28km Az.gap 126°
Corr. 0.122 25M/13stn Msd 0.3
Felt Auckland (16) to Picton (78), maximum intensity MM 6 at Tauranga (26).

92/6641
JUN 21 1744 52.2s 37.69S 176.83E 12km M=3.5
0.8 0.04 0.02 7
Rsd 0.4s 11ph/10stn Dmin 35km Az.gap 129°
Corr. 0.203 6M/6stn Msd 0.4

92/6643
JUN 21 1747 12.7s 37.62S 176.82E 5km M=4.6
0.1 0.01 0.01 R
Rsd 0.2s 18ph/14stn Dmin 34km Az.gap 117°
Corr. -0.326 16M/10stn Msd 0.2

92/6644
JUN 21 1747 39.3s 37.70S 176.81E 5km M=5.6
0.2 0.02 0.01 R
Rsd 0.2s 24ph/19stn Dmin 39km Az.gap 104°
Corr. -0.049 14M/8stn Msd 0.3
Felt Bay of Plenty, MM3 at Rotorua (33) and Opotiki (35).

92/6647
JUN 21 1800 52.6s 37.60S 176.94E 5km M=4.4
0.3 0.02 0.02 R
Rsd 0.4s 22ph/17stn Dmin 24km Az.gap 119°
Corr. -0.069 8M/4stn Msd 0.1

92/6648
JUN 21 1801 57.4s 37.63S 176.83E 5km M=3.7
0.2 0.02 0.01 R
Rsd 0.3s 17ph/13stn Dmin 33km Az.gap 117°
Corr. -0.063 13M/9stn Msd 0.2

92/6650
JUN 21 1804 05.1s 37.66S 176.85E 12km M=3.5
0.6 0.08 0.08 R
Rsd 0.6s 8ph/5stn Dmin 70km Az.gap 154°
Corr. 0.844 9M/5stn Msd 0.2

92/6651
JUN 21 1804 19.9s 37.58S 176.99E 12km M=3.6
0.5 0.07 0.06 R
Rsd 0.4s 6ph/4stn Dmin 76km Az.gap 142°
Corr. 0.848 9M/5stn Msd 0.2

92/6652
JUN 21 1805 22.6s 37.65S 176.85E 12km M=3.7
0.6 0.07 0.06 R
Rsd 0.5s 8ph/5stn Dmin 72km Az.gap 154°
Corr. 0.805 9M/5stn Msd 0.2

92/6653
JUN 21 1808 45.5s 37.56S 176.98E 5km M=3.5
0.1 0.01 0.01 R
Rsd 0.2s 13ph/8stn Dmin 18km Az.gap 131°
Corr. 0.227 4M/4stn Msd 0.2

92/6654
JUN 21 1809 29.9s 37.57S 176.91E 5km M=4.3
0.3 0.03 0.02 R
Rsd 0.4s 23ph/21stn Dmin 25km Az.gap 129°
Corr. -0.285 10M/6stn Msd 0.2

92/6655
JUN 21 1810 58.7s 37.57S 177.03E 5km M=3.8
0.5 0.04 0.03 R
Rsd 0.6s 12ph/9stn Dmin 15km Az.gap 144°
Corr. 0.019 10M/6stn Msd 0.2

92/6656
JUN 21 1811 55.3s 37.68S 176.92E 5km M=3.6
0.3 0.03 0.03 R
Rsd 0.6s 12ph/9stn Dmin 29km Az.gap 101°
Corr. -0.543 9M/6stn Msd 0.2

92/6657
JUN 21 1813 18.1s 37.72S 176.84E 5km M=3.5
0.2 0.02 0.03 R
Rsd 0.2s 6ph/6stn Dmin 34km Az.gap 185°
Corr. -0.863 5M/3stn Msd 0.2

92/6658
JUN 21 1813 43.4s 37.66S 176.90E 5km M=3.8
0.5 0.03 0.05 R
Rsd 0.5s 11ph/7stn Dmin 30km Az.gap 105°
Corr. 0.122 6M/4stn Msd 0.1

92/6659
JUN 21 1814 25.3s 37.71S 176.99E 5km M=3.6
0.3 0.03 0.02 R
Rsd 0.3s 11ph/8stn Dmin 27km Az.gap 164°
Corr. -0.594 8M/4stn Msd 0.2

92/6660
JUN 21 1815 52.8s 37.63S 176.88E 5km M=3.6
0.2 0.01 0.01 R
Rsd 0.2s 15ph/11stn Dmin 30km Az.gap 115°
Corr. -0.249 15M/9stn Msd 0.2

92/6661
JUN 21 1816 16.2s 37.75S 176.86E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.1s 17ph/13stn Dmin 31km Az.gap 94°
Corr. -0.322 14M/10stn Msd 0.3

92/6666
JUN 21 1819 08.4s 37.57S 176.93E 12km M=3.6
0.4 0.04 0.04 R
Rsd 0.5s 9ph/6stn Dmin 78km Az.gap 142°
Corr. 0.617 10M/7stn Msd 0.3

92/6667
JUN 21 1819 19.8s 37.58S 176.96E 12km M=3.7
0.2 0.03 0.03 R
Rsd 0.4s 9ph/6stn Dmin 108km Az.gap 141°
Corr. 0.656 9M/7stn Msd 0.3

92/6668
JUN 21 1820 40.8s 37.62S 176.96E 5km M=4.0
0.2 0.02 0.02 R
Rsd 0.3s 15ph/13stn Dmin 23km Az.gap 112°
Corr. 0.108 21M/16stn Msd 0.2

92/6669
JUN 21 1821 22.2s 37.77S 176.86E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.1s 16ph/11stn Dmin 29km Az.gap 124°
Corr. -0.130 11M/9stn Msd 0.2

92/6674
JUN 21 1828 41.4s 37.75S 177.01E 5km M=3.7
0.2 0.02 0.01 R
Rsd 0.2s 18ph/15stn Dmin 39km Az.gap 128°
Corr. -0.273 17M/13stn Msd 0.2

92/6684
JUN 21 1842 06.4s 37.63S 176.89E 5km M=3.5
0.2 0.02 0.02 R
Rsd 0.3s 10ph/8stn Dmin 29km Az.gap 114°
Corr. -0.555 5M/4stn Msd 0.1

92/6685
JUN 21 1842 28.0s 37.57S 176.87E 5km M=4.1
0.3 0.02 0.02 R
Rsd 0.3s 11ph/8stn Dmin 28km Az.gap 131°
Corr. -0.426 8M/5stn Msd 0.2

92/6686
JUN 21 1847 03.8s 37.60S 176.92E 5km M=4.3
0.2 0.02 0.02 R
Rsd 0.4s 20ph/16stn Dmin 25km Az.gap 121°
Corr. -0.038 8M/4stn Msd 0.1

92/6688
JUN 21 1852 33.4s 37.70S 176.80E 5km M=3.5
0.2 0.02 0.02 R
Rsd 0.3s 14ph/10stn Dmin 34km Az.gap 129°
Corr. -0.085 7M/7stn Msd 0.3

92/6693
JUN 21 1903 58.1s 37.58S 177.09E 5km M=3.8
0.3 0.03 0.02 R
Rsd 0.3s 14ph/10stn Dmin 11km Az.gap 144°
Corr. -0.036 8M/8stn Msd 0.4

92/6695
JUN 21 1906 28.8s 37.55S 176.94E 5km M=4.2
0.4 0.04 0.02 R
Rsd 0.5s 19ph/15stn Dmin 22km Az.gap 134°
Corr. -0.219 21M/17stn Msd 0.2

92/6696
JUN 21 1908 54.4s 37.60S 176.96E 5km M=3.5
0.2 0.02 0.02 R
Rsd 0.3s 14ph/10stn Dmin 22km Az.gap 119°
Corr. -0.383 9M/7stn Msd 0.2

92/6698
JUN 21 1913 10.5s 37.60S 176.98E 5km M=4.3
0.1 0.01 0.01 R
Rsd 0.2s 18ph/15stn Dmin 20km Az.gap 117°
Corr. -0.297 8M/4stn Msd 0.2

92/6699
JUN 21 1914 55.9s 37.59S 176.95E 5km M=3.7
0.3 0.03 0.03 R
Rsd 0.2s 8ph/6stn Dmin 22km Az.gap 206°
Corr. -0.855 2M/2stn Msd 0.1

92/6701
JUN 21 1917 57.3s 37.43S 176.95E 12km M=3.6
0.5 0.09 0.08 R
Rsd 0.4s 5ph/4stn Dmin 121km Az.gap 160°
Corr. 0.805 4M/4stn Msd 0.2

92/6703
JUN 21 1924 20.4s 37.56S 176.96E 5km M=4.0
0.2 0.02 0.01 R
Rsd 0.3s 18ph/15stn Dmin 54km Az.gap 144°
Corr. -0.020 19M/15stn Msd 0.2

92/6704
JUN 21 1926 20.7s 37.64S 176.93E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.2s 13ph/10stn Dmin 26km Az.gap 109°
Corr. -0.155 7M/5stn Msd 0.2

92/6705
JUN 21 1929 56.3s 37.61S 176.91E 5km M=3.6
1.2 0.03 0.02 11
Rsd 0.3s 14ph/11stn Dmin 26km Az.gap 119°
Corr. -0.490 10M/8stn Msd 0.2

92/6706
JUN 21 1931 30.9s 37.66S 176.83E 5km M=3.9
0.2 0.02 0.01 R
Rsd 0.3s 14ph/12stn Dmin 35km Az.gap 109°
Corr. -0.486 10M/7stn Msd 0.2

92/6707
JUN 21 1932 37.8s 37.59S 176.87E 5km M=3.5
0.6 0.05 0.04 R
Rsd 0.5s 9ph/7stn Dmin 48km Az.gap 139°
Corr. -0.377 4M/4stn Msd 0.2

92/6709
JUN 21 1936 00.9s 37.71S 176.83E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.2s 15ph/12stn Dmin 34km Az.gap 101°
Corr. -0.594 12M/9stn Msd 0.2

92/6710
JUN 21 1938 02.2s 37.59S 176.96E 9km M=3.7
0.5 0.02 0.02 5
Rsd 0.3s 14ph/11stn Dmin 22km Az.gap 120°
Corr. -0.030 9M/8stn Msd 0.3

92/6711
JUN 21 1938 42.3s 37.73S 176.83E 5km M=3.5
0.2 0.01 0.02 R
Rsd 0.3s 12ph/10stn Dmin 31km Az.gap 97°
Corr. -0.291 4M/4stn Msd 0.2

92/6712
JUN 21 1939 01.6s 37.61S 176.89E 5km M=3.7
0.2 0.01 0.01 R
Rsd 0.2s 10ph/7stn Dmin 46km Az.gap 138°
Corr. 0.079 9M/7stn Msd 0.2

92/6714
JUN 21 1947 40.5s 37.61S 176.95E 1km M=3.6
0.3 0.02 0.01 2
Rsd 0.3s 16ph/12stn Dmin 23km Az.gap 115°
Corr. -0.005 15M/13stn Msd 0.2

92/6721
JUN 21 2009 55.5s 37.61S 176.97E 5km M=3.6
0.2 0.02 0.01 R
Rsd 0.3s 16ph/11stn Dmin 21km Az.gap 116°
Corr. 0.020 15M/13stn Msd 0.2

92/6725
JUN 21 2022 59.6s 44.33S 166.87E 200km M=4.4
0.6 0.06 0.08 R
Rsd 0.1s 10ph/10stn Dmin 92km Az.gap 277°
Corr. -0.762 16M/14stn Msd 0.4 1↑

92/6732
JUN 21 2035 12.4s 37.65S 176.84E 5km M=4.2
0.3 0.02 0.02 R
Rsd 0.4s 20ph/17stn Dmin 33km Az.gap 111°
Corr. -0.116 8M/4stn Msd 0.1 1↑

92/6733
JUN 21 2039 38.3s 37.53S 176.97E 5km M=4.5
0.2 0.02 0.01 R
Rsd 0.3s 22ph/16stn Dmin 19km Az.gap 144°
Corr. -0.018 8M/4stn Msd 0.2

92/6734
JUN 21 2040 25.9s 37.58S 177.07E 5km M=4.0
0.2 0.02 0.01 R
Rsd 0.2s 13ph/11stn Dmin 12km Az.gap 115°
Corr. -0.424 7M/6stn Msd 0.3

92/6737
JUN 21 2047 17.7s 37.61S 177.04E 5km M=3.8
0.4 0.03 0.02 R
Rsd 0.4s 16ph/13stn Dmin 16km Az.gap 105°
Corr. -0.527 18M/15stn Msd 0.3

92/6738
JUN 21 2048 02.9s 37.68S 176.82E 5km M=3.6
0.3 0.02 0.03 R
Rsd 0.4s 10ph/9stn Dmin 36km Az.gap 106°
Corr. -0.492 10M/10stn Msd 0.2 1↑

92/6740
JUN 21 2049 36.7s 37.60S 176.97E 5km M=4.1
0.1 0.01 0.01 R
Rsd 0.2s 20ph/17stn Dmin 21km Az.gap 117°
Corr. -0.242 8M/4stn Msd 0.2

92/6741
JUN 21 2050 06.3s 37.59S 176.97E 5km M=4.0
0.7 0.07 0.04 R
Rsd 0.4s 11ph/9stn Dmin 20km Az.gap 124°
Corr. -0.723 8M/8stn Msd 0.3

92/6742
JUN 21 2051 08.9s 37.54S 176.96E 5km M=3.8
0.3 0.03 0.02 R
Rsd 0.3s 16ph/12stn Dmin 20km Az.gap 138°
Corr. -0.313 9M/9stn Msd 0.3

92/6743
JUN 21 2051 57.7s 37.59S 176.92E 5km M=3.7
0.3 0.02 0.02 R
Rsd 0.4s 16ph/12stn Dmin 24km Az.gap 123°
Corr. -0.242 16M/14stn Msd 0.2

92/6744
JUN 21 2052 59.8s 37.55S 176.93E 5km M=3.5
0.3 0.02 0.02 R
Rsd 0.3s 13ph/9stn Dmin 23km Az.gap 136°
Corr. 0.088 9M/7stn Msd 0.2

92/6745
JUN 21 2054 08.2s 37.52S 176.99E 5km M=4.1
0.2 0.02 0.01 R
Rsd 0.3s 17ph/12stn Dmin 17km Az.gap 145°
Corr. -0.291 13M/9stn Msd 0.2

92/6746
JUN 21 2055 42.5s 37.57S 177.01E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.2s 11ph/8stn Dmin 16km Az.gap 125°
Corr. -0.566 8M/6stn Msd 0.2

92/6747
JUN 21 2056 10.3s 37.64S 176.97E 5km M=4.0
0.2 0.02 0.02 R
Rsd 0.3s 13ph/10stn Dmin 23km Az.gap 106°
Corr. -0.121 11M/8stn Msd 0.2

92/6748
JUN 21 2103 37.9s 37.72S 176.95E 12km M=3.7
0.1 0.02 0.02 R
Rsd 0.1s 7ph/4stn Dmin 120km Az.gap 177°
Corr. 0.832 5M/5stn Msd 0.2

92/6752
JUN 21 2108 44.0s 37.62S 176.94E 5km M=3.6
0.3 0.03 0.02 R
Rsd 0.3s 14ph/11stn Dmin 25km Az.gap 115°
Corr. -0.314 11M/9stn Msd 0.2

92/6755
JUN 21 2111 38.2s 37.74S 176.85E 5km M=3.8
0.3 0.02 0.01 R
Rsd 0.3s 19ph/16stn Dmin 32km Az.gap 127°
Corr. -0.346 14M/14stn Msd 0.2

92/6756
JUN 21 2111 59.4s 37.59S 177.01E 5km M=4.5
0.3 0.03 0.02 R
Rsd 0.2s 18ph/15stn Dmin 17km Az.gap 116°
Corr. -0.578 22M/17stn Msd 0.3

92/6758
JUN 21 2116 37.6s 37.58S 177.07E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.2s 12ph/10stn Dmin 12km Az.gap 114°
Corr. -0.352 6M/4stn Msd 0.2

92/6764
JUN 21 2145 05.5s 37.68S 176.83E 5km M=3.7
0.2 0.02 0.01 R
Rsd 0.4s 18ph/14stn Dmin 36km Az.gap 106°
Corr. -0.439 18M/15stn Msd 0.2

92/6767
JUN 21 2159 30.9s 37.56S 176.96E 5km M=4.3
0.2 0.02 0.01 R
Rsd 0.3s 21ph/17stn Dmin 20km Az.gap 131°
Corr. 0.044 20M/14stn Msd 0.3

92/6776
JUN 21 2232 37.3s 37.49S 176.99E 5km M=3.6
0.2 0.02 0.01 R
Rsd 0.2s 14ph/11stn Dmin 18km Az.gap 150°
Corr. -0.127 11M/9stn Msd 0.2

92/6781
JUN 21 2243 15.8s 37.66S 176.89E 5km M=4.1
0.2 0.02 0.01 R
Rsd 0.3s 21ph/14stn Dmin 30km Az.gap 107°
Corr. -0.117 22M/16stn Msd 0.2

92/6784
JUN 21 2249 42.2s 37.64S 176.82E 5km M=4.0
0.2 0.02 0.02 R
Rsd 0.3s 22ph/16stn Dmin 35km Az.gap 114°
Corr. -0.019 19M/15stn Msd 0.2

92/6793
JUN 21 2312 55.0s 37.59S 176.99E 5km M=4.1
0.1 0.01 0.01 R
Rsd 0.2s 17ph/14stn Dmin 19km Az.gap 118°
Corr. -0.091 17M/14stn Msd 0.4

92/6806
JUN 22 0008 23.8s 37.48S 177.05E 5km M=4.2
0.3 0.02 0.01 R
Rsd 0.3s 21ph/16stn Dmin 13km Az.gap 153°
Corr. -0.023 21M/17stn Msd 0.3

92/6809
JUN 22 0020 13.7s 37.59S 176.91E 5km M=3.9
0.3 0.02 0.02 R
Rsd 0.3s 11ph/8stn Dmin 49km Az.gap 164°
Corr. 0.273 7M/5stn Msd 0.3

92/6827
JUN 22 0208 31.1s 37.55S 177.04E 5km M=4.2
0.3 0.02 0.01 R
Rsd 0.3s 20ph/16stn Dmin 13km Az.gap 134°
Corr. -0.273 22M/16stn Msd 0.2 1↑

92/6830
JUN 22 0213 58.3s 37.54S 177.01E 5km M=4.5
0.3 0.02 0.01 R
Rsd 0.2s 22ph/19stn Dmin 16km Az.gap 138°
Corr. -0.301 31M/27stn Msd 0.3

92/6831
JUN 22 0215 53.2s 37.73S 177.08E 5km M=3.6
0.2 0.03 0.01 R
Rsd 0.2s 13ph/12stn Dmin 45km Az.gap 180°
Corr. -0.617 5M/5stn Msd 0.1

92/6833
JUN 22 0216 37.5s 37.79S 177.19E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.3s 10ph/8stn Dmin 29km Az.gap 109°
Corr. -0.152 5M/5stn Msd 0.2

92/6835
JUN 22 0219 01.6s 37.57S 177.05E 5km M=4.0
0.3 0.02 0.02 R
Rsd 0.5s 19ph/14stn Dmin 13km Az.gap 122°
Corr. -0.045 9M/6stn Msd 0.1

92/6836
JUN 22 0219 56.5s 37.57S 177.03E 5km M=4.0
0.3 0.03 0.02 R
Rsd 0.4s 11ph/9stn Dmin 15km Az.gap 123°
Corr. -0.084 8M/5stn Msd 0.1

92/6842
JUN 22 0228 09.6s 37.54S 177.03E 5km M=4.5
0.2 0.02 0.01 R
Rsd 0.3s 25ph/22stn Dmin 14km Az.gap 140°
Corr. 0.112 24M/18stn Msd 0.2

92/6843
JUN 22 0228 57.7s 37.77S 177.06E 5km M=3.7
0.4 0.05 0.02 R
Rsd 0.2s 10ph/8stn Dmin 42km Az.gap 195°
Corr. -0.656 5M/5stn Msd 0.2

92/6845
JUN 22 0236 17.1s 37.59S 177.00E 5km M=3.7
0.4 0.04 0.02 R
Rsd 0.5s 16ph/12stn Dmin 18km Az.gap 117°
Corr. -0.311 6M/6stn Msd 0.3

92/6846
JUN 22 0236 48.5s 37.71S 177.05E 5km M=3.6
0.3 0.03 0.01 R
Rsd 0.3s 14ph/9stn Dmin 45km Az.gap 159°
Corr. -0.047 8M/6stn Msd 0.2

92/6848
JUN 22 0244 16.9s 37.53S 176.91E 5km M=3.5
0.4 0.03 0.02 R
Rsd 0.4s 18ph/13stn Dmin 25km Az.gap 140°
Corr. -0.017 10M/8stn Msd 0.2

92/6850
JUN 22 0251 13.8s 37.68S 177.03E 5km M=4.2
0.2 0.02 0.01 R
Rsd 0.2s 22ph/15stn Dmin 22km Az.gap 135°
Corr. 0.042 21M/17stn Msd 0.2

92/6851
JUN 22 0257 16.6s 37.56S 177.02E 5km M=3.7
0.4 0.04 0.02 R
Rsd 0.5s 16ph/13stn Dmin 15km Az.gap 131°
Corr. -0.270 10M/8stn Msd 0.2

92/6856
JUN 22 0318 04.4s 37.62S 177.06E 5km M=3.5
0.2 0.02 0.01 R
Rsd 0.4s 13ph/10stn Dmin 15km Az.gap 99°
Corr. -0.211 9M/7stn Msd 0.3

92/6857
JUN 22 0319 58.2s 37.61S 176.95E 5km M=3.8
0.2 0.01 0.01 R
Rsd 0.3s 18ph/14stn Dmin 23km Az.gap 114°
Corr. 0.117 18M/14stn Msd 0.2

92/6886
JUN 22 0628 35.8s 37.56S 177.03E 5km M=3.7
0.2 0.02 0.01 R
Rsd 0.3s 22ph/15stn Dmin 15km Az.gap 127°
Corr. -0.160 15M/13stn Msd 0.2

92/6913
JUN 22 0923 42.4s 37.55S 177.01E 5km M=3.5
0.2 0.02 0.02 R
Rsd 0.4s 16ph/11stn Dmin 16km Az.gap 136°
Corr. -0.137 8M/8stn Msd 0.2

92/6930
JUN 22 1119 45.9s 37.67S 176.81E 5km M=3.9
0.2 0.01 0.01 R
Rsd 0.3s 28ph/17stn Dmin 37km Az.gap 109°
Corr. -0.092 19M/14stn Msd 0.2

92/6936
JUN 22 1236 41.2s 37.67S 176.82E 5km M=3.8
0.2 0.01 0.01 R
Rsd 0.2s 25ph/17stn Dmin 36km Az.gap 108°
Corr. -0.463 17M/13stn Msd 0.2 1↑

92/6938
JUN 22 1259 26.1s 37.60S 176.88E 5km M=3.5
0.2 0.02 0.01 R
Rsd 0.3s 22ph/13stn Dmin 29km Az.gap 123°
Corr. -0.195 8M/8stn Msd 0.3

92/6943
JUN 22 1347 56.4s 37.53S 177.06E 5km M=4.9
0.2 0.02 0.01 R
Rsd 0.4s 22ph/18stn Dmin 11km Az.gap 141°
Corr. 0.007 8M/4stn Msd 0.2 1↑

92/6944
JUN 22 1349 56.4s 37.61S 177.08E 5km M=3.8
0.2 0.02 0.01 R
Rsd 0.3s 20ph/14stn Dmin 55km Az.gap 142°
Corr. -0.133 8M/6stn Msd 0.4

92/6949
JUN 22 1400 43.3s 37.55S 177.14E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.4s 13ph/9stn Dmin 5km Az.gap 118°
Corr. -0.180 9M/7stn Msd 0.2

92/6950
JUN 22 1404 57.2s 37.53S 177.05E 5km M=4.1
0.2 0.02 0.01 R
Rsd 0.3s 18ph/15stn Dmin 12km Az.gap 143°
Corr. 0.172 20M/15stn Msd 0.3

92/6955
JUN 22 1417 31.7s 37.69S 176.85E 5km M=3.6
0.2 0.01 0.01 R
Rsd 0.3s 17ph/13stn Dmin 36km Az.gap 130°
Corr. 0.148 9M/9stn Msd 0.2 1↑

92/6961
JUN 22 1455 40.2s 37.57S 177.04E 5km M=4.7
0.2 0.02 0.01 R
Rsd 0.3s 22ph/18stn Dmin 14km Az.gap 120°
Corr. -0.001 8M/4stn Msd 0.3

92/6962
JUN 22 1457 47.8s 37.66S 176.97E 5km M=3.5
0.3 0.02 0.02 R
Rsd 0.3s 10ph/7stn Dmin 45km Az.gap 135°
Corr. -0.033 4M/4stn Msd 0.4

92/6967
JUN 22 1504 35.3s 37.55S 177.05E 5km M=4.2
0.1 0.01 0.01 R
Rsd 0.2s 21ph/15stn Dmin 59km Az.gap 147°
Corr. 0.233 20M/14stn Msd 0.2

92/6970
JUN 22 1515 02.5s 37.49S 177.06E 5km M=3.8
0.2 0.02 0.02 R
Rsd 0.4s 17ph/13stn Dmin 12km Az.gap 151°
Corr. 0.256 11M/8stn Msd 0.2

92/6978
JUN 22 1534 01.0s 37.91S 176.89E 5km M=3.5
0.4 0.04 0.02 R
Rsd 0.5s 12ph/6stn Dmin 20km Az.gap 138°
Corr. -0.042 3M/3stn Msd 0.1

92/6996
JUN 22 1709 41.1s 37.64S 176.75E 5km M=3.7
0.2 0.02 0.02 R
Rsd 0.4s 17ph/12stn Dmin 39km Az.gap 115°
Corr. -0.064 7M/7stn Msd 0.2 1↑

92/7016
JUN 22 2211 06.9s 37.58S 176.92E 5km M=4.2
0.2 0.02 0.02 R
Rsd 0.4s 17ph/15stn Dmin 25km Az.gap 125°
Corr. 0.058 8M/4stn Msd 0.1

92/7022
JUN 22 2322 40.6s 37.65S 176.84E 5km M=3.6
0.2 0.01 0.01 R
Rsd 0.3s 17ph/12stn Dmin 34km Az.gap 112°
Corr. -0.222 11M/8stn Msd 0.2

92/7023
JUN 22 2333 24.7s 37.58S 176.85E 5km M=4.0
0.3 0.03 0.02 R
Rsd 0.4s 15ph/12stn Dmin 31km Az.gap 126°
Corr. -0.539 12M/8stn Msd 0.2

92/7027
JUN 23 0017 19.8s 37.62S 176.92E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.4s 13ph/10stn Dmin 26km Az.gap 116°
Corr. -0.609 8M/6stn Msd 0.2

92/7037
JUN 23 0522 53.7s 37.53S 177.04E 5km M=3.6
0.3 0.02 0.02 R
Rsd 0.4s 16ph/12stn Dmin 14km Az.gap 142°
Corr. -0.157 10M/8stn Msd 0.2

92/7044
JUN 23 0652 01.7s 39.18S 174.85E 261km M=3.5
0.4 0.08 0.05 7
Rsd 0.1s 17ph/11stn Dmin 69km Az.gap 294°
Corr. -0.613 8M/7stn Msd 0.2 1↑

92/7048
JUN 23 0821 57.3s 37.65S 176.81E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.3s 13ph/9stn Dmin 36km Az.gap 112°
Corr. -0.551 9M/7stn Msd 0.3 1↓

92/7057
JUN 23 1017 49.6s 38.79S 178.20E 28km M=4.1
0.6 0.03 0.04 2
Rsd 0.2s 18ph/16stn Dmin 24km Az.gap 215°
Corr. -0.840 28M/24stn Msd 0.3 2↑ 1↓
Felt Ormond (44) MM4.

92/7083
JUN 23 1834 26.1s 37.65S 177.00E 5km M=3.8
0.4 0.04 0.02 R
Rsd 0.5s 15ph/12stn Dmin 22km Az.gap 101°
Corr. -0.535 12M/10stn Msd 0.2

92/7097
JUN 23 2226 58.3s 37.60S 176.83E 5km M=4.4
0.4 0.03 0.02 R
Rsd 0.3s 18ph/14stn Dmin 32km Az.gap 182°
Corr. -0.504 16M/11stn Msd 0.3 1↑
Felt Pukehina (27).

92/7105
JUN 24 0218 57.0s 37.83S 176.78E 5km M=3.5
0.2 0.02 0.01 R
Rsd 0.2s 13ph/9stn Dmin 20km Az.gap 140°
Corr. -0.436 8M/6stn Msd 0.2

92/7108
JUN 24 0318 32.5s 37.70S 176.87E 5km M=3.9
0.2 0.02 0.01 R
Rsd 0.2s 17ph/13stn Dmin 34km Az.gap 107°
Corr. -0.648 14M/11stn Msd 0.2 1↑

92/7111
JUN 24 0349 22.8s 39.13S 175.17E 179km M=3.7
0.2 0.02 0.02 2
Rsd 0.1s 20ph/17stn Dmin 77km Az.gap 209°
Corr. -0.118 14M/12stn Msd 0.3 1↑

92/7123
JUN 24 1210 28.1s 37.20S 176.56E 254km M=3.8
1.3 0.10 0.18 19
Rsd 0.3s 12ph/10stn Dmin 161km Az.gap 263°
Corr. -0.934 8M/8stn Msd 0.3

92/7127
JUN 24 1321 18.6s 37.65S 176.96E 5km M=3.5
0.3 0.03 0.02 R
Rsd 0.3s 15ph/11stn Dmin 25km Az.gap 108°
Corr. -0.512 9M/7stn Msd 0.2

92/7129
JUN 24 1337 47.1s 37.65S 176.96E 5km M=4.1
0.4 0.03 0.02 R
Rsd 0.4s 19ph/15stn Dmin 24km Az.gap 109°
Corr. -0.430 13M/11stn Msd 0.3

92/7130
JUN 24 1338 42.6s 37.71S 176.83E 5km M=3.5
0.2 0.02 0.02 R
Rsd 0.3s 13ph/8stn Dmin 33km Az.gap 156°
Corr. -0.699 5M/4stn Msd 0.2

92/7131
JUN 24 1342 19.7s 37.64S 176.93E 5km M=3.7
0.3 0.03 0.01 R
Rsd 0.3s 16ph/12stn Dmin 26km Az.gap 115°
Corr. -0.625 9M/7stn Msd 0.2

92/7134
JUN 24 1412 52.3s 37.95S 176.26E 189km M=3.9
1.0 0.09 0.15 18
Rsd 0.4s 14ph/10stn Dmin 123km Az.gap 234°
Corr. -0.930 17M/17stn Msd 0.3

92/7140
JUN 24 1808 52.0s 39.18S 175.16E 141km M=4.3
0.4 0.01 0.02 4
Rsd 0.2s 31ph/25stn Dmin 38km Az.gap 77°
Corr. 0.009 25M/19stn Msd 0.2 1↑

92/7143
JUN 24 1949 05.2s 37.64S 176.88E 5km M=3.7
0.2 0.02 0.01 R
Rsd 0.2s 13ph/9stn Dmin 30km Az.gap 116°
Corr. -0.656 9M/7stn Msd 0.2

92/7149
JUN 24 2154 18.0s 41.62S 174.27E 7km M=3.7
0.1 0.01 0.01 2
Rsd 0.2s 26ph/21stn Dmin 15km Az.gap 123°
Corr. -0.535 9M/5stn Msd 0.1 4↑ 2↓

92/7150
JUN 24 2223 28.0s 37.64S 176.95E 5km M=3.9
0.2 0.02 0.02 R
Rsd 0.3s 15ph/13stn Dmin 25km Az.gap 108°
Corr. -0.490 11M/9stn Msd 0.2

92/7153
JUN 24 2335 03.9s 37.60S 176.84E 12km M=4.2
0.2 0.02 0.01 R
Rsd 0.3s 17ph/15stn Dmin 32km Az.gap 123°
Corr. 0.099 9M/5stn Msd 0.1 1↑

92/7155
JUN 25 0046 13.2s 38.29S 176.42E 5km M=3.1
0.0 0.00 0.00 R
Rsd 0.1s 10ph/6stn Dmin 10km Az.gap 148°
Corr. -0.136 3M/3stn Msd 0.3
Felt Waimangu (33).

92/7163
JUN 25 0444 33.3s 38.71S 175.86E 134km M=4.6
0.4 0.02 0.02 4
Rsd 0.3s 38ph/24stn Dmin 43km Az.gap 53°
Corr. -0.065 10M/5stn Msd 0.3 12↑ 3↓

92/7168
JUN 25 0707 32.4s 37.47S 179.98E 33km M=4.1
0.6 0.05 0.05 R
Rsd 0.2s 11ph/6stn Dmin 149km Az.gap 293°
Corr. -0.041 11M/9stn Msd 0.5
Depth uncertain.

92/7174
JUN 25 0921 32.1s 38.13S 175.33E 170km M=3.6
0.5 0.04 0.11 13
Rsd 0.2s 14ph/9stn Dmin 157km Az.gap 262°
Corr. -0.895 8M/6stn Msd 0.2 1↓

92/7184
JUN 25 1444 34.0s 38.64S 175.86E 161km M=3.6
0.7 0.02 0.03 6
Rsd 0.3s 14ph/8stn Dmin 64km Az.gap 150°
Corr. -0.159 14M/13stn Msd 0.2 4↑ 1↓

92/7197
JUN 25 1912 16.0s 37.71S 176.84E 5km M=3.6
0.3 0.02 0.02 R
Rsd 0.5s 17ph/11stn Dmin 34km Az.gap 99°
Corr. -0.430 8M/6stn Msd 0.3 1↑

92/7203
JUN 25 2125 13.3s 36.91S 177.43E 151km M=3.6
0.3 0.06 0.03 6
Rsd 0.1s 5ph/3stn Dmin 148km Az.gap 320°
Corr. -0.289 2M/2stn Msd 0.1

92/7213
JUN 26 0407 29.6s 38.65S 175.79E 138km M=4.1
0.7 0.04 0.03 6
Rsd 0.4s 20ph/14stn Dmin 66km Az.gap 143°
Corr. -0.229 28M/23stn Msd 0.2 2↑ 2↓

92/7228
JUN 26 1008 37.0s 44.56S 169.62E 5km M=4.1
0.2 0.01 0.01 R
Rsd 0.2s 21ph/14stn Dmin 21km Az.gap 126°
Corr. -0.164 8M/4stn Msd 0.2 1↑ 7↓

92/7246
JUN 26 1455 00.5s 37.66S 176.95E 5km M=3.7
0.3 0.02 0.02 R
Rsd 0.5s 23ph/17stn Dmin 26km Az.gap 103°
Corr. -0.128 20M/15stn Msd 0.2 1↑

92/7263
JUN 26 2008 50.0s 38.13S 176.07E 157km M=3.9
0.4 0.02 0.03 4
Rsd 0.2s 12ph/10stn Dmin 92km Az.gap 99°
Corr. 0.077 20M/18stn Msd 0.2 1↑

92/7309
JUN 27 1528 29.5s 37.19S 176.86E 215km M=3.7
0.5 0.04 0.07 5
Rsd 0.2s 12ph/8stn Dmin 121km Az.gap 283°
Corr. -0.641 13M/13stn Msd 0.2

92/7312
JUN 27 1630 36.2s 37.69S 176.79E 5km M=3.7
0.2 0.02 0.02 R
Rsd 0.4s 21ph/16stn Dmin 35km Az.gap 107°
Corr. -0.041 21M/14stn Msd 0.3 1↑

92/7328
JUN 27 2315 09.4s 38.88S 177.97E 46km M=3.9
0.4 0.02 0.03 5
Rsd 0.2s 17ph/16stn Dmin 30km Az.gap 177°
Corr. -0.602 28M/22stn Msd 0.2 1↑

92/7337
JUN 28 0233 24.9s 40.43S 176.41E 30km M=3.9
0.1 0.01 0.01 1
Rsd 0.2s 36ph/28stn Dmin 19km Az.gap 166°
Corr. -0.629 33M/30stn Msd 0.2 3↑ 7↓

92/7343
JUN 28 0803 04.1s 37.04S 176.90E 217km M=3.7
0.3 0.01 0.02 2
Rsd 0.1s 11ph/8stn Dmin 110km Az.gap 207°
Corr. 0.586 12M/12stn Msd 0.2

92/7365
JUN 28 1739 38.9s 37.64S 176.97E 5km M=4.1
0.3 0.02 0.02 R
Rsd 0.4s 26ph/22stn Dmin 23km Az.gap 106°
Corr. -0.009 26M/20stn Msd 0.2 1↑
Felt Otamarakau (27) MM5.

92/7367
JUN 28 1741 44.0s 37.69S 176.97E 5km M=3.1
0.2 0.02 0.02 R
Rsd 0.5s 17ph/12stn Dmin 26km Az.gap 93°
Corr. -0.332 10M/8stn Msd 0.2
Felt Otamarakau (27) MM5.

92/7373
JUN 28 1837 43.8s 37.06S 177.56E 142km M=3.8
0.5 0.05 0.03 6
Rsd 0.3s 10ph/5stn Dmin 89km Az.gap 251°
Corr. -0.285 16M/12stn Msd 0.2 1↑

92/7386
JUN 28 1912 31.4s 38.33S 176.17E 5km M=3.0
0.2 0.01 0.01 R
Rsd 0.2s 10ph/7stn Dmin 9km Az.gap 133°
Corr. 0.287 6M/6stn Msd 0.2
Felt Waimangu (33).

92/7387
JUN 28 1913 07.2s 38.31S 176.19E 5km M=2.9
0.1 0.00 0.01 R
Rsd 0.1s 10ph/9stn Dmin 9km Az.gap 104°
Corr. 0.373 4M/4stn Msd 0.2
Felt Waimangu (33).

92/7388
JUN 28 1914 42.3s 38.31S 176.15E 5km M=3.0
0.2 0.01 0.01 R
Rsd 0.2s 9ph/6stn Dmin 12km Az.gap 129°
Corr. 0.217 3M/3stn Msd 0.1
Felt Ngakuru (33) MM4, Waimangu (33).

92/7390
JUN 28 1918 33.7s 38.32S 176.18E 5km M=3.0
0.1 0.01 0.01 R
Rsd 0.2s 15ph/12stn Dmin 9km Az.gap 104°
Corr. 0.365 12M/12stn Msd 0.2
Felt Ngakuru (33) MM4, Waimangu (33).

92/7395
JUN 28 1929 25.8s 38.31S 176.19E 5km M=3.0
0.1 0.01 0.01 R
Rsd 0.2s 9ph/6stn Dmin 10km Az.gap 115°
Corr. 0.346 5M/5stn Msd 0.3
Felt Ngakuru (33) MM4, Waimangu (33).

92/7397
JUN 28 1937 43.6s 38.31S 176.19E 5km M=3.6
0.1 0.00 0.01 R
Rsd 0.1s 15ph/14stn Dmin 10km Az.gap 84°
Corr. -0.009 20M/16stn Msd 0.3
Felt Ngakuru (33) MM4, Rotorua, Waimangu (33). Largest of many events felt in Rotorua area.

92/7419
JUN 28 2210 25.8s 38.35S 176.19E 5km M=2.8
0.3 0.02 0.02 R
Rsd 0.3s 8ph/5stn Dmin 7km Az.gap 136°
Corr. -0.250 4M/4stn Msd 0.1
Felt Ngakuru (33) MM4.

92/7421
JUN 28 2212 44.1s 38.30S 176.21E 5km M=3.1
0.1 0.00 0.01 R
Rsd 0.1s 7ph/5stn Dmin 10km Az.gap 104°
Corr. 0.238 3M/3stn Msd 0.2 1↑
Felt Ngakuru (33) MM4.

92/7430
JUN 28 2259 10.3s 38.32S 176.19E 5km M=2.5
0.1 0.01 0.01 R
Rsd 0.2s 12ph/9stn Dmin 9km Az.gap 102°
Corr. 0.365 6M/6stn Msd 0.3
Felt Ngakuru (33) MM4.

92/7519
JUN 29 1138 26.6s 39.00S 177.45E 46km M=3.6
0.3 0.01 0.02 7
Rsd 0.2s 12ph/10stn Dmin 43km Az.gap 95°
Corr. -0.097 9M/6stn Msd 0.3 1↑

92/7535
JUN 30 0354 06.0s 37.63S 176.79E 5km M=3.8
0.2 0.02 0.02 R
Rsd 0.3s 20ph/14stn Dmin 37km Az.gap 116°
Corr. -0.359 17M/11stn Msd 0.2

92/7544
JUN 30 1239 34.0s 40.45S 173.45E 139km M=3.8
0.3 0.01 0.02 3
Rsd 0.2s 26ph/19stn Dmin 56km Az.gap 138°
Corr. -0.039 17M/15stn Msd 0.3 1↑

92/7548
JUN 30 1519 06.0s 37.72S 176.98E 5km M=4.0
0.2 0.02 0.01 R
Rsd 0.3s 16ph/12stn Dmin 28km Az.gap 88°
Corr. -0.422 22M/16stn Msd 0.3 1↑

92/7560
JUL 01 0007 20.6s 40.37S 176.10E 50km M=3.6
0.1 0.01 0.01 1
Rsd 0.2s 32ph/23stn Dmin 14km Az.gap 89°
Corr. -0.594 22M/18stn Msd 0.4 5↑ 3↓

92/7561
JUL 01 0013 41.8s 37.50S 177.20E 135km M=4.5
0.4 0.02 0.02 3
Rsd 0.2s 31ph/25stn Dmin 4km Az.gap 150°
Corr. 0.291 8M/4stn Msd 0.2 9↑ 5↓

92/7582
JUL 01 0923 53.4s 37.73S 176.82E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.3s 21ph/13stn Dmin 31km Az.gap 98°
Corr. -0.221 12M/9stn Msd 0.2 1↑

92/7598
JUL 01 1908 48.8s 41.26S 172.57E 207km M=3.6
0.4 0.02 0.03 3
Rsd 0.2s 28ph/18stn Dmin 48km Az.gap 126°
Corr. -0.131 9M/9stn Msd 0.4 1↑

92/7604
JUL 01 2233 39.4s 37.73S 176.85E 5km M=3.7
0.2 0.01 0.01 R
Rsd 0.3s 20ph/14stn Dmin 32km Az.gap 96°
Corr. -0.264 17M/13stn Msd 0.2 1↑

92/7612
JUL 02 0153 36.5s 37.70S 176.82E 5km M=4.0
0.2 0.01 0.01 R
Rsd 0.2s 21ph/16stn Dmin 35km Az.gap 103°
Corr. 0.001 16M/12stn Msd 0.2 1↑

92/7639
JUL 03 0159 17.9s 38.14S 178.36E 22km M=3.5
0.4 0.02 0.03 2
Rsd 0.3s 8ph/4stn Dmin 12km Az.gap 213°
Corr. -0.103 8M/4stn Msd 0.3 1↑ 2↓

92/7643
JUL 03 0357 31.4s 37.72S 176.79E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.4s 22ph/16stn Dmin 32km Az.gap 101°
Corr. -0.307 14M/12stn Msd 0.1 1↑

92/7647
JUL 03 0656 16.9s 37.74S 176.93E 5km M=3.7
0.3 0.03 0.02 R
Rsd 0.4s 17ph/13stn Dmin 33km Az.gap 127°
Corr. -0.148 18M/13stn Msd 0.2 1↑ 1↓

92/7651
JUL 03 0729 49.2s 38.18S 176.11E 169km M=4.4
0.4 0.02 0.02 3
Rsd 0.3s 24ph/18stn Dmin 31km Az.gap 62°
Corr. 0.177 8M/4stn Msd 0.2 6↑ 1↓

92/7657
JUL 03 1129 30.0s 37.36S 177.22E 154km M=3.8
0.9 0.04 0.06 8
Rsd 0.5s 8ph/6stn Dmin 99km Az.gap 170°
Corr. 0.391 4M/4stn Msd 0.2 1↑

92/7662
JUL 03 1603 57.3s 37.49S 177.38E 120km M=4.0
0.4 0.02 0.02 5
Rsd 0.2s 18ph/16stn Dmin 82km Az.gap 159°
Corr. 0.235 21M/19stn Msd 0.2 1↑

92/7673
JUL 03 2228 37.2s 37.41S 176.69E 143km M=3.6
1.0 0.05 0.06 8
Rsd 0.4s 10ph/5stn Dmin 101km Az.gap 149°
Corr. 0.492 5M/5stn Msd 0.2

92/7674
JUL 03 2254 08.8s 37.75S 176.80E 5km M=4.1
0.2 0.02 0.02 R
Rsd 0.4s 24ph/18stn Dmin 29km Az.gap 96°
Corr. 0.195 23M/16stn Msd 0.2 1↓

92/7681
JUL 04 0408 09.0s 39.50S 177.68E 67km M=3.7
0.2 0.01 0.02 3
Rsd 0.2s 30ph/18stn Dmin 39km Az.gap 193°
Corr. -0.703 25M/21stn Msd 0.2 6↑ 2↓

92/7692
JUL 04 1121 52.6s 37.52S 176.62E 177km M=4.0
0.7 0.03 0.03 6
Rsd 0.3s 11ph/10stn Dmin 93km Az.gap 137°
Corr. 0.412 19M/17stn Msd 0.2 1↑ 3↓

92/7696
JUL 04 1732 22.0s 35.57S 178.50E 201km M=3.9
0.9 0.12 0.11 25
Rsd 0.2s 6ph/4stn Dmin 278km Az.gap 302°
Corr. 0.918 3M/3stn Msd 0.1 1↑

92/7697
JUL 04 1733 35.4s 39.04S 175.01E 209km M=3.7
0.3 0.02 0.03 3
Rsd 0.1s 17ph/14stn Dmin 53km Az.gap 217°
Corr. 0.088 8M/8stn Msd 0.3 1↑

92/7733
JUL 06 0325 49.0s 39.39S 177.42E 72km M=4.1
0.2 0.01 0.02 3
Rsd 0.2s 36ph/26stn Dmin 37km Az.gap 153°
Corr. -0.467 26M/20stn Msd 0.3 4↑ 1↓

92/7750
JUL 06 1546 45.5s 38.11S 176.29E 12km M=2.0
0.1 0.01 0.01 R
Rsd 0.1s 9ph/6stn Dmin 14km Az.gap 107°
Corr. 0.059 2M/2stn Msd 0.2
Felt Rotorua (33) MM4.

92/7755
JUL 06 1905 52.1s 37.82S 177.58E 50km M=4.9
0.2 0.01 0.01 2
Rsd 0.2s 26ph/23stn Dmin 47km Az.gap 115°
Corr. 0.085 8M/4stn Msd 0.2 7↑ 4↓
Felt Opotiki (35) MM3.

92/7769
JUL 07 0633 59.3s 36.07S 175.26E 12km M=3.6
0.4 0.03 0.03 R
Rsd 0.3s 10ph/7stn Dmin 84km Az.gap 189°
Corr. 0.781 2M/2stn Msd 0.3 1↓

92/7788
JUL 07 2316 24.8s 39.65S 174.42E 214km M=3.7
0.3 0.03 0.02 3
Rsd 0.1s 16ph/12stn Dmin 135km Az.gap 223°
Corr. -0.203 9M/9stn Msd 0.2

92/7789
JUL 08 0155 39.4s 36.91S 177.34E 214km M=4.0
0.7 0.07 0.08 6
Rsd 0.3s 9ph/4stn Dmin 151km Az.gap 314°
Corr. -0.508 3M/3stn Msd 0.1

92/7798
JUL 08 1225 27.7s 39.06S 174.40E 593km M=4.9
0.6 0.04 0.08 6
Rsd 0.1s 32ph/24stn Dmin 51km Az.gap 127°
Corr. -0.182 19M/15stn Msd 0.2 1↑

92/7801
JUL 08 1509 42.9s 40.16S 174.29E 87km M=3.8
0.3 0.01 0.01 4
Rsd 0.2s 31ph/24stn Dmin 68km Az.gap 99°
Corr. 0.111 14M/11stn Msd 0.3 1↑

92/7802
JUL 08 1544 00.2s 39.54S 174.41E 204km M=3.6
0.4 0.03 0.03 4
Rsd 0.2s 20ph/16stn Dmin 53km Az.gap 191°
Corr. -0.246 9M/8stn Msd 0.2

92/7809
JUL 09 0012 49.2s 40.18S 173.70E 163km M=3.9
0.4 0.02 0.02 4
Rsd 0.2s 30ph/21stn Dmin 71km Az.gap 182°
Corr. -0.216 17M/14stn Msd 0.3 6↑ 1↓

92/7822
JUL 09 0855 48.8s 38.32S 176.08E 145km M=4.0
0.7 0.03 0.03 6
Rsd 0.2s 13ph/9stn Dmin 91km Az.gap 187°
Corr. 0.396 16M/12stn Msd 0.3 1↑

92/7827
JUL 09 2005 52.6s 37.10S 177.36E 150km M=3.6
0.1 0.01 0.01 1
Rsd 0.1s 8ph/4stn Dmin 100km Az.gap 278°
Corr. -0.361 10M/9stn Msd 0.1

92/7839
JUL 10 0640 56.8s 38.38S 175.60E 133km M=3.5
0.4 0.03 0.07 8
Rsd 0.4s 20ph/14stn Dmin 133km Az.gap 237°
Corr. -0.816 8M/8stn Msd 0.2 1↓

92/7847
JUL 10 1229 30.3s 37.77S 176.71E 144km M=3.7
0.6 0.05 0.06 4
Rsd 0.2s 11ph/6stn Dmin 54km Az.gap 237°
Corr. -0.369 9M/9stn Msd 0.3 1↑

92/7874
JUL 11 0536 16.3s 37.32S 178.08E 79km M=3.9
0.3 0.02 0.02 4
Rsd 0.2s 11ph/7stn Dmin 37km Az.gap 254°
Corr. -0.136 8M/4stn Msd 0.1 1↑

92/7875
JUL 11 0727 48.9s 39.19S 173.71E 12km M=3.5
0.7 0.01 0.04 6
Rsd 0.2s 22ph/14stn Dmin 25km Az.gap 203°
Corr. 0.014 20M/16stn Msd 0.2 1↓

92/7877
JUL 11 0827 17.0s 38.50S 177.98E 64km M=4.2
0.2 0.01 0.02 2
Rsd 0.2s 20ph/14stn Dmin 14km Az.gap 131°
Corr. -0.139 23M/19stn Msd 0.2 3↑ 6↓

92/7879
JUL 11 1236 27.9s 47.77S 165.72E 33km M=3.7
0.5 0.03 0.05 R
Rsd 0.2s 17ph/11stn Dmin 208km Az.gap 325°
Corr. -0.080 9M/9stn Msd 0.2 1↓

92/7887
JUL 11 1715 30.6s 37.77S 177.55E 47km M=3.9
0.1 0.01 0.01 2
Rsd 0.1s 20ph/15stn Dmin 41km Az.gap 124°
Corr. 0.112 24M/20stn Msd 0.2 1↑ 1↓
Large crustal phase on Wellington net stations.

92/7904
JUL 12 0547 09.2s 42.67S 179.49E 33km M=4.1
0.6 0.04 0.05 R
Rsd 0.3s 29ph/22stn Dmin 344km Az.gap 254°
Corr. -0.559 25M/22stn Msd 0.4

92/7915
JUL 12 1347 15.8s 38.61S 176.37E 82km M=3.6
0.2 0.02 0.01 3
Rsd 0.2s 13ph/7stn Dmin 75km Az.gap 145°
Corr. -0.547 1M/1stn Msd 0.0 1↓

92/7924
JUL 12 1717 08.7s 37.70S 177.55E 60km M=3.5
0.4 0.02 0.02 6
Rsd 0.2s 13ph/9stn Dmin 37km Az.gap 138°
Corr. -0.177 14M/10stn Msd 0.2 1↑ 2↓

92/7925
JUL 12 1722 49.4s 35.15S 178.53E 150km M=3.9
0.8 0.19 0.08 44
Rsd 0.1s 7ph/3stn Dmin 325km Az.gap 344°
Corr. -0.742 2M/2stn Msd 0.1

92/7931
JUL 13 0314 13.3s 45.22S 167.05E 12km M=3.6
0.5 0.02 0.05 R
Rsd 0.2s 15ph/13stn Dmin 92km Az.gap 253°
Corr. -0.594 15M/13stn Msd 0.2

92/7933
JUL 13 0344 47.4s 38.22S 175.88E 12km M=2.6
0.0 0.00 0.00 R
Rsd 0.1s 9ph/4stn Dmin 28km Az.gap 133°
Corr. 0.357 3M/3stn Msd 0.1 1↑
Felt Tokoroa (32) MM4.

92/7944
JUL 13 0719 17.0s 38.23S 175.84E 5km M=2.7
0.2 0.01 0.01 R
Rsd 0.4s 11ph/8stn Dmin 31km Az.gap 90°
Corr. 0.087 6M/6stn Msd 0.2 1↑
Felt Tokoroa (32) MM4.

92/7945
JUL 13 0827 33.9s 37.26S 176.57E 240km M=4.3
0.6 0.06 0.06 4
Rsd 0.3s 15ph/11stn Dmin 121km Az.gap 262°
Corr. -0.559 22M/20stn Msd 0.3 1↑ 1↓

92/7962
JUL 13 1723 13.0s 39.87S 177.22E 26km M=3.6
0.2 0.01 0.02 1
Rsd 0.2s 25ph/22stn Dmin 37km Az.gap 180°
Corr. -0.668 33M/29stn Msd 0.3

92/7996
JUL 15 0612 34.0s 37.72S 176.97E 5km M=3.7
0.2 0.02 0.02 R
Rsd 0.4s 19ph/15stn Dmin 28km Az.gap 94°
Corr. -0.418 17M/13stn Msd 0.2 1↑

92/7997
JUL 15 0657 44.2s 38.13S 176.29E 150km M=3.8
0.6 0.04 0.03 5
Rsd 0.3s 16ph/14stn Dmin 23km Az.gap 206°
Corr. -0.234 22M/18stn Msd 0.3 1↑

92/8001
JUL 15 1224 01.5s 37.16S 177.35E 160km M=4.0
0.3 0.03 0.01 3
Rsd 0.1s 14ph/11stn Dmin 97km Az.gap 237°
Corr. 0.022 21M/19stn Msd 0.2 1↑

92/8002
JUL 15 1231 43.6s 38.35S 176.28E 135km M=4.0
0.6 0.02 0.02 5
Rsd 0.3s 18ph/15stn Dmin 39km Az.gap 68°
Corr. 0.141 24M/20stn Msd 0.4 5↑ 3↓

92/8006
JUL 15 1538 04.6s 40.26S 176.25E 68km M=3.7
0.2 0.01 0.02 3
Rsd 0.2s 30ph/23stn Dmin 40km Az.gap 139°
Corr. -0.734 21M/19stn Msd 0.2 5↑ 4↓

92/8009
JUL 16 0104 20.3s 39.18S 176.17E 70km M=3.6
0.4 0.01 0.01 5
Rsd 0.3s 27ph/21stn Dmin 49km Az.gap 63°
Corr. -0.087 22M/18stn Msd 0.2 2↑ 2↓

92/8017
JUL 16 0818 49.0s 37.42S 176.29E 163km M=3.7
0.9 0.08 0.14 7
Rsd 0.3s 11ph/8stn Dmin 118km Az.gap 288°
Corr. -0.467 15M/15stn Msd 0.3

92/8026
JUL 16 1431 56.2s 38.07S 176.17E 142km M=3.6
0.4 0.03 0.05 2
Rsd 0.1s 11ph/9stn Dmin 85km Az.gap 210°
Corr. -0.754 16M/16stn Msd 0.2

92/8028
JUL 16 1709 00.1s 38.72S 176.45E 62km M=3.6
0.2 0.01 0.01 2
Rsd 0.2s 31ph/25stn Dmin 19km Az.gap 44°
Corr. 0.112 19M/17stn Msd 0.2

92/8035
JUL 17 0026 11.3s 37.10S 177.31E 163km M=4.1
0.5 0.06 0.03 6
Rsd 0.2s 13ph/9stn Dmin 104km Az.gap 242°
Corr. 0.303 24M/20stn Msd 0.3 1↑

92/8040
JUL 17 0244 39.4s 38.42S 178.83E 26km M=3.6
0.4 0.01 0.03 3
Rsd 0.1s 12ph/10stn Dmin 64km Az.gap 249°
Corr. -0.369 26M/24stn Msd 0.2 1↑ 1↓

92/8082
JUL 18 1441 49.2s 39.25S 174.83E 178km M=3.8
0.5 0.02 0.04 4
Rsd 0.3s 26ph/17stn Dmin 62km Az.gap 96°
Corr. 0.301 24M/22stn Msd 0.2 6↑ 1↓

92/8106
JUL 19 1653 10.4s 37.19S 176.61E 249km M=4.0
0.3 0.06 0.05 4
Rsd 0.1s 12ph/8stn Dmin 127km Az.gap 273°
Corr. -0.551 8M/8stn Msd 0.3 1↑

92/8108
JUL 19 2039 28.4s 40.36S 174.84E 30km M=4.2
0.2 0.01 0.01 3
Rsd 0.2s 35ph/24stn Dmin 57km Az.gap 71°
Corr. 0.074 11M/6stn Msd 0.3 1↑
Felt Wanganui (57) to Otaki (65), maximum intensity MM4.

92/8115
JUL 20 1022 43.9s 36.90S 176.93E 217km M=3.7
0.4 0.05 0.05 4
Rsd 0.2s 12ph/7stn Dmin 144km Az.gap 282°
Corr. -0.389 9M/9stn Msd 0.3 1↑

92/8117
JUL 20 1126 56.5s 36.30S 178.44E 211km M=3.8
0.6 0.10 0.11 9
Rsd 0.2s 11ph/5stn Dmin 198km Az.gap 337°
Corr. -0.512 5M/4stn Msd 0.3

92/8119
JUL 20 1150 54.0s 41.19S 172.66E 0km M=3.5
0.2 0.01 0.02 R
Rsd 0.3s 19ph/12stn Dmin 42km Az.gap 155°
Corr. 0.523 21M/15stn Msd 0.2 1↓

92/8141
JUL 21 0711 39.8s 37.83S 177.55E 52km M=3.9
0.3 0.02 0.01 4
Rsd 0.2s 19ph/15stn Dmin 62km Az.gap 124°
Corr. 0.182 21M/17stn Msd 0.2 1↑ 3↓

92/8155
JUL 22 1353 03.1s 38.13S 176.27E 5km M=3.2
0.1 0.00 0.01 R
Rsd 0.2s 11ph/8stn Dmin 17km Az.gap 69°
Corr. -0.056 5M/5stn Msd 0.3 1↑
Felt Rotorua (33) MM4.

92/8176
JUL 23 1430 23.2s 38.15S 178.63E 37km M=3.7
0.1 0.00 0.01 1
Rsd 0.1s 12ph/8stn Dmin 33km Az.gap 242°
Corr. -0.438 9M/5stn Msd 0.1 1↓

92/8182
JUL 24 0403 29.2s 38.33S 175.74E 162km M=3.9
0.5 0.02 0.03 5
Rsd 0.2s 14ph/10stn Dmin 95km Az.gap 135°
Corr. -0.146 14M/14stn Msd 0.2 2↑ 2↓

92/8183
JUL 24 0453 14.5s 41.30S 173.04E 97km M=3.7
0.4 0.01 0.02 4
Rsd 0.3s 20ph/12stn Dmin 52km Az.gap 117°
Corr. -0.080 7M/7stn Msd 0.3 2↑ 1↓

92/8187
JUL 24 1253 33.6s 37.11S 177.44E 175km M=3.6
0.6 0.08 0.06 6
Rsd 0.3s 8ph/4stn Dmin 129km Az.gap 310°
Corr. -0.258 3M/3stn Msd 0.2 1↑

92/8190
JUL 24 1913 51.1s 38.07S 176.58E 134km M=3.6
0.9 0.06 0.08 6
Rsd 0.4s 13ph/9stn Dmin 51km Az.gap 260°
Corr. -0.629 4M/4stn Msd 0.2 1↑

92/8193
JUL 24 2041 51.5s 42.65S 172.98E 45km M=4.3
0.2 0.01 0.02 4
Rsd 0.2s 25ph/17stn Dmin 53km Az.gap 132°
Corr. -0.508 19M/15stn Msd 0.3 1↑ 1↓

92/8203
JUL 25 0617 31.2s 38.60S 175.92E 181km M=3.8
1.1 0.06 0.05 8
Rsd 0.1s 14ph/12stn Dmin 69km Az.gap 309°
Corr. 0.028 5M/5stn Msd 0.3

92/8206
JUL 25 0919 48.6s 37.54S 177.16E 144km M=3.8
0.3 0.02 0.02 3
Rsd 0.2s 20ph/14stn Dmin 81km Az.gap 150°
Corr. 0.194 18M/16stn Msd 0.2 1↑

92/8210
JUL 25 1236 25.8s 41.04S 177.85E 33km M=3.6
0.6 0.04 0.06 R
Rsd 0.2s 13ph/10stn Dmin 157km Az.gap 230°
Corr. -0.891 10M/10stn Msd 0.2

92/8221
JUL 26 0301 37.6s 38.35S 175.94E 167km M=4.2
0.6 0.03 0.03 5
Rsd 0.2s 17ph/13stn Dmin 61km Az.gap 104°
Corr. 0.406 21M/20stn Msd 0.3 9↑ 1↓

92/8226
JUL 26 0803 49.3s 38.97S 177.22E 31km M=3.8
0.1 0.01 0.01 2
Rsd 0.2s 27ph/25stn Dmin 19km Az.gap 86°
Corr. -0.052 28M/24stn Msd 0.2 1↑ 5↓

92/8232
JUL 26 0922 23.9s 41.16S 175.49E 32km M=4.4
0.1 0.01 0.02 1
Rsd 0.2s 26ph/21stn Dmin 1km Az.gap 109°
Corr. -0.660 13M/8stn Msd 0.3 7↑ 10↓
Felt Palmerston North (62) to Wellington (68), maximum intensity MM4 at Wellington.

92/8243
JUL 26 1853 58.8s 39.14S 175.09E 264km M=3.9
0.4 0.02 0.03 4
Rsd 0.1s 15ph/11stn Dmin 75km Az.gap 191°
Corr. -0.436 11M/11stn Msd 0.2 1↑ 1↓

92/8244
JUL 26 1929 21.5s 38.70S 178.39E 26km M=3.8
0.4 0.02 0.04 2
Rsd 0.1s 12ph/10stn Dmin 33km Az.gap 223°
Corr. -0.824 19M/15stn Msd 0.2

92/8245
JUL 26 2316 58.0s 41.78S 172.62E 81km M=3.7
0.2 0.01 0.02 2
Rsd 0.2s 24ph/16stn Dmin 24km Az.gap 128°
Corr. -0.091 10M/8stn Msd 0.3 1↑ 1↓

92/8262
JUL 28 0152 51.2s 36.88S 179.24W 33km M=5.1
2.0 0.11 0.19 R
Rsd 0.4s 16ph/14stn Dmin 232km Az.gap 241°
Corr. 0.060 12M/6stn Msd 0.1

92/8266
JUL 28 0602 18.9s 37.48S 178.47E 72km M=4.2
0.2 0.01 0.02 2
Rsd 0.1s 20ph/14stn Dmin 20km Az.gap 267°
Corr. 0.113 24M/20stn Msd 0.2 1↑ 4↓

92/8272
JUL 28 1647 35.4s 41.26S 172.73E 180km M=3.7
0.3 0.01 0.02 2
Rsd 0.2s 33ph/19stn Dmin 51km Az.gap 149°
Corr. -0.047 11M/11stn Msd 0.3 7↑ 1↓

92/8275
JUL 28 1758 52.6s 36.56S 177.22E 202km M=3.9
0.2 0.03 0.04 3
Rsd 0.1s 12ph/8stn Dmin 150km Az.gap 295°
Corr. -0.527 8M/8stn Msd 0.2 3↑ 1↓

92/8284
JUL 29 0606 25.8s 38.33S 175.43E 174km M=3.6
0.5 0.04 0.09 9
Rsd 0.3s 20ph/15stn Dmin 147km Az.gap 226°
Corr. -0.777 14M/14stn Msd 0.2

92/8293
JUL 29 1634 42.7s 37.94S 175.94E 173km M=3.7
0.6 0.03 0.05 4
Rsd 0.1s 11ph/8stn Dmin 108km Az.gap 244°
Corr. -0.641 17M/16stn Msd 0.2 2↑ 1↓

92/8294
JUL 29 1743 09.1s 38.88S 176.13E 86km M=3.6
0.3 0.01 0.01 4
Rsd 0.3s 25ph/17stn Dmin 32km Az.gap 102°
Corr. -0.116 19M/17stn Msd 0.2 2↑ 2↓

92/8299
JUL 29 2216 55.2s 35.41S 178.94E 249km M=4.1
0.2 0.04 0.05 4
Rsd 0.1s 12ph/8stn Dmin 249km Az.gap 342°
Corr. -0.516 5M/5stn Msd 0.2

92/8305
JUL 30 1026 33.2s 41.53S 172.97E 93km M=3.8
0.4 0.01 0.02 4
Rsd 0.3s 28ph/20stn Dmin 72km Az.gap 78°
Corr. -0.049 14M/10stn Msd 0.2 2↑ 3↓

92/8309
JUL 30 1812 18.7s 37.50S 178.22E 57km M=4.1
0.2 0.01 0.01 2
Rsd 0.1s 17ph/10stn Dmin 13km Az.gap 204°
Corr. 0.061 20M/16stn Msd 0.2

92/8311
JUL 30 2212 59.4s 44.35S 168.13E 5km M=4.5
0.2 0.01 0.01 R
Rsd 0.1s 20ph/14stn Dmin 40km Az.gap 200°
Corr. -0.789 10M/6stn Msd 0.2 1↑ 8↓

92/8312
JUL 31 0128 23.5s 40.61S 173.82E 87km M=4.0
0.3 0.01 0.01 5
Rsd 0.3s 37ph/25stn Dmin 22km Az.gap 107°
Corr. -0.079 16M/12stn Msd 0.3 7↑ 3↓

92/8330
JUL 31 1411 23.6s 40.59S 176.14E 36km M=5.2
0.1 0.01 0.01 2
Rsd 0.2s 41ph/35stn Dmin 11km Az.gap 89°
Corr. -0.395 8M/4stn Msd 0.3 7↑ 7↓
Felt Hawkes Bay and lower North Island, max. int. MM4.

92/8342
AUG 01 0231 12.2s 40.97S 175.46E 25km M=3.6
0.1 0.01 0.01 1
Rsd 0.2s 27ph/19stn Dmin 22km Az.gap 109°
Corr. -0.213 22M/19stn Msd 0.2 3↑ 2↓

92/8344
AUG 01 0328 00.2s 40.41S 173.86E 127km M=3.9
0.3 0.01 0.02 3
Rsd 0.2s 29ph/22stn Dmin 44km Az.gap 116°
Corr. 0.029 20M/15stn Msd 0.2 2↑ 2↓

92/8345
AUG 01 0433 04.5s 37.63S 176.82E 12km M=3.9
0.2 0.02 0.02 R
Rsd 0.4s 17ph/15stn Dmin 34km Az.gap 115°
Corr. 0.189 19M/13stn Msd 0.2 2↑ 1↓

92/8358
AUG 01 0913 48.9s 38.72S 175.55E 187km M=3.7
0.3 0.05 0.08 9
Rsd 0.2s 22ph/16stn Dmin 187km Az.gap 201°
Corr. -0.953 12M/12stn Msd 0.3

92/8361
AUG 01 0957 18.2s 36.48S 178.57E 33km M=3.6
0.8 0.05 0.07 R
Rsd 0.5s 8ph/5stn Dmin 127km Az.gap 287°
Corr. 0.471 6M/5stn Msd 0.2

92/8373
AUG 01 1753 27.8s 39.60S 174.78E 104km M=3.7
0.3 0.01 0.01 3
Rsd 0.2s 20ph/15stn Dmin 25km Az.gap 125°
Corr. 0.036 16M/13stn Msd 0.2 1↑

92/8375
AUG 01 1916 18.8s 40.54S 176.11E 38km M=4.1
0.1 0.01 0.01 1
Rsd 0.1s 27ph/20stn Dmin 16km Az.gap 110°
Corr. -0.578 23M/18stn Msd 0.2 5↑ 3↓
Felt Ashhurst (62) MM4, Dannevirke (63).

92/8377
AUG 02 0039 15.3s 37.86S 178.23E 56km M=4.6
0.2 0.01 0.02 2
Rsd 0.2s 23ph/18stn Dmin 24km Az.gap 137°
Corr. -0.003 8M/4stn Msd 0.3 3↑ 2↓

92/8378
AUG 02 0149 22.0s 37.29S 175.47E 193km M=3.8
0.5 0.03 0.05 5
Rsd 0.1s 9ph/7stn Dmin 64km Az.gap 183°
Corr. 0.703 10M/10stn Msd 0.2 1↑

92/8381
AUG 02 0324 44.7s 38.46S 176.81E 64km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 27ph/24stn Dmin 34km Az.gap 63°
Corr. 0.127 17M/11stn Msd 0.2 1↑

92/8390
AUG 02 1500 24.5s 37.16S 177.31E 171km M=4.1
0.8 0.05 0.04 8
Rsd 0.3s 15ph/9stn Dmin 101km Az.gap 193°
Corr. 0.451 20M/17stn Msd 0.2 1↓

92/8397
AUG 02 2123 59.9s 36.60S 177.24E 224km M=4.1
1.2 0.11 0.21 18
Rsd 0.4s 10ph/7stn Dmin 145km Az.gap 288°
Corr. -0.738 11M/11stn Msd 0.1

92/8401
AUG 03 0223 29.6s 38.29S 177.69E 50km M=3.9
0.2 0.01 0.01 3
Rsd 0.2s 19ph/15stn Dmin 48km Az.gap 76°
Corr. -0.035 21M/17stn Msd 0.2 2↑ 2↓

92/8403
AUG 03 0536 05.1s 37.73S 176.44E 157km M=3.7
0.3 0.01 0.02 3
Rsd 0.1s 11ph/9stn Dmin 83km Az.gap 125°
Corr. 0.566 12M/12stn Msd 0.2 1↓

92/8404
AUG 03 0615 23.2s 41.30S 172.64E 192km M=3.8
0.3 0.02 0.02 3
Rsd 0.2s 32ph/21stn Dmin 54km Az.gap 116°
Corr. -0.227 12M/12stn Msd 0.2 1↑

92/8405
AUG 03 0643 16.8s 45.78S 167.11E 5km M=3.6
0.3 0.01 0.03 R
Rsd 0.3s 20ph/13stn Dmin 62km Az.gap 240°
Corr. 0.241 15M/12stn Msd 0.2

92/8410
AUG 03 1058 41.5s 35.76S 178.57E 229km M=4.4
0.6 0.09 0.07 12
Rsd 0.3s 11ph/8stn Dmin 205km Az.gap 300°
Corr. 0.311 16M/16stn Msd 0.2

92/8412
AUG 03 1347 43.8s 39.74S 174.17E 198km M=4.0
0.3 0.01 0.03 3
Rsd 0.2s 31ph/23stn Dmin 65km Az.gap 189°
Corr. -0.246 24M/21stn Msd 0.2 1↑

92/8426
AUG 04 0430 12.4s 39.97S 174.58E 114km M=4.1
0.3 0.01 0.02 3
Rsd 0.2s 35ph/30stn Dmin 36km Az.gap 81°
Corr. -0.377 23M/18stn Msd 0.3 8↑ 3↓

92/8430
AUG 04 0808 06.7s 38.76S 175.87E 190km M=3.5
0.2 0.04 0.04 5
Rsd 0.1s 11ph/8stn Dmin 176km Az.gap 323°
Corr. -0.793 4M/4stn Msd 0.2 1↑

92/8438
AUG 04 1852 22.2s 39.95S 176.21E 28km M=3.8
0.1 0.01 0.02 2
Rsd 0.3s 25ph/22stn Dmin 30km Az.gap 79°
Corr. -0.330 28M/26stn Msd 0.2 2↑ 2↓

92/8439
AUG 04 1859 06.8s 40.15S 173.64E 169km M=3.8
0.3 0.02 0.02 3
Rsd 0.2s 31ph/18stn Dmin 76km Az.gap 187°
Corr. -0.285 13M/11stn Msd 0.2 1↑ 1↓

92/8443
AUG 04 2126 07.7s 38.85S 175.24E 215km M=3.9
0.9 0.04 0.05 8
Rsd 0.3s 15ph/11stn Dmin 47km Az.gap 197°
Corr. -0.248 17M/15stn Msd 0.3 1↓

92/8450
AUG 05 0746 27.2s 35.95S 179.84W 98km M=5.0
0.8 0.05 0.06 R
Rsd 0.2s 18ph/15stn Dmin 247km Az.gap 313°
Corr. 0.332 8M/4stn Msd 0.2 1↓

92/8455
AUG 05 1244 27.4s 37.65S 176.41E 188km M=4.4
0.4 0.03 0.03 4
Rsd 0.2s 18ph/13stn Dmin 76km Az.gap 121°
Corr. 0.430 24M/18stn Msd 0.2 1↑

92/8465
AUG 06 0517 45.1s 38.53S 175.99E 205km M=3.5
0.8 0.19 0.13 21
Rsd 0.1s 11ph/9stn Dmin 236km Az.gap 342°
Corr. 0.129 6M/6stn Msd 0.3

92/8472
AUG 06 0843 12.2s 37.54S 176.74E 232km M=3.6
0.3 0.04 0.07 6
Rsd 0.1s 9ph/8stn Dmin 165km Az.gap 290°
Corr. -0.945 3M/3stn Msd 0.1

92/8476
AUG 06 1222 51.1s 35.69S 177.74E 291km M=3.9
1.4 0.15 0.27 20
Rsd 0.5s 9ph/6stn Dmin 217km Az.gap 328°
Corr. -0.797 3M/3stn Msd 0.0

92/8479
AUG 06 1405 35.1s 38.55S 176.12E 131km M=3.8
0.7 0.03 0.03 6
Rsd 0.3s 22ph/16stn Dmin 49km Az.gap 111°
Corr. 0.172 22M/19stn Msd 0.2 1↓

92/8481
AUG 06 1552 11.7s 38.05S 176.08E 184km M=3.6
0.6 0.04 0.06 5
Rsd 0.2s 11ph/10stn Dmin 93km Az.gap 225°
Corr. -0.699 14M/14stn Msd 0.2

92/8486
AUG 06 1743 13.0s 38.98S 174.95E 228km M=4.9
0.4 0.01 0.03 3
Rsd 0.2s 42ph/33stn Dmin 57km Az.gap 129°
Corr. -0.115 8M/4stn Msd 0.2 11↑ 4↓

92/8500
AUG 08 0044 53.3s 36.84S 178.77E 5km M=3.9
0.5 0.02 0.04 R
Rsd 0.2s 12ph/6stn Dmin 94km Az.gap 287°
Corr. 0.395 10M/6stn Msd 0.2

92/8501
AUG 08 0051 50.4s 36.86S 178.83E 5km M=3.7
0.3 0.01 0.03 R
Rsd 0.2s 12ph/8stn Dmin 94km Az.gap 287°
Corr. 0.052 11M/7stn Msd 0.2 1↑

92/8502
AUG 08 0108 04.8s 31.20S 179.94E 395km M=7.1
0.1 R R R
Rsd 0.6s 27ph/24stn Dmin 726km Az.gap 339°
Corr. 0.000 8M/4stn Msd 0.3 1↑
Felt Gisborne (45), Mt Vernon (60) and Kapiti coast (65), maximum intensity MM4 at Mt Vernon.

92/8512
AUG 08 1237 14.4s 38.96S 177.53E 56km M=4.3
0.2 0.01 0.02 3
Rsd 0.2s 30ph/23stn Dmin 39km Az.gap 81°
Corr. -0.357 8M/4stn Msd 0.3 2↓

92/8513
AUG 08 1435 12.0s 37.13S 178.48E 25km M=3.8
0.2 0.01 0.02 2
Rsd 0.1s 11ph/5stn Dmin 54km Az.gap 272°
Corr. 0.134 9M/5stn Msd 0.2

92/8528
AUG 09 1050 53.1s 37.73S 176.82E 5km M=3.7
0.2 0.02 0.02 R
Rsd 0.5s 19ph/13stn Dmin 49km Az.gap 126°
Corr. 0.226 17M/13stn Msd 0.1 1↑

92/8530
AUG 09 1427 14.4s 36.71S 177.39E 268km M=3.9
0.3 0.06 0.10 7
Rsd 0.1s 9ph/6stn Dmin 169km Az.gap 300°
Corr. -0.883 7M/7stn Msd 0.2

92/8533
AUG 09 1735 16.3s 38.78S 175.92E 120km M=3.7
0.7 0.02 0.03 8
Rsd 0.4s 22ph/15stn Dmin 52km Az.gap 113°
Corr. -0.171 20M/18stn Msd 0.2 10↑ 2↓

92/8536
AUG 09 1940 36.1s 38.62S 177.49E 62km M=4.8
0.2 0.01 0.01 2
Rsd 0.2s 29ph/24stn Dmin 46km Az.gap 52°
Corr. -0.028 8M/4stn Msd 0.2 9↑ 18↓
Felt Gisborne (45).

92/8539
AUG 09 2358 00.1s 37.78S 176.20E 296km M=5.3
0.6 0.05 0.06 4
Rsd 0.3s 26ph/22stn Dmin 30km Az.gap 94°
Corr. 0.207 8M/4stn Msd 0.2 9↑ 1↓

92/8548
AUG 10 0832 49.1s 38.51S 176.30E 118km M=4.2
0.5 0.01 0.02 4
Rsd 0.3s 31ph/24stn Dmin 15km Az.gap 89°
Corr. 0.299 8M/4stn Msd 0.1 6↑ 2↓

92/8550
AUG 10 1039 35.4s 40.49S 173.19E 237km M=5.1
0.4 0.02 0.02 3
Rsd 0.2s 31ph/26stn Dmin 67km Az.gap 151°
Corr. -0.170 8M/4stn Msd 0.2 6↑ 1↓

92/8558
AUG 10 2316 16.1s 37.49S 179.27E 22km M=4.9
0.6 0.03 0.04 5
Rsd 0.2s 24ph/19stn Dmin 87km Az.gap 231°
Corr. -0.223 9M/5stn Msd 0.2 1↑ 1↓

92/8564
AUG 11 0403 48.5s 38.37S 176.24E 189km M=3.5
0.3 0.03 0.07 3
Rsd 0.1s 12ph/10stn Dmin 148km Az.gap 329°
Corr. -0.816 5M/5stn Msd 0.3

92/8570
AUG 11 0742 55.8s 39.17S 175.66E 90km M=3.5
0.2 0.01 0.02 2
Rsd 0.2s 36ph/26stn Dmin 5km Az.gap 105°
Corr. -0.559 21M/19stn Msd 0.2 1↑

92/8580
AUG 11 1400 18.7s 37.49S 177.29E 143km M=4.5
0.3 0.02 0.02 2
Rsd 0.2s 27ph/19stn Dmin 10km Az.gap 158°
Corr. 0.439 26M/20stn Msd 0.3 1↑

92/8587
AUG 11 2227 03.6s 38.19S 175.80E 154km M=3.8
0.5 0.04 0.05 4
Rsd 0.2s 17ph/11stn Dmin 98km Az.gap 231°
Corr. -0.605 19M/17stn Msd 0.2

92/8607
AUG 12 2137 22.8s 38.62S 175.87E 144km M=3.7
0.9 0.06 0.08 9
Rsd 0.3s 13ph/9stn Dmin 66km Az.gap 218°
Corr. -0.535 7M/7stn Msd 0.2 1↑

92/8613
AUG 12 2255 09.8s 38.49S 176.00E 155km M=4.0
0.4 0.02 0.02 4
Rsd 0.3s 28ph/20stn Dmin 61km Az.gap 118°
Corr. 0.036 26M/22stn Msd 0.2 1↑

92/8622
AUG 13 0706 02.0s 37.29S 177.49E 123km M=3.8
0.1 0.01 0.00 1
Rsd 0.0s 14ph/10stn Dmin 80km Az.gap 228°
Corr. -0.279 20M/16stn Msd 0.2 1↓

92/8624
AUG 13 0743 13.0s 37.52S 178.88E 22km M=3.6
0.2 0.01 0.02 1
Rsd 0.1s 11ph/5stn Dmin 52km Az.gap 285°
Corr. 0.163 12M/8stn Msd 0.1 1↑

92/8628
AUG 13 0949 06.5s 38.49S 175.74E 139km M=3.6
0.6 0.02 0.04 6
Rsd 0.2s 17ph/12stn Dmin 77km Az.gap 146°
Corr. -0.220 21M/17stn Msd 0.3 1↑

92/8631
AUG 13 1518 38.5s 41.26S 172.61E 214km M=3.7
0.2 0.01 0.02 2
Rsd 0.2s 35ph/23stn Dmin 49km Az.gap 121°
Corr. -0.069 9M/9stn Msd 0.4 1↑

92/8632
AUG 13 1807 05.7s 37.10S 176.50E 309km M=4.2
0.4 0.06 0.06 3
Rsd 0.2s 15ph/11stn Dmin 139km Az.gap 251°
Corr. -0.727 15M/15stn Msd 0.2

92/8639
AUG 14 0527 36.2s 38.89S 178.82E 33km M=3.6
1.3 0.06 0.11 R
Rsd 0.7s 9ph/6stn Dmin 75km Az.gap 240°
Corr. -0.566 6M/4stn Msd 0.3 1↑

92/8649
AUG 14 1403 41.5s 37.18S 177.41E 132km M=3.7
0.0 0.00 0.00 0
Rsd 0.0s 5ph/3stn Dmin 92km Az.gap 289°
Corr. -0.707 3M/3stn Msd 0.3

92/8654
AUG 15 0023 46.3s 45.37S 167.17E 101km M=3.8
0.3 0.01 0.02 2
Rsd 0.2s 21ph/14stn Dmin 11km Az.gap 209°
Corr. -0.305 8M/5stn Msd 0.1 2↑ 5↓

92/8675
AUG 15 2100 57.4s 35.89S 179.31W 33km M=4.5
0.7 0.05 0.05 R
Rsd 0.2s 14ph/10stn Dmin 285km Az.gap 319°
Corr. 0.002 30M/26stn Msd 0.2

92/8676
AUG 15 2135 47.0s 36.99S 176.65E 292km M=4.1
0.5 0.03 0.04 5
Rsd 0.2s 13ph/11stn Dmin 87km Az.gap 188°
Corr. 0.008 18M/17stn Msd 0.2

92/8677
AUG 15 2221 18.1s 38.21S 176.27E 160km M=4.1
0.5 0.02 0.03 4
Rsd 0.3s 20ph/14stn Dmin 71km Az.gap 103°
Corr. 0.234 23M/19stn Msd 0.2 1↑

92/8678
AUG 15 2324 11.3s 38.52S 176.48E 104km M=3.5
0.4 0.03 0.03 4
Rsd 0.3s 16ph/10stn Dmin 62km Az.gap 191°
Corr. -0.727 16M/14stn Msd 0.1 1↑

92/8690
AUG 16 1512 08.2s 39.14S 174.80E 222km M=3.5
0.4 0.02 0.04 4
Rsd 0.2s 13ph/8stn Dmin 65km Az.gap 246°
Corr. -0.516 7M/7stn Msd 0.1

92/8694
AUG 16 1804 31.0s 40.44S 173.36E 158km M=4.6
0.3 0.01 0.01 3
Rsd 0.2s 30ph/24stn Dmin 62km Az.gap 143°
Corr. -0.102 9M/5stn Msd 0.2 4↑ 4↓
Felt Wellington (68).

92/8695
AUG 16 1833 33.3s 39.23S 173.73E 5km M=3.7
0.3 0.02 0.02 R
Rsd 0.1s 17ph/13stn Dmin 22km Az.gap 183°
Corr. -0.320 18M/16stn Msd 0.2

92/8699
AUG 16 2217 57.9s 38.14S 176.86E 79km M=3.6
0.2 0.01 0.01 3
Rsd 0.2s 11ph/9stn Dmin 26km Az.gap 140°
Corr. -0.039 15M/12stn Msd 0.2 1↑

92/8701
AUG 16 2302 30.1s 37.11S 177.44E 126km M=3.9
0.4 0.02 0.02 4
Rsd 0.2s 11ph/8stn Dmin 94km Az.gap 202°
Corr. 0.373 11M/8stn Msd 0.2 1↓

92/8710
AUG 17 0759 59.1s 39.88S 173.90E 131km M=3.5
0.3 0.01 0.01 3
Rsd 0.2s 31ph/20stn Dmin 89km Az.gap 194°
Corr. -0.320 10M/10stn Msd 0.3 1↑

92/8720
AUG 17 1404 39.8s 39.23S 173.75E 5km M=3.6
0.3 0.02 0.02 R
Rsd 0.1s 17ph/12stn Dmin 19km Az.gap 238°
Corr. 0.105 15M/13stn Msd 0.2 1↑

92/8733
AUG 18 0214 57.8s 38.49S 175.82E 205km M=3.6
0.3 0.02 0.03 4
Rsd 0.1s 21ph/15stn Dmin 79km Az.gap 309°
Corr. 0.152 8M/8stn Msd 0.3 1↑

92/8734
AUG 18 0317 54.0s 37.89S 176.82E 136km M=3.6
0.5 0.04 0.03 3
Rsd 0.2s 15ph/12stn Dmin 17km Az.gap 209°
Corr. 0.273 15M/15stn Msd 0.1 1↑

92/8741
AUG 18 0945 41.6s 39.24S 173.76E 9km M=4.3
0.4 0.02 0.02 2
Rsd 0.2s 16ph/12stn Dmin 19km Az.gap 158°
Corr. -0.594 8M/4stn Msd 0.3 1↑
Felt New Plymouth (47). Several aftershocks recorded only at NRZ.

92/8742
AUG 18 1005 03.5s 39.23S 173.73E 5km M=4.2
0.4 0.03 0.02 R
Rsd 0.2s 12ph/10stn Dmin 21km Az.gap 159°
Corr. -0.226 34M/28stn Msd 0.2 1↑
Felt New Plymouth (47).

92/8754
AUG 18 1452 37.5s 41.27S 175.25E 29km M=3.9
0.1 0.01 0.01 1
Rsd 0.2s 32ph/25stn Dmin 16km Az.gap 59°
Corr. -0.404 22M/17stn Msd 0.3 9↑ 7↓
Felt Otaki (65) to Wellington (68), max. int. MM4.

92/8759
AUG 18 1658 54.3s 40.17S 174.73E 17km M=4.1
0.2 0.01 0.02 3
Rsd 0.3s 31ph/23stn Dmin 45km Az.gap 75°
Corr. -0.377 34M/29stn Msd 0.3 2↑ 1↓
Felt Wanganui (57) MM4 and Otaki (65).

92/8762
AUG 18 1855 39.1s 37.59S 177.20E 138km M=3.9
0.2 0.02 0.01 2
Rsd 0.1s 16ph/12stn Dmin 75km Az.gap 228°
Corr. -0.535 20M/18stn Msd 0.2 1↑

92/8764
AUG 18 2124 40.9s 40.18S 174.75E 19km M=3.6
0.2 0.01 0.02 3
Rsd 0.3s 30ph/24stn Dmin 45km Az.gap 75°
Corr. -0.075 21M/18stn Msd 0.2 1↑

92/8768
AUG 19 0100 11.2s 38.90S 177.06E 51km M=4.3
0.1 0.00 0.01 1
Rsd 0.1s 29ph/25stn Dmin 5km Az.gap 44°
Corr. -0.059 8M/4stn Msd 0.3 1↑ 7↓
Felt Patoka (52) MM4 and Napier (60).

92/8776
AUG 19 0520 12.0s 41.53S 173.36E 92km M=4.0
0.2 0.01 0.01 2
Rsd 0.3s 39ph/22stn Dmin 40km Az.gap 72°
Corr. -0.293 18M/13stn Msd 0.2 2↑ 2↓

92/8777
AUG 19 0616 05.3s 38.07S 175.95E 158km M=3.7
0.7 0.05 0.07 4
Rsd 0.2s 13ph/10stn Dmin 104km Az.gap 233°
Corr. -0.672 17M/17stn Msd 0.2 1↑

92/8781
AUG 19 0918 05.6s 37.72S 176.97E 5km M=3.8
0.3 0.02 0.02 R
Rsd 0.3s 13ph/11stn Dmin 29km Az.gap 93°
Corr. -0.324 15M/11stn Msd 0.1 1↑

92/8782
AUG 19 0924 38.6s 37.71S 177.01E 5km M=3.5
0.2 0.02 0.02 R
Rsd 0.4s 12ph/10stn Dmin 26km Az.gap 90°
Corr. -0.373 11M/7stn Msd 0.2 1↑

92/8783
AUG 19 0934 14.3s 37.74S 176.99E 5km M=3.8
0.2 0.02 0.01 R
Rsd 0.3s 16ph/13stn Dmin 29km Az.gap 89°
Corr. -0.186 16M/12stn Msd 0.1 1↓

92/8793
AUG 19 2015 58.8s 38.03S 176.39E 162km M=3.8
0.7 0.05 0.10 5
Rsd 0.3s 15ph/10stn Dmin 69km Az.gap 227°
Corr. -0.824 16M/14stn Msd 0.2 1↑

92/8797
AUG 20 0031 35.3s 37.71S 177.00E 5km M=4.1
0.2 0.02 0.02 R
Rsd 0.3s 19ph/16stn Dmin 26km Az.gap 86°
Corr. -0.367 20M/14stn Msd 0.2

92/8808
AUG 20 0621 11.0s 39.08S 174.93E 216km M=3.8
0.2 0.01 0.02 2
Rsd 0.1s 24ph/19stn Dmin 55km Az.gap 235°
Corr. 0.057 14M/12stn Msd 0.2 1↑

92/8812
AUG 20 1319 07.5s 38.26S 175.55E 169km M=3.6
0.3 0.03 0.06 4
Rsd 0.2s 18ph/12stn Dmin 136km Az.gap 226°
Corr. -0.930 10M/10stn Msd 0.2

92/8834
AUG 21 1241 37.3s 38.20S 176.52E 125km M=3.6
0.2 0.01 0.01 2
Rsd 0.2s 22ph/16stn Dmin 12km Az.gap 77°
Corr. 0.014 12M/10stn Msd 0.2 1↑

92/8839
AUG 21 1739 55.8s 45.11S 167.48E 108km M=4.7
0.3 0.01 0.02 2
Rsd 0.1s 24ph/14stn Dmin 60km Az.gap 226°
Corr. -0.166 9M/5stn Msd 0.1 3↑ 11↓

92/8847
AUG 22 0251 37.6s 41.77S 171.94E 12km M=3.7
0.2 0.01 0.02 R
Rsd 0.2s 19ph/12stn Dmin 12km Az.gap 101°
Corr. 0.005 17M/12stn Msd 0.2 1↑ 1↓

92/8851
AUG 22 0706 15.8s 37.71S 176.78E 12km M=4.3
0.2 0.02 0.01 R
Rsd 0.3s 22ph/17stn Dmin 32km Az.gap 103°
Corr. -0.059 23M/17stn Msd 0.3 1↑

92/8852
AUG 22 0708 04.4s 37.74S 176.83E 8km M=3.0
0.3 0.01 0.01 3
Rsd 0.2s 13ph/7stn Dmin 30km Az.gap 104°
Corr. 0.523 4M/3stn Msd 0.2 1↑
Felt Otamarakau (27) MM3.

92/8856
AUG 22 0852 39.1s 38.92S 175.49E 115km M=3.7
0.5 0.01 0.03 6
Rsd 0.2s 24ph/17stn Dmin 31km Az.gap 136°
Corr. -0.121 18M/16stn Msd 0.4 4↑ 1↓

92/8858
AUG 22 1029 19.3s 38.41S 178.89E 28km M=3.8
0.4 0.03 0.03 3
Rsd 0.1s 13ph/8stn Dmin 66km Az.gap 250°
Corr. -0.061 19M/15stn Msd 0.2 1↑ 1↓

92/8859
AUG 22 1051 20.0s 37.36S 176.37E 246km M=3.6
0.6 0.09 0.17 6
Rsd 0.2s 14ph/10stn Dmin 120km Az.gap 286°
Corr. -0.805 3M/3stn Msd 0.1

92/8866
AUG 22 1525 12.0s 38.43S 179.00E 20km M=3.7
0.3 0.01 0.03 1
Rsd 0.1s 11ph/6stn Dmin 77km Az.gap 262°
Corr. -0.107 10M/6stn Msd 0.1

92/8871
AUG 22 2029 16.0s 36.02S 178.34E 243km M=3.9
0.7 0.10 0.23 3
Rsd 0.1s 11ph/8stn Dmin 272km Az.gap 345°
Corr. -0.844 4M/4stn Msd 0.3

92/8886
AUG 23 1127 53.5s 39.56S 175.56E 5km M=3.5
0.1 0.01 0.02 R
Rsd 0.3s 22ph/17stn Dmin 39km Az.gap 79°
Corr. 0.029 13M/12stn Msd 0.3 1↑ 3↓

92/8893
AUG 23 1449 33.8s 36.61S 177.30E 5km M=3.7
1.2 0.08 0.07 R
Rsd 0.8s 9ph/4stn Dmin 141km Az.gap 238°
Corr. 0.629 4M/4stn Msd 0.1

92/8903
AUG 23 2031 12.2s 37.35S 176.58E 248km M=4.2
0.2 0.02 0.02 2
Rsd 0.1s 15ph/11stn Dmin 102km Az.gap 150°
Corr. 0.555 19M/18stn Msd 0.2 6↑ 2↓

92/8905
AUG 23 2228 43.0s 38.00S 176.20E 176km M=4.8
0.6 0.03 0.03 5
Rsd 0.2s 25ph/20stn Dmin 16km Az.gap 152°
Corr. 0.320 8M/4stn Msd 0.3 4↑ 9↓

92/8906
AUG 23 2317 19.9s 35.40S 178.75E 33km M=4.3
1.5 0.09 0.11 R
Rsd 0.6s 9ph/6stn Dmin 247km Az.gap 289°
Corr. 0.420 11M/9stn Msd 0.3

92/8925
AUG 24 1543 54.3s 37.62S 177.17E 123km M=3.7
0.6 0.03 0.03 7
Rsd 0.3s 11ph/9stn Dmin 60km Az.gap 143°
Corr. 0.396 3M/3stn Msd 0.1 1↑ 1↓

92/8930
AUG 24 1741 56.6s 38.05S 175.65E 187km M=3.6
0.9 0.06 0.13 10
Rsd 0.4s 18ph/14stn Dmin 130km Az.gap 238°
Corr. -0.871 13M/13stn Msd 0.1 1↑

92/8950
AUG 25 1128 25.6s 37.52S 177.07E 12km M=4.7
0.2 0.02 0.02 R
Rsd 0.3s 22ph/20stn Dmin 11km Az.gap 149°
Corr. 0.475 40M/34stn Msd 0.3 1↑
Felt Otamarakau (27) MM4.

92/8952
AUG 25 1135 10.7s 37.79S 177.02E 44km M=3.5
1.0 0.09 0.05 25
Rsd 0.5s 6ph/5stn Dmin 38km Az.gap 125°
Corr. 0.691 2M/2stn Msd 0.5

92/8962
AUG 25 1354 45.8s 37.50S 177.26E 112km M=4.6
0.2 0.02 0.02 2
Rsd 0.1s 20ph/15stn Dmin 7km Az.gap 154°
Corr. 0.664 26M/21stn Msd 0.2 3↑ 1↓

92/8982
AUG 26 0545 55.6s 41.32S 172.61E 189km M=3.6
0.3 0.01 0.02 2
Rsd 0.2s 27ph/15stn Dmin 55km Az.gap 163°
Corr. -0.031 7M/7stn Msd 0.3 1↑

92/8991
AUG 26 1550 34.0s 37.64S 177.12E 12km M=3.5
0.3 0.02 0.04 R
Rsd 0.4s 10ph/7stn Dmin 14km Az.gap 93°
Corr. -0.114 9M/7stn Msd 0.3 1↑

92/8993
AUG 26 1836 40.8s 36.78S 176.87E 263km M=4.1
0.4 0.05 0.05 3
Rsd 0.1s 13ph/11stn Dmin 165km Az.gap 295°
Corr. -0.385 15M/13stn Msd 0.2

92/8995
AUG 26 2104 22.1s 39.83S 174.17E 191km M=3.5
0.3 0.02 0.02 3
Rsd 0.1s 15ph/11stn Dmin 65km Az.gap 251°
Corr. -0.348 9M/7stn Msd 0.2

92/9003
AUG 27 0511 38.4s 37.57S 177.11E 5km M=3.8
0.2 0.02 0.02 R
Rsd 0.3s 17ph/13stn Dmin 8km Az.gap 108°
Corr. -0.023 19M/15stn Msd 0.4 1↑ 1↓

92/9016
AUG 27 1337 53.7s 38.44S 175.75E 130km M=3.5
0.9 0.04 0.07 8
Rsd 0.3s 12ph/7stn Dmin 83km Az.gap 249°
Corr. -0.609 4M/2stn Msd 0.3

92/9020
AUG 27 1810 20.3s 37.89S 176.53E 150km M=3.9
0.8 0.06 0.06 6
Rsd 0.3s 10ph/8stn Dmin 38km Az.gap 268°
Corr. -0.170 11M/9stn Msd 0.3 1↑

92/9021
AUG 27 1811 51.2s 37.79S 177.30E 62km M=3.7
0.1 0.01 0.01 1
Rsd 0.1s 11ph/9stn Dmin 55km Az.gap 196°
Corr. 0.309 13M/11stn Msd 0.1 1↑

92/9029
AUG 28 0238 50.2s 38.54S 176.13E 194km M=3.7
0.4 0.13 0.05 15
Rsd 0.1s 11ph/9stn Dmin 238km Az.gap 339°
Corr. 0.126 6M/4stn Msd 0.2 1↑

92/9030
AUG 28 0311 31.8s 36.98S 177.58E 132km M=4.6
0.4 0.03 0.03 5
Rsd 0.2s 16ph/11stn Dmin 70km Az.gap 250°
Corr. 0.447 23M/18stn Msd 0.2 1↑ 1↓

92/9031
AUG 28 0330 13.0s 38.85S 175.49E 198km M=4.3
1.2 0.05 0.07 10
Rsd 0.3s 13ph/10stn Dmin 38km Az.gap 198°
Corr. -0.416 19M/15stn Msd 0.3 1↑

92/9032
AUG 28 0519 26.7s 37.29S 177.81E 47km M=3.8
0.3 0.01 0.02 8
Rsd 0.2s 10ph/6stn Dmin 56km Az.gap 202°
Corr. -0.024 5M/3stn Msd 0.2 1↑

92/9036
AUG 28 0854 30.6s 38.26S 176.42E 5km M=2.7
0.0 0.00 0.00 R
Rsd 0.1s 15ph/12stn Dmin 8km Az.gap 106°
Corr. -0.275 5M/4stn Msd 0.3 1↑
Felt Lake Tarawera (33).

92/9058
AUG 28 2125 27.9s 38.70S 175.90E 136km M=4.0
0.5 0.02 0.03 5
Rsd 0.3s 23ph/15stn Dmin 47km Az.gap 128°
Corr. -0.230 17M/15stn Msd 0.3 1↑ 1↓

92/9064
AUG 28 2327 22.0s 37.03S 177.27E 305km M=3.8
0.3 0.03 0.16 8
Rsd 0.1s 8ph/6stn Dmin 280km Az.gap 342°
Corr. -0.443 3M/3stn Msd 0.0

92/9073
AUG 29 0538 55.4s 40.80S 172.81E 11km M=3.7
0.3 0.01 0.02 3
Rsd 0.2s 27ph/19stn Dmin 24km Az.gap 129°
Corr. -0.322 26M/21stn Msd 0.2 1↓

92/9082
AUG 29 0954 06.8s 42.51S 173.00E 5km M=3.5
0.1 0.01 0.02 R
Rsd 0.3s 28ph/16stn Dmin 67km Az.gap 133°
Corr. -0.453 21M/17stn Msd 0.2 3↑ 2↓

92/9086
AUG 29 1448 51.7s 38.13S 176.22E 155km M=4.2
0.4 0.02 0.02 3
Rsd 0.3s 26ph/22stn Dmin 6km Az.gap 72°
Corr. 0.104 23M/19stn Msd 0.2 9↑ 3↓

92/9088
AUG 29 1634 25.2s 37.72S 176.88E 5km M=3.8
0.4 0.03 0.03 R
Rsd 0.4s 16ph/14stn Dmin 35km Az.gap 95°
Corr. 0.009 19M/15stn Msd 0.3 4↑ 1↓

92/9094
AUG 29 2057 10.8s 37.16S 177.24E 180km M=4.1
0.8 0.04 0.05 7
Rsd 0.4s 12ph/10stn Dmin 106km Az.gap 180°
Corr. 0.404 11M/9stn Msd 0.3 1↑

92/9102
AUG 30 0525 15.9s 41.71S 172.92E 95km M=3.8
0.3 0.02 0.02 3
Rsd 0.3s 32ph/22stn Dmin 6km Az.gap 96°
Corr. -0.379 11M/11stn Msd 0.4 1↑ 2↓

92/9104
AUG 30 1004 07.9s 37.85S 177.24E 67km M=4.0
0.2 0.01 0.01 2
Rsd 0.1s 20ph/15stn Dmin 36km Az.gap 82°
Corr. 0.328 16M/14stn Msd 0.2

92/9114
AUG 30 1920 32.8s 43.18S 171.12E 5km M=3.6
0.1 0.00 0.00 R
Rsd 0.1s 19ph/9stn Dmin 33km Az.gap 89°
Corr. -0.010 14M/12stn Msd 0.2 1↑ 2↓

92/9115
AUG 30 2014 04.4s 38.65S 175.99E 108km M=3.8
0.4 0.01 0.02 5
Rsd 0.2s 21ph/15stn Dmin 37km Az.gap 92°
Corr. -0.092 7M/4stn Msd 0.1

92/9118
AUG 30 2331 38.9s 42.40S 173.10E 5km M=3.8
0.1 0.01 0.01 R
Rsd 0.2s 30ph/20stn Dmin 73km Az.gap 132°
Corr. -0.408 10M/5stn Msd 0.2 1↑ 1↓

92/9128
AUG 31 1136 11.3s 40.31S 173.97E 113km M=3.7
0.3 0.02 0.01 3
Rsd 0.3s 36ph/23stn Dmin 55km Az.gap 164°
Corr. -0.232 15M/13stn Msd 0.3 4↑ 1↓

92/9142
SEP 01 0342 03.7s 39.49S 174.50E 254km M=4.0
0.4 0.02 0.04 4
Rsd 0.2s 33ph/26stn Dmin 50km Az.gap 192°
Corr. -0.455 18M/16stn Msd 0.2 3↑ 2↓

92/9145
SEP 01 0748 49.1s 37.91S 176.01E 174km M=3.6
0.5 0.04 0.09 12
Rsd 0.2s 19ph/14stn Dmin 194km Az.gap 232°
Corr. -0.949 8M/8stn Msd 0.1

92/9167
SEP 02 1030 05.4s 37.61S 176.84E 5km M=3.7
0.2 0.02 0.02 R
Rsd 0.4s 12ph/10stn Dmin 32km Az.gap 119°
Corr. -0.285 7M/6stn Msd 0.3

92/9176
SEP 03 0015 07.8s 41.41S 172.50E 198km M=3.6
0.4 0.02 0.03 3
Rsd 0.2s 23ph/18stn Dmin 51km Az.gap 125°
Corr. -0.412 9M/9stn Msd 0.4 1↑

92/9223
SEP 04 0746 15.8s 38.86S 175.94E 111km M=3.6
0.5 0.02 0.03 5
Rsd 0.3s 22ph/17stn Dmin 46km Az.gap 210°
Corr. -0.229 13M/13stn Msd 0.3 1↑

92/9228
SEP 04 1127 58.9s 38.36S 175.76E 186km M=3.7
0.9 0.06 0.04 7
Rsd 0.2s 13ph/11stn Dmin 86km Az.gap 247°
Corr. -0.233 16M/15stn Msd 0.3 1↑

92/9254
SEP 05 1117 12.3s 38.10S 176.10E 197km M=3.5
0.7 0.01 0.03 6
Rsd 0.1s 10ph/7stn Dmin 51km Az.gap 169°
Corr. -0.146 8M/8stn Msd 0.1

92/9261
SEP 05 1801 10.4s 38.29S 176.06E 177km M=3.7
0.4 0.03 0.05 6
Rsd 0.2s 25ph/21stn Dmin 107km Az.gap 204°
Corr. -0.852 15M/15stn Msd 0.3

92/9263
SEP 05 2017 19.9s 39.76S 173.93E 184km M=3.7
0.5 0.02 0.03 5
Rsd 0.2s 26ph/21stn Dmin 86km Az.gap 201°
Corr. -0.371 17M/15stn Msd 0.2

92/9285
SEP 06 1625 03.7s 39.62S 174.30E 208km M=4.0
0.4 0.02 0.04 4
Rsd 0.2s 26ph/22stn Dmin 58km Az.gap 163°
Corr. -0.365 21M/18stn Msd 0.3 2↑ 1↓

92/9288
SEP 06 2044 36.9s 38.25S 176.09E 209km M=3.6
0.6 0.03 0.04 6
Rsd 0.2s 24ph/19stn Dmin 108km Az.gap 238°
Corr. -0.488 15M/14stn Msd 0.2

92/9291
SEP 06 2350 35.6s 36.12S 176.99E 212km M=3.9
0.4 0.02 0.02 4
Rsd 0.1s 12ph/10stn Dmin 134km Az.gap 284°
Corr. -0.200 5M/5stn Msd 0.1

92/9292
SEP 07 0033 05.6s 39.16S 173.72E 5km M=3.6
0.2 0.01 0.02 R
Rsd 0.1s 16ph/9stn Dmin 126km Az.gap 200°
Corr. -0.404 19M/17stn Msd 0.2

92/9303
SEP 07 0937 05.8s 39.19S 173.76E 12km M=3.9
0.2 0.01 0.02 R
Rsd 0.1s 23ph/13stn Dmin 22km Az.gap 183°
Corr. -0.299 23M/21stn Msd 0.3 1↓
Felt New Plymouth (47) MM4.

92/9305
SEP 07 1051 08.3s 40.77S 174.73E 42km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 32ph/21stn Dmin 19km Az.gap 70°
Corr. -0.175 13M/10stn Msd 0.2 3↑ 2↓

92/9317
SEP 07 1742 45.6s 35.17S 178.61E 245km M=4.7
2.7 0.16 0.11 18
Rsd 0.3s 11ph/10stn Dmin 271km Az.gap 311°
Corr. 0.766 22M/19stn Msd 0.3

92/9319
SEP 07 1930 48.4s 38.06S 175.92E 176km M=3.7
0.7 0.06 0.11 6
Rsd 0.4s 15ph/11stn Dmin 106km Az.gap 228°
Corr. -0.844 13M/13stn Msd 0.3 1↑

92/9347
SEP 08 1639 11.9s 37.82S 179.38E 26km M=4.0
1.6 0.14 0.21 19
Rsd 0.3s 13ph/12stn Dmin 98km Az.gap 290°
Corr. 0.883 27M/25stn Msd 0.2 1↑

92/9353
SEP 08 2158 27.2s 36.89S 176.49E 293km M=4.0
1.4 0.06 0.10 11
Rsd 0.4s 12ph/10stn Dmin 70km Az.gap 194°
Corr. -0.352 8M/8stn Msd 0.2 1↑

92/9369
SEP 09 1721 16.2s 39.16S 174.90E 213km M=3.8
0.3 0.02 0.03 3
Rsd 0.1s 22ph/17stn Dmin 56km Az.gap 206°
Corr. -0.369 18M/16stn Msd 0.2

92/9377
SEP 09 2025 01.3s 40.43S 174.36E 92km M=3.7
0.3 0.01 0.02 4
Rsd 0.3s 27ph/22stn Dmin 56km Az.gap 89°
Corr. -0.258 17M/14stn Msd 0.3 9↑ 1↓

92/9391
SEP 10 1456 43.6s 39.66S 175.56E 19km M=3.5
0.1 0.01 0.01 2
Rsd 0.2s 25ph/20stn Dmin 51km Az.gap 75°
Corr. -0.256 23M/21stn Msd 0.2 2↑ 1↓
Felt Moawhango (58) MM4.

92/9400
SEP 10 2308 26.8s 37.30S 177.77E 95km M=3.9
0.4 0.02 0.03 5
Rsd 0.2s 10ph/8stn Dmin 57km Az.gap 197°
Corr. 0.447 9M/7stn Msd 0.2 1↓

92/9403
SEP 11 0136 48.1s 41.36S 172.97E 114km M=4.7
0.3 0.01 0.02 3
Rsd 0.2s 36ph/24stn Dmin 46km Az.gap 82°
Corr. -0.154 19M/16stn Msd 0.2 14↑ 5↓
Felt Cook Strait region (68,75,76,78), max. int. MM3.

92/9413
SEP 11 1152 21.2s 36.20S 176.50E 12km M=4.7
0.6 0.04 0.05 R
Rsd 0.2s 9ph/7stn Dmin 301km Az.gap 319°
Corr. -0.566 2M/2stn Msd 0.0

92/9415
SEP 11 1521 33.0s 38.38S 176.01E 149km M=3.8
0.7 0.03 0.05 6
Rsd 0.3s 12ph/8stn Dmin 95km Az.gap 139°
Corr. -0.301 15M/15stn Msd 0.3

92/9418
SEP 11 1706 04.5s 42.99S 171.28E 5km M=3.8
0.1 0.01 0.01 R
Rsd 0.1s 19ph/10stn Dmin 45km Az.gap 120°
Corr. -0.313 9M/6stn Msd 0.2 1↓
Felt Hokitika (91).

92/9419
SEP 11 1746 44.7s 45.09S 167.53E 81km M=4.0
0.3 0.01 0.02 2
Rsd 0.1s 21ph/13stn Dmin 56km Az.gap 227°
Corr. 0.046 19M/12stn Msd 0.2 1↑

92/9430
SEP 12 0130 00.0s 37.88S 176.16E 171km M=3.7
0.4 0.04 0.07 3
Rsd 0.1s 14ph/10stn Dmin 94km Az.gap 274°
Corr. -0.742 7M/7stn Msd 0.3 1↑

92/9439
SEP 12 0645 23.2s 39.19S 174.92E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.2s 29ph/21stn Dmin 54km Az.gap 116°
Corr. -0.283 28M/25stn Msd 0.2 3↑ 1↓

92/9480
SEP 13 1648 21.6s 45.08S 167.51E 53km M=3.7
0.2 0.01 0.02 3
Rsd 0.1s 22ph/15stn Dmin 55km Az.gap 229°
Corr. -0.145 15M/11stn Msd 0.2 1↓

92/9489
SEP 14 0509 13.6s 37.92S 176.32E 167km M=4.2
0.4 0.02 0.03 4
Rsd 0.3s 15ph/12stn Dmin 64km Az.gap 101°
Corr. 0.371 24M/20stn Msd 0.3 1↓

92/9491
SEP 14 0542 17.0s 40.17S 173.62E 170km M=3.9
0.4 0.03 0.02 4
Rsd 0.2s 26ph/20stn Dmin 75km Az.gap 187°
Corr. -0.079 13M/11stn Msd 0.3 1↑

92/9512
SEP 15 0146 16.6s 38.22S 175.91E 158km M=3.7
0.8 0.04 0.07 6
Rsd 0.2s 12ph/9stn Dmin 90km Az.gap 243°
Corr. -0.523 18M/18stn Msd 0.2 1↑

92/9524
SEP 15 1557 21.7s 36.74S 177.26E 264km M=4.4
0.8 0.05 0.04 7
Rsd 0.2s 15ph/14stn Dmin 133km Az.gap 227°
Corr. 0.220 23M/19stn Msd 0.2 1↑

92/9527
SEP 15 2027 15.2s 36.71S 177.49E 183km M=4.3
0.5 0.04 0.05 5
Rsd 0.2s 10ph/9stn Dmin 158km Az.gap 259°
Corr. 0.500 17M/15stn Msd 0.3

92/9536
SEP 16 0540 24.3s 38.01S 176.13E 189km M=5.0
0.4 0.02 0.03 3
Rsd 0.2s 33ph/24stn Dmin 19km Az.gap 102°
Corr. 0.361 24M/19stn Msd 0.2

92/9552
SEP 17 0008 59.6s 38.50S 175.85E 170km M=3.7
0.7 0.03 0.05 6
Rsd 0.3s 18ph/12stn Dmin 79km Az.gap 228°
Corr. -0.434 10M/8stn Msd 0.3

92/9553
SEP 17 0040 00.2s 39.01S 175.43E 152km M=3.6
0.8 0.03 0.05 7
Rsd 0.3s 18ph/12stn Dmin 24km Az.gap 209°
Corr. 0.061 10M/10stn Msd 0.3 1↑

92/9565
SEP 17 0626 08.2s 38.49S 176.07E 155km M=3.8
0.9 0.05 0.08 7
Rsd 0.4s 14ph/10stn Dmin 87km Az.gap 207°
Corr. -0.754 7M/7stn Msd 0.2 1↑

92/9568
SEP 17 0940 13.3s 35.38S 178.97E 267km M=4.5
0.8 0.03 0.04 7
Rsd 0.1s 11ph/11stn Dmin 329km Az.gap 311°
Corr. 0.236 11M/10stn Msd 0.1

92/9570
SEP 17 1020 24.9s 39.16S 173.78E 5km M=3.7
0.2 0.01 0.02 R
Rsd 0.1s 24ph/16stn Dmin 24km Az.gap 183°
Corr. 0.287 22M/20stn Msd 0.2 1↓

92/9573
SEP 17 1211 47.8s 39.17S 173.75E 5km M=3.7
0.3 0.02 0.02 R
Rsd 0.1s 23ph/16stn Dmin 24km Az.gap 184°
Corr. -0.445 22M/20stn Msd 0.3 1↓

92/9580
SEP 17 1355 07.7s 38.11S 175.98E 141km M=3.6
0.4 0.03 0.06 3
Rsd 0.2s 16ph/10stn Dmin 100km Az.gap 257°
Corr. -0.852 7M/7stn Msd 0.3 1↑

92/9583
SEP 17 1539 43.9s 39.12S 175.36E 151km M=3.6
0.7 0.02 0.04 6
Rsd 0.3s 28ph/19stn Dmin 18km Az.gap 160°
Corr. -0.059 15M/13stn Msd 0.2

92/9596
SEP 18 0941 14.1s 41.25S 172.78E 169km M=3.7
0.4 0.02 0.02 3
Rsd 0.3s 28ph/19stn Dmin 52km Az.gap 100°
Corr. -0.330 14M/12stn Msd 0.2 3↑ 1↓

92/9603
SEP 18 1446 50.9s 36.70S 178.07E 177km M=3.7
1.2 0.12 0.16 19
Rsd 0.4s 11ph/6stn Dmin 193km Az.gap 273°
Corr. 0.863 2M/2stn Msd 0.3

92/9608
SEP 18 1528 09.9s 36.99S 176.78E 288km M=4.4
0.7 0.05 0.07 6
Rsd 0.2s 15ph/14stn Dmin 98km Az.gap 223°
Corr. 0.313 22M/18stn Msd 0.3 5↑ 1↓

92/9616
SEP 18 2227 51.5s 38.14S 176.25E 158km M=3.7
0.8 0.05 0.08 6
Rsd 0.3s 8ph/6stn Dmin 77km Az.gap 248°
Corr. -0.412 9M/9stn Msd 0.3 3↑ 2↓

92/9627
SEP 19 0758 27.1s 37.17S 176.62E 198km M=3.6
0.1 0.01 0.01 1
Rsd 0.0s 14ph/9stn Dmin 128km Az.gap 303°
Corr. -0.664 6M/6stn Msd 0.2

92/9634
SEP 19 1054 18.7s 38.40S 176.89E 5km M=4.1
0.1 0.01 0.01 R
Rsd 0.2s 28ph/25stn Dmin 24km Az.gap 61°
Corr. -0.318 32M/28stn Msd 0.2 7↑ 6↓

92/9637
SEP 19 1322 29.8s 40.43S 173.34E 194km M=3.9
0.3 0.02 0.02 3
Rsd 0.2s 27ph/21stn Dmin 64km Az.gap 178°
Corr. -0.177 21M/18stn Msd 0.2 1↑

92/9647
SEP 19 1937 56.3s 38.95S 175.65E 122km M=4.2
0.4 0.01 0.02 3
Rsd 0.4s 42ph/28stn Dmin 25km Az.gap 55°
Corr. -0.038 24M/20stn Msd 0.2 15↑ 4↓

92/9654
SEP 20 0301 16.3s 38.49S 175.97E 171km M=3.6
0.8 0.02 0.05 8
Rsd 0.3s 19ph/14stn Dmin 76km Az.gap 141°
Corr. 0.040 12M/12stn Msd 0.2

92/9657
SEP 20 0413 00.6s 37.29S 177.83E 52km M=4.3
0.3 0.02 0.02 3
Rsd 0.1s 21ph/16stn Dmin 54km Az.gap 195°
Corr. 0.275 24M/21stn Msd 0.3 1↑ 1↓

92/9661
SEP 20 0716 21.5s 38.88S 175.67E 5km M=3.7
0.2 0.01 0.02 R
Rsd 0.5s 25ph/19stn Dmin 30km Az.gap 58°
Corr. -0.198 30M/28stn Msd 0.3 1↑
Felt Waihora Rd (40), Omori (41) MM4.

92/9665
SEP 20 1028 06.8s 37.75S 177.19E 134km M=3.6
0.5 0.04 0.05 5
Rsd 0.4s 8ph/5stn Dmin 57km Az.gap 193°
Corr. 0.539 2M/2stn Msd 0.0 1↑

92/9670
SEP 20 1309 28.1s 37.85S 179.77W 119km M=3.9
0.5 0.03 0.06 11
Rsd 0.2s 11ph/6stn Dmin 210km Az.gap 296°
Corr. 0.034 10M/10stn Msd 0.2

92/9673
SEP 20 1520 27.6s 37.04S 177.18E 5km M=3.6
0.2 0.02 0.02 R
Rsd 0.2s 13ph/8stn Dmin 54km Az.gap 198°
Corr. 0.504 9M/7stn Msd 0.1

92/9693
SEP 21 1055 42.7s 36.62S 177.12E 248km M=4.1
0.3 0.01 0.02 2
Rsd 0.1s 10ph/8stn Dmin 126km Az.gap 233°
Corr. 0.539 14M/14stn Msd 0.2

92/9707
SEP 21 2242 31.8s 38.32S 177.70E 62km M=3.9
0.1 0.01 0.01 1
Rsd 0.1s 28ph/23stn Dmin 44km Az.gap 104°
Corr. 0.484 21M/19stn Msd 0.2 1↓

92/9708
SEP 21 2309 00.6s 36.23S 177.93E 234km M=4.6
0.7 0.04 0.03 6
Rsd 0.2s 15ph/11stn Dmin 155km Az.gap 253°
Corr. 0.473 22M/18stn Msd 0.3 4↑ 1↓

92/9720
SEP 22 1005 16.1s 38.75S 175.35E 196km M=3.9
1.1 0.04 0.06 9
Rsd 0.4s 18ph/12stn Dmin 53km Az.gap 200°
Corr. -0.424 13M/13stn Msd 0.3 3↑ 1↓

92/9740
SEP 23 0058 14.2s 39.32S 174.84E 187km M=3.6
0.3 0.01 0.03 3
Rsd 0.1s 16ph/11stn Dmin 54km Az.gap 207°
Corr. 0.028 9M/8stn Msd 0.2

92/9765
SEP 23 1241 53.3s 42.92S 171.02E 11km M=2.8
0.5 0.02 0.02 5
Rsd 0.2s 9ph/7stn Dmin 30km Az.gap 150°
Corr. -0.621 4M/4stn Msd 0.3 1↑
Felt Hokitika (91).

92/9781
SEP 24 0608 01.7s 39.95S 176.22E 27km M=4.3
0.1 0.01 0.02 2
Rsd 0.3s 37ph/29stn Dmin 30km Az.gap 116°
Corr. -0.243 11M/6stn Msd 0.1 1↑ 2↓
Felt Dannevirke (63).

92/9794
SEP 24 1921 31.3s 36.28S 178.00E 191km M=4.0
1.1 0.04 0.04 10
Rsd 0.2s 10ph/6stn Dmin 149km Az.gap 275°
Corr. 0.539 7M/7stn Msd 0.2

92/9795
SEP 24 1927 56.8s 37.06S 177.07E 193km M=4.4
0.7 0.05 0.05 5
Rsd 0.2s 15ph/13stn Dmin 125km Az.gap 183°
Corr. 0.598 22M/19stn Msd 0.2

92/9796
SEP 24 1934 46.5s 38.41S 176.00E 205km M=3.5
1.0 0.05 0.11 11
Rsd 0.3s 14ph/11stn Dmin 96km Az.gap 222°
Corr. -0.840 5M/5stn Msd 0.1

92/9828
SEP 26 0647 02.4s 39.22S 175.03E 133km M=3.8
0.4 0.01 0.02 3
Rsd 0.2s 23ph/17stn Dmin 36km Az.gap 84°
Corr. 0.303 19M/17stn Msd 0.3 6↑ 1↓

92/9844
SEP 27 0242 05.0s 42.72S 171.82E 5km M=4.2
0.2 0.01 0.01 R
Rsd 0.2s 12ph/9stn Dmin 38km Az.gap 114°
Corr. -0.042 12M/6stn Msd 0.1 1↑
Felt Arthur's Pass, Otira (93) max MM4.

92/9862
SEP 27 1454 48.7s 37.91S 176.16E 165km M=3.8
0.5 0.03 0.10 5
Rsd 0.2s 12ph/6stn Dmin 92km Az.gap 277°
Corr. -0.645 4M/4stn Msd 0.1 1↑

92/9868
SEP 27 1802 27.9s 38.00S 176.36E 169km M=4.3
0.4 0.02 0.02 3
Rsd 0.3s 21ph/12stn Dmin 68km Az.gap 98°
Corr. 0.105 20M/16stn Msd 0.2 1↑ 1↓

92/9872
SEP 27 2314 07.1s 39.72S 177.04E 47km M=4.0
0.2 0.01 0.03 2
Rsd 0.2s 31ph/24stn Dmin 15km Az.gap 177°
Corr. -0.738 20M/15stn Msd 0.2 2↑ 1↓

92/9881
SEP 28 1117 19.2s 37.90S 176.61E 139km M=4.3
0.3 0.02 0.02 2
Rsd 0.2s 17ph/13stn Dmin 59km Az.gap 110°
Corr. 0.262 20M/16stn Msd 0.2 1↑

92/9882
SEP 28 1122 21.3s 41.36S 173.29E 90km M=3.8
0.4 0.02 0.02 4
Rsd 0.3s 25ph/20stn Dmin 46km Az.gap 62°
Corr. 0.071 13M/10stn Msd 0.3 2↑ 4↓

92/9886
SEP 28 1416 31.3s 36.06S 177.96E 226km M=3.9
0.1 0.02 0.02 3
Rsd 0.0s 12ph/10stn Dmin 215km Az.gap 290°
Corr. 0.922 3M/3stn Msd 0.3

92/9893
SEP 28 1739 12.8s 40.36S 173.44E 216km M=3.5
0.4 0.03 0.02 3
Rsd 0.2s 23ph/15stn Dmin 64km Az.gap 188°
Corr. -0.139 9M/8stn Msd 0.2 1↑

92/9899
SEP 28 1820 47.4s 37.04S 177.25E 186km M=4.1
0.2 0.01 0.01 2
Rsd 0.1s 9ph/6stn Dmin 112km Az.gap 201°
Corr. 0.473 13M/11stn Msd 0.2

92/9904
SEP 28 2210 08.1s 37.81S 176.78E 145km M=3.9
0.5 0.03 0.03 3
Rsd 0.3s 20ph/13stn Dmin 53km Az.gap 169°
Corr. 0.395 14M/11stn Msd 0.2 2↑ 1↓

92/9908
SEP 29 0216 10.9s 38.13S 176.10E 252km M=3.5
0.3 0.03 0.04 4
Rsd 0.1s 13ph/10stn Dmin 176km Az.gap 320°
Corr. -0.613 5M/5stn Msd 0.1

92/9912
SEP 29 0649 43.8s 38.17S 176.18E 168km M=5.3
0.4 0.02 0.02 3
Rsd 0.2s 38ph/27stn Dmin 1km Az.gap 59°
Corr. 0.299 16M/11stn Msd 0.3 12↑ 1↓

92/9920
SEP 29 1253 39.2s 36.62S 177.03E 5km M=4.5
0.6 0.04 0.03 R
Rsd 0.3s 13ph/10stn Dmin 102km Az.gap 198°
Corr. 0.703 9M/6stn Msd 0.2

92/9930
SEP 29 1938 37.1s 41.29S 172.75E 152km M=3.9
0.4 0.02 0.02 3
Rsd 0.3s 30ph/20stn Dmin 54km Az.gap 103°
Corr. -0.199 14M/11stn Msd 0.2 1↑

92/9948
SEP 30 0920 38.2s 37.39S 179.52E 5km M=4.1
0.4 0.05 0.02 R
Rsd 0.1s 13ph/10stn Dmin 110km Az.gap 287°
Corr. -0.034 29M/27stn Msd 0.2

92/9968
SEP 30 2354 21.1s 37.26S 177.73E 20km M=4.0
0.3 0.03 0.02 R
Rsd 0.2s 18ph/12stn Dmin 57km Az.gap 187°
Corr. 0.309 32M/28stn Msd 0.2 1↑ 1↓

92/9982
OCT 01 0850 19.9s 38.10S 175.71E 33km M=4.2
0.3 0.02 0.02 R
Rsd 0.1s 7ph/3stn Dmin 211km Az.gap 282°
Corr. -0.809 1M/1stn Msd N.D. 1↓

92/10017
OCT 02 1148 53.7s 37.73S 176.18E 161km M=3.6
0.9 0.07 0.12 9
Rsd 0.4s 9ph/7stn Dmin 100km Az.gap 277°
Corr. -0.438 2M/2stn Msd 0.2 1↑

92/10019
OCT 02 1413 40.7s 40.05S 175.16E 22km M=3.8
0.2 0.01 0.02 2
Rsd 0.3s 34ph/27stn Dmin 34km Az.gap 77°
Corr. -0.122 29M/24stn Msd 0.3 2↑ 1↓
Felt Wanganui (57) MM4.

92/10030
OCT 03 0331 13.4s 37.19S 177.50E 124km M=3.7
0.2 0.01 0.01 3
Rsd 0.1s 6ph/4stn Dmin 85km Az.gap 196°
Corr. -0.014 5M/3stn Msd 0.1 1↑

92/10031
OCT 03 0431 47.7s 37.13S 177.67E 82km M=3.9
0.3 0.02 0.02 2
Rsd 0.1s 12ph/10stn Dmin 76km Az.gap 270°
Corr. -0.816 14M/12stn Msd 0.2 1↓

92/10032
OCT 03 0506 44.3s 35.94S 178.38E 203km M=4.1
1.1 0.07 0.09 11
Rsd 0.3s 11ph/10stn Dmin 185km Az.gap 293°
Corr. 0.099 7M/6stn Msd 0.2

92/10073
OCT 05 0112 29.8s 39.20S 176.38E 82km M=4.2
0.2 0.01 0.01 2
Rsd 0.2s 36ph/28stn Dmin 32km Az.gap 44°
Corr. -0.029 24M/19stn Msd 0.3 5↑ 3↓

92/10074
OCT 05 0143 47.1s 37.00S 176.82E 240km M=3.9
1.0 0.10 0.16 12
Rsd 0.5s 10ph/9stn Dmin 142km Az.gap 276°
Corr. -0.840 10M/10stn Msd 0.2

92/10095
OCT 05 2015 38.5s 44.42S 168.05E 12km M=4.3
0.3 0.01 0.01 2
Rsd 0.1s 21ph/16stn Dmin 30km Az.gap 193°
Corr. -0.473 8M/5stn Msd 0.1 2↑ 5↓

92/10096
OCT 05 2053 37.9s 44.67S 168.15E 77km M=3.8
0.4 0.03 0.02 3
Rsd 0.3s 25ph/16stn Dmin 18km Az.gap 131°
Corr. -0.022 23M/17stn Msd 0.2 2↑ 8↓

92/10105
OCT 06 0712 01.6s 37.76S 175.71E 252km M=3.8
0.7 0.05 0.08 9
Rsd 0.2s 13ph/12stn Dmin 142km Az.gap 292°
Corr. -0.684 10M/10stn Msd 0.2

92/10114
OCT 06 1631 28.8s 39.54S 174.30E 189km M=4.4
0.5 0.01 0.03 4
Rsd 0.2s 35ph/26stn Dmin 39km Az.gap 80°
Corr. -0.233 23M/20stn Msd 0.3 1↑ 3↓

92/10121
OCT 07 0007 48.3s 37.23S 179.57E 33km M=3.8
1.2 0.05 0.09 R
Rsd 0.5s 9ph/5stn Dmin 120km Az.gap 297°
Corr. -0.326 5M/5stn Msd 0.2

92/10128
OCT 07 0701 09.9s 41.36S 172.25E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.2s 16ph/13stn Dmin 57km Az.gap 160°
Corr. -0.324 21M/15stn Msd 0.2 1↑ 1↓

92/10129
OCT 07 0940 24.5s 38.45S 176.01E 153km M=4.6
0.5 0.02 0.02 4
Rsd 0.3s 30ph/23stn Dmin 23km Az.gap 65°
Corr. 0.279 26M/21stn Msd 0.3 18↑ 5↓

92/10130
OCT 07 0944 23.5s 36.58S 177.61E 213km M=4.7
0.7 0.03 0.04 6
Rsd 0.3s 20ph/18stn Dmin 129km Az.gap 229°
Corr. 0.531 27M/22stn Msd 0.3 9↑ 4↓

92/10132
OCT 07 1035 45.0s 37.21S 177.31E 208km M=3.5
2.0 0.15 0.23 14
Rsd 0.8s 8ph/6stn Dmin 98km Az.gap 188°
Corr. -0.551 4M/4stn Msd 0.1

92/10134
OCT 07 1454 21.7s 38.12S 176.26E 158km M=4.4
0.4 0.02 0.02 3
Rsd 0.3s 32ph/23stn Dmin 16km Az.gap 59°
Corr. -0.056 25M/21stn Msd 0.2 5↑ 3↓

92/10153
OCT 07 2313 31.0s 38.39S 177.85E 65km M=3.7
0.1 0.01 0.01 2
Rsd 0.1s 18ph/16stn Dmin 30km Az.gap 124°
Corr. -0.171 20M/18stn Msd 0.2 1↑

92/10181
OCT 08 1626 01.9s 39.01S 175.10E 191km M=3.6
1.3 0.04 0.06 10
Rsd 0.3s 14ph/12stn Dmin 44km Az.gap 195°
Corr. -0.283 16M/16stn Msd 0.3 1↑

92/10186
OCT 08 2016 57.4s 42.30S 173.70E 33km M=3.5
0.3 0.01 0.03 4
Rsd 0.2s 12ph/7stn Dmin 67km Az.gap 195°
Corr. -0.208 8M/6stn Msd 0.2

92/10198
OCT 09 0733 01.0s 44.76S 167.27E 5km M=3.2
0.4 0.02 0.02 R
Rsd 0.2s 24ph/15stn Dmin 53km Az.gap 254°
Corr. -0.871 15M/15stn Msd 0.2 1↓
Felt Queenstown (132) MM4.

92/10201
OCT 09 1128 54.0s 37.81S 176.39E 161km M=3.9
0.2 0.01 0.02 2
Rsd 0.2s 15ph/13stn Dmin 70km Az.gap 110°
Corr. 0.408 23M/21stn Msd 0.3 1↑

92/10219
OCT 10 0259 38.8s 38.24S 176.22E 138km M=3.9
0.4 0.03 0.01 3
Rsd 0.2s 18ph/13stn Dmin 76km Az.gap 174°
Corr. -0.043 26M/22stn Msd 0.3 1↑

92/10225
OCT 10 1030 09.4s 40.53S 175.78E 38km M=3.5
0.1 0.01 0.01 2
Rsd 0.2s 38ph/28stn Dmin 22km Az.gap 92°
Corr. -0.527 20M/17stn Msd 0.2 4↑ 1↓
Felt Palmerston North (62).

92/10233
OCT 10 2018 25.8s 38.30S 176.23E 123km M=3.5
0.5 0.03 0.04 5
Rsd 0.3s 18ph/15stn Dmin 10km Az.gap 137°
Corr. -0.197 15M/15stn Msd 0.1

92/10241
OCT 11 0229 35.7s 41.33S 172.75E 143km M=3.8
0.4 0.02 0.02 3
Rsd 0.3s 27ph/20stn Dmin 50km Az.gap 102°
Corr. -0.293 16M/13stn Msd 0.2 5↑ 1↓

92/10252
OCT 11 1339 49.3s 38.64S 175.98E 152km M=3.6
0.5 0.02 0.03 5
Rsd 0.2s 12ph/7stn Dmin 68km Az.gap 212°
Corr. -0.535 11M/9stn Msd 0.2 1↑

92/10255
OCT 11 1502 25.7s 41.20S 172.52E 5km M=3.8
0.2 0.01 0.02 R
Rsd 0.3s 23ph/15stn Dmin 41km Az.gap 137°
Corr. -0.177 9M/5stn Msd 0.2 1↓

92/10256
OCT 11 1505 17.3s 38.21S 176.21E 155km M=4.1
0.5 0.03 0.03 4
Rsd 0.3s 24ph/19stn Dmin 4km Az.gap 60°
Corr. 0.277 21M/21stn Msd 0.3 1↑

92/10264
OCT 12 0348 57.2s 37.43S 176.85E 262km M=3.6
0.9 0.09 0.16 6
Rsd 0.2s 9ph/7stn Dmin 95km Az.gap 305°
Corr. -0.680 6M/6stn Msd 0.1

92/10269
OCT 12 0652 20.7s 38.81S 176.52E 54km M=3.6
0.4 0.02 0.01 7
Rsd 0.3s 23ph/15stn Dmin 9km Az.gap 52°
Corr. -0.195 8M/6stn Msd 0.1 1↑ 1↓

92/10270
OCT 12 0752 40.3s 47.75S 165.49E 33km M=3.9
0.6 0.03 0.06 R
Rsd 0.2s 23ph/14stn Dmin 222km Az.gap 322°
Corr. -0.078 15M/13stn Msd 0.1

92/10285
OCT 13 0520 25.6s 37.59S 178.34E 49km M=3.8
0.2 0.01 0.01 1
Rsd 0.1s 8ph/4stn Dmin 3km Az.gap 262°
Corr. 0.074 5M/3stn Msd 0.2 1↑

92/10289
OCT 13 1452 49.1s 37.69S 176.97E 5km M=3.9
0.3 0.02 0.02 R
Rsd 0.3s 14ph/12stn Dmin 42km Az.gap 132°
Corr. 0.015 19M/16stn Msd 0.3 1↑

92/10293
OCT 13 2131 57.4s 38.99S 178.04E 46km M=4.0
0.4 0.01 0.03 4
Rsd 0.1s 12ph/11stn Dmin 26km Az.gap 203°
Corr. -0.531 21M/17stn Msd 0.2 1↑

92/10296
OCT 13 2358 24.9s 37.71S 176.96E 12km M=3.9
0.7 0.05 0.03 R
Rsd 0.3s 14ph/11stn Dmin 40km Az.gap 183°
Corr. 0.605 15M/11stn Msd 0.2 1↑

92/10305
OCT 14 0506 52.5s 38.14S 176.33E 190km M=3.7
0.4 0.03 0.14 5
Rsd 0.2s 9ph/5stn Dmin 70km Az.gap 266°
Corr. -0.809 5M/4stn Msd 0.2

92/10309
OCT 14 0626 24.2s 38.62S 177.86E 86km M=3.5
0.8 0.04 0.05 7
Rsd 0.6s 9ph/5stn Dmin 16km Az.gap 127°
Corr. -0.183 5M/4stn Msd 0.2 1↑

92/10311
OCT 14 0845 27.4s 42.72S 171.71E 12km M=3.5
0.2 0.01 0.01 R
Rsd 0.3s 14ph/9stn Dmin 47km Az.gap 121°
Corr. -0.273 21M/17stn Msd 0.3

92/10316
OCT 14 1707 12.0s 37.54S 177.60E 101km M=4.2
0.4 0.02 0.02 4
Rsd 0.2s 13ph/9stn Dmin 36km Az.gap 159°
Corr. -0.004 9M/7stn Msd 0.1 1↑

92/10332
OCT 15 0655 22.7s 38.52S 177.92E 40km M=3.5
0.1 0.01 0.00 1
Rsd 0.0s 6ph/3stn Dmin 15km Az.gap 155°
Corr. -0.430 3M/3stn Msd 0.4

92/10352
OCT 15 1532 28.4s 38.45S 175.92E 150km M=3.9
0.4 0.02 0.02 3
Rsd 0.3s 25ph/19stn Dmin 30km Az.gap 71°
Corr. -0.050 20M/18stn Msd 0.3 1↑ 1↓

92/10361
OCT 15 2350 41.6s 39.69S 174.19E 191km M=3.6
0.4 0.01 0.03 4
Rsd 0.1s 17ph/13stn Dmin 125km Az.gap 235°
Corr. -0.496 9M/7stn Msd 0.2 1↑

92/10369
OCT 16 0630 59.2s 38.61S 177.44E 59km M=3.6
0.2 0.01 0.01 2
Rsd 0.1s 20ph/17stn Dmin 43km Az.gap 71°
Corr. 0.547 16M/14stn Msd 0.3 1↓

92/10379
OCT 16 1732 06.2s 37.62S 177.15E 126km M=3.8
0.2 0.01 0.01 2
Rsd 0.1s 14ph/12stn Dmin 71km Az.gap 142°
Corr. 0.279 17M/15stn Msd 0.2 1↑

92/10382
OCT 16 2241 39.1s 38.64S 175.75E 140km M=3.5
0.3 0.01 0.02 3
Rsd 0.2s 12ph/9stn Dmin 61km Az.gap 143°
Corr. -0.328 12M/12stn Msd 0.3 1↑ 2↓

92/10387
OCT 17 0012 40.7s 40.63S 173.37E 147km M=3.5
0.3 0.01 0.02 3
Rsd 0.3s 26ph/19stn Dmin 50km Az.gap 127°
Corr. -0.102 11M/11stn Msd 0.2 4↑ 2↓

92/10393
OCT 17 0635 33.0s 35.45S 178.92E 233km M=4.0
1.6 0.27 0.36 8
Rsd 0.3s 10ph/8stn Dmin 244km Az.gap 341°
Corr. -0.934 5M/5stn Msd 0.3

92/10400
OCT 17 1720 17.6s 36.61S 177.78E 171km M=3.8
0.2 0.01 0.02 2
Rsd 0.1s 7ph/4stn Dmin 119km Az.gap 252°
Corr. 0.050 3M/3stn Msd 0.3

92/10404
OCT 17 2050 39.7s 37.59S 176.48E 193km M=4.2
0.5 0.02 0.03 4
Rsd 0.2s 19ph/16stn Dmin 84km Az.gap 127°
Corr. 0.177 24M/21stn Msd 0.3 1↑

92/10406
OCT 17 2326 08.6s 40.57S 174.83E 60km M=4.1
0.2 0.01 0.01 4
Rsd 0.2s 33ph/25stn Dmin 33km Az.gap 70°
Corr. -0.359 21M/18stn Msd 0.2 1↑

92/10414
OCT 18 1241 43.5s 40.43S 173.37E 153km M=4.3
0.4 0.01 0.02 4
Rsd 0.2s 26ph/22stn Dmin 63km Az.gap 144°
Corr. -0.104 23M/20stn Msd 0.2 1↑

92/10415
OCT 18 1407 30.3s 39.49S 174.43E 136km M=3.6
0.3 0.01 0.02 3
Rsd 0.2s 37ph/21stn Dmin 46km Az.gap 86°
Corr. -0.007 12M/11stn Msd 0.2 1↑

92/10419
OCT 18 1629 14.2s 37.12S 176.92E 231km M=4.2
0.4 0.04 0.05 3
Rsd 0.2s 20ph/16stn Dmin 99km Az.gap 175°
Corr. 0.621 23M/21stn Msd 0.2 1↑

92/10420
OCT 18 2221 26.7s 38.00S 176.39E 156km M=3.9
0.5 0.04 0.04 3
Rsd 0.3s 15ph/12stn Dmin 28km Az.gap 222°
Corr. -0.146 20M/18stn Msd 0.2 1↑ 1↓

92/10426
OCT 19 0340 49.6s 38.50S 175.79E 119km M=3.5
0.7 0.04 0.04 6
Rsd 0.3s 16ph/13stn Dmin 75km Az.gap 219°
Corr. -0.734 20M/19stn Msd 0.3 1↑

92/10429
OCT 19 0508 17.6s 38.36S 176.05E 142km M=3.5
1.5 0.11 0.22 10
Rsd 0.5s 11ph/9stn Dmin 70km Az.gap 230°
Corr. -0.867 14M/14stn Msd 0.3

92/10447
OCT 20 0025 06.8s 39.60S 174.33E 216km M=3.6
0.8 0.03 0.07 8
Rsd 0.3s 15ph/14stn Dmin 57km Az.gap 206°
Corr. -0.420 9M/8stn Msd 0.1

92/10448
OCT 20 0104 36.0s 38.25S 176.14E 151km M=4.2
0.4 0.02 0.02 4
Rsd 0.3s 23ph/17stn Dmin 64km Az.gap 83°
Corr. 0.049 25M/21stn Msd 0.2 4↑ 1↓

92/10452
OCT 20 0535 55.6s 35.41S 179.09E 135km M=4.5
1.1 0.08 0.08 28
Rsd 0.3s 10ph/8stn Dmin 253km Az.gap 311°
Corr. 0.389 21M/19stn Msd 0.2

92/10453
OCT 20 1306 50.3s 39.39S 174.50E 190km M=5.0
0.3 0.01 0.02 3
Rsd 0.2s 39ph/28stn Dmin 49km Az.gap 98°
Corr. -0.073 8M/4stn Msd 0.2 7↑ 5↓

92/10456
OCT 20 1453 18.1s 38.18S 176.25E 157km M=3.7
0.6 0.03 0.04 6
Rsd 0.3s 15ph/10stn Dmin 67km Az.gap 114°
Corr. 0.130 17M/17stn Msd 0.4

92/10459
OCT 20 1603 21.5s 37.80S 178.61E 12km M=3.7
0.5 0.02 0.04 R
Rsd 0.2s 10ph/6stn Dmin 35km Az.gap 259°
Corr. 0.520 10M/8stn Msd 0.2 1↑

92/10478
OCT 21 1244 50.2s 42.23S 172.77E 5km M=3.8
0.1 0.01 0.01 R
Rsd 0.2s 21ph/17stn Dmin 53km Az.gap 99°
Corr. -0.241 25M/20stn Msd 0.2 2↑ 3↓

92/10483
OCT 21 1744 14.9s 38.49S 176.12E 5km M=3.1
0.1 0.01 0.01 R
Rsd 0.3s 17ph/15stn Dmin 16km Az.gap 78°
Corr. -0.110 14M/13stn Msd 0.3 1↑ 3↓
Felt Orakei Korako, Whakamaru (33), Taupo (41).

92/10484
OCT 21 1813 14.7s 38.50S 176.12E 5km M=3.3
0.1 0.01 0.01 R
Rsd 0.3s 19ph/15stn Dmin 16km Az.gap 76°
Corr. -0.109 15M/14stn Msd 0.3 1↓
Felt Orakei Korako, Whakamaru (33), Taupo (41).

92/10496
OCT 22 1252 21.6s 39.78S 174.49E 212km M=3.6
0.3 0.04 0.03 3
Rsd 0.1s 21ph/13stn Dmin 124km Az.gap 189°
Corr. -0.648 15M/13stn Msd 0.2 1↑

92/10504
OCT 22 2357 30.1s 36.75S 178.19E 33km M=3.6
0.8 0.04 0.07 R
Rsd 0.5s 8ph/4stn Dmin 192km Az.gap 275°
Corr. 0.447 5M/3stn Msd 0.2 1↓

92/10505
OCT 23 0123 45.8s 37.74S 177.53E 45km M=3.6
0.2 0.01 0.01 5
Rsd 0.2s 11ph/8stn Dmin 69km Az.gap 133°
Corr. -0.065 10M/8stn Msd 0.2 1↑ 1↓

92/10510
OCT 23 0421 34.7s 36.82S 177.03E 12km M=4.4
0.6 0.04 0.04 R
Rsd 0.4s 11ph/9stn Dmin 117km Az.gap 225°
Corr. 0.789 13M/8stn Msd 0.2

92/10513
OCT 23 0634 15.3s 37.79S 177.58E 47km M=4.2
0.3 0.02 0.01 8
Rsd 0.1s 18ph/17stn Dmin 67km Az.gap 127°
Corr. 0.095 22M/20stn Msd 0.2 2↑ 3↓

92/10517
OCT 23 0843 00.8s 36.08S 177.25E 293km M=4.1
1.2 0.14 0.28 13
Rsd 0.5s 9ph/6stn Dmin 243km Az.gap 318°
Corr. -0.738 3M/3stn Msd 0.2 1↑

92/10518
OCT 23 1049 18.2s 41.64S 178.29E 33km M=4.0
0.6 0.04 0.05 R
Rsd 0.4s 31ph/25stn Dmin 204km Az.gap 240°
Corr. -0.730 32M/31stn Msd 0.3

92/10526
OCT 23 1523 44.4s 36.93S 177.74E 134km M=4.3
0.7 0.04 0.05 8
Rsd 0.3s 16ph/13stn Dmin 158km Az.gap 256°
Corr. 0.695 22M/19stn Msd 0.3 1↓

92/10543
OCT 24 0814 00.8s 38.07S 176.86E 154km M=3.6
0.4 0.03 0.07 3
Rsd 0.2s 8ph/4stn Dmin 30km Az.gap 272°
Corr. -0.520 9M/9stn Msd 0.1 1↑

92/10554
OCT 24 1713 49.8s 40.44S 176.49E 24km M=3.9
0.2 0.01 0.02 1
Rsd 0.2s 39ph/28stn Dmin 25km Az.gap 190°
Corr. -0.703 30M/25stn Msd 0.2 2↑ 1↓

92/10559
OCT 24 1945 10.0s 37.31S 177.26E 186km M=3.6
0.3 0.03 0.04 2
Rsd 0.1s 12ph/9stn Dmin 107km Az.gap 305°
Corr. -0.566 7M/7stn Msd 0.1

92/10586
OCT 25 1437 12.0s 36.69S 177.13E 5km M=4.1
0.7 0.04 0.04 R
Rsd 0.2s 12ph/9stn Dmin 126km Az.gap 232°
Corr. 0.883 8M/6stn Msd 0.2 1↓

92/10608
OCT 26 1428 52.8s 37.19S 176.64E 300km M=4.3
0.5 0.03 0.05 4
Rsd 0.2s 15ph/12stn Dmin 95km Az.gap 203°
Corr. 0.398 21M/17stn Msd 0.2 1↑

92/10609
OCT 26 1839 51.4s 35.94S 178.55E 210km M=3.9
0.3 0.03 0.07 4
Rsd 0.1s 11ph/8stn Dmin 288km Az.gap 338°
Corr. -0.898 5M/5stn Msd 0.2

92/10614
OCT 27 0008 24.7s 40.48S 173.95E 109km M=3.9
0.3 0.01 0.01 3
Rsd 0.2s 43ph/24stn Dmin 36km Az.gap 107°
Corr. 0.018 18M/13stn Msd 0.2 10↑ 5↓

92/10618
OCT 27 0608 03.0s 43.16S 171.36E 12km M=3.7
0.3 0.01 0.01 4
Rsd 0.2s 16ph/9stn Dmin 52km Az.gap 92°
Corr. 0.019 26M/19stn Msd 0.2 1↑ 2↓

92/10619
OCT 27 0741 45.7s 37.76S 177.97E 70km M=3.8
0.2 0.02 0.02 4
Rsd 0.1s 18ph/13stn Dmin 94km Az.gap 238°
Corr. 0.680 19M/17stn Msd 0.2 1↓

92/10628
OCT 27 1104 53.4s 37.28S 176.66E 230km M=3.9
0.9 0.04 0.08 7
Rsd 0.3s 12ph/9stn Dmin 103km Az.gap 159°
Corr. 0.475 18M/18stn Msd 0.3 1↑

92/10658
OCT 28 0944 23.8s 45.28S 167.19E 91km M=4.7
0.4 0.02 0.03 3
Rsd 0.2s 19ph/14stn Dmin 21km Az.gap 205°
Corr. -0.229 21M/14stn Msd 0.2 4↑ 8↓
Felt Manapouri (139) MM3.

92/10669
OCT 28 1615 16.2s 35.96S 178.99E 99km M=4.3
0.4 0.03 0.03 14
Rsd 0.2s 12ph/8stn Dmin 192km Az.gap 286°
Corr. 0.461 20M/18stn Msd 0.1

92/10685
OCT 28 2122 00.5s 36.68S 177.20E 5km M=4.0
0.6 0.05 0.04 R
Rsd 0.5s 10ph/9stn Dmin 94km Az.gap 209°
Corr. 0.676 11M/9stn Msd 0.2

92/10747
OCT 30 2106 21.4s 37.61S 177.24E 122km M=4.0
0.1 0.01 0.01 1
Rsd 0.1s 13ph/7stn Dmin 74km Az.gap 145°
Corr. 0.110 5M/4stn Msd 0.9 1↑

92/10751
OCT 31 0124 07.2s 41.42S 173.12E 92km M=3.7
0.3 0.01 0.01 3
Rsd 0.2s 35ph/19stn Dmin 42km Az.gap 72°
Corr. -0.017 14M/13stn Msd 0.2 2↑ 4↓

92/10764
OCT 31 1541 48.2s 44.99S 167.48E 88km M=3.6
0.4 0.02 0.03 4
Rsd 0.2s 19ph/15stn Dmin 59km Az.gap 200°
Corr. -0.432 17M/15stn Msd 0.2 3↑ 1↓

92/10771
OCT 31 1942 03.3s 38.42S 175.89E 171km M=4.5
0.4 0.02 0.02 4
Rsd 0.3s 37ph/29stn Dmin 32km Az.gap 69°
Corr. -0.060 28M/23stn Msd 0.2 7↑ 1↓

92/10774
OCT 31 2159 27.3s 38.50S 176.48E 117km M=3.8
0.5 0.02 0.02 5
Rsd 0.3s 29ph/22stn Dmin 23km Az.gap 42°
Corr. 0.277 24M/21stn Msd 0.3 1↑

92/10777
NOV 01 0008 39.7s 37.47S 176.09E 292km M=3.7
0.6 0.05 0.08 5
Rsd 0.2s 14ph/10stn Dmin 126km Az.gap 269°
Corr. -0.816 8M/8stn Msd 0.3

92/10779
NOV 01 0205 25.0s 38.94S 175.65E 121km M=4.0
0.4 0.01 0.03 4
Rsd 0.4s 34ph/22stn Dmin 25km Az.gap 61°
Corr. -0.180 24M/20stn Msd 0.2 4↑ 2↓

92/10788
NOV 01 1158 40.6s 43.21S 172.15E 14km M=3.9
0.0 0.00 0.00 1
Rsd 0.1s 19ph/12stn Dmin 48km Az.gap 91°
Corr. -0.039 10M/5stn Msd 0.2 2↑ 1↓

92/10819
NOV 02 2143 39.8s 39.20S 174.79E 194km M=3.8
0.3 0.02 0.03 3
Rsd 0.1s 23ph/15stn Dmin 68km Az.gap 198°
Corr. 0.119 18M/18stn Msd 0.3 1↑

92/10824
NOV 03 0655 22.0s 38.25S 177.15E 203km M=3.6
0.4 0.17 0.42 4
Rsd 0.1s 12ph/8stn Dmin 3km Az.gap 310°
Corr. -0.992 7M/6stn Msd 0.2 1↑

92/10836
NOV 03 1423 01.0s 37.55S 177.43E 111km M=3.7
0.3 0.02 0.02 3
Rsd 0.1s 16ph/14stn Dmin 21km Az.gap 154°
Corr. 0.129 19M/17stn Msd 0.2 3↑ 1↓

92/10840
NOV 03 1741 04.2s 39.39S 179.47E 33km M=3.6
0.7 0.04 0.05 R
Rsd 0.3s 11ph/7stn Dmin 151km Az.gap 256°
Corr. -0.416 15M/13stn Msd 0.2

92/10843
NOV 03 2054 27.4s 39.92S 174.35E 12km M=3.7
0.2 0.01 0.02 R
Rsd 0.3s 26ph/17stn Dmin 52km Az.gap 138°
Corr. -0.361 24M/22stn Msd 0.2

92/10850
NOV 04 0554 14.3s 40.15S 173.65E 162km M=3.6
0.4 0.02 0.02 4
Rsd 0.2s 22ph/16stn Dmin 76km Az.gap 180°
Corr. -0.208 13M/11stn Msd 0.3 1↑ 1↓

92/10860
NOV 04 1216 26.6s 41.34S 172.34E 5km M=3.8
0.1 0.00 0.01 R
Rsd 0.1s 8ph/3stn Dmin 59km Az.gap 152°
Corr. 0.025 3M/3stn Msd 1.5

92/10863
NOV 04 1401 54.2s 36.43S 178.08E 181km M=5.1
0.7 0.04 0.04 7
Rsd 0.4s 21ph/15stn Dmin 132km Az.gap 253°
Corr. 0.385 25M/21stn Msd 0.3 1↑

92/10867
NOV 04 1519 01.5s 35.35S 178.86E 195km M=4.8
0.7 0.04 0.05 7
Rsd 0.1s 12ph/10stn Dmin 254km Az.gap 311°
Corr. 0.727 25M/21stn Msd 0.3

92/10869
NOV 04 1542 46.5s 40.89S 172.53E 5km M=3.9
0.2 0.01 0.02 R
Rsd 0.2s 20ph/15stn Dmin 7km Az.gap 141°
Corr. 0.299 10M/5stn Msd 0.2 1↑

92/10873
NOV 04 1702 04.6s 38.58S 176.20E 109km M=3.5
0.5 0.02 0.02 4
Rsd 0.2s 16ph/11stn Dmin 42km Az.gap 193°
Corr. -0.598 16M/14stn Msd 0.3

92/10875
NOV 04 1754 04.2s 40.06S 176.96E 49km M=3.5
0.2 0.01 0.03 2
Rsd 0.1s 25ph/18stn Dmin 15km Az.gap 216°
Corr. -0.809 12M/11stn Msd 0.3 1↑

92/10876
NOV 04 1805 58.7s 35.24S 178.58E 224km M=4.3
0.3 0.05 0.05 4
Rsd 0.0s 11ph/10stn Dmin 263km Az.gap 334°
Corr. -0.785 17M/17stn Msd 0.2

92/10880
NOV 04 2156 07.5s 37.69S 176.27E 182km M=3.9
0.2 0.01 0.02 2
Rsd 0.1s 18ph/14stn Dmin 97km Az.gap 112°
Corr. 0.320 21M/18stn Msd 0.3

92/10884
NOV 05 0104 20.5s 37.10S 176.71E 193km M=3.7
0.7 0.06 0.07 5
Rsd 0.2s 10ph/9stn Dmin 134km Az.gap 268°
Corr. -0.766 13M/13stn Msd 0.2

92/10886
NOV 05 0231 19.8s 38.14S 175.76E 155km M=3.7
0.4 0.03 0.07 5
Rsd 0.2s 23ph/17stn Dmin 119km Az.gap 227°
Corr. -0.848 17M/17stn Msd 0.2 1↑

92/10888
NOV 05 0403 01.1s 37.55S 178.91E 33km M=3.5
1.2 0.06 0.10 R
Rsd 0.5s 10ph/6stn Dmin 54km Az.gap 287°
Corr. 0.355 7M/5stn Msd 0.3

92/10889
NOV 05 0628 45.5s 38.24S 176.07E 157km M=3.6
0.4 0.04 0.14 6
Rsd 0.2s 14ph/8stn Dmin 91km Az.gap 240°
Corr. -0.883 7M/7stn Msd 0.4

92/10899
NOV 05 1259 33.6s 37.43S 178.05E 76km M=3.8
0.3 0.01 0.02 3
Rsd 0.1s 12ph/8stn Dmin 29km Az.gap 200°
Corr. -0.414 5M/3stn Msd 0.1 1↑ 2↓

92/10904
NOV 05 2047 01.5s 45.34S 166.88E 23km M=3.7
0.2 0.01 0.02 1
Rsd 0.1s 19ph/13stn Dmin 26km Az.gap 270°
Corr. 0.436 21M/17stn Msd 0.2 1↑

92/10906
NOV 05 2204 15.3s 37.01S 177.64E 137km M=3.9
0.3 0.02 0.02 3
Rsd 0.1s 13ph/9stn Dmin 88km Az.gap 207°
Corr. 0.361 15M/13stn Msd 0.3

92/10919
NOV 06 0953 57.9s 38.28S 176.13E 170km M=4.3
0.5 0.02 0.02 4
Rsd 0.3s 30ph/23stn Dmin 13km Az.gap 57°
Corr. -0.028 27M/22stn Msd 0.2 6↑ 2↓

92/10921
NOV 06 1150 32.2s 35.92S 179.36E 258km M=3.6
0.3 0.06 0.09 3
Rsd 0.1s 6ph/4stn Dmin 209km Az.gap 350°
Corr. -0.941 2M/2stn Msd 0.1

92/10923
NOV 06 1230 34.8s 45.13S 166.77E 22km M=4.1
0.2 0.01 0.02 1
Rsd 0.1s 18ph/13stn Dmin 48km Az.gap 255°
Corr. -0.095 20M/15stn Msd 0.1 1↓

92/10924
NOV 06 1312 50.0s 38.67S 178.68E 52km M=3.5
0.3 0.02 0.02 3
Rsd 0.1s 6ph/3stn Dmin 57km Az.gap 292°
Corr. -0.555 3M/3stn Msd 0.1

92/10928
NOV 06 1711 47.2s 38.34S 175.70E 184km M=3.5
0.8 0.12 0.20 25
Rsd 0.3s 13ph/11stn Dmin 243km Az.gap 227°
Corr. -0.977 6M/6stn Msd 0.1

92/10937
NOV 07 0048 56.0s 37.15S 175.99E 276km M=3.7
0.5 0.05 0.07 4
Rsd 0.2s 13ph/11stn Dmin 158km Az.gap 290°
Corr. -0.797 8M/8stn Msd 0.2 1↑ 1↓

92/10948
NOV 07 0722 52.4s 38.70S 176.10E 203km M=3.5
0.2 0.04 0.03 4
Rsd 0.0s 11ph/9stn Dmin 219km Az.gap 341°
Corr. 0.150 6M/6stn Msd 0.3

92/10952
NOV 07 0858 35.3s 39.76S 176.83E 28km M=4.0
0.1 0.01 0.02 1
Rsd 0.2s 35ph/29stn Dmin 12km Az.gap 151°
Corr. -0.486 31M/27stn Msd 0.2 2↑ 3↓
Felt Patoka (52), Bridge Pa (60) MM4.

92/10963
NOV 07 2351 28.6s 45.37S 167.20E 96km M=4.5
0.3 0.02 0.02 2
Rsd 0.2s 22ph/15stn Dmin 12km Az.gap 205°
Corr. -0.249 19M/12stn Msd 0.1 2↑ 5↓

92/10991
NOV 08 1828 02.1s 37.96S 177.35E 66km M=3.5
0.1 0.01 0.01 2
Rsd 0.1s 20ph/17stn Dmin 40km Az.gap 113°
Corr. -0.247 18M/16stn Msd 0.3 1↑

92/11005
NOV 09 0554 26.6s 39.29S 174.72E 20km M=3.9
0.2 0.01 0.02 2
Rsd 0.2s 31ph/24stn Dmin 59km Az.gap 128°
Corr. -0.110 8M/4stn Msd 0.2 1↑

92/11013
NOV 09 1147 00.4s 37.18S 177.21E 144km M=3.7
0.4 0.02 0.02 4
Rsd 0.2s 15ph/12stn Dmin 107km Az.gap 186°
Corr. 0.424 18M/18stn Msd 0.1 1↑

92/11025
NOV 09 1832 30.3s 37.32S 177.71E 108km M=3.7
1.4 0.06 0.04 13
Rsd 0.2s 11ph/9stn Dmin 61km Az.gap 239°
Corr. 0.234 12M/12stn Msd 0.1

92/11029
NOV 09 2256 44.1s 39.55S 178.77E 22km M=3.6
0.3 0.01 0.03 2
Rsd 0.1s 16ph/12stn Dmin 86km Az.gap 237°
Corr. -0.363 26M/26stn Msd 0.2 1↑

92/11031
NOV 10 0034 36.1s 37.27S 179.89E 33km M=3.6
0.7 0.02 0.07 R
Rsd 0.1s 7ph/5stn Dmin 145km Az.gap 305°
Corr. -0.539 3M/3stn Msd 0.2

92/11034
NOV 10 0406 18.7s 37.95S 176.58E 175km M=3.6
0.2 0.10 0.28 8
Rsd 0.1s 9ph/3stn Dmin 58km Az.gap 290°
Corr. -0.992 2M/2stn Msd 0.2

92/11037
NOV 10 0650 18.4s 38.87S 175.44E 159km M=4.0
0.6 0.02 0.03 5
Rsd 0.4s 34ph/22stn Dmin 20km Az.gap 78°
Corr. -0.058 25M/23stn Msd 0.3 4↑ 1↓

92/11067
NOV 11 0718 16.1s 38.60S 178.61E 42km M=3.6
0.0 0.00 0.00 1
Rsd 0.0s 9ph/7stn Dmin 50km Az.gap 232°
Corr. -0.598 16M/14stn Msd 0.3 2↑ 1↓

92/11071
NOV 11 0837 27.0s 37.47S 176.77E 151km M=3.7
0.3 0.02 0.03 3
Rsd 0.2s 13ph/10stn Dmin 93km Az.gap 147°
Corr. 0.434 23M/21stn Msd 0.4 1↑ 1↓

92/11072
NOV 11 0920 31.6s 42.31S 172.51E 5km M=3.5
0.2 0.01 0.02 R
Rsd 0.4s 26ph/14stn Dmin 56km Az.gap 77°
Corr. -0.316 27M/23stn Msd 0.2 2↑ 2↓

92/11078
NOV 11 1207 00.4s 38.94S 176.21E 76km M=4.7
0.2 0.01 0.01 3
Rsd 0.3s 43ph/31stn Dmin 26km Az.gap 42°
Corr. 0.009 23M/17stn Msd 0.2 11↑ 7↓

92/11095
NOV 12 0015 48.2s 39.63S 174.10E 183km M=3.6
0.4 0.02 0.02 5
Rsd 0.2s 27ph/18stn Dmin 131km Az.gap 204°
Corr. -0.391 16M/14stn Msd 0.3 1↑

92/11099
NOV 12 0203 19.3s 37.67S 177.46E 123km M=3.6
0.4 0.04 0.06 2
Rsd 0.1s 8ph/4stn Dmin 72km Az.gap 237°
Corr. -0.953 5M/3stn Msd 0.4

92/11103
NOV 12 0623 50.0s 41.21S 172.78E 194km M=3.9
0.3 0.02 0.02 2
Rsd 0.2s 30ph/17stn Dmin 48km Az.gap 99°
Corr. -0.118 13M/12stn Msd 0.6 3↑ 2↓

92/11114
NOV 12 2102 52.1s 39.74S 174.45E 134km M=4.3
0.3 0.01 0.02 3
Rsd 0.2s 42ph/29stn Dmin 42km Az.gap 140°
Corr. -0.216 26M/21stn Msd 0.4 5↑ 4↓

92/11115
NOV 12 2111 47.3s 38.49S 175.02E 205km M=3.8
0.6 0.04 0.08 10
Rsd 0.3s 26ph/20stn Dmin 136km Az.gap 224°
Corr. -0.863 22M/19stn Msd 0.4

92/11127
NOV 13 0338 45.8s 38.34S 176.14E 5km M=2.8
0.1 0.01 0.01 R
Rsd 0.2s 16ph/9stn Dmin 11km Az.gap 147°
Corr. -0.069 6M/5stn Msd 0.3
Felt Ngakuru (33) MM4.

92/11131
NOV 13 0459 30.8s 40.20S 173.51E 162km M=3.7
0.3 0.01 0.01 3
Rsd 0.1s 35ph/22stn Dmin 75km Az.gap 188°
Corr. -0.161 14M/12stn Msd 0.2 2↑ 2↓

92/11133
NOV 13 0616 38.3s 39.48S 174.31E 212km M=4.1
0.4 0.01 0.03 3
Rsd 0.2s 37ph/25stn Dmin 64km Az.gap 157°
Corr. -0.082 22M/18stn Msd 0.3 1↑

92/11157
NOV 13 0816 49.3s 38.68S 175.32E 200km M=3.8
0.8 0.04 0.05 6
Rsd 0.3s 19ph/11stn Dmin 60km Az.gap 210°
Corr. -0.566 20M/17stn Msd 0.4 1↑

92/11166
NOV 13 0947 08.9s 38.34S 176.15E 5km M=2.6
0.1 0.01 0.01 R
Rsd 0.3s 14ph/9stn Dmin 11km Az.gap 146°
Corr. 0.132 4M/4stn Msd 0.2 1↑
Felt Ngakuru (33).

92/11170
NOV 13 0949 52.7s 38.33S 176.15E 5km M=2.5
0.2 0.01 0.01 R
Rsd 0.2s 11ph/6stn Dmin 11km Az.gap 140°
Corr. 0.361 5M/5stn Msd 0.3
Felt Ngakuru (33).

92/11172
NOV 13 0953 37.2s 38.33S 176.15E 5km M=2.9
0.1 0.01 0.01 R
Rsd 0.1s 13ph/8stn Dmin 11km Az.gap 138°
Corr. 0.228 5M/5stn Msd 0.2
Felt Ngakuru (33).

92/11223
NOV 13 1250 43.7s 38.34S 176.13E 5km M=2.9
0.1 0.01 0.01 R
Rsd 0.2s 12ph/9stn Dmin 12km Az.gap 95°
Corr. 0.061 9M/8stn Msd 0.3
Felt Ngakuru (33) MM4.

92/11231
NOV 13 1326 13.2s 37.30S 177.25E 169km M=3.6
0.2 0.02 0.02 1
Rsd 0.1s 12ph/10stn Dmin 107km Az.gap 309°
Corr. -0.465 8M/6stn Msd 0.5

92/11239
NOV 13 1351 15.8s 38.35S 176.13E 5km M=2.7
0.1 0.01 0.01 R
Rsd 0.1s 8ph/4stn Dmin 12km Az.gap 156°
Corr. 0.313 4M/4stn Msd 0.2
Felt Ngakuru (33).

92/11244
NOV 13 1404 00.3s 38.45S 176.22E 5km M=2.7
1.0 0.05 0.03 R
Rsd 0.3s 7ph/4stn Dmin 9km Az.gap 273°
Corr. -0.024 3M/3stn Msd 0.2
Felt Ngakuru (33).

92/11247
NOV 13 1413 34.3s 38.31S 176.16E 5km M=2.9
0.1 0.01 0.01 R
Rsd 0.3s 13ph/9stn Dmin 12km Az.gap 87°
Corr. -0.209 6M/5stn Msd 0.2 1↑
Felt Ngakuru (33).

92/11274
NOV 13 1723 25.5s 37.81S 177.57E 49km M=3.6
0.2 0.01 0.01 3
Rsd 0.2s 11ph/8stn Dmin 46km Az.gap 119°
Corr. 0.287 5M/3stn Msd 0.2

92/11275
NOV 13 1809 03.9s 38.32S 176.13E 5km M=3.3
0.1 0.01 0.01 R
Rsd 0.2s 18ph/13stn Dmin 13km Az.gap 57°
Corr. -0.244 13M/11stn Msd 0.2
Felt Ngakuru (33) MM4.

92/11282
NOV 14 0241 18.5s 36.85S 176.90E 271km M=4.4
0.5 0.03 0.05 4
Rsd 0.2s 16ph/14stn Dmin 106km Az.gap 208°
Corr. 0.424 24M/21stn Msd 0.3

92/11283
NOV 14 0324 23.3s 38.34S 176.15E 5km M=2.8
0.2 0.01 0.01 R
Rsd 0.2s 13ph/8stn Dmin 11km Az.gap 148°
Corr. -0.039 5M/4stn Msd 0.2
Felt Ngakuru (33) MM4.

92/11284
NOV 14 0349 32.5s 40.65S 174.84E 14km M=3.5
0.1 0.01 0.01 1
Rsd 0.2s 37ph/26stn Dmin 25km Az.gap 96°
Corr. -0.326 24M/21stn Msd 0.2 3↑ 2↓

92/11289
NOV 14 0527 58.9s 37.41S 176.90E 168km M=4.0
0.3 0.02 0.02 3
Rsd 0.2s 15ph/13stn Dmin 96km Az.gap 155°
Corr. 0.375 21M/19stn Msd 0.1 1↑

92/11296
NOV 14 1007 20.8s 38.35S 176.17E 5km M=2.6
0.2 0.02 0.02 R
Rsd 0.4s 11ph/6stn Dmin 9km Az.gap 144°
Corr. 0.277 4M/4stn Msd 0.2 1↑
Felt Ngakuru (33) MM4.

92/11298
NOV 14 1045 17.1s 37.41S 176.47E 213km M=3.9
0.6 0.03 0.05 5
Rsd 0.2s 13ph/10stn Dmin 99km Az.gap 140°
Corr. 0.520 21M/20stn Msd 0.3

92/11308
NOV 14 1953 00.5s 37.24S 177.84E 92km M=3.8
0.1 0.01 0.01 2
Rsd 0.1s 10ph/8stn Dmin 57km Az.gap 209°
Corr. 0.254 13M/11stn Msd 0.3 1↓

92/11333
NOV 15 1403 46.8s 35.06S 178.29E 251km M=4.0
0.6 0.10 0.15 13
Rsd 0.1s 12ph/5stn Dmin 371km Az.gap 337°
Corr. -0.383 14M/12stn Msd 0.6

92/11343
NOV 15 2236 07.5s 36.92S 179.51E 12km M=3.9
1.6 0.07 0.13 R
Rsd 0.5s 8ph/5stn Dmin 131km Az.gap 292°
Corr. 0.220 7M/5stn Msd 0.4

92/11347
NOV 16 0132 23.8s 44.24S 167.80E 5km M=3.6
0.3 0.02 0.03 R
Rsd 0.2s 13ph/12stn Dmin 131km Az.gap 211°
Corr. -0.715 17M/13stn Msd 0.1

92/11356
NOV 16 0655 12.8s 37.81S 176.31E 168km M=3.5
1.0 0.06 0.08 7
Rsd 0.3s 11ph/10stn Dmin 86km Az.gap 232°
Corr. -0.762 15M/15stn Msd 0.2

92/11357
NOV 16 0759 01.0s 39.24S 175.14E 141km M=3.8
0.3 0.01 0.03 2
Rsd 0.2s 36ph/25stn Dmin 31km Az.gap 174°
Corr. -0.237 22M/20stn Msd 0.2 2↑

92/11392
NOV 17 1031 38.1s 37.32S 176.54E 227km M=3.9
0.4 0.02 0.04 3
Rsd 0.2s 13ph/11stn Dmin 97km Az.gap 151°
Corr. 0.305 17M/16stn Msd 0.2

92/11394
NOV 17 1108 57.3s 38.22S 176.13E 147km M=3.9
0.3 0.02 0.02 2
Rsd 0.2s 17ph/13stn Dmin 81km Az.gap 133°
Corr. -0.194 21M/20stn Msd 0.3 1↑

92/11396
NOV 17 1535 41.7s 36.54S 177.36E 168km M=3.7
0.8 0.07 0.10 6
Rsd 0.2s 12ph/6stn Dmin 145km Az.gap 299°
Corr. -0.855 9M/9stn Msd 0.2

92/11412
NOV 18 0457 40.1s 38.63S 175.72E 157km M=4.2
0.4 0.02 0.02 4
Rsd 0.3s 32ph/23stn Dmin 54km Az.gap 74°
Corr. -0.101 26M/23stn Msd 0.3 5↑ 2↓

92/11426
NOV 19 0108 43.3s 38.67S 175.25E 232km M=4.0
0.8 0.04 0.04 6
Rsd 0.3s 17ph/11stn Dmin 43km Az.gap 141°
Corr. -0.178 18M/16stn Msd 0.2

92/11429
NOV 19 0435 03.6s 40.57S 173.14E 234km M=3.6
0.3 0.03 0.02 2
Rsd 0.2s 28ph/16stn Dmin 59km Az.gap 211°
Corr. -0.145 8M/8stn Msd 0.2 1↑

92/11441
NOV 19 1510 19.8s 39.77S 175.45E 17km M=3.4
0.1 0.01 0.01 2
Rsd 0.3s 28ph/18stn Dmin 45km Az.gap 72°
Corr. 0.085 17M/15stn Msd 0.3 2↑ 3↓
Felt Marton (62).

92/11447
NOV 19 2105 53.5s 38.95S 175.70E 109km M=4.6
0.3 0.01 0.02 3
Rsd 0.2s 36ph/24stn Dmin 26km Az.gap 54°
Corr. -0.303 27M/22stn Msd 0.2 7↑ 1↓

92/11450
NOV 20 0218 19.5s 39.17S 175.33E 130km M=3.8
0.4 0.02 0.03 3
Rsd 0.3s 31ph/25stn Dmin 15km Az.gap 149°
Corr. -0.480 20M/20stn Msd 0.3 1↑

92/11454
NOV 20 0843 01.9s 41.06S 172.97E 176km M=4.4
0.4 0.02 0.02 3
Rsd 0.2s 30ph/22stn Dmin 45km Az.gap 86°
Corr. -0.285 25M/20stn Msd 0.2 11↑ 3↓

92/11457
NOV 20 0936 48.0s 40.36S 173.48E 188km M=3.6
0.3 0.02 0.02 3
Rsd 0.2s 25ph/18stn Dmin 62km Az.gap 172°
Corr. -0.213 13M/11stn Msd 0.2 1↑

92/11471
NOV 20 1654 33.9s 40.09S 174.83E 28km M=3.7
0.2 0.01 0.02 2
Rsd 0.3s 36ph/27stn Dmin 33km Az.gap 113°
Corr. -0.402 33M/29stn Msd 0.2 1↑

92/11478
NOV 21 0044 16.3s 44.56S 167.03E 5km M=4.3
0.4 0.02 0.03 R
Rsd 0.2s 20ph/14stn Dmin 101km Az.gap 220°
Corr. -0.730 8M/5stn Msd 0.1 1↓

92/11479
NOV 21 0110 06.9s 41.79S 174.51E 37km M=3.7
0.1 0.01 0.01 3
Rsd 0.2s 30ph/22stn Dmin 52km Az.gap 152°
Corr. -0.594 12M/11stn Msd 0.2 3↑ 8↓

92/11480
NOV 21 0111 30.3s 38.35S 176.26E 126km M=3.9
0.6 0.04 0.03 4
Rsd 0.2s 20ph/16stn Dmin 63km Az.gap 164°
Corr. -0.228 20M/17stn Msd 0.3 1↑

92/11488
NOV 21 0728 59.6s 40.18S 174.43E 77km M=3.5
0.2 0.01 0.01 3
Rsd 0.2s 38ph/22stn Dmin 61km Az.gap 125°
Corr. -0.432 20M/17stn Msd 0.2

92/11505
NOV 21 2309 13.8s 45.54S 166.98E 64km M=3.9
0.3 0.01 0.02 1
Rsd 0.1s 19ph/14stn Dmin 16km Az.gap 253°
Corr. 0.034 21M/14stn Msd 0.2 1↓

92/11510
NOV 22 0400 03.1s 44.61S 168.19E 77km M=4.2
0.5 0.03 0.03 9
Rsd 0.4s 28ph/17stn Dmin 87km Az.gap 182°
Corr. -0.645 8M/5stn Msd 0.2 1↑ 2↓

92/11514
NOV 22 1337 08.5s 42.55S 173.16E 40km M=3.6
0.1 0.01 0.01 3
Rsd 0.2s 29ph/20stn Dmin 35km Az.gap 134°
Corr. -0.482 12M/10stn Msd 0.3 1↑

92/11531
NOV 23 0317 35.6s 41.28S 172.88E 133km M=3.7
0.3 0.01 0.02 3
Rsd 0.3s 32ph/21stn Dmin 54km Az.gap 91°
Corr. -0.201 14M/12stn Msd 0.2 8↑ 1↓

92/11533
NOV 23 0652 10.1s 37.91S 177.83E 72km M=3.7
0.2 0.01 0.01 2
Rsd 0.1s 18ph/14stn Dmin 54km Az.gap 117°
Corr. -0.076 16M/14stn Msd 0.2 1↑ 1↓

92/11542
NOV 23 1846 03.4s 36.93S 177.61E 141km M=4.7
0.5 0.03 0.03 6
Rsd 0.2s 16ph/11stn Dmin 96km Az.gap 210°
Corr. 0.475 27M/23stn Msd 0.3 1↓

92/11552
NOV 23 2220 22.0s 38.16S 176.00E 161km M=3.9
0.4 0.02 0.03 4
Rsd 0.2s 15ph/12stn Dmin 91km Az.gap 102°
Corr. 0.090 17M/15stn Msd 0.2 1↓

92/11557
NOV 24 0148 22.4s 37.57S 177.28E 129km M=3.5
0.7 0.06 0.07 5
Rsd 0.4s 8ph/5stn Dmin 78km Az.gap 249°
Corr. -0.789 4M/3stn Msd 0.2

92/11569
NOV 24 0927 37.2s 36.26S 179.84W 162km M=4.1
2.7 0.15 0.24 25
Rsd 0.7s 6ph/5stn Dmin 223km Az.gap 314°
Corr. 0.475 2M/2stn Msd 0.0

92/11585
NOV 24 2221 17.4s 35.46S 178.70E 303km M=3.9
0.3 0.04 0.10 3
Rsd 0.0s 8ph/7stn Dmin 342km Az.gap 350°
Corr. -0.902 5M/5stn Msd 0.2

92/11609
NOV 25 1755 24.4s 37.61S 176.53E 184km M=4.0
0.4 0.03 0.03 3
Rsd 0.3s 19ph/15stn Dmin 87km Az.gap 127°
Corr. -0.110 23M/22stn Msd 0.2 2↑ 1↓

92/11617
NOV 26 0055 53.1s 44.86S 167.35E 50km M=4.0
0.3 0.02 0.02 6
Rsd 0.1s 22ph/15stn Dmin 69km Az.gap 212°
Corr. -0.163 19M/12stn Msd 0.3 6↑ 4↓

92/11670
NOV 27 1559 12.5s 43.17S 170.71E 6km M=5.3
0.1 0.01 0.01 1
Rsd 0.1s 27ph/19stn Dmin 11km Az.gap 130°
Corr. -0.254 21M/11stn Msd 0.3 7↑ 3↓
Felt Westland (79,86,98,104) and Erewhon (106) MM4.

92/11673
NOV 27 1842 32.6s 39.62S 174.17E 186km M=3.9
0.3 0.01 0.02 3
Rsd 0.2s 43ph/27stn Dmin 123km Az.gap 158°
Corr. -0.250 24M/22stn Msd 0.2 4↑ 1↓

92/11678
NOV 27 2148 49.8s 40.33S 173.66E 149km M=3.8
0.3 0.02 0.01 3
Rsd 0.2s 42ph/26stn Dmin 57km Az.gap 146°
Corr. -0.106 15M/13stn Msd 0.2 5↑ 1↓

92/11684
NOV 27 2317 49.7s 41.81S 172.65E 78km M=3.8
0.2 0.01 0.02 2
Rsd 0.2s 29ph/17stn Dmin 21km Az.gap 80°
Corr. -0.029 14M/12stn Msd 0.2 3↑ 2↓

92/11693
NOV 28 0417 08.1s 38.22S 175.93E 165km M=3.8
0.5 0.03 0.02 4
Rsd 0.3s 21ph/15stn Dmin 48km Az.gap 111°
Corr. -0.086 24M/22stn Msd 0.2

92/11724
NOV 28 2233 15.0s 37.14S 176.92E 253km M=4.7
0.4 0.06 0.04 4
Rsd 0.1s 17ph/15stn Dmin 126km Az.gap 238°
Corr. 0.385 29M/24stn Msd 0.2 1↑

92/11730
NOV 29 0051 26.7s 37.68S 176.21E 189km M=3.7
0.2 0.03 0.03 2
Rsd 0.1s 11ph/9stn Dmin 102km Az.gap 239°
Corr. -0.688 19M/19stn Msd 0.1 1↑

92/11732
NOV 29 0313 38.7s 44.68S 167.22E 0km M=4.5
0.4 0.02 0.02 R
Rsd 0.2s 21ph/15stn Dmin 56km Az.gap 221°
Corr. -0.836 11M/6stn Msd 0.1 3↑ 5↓

92/11744
NOV 29 1307 06.9s 38.32S 175.81E 176km M=3.9
0.5 0.03 0.03 4
Rsd 0.2s 17ph/13stn Dmin 54km Az.gap 115°
Corr. -0.067 26M/24stn Msd 0.2 1↑

92/11746
NOV 29 1336 08.6s 40.15S 174.05E 118km M=3.9
0.3 0.01 0.02 4
Rsd 0.2s 37ph/28stn Dmin 73km Az.gap 141°
Corr. -0.316 24M/22stn Msd 0.2 6↑ 5↓

92/11751
NOV 29 1926 44.8s 38.18S 175.68E 168km M=3.7
0.4 0.03 0.07 5
Rsd 0.1s 12ph/9stn Dmin 106km Az.gap 233°
Corr. -0.695 22M/20stn Msd 0.1

92/11754
NOV 29 2005 21.9s 38.19S 176.22E 157km M=3.5
0.4 0.07 0.18 8
Rsd 0.1s 14ph/10stn Dmin 78km Az.gap 250°
Corr. -0.980 8M/8stn Msd 0.3 1↑

92/11760
NOV 30 0116 43.0s 37.74S 176.14E 112km M=3.6
0.3 0.04 0.20 18
Rsd 0.1s 12ph/7stn Dmin 96km Az.gap 227°
Corr. -0.934 5M/5stn Msd 0.2 1↑

92/11764
NOV 30 0853 34.4s 40.79S 173.33E 149km M=3.6
0.3 0.02 0.02 3
Rsd 0.3s 34ph/22stn Dmin 50km Az.gap 121°
Corr. -0.258 14M/13stn Msd 0.2 4↑ 2↓

92/11765
NOV 30 0916 46.8s 41.88S 171.63E 12km M=3.4
0.2 0.01 0.01 1
Rsd 0.1s 17ph/11stn Dmin 20km Az.gap 184°
Corr. -0.609 17M/13stn Msd 0.1 1↑
Felt Westport (79) MM4.

92/11774
NOV 30 1459 30.6s 41.35S 173.13E 90km M=4.3
0.3 0.01 0.02 3
Rsd 0.2s 34ph/21stn Dmin 49km Az.gap 71°
Corr. 0.043 20M/15stn Msd 0.2 2↑ 5↓

92/11775
NOV 30 1524 16.6s 36.23S 177.07E 267km M=3.7
0.5 0.06 0.09 5
Rsd 0.1s 12ph/8stn Dmin 188km Az.gap 299°
Corr. -0.855 14M/14stn Msd 0.2

92/11786
NOV 30 2130 52.0s 37.65S 176.14E 157km M=3.5
0.6 0.04 0.07 3
Rsd 0.1s 14ph/11stn Dmin 109km Az.gap 247°
Corr. -0.902 12M/12stn Msd 0.2

92/10794
DEC 01 0636 28.7s 37.06S 177.58E 127km M=4.8
0.2 0.02 0.01 3
Rsd 0.1s 20ph/16stn Dmin 63km Az.gap 251°
Corr. 0.179 28M/24stn Msd 0.2 1↓

92/10796
DEC 01 0702 40.5s 44.67S 167.25E 5km M=3.7
0.4 0.02 0.03 R
Rsd 0.2s 22ph/16stn Dmin 54km Az.gap 222°
Corr. -0.820 17M/14stn Msd 0.2

92/10799
DEC 01 0902 42.1s 37.04S 179.31W 33km M=3.5
0.2 0.05 0.04 R
Rsd 0.0s 5ph/3stn Dmin 221km Az.gap 350°
Corr. -0.863 2M/2stn Msd 0.1

92/10809
DEC 01 1823 33.4s 40.39S 176.83E 21km M=4.4
0.2 0.01 0.02 2
Rsd 0.2s 40ph/32stn Dmin 45km Az.gap 187°
Corr. -0.723 9M/5stn Msd 0.2 1↑ 3↓

92/10814
DEC 01 2013 21.7s 37.08S 176.35E 243km M=3.6
0.8 0.08 0.12 7
Rsd 0.3s 7ph/4stn Dmin 147km Az.gap 278°
Corr. -0.844 3M/3stn Msd 0.2

92/10816
DEC 01 2327 18.1s 37.11S 177.38E 149km M=3.9
0.3 0.02 0.02 3
Rsd 0.1s 11ph/9stn Dmin 98km Az.gap 243°
Corr. 0.154 20M/20stn Msd 0.2

92/10819
DEC 02 0106 00.6s 39.60S 174.45E 219km M=3.5
0.3 0.01 0.04 3
Rsd 0.1s 19ph/13stn Dmin 47km Az.gap 195°
Corr. -0.418 12M/11stn Msd 0.2 1↑

92/10834
DEC 02 1622 57.5s 37.20S 176.64E 217km M=3.7
0.4 0.05 0.05 3
Rsd 0.1s 13ph/8stn Dmin 124km Az.gap 257°
Corr. -0.715 18M/18stn Msd 0.2

92/10841
DEC 02 2236 13.9s 39.60S 174.94E 111km M=4.4
0.1 0.00 0.01 1
Rsd 0.2s 50ph/33stn Dmin 22km Az.gap 118°
Corr. -0.167 29M/23stn Msd 0.3 13↑ 7↓

92/10865
DEC 04 0059 00.9s 38.23S 176.03E 155km M=3.7
0.4 0.03 0.02 3
Rsd 0.2s 16ph/11stn Dmin 95km Az.gap 240°
Corr. -0.590 17M/15stn Msd 0.2 1↑

92/10871
DEC 04 0610 09.6s 38.23S 178.28E 44km M=3.6
0.0 0.00 0.00 1
Rsd 0.0s 5ph/3stn Dmin 48km Az.gap 205°
Corr. -0.805 4M/3stn Msd 0.2 2↑ 1↓

92/10873
DEC 04 0747 10.7s 41.67S 172.06E 5km M=3.3
0.2 0.01 0.01 R
Rsd 0.3s 21ph/12stn Dmin 23km Az.gap 135°
Corr. -0.241 15M/13stn Msd 0.1 1↓
Felt Westport (79) MM3.

92/10882
DEC 04 1238 14.0s 44.35S 168.10E 12km M=4.0
0.2 0.02 0.02 R
Rsd 0.2s 20ph/15stn Dmin 110km Az.gap 193°
Corr. -0.258 23M/17stn Msd 0.2 1↓

92/10883
DEC 04 1301 31.8s 42.02S 171.82E 5km M=4.3
0.1 0.01 0.02 R
Rsd 0.2s 18ph/10stn Dmin 30km Az.gap 131°
Corr. -0.246 11M/6stn Msd 0.2 1↑ 1↓
Felt Westport (79) MM4.

92/10890
DEC 04 2145 47.8s 41.95S 171.77E 13km M=4.4
0.2 0.01 0.02 3
Rsd 0.3s 23ph/10stn Dmin 23km Az.gap 141°
Corr. -0.258 10M/5stn Msd 0.2 1↓
Felt Westport (79) to Paroa (92) MM4.

92/10895
DEC 05 0051 24.8s 38.63S 177.46E 37km M=4.3
0.2 0.01 0.01 5
Rsd 0.2s 26ph/21stn Dmin 43km Az.gap 61°
Corr. 0.098 23M/20stn Msd 0.2 2↑ 2↓

92/10896
DEC 05 0245 04.2s 35.63S 179.60E 126km M=4.7
1.3 0.12 0.09 23
Rsd 0.2s 10ph/8stn Dmin 248km Az.gap 297°
Corr. 0.508 18M/17stn Msd 0.2

92/10900
DEC 05 0439 55.5s 38.60S 175.59E 210km M=3.6
0.3 0.02 0.05 3
Rsd 0.1s 16ph/10stn Dmin 64km Az.gap 314°
Corr. 0.024 6M/6stn Msd 0.1

92/10914
DEC 05 1842 04.2s 38.23S 176.43E 120km M=4.1
0.3 0.02 0.01 3
Rsd 0.2s 28ph/18stn Dmin 7km Az.gap 128°
Corr. 0.004 25M/22stn Msd 0.2 2↑ 5↓

92/10917
DEC 05 1939 36.2s 39.66S 174.06E 178km M=3.6
0.3 0.01 0.02 3
Rsd 0.2s 30ph/19stn Dmin 128km Az.gap 195°
Corr. -0.363 12M/10stn Msd 0.2 1↑

92/10919
DEC 05 2058 47.4s 37.93S 176.42E 163km M=3.5
0.4 0.02 0.02 3
Rsd 0.2s 15ph/8stn Dmin 71km Az.gap 163°
Corr. 0.071 7M/7stn Msd 0.2

92/10921
DEC 05 2318 51.4s 41.97S 171.78E 12km M=4.3
0.2 0.01 0.02 R
Rsd 0.3s 18ph/11stn Dmin 25km Az.gap 139°
Corr. -0.254 10M/5stn Msd 0.2 1↓
Felt Westport (79) MM4.

92/10922
DEC 05 2357 29.1s 36.29S 179.84W 33km M=4.6
1.0 0.08 0.08 R
Rsd 0.2s 11ph/10stn Dmin 220km Az.gap 292°
Corr. 0.074 30M/27stn Msd 0.3

92/10926
DEC 06 0419 48.4s 37.46S 176.49E 216km M=3.7
0.4 0.04 0.07 3
Rsd 0.1s 11ph/7stn Dmin 104km Az.gap 290°
Corr. -0.773 3M/3stn Msd 0.2

92/10932
DEC 06 0758 04.1s 39.16S 174.79E 208km M=4.4
0.4 0.02 0.03 3
Rsd 0.2s 39ph/30stn Dmin 53km Az.gap 135°
Corr. -0.168 24M/22stn Msd 0.2 6↑ 1↓

92/10935
DEC 06 0843 03.5s 38.19S 176.13E 146km M=3.9
0.5 0.03 0.02 4
Rsd 0.2s 18ph/14stn Dmin 86km Az.gap 179°
Corr. 0.059 23M/20stn Msd 0.2 1↑

92/10943
DEC 06 1259 32.4s 40.23S 179.09E 33km M=3.5
0.4 0.02 0.04 R
Rsd 0.2s 15ph/7stn Dmin 201km Az.gap 259°
Corr. -0.703 7M/7stn Msd 0.2

92/10955
DEC 06 1938 15.2s 38.83S 176.38E 73km M=3.9
0.2 0.01 0.01 4
Rsd 0.2s 34ph/24stn Dmin 12km Az.gap 43°
Corr. -0.016 26M/23stn Msd 0.2 1↓

92/10961
DEC 06 2329 35.7s 37.97S 178.74E 33km M=3.9
0.2 0.01 0.02 R
Rsd 0.1s 12ph/9stn Dmin 56km Az.gap 252°
Corr. -0.124 19M/18stn Msd 0.2

92/10969
DEC 07 0715 44.8s 38.14S 176.07E 212km M=3.9
0.6 0.04 0.06 4
Rsd 0.3s 19ph/10stn Dmin 92km Az.gap 209°
Corr. -0.781 18M/18stn Msd 0.3 1↑

92/10970
DEC 07 0836 14.2s 38.14S 175.64E 161km M=3.6
0.5 0.04 0.08 7
Rsd 0.3s 29ph/19stn Dmin 130km Az.gap 230°
Corr. -0.797 19M/19stn Msd 0.2 1↑

92/10977
DEC 07 1311 42.3s 43.16S 170.73E 8km M=3.6
0.1 0.01 0.01 1
Rsd 0.1s 20ph/17stn Dmin 9km Az.gap 122°
Corr. -0.365 30M/28stn Msd 0.2 1↑

92/11002
DEC 08 0829 49.4s 46.32S 166.03E 33km M=3.8
0.7 0.02 0.07 R
Rsd 0.2s 21ph/17stn Dmin 129km Az.gap 291°
Corr. -0.142 22M/18stn Msd 0.1 1↓

92/11014
DEC 08 1455 17.4s 39.29S 174.69E 199km M=4.1
0.3 0.01 0.02 3
Rsd 0.2s 34ph/27stn Dmin 60km Az.gap 157°
Corr. -0.051 23M/21stn Msd 0.2 3↑ 1↓

92/11031
DEC 08 2301 03.0s 37.66S 177.02E 140km M=3.8
0.3 0.03 0.02 2
Rsd 0.1s 15ph/13stn Dmin 67km Az.gap 139°
Corr. -0.512 20M/19stn Msd 0.3

92/11037
DEC 09 0539 09.1s 35.98S 179.33E 165km M=4.1
0.5 0.06 0.06 6
Rsd 0.1s 11ph/10stn Dmin 202km Az.gap 335°
Corr. -0.467 10M/10stn Msd 0.3

92/11040
DEC 09 0742 53.1s 38.64S 175.40E 260km M=3.5
0.6 0.03 0.05 5
Rsd 0.2s 19ph/14stn Dmin 54km Az.gap 149°
Corr. -0.527 9M/9stn Msd 0.3

92/11052
DEC 09 1344 13.6s 37.81S 176.06E 319km M=3.5
0.3 0.06 0.07 6
Rsd 0.1s 12ph/10stn Dmin 195km Az.gap 270°
Corr. -0.953 6M/6stn Msd 0.4

92/11056
DEC 09 1904 04.5s 37.95S 176.28E 145km M=3.5
0.5 0.03 0.05 3
Rsd 0.2s 12ph/8stn Dmin 81km Az.gap 271°
Corr. -0.488 10M/10stn Msd 0.2

92/11066
DEC 10 0236 08.9s 38.71S 178.09E 34km M=3.5
0.2 0.01 0.01 1
Rsd 0.1s 7ph/3stn Dmin 12km Az.gap 291°
Corr. -0.400 2M/2stn Msd 0.2 1↑

92/11071
DEC 10 0642 16.8s 38.66S 175.85E 218km M=3.5
0.4 0.04 0.07 5
Rsd 0.1s 10ph/8stn Dmin 124km Az.gap 314°
Corr. -0.723 4M/4stn Msd 0.1

92/11097
DEC 11 0732 11.6s 35.61S 179.08E 269km M=4.3
1.1 0.14 0.15 9
Rsd 0.2s 13ph/7stn Dmin 232km Az.gap 338°
Corr. -0.307 14M/14stn Msd 0.2

92/11102
DEC 11 1344 24.7s 40.81S 175.13E 41km M=4.0
0.1 0.01 0.01 2
Rsd 0.2s 37ph/27stn Dmin 20km Az.gap 63°
Corr. -0.398 19M/16stn Msd 0.3 4↑ 4↓
Felt Paraparaumu (65) MM4 to Lower Hutt (68).

92/11110
DEC 11 1706 40.4s 35.71S 178.42E 226km M=4.0
0.6 0.07 0.09 5
Rsd 0.1s 12ph/9stn Dmin 210km Az.gap 332°
Corr. -0.773 8M/8stn Msd 0.1

92/11121
DEC 12 0258 54.7s 36.01S 178.27E 181km M=3.9
0.4 0.03 0.05 6
Rsd 0.0s 14ph/7stn Dmin 270km Az.gap 336°
Corr. -0.785 7M/7stn Msd 0.2

92/11123
DEC 12 0414 40.2s 36.95S 177.50E 197km M=4.2
0.5 0.04 0.04 4
Rsd 0.2s 10ph/8stn Dmin 102km Az.gap 258°
Corr. 0.002 20M/19stn Msd 0.2

92/11124
DEC 12 0440 01.0s 39.02S 175.22E 161km M=5.7
0.3 0.01 0.02 2
Rsd 0.2s 58ph/38stn Dmin 15km Az.gap 75°
Corr. -0.053 15M/9stn Msd 0.4 14↑ 8↓
Felt Palmerston North (62), Raumati (65).

92/11139
DEC 12 1513 36.5s 38.58S 175.86E 150km M=3.9
0.5 0.02 0.02 4
Rsd 0.2s 30ph/18stn Dmin 65km Az.gap 72°
Corr. -0.207 24M/22stn Msd 0.2 1↑

92/11142
DEC 12 2046 50.1s 38.68S 177.94E 43km M=3.7
0.3 0.02 0.03 3
Rsd 0.3s 17ph/13stn Dmin 10km Az.gap 135°
Corr. -0.149 19M/18stn Msd 0.2 1↑

92/11155
DEC 13 0655 24.1s 39.30S 174.58E 154km M=3.6
0.4 0.01 0.03 3
Rsd 0.2s 32ph/17stn Dmin 63km Az.gap 148°
Corr. 0.350 13M/12stn Msd 0.3 1↓

92/11157
DEC 13 0800 36.8s 38.48S 176.08E 186km M=3.9
0.8 0.05 0.07 9
Rsd 0.4s 24ph/15stn Dmin 137km Az.gap 223°
Corr. -0.715 8M/8stn Msd 0.2 1↑

92/11162
DEC 13 0951 00.2s 39.46S 175.45E 70km M=3.6
0.2 0.01 0.02 3
Rsd 0.3s 32ph/25stn Dmin 22km Az.gap 94°
Corr. 0.044 21M/18stn Msd 0.2 1↓

92/11174
DEC 13 1420 11.4s 40.65S 176.01E 29km M=4.1
0.1 0.01 0.01 1
Rsd 0.2s 36ph/26stn Dmin 22km Az.gap 128°
Corr. -0.574 9M/5stn Msd 0.1 4↑ 2↓
Felt lower North Island, maximum intensity MM4.

92/11175
DEC 13 1425 49.2s 38.30S 175.85E 186km M=3.8
0.7 0.06 0.07 4
Rsd 0.2s 13ph/7stn Dmin 92km Az.gap 224°
Corr. -0.758 16M/15stn Msd 0.3 1↑

92/11181
DEC 13 1738 59.9s 44.86S 167.36E 12km M=3.6
0.4 0.02 0.03 R
Rsd 0.2s 25ph/17stn Dmin 69km Az.gap 215°
Corr. -0.816 18M/16stn Msd 0.1 1↑

92/11183
DEC 13 1841 55.8s 42.00S 171.52E 12km M=3.6
0.1 0.01 0.01 R
Rsd 0.2s 21ph/11stn Dmin 37km Az.gap 170°
Corr. -0.305 21M/17stn Msd 0.2 1↑ 1↓

92/11204
DEC 14 1356 44.5s 39.64S 174.23E 134km M=3.8
0.3 0.01 0.02 3
Rsd 0.3s 41ph/23stn Dmin 42km Az.gap 96°
Corr. -0.117 15M/13stn Msd 0.2 1↓

92/11205
DEC 14 1403 07.5s 39.97S 174.62E 100km M=4.0
0.2 0.01 0.01 2
Rsd 0.2s 38ph/22stn Dmin 32km Az.gap 79°
Corr. -0.020 16M/12stn Msd 0.2 1↑

92/11213
DEC 14 1912 55.3s 34.15S 179.51W 243km M=6.7
0.7 0.06 0.06 12
Rsd 0.1s 17ph/15stn Dmin 479km Az.gap 313°
Corr. 0.738 9M/5stn Msd 0.4 1↑
Felt Gisborne (44,45), Hawkes Bay (52,60) and Wellington (68), maximum intensity MM4.

92/11224
DEC 15 0333 15.8s 38.18S 175.96E 182km M=3.6
0.5 0.10 0.15 17
Rsd 0.1s 9ph/7stn Dmin 278km Az.gap 344°
Corr. -0.922 3M/3stn Msd 0.2

92/11226
DEC 15 0817 12.5s 42.78S 171.99E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.2s 21ph/12stn Dmin 23km Az.gap 100°
Corr. -0.210 29M/22stn Msd 0.2 1↓

92/11250
DEC 16 0737 08.2s 45.04S 167.53E 109km M=3.7
0.5 0.02 0.04 4
Rsd 0.2s 15ph/8stn Dmin 52km Az.gap 185°
Corr. -0.203 10M/8stn Msd 0.2 1↑ 2↓

92/11255
DEC 16 1021 22.3s 35.39S 179.41E 236km M=4.1
0.3 0.05 0.04 7
Rsd 0.1s 13ph/7stn Dmin 265km Az.gap 328°
Corr. 0.113 15M/14stn Msd 0.2

92/11257
DEC 16 1116 56.7s 39.44S 174.58E 250km M=3.8
0.4 0.02 0.03 3
Rsd 0.2s 26ph/18stn Dmin 50km Az.gap 204°
Corr. -0.277 13M/13stn Msd 0.2 1↑

92/11272
DEC 16 2314 57.2s 38.85S 175.44E 236km M=3.6
0.3 0.02 0.03 2
Rsd 0.1s 18ph/11stn Dmin 39km Az.gap 215°
Corr. -0.555 11M/11stn Msd 0.2 2↑ 1↓

92/11273
DEC 17 0024 58.5s 38.69S 175.76E 143km M=3.9
0.3 0.02 0.02 2
Rsd 0.2s 27ph/15stn Dmin 51km Az.gap 139°
Corr. -0.342 22M/20stn Msd 0.2 7↑ 1↓

92/11282
DEC 17 0613 30.4s 38.57S 175.51E 218km M=3.8
0.6 0.04 0.04 4
Rsd 0.2s 14ph/8stn Dmin 54km Az.gap 161°
Corr. -0.118 15M/13stn Msd 0.3 1↑

92/11283
DEC 17 0802 53.5s 36.67S 176.92E 233km M=3.8
0.3 0.03 0.06 2
Rsd 0.1s 10ph/5stn Dmin 177km Az.gap 313°
Corr. -0.633 8M/8stn Msd 0.1

92/11304
DEC 18 0353 26.2s 36.51S 177.64E 206km M=3.8
0.2 0.02 0.03 2
Rsd 0.1s 13ph/9stn Dmin 200km Az.gap 319°
Corr. -0.547 7M/7stn Msd 0.3

92/11317
DEC 18 1615 37.9s 37.50S 177.07E 250km M=3.6
0.2 0.07 0.10 5
Rsd 0.0s 11ph/9stn Dmin 151km Az.gap 297°
Corr. -0.996 3M/3stn Msd 0.2

92/11320
DEC 18 2038 34.1s 39.60S 174.26E 257km M=4.0
0.3 0.02 0.03 3
Rsd 0.2s 28ph/17stn Dmin 62km Az.gap 192°
Corr. -0.283 21M/19stn Msd 0.3 1↓

92/11343
DEC 19 1828 28.5s 37.73S 177.34E 71km M=3.5
0.2 0.01 0.01 3
Rsd 0.2s 18ph/13stn Dmin 62km Az.gap 133°
Corr. 0.193 14M/11stn Msd 0.3 1↑ 3↓

92/11348
DEC 20 0231 58.1s 38.23S 175.58E 127km M=3.5
0.1 0.01 0.04 4
Rsd 0.1s 12ph/4stn Dmin 134km Az.gap 270°
Corr. -0.906 2M/2stn Msd 0.2 1↑

92/11355
DEC 20 1345 21.2s 47.75S 165.19E 33km M=4.5
0.8 0.05 0.09 R
Rsd 0.3s 18ph/14stn Dmin 280km Az.gap 330°
Corr. -0.146 21M/16stn Msd 0.2

92/11369
DEC 21 0118 09.7s 37.25S 176.26E 200km M=3.8
1.0 0.13 0.08 6
Rsd 0.3s 8ph/5stn Dmin 135km Az.gap 254°
Corr. -0.621 11M/11stn Msd 0.2

92/11380
DEC 21 0754 31.2s 40.20S 173.59E 211km M=4.5
0.4 0.02 0.02 3
Rsd 0.2s 38ph/27stn Dmin 73km Az.gap 145°
Corr. -0.132 27M/24stn Msd 0.2 7↑ 3↓

92/11385
DEC 21 1915 32.6s 42.25S 173.52E 39km M=3.5
0.1 0.01 0.01 3
Rsd 0.3s 33ph/21stn Dmin 19km Az.gap 116°
Corr. -0.426 15M/12stn Msd 0.2 3↑ 2↓

92/11389
DEC 22 0059 44.8s 40.92S 176.09E 27km M=4.0
0.2 0.01 0.02 2
Rsd 0.2s 31ph/23stn Dmin 37km Az.gap 190°
Corr. -0.566 37M/31stn Msd 0.3 4↑ 3↓
Felt Masterton (66).

92/11400
DEC 22 0548 02.0s 43.00S 171.49E 5km M=3.0
0.1 0.01 0.01 R
Rsd 0.2s 17ph/10stn Dmin 62km Az.gap 109°
Corr. -0.475 10M/8stn Msd 0.2 1↑
Felt Arthur's Pass (93) MM4.

92/11407
DEC 22 0803 34.8s 37.11S 176.93E 183km M=3.5
0.6 0.06 0.05 5
Rsd 0.2s 11ph/7stn Dmin 128km Az.gap 285°
Corr. -0.479 13M/13stn Msd 0.2

92/11410
DEC 22 0852 17.5s 39.48S 174.28E 197km M=4.8
0.3 0.01 0.02 3
Rsd 0.2s 48ph/36stn Dmin 34km Az.gap 85°
Corr. -0.132 27M/21stn Msd 0.3 9↑ 1↓

92/11417
DEC 22 1342 41.1s 45.51S 167.03E 74km M=3.8
0.3 0.01 0.02 2
Rsd 0.1s 22ph/15stn Dmin 11km Az.gap 271°
Corr. 0.243 23M/18stn Msd 0.1 1↑ 2↓

92/11424
DEC 22 1848 58.9s 35.31S 178.05E 311km M=3.9
0.4 0.07 0.21 6
Rsd 0.1s 9ph/8stn Dmin 338km Az.gap 348°
Corr. -0.926 3M/3stn Msd 0.1

92/11434
DEC 23 0630 27.4s 39.38S 174.80E 215km M=3.5
0.2 0.01 0.02 2
Rsd 0.1s 19ph/13stn Dmin 48km Az.gap 189°
Corr. -0.172 12M/10stn Msd 0.2 1↑

92/11447
DEC 23 1649 55.0s 37.95S 176.03E 195km M=3.8
0.4 0.04 0.03 3
Rsd 0.1s 16ph/13stn Dmin 101km Az.gap 244°
Corr. -0.492 21M/19stn Msd 0.2 1↑

92/11580
DEC 28 0309 21.8s 36.73S 176.86E 289km M=3.6
0.3 0.03 0.04 3
Rsd 0.1s 13ph/9stn Dmin 171km Az.gap 292°
Corr. -0.660 7M/7stn Msd 0.2

92/11584
DEC 28 0548 16.9s 36.63S 177.42E 197km M=4.7
0.6 0.05 0.04 6
Rsd 0.1s 11ph/8stn Dmin 133km Az.gap 239°
Corr. 0.777 28M/23stn Msd 0.2 1↓

92/11598
DEC 28 1511 31.1s 39.68S 173.98E 216km M=3.6
0.5 0.02 0.03 5
Rsd 0.2s 25ph/19stn Dmin 83km Az.gap 165°
Corr. -0.387 14M/12stn Msd 0.2 1↑

92/11611
DEC 28 2343 35.7s 38.80S 175.15E 215km M=3.6
0.3 0.01 0.06 3
Rsd 0.1s 17ph/11stn Dmin 34km Az.gap 117°
Corr. 0.328 13M/13stn Msd 0.2

92/11617
DEC 29 0524 03.9s 39.90S 177.04E 47km M=3.8
0.2 0.01 0.02 2
Rsd 0.2s 38ph/26stn Dmin 21km Az.gap 188°
Corr. -0.570 23M/21stn Msd 0.3 4↑ 3↓

92/11628
DEC 29 1615 17.7s 38.55S 178.39E 29km M=3.7
0.3 0.01 0.03 2
Rsd 0.2s 13ph/10stn Dmin 32km Az.gap 216°
Corr. -0.496 26M/23stn Msd 0.2 1↑ 1↓

92/11631
DEC 29 1740 52.4s 38.89S 175.66E 165km M=3.7
0.1 0.01 0.01 2
Rsd 0.0s 15ph/10stn Dmin 108km Az.gap 276°
Corr. 0.287 11M/9stn Msd 0.4 1↑

92/11645
DEC 30 0648 38.3s 38.82S 176.03E 106km M=3.5
0.4 0.02 0.02 3
Rsd 0.2s 17ph/9stn Dmin 54km Az.gap 129°
Corr. -0.498 13M/11stn Msd 0.2 1↑

92/11647
DEC 30 1255 31.5s 38.24S 178.94E 20km M=3.7
0.3 0.01 0.02 2
Rsd 0.2s 8ph/4stn Dmin 63km Az.gap 281°
Corr. -0.103 7M/5stn Msd 0.1 1↑

92/11655
DEC 31 0150 32.3s 42.88S 173.06E 33km M=3.8
0.1 0.00 0.01 R
Rsd 0.1s 25ph/15stn Dmin 64km Az.gap 149°
Corr. -0.245 9M/5stn Msd 0.2 2↑ 1↓

92/11673
DEC 31 2132 46.4s 39.55S 176.75E 70km M=4.1
0.2 0.01 0.02 2
Rsd 0.2s 37ph/28stn Dmin 6km Az.gap 55°
Corr. -0.367 24M/21stn Msd 0.2 3↑ 4↓

LISTS OF ORIGINS AND MAGNITUDE DETERMINATIONS

HIGHER MAGNITUDE EARTHQUAKES

A chronological list of 1992 New Zealand earthquakes of $M_L \geq 5.0$ follows. A reference number at the beginning of each entry identifies the origin with the instrumental data summary, and also with the listing of non-instrumental data (if there is any) that appears in a later section.

The letter "R" following a depth indicates that the depth was restricted to some likely value because the data did not provide sufficient constraint for the depth to be determined by calculation. Choice of the depth of restriction is usually made on the basis of the crustal phases observed or the predominant depth of shallow earthquakes in the epicentral area. (For sub-crustal earthquakes, depth restriction is seldom necessary.)

The letter "G" after a depth shows that the depth was restricted on the basis of information that could not be used by the location program, such as macroseismic information, overseas PKP observations etc.

The letter "F" following a magnitude indicates that at least one report of the earthquake being felt has been received by the Observatory.

In the following table, Rsd is as defined on page 31 and NP phases from NS recording stations have been used to determine the origins.

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
383	JAN 15	0614 57.2	38.60S	175.35E	233	5.3F	0.2	35	28
947	FEB 05	0615 53.3	39.13S	174.83E	222	5.1	0.3	49	36
1380	FEB 18	1027 11.3	39.91S	174.02E	122	5.9F	0.2	39	32
1727	MAR 02	0905 56.9	40.43S	176.60E	37	5.8F	0.2	46	41
2349	MAR 13	0630 59.6	40.26S	176.49E	57	5.0F	0.2	51	43
2459	MAR 16	2321 31.6	35.22S	178.97E	168	6.1	0.3	17	15
2617	MAR 22	0140 20.6	41.25S	177.95E	33R	5.1	0.1	23	21
2754	MAR 25	1727 31.9	37.25S	177.21E	12R	5.7F	0.2	27	21
3075	MAR 30	0702 52.4	43.05S	171.23E	5R	5.8F	0.2	14	11
3506	APR 01	2257 40.4	43.02S	171.20E	5R	5.2F	0.1	11	10
5272	MAY 16	1757 13.5	38.23S	178.37E	24	5.6F	0.2	19	17
5277	MAY 16	1804 3.5	38.27S	178.30E	21	5.2	0.1	15	13
5315	MAY 17	0106 55.9	38.25S	178.37E	18	5.2F	0.1	18	16
5856	MAY 27	2230 36.1	41.61S	173.65E	84	6.7F	0.1	31	25
6640	JUN 21	1743 9.4	37.58S	176.87E	5R	6.1F	0.3	28	24
6644	JUN 21	1747 39.3	37.70S	176.81E	5R	5.6F	0.2	24	19
8262	JUL 28	0152 51.2	36.88S	179.24W	33R	5.1	0.4	16	14
8330	JUL 31	1411 23.6	40.59S	176.14E	36	5.2F	0.2	41	35
8450	AUG 05	0746 27.2	35.95S	179.84W	98R	5.0	0.2	18	15
8539	AUG 09	2358 0.1	37.78S	176.20E	296	5.3	0.3	26	22
8550	AUG 10	1039 35.4	40.49S	173.19E	237	5.1	0.2	31	26
9536	SEP 16	0540 24.3	38.01S	176.13E	189	5.0	0.2	33	24
9912	SEP 29	0649 43.8	38.17S	176.18E	168	5.3	0.2	38	27
10453	OCT 20	1306 50.3	39.39S	174.50E	190	5.0	0.2	39	28
10863	NOV 04	1401 54.2	36.43S	178.08E	181	5.1	0.4	21	15
11670	NOV 27	1559 12.5	43.17S	170.71E	6	5.3F	0.1	27	19
12124	DEC 12	0440 1.0	39.02S	175.22E	161	5.7F	0.2	58	38
12213	DEC 14	1912 55.3	34.15S	179.51W	243	6.7F	0.1	17	15
12558	DEC 27	0555 15.8	37.89S	176.05E	277	6.0F	0.3	43	29

WELLINGTON AREA SEISMICITY

Because of its close station spacing and the relative ease with which stations can be reached when repairs or adjustments are necessary, the Wellington Network can be relied on to furnish enough data for determination of earthquake origins in its neighbourhood from smaller events than those needed to achieve the same accuracy in other parts of the country. The following list includes all earthquakes of magnitude (M_L) 2.0 or more in the area surrounding Wellington, and includes the earthquakes of magnitude 3.5 or more within the area, which were listed on earlier pages.

The location of earthquakes in the neighbourhood of Wellington is no longer performed separately from the location of regional earthquakes as was done in the past. The old practice sometimes resulted in earthquakes having two listed origins, one arrived at from use of National Network data and a regional velocity model, and the other from Wellington Network data and a local model. In current practice the local model is merged into the regional model. A map of these epicentres and a cross-section showing their distribution in depth appears in the final section of this Report.

In the following table, Rsd is as defined on page 31 and NP phases from NS recording stations have been used to determine the origins.

The regional velocity model and its boundaries are listed in the table on page 26.

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
009	JAN 01	0831 32.1	40.67S	175.49E	27	3.2	0.2	20	16
010	JAN 01	0833 1.9	40.62S	175.48E	28	2.1	0.2	11	8
012	JAN 01	0957 37.2	40.68S	175.50E	28	3.2	0.2	21	16
015	JAN 01	1222 8.1	41.34S	173.62E	62	2.4	0.2	9	7
017	JAN 01	1410 38.6	41.18S	173.71E	63	2.3	0.2	10	7
021	JAN 01	1951 48.3	40.68S	174.76E	20	2.1	0.1	10	7
022	JAN 01	2257 34.3	40.87S	175.92E	30	2.4	0.2	11	8
024	JAN 02	0037 29.1	41.00S	174.94E	47	2.1	0.1	8	6
035	JAN 02	1445 23.7	41.04S	174.47E	16	2.9	0.3	17	14
037	JAN 02	1641 55.7	41.63S	174.08E	18	2.2	0.1	11	8
042	JAN 02	2132 2.6	40.67S	174.75E	19	2.1	0.0	9	6
045	JAN 03	0137 3.1	41.69S	174.28E	30	2.3	0.2	12	9
047	JAN 03	0242 43.0	40.53S	174.19E	59	2.2	0.2	7	5
051	JAN 03	0855 50.1	41.12S	175.36E	27	2.3	0.1	12	9
052	JAN 03	0910 2.8	40.80S	174.59E	23	2.0	0.0	9	7
069	JAN 04	0255 50.6	41.10S	173.92E	57	2.1	0.1	9	6
070	JAN 04	0256 29.4	40.54S	174.02E	89	2.3	0.2	11	8
072	JAN 04	0536 8.8	41.13S	174.57E	57	2.6	0.1	15	11
074	JAN 04	0739 8.8	40.82S	175.31E	28	2.0	0.1	11	8
076	JAN 04	0903 58.1	40.66S	175.96E	41	2.5	0.3	13	10
085	JAN 04	1555 19.2	41.84S	174.10E	23	2.0	0.2	12	10
087	JAN 04	1825 2.9	41.90S	173.79E	29	2.2	0.2	8	7
090	JAN 04	2020 32.7	40.90S	175.99E	39	3.1	0.2	14	12
096	JAN 05	0207 36.7	40.56S	174.84E	28	2.1	0.1	9	7
110	JAN 05	1522 8.6	41.11S	174.64E	31	2.2	0.1	13	10

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
111	JAN 05	1522 27.9	41.14S	173.51E	86	2.6	0.2	16	7
113	JAN 05	1603 35.7	40.97S	175.49E	25	2.1	0.1	11	9
120	JAN 05	2333 48.4	41.21S	174.58E	53	2.0	0.1	8	6
123	JAN 06	0123 47.1	41.40S	174.91E	23	2.1	0.1	15	11
125	JAN 06	0728 59.0	40.89S	175.18E	35	2.2	0.2	11	9
136	JAN 06	1909 26.9	41.34S	174.35E	62	2.5	0.1	18	12
142	JAN 07	0115 55.6	40.92S	174.66E	14	2.1	0.1	11	6
158	JAN 07	1315 7.3	40.61S	174.42E	68	2.4	0.1	10	6
164	JAN 07	1651 23.2	40.96S	174.52E	32	2.5	0.2	17	11
166	JAN 07	1902 57.1	41.02S	174.74E	56	2.6	0.1	16	12
168	JAN 07	2042 18.8	41.41S	175.34E	17	2.0	0.2	12	9
173	JAN 07	2218 24.4	40.59S	175.74E	51	2.3	0.1	9	7
174	JAN 07	2308 39.0	40.50S	174.26E	86	2.4	0.1	8	7
181	JAN 08	0630 12.2	41.78S	174.51E	31	2.4	0.1	10	7
190	JAN 08	1552 26.3	40.62S	174.40E	72	2.3	0.1	11	8
200	JAN 08	2157 22.7	40.89S	175.24E	22	2.0	0.1	11	9
203	JAN 09	0213 35.7	41.39S	175.91E	9	2.7	0.3	14	11
211	JAN 09	0824 17.9	40.89S	173.95E	83	2.9	0.3	23	14
216	JAN 09	0955 59.9	40.96S	175.60E	27	3.2	0.2	19	13
217	JAN 09	1043 34.5	41.65S	174.34E	22	2.0	0.4	9	6
227	JAN 09	1951 5.0	41.68S	174.92E	29	2.0	0.1	7	5
234	JAN 10	0302 9.0	41.56S	174.93E	33	2.3	0.2	13	10
242	JAN 10	1151 15.9	40.99S	174.73E	56	2.0	0.1	9	7
249	JAN 10	1633 28.9	40.89S	175.29E	25	2.0	0.1	15	11
258	JAN 10	2321 36.4	41.09S	174.77E	32	2.2	0.1	15	11
271	JAN 11	0433 49.3	40.92S	174.71E	17	2.0	0.1	10	6
273	JAN 11	0543 6.4	41.79S	174.37E	50	2.2	0.1	14	12
274	JAN 11	0809 53.0	40.58S	175.07E	12R	2.0	0.2	12	7
284	JAN 11	1525 47.8	41.46S	173.60E	100	2.4	0.0	9	7
285	JAN 11	1641 49.3	41.03S	174.72E	33	2.6	0.1	19	13
288	JAN 11	1755 19.6	40.68S	175.46E	27	2.3	0.2	15	11
291	JAN 11	1932 58.2	40.58S	174.11E	55	2.2	0.3	11	7
305	JAN 12	1028 10.1	41.62S	174.68E	28	2.2	0.2	14	11
307	JAN 12	1319 23.4	40.77S	175.68E	26	2.8	0.2	14	11
308	JAN 12	1423 22.4	40.81S	174.39E	52	2.6	0.2	16	10
310	JAN 12	1532 43.7	40.61S	175.88E	31	2.3	0.2	11	7
312	JAN 12	2037 25.9	40.93S	175.69E	25	3.4	0.2	18	14
318	JAN 13	0247 32.7	41.05S	174.04E	73	2.6	0.2	14	9
330	JAN 13	1007 3.2	41.23S	175.22E	23	2.4	0.1	15	12
341	JAN 13	1707 45.0	40.97S	175.64E	26	2.3	0.1	13	10
348	JAN 13	2124 10.8	41.29S	175.76E	21	2.6	0.2	13	10
352	JAN 14	0212 2.8	40.97S	175.61E	23	2.2	0.2	12	9
357	JAN 14	1252 19.2	41.00S	174.79E	32	2.2	0.1	11	8
358	JAN 14	1257 19.0	41.59S	174.65E	33	2.1	0.1	7	6
362	JAN 14	1627 9.6	40.53S	174.82E	19	2.3	0.2	8	5

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
382	JAN 15	0510 45.6	40.51S	174.84E	19	2.4	0.2	9	6
384	JAN 15	0850 8.1	40.80S	174.76E	40	2.3	0.1	10	8
394	JAN 15	1912 13.0	40.97S	175.46E	28	2.0	0.1	10	7
406	JAN 16	0606 34.0	41.04S	174.12E	55	2.0	0.1	8	6
410	JAN 16	1300 19.7	40.99S	175.96E	34	2.4	0.2	11	9
413	JAN 16	1433 24.7	41.38S	174.19E	65	2.4	0.1	12	10
416	JAN 16	1616 34.3	40.75S	174.95E	36	2.2	0.1	10	7
427	JAN 16	1907 50.1	41.59S	174.36E	34	2.4	0.2	11	8
438	JAN 17	0359 6.4	40.54S	174.83E	21	2.1	0.2	8	5
439	JAN 17	0448 49.7	41.82S	173.87E	52	2.2	0.1	6	4
442	JAN 17	0800 4.1	41.12S	174.60E	35	2.0	0.1	13	10
447	JAN 17	1244 55.6	41.22S	175.29E	24	2.0	0.1	15	9
456	JAN 17	2123 26.8	41.81S	174.57E	27	2.3	0.3	13	11
457	JAN 17	2201 55.9	40.82S	173.82E	105	2.9	0.1	12	10
460	JAN 18	0102 43.5	41.60S	174.65E	33	2.1	0.1	11	8
464	JAN 18	0258 10.6	40.75S	175.03E	35	3.0	0.2	15	11
469	JAN 18	0722 31.7	41.11S	174.11E	47	2.3	0.1	10	7
472	JAN 18	0816 41.3	40.60S	174.49E	78	3.0	0.3	18	14
475	JAN 18	1050 44.9	41.19S	173.85E	57	2.5	0.2	11	7
482	JAN 18	1835 15.1	40.62S	175.02E	12R	2.1	0.2	8	6
491	JAN 19	0203 10.7	40.69S	175.43E	23	2.5	0.2	14	11
492	JAN 19	0208 34.0	41.37S	174.97E	26	2.0	0.0	10	7
493	JAN 19	0342 7.0	40.99S	174.09E	50	2.6	0.4	20	13
506	JAN 19	1428 7.4	41.78S	174.56E	30	2.2	0.2	10	8
508	JAN 19	1557 1.1	41.33S	174.98E	26	2.1	0.1	13	10
516	JAN 20	0000 0.4	41.67S	174.59E	23	2.0	0.1	7	4
518	JAN 20	0124 59.3	41.65S	174.61E	29	2.0	0.3	11	8
519	JAN 20	0411 52.4	40.53S	174.67E	27	2.7	0.3	13	10
527	JAN 20	0920 5.8	41.01S	175.59E	28	2.0	0.1	12	8
528	JAN 20	0935 29.4	41.67S	174.26E	11	2.3	0.2	10	9
533	JAN 20	1207 49.6	41.14S	175.37E	26	2.0	0.1	12	9
539	JAN 20	1613 35.8	41.05S	173.83E	96	2.4	0.3	11	8
553	JAN 21	0253 25.7	40.98S	175.58E	26	2.2	0.1	13	8
560	JAN 21	0913 9.9	41.17S	175.06E	29	2.4	0.2	18	12
565	JAN 21	1809 50.8	41.68S	174.60E	29	2.4	0.2	15	13
571	JAN 21	2257 58.4	41.06S	174.39E	63	2.2	0.1	10	7
581	JAN 22	1129 4.6	40.99S	175.59E	24	2.3	0.2	16	12
603	JAN 23	0426 57.0	41.18S	174.92E	31	2.0	0.1	14	10
606	JAN 23	0620 52.8	41.09S	174.70E	56	2.2	0.1	11	9
629	JAN 24	0133 49.8	41.08S	175.11E	27	2.2	0.2	15	10
632	JAN 24	0702 22.4	40.90S	174.03E	58	2.2	0.2	9	6
633	JAN 24	0830 22.7	41.37S	174.38E	60	2.3	0.1	10	7
637	JAN 24	1433 43.0	41.41S	175.72E	26	2.5	0.1	14	9
639	JAN 24	1643 3.2	41.88S	174.14E	20	2.8	0.3	25	19
642	JAN 24	1840 4.5	40.70S	174.34E	48	3.0	0.2	17	12

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
646	JAN 24	2213 55.8	41.20S	175.26E	31	2.4	0.1	14	9
647	JAN 25	0054 3.7	40.67S	174.50E	44	2.1	0.1	7	4
655	JAN 25	0533 41.4	41.87S	174.01E	38	2.4	0.2	18	11
657	JAN 25	0657 59.4	41.84S	174.12E	14	2.4	0.2	12	9
666	JAN 25	2151 8.5	40.75S	174.81E	38	2.3	0.1	11	8
670	JAN 26	0104 7.5	40.52S	175.69E	33	3.0	0.2	15	12
671	JAN 26	0110 16.6	41.49S	174.93E	41	2.1	0.0	8	6
673	JAN 26	0404 31.3	41.25S	175.33E	28	2.3	0.1	10	8
674	JAN 26	0407 37.0	41.08S	174.73E	52	2.1	0.1	11	9
679	JAN 26	0752 45.5	41.50S	173.63E	53	2.5	0.2	19	12
683	JAN 26	1243 14.7	41.31S	174.51E	53	2.1	0.1	8	5
684	JAN 26	1509 26.3	41.90S	174.64E	33	2.3	0.1	12	7
685	JAN 26	1509 53.3	41.81S	174.04E	40	2.8	0.2	22	17
688	JAN 26	1737 50.0	40.54S	174.75E	58	3.5	0.2	29	18
690	JAN 26	2035 56.2	40.60S	175.58E	29	3.0	0.2	14	10
691	JAN 26	2225 29.1	41.64S	174.03E	40	2.3	0.2	11	9
699	JAN 27	0934 7.6	41.78S	174.36E	27	2.4	0.2	14	10
700	JAN 27	0937 32.6	41.78S	174.37E	27	3.2	0.3	24	16
713	JAN 27	1555 30.4	41.88S	174.80E	61	2.1	0.1	8	6
717	JAN 27	2258 4.5	41.54S	174.61E	28	2.3	0.2	14	11
721	JAN 28	0129 15.5	41.85S	174.29E	12R	2.4	0.3	14	12
729	JAN 28	0624 45.5	40.65S	174.64E	37	2.5	0.1	12	7
735	JAN 28	0833 24.2	41.64S	174.59E	28	2.4	0.1	11	9
737	JAN 28	0947 34.2	40.58S	174.62E	42	2.0	0.2	12	7
738	JAN 28	1246 54.6	41.10S	174.72E	31	3.0	0.1	19	13
746	JAN 28	2026 50.5	40.56S	175.71E	28	2.1	0.2	7	5
764	JAN 29	1324 8.2	41.66S	174.96E	33	2.2	0.2	10	8
765	JAN 29	1337 52.9	41.62S	174.26E	24	2.2	0.2	9	7
767	JAN 29	1405 19.0	41.62S	174.62E	29	2.1	0.1	8	5
768	JAN 29	1530 56.1	40.84S	174.69E	15	2.1	0.2	9	6
769	JAN 29	1547 13.8	41.61S	174.00E	32	2.2	0.1	11	6
780	JAN 30	0151 23.9	41.63S	173.84E	35	2.4	0.3	12	8
786	JAN 30	0437 6.8	41.41S	174.89E	28	2.7	0.1	21	13
803	JAN 30	1757 48.7	41.74S	174.33E	11	2.5	0.3	25	16
812	JAN 30	2349 19.4	41.30S	175.17E	23	2.8	0.2	18	13
813	JAN 31	0015 15.2	41.06S	174.17E	55	2.0	0.1	10	7
827	JAN 31	0957 11.6	40.66S	175.39E	30	2.6	0.2	15	13
834	JAN 31	1424 20.1	40.51S	173.69E	132	3.0	0.2	13	9
839	JAN 31	1653 39.3	41.74S	174.50E	53	2.2	0.1	11	9
847	JAN 31	2233 17.1	40.88S	174.92E	39	2.1	0.1	8	6
850	FEB 01	0519 26.9	41.17S	174.88E	15	2.4	0.3	14	10
857	FEB 01	1019 51.6	41.08S	175.21E	32	2.3	0.2	13	9
858	FEB 01	1123 49.5	41.37S	174.39E	34	2.4	0.2	13	10
862	FEB 01	1335 10.7	41.18S	174.29E	41	2.4	0.2	15	11
864	FEB 01	1558 35.4	40.64S	174.57E	70	2.8	0.1	15	11

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
867	FEB 01	1848 21.2	40.81S	173.99E	64	3.2	0.3	25	18
882	FEB 02	0813 58.2	41.70S	174.19E	19	2.2	0.1	5	4
884	FEB 02	0842 32.1	41.64S	174.58E	26	2.3	0.0	7	5
892	FEB 02	1714 33.5	41.66S	174.26E	12R	2.3	0.3	13	10
898	FEB 02	2135 39.0	41.63S	174.16E	31	2.5	0.1	12	9
899	FEB 02	2224 24.8	41.49S	174.67E	51	2.5	0.2	17	13
911	FEB 03	1423 47.6	40.99S	173.50E	5R	2.5	0.3	14	11
917	FEB 03	2016 31.0	41.78S	173.96E	11	2.9	0.4	18	16
918	FEB 03	2036 4.0	41.63S	173.67E	48	4.0	0.3	27	21
920	FEB 04	0048 15.3	41.20S	173.91E	56	2.4	0.1	11	7
925	FEB 04	0602 20.6	41.49S	174.39E	32	2.6	0.2	13	11
927	FEB 04	0829 3.1	41.28S	175.30E	29	2.3	0.1	14	9
935	FEB 04	1556 44.7	40.79S	175.04E	31	2.3	0.2	15	11
946	FEB 05	0555 37.0	40.82S	175.10E	34	2.7	0.2	12	8
951	FEB 05	0949 10.1	40.80S	175.05E	54	2.1	0.1	8	6
953	FEB 05	1222 15.7	40.93S	175.51E	23	2.6	0.1	10	7
955	FEB 05	1250 51.8	40.55S	175.97E	31	2.3	0.2	9	6
958	FEB 05	1442 4.0	40.93S	175.52E	23	2.2	0.1	11	7
964	FEB 05	1918 12.3	41.70S	174.49E	30	2.0	0.1	11	7
967	FEB 05	2338 27.1	40.67S	174.65E	84	2.5	0.3	9	7
973	FEB 06	0420 9.2	41.38S	173.71E	62	2.3	0.2	10	6
979	FEB 06	0550 16.8	41.43S	174.25E	63	2.5	0.0	7	4
981	FEB 06	0641 52.3	41.09S	175.43E	9	2.1	0.2	14	9
982	FEB 06	0716 45.2	40.74S	174.39E	61	3.0	0.2	21	15
987	FEB 06	1052 56.3	40.52S	174.28E	27	2.5	0.1	9	7
989	FEB 06	1314 34.7	41.64S	174.59E	30	2.1	0.1	7	5
993	FEB 06	1633 9.7	41.41S	175.37E	18	2.4	0.1	15	10
998	FEB 06	1920 52.2	41.29S	173.88E	56	2.6	0.1	14	9
1000	FEB 06	2128 49.8	41.14S	174.00E	52	2.5	0.2	16	11
1003	FEB 06	2218 50.9	41.01S	174.58E	53	2.1	0.1	8	6
1028	FEB 07	0836 29.4	41.33S	173.85E	61	2.1	0.2	10	7
1034	FEB 07	1407 19.0	40.84S	174.74E	5R	3.4	0.1	28	21
1036	FEB 07	1704 11.0	41.34S	174.84E	29	2.5	0.1	18	12
1040	FEB 07	1813 52.1	41.20S	173.67E	75	2.6	0.2	13	9
1045	FEB 07	2026 12.3	41.63S	173.51E	76	2.0	0.0	9	6
1050	FEB 07	2343 13.7	40.97S	175.94E	22	2.0	0.1	12	8
1052	FEB 08	0138 32.9	41.34S	175.59E	20	2.2	0.3	12	9
1053	FEB 08	0226 56.1	40.52S	173.83E	110	3.3	0.3	30	19
1055	FEB 08	0254 28.0	40.69S	174.49E	52	2.2	0.3	14	8
1064	FEB 08	1642 36.9	40.71S	175.13E	33	2.0	0.1	14	9
1067	FEB 08	2019 11.0	40.89S	175.23E	25	2.1	0.3	15	10
1068	FEB 08	2128 6.4	40.88S	174.81E	47	2.2	0.1	9	5
1116	FEB 09	0446 36.4	40.86S	174.41E	68	2.3	0.1	12	7
1123	FEB 09	0818 59.4	40.74S	174.54E	71	2.9	0.2	28	21
1137	FEB 09	1258 18.3	40.93S	175.50E	20	2.8	0.2	22	16

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
1139	FEB 09	1306 2.9	40.93S	175.47E	15	2.0	0.2	14	10
1147	FEB 09	1954 14.2	41.52S	174.56E	18	2.2	0.1	9	7
1151	FEB 10	0125 3.7	40.80S	175.10E	34	2.0	0.2	13	9
1152	FEB 10	0355 5.7	40.64S	173.79E	89	2.4	0.3	9	5
1164	FEB 10	1247 44.3	40.78S	174.60E	27	2.6	0.2	16	11
1168	FEB 10	1401 48.1	41.00S	174.50E	5R	2.0	0.1	10	5
1171	FEB 10	1712 29.8	41.76S	174.54E	32	2.6	0.2	13	10
1173	FEB 10	1739 31.6	41.03S	174.73E	63	2.4	0.1	14	10
1174	FEB 10	1834 16.9	40.61S	175.71E	30	2.3	0.2	12	8
1177	FEB 10	2213 37.9	40.70S	175.32E	28	2.2	0.2	10	7
1182	FEB 11	0308 34.3	40.94S	175.47E	12	2.6	0.4	15	11
1184	FEB 11	0446 54.1	41.40S	175.02E	26	2.5	0.1	16	11
1195	FEB 11	1308 50.0	40.68S	174.04E	63	2.3	0.2	8	6
1201	FEB 11	1649 16.5	40.55S	174.41E	75	2.2	0.0	6	4
1208	FEB 11	2238 26.1	41.85S	174.54E	29	2.8	0.2	25	15
1209	FEB 11	2241 54.7	40.93S	174.35E	47	2.4	0.4	14	8
1210	FEB 11	2317 22.5	40.64S	175.49E	29	2.3	0.2	11	7
1211	FEB 11	2342 34.2	40.52S	175.94E	50	2.6	0.2	16	12
1217	FEB 12	0444 34.3	41.47S	174.38E	21	2.1	0.2	12	9
1223	FEB 12	0751 9.4	40.72S	175.30E	28	2.5	0.2	13	11
1241	FEB 12	2325 46.3	40.95S	175.65E	25	2.2	0.1	14	10
1245	FEB 13	0320 54.8	41.75S	175.51E	32	2.6	0.1	15	10
1250	FEB 13	0512 6.4	41.03S	174.67E	61	2.5	0.1	14	10
1283	FEB 14	0518 43.2	41.36S	174.21E	37	2.4	0.3	8	5
1287	FEB 14	1154 24.0	41.27S	175.32E	28	2.2	0.1	10	7
1292	FEB 14	1939 32.4	41.01S	175.37E	28	2.9	0.2	19	13
1294	FEB 14	1956 12.0	40.66S	174.44E	56	2.1	0.2	7	6
1301	FEB 14	2347 53.4	40.92S	173.87E	84	2.4	0.0	8	5
1316	FEB 15	1827 43.9	41.03S	175.36E	28	2.0	0.1	8	6
1324	FEB 16	0447 0.2	40.52S	175.13E	32	2.3	0.2	11	7
1329	FEB 16	1111 5.4	41.31S	175.17E	22	2.0	0.1	11	8
1340	FEB 16	2355 45.6	41.51S	175.72E	33R	2.2	0.4	5	4
1343	FEB 17	0355 25.6	40.87S	175.58E	23	2.0	0.2	10	8
1347	FEB 17	0728 27.2	40.90S	174.77E	56	2.0	0.0	8	6
1348	FEB 17	0749 51.3	41.01S	175.54E	22	2.0	0.1	16	10
1351	FEB 17	0949 28.1	40.81S	175.40E	28	2.5	0.1	14	9
1359	FEB 17	1108 23.5	40.50S	174.04E	83	2.4	0.2	8	6
1365	FEB 17	1355 18.7	40.72S	175.36E	29	2.0	0.1	13	9
1371	FEB 17	2117 18.3	40.51S	175.19E	5R	2.7	0.3	21	14
1375	FEB 18	0030 18.5	41.52S	174.16E	19	2.0	0.2	8	4
1376	FEB 18	0450 33.5	41.81S	174.78E	33	2.8	0.1	10	7
1382	FEB 18	1048 25.5	41.01S	175.35E	25	2.5	0.2	13	10
1385	FEB 18	1327 40.0	40.66S	174.90E	13	2.6	0.3	13	8
1386	FEB 18	1416 36.5	40.52S	174.92E	25	2.0	0.2	8	5
1389	FEB 18	1645 57.0	40.54S	173.66E	112	3.0	0.3	20	11

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
1390	FEB 18	1719 57.7	40.87S	174.99E	50	2.2	0.1	10	7
1395	FEB 19	0357 54.5	41.30S	175.17E	23	2.5	0.1	16	13
1408	FEB 19	1851 4.4	41.73S	174.51E	27	2.1	0.2	10	8
1410	FEB 19	2033 33.7	40.98S	174.36E	64	2.7	0.1	18	11
1413	FEB 19	2209 26.5	40.72S	174.54E	63	2.8	0.2	29	16
1418	FEB 20	0145 29.4	40.75S	174.45E	74	4.1	0.2	38	26
1419	FEB 20	0208 8.4	40.68S	174.37E	56	2.4	0.2	13	7
1438	FEB 20	2339 29.7	40.51S	174.43E	50	2.3	0.1	11	6
1444	FEB 21	0350 28.1	40.99S	175.55E	24	2.5	0.1	15	11
1446	FEB 21	0723 17.2	41.53S	175.04E	25	3.1	0.1	21	15
1451	FEB 21	1032 15.9	40.91S	175.86E	42	2.3	0.2	13	9
1452	FEB 21	1305 52.8	41.18S	173.87E	59	2.2	0.1	10	7
1453	FEB 21	1412 15.3	41.03S	174.02E	54	2.5	0.3	12	8
1458	FEB 21	2107 41.3	40.92S	175.68E	24	2.3	0.1	16	12
1463	FEB 22	0114 47.8	40.84S	174.63E	40	2.0	0.1	10	8
1474	FEB 22	0812 15.3	40.80S	175.51E	26	2.1	0.1	13	8
1488	FEB 22	2251 48.1	41.04S	175.49E	5R	2.8	0.2	21	17
1493	FEB 23	0801 27.7	40.59S	174.36E	11	2.2	0.2	9	5
1496	FEB 23	1243 34.6	40.90S	175.16E	32	3.0	0.2	19	14
1498	FEB 23	1313 22.4	40.90S	175.16E	32	2.4	0.1	16	11
1501	FEB 23	1759 24.4	40.89S	175.76E	30	2.3	0.1	10	7
1513	FEB 24	0847 40.1	40.58S	175.50E	27	2.6	0.2	19	15
1514	FEB 24	0907 38.5	40.98S	174.60E	56	2.4	0.1	10	8
1515	FEB 24	1048 53.4	40.85S	174.90E	35	2.1	0.1	11	9
1517	FEB 24	1211 46.5	40.61S	175.49E	31	2.0	0.1	7	5
1519	FEB 24	1305 27.4	41.49S	173.50E	57	2.5	0.2	11	7
1520	FEB 24	1519 8.1	40.89S	175.43E	24	2.6	0.1	16	11
1521	FEB 24	1538 3.6	40.91S	175.42E	25	2.2	0.1	12	8
1529	FEB 24	2159 18.8	41.54S	174.54E	19	2.6	0.1	19	14
1530	FEB 24	2233 15.2	41.10S	174.71E	32	2.7	0.1	19	13
1541	FEB 25	0712 41.0	41.67S	174.53E	30	2.1	0.2	9	8
1542	FEB 25	0838 14.7	40.98S	175.31E	18	2.3	0.2	15	11
1543	FEB 25	0851 21.4	41.39S	173.78E	73	2.3	0.1	5	4
1549	FEB 25	1124 9.4	41.11S	173.99E	55	2.6	0.1	13	8
1550	FEB 25	1145 30.8	40.82S	175.55E	5R	2.8	0.3	19	16
1571	FEB 26	0346 36.5	40.92S	174.72E	61	2.4	0.2	16	11
1583	FEB 26	1230 7.0	41.39S	173.81E	60	2.2	0.1	8	5
1587	FEB 26	1733 21.4	41.09S	175.38E	28	2.0	0.1	12	9
1616	FEB 28	0101 4.8	41.57S	174.00E	15	2.3	0.2	9	8
1620	FEB 28	0550 57.8	40.67S	175.51E	28	3.1	0.2	22	18
1625	FEB 28	0825 16.0	41.23S	174.62E	29	2.2	0.1	14	10
1640	FEB 28	2129 58.1	41.67S	174.60E	28	2.5	0.1	10	7
1643	FEB 29	0219 41.1	41.57S	174.66E	30	2.4	0.2	12	10
1650	FEB 29	1013 18.8	40.85S	174.77E	62	2.6	0.1	15	11
1669	FEB 29	1713 46.6	40.93S	174.18E	51	2.2	0.1	14	9

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
1671	FEB 29	1751 25.2	40.63S	173.62E	97	2.4	0.3	12	8
1680	MAR 01	0031 57.3	41.23S	175.18E	25	2.1	0.2	16	11
1708	MAR 01	1903 4.0	41.43S	173.52E	109	2.6	0.2	8	6
1833	MAR 02	1840 10.8	40.63S	173.68E	129	2.5	0.1	14	8
1835	MAR 02	1924 26.0	40.94S	173.69E	77	2.8	0.2	19	11
1880	MAR 03	0812 8.3	41.71S	174.49E	31	2.1	0.0	6	4
1893	MAR 03	1043 34.1	40.75S	174.15E	81	2.5	0.2	15	9
1894	MAR 03	1133 35.8	41.92S	173.92E	11	2.2	0.2	9	7
1904	MAR 03	1713 13.4	41.10S	174.89E	29	2.9	0.1	19	13
1910	MAR 03	2303 28.0	41.81S	173.87E	12R	2.2	0.3	9	8
1931	MAR 04	0613 48.4	40.70S	174.23E	48	2.1	0.2	8	5
1952	MAR 04	1123 11.0	40.95S	175.21E	42	2.0	0.1	11	8
1964	MAR 04	1735 17.1	40.58S	174.34E	73	2.3	0.2	15	9
1969	MAR 04	1802 6.3	41.67S	174.29E	5R	2.1	0.3	9	7
1978	MAR 04	2223 34.1	40.69S	175.23E	32	2.3	0.1	11	7
1981	MAR 05	0020 47.4	41.76S	174.41E	5R	2.2	0.2	6	5
1990	MAR 05	0238 17.9	41.37S	173.93E	48	2.8	0.2	23	16
1991	MAR 05	0242 46.8	41.35S	173.86E	47	2.0	0.1	8	5
2033	MAR 05	1753 2.3	40.57S	173.88E	89	2.5	0.2	13	8
2037	MAR 05	1924 49.1	40.62S	175.55E	33	2.0	0.1	8	5
2040	MAR 05	2010 5.6	41.07S	174.44E	5R	2.2	0.1	13	8
2041	MAR 05	2035 27.0	41.09S	174.47E	33	2.1	0.1	11	8
2057	MAR 06	0548 14.5	41.74S	174.42E	2	2.3	0.2	7	6
2059	MAR 06	0658 38.9	41.41S	174.85E	22	2.4	0.3	19	12
2060	MAR 06	0723 28.8	41.14S	175.24E	26	2.3	0.2	16	10
2072	MAR 06	0934 0.0	41.15S	174.45E	42	2.9	0.2	21	14
2075	MAR 06	1138 11.5	41.51S	174.10E	20	2.4	0.3	13	9
2082	MAR 06	1252 19.9	40.69S	174.18E	69	2.7	0.2	23	14
2084	MAR 06	1330 12.8	40.60S	175.14E	31	2.1	0.1	8	5
2085	MAR 06	1419 46.9	40.71S	175.92E	29	2.1	0.1	8	3
2090	MAR 06	1627 21.8	40.90S	175.36E	31	2.2	0.1	13	9
2094	MAR 06	1654 57.4	40.70S	174.96E	34	2.3	0.1	16	11
2097	MAR 06	1712 17.9	41.17S	175.06E	29	2.1	0.2	12	8
2101	MAR 06	1922 23.9	40.95S	174.78E	34	2.1	0.0	15	10
2106	MAR 06	2303 11.8	40.89S	174.90E	35	2.0	0.0	13	9
2118	MAR 07	0537 10.9	41.07S	174.72E	31	2.2	0.1	15	11
2122	MAR 07	0851 6.6	41.10S	173.88E	65	2.3	0.2	9	6
2154	MAR 07	2307 39.0	41.63S	173.62E	56	2.6	0.3	20	13
2155	MAR 07	2345 25.7	40.93S	175.69E	28	2.8	0.2	21	15
2166	MAR 08	0903 38.6	41.46S	174.12E	52	2.2	0.2	6	4
2169	MAR 08	1021 5.4	40.58S	175.09E	62	2.3	0.1	8	6
2195	MAR 09	0401 2.4	40.63S	175.49E	31	2.3	0.1	12	7
2204	MAR 09	1125 26.0	41.10S	174.89E	29	2.9	0.2	21	15
2208	MAR 09	1501 51.5	41.30S	175.17E	23	2.3	0.2	15	11
2210	MAR 09	1528 39.4	41.04S	175.38E	29	2.9	0.3	21	16

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
2221	MAR 09	2208 43.9	41.61S	173.68E	59	2.5	0.1	13	8
2234	MAR 10	0642 25.6	41.31S	175.16E	22	2.4	0.1	14	10
2240	MAR 10	0807 39.0	40.88S	174.76E	40	2.2	0.2	13	8
2253	MAR 10	1830 28.8	40.88S	174.49E	67	2.4	0.1	9	7
2255	MAR 10	1945 30.0	40.88S	176.00E	28	2.6	0.2	19	12
2258	MAR 10	2059 43.1	40.88S	176.00E	30	2.2	0.3	10	6
2260	MAR 10	2231 53.5	41.52S	174.65E	56	3.0	0.2	23	14
2267	MAR 11	0221 21.9	40.88S	176.00E	25	2.4	0.3	19	12
2272	MAR 11	0424 47.4	40.61S	175.49E	31	2.4	0.1	6	4
2276	MAR 11	0728 14.8	40.89S	176.00E	30	2.2	0.2	10	6
2283	MAR 11	1216 3.3	41.58S	174.59E	59	2.3	0.0	8	4
2288	MAR 11	1604 22.0	40.64S	174.44E	48	2.0	0.1	8	5
2303	MAR 12	0128 48.5	41.38S	174.97E	25	2.2	0.1	12	9
2307	MAR 12	0247 40.6	40.70S	174.42E	73	2.6	0.2	17	11
2316	MAR 12	1012 50.3	41.71S	174.53E	28	2.2	0.2	10	7
2318	MAR 12	1207 48.2	41.14S	174.92E	18	2.3	0.2	18	12
2329	MAR 12	1836 27.5	41.66S	174.61E	30	2.5	0.2	13	10
2336	MAR 12	2125 45.6	41.04S	174.52E	51	2.2	0.0	8	6
2339	MAR 13	0051 6.9	41.60S	174.30E	20	2.2	0.2	11	8
2340	MAR 13	0057 2.4	41.59S	174.29E	21	2.4	0.2	12	7
2342	MAR 13	0237 37.0	41.72S	174.52E	32	2.0	0.0	8	5
2345	MAR 13	0406 57.5	41.22S	173.74E	65	2.4	0.1	12	7
2385	MAR 14	0505 34.1	41.80S	174.40E	27	2.3	0.2	12	10
2388	MAR 14	0659 34.0	40.57S	174.98E	5R	2.5	0.2	15	12
2419	MAR 15	0051 48.6	41.19S	174.32E	33	2.5	0.2	13	10
2432	MAR 15	1302 23.7	41.28S	174.84E	28	2.4	0.1	16	11
2437	MAR 15	1456 41.8	40.95S	175.54E	29	2.6	0.2	19	15
2441	MAR 15	2237 42.4	41.72S	174.54E	35	2.6	0.1	9	7
2444	MAR 16	0441 15.2	41.13S	173.86E	55	2.8	0.1	8	4
2451	MAR 16	0946 56.0	41.06S	175.01E	26	2.5	0.1	8	7
2452	MAR 16	1022 26.0	40.55S	174.41E	37	2.3	0.1	6	4
2453	MAR 16	1214 31.0	41.42S	174.62E	25	2.2	0.1	9	6
2483	MAR 17	2327 41.9	40.88S	175.42E	42	3.6	0.3	32	23
2484	MAR 17	2351 59.8	41.73S	173.76E	62	2.3	0.2	7	4
2500	MAR 18	0527 10.5	41.69S	174.52E	29	2.5	0.2	10	8
2502	MAR 18	0639 44.4	41.44S	173.78E	50	3.0	0.3	18	12
2507	MAR 18	0948 25.1	40.69S	174.75E	19	2.1	0.1	7	6
2520	MAR 18	1732 33.8	41.28S	173.72E	58	2.7	0.2	7	5
2521	MAR 18	1759 52.3	40.82S	174.72E	38	2.0	0.0	8	5
2532	MAR 19	0323 14.4	41.36S	174.08E	36	2.6	0.1	15	11
2535	MAR 19	0352 44.4	40.72S	174.56E	36	2.4	0.1	14	10
2539	MAR 19	0553 57.1	41.23S	174.65E	34	2.9	0.2	24	17
2546	MAR 19	0943 25.1	40.97S	175.27E	27	2.1	0.2	13	9
2548	MAR 19	1207 47.2	41.64S	174.39E	3	2.4	0.2	18	12
2565	MAR 20	0653 50.7	41.63S	174.58E	29	2.3	0.0	8	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
2570	MAR 20	1127 12.1	41.42S	174.88E	32	2.6	0.1	15	10
2574	MAR 20	1549 2.5	40.97S	175.92E	32	2.2	0.2	11	8
2579	MAR 20	2033 33.9	41.00S	175.58E	27	2.2	0.2	10	8
2588	MAR 21	0536 56.5	40.55S	174.42E	73	2.5	0.1	8	6
2599	MAR 21	1302 26.2	40.61S	175.49E	30	2.7	0.2	20	14
2610	MAR 21	2205 46.2	40.77S	175.46E	26	2.2	0.2	8	6
2611	MAR 21	2211 21.8	41.05S	175.24E	29	2.2	0.2	12	9
2614	MAR 22	0033 28.8	40.86S	174.75E	11	2.0	0.2	9	7
2620	MAR 22	0323 53.7	41.27S	175.00E	25	2.5	0.1	19	13
2621	MAR 22	0502 52.4	41.74S	174.34E	34	2.3	0.2	9	7
2622	MAR 22	0507 11.8	41.23S	174.53E	22	2.4	0.2	19	13
2623	MAR 22	0513 26.7	41.18S	173.75E	72	2.2	0.1	13	7
2624	MAR 22	0539 60.0	40.59S	174.42E	14	2.3	0.1	9	7
2625	MAR 22	0601 46.9	40.71S	174.44E	68	2.4	0.2	9	7
2629	MAR 22	1310 17.1	41.71S	174.09E	22	2.3	0.2	9	6
2630	MAR 22	1315 57.9	41.31S	174.84E	28	2.3	0.1	13	10
2631	MAR 22	1418 7.2	41.65S	174.29E	11	2.1	0.2	7	5
2634	MAR 22	1456 48.0	40.59S	175.80E	32	2.4	0.2	12	9
2649	MAR 22	2349 23.6	41.76S	174.47E	25	2.1	0.2	10	7
2650	MAR 23	0031 37.3	40.92S	175.06E	33	2.9	0.1	20	14
2656	MAR 23	0455 10.6	40.63S	174.36E	9	2.1	0.2	11	7
2661	MAR 23	0853 28.8	41.13S	174.87E	44	2.0	0.1	8	6
2676	MAR 23	1745 21.5	40.54S	175.83E	31	2.3	0.2	8	4
2691	MAR 24	0653 58.1	40.91S	175.48E	24	2.4	0.1	14	10
2700	MAR 24	1140 46.4	40.68S	174.00E	56	2.4	0.1	8	4
2701	MAR 24	1259 57.1	41.41S	175.03E	27	2.2	0.1	17	12
2706	MAR 24	1433 17.3	40.74S	174.43E	48	2.7	0.2	19	13
2707	MAR 24	1500 21.5	41.01S	175.29E	26	2.1	0.1	10	6
2709	MAR 24	1508 20.6	41.85S	174.86E	33	2.8	0.1	20	13
2714	MAR 24	1728 1.2	40.67S	175.51E	28	2.8	0.2	15	15
2715	MAR 24	1728 7.8	40.69S	175.54E	28	2.9	0.3	19	13
2729	MAR 25	0733 6.5	41.11S	174.18E	41	2.5	0.2	12	9
2741	MAR 25	1245 51.0	41.39S	175.01E	28	2.1	0.1	18	11
2748	MAR 25	1504 13.6	40.73S	175.90E	24	2.7	0.4	24	18
2794	MAR 25	1907 58.9	41.46S	174.63E	53	2.3	0.1	9	7
2821	MAR 25	2213 48.6	41.01S	174.90E	48	2.2	0.0	11	8
2827	MAR 25	2302 3.9	41.71S	173.97E	32	2.2	0.3	11	7
2830	MAR 25	2342 31.1	41.62S	174.35E	33	2.2	0.2	12	9
2847	MAR 26	0238 27.4	41.63S	174.23E	5R	2.2	0.3	9	8
2861	MAR 26	0526 58.7	41.08S	174.87E	30	2.9	0.1	18	12
2870	MAR 26	0753 5.3	41.98S	174.73E	29	2.1	0.1	7	5
2876	MAR 26	0849 35.7	41.83S	173.92E	12R	2.0	0.2	8	6
2894	MAR 26	1300 13.5	41.03S	174.02E	55	2.1	0.1	8	5
2910	MAR 26	1410 9.5	41.20S	175.22E	19	2.2	0.3	14	9
2934	MAR 26	1937 12.8	40.80S	174.76E	16	2.5	0.3	18	11

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
2945	MAR 26	2207 57.9	40.54S	174.38E	51	2.3	0.2	11	6
2989	MAR 27	1716 56.0	41.71S	174.49E	32	2.2	0.1	8	7
2992	MAR 27	2008 2.1	41.63S	173.59E	53	3.2	0.2	22	19
2993	MAR 27	2125 27.8	40.84S	174.81E	22	2.2	0.2	8	4
3006	MAR 28	0141 38.4	41.33S	175.26E	19	2.1	0.2	11	8
3022	MAR 28	0951 3.2	40.63S	175.81E	33	2.6	0.0	5	3
3046	MAR 29	1234 35.8	40.95S	174.46E	46	2.8	0.3	15	10
3052	MAR 29	1844 51.7	41.97S	174.83E	30	2.5	0.2	9	7
3074	MAR 30	0624 26.4	40.69S	174.98E	5R	2.6	0.2	17	13
3203	MAR 30	0947 3.1	40.85S	175.99E	34	2.0	0.3	10	8
3273	MAR 30	1526 49.5	41.09S	174.07E	57	3.1	0.3	27	18
3311	MAR 30	2038 32.2	41.23S	174.59E	21	2.2	0.1	10	8
3316	MAR 30	2110 5.4	40.97S	174.31E	62	4.3F	0.2	38	31
3356	MAR 31	0250 52.2	40.52S	175.65E	46	2.2	0.2	7	3
3357	MAR 31	0316 21.6	40.68S	174.99E	12	2.4	0.2	14	9
3390	MAR 31	0932 26.8	41.70S	174.93E	28	2.1	0.0	7	4
3397	MAR 31	1116 25.7	40.95S	173.69E	80	2.3	0.2	12	7
3417	MAR 31	1454 34.3	40.94S	175.55E	23	2.8	0.2	24	17
3429	MAR 31	1815 12.8	41.06S	175.47E	12	2.7	0.2	22	17
3450	APR 01	0028 33.3	40.83S	174.73E	17	2.5	0.3	10	5
3471	APR 01	0845 49.7	40.69S	174.02E	59	2.7	0.1	17	9
3472	APR 01	0929 5.2	40.73S	174.02E	66	2.8	0.1	10	6
3478	APR 01	1121 7.5	41.20S	173.95E	53	2.5	0.2	12	7
3500	APR 01	2124 32.2	41.51S	173.62E	65	3.0	0.2	26	16
3547	APR 02	0359 47.1	40.58S	174.79E	5R	2.2	0.3	8	6
3577	APR 02	1130 35.4	40.93S	175.65E	25	2.2	0.2	13	8
3589	APR 02	1611 57.9	40.63S	174.41E	47	2.7	0.2	14	9
3595	APR 02	1950 28.3	41.28S	174.53E	34	2.7	0.1	16	9
3597	APR 02	2057 11.7	40.50S	174.51E	55	2.1	0.2	9	6
3613	APR 03	0405 17.6	40.83S	175.91E	24	3.2	0.3	26	17
3687	APR 03	1738 4.0	41.19S	175.51E	19	2.1	0.1	13	8
3696	APR 03	1818 39.1	41.46S	174.35E	28	2.3	0.1	10	7
3744	APR 04	0933 58.9	40.82S	175.96E	27	3.7	0.3	24	20
3755	APR 04	1311 45.0	41.64S	174.63E	31	2.6	0.2	11	9
3759	APR 04	1403 1.3	41.72S	174.85E	30	2.6	0.2	13	10
3803	APR 05	0959 7.5	40.65S	175.88E	25	2.6	0.3	17	12
3804	APR 05	1003 57.8	40.96S	175.41E	25	2.0	0.1	9	7
3807	APR 05	1041 59.9	40.54S	174.24E	66	2.6	0.2	15	8
3840	APR 06	0220 17.2	41.41S	175.35E	37	2.1	0.1	10	7
3847	APR 06	0543 52.5	40.62S	175.48E	30	2.1	0.1	8	6
3876	APR 06	1704 3.8	40.86S	175.77E	32	2.7	0.2	19	16
3878	APR 06	1727 46.2	41.69S	174.14E	22	2.2	0.2	12	9
3881	APR 06	1956 21.8	40.75S	175.87E	22	2.6	0.3	19	13
3895	APR 07	0126 18.3	40.71S	175.95E	31	2.5	0.2	16	10
3897	APR 07	0402 10.4	40.97S	174.53E	54	2.3	0.1	8	5

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3903	APR 07	0805 5.8	41.41S	175.01E	25	2.1	0.1	12	8
3911	APR 07	1332 26.4	41.68S	173.68E	62	2.3	0.0	7	4
3926	APR 07	1922 3.8	40.67S	175.94E	30	2.4	0.2	12	8
3933	APR 07	2242 44.2	40.53S	175.46E	34	2.4	0.1	11	8
3935	APR 08	0032 4.7	40.64S	174.36E	5R	2.2	0.3	11	7
3953	APR 08	1614 22.7	40.61S	174.72E	22	2.9	0.2	23	18
3958	APR 08	2220 30.7	41.26S	174.31E	60	3.8	0.1	37	24
3964	APR 09	0250 1.7	40.50S	174.68E	30	2.3	0.2	13	8
3976	APR 09	1158 30.7	41.24S	173.94E	56	2.9	0.2	25	17
3984	APR 09	1426 34.0	41.37S	175.12E	26	2.1	0.1	15	10
3997	APR 09	2038 11.9	40.94S	174.56E	37	2.1	0.1	10	8
3998	APR 09	2116 26.7	41.67S	173.56E	48	2.6	0.3	17	11
4027	APR 10	1117 51.2	40.93S	175.99E	32	2.2	0.1	10	8
4028	APR 10	1245 50.6	41.99S	174.03E	16	2.3	0.2	8	6
4031	APR 10	1556 45.7	40.94S	174.73E	58	2.0	0.1	7	4
4034	APR 10	1620 21.9	41.06S	174.83E	53	3.0	0.1	25	18
4056	APR 11	0553 4.0	40.66S	175.52E	29	2.2	0.0	6	4
4067	APR 11	1620 48.8	41.60S	174.35E	24	2.7	0.2	21	15
4068	APR 11	1623 22.8	41.59S	174.32E	24	2.4	0.2	13	9
4074	APR 11	1948 42.0	41.66S	174.30E	9	2.8	0.3	18	15
4078	APR 11	2305 40.2	41.47S	174.46E	43	3.4F	0.2	35	21
4088	APR 12	1013 44.9	40.59S	175.96E	12	2.1	0.2	10	8
4093	APR 12	1309 42.2	40.50S	174.33E	57	2.8	0.2	27	18
4104	APR 12	2002 48.5	41.03S	174.44E	54	2.1	0.0	7	5
4123	APR 13	0400 5.0	40.87S	173.53E	81	2.4	0.2	9	5
4135	APR 13	1305 51.1	41.71S	174.38E	15	2.5	0.2	18	11
4138	APR 13	1350 11.5	41.73S	174.36E	10	2.8	0.3	16	15
4139	APR 13	1350 19.2	41.70S	174.32E	14	4.8F	0.2	28	22
4140	APR 13	1401 36.9	41.73S	174.35E	11	3.6	0.2	26	19
4142	APR 13	1456 32.8	41.73S	174.34E	8	2.4	0.2	12	8
4146	APR 13	1742 4.6	41.74S	174.50E	28	3.0	0.2	24	15
4151	APR 13	2115 10.2	41.73S	174.35E	9	3.2	0.3	25	17
4154	APR 13	2357 13.1	41.60S	174.05E	44	3.2	0.2	25	16
4155	APR 14	0046 1.1	41.71S	174.30E	20	3.7	0.2	25	20
4162	APR 14	0509 45.2	40.60S	175.49E	32	2.3	0.1	11	6
4187	APR 14	1916 38.3	40.75S	175.86E	28	2.5	0.3	15	11
4188	APR 14	2138 5.9	41.71S	174.30E	19	4.2	0.3	23	19
4189	APR 14	2139 20.0	41.72S	174.32E	20	4.1	0.3	20	17
4192	APR 14	2157 33.5	40.87S	174.75E	15	2.2	0.2	10	7
4193	APR 14	2225 2.2	41.71S	174.29E	14	2.1	0.2	17	11
4202	APR 15	0542 10.0	41.60S	174.11E	22	2.1	0.2	14	11
4203	APR 15	0604 4.3	41.02S	174.00E	50	2.0	0.1	7	4
4206	APR 15	0701 4.9	40.64S	175.89E	28	2.1	0.1	11	7
4220	APR 15	1429 41.6	41.85S	174.23E	26	2.2	0.2	17	10
4224	APR 15	1543 3.8	41.71S	174.53E	29	2.3	0.2	14	12

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
4225	APR 15	1604 13.2	41.71S	174.13E	13	2.0	0.2	9	6
4226	APR 15	1638 16.1	40.80S	174.42E	25	2.2	0.2	11	8
4241	APR 16	0318 42.0	40.54S	174.80E	5R	2.7	0.3	14	11
4251	APR 16	0710 24.8	41.06S	175.33E	13	3.6F	0.2	23	21
4252	APR 16	0748 4.7	41.05S	175.32E	13	2.6	0.2	17	15
4255	APR 16	0918 16.4	40.59S	174.85E	12R	2.3	0.2	9	6
4278	APR 16	2245 38.8	40.87S	175.80E	30	2.8	0.2	15	12
4292	APR 17	0512 53.6	41.90S	174.26E	25	2.3	0.2	12	8
4312	APR 17	1329 51.9	41.00S	174.61E	33	2.6	0.1	18	12
4322	APR 17	2105 27.6	41.39S	174.28E	35	2.1	0.1	11	7
4325	APR 17	2149 8.5	40.50S	174.12E	67	2.1	0.2	10	6
4332	APR 18	0116 18.4	41.62S	174.78E	28	2.5	0.2	18	12
4334	APR 18	0220 56.3	41.01S	174.26E	46	2.8	0.2	23	17
4337	APR 18	0706 9.5	40.59S	173.65E	112	2.8	0.4	14	9
4341	APR 18	0845 19.3	40.62S	175.88E	34	2.4	0.2	10	8
4361	APR 18	1729 26.4	40.90S	175.20E	31	2.1	0.2	9	6
4363	APR 18	1818 35.6	41.72S	174.49E	25	2.1	0.2	13	9
4366	APR 18	1853 9.3	40.60S	174.42E	46	2.0	0.1	12	6
4369	APR 18	2154 29.8	41.12S	174.64E	32	2.0	0.1	10	7
4370	APR 18	2158 24.4	41.51S	175.32E	20	2.4	0.3	11	9
4373	APR 18	2215 33.1	41.13S	174.77E	30	2.1	0.1	14	9
4380	APR 19	0313 3.5	41.49S	174.24E	12R	2.7	0.3	13	10
4381	APR 19	0313 21.9	41.21S	173.62E	85	3.1	0.2	16	11
4393	APR 19	1247 36.3	40.84S	174.55E	29	2.4	0.3	12	8
4397	APR 19	1540 28.0	41.27S	174.99E	25	3.5F	0.1	22	19
4398	APR 19	1546 8.2	41.28S	174.99E	24	2.0	0.1	10	7
4408	APR 19	1953 28.1	41.27S	175.00E	24	2.5	0.1	14	10
4409	APR 19	2017 20.5	41.16S	174.13E	47	2.7	0.3	16	10
4415	APR 20	0218 32.6	41.28S	174.99E	24	2.1	0.1	8	6
4432	APR 20	1245 45.2	41.15S	173.53E	89	3.2	0.2	32	16
4443	APR 20	2151 49.5	41.14S	173.89E	61	2.9	0.2	21	14
4453	APR 21	0320 20.6	40.99S	175.60E	24	2.5	0.2	13	10
4462	APR 21	1446 50.0	40.50S	174.44E	86	2.4	0.2	12	8
4463	APR 21	1500 50.9	40.89S	175.48E	28	2.1	0.1	13	8
4469	APR 21	2147 38.3	40.81S	175.09E	36	2.4	0.2	12	7
4474	APR 22	0352 51.9	41.46S	175.72E	25	2.9	0.1	14	11
4476	APR 22	0434 12.2	41.46S	175.73E	25	2.9	0.2	13	10
4488	APR 22	1344 30.1	40.62S	175.47E	33	2.8	0.3	19	15
4490	APR 22	1451 16.6	41.09S	174.69E	61	3.1	0.1	28	18
4491	APR 22	1539 30.6	40.69S	175.87E	28	2.2	0.2	12	8
4493	APR 22	1551 46.9	41.54S	175.39E	20	2.4	0.3	10	8
4504	APR 23	0301 28.1	41.32S	174.76E	62	2.2	0.2	6	4
4507	APR 23	0409 28.1	41.07S	173.70E	57	2.4	0.2	10	8
4512	APR 23	1210 59.9	41.02S	174.85E	52	2.8	0.1	17	10
4517	APR 23	2025 44.9	41.65S	174.20E	1	2.7	0.2	20	16

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4520	APR 24	0150 21.0	41.11S	173.97E	45	2.0	0.1	7	5
4523	APR 24	0447 23.9	40.83S	174.47E	73	2.1	0.1	10	6
4533	APR 24	1127 17.4	40.56S	174.59E	45	2.2	0.1	12	7
4538	APR 24	1431 48.4	40.56S	173.91E	85	2.0	0.2	10	5
4545	APR 24	1822 11.4	40.70S	175.87E	25	2.0	0.3	12	7
4550	APR 24	2135 40.1	41.73S	174.15E	12R	2.3	0.4	18	14
4552	APR 25	0019 53.5	41.13S	174.72E	58	3.5	0.2	27	23
4560	APR 25	0707 25.9	40.86S	173.75E	86	3.3	0.3	37	22
4561	APR 25	0718 9.3	41.82S	173.51E	38	2.7	0.3	26	16
4563	APR 25	0800 57.9	41.73S	174.51E	28	2.1	0.2	8	6
4564	APR 25	1046 26.8	40.84S	174.72E	18	2.0	0.3	14	8
4574	APR 25	1753 50.2	41.11S	173.68E	78	2.2	0.2	10	7
4576	APR 25	1942 12.0	41.05S	175.26E	23	2.2	0.2	16	10
4582	APR 26	0125 16.1	40.65S	175.48E	30	2.6	0.1	13	9
4585	APR 26	0655 41.8	40.90S	174.91E	57	2.4	0.1	12	9
4589	APR 26	0750 12.2	40.81S	175.31E	28	2.2	0.1	13	9
4593	APR 26	1404 42.9	41.40S	175.06E	26	2.5	0.1	18	11
4602	APR 26	1939 11.2	40.54S	175.14E	33	2.6	0.2	17	14
4608	APR 27	0001 34.8	41.78S	174.46E	5R	2.3	0.1	9	7
4627	APR 27	1322 54.6	41.03S	174.45E	54	2.2	0.0	9	6
4629	APR 27	1447 14.9	41.22S	174.64E	34	2.0	0.1	8	6
4636	APR 27	2215 23.1	40.97S	175.01E	30	2.7	0.2	14	11
4637	APR 27	2220 52.8	41.59S	174.37E	23	2.6	0.3	20	13
4638	APR 27	2239 29.3	40.67S	175.47E	26	2.5	0.2	15	11
4639	APR 27	2315 30.3	41.41S	173.50E	91	3.6	0.3	34	22
4644	APR 28	0314 52.5	41.64S	174.25E	9	2.6	0.3	16	13
4647	APR 28	0512 41.2	41.16S	175.44E	27	2.2	0.1	10	6
4651	APR 28	0556 45.6	40.69S	175.55E	25	3.3	0.2	21	16
4654	APR 28	0741 50.2	41.25S	174.44E	18	2.5	0.1	16	11
4659	APR 28	0929 38.8	41.27S	175.00E	24	2.3	0.1	16	10
4670	APR 28	2326 25.6	41.10S	174.20E	53	2.8	0.2	10	6
4741	APR 29	1416 9.6	41.92S	173.95E	20	2.4	0.2	14	7
4742	APR 29	1435 10.7	41.96S	174.04E	12R	2.6	0.3	18	13
4764	APR 29	2228 38.4	40.84S	174.73E	16	2.3	0.2	10	5
4767	APR 29	2313 55.7	41.32S	175.12E	16	2.1	0.2	11	8
4770	APR 30	0006 17.4	41.66S	174.59E	28	2.2	0.1	9	6
4792	APR 30	1353 1.9	41.44S	174.51E	55	2.3	0.1	13	10
4795	APR 30	1622 17.1	40.74S	174.59E	77	3.6	0.2	31	23
4802	APR 30	2159 30.9	40.76S	175.28E	27	2.8	0.2	18	14
4807	MAY 01	0302 39.0	41.07S	174.69E	61	2.9	0.0	15	10
4809	MAY 01	0318 11.8	41.16S	173.97E	52	2.2	0.1	8	5
4815	MAY 01	0631 59.5	41.26S	175.17E	7	2.1	0.3	12	9
4824	MAY 01	1143 55.4	41.52S	175.33E	21	2.1	0.3	12	9
4830	MAY 01	1505 50.3	41.58S	174.47E	5R	2.1	0.3	18	12
4865	MAY 02	1018 14.3	41.28S	175.00E	24	2.4	0.1	13	9

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
4868	MAY 02	1249 24.4	41.72S	174.62E	28	2.2	0.2	10	7
4872	MAY 02	1601 13.4	40.65S	175.56E	29	2.2	0.1	8	5
4880	MAY 02	1958 6.2	40.63S	174.39E	79	2.4	0.2	17	11
4890	MAY 03	0103 1.4	40.64S	175.53E	29	2.5	0.1	10	8
4893	MAY 03	0321 43.8	41.23S	175.34E	27	2.6	0.2	13	9
4902	MAY 03	0514 3.3	40.56S	175.75E	32	2.4	0.1	11	9
4903	MAY 03	0517 47.0	41.84S	174.05E	20	2.2	0.2	10	7
4906	MAY 03	0844 12.8	40.63S	175.77E	26	2.5	0.2	17	14
4908	MAY 03	1113 6.4	40.85S	174.67E	37	2.0	0.2	13	8
4911	MAY 03	1343 39.2	41.19S	175.25E	31	3.2	0.2	25	16
4922	MAY 03	2143 24.5	41.70S	174.82E	28	2.3	0.2	15	11
4924	MAY 04	0009 16.2	41.67S	174.25E	5R	2.1	0.3	12	9
4926	MAY 04	0134 39.3	41.16S	174.26E	42	2.2	0.1	10	7
4930	MAY 04	0433 57.2	41.20S	175.04E	26	2.5	0.2	16	11
4947	MAY 04	1559 23.9	40.93S	174.67E	56	3.2	0.2	30	23
4948	MAY 04	1600 50.1	40.53S	173.55E	112	2.4	0.2	17	12
4964	MAY 05	0043 2.3	40.66S	174.22E	55	2.4	0.2	12	8
4966	MAY 05	0133 48.4	40.62S	175.48E	30	2.2	0.1	11	8
4984	MAY 05	1042 28.8	41.70S	174.29E	5R	2.2	0.4	12	10
5006	MAY 05	2205 48.2	41.18S	173.63E	76	3.1	0.3	18	13
5013	MAY 06	0258 48.3	40.91S	175.20E	17	2.5	0.3	12	9
5017	MAY 06	0821 46.3	41.29S	174.82E	30	3.5F	0.2	23	18
5023	MAY 06	1228 4.9	41.73S	174.48E	28	2.1	0.2	10	7
5036	MAY 06	2251 7.8	41.29S	175.30E	29	2.4	0.2	14	10
5043	MAY 07	0401 6.6	40.73S	173.65E	91	2.4	0.3	13	8
5047	MAY 07	0913 48.7	41.63S	174.60E	29	2.2	0.1	7	6
5049	MAY 07	1501 14.6	40.99S	175.34E	14	2.1	0.1	8	6
5056	MAY 07	2041 56.3	41.23S	174.50E	36	2.5	0.2	10	8
5058	MAY 07	2122 37.6	40.63S	175.49E	31	2.0	0.0	5	3
5069	MAY 08	1256 26.3	40.91S	175.16E	29	2.0	0.1	9	6
5074	MAY 08	1840 58.9	40.91S	175.52E	24	2.1	0.1	11	7
5082	MAY 09	1525 25.5	40.90S	175.53E	26	2.7	0.1	13	10
5086	MAY 09	2009 5.6	40.80S	174.88E	24	2.2	0.1	7	3
5092	MAY 10	0117 47.1	41.61S	174.79E	27	2.7	0.2	15	9
5094	MAY 10	0253 29.7	41.84S	174.47E	5R	2.4	0.1	7	6
5097	MAY 10	0558 57.6	41.38S	174.63E	22	2.2	0.1	8	6
5106	MAY 10	1655 52.9	40.96S	174.82E	45	2.5	0.1	15	12
5113	MAY 10	2206 3.7	41.89S	174.10E	13	2.4	0.2	15	9
5116	MAY 10	2317 52.4	41.47S	175.57E	27	2.3	0.2	11	8
5120	MAY 11	0321 6.9	41.35S	175.78E	19	2.4	0.1	13	9
5127	MAY 11	0940 54.1	40.78S	174.47E	52	2.8	0.2	22	15
5130	MAY 11	1120 8.4	40.72S	175.03E	32	2.0	0.1	11	8
5134	MAY 11	1617 19.9	40.60S	175.51E	32	2.1	0.1	8	5
5138	MAY 11	2113 26.2	41.08S	174.51E	59	2.2	0.0	7	5
5139	MAY 11	2117 39.3	40.98S	175.63E	26	2.7	0.2	17	12

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
5141	MAY 12	0353 10.8	41.01S	174.74E	54	2.7	0.0	10	8
5142	MAY 12	0353 41.6	41.09S	175.84E	29	2.3	0.1	10	6
5144	MAY 12	0649 29.5	41.11S	174.61E	57	2.2	0.1	9	7
5145	MAY 12	0802 9.4	41.27S	175.24E	29	2.2	0.2	12	8
5149	MAY 12	1433 42.6	40.53S	173.61E	162	2.7	0.1	8	6
5161	MAY 13	0216 59.0	41.80S	174.11E	12	2.3	0.1	11	7
5162	MAY 13	0400 11.4	40.56S	175.71E	31	2.8	0.1	15	12
5167	MAY 13	0821 33.9	41.75S	174.42E	11	2.8	0.3	15	11
5170	MAY 13	1112 46.3	40.64S	175.83E	49	2.2	0.2	8	5
5175	MAY 13	1237 28.3	41.16S	174.68E	38	3.1	0.2	19	12
5177	MAY 13	1443 5.4	40.96S	174.49E	59	2.2	0.1	6	4
5180	MAY 13	1716 51.8	40.56S	174.42E	5R	2.2	0.2	10	6
5192	MAY 14	0719 5.2	40.94S	175.44E	22	2.9	0.2	14	11
5199	MAY 14	1233 12.7	41.13S	174.77E	31	2.0	0.1	9	7
5201	MAY 14	1316 48.2	40.90S	174.94E	48	2.4	0.1	14	8
5204	MAY 14	1420 15.5	40.55S	174.65E	26	3.2	0.2	20	14
5205	MAY 14	1705 53.6	40.97S	175.25E	27	2.3	0.1	7	5
5208	MAY 14	2340 44.5	41.78S	174.46E	5R	2.5	0.2	10	7
5213	MAY 15	0450 43.9	40.63S	173.57E	181	2.9	0.2	8	7
5214	MAY 15	0602 7.9	40.84S	175.20E	29	2.3	0.1	12	9
5215	MAY 15	0721 44.4	40.69S	174.08E	76	3.4	0.2	34	21
5217	MAY 15	0824 15.5	41.18S	174.94E	137	2.9	0.1	6	4
5220	MAY 15	1213 15.7	41.21S	173.67E	73	2.7	0.1	17	9
5221	MAY 15	1246 16.5	41.53S	174.01E	39	2.8	0.2	21	14
5222	MAY 15	1333 30.1	40.53S	174.09E	67	2.0	0.1	8	5
5223	MAY 15	1400 35.1	41.60S	174.67E	30	2.0	0.2	11	8
5225	MAY 15	1523 6.7	40.55S	175.90E	30	2.6	0.2	18	13
5230	MAY 15	1714 15.1	40.89S	175.01E	32	2.0	0.1	9	7
5235	MAY 15	1857 19.0	40.94S	174.11E	50	2.2	0.1	6	5
5238	MAY 15	2332 22.9	41.45S	173.56E	87	2.5	0.1	6	5
5269	MAY 16	1636 48.8	40.90S	175.72E	29	2.0	0.1	11	8
5295	MAY 16	1936 36.0	41.39S	174.09E	39	2.4	0.1	10	7
5352	MAY 17	0512 12.0	41.58S	175.35E	16	2.0	0.2	10	7
5354	MAY 17	0521 10.4	40.72S	174.52E	5R	2.1	0.4	11	8
5361	MAY 17	0641 43.7	41.56S	175.37E	20	2.4	0.3	12	8
5365	MAY 17	0658 4.7	40.88S	175.81E	27	2.7	0.3	18	12
5398	MAY 17	1301 13.2	40.55S	173.75E	94	2.7	0.2	25	13
5401	MAY 17	1340 57.4	40.69S	173.96E	75	2.5	0.2	13	7
5417	MAY 17	1619 50.0	40.53S	174.35E	80	2.3	0.1	8	6
5434	MAY 17	2126 54.5	41.50S	174.48E	20	2.6	0.2	14	10
5445	MAY 18	0051 35.7	41.33S	174.14E	40	2.7	0.3	14	10
5461	MAY 18	0922 18.0	40.77S	174.63E	35	2.2	0.1	11	7
5486	MAY 18	1535 9.5	40.50S	174.99E	40	2.2	0.0	7	4
5500	MAY 18	1929 39.1	41.87S	174.45E	27	2.3	0.1	8	4
5510	MAY 19	0329 13.6	40.66S	174.33E	55	2.5	0.1	8	5

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5524	MAY 19	0833 24.3	40.60S	174.36E	75	2.5	0.1	7	5
5563	MAY 20	0523 29.4	40.69S	174.97E	2	2.3	0.2	13	9
5573	MAY 20	1129 0.1	40.57S	174.03E	71	2.6	0.2	13	8
5591	MAY 21	0121 4.8	41.19S	173.57E	92	3.4	0.3	26	14
5596	MAY 21	0519 12.0	41.01S	174.55E	34	2.2	0.1	8	5
5611	MAY 21	1456 27.4	41.49S	174.20E	33R	2.1	0.2	12	8
5612	MAY 21	1509 15.1	41.08S	174.91E	29	2.3	0.1	11	8
5617	MAY 21	1824 5.6	40.94S	175.59E	7	2.7	0.3	18	14
5621	MAY 21	2119 27.2	41.00S	175.58E	28	3.5	0.1	16	11
5657	MAY 22	1647 43.8	41.09S	174.30E	82	2.2	0.2	8	5
5671	MAY 23	0304 4.0	41.19S	174.52E	32	2.4	0.2	11	6
5690	MAY 23	1148 34.0	40.92S	174.73E	5R	2.5	0.2	15	10
5695	MAY 23	1519 0.7	41.53S	174.21E	15	2.5	0.1	11	8
5698	MAY 23	1700 12.4	40.69S	174.83E	13	2.0	0.3	12	7
5702	MAY 23	1806 40.7	41.77S	174.46E	7	2.6	0.2	17	11
5703	MAY 23	1827 55.7	40.97S	175.16E	24	2.2	0.2	16	11
5706	MAY 23	2004 24.4	41.17S	173.70E	54	2.3	0.1	9	6
5708	MAY 23	2021 51.8	40.93S	175.51E	20	2.0	0.2	11	7
5717	MAY 24	0207 28.3	41.58S	174.40E	9	2.4	0.2	19	12
5725	MAY 24	1052 15.6	41.59S	173.71E	59	2.3	0.3	9	7
5729	MAY 24	1139 20.4	41.49S	174.42E	17	2.5	0.2	17	11
5732	MAY 24	1259 28.9	40.52S	174.99E	42	2.0	0.0	6	4
5737	MAY 24	1555 56.1	41.33S	173.69E	81	2.6	0.2	19	11
5738	MAY 24	1616 23.2	40.69S	175.03E	5R	2.0	0.2	7	4
5743	MAY 24	1936 38.6	41.77S	174.07E	20	2.4	0.3	12	9
5752	MAY 25	0128 30.3	41.50S	174.24E	5R	2.5	0.2	11	9
5765	MAY 25	1224 55.3	40.51S	174.70E	18	2.7	0.2	23	14
5775	MAY 25	1635 54.9	41.74S	174.49E	22	2.4	0.2	20	13
5776	MAY 25	1640 41.8	41.72S	174.47E	25	2.2	0.1	16	11
5778	MAY 25	1655 29.3	41.67S	174.61E	47	2.3	0.1	15	11
5787	MAY 25	2232 47.9	40.72S	175.23E	29	2.1	0.1	9	6
5795	MAY 26	0315 22.3	41.24S	174.13E	43	2.1	0.2	9	6
5817	MAY 26	1817 10.4	41.85S	173.99E	43	2.9	0.3	31	18
5819	MAY 26	1942 30.5	40.98S	174.19E	47	3.1	0.2	21	14
5824	MAY 27	0047 1.1	41.20S	174.62E	55	2.3	0.1	10	7
5834	MAY 27	0344 56.8	41.20S	174.59E	56	2.6	0.1	19	13
5836	MAY 27	0531 59.6	40.51S	174.30E	80	2.5	0.2	11	8
5840	MAY 27	0736 32.2	41.07S	174.66E	53	3.0	0.1	17	12
5846	MAY 27	1059 25.2	40.64S	174.38E	49	2.4	0.1	12	7
5856	MAY 27	2230 36.1	41.61S	173.65E	84	6.7F	0.1	31	25
5858	MAY 27	2310 51.6	41.49S	174.00E	74	2.4	0.1	11	7
5859	MAY 27	2316 49.2	41.60S	173.66E	79	3.1	0.2	27	17
5861	MAY 28	0059 25.8	41.60S	173.67E	75	3.1	0.2	25	14
5864	MAY 28	0439 24.9	41.59S	173.66E	74	2.7	0.2	14	9
5865	MAY 28	0558 45.5	40.73S	174.01E	75	2.3	0.0	5	4

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5871	MAY 28	1317 51.5	41.08S	175.58E	5R	2.1	0.2	14	11
5872	MAY 28	1402 7.9	40.60S	175.96E	28	2.9	0.3	23	17
5873	MAY 28	1555 49.0	40.67S	174.88E	34	2.3	0.1	14	10
5874	MAY 28	1655 32.7	41.33S	173.69E	68	3.0	0.2	26	18
5896	MAY 29	1012 44.4	41.60S	173.67E	77	2.9	0.2	22	12
5902	MAY 29	1406 15.7	41.61S	173.67E	80	3.9	0.2	38	25
5913	MAY 29	1833 2.0	41.02S	174.88E	45	2.3	0.1	12	9
5921	MAY 29	2135 47.6	41.29S	174.99E	26	2.3	0.1	18	13
5936	MAY 30	1023 18.7	41.30S	174.21E	40	2.4	0.3	16	11
5945	MAY 30	1553 18.9	40.56S	174.80E	208	2.9	0.2	7	4
5958	MAY 30	2113 18.8	40.99S	175.60E	26	2.6	0.1	17	13
5963	MAY 31	0010 13.0	40.51S	175.77E	28	2.3	0.2	16	10
5974	MAY 31	0741 54.5	40.77S	175.25E	28	2.0	0.1	8	6
5975	MAY 31	0811 30.0	41.55S	174.42E	25	2.2	0.2	12	8
5980	MAY 31	0925 32.2	41.17S	174.71E	35	2.1	0.1	12	9
5984	MAY 31	1423 56.6	41.56S	174.43E	17	2.0	0.1	10	7
6003	JUN 01	0048 41.0	40.58S	174.15E	68	2.6	0.3	18	10
6008	JUN 01	0343 15.5	40.57S	174.41E	74	2.4	0.2	13	9
6016	JUN 01	0643 34.2	40.52S	174.01E	84	2.7	0.3	17	10
6026	JUN 01	1027 53.7	40.62S	175.12E	37	2.1	0.0	6	3
6034	JUN 01	1644 49.0	41.39S	175.11E	28	2.2	0.1	20	12
6039	JUN 01	2328 55.6	41.47S	174.36E	11	2.7	0.3	21	16
6042	JUN 02	0150 56.6	41.48S	175.36E	20	2.4	0.3	13	11
6046	JUN 02	0425 55.8	40.83S	174.95E	53	2.0	0.2	7	5
6047	JUN 02	0605 12.1	41.04S	174.58E	59	2.0	0.1	9	7
6055	JUN 02	1141 38.8	41.33S	175.06E	40	2.5	0.0	14	10
6064	JUN 02	1448 0.9	41.05S	174.72E	60	2.7	0.2	23	18
6066	JUN 02	1506 58.9	41.70S	174.34E	5	2.0	0.2	6	4
6073	JUN 02	1956 31.8	40.87S	174.73E	16	2.0	0.1	7	4
6078	JUN 03	0038 15.9	41.14S	175.33E	27	2.3	0.2	12	9
6093	JUN 03	1001 12.1	41.37S	174.94E	30	2.8	0.2	20	16
6096	JUN 03	1244 40.6	40.84S	175.10E	31	2.3	0.1	12	10
6117	JUN 03	2323 52.2	41.09S	174.17E	52	2.3	0.1	10	7
6126	JUN 04	0336 55.6	40.77S	174.87E	36	2.0	0.2	9	6
6128	JUN 04	0448 54.8	41.29S	173.62E	66	2.4	0.1	10	8
6134	JUN 04	1243 50.6	41.13S	174.48E	40	3.7F	0.1	33	27
6135	JUN 04	1311 34.6	41.71S	174.48E	27	2.3	0.1	13	10
6144	JUN 04	2119 15.1	41.11S	175.31E	28	2.1	0.1	11	9
6147	JUN 04	2219 56.9	41.00S	174.22E	52	2.4	0.1	8	6
6156	JUN 05	0432 43.5	41.65S	174.60E	31	2.4	0.1	14	12
6164	JUN 05	0859 29.9	41.15S	174.80E	48	2.0	0.1	8	6
6169	JUN 05	1143 18.8	41.74S	174.58E	26	2.1	0.2	13	10
6174	JUN 05	1306 19.0	41.75S	174.46E	24	2.0	0.1	9	6
6184	JUN 05	1728 28.6	41.79S	174.44E	27	2.2	0.2	11	8
6190	JUN 06	0310 56.0	41.54S	174.37E	3	2.5	0.3	21	15

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
6193	JUN 06	0500 4.6	41.09S	174.47E	34	2.0	0.0	6	4
6200	JUN 06	1910 7.9	41.04S	174.21E	52	2.1	0.1	7	4
6209	JUN 07	0016 34.2	40.56S	174.74E	33	2.2	0.1	10	7
6212	JUN 07	0129 44.5	40.98S	174.53E	10	2.1	0.2	8	5
6226	JUN 07	1315 40.3	40.82S	175.12E	31	3.0	0.3	17	14
6233	JUN 07	1631 55.9	41.52S	174.52E	64	2.4	0.3	7	4
6235	JUN 07	1716 58.5	40.60S	174.36E	54	2.2	0.2	5	4
6240	JUN 07	2157 41.1	41.05S	174.84E	51	2.6	0.1	9	8
6245	JUN 07	2240 40.2	41.62S	174.76E	25	2.3	0.1	6	5
6249	JUN 08	0204 7.6	41.59S	174.83E	23	2.0	0.1	9	7
6252	JUN 08	0525 7.1	40.97S	175.47E	15	2.1	0.1	11	9
6253	JUN 08	0535 6.4	41.62S	174.63E	27	2.1	0.1	7	5
6255	JUN 08	0736 4.8	41.36S	173.50E	67	2.6	0.1	18	10
6260	JUN 08	1124 29.1	40.98S	175.27E	27	2.5	0.2	15	12
6261	JUN 08	1149 10.1	41.25S	175.33E	28	2.4	0.1	11	9
6262	JUN 08	1206 20.7	41.58S	173.92E	18	2.3	0.2	18	11
6269	JUN 08	1534 37.6	41.07S	175.98E	32	2.4	0.2	13	10
6272	JUN 08	1647 11.6	40.83S	174.75E	15	2.5	0.2	14	12
6278	JUN 08	2307 27.8	41.92S	174.65E	21	2.6	0.2	17	13
6279	JUN 08	2325 11.4	41.09S	174.47E	35	2.1	0.1	9	7
6280	JUN 09	0044 33.5	41.70S	174.51E	30	2.5	0.2	13	10
6282	JUN 09	0213 26.2	41.21S	175.42E	21	2.0	0.1	10	7
6297	JUN 09	1113 9.5	40.52S	175.74E	29	2.2	0.2	11	8
6310	JUN 09	1903 4.6	41.09S	173.88E	60	2.3	0.1	8	5
6320	JUN 10	0114 37.9	41.63S	173.75E	74	2.7	0.1	12	8
6323	JUN 10	0336 1.5	41.26S	175.19E	11	2.0	0.1	8	6
6325	JUN 10	0434 47.6	40.89S	175.81E	31	2.1	0.1	12	9
6332	JUN 10	0931 29.1	40.89S	175.11E	29	2.1	0.1	11	8
6340	JUN 10	1815 11.9	41.01S	174.19E	47	2.5	0.2	16	11
6341	JUN 10	1941 15.1	41.66S	173.79E	71	2.6	0.1	11	9
6347	JUN 10	2318 13.3	40.56S	174.57E	29	2.2	0.1	8	5
6357	JUN 11	0741 34.4	40.59S	174.28E	85	2.3	0.3	8	6
6372	JUN 11	2353 26.8	41.23S	174.31E	69	2.8	0.2	20	14
6373	JUN 12	0151 10.9	41.41S	175.01E	24	2.1	0.1	10	8
6377	JUN 12	0550 39.9	40.87S	176.00E	25	2.6	0.2	16	12
6390	JUN 12	1945 37.1	40.65S	175.49E	28	2.5	0.3	17	11
6391	JUN 12	2212 1.6	40.62S	174.37E	68	2.4	0.1	10	6
6393	JUN 13	0027 3.1	41.13S	174.66E	32	3.1	0.2	27	19
6395	JUN 13	0041 28.2	40.64S	175.85E	26	2.4	0.0	5	3
6396	JUN 13	0046 54.4	41.13S	174.63E	32	2.0	0.1	8	5
6402	JUN 13	0907 38.5	40.72S	174.64E	61	2.6	0.1	9	7
6404	JUN 13	1215 5.6	41.29S	175.19E	25	2.3	0.1	9	7
6408	JUN 13	1759 50.1	41.99S	173.81E	12R	2.3	0.2	9	5
6415	JUN 14	0334 56.6	40.57S	175.92E	27	2.6	0.2	14	8
6421	JUN 14	0626 23.7	41.99S	174.09E	21	2.5	0.2	14	10

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6426	JUN 14	1352 59.1	41.49S	173.52E	80	3.0	0.3	23	14
6428	JUN 14	1420 10.6	40.85S	175.77E	26	2.2	0.3	15	9
6433	JUN 14	1941 44.5	41.22S	173.89E	49	2.6	0.2	12	8
6445	JUN 15	1037 59.0	41.65S	174.06E	5R	2.2	0.3	11	8
6450	JUN 15	1610 18.1	40.95S	175.58E	9	2.4	0.2	12	9
6451	JUN 15	1943 36.1	40.68S	175.81E	30	2.4	0.2	11	7
6454	JUN 15	2239 19.4	40.97S	175.34E	26	2.2	0.2	11	8
6460	JUN 16	0631 1.2	41.65S	174.59E	28	2.2	0.1	7	4
6472	JUN 16	1857 12.4	41.63S	175.27E	39	2.5	0.0	13	9
6473	JUN 16	1913 15.1	41.83S	174.18E	29	2.6	0.2	19	13
6474	JUN 16	2121 29.6	41.72S	174.50E	32	2.2	0.1	10	6
6487	JUN 17	0803 19.5	41.67S	174.16E	5R	2.4	0.3	13	7
6497	JUN 17	2026 41.7	41.83S	174.55E	30	3.0	0.2	22	15
6505	JUN 17	2329 40.1	41.27S	174.84E	26	2.5	0.1	16	11
6508	JUN 18	0255 8.6	40.78S	174.68E	3	2.3	0.2	12	8
6522	JUN 18	1042 3.6	41.40S	174.95E	31	2.3	0.1	11	9
6524	JUN 18	1059 47.5	41.76S	174.44E	25	2.3	0.1	11	9
6532	JUN 18	1343 47.1	41.29S	175.29E	29	2.4	0.1	10	8
6533	JUN 18	1412 8.7	41.02S	173.80E	70	2.5	0.2	9	6
6544	JUN 18	2048 40.8	41.68S	174.28E	12R	3.2	0.2	25	20
6545	JUN 18	2052 48.3	41.71S	174.26E	17	2.9	0.3	20	17
6548	JUN 18	2223 52.2	41.42S	174.31E	22	2.7	0.2	17	13
6549	JUN 18	2227 9.1	41.41S	174.32E	18	2.6	0.2	15	12
6550	JUN 18	2227 25.4	41.36S	174.36E	17	2.3	0.2	11	8
6554	JUN 19	0318 32.3	41.64S	174.28E	5R	2.2	0.2	11	7
6561	JUN 19	0926 30.1	40.61S	174.94E	5R	4.4F	0.2	31	25
6562	JUN 19	0932 8.9	40.59S	174.93E	5	2.2	0.2	10	6
6563	JUN 19	0951 23.7	40.57S	174.90E	5R	2.1	0.2	11	7
6570	JUN 19	1252 56.9	41.73S	174.51E	26	2.4	0.1	8	6
6584	JUN 20	0141 58.5	41.71S	173.81E	11	2.8	0.3	23	18
6598	JUN 20	0945 19.0	41.37S	174.48E	57	2.4	0.1	9	7
6607	JUN 20	1510 33.0	40.80S	175.21E	31	2.0	0.1	11	8
6611	JUN 20	1804 4.7	41.54S	173.65E	73	2.4	0.2	8	6
6614	JUN 20	2113 35.8	40.59S	174.92E	5R	2.3	0.2	11	7
6615	JUN 20	2320 37.2	41.34S	174.78E	24	2.0	0.1	9	7
6616	JUN 20	2352 29.4	41.06S	175.56E	29	2.1	0.2	10	6
6629	JUN 21	1120 16.1	41.42S	175.03E	27	2.2	0.1	14	9
6631	JUN 21	1151 32.4	41.35S	175.13E	28	2.1	0.1	17	11
6834	JUN 22	0217 44.7	41.01S	174.54E	39	2.1	0.0	6	4
6861	JUN 22	0332 26.6	41.71S	174.32E	14	2.5	0.3	18	14
6868	JUN 22	0414 34.5	41.71S	174.34E	14	3.1	0.3	27	21
6892	JUN 22	0657 48.1	41.12S	174.38E	40	2.3	0.3	13	9
6920	JUN 22	1004 7.9	40.88S	174.94E	41	2.0	0.1	10	6
6935	JUN 22	1225 11.3	41.40S	175.27E	47	2.1	0.1	9	7
7018	JUN 22	2310 49.0	41.28S	173.58E	62	2.3	0.2	11	7

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7034	JUN 23	0429 46.8	40.60S	174.30E	52	2.4	0.3	11	6
7036	JUN 23	0522 48.3	41.64S	174.25E	15	3.0	0.2	23	19
7043	JUN 23	0648 38.2	41.62S	174.27E	8	2.9	0.3	28	20
7066	JUN 23	1412 3.9	41.12S	175.49E	23	2.1	0.2	9	6
7075	JUN 23	1719 16.1	40.57S	174.77E	25	2.4	0.0	6	3
7091	JUN 23	1944 27.1	40.53S	174.69E	16	2.9	0.1	11	5
7092	JUN 23	2007 50.5	40.56S	174.50E	74	3.2	0.2	14	7
7103	JUN 24	0037 45.0	40.60S	174.87E	5R	2.2	0.2	11	7
7106	JUN 24	0251 6.0	40.53S	174.71E	19	2.8	0.2	20	15
7117	JUN 24	0617 25.9	41.05S	173.84E	68	2.8	0.2	12	8
7122	JUN 24	0933 19.6	41.17S	173.96E	79	2.0	0.2	8	6
7137	JUN 24	1521 16.8	41.28S	175.19E	23	2.1	0.1	8	5
7139	JUN 24	1801 54.9	41.67S	174.25E	8	2.5	0.2	15	12
7147	JUN 24	2126 52.1	41.11S	175.35E	25	2.7	0.2	18	11
7149	JUN 24	2154 18.0	41.62S	174.27E	7	3.7	0.2	26	21
7157	JUN 25	0107 27.6	41.57S	174.23E	21	2.4	0.3	12	8
7162	JUN 25	0308 52.3	41.60S	174.26E	5R	3.0	0.2	29	19
7181	JUN 25	1356 29.6	41.59S	174.69E	31	2.3	0.1	13	9
7227	JUN 26	0926 44.6	41.39S	173.93E	48	2.3	0.2	8	5
7232	JUN 26	1047 54.3	41.63S	174.27E	9	3.5	0.2	30	22
7234	JUN 26	1058 15.9	40.56S	174.27E	61	2.5	0.2	11	7
7242	JUN 26	1204 45.6	41.66S	174.52E	48	2.4	0.1	12	8
7244	JUN 26	1304 3.6	40.92S	175.15E	30	2.1	0.2	11	8
7250	JUN 26	1532 28.2	41.13S	174.47E	39	2.8	0.2	16	13
7256	JUN 26	1759 27.4	41.71S	173.94E	17	2.3	0.1	9	8
7271	JUN 27	0054 2.8	41.06S	175.45E	8	2.1	0.1	12	8
7273	JUN 27	0102 12.1	41.60S	174.27E	2	2.2	0.2	8	5
7274	JUN 27	0109 29.1	40.62S	174.90E	34	2.0	0.1	9	5
7279	JUN 27	0313 2.5	40.94S	174.74E	56	2.4	0.1	10	6
7291	JUN 27	0645 5.8	41.76S	173.70E	13	2.6	0.2	16	9
7303	JUN 27	1332 47.8	41.89S	174.45E	29	2.9	0.2	23	16
7315	JUN 27	1700 49.5	40.82S	175.08E	29	3.2	0.3	23	18
7324	JUN 27	2057 55.5	40.62S	174.22E	75	2.7	0.2	11	9
7330	JUN 27	2351 22.4	40.93S	175.52E	25	2.1	0.2	13	9
7334	JUN 28	0126 38.0	41.12S	174.48E	36	2.5	0.2	21	14
7338	JUN 28	0250 5.3	40.79S	175.07E	33	2.2	0.1	8	5
7340	JUN 28	0451 26.3	40.52S	175.73E	39	2.4	0.2	7	3
7341	JUN 28	0603 37.3	40.62S	174.73E	39	3.2	0.2	25	18
7376	JUN 28	1846 28.8	41.76S	174.45E	25	2.2	0.1	11	8
7399	JUN 28	1940 46.2	41.34S	173.76E	79	3.4	0.2	28	19
7417	JUN 28	2200 16.9	41.60S	174.33E	11	2.0	0.2	11	8
7514	JUN 29	0916 20.4	41.49S	174.10E	33	2.5	0.3	15	10
7521	JUN 29	1327 1.6	40.87S	175.77E	33	2.5	0.2	16	10
7536	JUN 30	0437 50.5	40.69S	174.41E	76	2.3	0.2	9	6
7538	JUN 30	0617 28.7	40.87S	174.46E	73	2.1	0.0	10	6

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7540	JUN 30	0944 23.3	41.46S	174.55E	30	2.3	0.1	16	12
7545	JUN 30	1250 12.6	40.81S	175.05E	35	2.0	0.1	7	4
7553	JUN 30	1845 22.8	41.39S	175.10E	24	2.5	0.1	14	7
7554	JUN 30	1951 52.2	41.38S	175.10E	23	2.3	0.1	12	9
7557	JUN 30	2258 34.5	40.76S	173.51E	97	3.0	0.3	18	10
7558	JUN 30	2316 48.0	41.76S	173.70E	14	3.1	0.2	31	20
7563	JUL 01	0107 49.7	41.38S	175.10E	23	2.4	0.1	15	10
7568	JUL 01	0317 38.2	41.79S	174.47E	26	2.7	0.2	20	15
7569	JUL 01	0342 39.3	41.37S	175.09E	22	2.3	0.2	13	9
7572	JUL 01	0412 60.0	41.38S	175.10E	22	2.1	0.1	9	7
7592	JUL 01	1628 24.5	41.59S	174.34E	24	2.9	0.2	31	21
7594	JUL 01	1704 58.3	41.59S	174.33E	24	2.7	0.2	26	18
7595	JUL 01	1709 40.6	41.59S	174.34E	24	2.8	0.2	30	20
7596	JUL 01	1712 45.5	41.59S	174.32E	24	2.0	0.2	10	7
7607	JUL 01	2348 20.8	41.80S	175.05E	28	2.5	0.2	13	9
7618	JUL 02	1001 17.5	40.85S	174.74E	15	2.3	0.3	10	5
7623	JUL 02	1424 34.7	40.83S	175.20E	30	2.3	0.1	12	9
7626	JUL 02	1459 21.4	40.84S	175.82E	24	2.3	0.2	15	10
7627	JUL 02	1525 9.9	40.87S	175.81E	24	2.5	0.2	19	12
7628	JUL 02	1543 19.0	40.87S	175.82E	21	2.2	0.2	17	9
7633	JUL 02	2031 32.9	40.62S	174.79E	10	2.9	0.3	20	14
7634	JUL 02	2049 53.5	40.98S	174.75E	35	2.1	0.0	8	5
7655	JUL 03	0947 29.2	40.79S	175.06E	41	2.2	0.2	9	7
7663	JUL 03	1619 44.9	40.88S	175.92E	24	2.5	0.2	12	8
7671	JUL 03	2046 12.6	41.50S	174.18E	35	2.7	0.2	27	18
7683	JUL 04	0516 37.0	41.60S	174.42E	5R	2.7	0.2	23	15
7694	JUL 04	1353 39.7	41.02S	174.80E	30	2.0	0.1	8	6
7698	JUL 04	1916 51.9	41.19S	174.92E	30	2.2	0.0	8	7
7700	JUL 04	1945 31.5	40.80S	174.79E	16	2.4	0.3	10	8
7702	JUL 04	2133 34.2	40.58S	173.78E	94	2.9	0.3	23	12
7706	JUL 04	2354 38.9	40.67S	174.37E	44	2.5	0.2	15	8
7711	JUL 05	0223 17.1	41.28S	175.33E	16	2.0	0.1	10	8
7714	JUL 05	0602 35.0	41.33S	174.40E	16	2.4	0.3	14	11
7716	JUL 05	0704 19.5	40.90S	174.15E	53	2.2	0.1	8	5
7721	JUL 05	1127 26.0	41.73S	173.95E	41	2.3	0.2	8	5
7727	JUL 05	1625 40.4	41.68S	174.59E	27	2.2	0.2	7	5
7730	JUL 05	2101 2.8	41.33S	174.71E	9	2.5	0.2	15	11
7736	JUL 06	0559 44.7	41.42S	174.11E	5R	2.3	0.3	15	11
7742	JUL 06	1120 33.0	40.76S	174.81E	25	2.3	0.3	11	6
7744	JUL 06	1150 41.9	41.78S	174.36E	28	2.6	0.2	21	16
7762	JUL 07	0113 0.1	41.90S	174.34E	21	2.4	0.1	9	7
7780	JUL 07	1437 39.1	40.64S	173.50E	156	3.2	0.3	20	14
7781	JUL 07	1636 19.2	40.77S	175.34E	30	2.1	0.2	10	7
7782	JUL 07	1936 51.4	41.14S	174.65E	34	2.4	0.1	15	10
7784	JUL 07	2038 55.6	41.24S	175.32E	23	2.4	0.1	11	8

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7795	JUL 08	1111 37.8	41.29S	174.90E	21	2.2	0.1	13	9
7803	JUL 08	1712 30.6	40.96S	175.25E	25	2.2	0.1	9	7
7804	JUL 08	1715 47.5	40.96S	175.24E	25	2.2	0.2	11	8
7806	JUL 08	2231 30.0	40.90S	175.70E	29	2.2	0.2	13	9
7817	JUL 09	0435 55.7	40.89S	174.75E	13	2.2	0.1	7	4
7835	JUL 10	0338 53.4	40.87S	174.73E	18	2.0	0.1	10	6
7846	JUL 10	1053 13.7	41.13S	174.47E	38	2.6	0.2	19	15
7849	JUL 10	1325 13.6	41.19S	174.14E	50	2.4	0.2	12	8
7859	JUL 10	2042 31.5	40.69S	174.96E	38	2.2	0.1	11	7
7876	JUL 11	0738 45.3	40.83S	175.20E	30	2.2	0.1	13	9
7878	JUL 11	1029 48.2	40.76S	175.08E	55	2.3	0.1	10	6
7891	JUL 11	1935 39.0	40.93S	175.06E	30	2.4	0.2	17	10
7892	JUL 11	2004 26.2	40.94S	175.41E	30	2.0	0.1	12	7
7900	JUL 12	0431 54.4	40.64S	174.35E	48	2.3	0.1	7	5
7926	JUL 12	2020 14.3	40.96S	175.35E	12	2.1	0.2	11	7
7927	JUL 12	2332 6.0	41.18S	173.90E	55	2.2	0.2	14	8
7934	JUL 13	0420 9.5	41.41S	175.00E	27	3.1	0.1	24	15
7935	JUL 13	0422 54.6	41.40S	175.00E	26	2.4	0.2	19	12
7937	JUL 13	0513 56.6	41.31S	174.43E	57	2.0	0.0	6	3
7938	JUL 13	0519 14.0	41.60S	174.62E	29	2.1	0.0	6	5
7939	JUL 13	0525 5.5	40.59S	174.01E	71	3.1	0.3	22	16
7950	JUL 13	0944 53.1	40.88S	174.75E	13	2.0	0.1	7	4
7953	JUL 13	1031 0.7	40.84S	174.70E	54	2.3	0.1	10	5
7964	JUL 13	1901 7.4	40.73S	175.14E	31	2.1	0.1	10	7
7984	JUL 14	1658 15.1	41.21S	175.61E	17	2.2	0.1	11	8
7985	JUL 14	1705 40.0	41.62S	174.36E	2	2.7	0.2	17	14
7986	JUL 14	1820 45.3	41.55S	174.49E	14	3.3	0.1	26	18
7989	JUL 14	2257 41.7	41.32S	174.41E	14	3.4	0.4	23	17
7990	JUL 15	0136 59.7	40.55S	173.67E	103	2.8	0.3	12	7
7991	JUL 15	0216 9.3	41.11S	174.65E	31	2.4	0.2	12	8
7994	JUL 15	0333 12.5	41.39S	174.10E	5R	2.8	0.3	20	15
7998	JUL 15	0904 36.5	40.90S	174.99E	48	2.1	0.1	11	8
8003	JUL 15	1303 3.5	41.08S	174.65E	33	2.2	0.1	15	11
8005	JUL 15	1340 33.3	41.03S	175.22E	35	2.4	0.1	12	8
8029	JUL 16	1736 51.3	40.71S	175.83E	30	2.2	0.1	12	8
8030	JUL 16	1835 49.9	41.13S	175.36E	27	2.1	0.1	11	8
8032	JUL 16	1919 28.4	40.65S	174.91E	33	2.0	0.1	9	7
8045	JUL 17	0805 56.3	41.57S	174.52E	15	2.0	0.2	9	7
8049	JUL 17	1239 31.8	41.20S	174.60E	37	2.1	0.1	12	8
8051	JUL 17	1353 34.5	41.24S	175.55E	18	2.0	0.1	12	7
8059	JUL 17	1918 9.1	40.91S	175.81E	27	2.3	0.3	13	9
8063	JUL 18	0018 2.6	41.28S	175.30E	29	2.0	0.2	13	9
8067	JUL 18	0358 43.9	40.68S	174.79E	35	2.3	0.1	11	7
8069	JUL 18	0528 23.2	40.64S	174.43E	75	2.3	0.2	10	6
8071	JUL 18	1005 1.4	40.91S	175.43E	18	2.3	0.2	11	7

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8073	JUL 18	1012 18.2	40.90S	175.43E	21	2.4	0.1	12	9
8076	JUL 18	1106 51.9	41.10S	175.10E	9	2.0	0.2	10	6
8085	JUL 18	1939 1.8	40.59S	174.50E	46	3.0	0.3	23	13
8088	JUL 18	2249 30.1	40.59S	174.80E	41	2.4	0.2	12	7
8099	JUL 19	0747 24.9	41.74S	174.27E	14	2.4	0.2	9	7
8102	JUL 19	0928 33.1	40.58S	174.70E	69	2.4	0.2	8	4
8110	JUL 20	0158 6.2	40.85S	174.98E	37	2.1	0.1	7	5
8113	JUL 20	0824 37.9	41.08S	175.52E	29	2.1	0.2	11	7
8114	JUL 20	0912 44.8	40.67S	175.49E	27	2.4	0.3	14	10
8121	JUL 20	1254 23.3	41.45S	175.24E	27	2.8	0.2	17	11
8122	JUL 20	1313 10.2	41.35S	174.30E	37	2.3	0.2	10	8
8123	JUL 20	1355 56.5	40.81S	175.20E	32	2.1	0.1	8	6
8125	JUL 20	1618 42.5	41.01S	175.24E	29	2.0	0.1	8	6
8136	JUL 20	2253 48.2	41.00S	175.36E	26	2.1	0.2	10	6
8138	JUL 21	0315 21.8	41.43S	173.82E	55	2.8	0.2	18	14
8140	JUL 21	0327 0.2	40.81S	175.70E	25	2.1	0.1	13	9
8151	JUL 22	0851 43.7	40.89S	175.77E	35	2.5	0.2	9	5
8160	JUL 22	1859 28.2	41.33S	173.87E	58	2.8	0.2	11	7
8163	JUL 23	0200 37.8	41.93S	174.19E	20	2.4	0.3	10	7
8169	JUL 23	0536 23.1	40.96S	174.04E	61	2.6	0.1	8	6
8170	JUL 23	0749 31.7	40.67S	174.22E	50	2.1	0.2	8	6
8172	JUL 23	1029 13.6	41.86S	174.20E	33	2.6	0.2	12	9
8175	JUL 23	1111 22.7	40.75S	175.79E	29	2.3	0.1	8	5
8177	JUL 23	1911 58.3	41.06S	174.60E	34	2.3	0.0	8	6
8178	JUL 23	2355 52.1	40.74S	174.76E	41	2.3	0.1	8	6
8186	JUL 24	1116 11.6	41.07S	174.70E	32	2.2	0.1	10	6
8188	JUL 24	1716 52.8	41.28S	175.29E	29	2.2	0.1	8	6
8192	JUL 24	2031 31.6	40.55S	174.47E	0R	2.4	0.1	9	7
8195	JUL 24	2136 18.5	41.19S	174.71E	34	2.1	0.1	11	8
8204	JUL 25	0654 39.9	41.41S	175.00E	24	2.1	0.1	14	9
8208	JUL 25	1049 43.0	40.78S	175.23E	30	2.2	0.2	10	8
8212	JUL 25	1330 41.1	40.61S	175.48E	27	2.4	0.2	11	6
8214	JUL 25	1600 40.3	40.91S	175.82E	30	2.7	0.2	10	7
8216	JUL 25	1914 32.0	41.50S	175.68E	28	2.5	0.2	6	4
8218	JUL 26	0033 46.3	40.92S	175.71E	23	2.7	0.2	6	4
8223	JUL 26	0416 18.6	41.62S	175.63E	15	2.1	0.1	6	4
8225	JUL 26	0719 0.9	41.01S	175.44E	35	2.1	0.2	8	6
8231	JUL 26	0910 50.1	40.57S	174.64E	26	2.2	0.2	7	6
8232	JUL 26	0922 23.9	41.16S	175.49E	32	4.4F	0.2	26	21
8236	JUL 26	1037 54.8	41.08S	175.19E	26	2.1	0.1	7	6
8241	JUL 26	1308 55.8	41.03S	174.74E	33	2.7	0.1	6	4
8242	JUL 26	1323 8.6	41.13S	175.45E	28	2.4	0.1	7	5
8250	JUL 27	0433 56.2	40.77S	175.05E	32	2.3	0.1	10	8
8251	JUL 27	0448 53.5	41.13S	175.45E	28	2.0	0.1	11	7
8257	JUL 27	1556 28.7	41.60S	173.69E	45	2.6	0.2	14	10

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8258	JUL 27	1619 47.8	41.63S	174.37E	20	2.1	0.2	7	5
8259	JUL 27	1724 52.8	41.13S	175.44E	28	2.6	0.1	14	9
8264	JUL 28	0512 31.3	40.86S	173.83E	146	2.7	0.1	7	4
8281	JUL 29	0408 11.7	41.54S	173.77E	45	2.7	0.3	19	12
8292	JUL 29	1553 34.4	40.89S	174.91E	3	2.0	0.1	9	6
8300	JUL 30	0028 31.5	40.59S	175.67E	26	2.7	0.2	16	10
8307	JUL 30	1124 17.2	41.06S	175.40E	25	2.5	0.2	13	9
8308	JUL 30	1253 28.6	40.89S	175.14E	35	2.1	0.1	6	5
8312	JUL 31	0128 23.5	40.61S	173.82E	87	4.0	0.3	37	25
8313	JUL 31	0157 46.0	41.30S	175.05E	23	2.0	0.0	9	6
8320	JUL 31	0515 59.6	41.03S	174.84E	29	2.0	0.1	8	6
8332	JUL 31	1447 30.8	41.45S	174.57E	29	2.1	0.1	9	7
8335	JUL 31	2221 18.1	41.41S	175.01E	26	2.0	0.1	10	7
8337	AUG 01	0005 12.9	40.99S	174.71E	32	2.6	0.1	12	9
8338	AUG 01	0036 15.6	40.96S	173.72E	93	2.8	0.2	18	10
8339	AUG 01	0134 27.0	40.97S	175.46E	22	3.2	0.2	23	16
8340	AUG 01	0150 55.0	40.97S	175.44E	27	2.1	0.2	9	6
8342	AUG 01	0231 12.2	40.97S	175.46E	25	3.6	0.2	27	19
8348	AUG 01	0716 54.6	40.96S	175.45E	23	2.6	0.2	18	12
8349	AUG 01	0718 27.5	41.01S	174.19E	47	2.1	0.2	9	7
8350	AUG 01	0733 50.8	40.96S	175.45E	27	2.4	0.2	13	9
8352	AUG 01	0807 51.5	41.23S	174.65E	33	2.0	0.1	10	8
8354	AUG 01	0823 9.3	40.99S	175.44E	28	2.1	0.1	9	7
8355	AUG 01	0852 36.7	40.97S	175.43E	18	2.4	0.1	14	10
8360	AUG 01	0939 21.7	40.97S	175.43E	27	2.2	0.3	7	5
8362	AUG 01	1033 53.6	40.89S	175.75E	27	2.4	0.3	13	9
8380	AUG 02	0214 53.1	41.67S	174.33E	5R	2.3	0.2	12	8
8382	AUG 02	0648 57.0	40.80S	175.26E	30	2.2	0.1	10	6
8388	AUG 02	1348 4.8	41.14S	175.44E	25	2.0	0.2	10	6
8398	AUG 02	2203 37.0	40.97S	175.36E	9	2.6	0.2	15	10
8399	AUG 03	0009 7.8	41.14S	174.81E	30	2.3	0.0	10	7
8400	AUG 03	0140 20.3	41.40S	174.37E	35	2.4	0.2	10	8
8408	AUG 03	1009 34.4	40.85S	175.16E	25	2.0	0.2	7	6
8409	AUG 03	1038 55.8	40.63S	174.28E	56	2.2	0.2	7	5
8413	AUG 03	1350 48.3	40.99S	174.48E	44	2.7	0.1	14	12
8414	AUG 03	1353 29.4	41.50S	175.38E	19	3.0	0.3	19	11
8419	AUG 03	1958 2.8	41.30S	175.50E	24	2.6	0.1	12	8
8428	AUG 04	0558 45.2	41.94S	174.03E	24	2.5	0.3	16	11
8462	AUG 06	0136 15.1	41.35S	174.67E	53	2.1	0.1	7	5
8463	AUG 06	0152 43.1	41.25S	175.12E	23	2.1	0.1	10	8
8468	AUG 06	0746 31.6	41.69S	174.14E	22	2.3	0.3	10	8
8471	AUG 06	0841 34.9	41.01S	175.38E	27	2.9	0.3	20	15
8473	AUG 06	0851 1.4	41.17S	174.79E	29	2.1	0.0	9	6
8474	AUG 06	0941 0.6	41.37S	174.99E	27	2.3	0.1	11	9
8484	AUG 06	1730 44.6	41.41S	175.29E	15	2.5	0.2	17	10

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8485	AUG 06	1742 25.1	41.64S	174.32E	12R	2.4	0.2	15	11
8487	AUG 06	1814 40.0	41.17S	174.61E	56	2.1	0.1	10	8
8491	AUG 06	2206 27.6	40.53S	174.14E	88	2.8	0.2	13	7
8494	AUG 07	0657 54.4	40.68S	175.86E	37	2.6	0.1	10	4
8495	AUG 07	0919 42.3	41.69S	174.31E	5R	2.8	0.2	23	18
8496	AUG 07	0928 47.1	41.69S	174.31E	7	2.9	0.2	21	16
8506	AUG 08	0607 9.2	40.53S	174.23E	30	2.5	0.1	6	5
8507	AUG 08	0631 4.2	41.05S	174.12E	72	2.7	0.1	14	11
8522	AUG 09	0536 24.9	40.53S	174.69E	58	3.1	0.2	18	11
8532	AUG 09	1459 41.1	41.70S	174.29E	5R	2.4	0.4	15	12
8540	AUG 10	0043 4.4	40.78S	175.75E	30	2.4	0.2	16	11
8546	AUG 10	0512 16.0	40.86S	175.03E	39	2.7	0.1	15	9
8554	AUG 10	1452 8.5	41.29S	175.30E	29	2.1	0.2	10	8
8555	AUG 10	1654 40.0	41.35S	174.89E	26	2.0	0.1	6	4
8559	AUG 10	2327 22.4	40.85S	175.77E	28	2.2	0.2	9	5
8561	AUG 11	0314 29.6	40.50S	174.48E	5R	2.3	0.2	8	6
8572	AUG 11	0828 0.8	40.89S	175.77E	29	2.3	0.1	19	12
8573	AUG 11	0946 16.3	41.06S	175.33E	23	2.0	0.1	12	9
8583	AUG 11	1638 52.8	41.54S	174.21E	5R	2.3	0.3	10	7
8590	AUG 12	0336 49.0	41.16S	174.66E	30	2.3	0.1	9	7
8595	AUG 12	0936 52.7	41.64S	175.33E	19	2.3	0.2	8	5
8603	AUG 12	1628 0.9	41.01S	175.35E	28	2.2	0.2	12	7
8606	AUG 12	1943 58.3	41.16S	174.62E	32	2.1	0.0	8	6
8618	AUG 13	0250 25.0	41.19S	173.88E	59	2.5	0.2	17	9
8623	AUG 13	0717 27.6	41.41S	174.11E	9	2.4	0.3	18	14
8633	AUG 13	1931 3.1	41.28S	174.67E	48	2.4	0.1	9	7
8636	AUG 14	0030 7.4	40.74S	174.75E	43	2.0	0.1	9	6
8637	AUG 14	0052 46.5	40.56S	175.07E	33	2.2	0.2	9	7
8642	AUG 14	0649 56.5	41.67S	173.88E	39	2.7	0.3	19	14
8644	AUG 14	0811 9.6	40.57S	173.77E	111	2.9	0.3	13	9
8647	AUG 14	0931 1.0	41.07S	174.13E	50	2.8	0.1	8	7
8651	AUG 14	1658 13.2	41.81S	174.87E	32	2.6	0.2	18	15
8653	AUG 15	0000 2.2	40.81S	174.98E	33	2.7	0.2	20	14
8656	AUG 15	0608 47.4	40.92S	174.93E	32	2.5	0.2	12	9
8662	AUG 15	0912 20.5	41.41S	174.94E	28	2.1	0.1	12	8
8669	AUG 15	1624 23.2	40.66S	174.59E	33	2.0	0.3	8	5
8672	AUG 15	1712 13.7	41.44S	174.52E	55	3.0	0.1	20	14
8673	AUG 15	1856 34.2	40.95S	174.84E	33	2.3	0.1	16	10
8682	AUG 16	0231 47.0	40.72S	175.40E	29	2.2	0.1	13	8
8721	AUG 17	1411 10.3	40.84S	174.56E	53	2.5	0.1	16	9
8725	AUG 17	1645 12.7	41.64S	175.31E	1	2.2	0.1	13	8
8738	AUG 18	0709 21.6	41.58S	174.12E	48	2.6	0.2	9	5
8754	AUG 18	1452 37.5	41.27S	175.25E	29	3.9F	0.2	32	25
8755	AUG 18	1529 0.2	41.27S	175.23E	28	2.6	0.2	17	11
8763	AUG 18	1952 29.4	41.27S	175.23E	28	2.4	0.1	18	11

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8778	AUG 19	0638 9.8	40.52S	174.90E	32	2.2	0.1	9	6
8788	AUG 19	1544 52.2	41.70S	174.27E	15	2.0	0.1	11	8
8790	AUG 19	1914 0.8	41.67S	174.56E	33	2.9	0.1	21	13
8791	AUG 19	1924 40.8	41.27S	175.23E	26	2.3	0.1	9	5
8792	AUG 19	1930 17.8	41.25S	174.16E	41	2.9	0.2	25	14
8795	AUG 19	2333 7.9	41.45S	174.98E	22	2.0	0.1	10	8
8807	AUG 20	0520 41.5	40.80S	175.59E	21	2.2	0.2	16	10
8811	AUG 20	1128 17.3	41.26S	173.52E	88	2.7	0.2	19	11
8814	AUG 20	1559 9.1	41.72S	174.38E	29	2.5	0.2	19	13
8828	AUG 21	0634 12.1	41.38S	174.90E	17	2.0	0.2	14	9
8830	AUG 21	1009 55.0	41.16S	174.96E	31	2.0	0.1	11	7
8833	AUG 21	1156 0.1	41.73S	174.52E	33	2.2	0.1	9	6
8836	AUG 21	1603 33.4	41.84S	173.71E	12R	2.8	0.2	10	6
8843	AUG 22	0006 0.7	40.76S	175.97E	32	2.1	0.1	11	4
8846	AUG 22	0209 7.5	41.55S	174.01E	35	2.8	0.3	20	13
8854	AUG 22	0729 56.5	40.77S	173.94E	90	3.2	0.2	27	15
8861	AUG 22	1156 54.1	40.62S	175.52E	61	3.0	0.2	21	13
8863	AUG 22	1410 44.2	41.35S	174.62E	22	2.1	0.1	8	5
8868	AUG 22	1556 10.7	40.83S	174.55E	28	2.2	0.2	12	7
8873	AUG 23	0330 44.4	40.71S	175.35E	30	2.4	0.2	19	10
8874	AUG 23	0331 30.0	41.07S	175.40E	25	2.1	0.2	14	9
8875	AUG 23	0426 40.3	41.30S	174.87E	22	2.1	0.1	14	10
8876	AUG 23	0451 50.1	40.62S	175.49E	31	2.1	0.1	12	6
8879	AUG 23	0831 19.4	40.53S	173.81E	95	2.6	0.2	13	7
8880	AUG 23	0910 46.4	41.13S	175.34E	23	2.5	0.1	19	12
8882	AUG 23	0952 25.2	41.75S	174.54E	30	2.5	0.2	13	10
8885	AUG 23	1055 48.4	41.57S	175.24E	21	2.1	0.2	17	11
8917	AUG 24	1023 8.7	40.88S	174.71E	17	2.1	0.2	10	7
8920	AUG 24	1203 9.9	41.01S	175.48E	22	2.3	0.2	15	11
8923	AUG 24	1336 7.8	41.42S	174.95E	29	2.9	0.2	22	15
8927	AUG 24	1615 21.5	40.61S	175.50E	30	2.2	0.2	8	6
8929	AUG 24	1642 23.2	41.01S	175.48E	23	2.0	0.2	13	9
8932	AUG 24	1927 36.0	41.70S	174.27E	17	2.3	0.2	12	10
8933	AUG 24	2048 24.4	40.67S	173.66E	127	2.6	0.1	10	6
8935	AUG 24	2050 48.8	40.86S	175.27E	29	3.1	0.3	27	19
8936	AUG 24	2117 9.3	40.99S	174.35E	35	2.3	0.2	14	10
8945	AUG 25	0452 43.1	41.04S	175.56E	26	2.2	0.1	13	9
8948	AUG 25	0905 19.1	40.80S	174.58E	28	2.3	0.2	11	6
8965	AUG 25	1614 30.0	41.08S	175.37E	26	2.1	0.2	6	5
8966	AUG 25	1617 47.3	40.52S	175.80E	30	2.6	0.3	14	10
8969	AUG 25	1831 32.3	41.33S	175.36E	13	2.1	0.1	13	9
8970	AUG 25	1832 0.9	41.34S	175.36E	14	2.2	0.1	14	10
8979	AUG 26	0529 45.3	40.86S	175.17E	31	2.5	0.3	16	11
8983	AUG 26	0628 4.5	40.75S	175.72E	24	2.4	0.2	21	12
8985	AUG 26	0706 17.6	41.21S	173.59E	86	3.1	0.2	24	13

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8987	AUG 26	1002 5.9	40.95S	175.95E	29	2.5	0.2	14	8
8988	AUG 26	1217 28.4	40.69S	174.56E	33	2.6	0.1	12	7
8989	AUG 26	1316 58.5	40.89S	175.47E	25	2.3	0.1	13	9
8990	AUG 26	1355 11.2	40.89S	175.49E	29	3.3	0.2	18	15
8992	AUG 26	1749 21.2	41.10S	174.64E	31	2.5	0.1	11	7
9008	AUG 27	0755 36.4	41.54S	174.54E	17	2.8	0.2	21	16
9010	AUG 27	0952 25.8	40.89S	175.71E	27	3.1	0.2	24	19
9012	AUG 27	1210 18.2	41.02S	173.67E	76	2.6	0.2	10	8
9014	AUG 27	1256 40.1	40.96S	175.23E	18	2.1	0.3	12	8
9018	AUG 27	1645 29.0	41.24S	174.58E	54	2.3	0.1	9	7
9022	AUG 27	1922 5.4	40.89S	173.75E	85	3.2	0.2	19	11
9028	AUG 28	0152 6.1	41.73S	174.29E	5R	2.3	0.3	10	7
9040	AUG 28	1227 0.5	40.92S	174.95E	34	2.5	0.2	14	9
9043	AUG 28	1517 19.6	41.32S	174.66E	29	2.1	0.2	10	7
9050	AUG 28	1942 58.3	40.88S	175.70E	28	2.1	0.1	14	8
9060	AUG 28	2242 35.2	41.21S	173.85E	63	2.6	0.2	16	8
9067	AUG 29	0133 41.7	41.13S	174.12E	50	2.1	0.1	7	4
9069	AUG 29	0250 18.4	40.54S	174.21E	61	2.5	0.2	8	5
9075	AUG 29	0602 47.9	40.96S	175.24E	34	2.2	0.2	7	5
9079	AUG 29	0837 50.8	41.17S	175.29E	31	2.4	0.1	14	9
9095	AUG 29	2238 47.3	41.47S	174.46E	17	3.2	0.2	27	21
9101	AUG 30	0428 55.1	41.47S	174.46E	20	2.4	0.2	20	13
9108	AUG 30	1322 21.5	41.46S	174.22E	17	2.3	0.2	16	10
9110	AUG 30	1701 39.5	40.54S	175.72E	32	2.2	0.1	10	4
9120	AUG 31	0148 29.0	41.58S	174.35E	25	3.1	0.2	23	18
9129	AUG 31	1142 45.4	41.50S	175.62E	28	2.6	0.1	12	8
9131	AUG 31	1509 46.9	41.22S	174.64E	59	2.4	0.0	7	4
9144	SEP 01	0744 16.9	40.70S	174.58E	69	2.4	0.2	15	9
9147	SEP 01	1103 18.2	40.86S	174.61E	54	2.4	0.1	14	9
9163	SEP 02	0155 9.3	41.28S	174.97E	25	2.6	0.1	15	10
9169	SEP 02	1236 6.7	41.60S	175.62E	15	2.2	0.1	10	7
9170	SEP 02	1254 40.5	40.83S	174.52E	64	2.3	0.0	5	4
9183	SEP 03	0528 36.8	41.11S	174.95E	28	2.0	0.1	7	6
9187	SEP 03	0620 24.0	40.57S	175.28E	31	2.3	0.1	13	9
9196	SEP 03	1051 27.8	40.73S	174.16E	76	3.3	0.2	33	23
9198	SEP 03	1250 37.4	41.39S	174.63E	22	2.0	0.2	12	7
9207	SEP 03	2106 43.0	41.60S	174.67E	29	2.1	0.2	10	7
9218	SEP 04	0314 12.6	40.56S	175.94E	28	2.3	0.2	16	9
9224	SEP 04	0913 5.6	40.71S	174.45E	73	3.1	0.2	26	18
9229	SEP 04	1240 53.3	41.15S	174.45E	33	2.0	0.1	9	6
9231	SEP 04	1414 34.6	41.11S	174.11E	50	2.2	0.1	14	10
9233	SEP 04	1612 9.5	41.51S	174.94E	28	2.0	0.1	11	8
9234	SEP 04	1748 54.2	40.55S	174.21E	89	2.1	0.1	8	6
9237	SEP 04	1828 53.1	41.36S	174.63E	18	2.1	0.2	13	10
9241	SEP 04	2306 41.2	41.58S	175.05E	29	2.2	0.1	15	10

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
9242	SEP 05	0030 15.4	40.61S	174.06E	89	2.9	0.3	17	9
9247	SEP 05	0451 23.9	41.91S	174.23E	17	2.4	0.2	9	7
9249	SEP 05	0455 40.0	41.86S	174.33E	19	2.5	0.3	11	9
9252	SEP 05	0931 40.9	41.85S	174.36E	5R	2.6	0.2	12	10
9253	SEP 05	0936 20.8	40.56S	175.49E	33R	2.1	0.3	8	7
9264	SEP 05	2115 21.2	40.98S	175.42E	22	2.1	0.2	8	6
9265	SEP 05	2314 45.5	41.50S	174.52E	21	2.2	0.2	11	9
9276	SEP 06	1103 30.0	41.74S	174.99E	33R	2.1	0.1	6	4
9279	SEP 06	1202 26.2	41.12S	174.39E	64	2.2	0.1	7	5
9284	SEP 06	1540 36.0	40.79S	175.67E	31	2.3	0.2	17	9
9301	SEP 07	0809 40.0	40.57S	173.56E	121	3.3	0.2	28	17
9305	SEP 07	1051 8.3	40.77S	174.73E	42	3.6	0.2	32	21
9310	SEP 07	1408 57.2	41.63S	174.65E	27	2.3	0.2	13	11
9323	SEP 07	2133 12.4	41.44S	174.98E	27	2.4	0.1	12	10
9324	SEP 07	2357 23.1	41.06S	175.04E	33	2.2	0.2	12	8
9327	SEP 08	0107 42.9	41.26S	175.19E	16	2.0	0.2	13	11
9335	SEP 08	0517 21.9	40.99S	174.81E	63	2.2	0.2	9	7
9337	SEP 08	0529 14.5	40.88S	175.57E	29	2.5	0.1	23	15
9342	SEP 08	1313 57.2	41.78S	174.36E	28	2.3	0.2	11	9
9345	SEP 08	1616 53.9	41.10S	174.85E	27	2.1	0.1	12	8
9350	SEP 08	1850 37.4	41.10S	174.85E	27	2.1	0.1	8	6
9351	SEP 08	1900 45.7	41.04S	174.71E	58	2.1	0.1	8	5
9360	SEP 09	0751 40.6	41.59S	174.69E	31	2.1	0.3	14	11
9365	SEP 09	1547 5.0	40.54S	174.44E	32	2.1	0.1	6	4
9370	SEP 09	1724 8.3	40.80S	173.61E	92	2.7	0.3	16	10
9372	SEP 09	1808 55.4	40.99S	175.62E	28	2.2	0.1	14	8
9379	SEP 10	0011 17.2	41.27S	174.99E	23	2.2	0.1	10	8
9381	SEP 10	0223 51.8	41.32S	174.34E	57	2.5	0.1	15	10
9384	SEP 10	0752 13.8	41.53S	175.35E	21	2.5	0.3	16	12
9396	SEP 10	1918 15.1	40.86S	174.74E	14	2.2	0.3	9	6
9407	SEP 11	0733 8.0	41.03S	174.67E	33	2.3	0.1	14	10
9412	SEP 11	0947 8.6	41.16S	174.48E	40	3.0	0.2	28	17
9414	SEP 11	1229 59.3	40.99S	175.44E	26	2.3	0.1	9	6
9416	SEP 11	1529 35.3	41.47S	174.91E	28	2.4	0.1	14	10
9417	SEP 11	1639 31.6	40.96S	175.44E	25	2.5	0.2	18	12
9420	SEP 11	1850 31.9	40.97S	175.45E	22	3.1	0.3	28	19
9421	SEP 11	1851 46.0	40.96S	175.44E	25	2.4	0.1	18	12
9424	SEP 11	2048 22.3	40.52S	173.90E	85	2.8	0.2	16	9
9431	SEP 12	0151 28.5	40.96S	175.42E	21	2.1	0.2	14	9
9435	SEP 12	0350 8.3	40.50S	174.78E	5R	2.2	0.1	9	6
9442	SEP 12	0956 22.6	41.28S	175.27E	23	2.5	0.1	15	11
9443	SEP 12	0956 34.3	41.30S	175.28E	28	2.4	0.1	13	9
9445	SEP 12	1116 24.7	41.50S	173.51E	60	2.7	0.3	25	15
9450	SEP 12	1326 36.8	40.97S	175.44E	24	2.8	0.2	22	17
9451	SEP 12	1345 13.4	41.61S	174.36E	56	2.1	0.1	9	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
9453	SEP 12	1427 23.1	41.28S	174.96E	26	2.4	0.1	13	8
9454	SEP 12	1427 31.1	40.96S	175.46E	22	2.3	0.2	11	7
9456	SEP 12	1459 34.9	40.97S	175.44E	25	2.7	0.1	19	12
9459	SEP 12	1720 52.6	40.95S	174.90E	31	2.2	0.1	20	11
9461	SEP 12	1920 0.2	40.70S	173.99E	93	2.3	0.2	11	6
9465	SEP 13	0032 28.9	41.59S	174.86E	29	2.3	0.1	10	8
9467	SEP 13	0221 3.9	41.27S	174.84E	24	2.2	0.1	13	9
9469	SEP 13	0556 32.2	41.10S	173.97E	58	2.2	0.0	7	5
9472	SEP 13	0708 34.5	41.16S	173.67E	45	2.0	0.1	8	6
9474	SEP 13	1029 27.7	40.80S	173.97E	64	2.3	0.1	12	7
9484	SEP 13	2209 20.2	41.54S	174.50E	19	2.1	0.1	7	5
9488	SEP 14	0111 11.3	41.10S	175.52E	36	2.3	0.1	13	9
9492	SEP 14	0608 6.0	41.43S	174.51E	24	2.1	0.3	10	8
9505	SEP 14	1830 29.8	40.51S	174.16E	78	2.9	0.2	27	17
9509	SEP 14	2342 7.0	41.15S	174.64E	32	2.6	0.2	19	13
9526	SEP 15	1917 51.4	40.88S	175.01E	37	2.0	0.1	9	7
9528	SEP 15	2030 3.0	41.15S	175.12E	27	2.0	0.2	12	8
9529	SEP 15	2156 22.9	41.13S	175.32E	28	2.2	0.1	13	9
9532	SEP 16	0240 46.7	41.29S	175.22E	28	2.4	0.2	14	10
9537	SEP 16	0552 30.7	40.97S	174.62E	59	3.0	0.1	19	13
9540	SEP 16	1125 36.7	41.53S	174.16E	35	2.3	0.2	11	7
9543	SEP 16	1632 2.0	41.96S	174.36E	29	2.3	0.1	7	4
9562	SEP 17	0508 2.5	41.27S	175.00E	24	2.9	0.1	19	14
9563	SEP 17	0534 9.8	41.28S	175.00E	24	2.1	0.1	8	6
9567	SEP 17	0929 0.8	41.49S	174.46E	54	2.6	0.1	14	11
9575	SEP 17	1252 37.4	41.06S	174.70E	34	2.3	0.2	13	9
9577	SEP 17	1328 40.7	40.56S	175.10E	42	3.0	0.3	22	17
9581	SEP 17	1428 30.8	41.25S	175.33E	27	2.0	0.2	11	8
9584	SEP 17	1818 17.0	41.68S	174.86E	33	2.4	0.1	11	9
9585	SEP 17	2134 32.3	41.30S	175.00E	24	2.2	0.1	8	6
9586	SEP 18	0019 23.5	41.35S	175.14E	28	2.2	0.1	11	8
9587	SEP 18	0042 54.8	40.96S	175.27E	31	2.0	0.2	11	7
9594	SEP 18	0646 24.6	40.98S	175.68E	30	2.1	0.2	9	7
9600	SEP 18	1250 27.5	41.37S	174.85E	34	3.0	0.2	20	16
9601	SEP 18	1346 5.3	41.01S	173.54E	130	2.8	0.1	12	8
9602	SEP 18	1416 15.8	40.86S	175.17E	28	2.1	0.2	15	10
9611	SEP 18	1758 23.2	41.17S	173.67E	86	2.7	0.3	16	10
9613	SEP 18	1848 23.3	41.71S	174.49E	36	2.0	0.1	5	3
9620	SEP 19	0314 27.0	40.85S	174.30E	23	2.5	0.2	17	9
9624	SEP 19	0527 47.2	40.70S	174.40E	55	2.5	0.2	16	8
9625	SEP 19	0535 16.0	40.50S	174.12E	72	3.2	0.2	28	20
9630	SEP 19	0852 11.1	41.36S	174.84E	32	2.4	0.1	16	10
9633	SEP 19	1036 8.4	41.12S	175.43E	27	2.0	0.1	13	9
9635	SEP 19	1200 50.9	40.65S	174.29E	58	3.0	0.2	13	8
9640	SEP 19	1527 37.3	40.95S	174.63E	35	2.3	0.2	13	9

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
9655	SEP 20	0323 11.9	41.42S	174.58E	19	2.2	0.2	17	12
9656	SEP 20	0334 56.9	40.56S	174.10E	59	2.1	0.1	9	6
9680	SEP 20	2117 0.6	40.74S	174.36E	49	2.1	0.1	8	5
9683	SEP 21	0005 34.3	41.16S	175.52E	21	2.8	0.2	24	15
9698	SEP 21	1630 58.0	40.57S	174.46E	29	2.3	0.2	12	8
9701	SEP 21	1749 25.8	40.51S	175.92E	36	2.1	0.1	11	4
9714	SEP 22	0352 33.1	40.88S	174.11E	52	2.6	0.2	11	7
9731	SEP 22	1927 25.7	40.74S	174.74E	41	2.0	0.0	7	4
9735	SEP 22	2236 15.7	40.58S	174.14E	30	2.3	0.1	7	5
9736	SEP 22	2239 28.8	41.29S	174.39E	34	2.6	0.2	12	9
9743	SEP 23	0227 40.6	41.09S	175.43E	30	2.1	0.2	8	6
9746	SEP 23	0306 38.8	40.58S	175.03E	32	2.4	0.2	13	8
9750	SEP 23	0442 53.6	41.10S	174.15E	54	2.3	0.1	8	5
9752	SEP 23	0642 30.7	41.37S	175.11E	28	2.7	0.1	17	12
9753	SEP 23	0644 9.2	41.37S	175.11E	28	2.1	0.1	9	7
9763	SEP 23	1221 30.1	41.68S	174.29E	9	2.6	0.2	15	12
9766	SEP 23	1244 18.5	41.69S	174.29E	12	2.4	0.2	12	8
9767	SEP 23	1328 41.0	41.29S	174.43E	17	2.3	0.3	11	8
9774	SEP 23	1901 59.0	40.85S	175.08E	34	2.1	0.1	6	5
9780	SEP 24	0604 57.6	40.60S	175.86E	32	2.4	0.2	15	9
9784	SEP 24	1010 40.9	40.52S	173.93E	123	2.7	0.1	11	7
9788	SEP 24	1247 5.1	41.64S	174.79E	29	2.7	0.2	17	11
9790	SEP 24	1458 18.1	41.27S	173.87E	56	2.4	0.2	12	8
9797	SEP 24	1951 4.3	41.61S	174.41E	12	2.1	0.2	7	6
9799	SEP 24	2131 32.2	41.16S	174.68E	28	2.6	0.1	14	11
9806	SEP 25	0351 9.2	40.97S	175.50E	22	2.6	0.3	14	10
9807	SEP 25	0412 1.5	41.17S	174.77E	30	2.2	0.1	9	7
9815	SEP 25	1638 18.6	40.64S	174.60E	53	2.8	0.3	12	8
9819	SEP 25	2139 36.2	40.90S	174.83E	57	2.3	0.1	7	5
9820	SEP 25	2223 57.6	41.64S	174.26E	15	2.6	0.2	16	13
9833	SEP 26	1609 34.9	40.51S	175.85E	55	2.6	0.2	11	6
9834	SEP 26	1736 39.2	41.45S	175.94E	30	2.7	0.1	11	7
9836	SEP 26	1905 14.1	40.59S	175.85E	36	2.3	0.2	9	3
9841	SEP 27	0150 48.6	41.56S	174.31E	25	2.3	0.1	11	8
9843	SEP 27	0238 43.7	40.86S	174.68E	5R	2.2	0.1	10	6
9850	SEP 27	0656 51.0	40.95S	175.50E	23	2.2	0.1	13	7
9855	SEP 27	1218 26.1	41.14S	174.61E	58	2.2	0.1	7	5
9857	SEP 27	1342 40.6	41.40S	175.00E	25	2.9	0.1	24	15
9859	SEP 27	1351 14.0	41.41S	174.99E	26	2.3	0.1	10	8
9861	SEP 27	1448 23.8	41.39S	174.98E	25	2.0	0.1	7	5
9863	SEP 27	1505 18.5	41.39S	175.01E	24	2.2	0.2	9	7
9864	SEP 27	1544 29.7	41.40S	174.99E	26	2.6	0.2	17	12
9873	SEP 28	0001 25.5	41.02S	174.53E	20	2.2	0.2	8	5
9876	SEP 28	0632 8.6	41.28S	175.00E	23	2.3	0.1	12	9
9878	SEP 28	0745 9.7	40.56S	174.22E	69	2.8	0.2	18	12

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9883	SEP 28	1129 55.4	41.29S	175.01E	28	2.4	0.2	16	12
9884	SEP 28	1200 4.9	40.50S	175.08E	40	2.0	0.2	7	5
9888	SEP 28	1517 34.1	41.32S	174.44E	37	2.5	0.2	23	14
9891	SEP 28	1732 22.7	41.57S	175.35E	20	2.4	0.2	18	11
9892	SEP 28	1732 51.0	41.59S	175.37E	19	2.4	0.2	18	11
9902	SEP 28	2010 36.6	41.04S	174.54E	35	2.1	0.1	8	5
9905	SEP 28	2222 58.2	40.59S	173.76E	140	2.6	0.1	9	7
9914	SEP 29	0810 33.0	40.89S	175.92E	28	2.1	0.1	12	7
9915	SEP 29	0943 35.4	40.63S	174.02E	74	2.4	0.2	10	6
9916	SEP 29	1025 59.9	41.29S	174.24E	40	2.1	0.1	10	7
9919	SEP 29	1210 35.6	41.61S	175.37E	21	2.5	0.2	17	11
9922	SEP 29	1532 51.9	41.31S	174.99E	24	2.0	0.1	10	7
9934	SEP 29	2316 17.1	41.06S	174.54E	39	2.1	0.1	9	7
9941	SEP 30	0439 44.6	41.37S	175.06E	27	2.2	0.1	10	8
9954	SEP 30	1439 37.3	41.63S	174.58E	26	2.1	0.1	13	8
9956	SEP 30	1446 59.3	41.37S	174.97E	27	2.5	0.1	19	12
9957	SEP 30	1521 22.3	41.37S	174.97E	25	2.0	0.1	13	10
9959	SEP 30	1743 43.6	41.75S	174.53E	38	2.5	0.1	17	11
9965	SEP 30	2111 19.5	40.54S	174.95E	32	2.3	0.2	10	6
9966	SEP 30	2147 49.8	41.70S	174.61E	25	2.0	0.1	8	5
9970	OCT 01	0205 51.8	41.24S	174.76E	29	2.2	0.1	12	9
9972	OCT 01	0221 39.7	40.88S	175.76E	31	2.4	0.2	15	8
9973	OCT 01	0244 24.0	41.80S	174.13E	11	2.2	0.3	7	5
9977	OCT 01	0451 29.5	40.89S	174.97E	38	2.0	0.1	11	7
9986	OCT 01	1207 21.5	40.91S	174.08E	54	2.7	0.3	16	11
9989	OCT 01	1352 27.7	41.54S	173.53E	82	2.5	0.2	13	10
9990	OCT 01	1426 1.3	40.52S	173.52E	121	3.0	0.2	21	13
9993	OCT 01	1552 25.9	40.62S	175.85E	32	2.3	0.2	16	8
9997	OCT 01	1930 5.4	40.62S	175.50E	32	2.3	0.1	12	7
9998	OCT 01	2143 35.6	41.55S	175.22E	18	2.1	0.2	9	6
9999	OCT 01	2143 58.5	41.57S	175.23E	20	2.0	0.2	10	6
10004	OCT 01	2251 9.7	41.79S	174.37E	27	2.5	0.2	15	11
10005	OCT 02	0021 43.8	41.20S	174.63E	57	2.4	0.1	13	10
10013	OCT 02	0502 28.7	41.18S	173.91E	53	2.7	0.1	9	7
10026	OCT 02	2002 24.3	40.88S	175.21E	30	2.3	0.2	8	7
10027	OCT 02	2013 3.8	40.64S	174.30E	64	3.1	0.2	26	14
10028	OCT 02	2301 9.9	40.60S	173.71E	90	3.4	0.3	27	17
10035	OCT 03	0617 0.4	40.99S	174.84E	32	2.0	0.1	10	6
10039	OCT 03	1051 15.8	41.74S	174.58E	32	2.1	0.1	7	4
10040	OCT 03	1054 46.1	41.01S	174.46E	40	2.7	0.2	21	13
10041	OCT 03	1206 34.0	40.53S	174.43E	55	2.8	0.2	18	11
10045	OCT 03	1249 15.6	41.73S	174.49E	32	2.2	0.2	10	7
10048	OCT 03	1758 19.4	40.66S	175.90E	33	2.7	0.1	14	9
10052	OCT 03	2222 27.3	40.71S	175.86E	22	2.6	0.3	16	9
10055	OCT 04	0345 42.2	41.21S	175.24E	27	2.0	0.1	11	7

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10058	OCT 04	0808 42.0	40.99S	174.03E	38	2.3	0.3	13	7
10069	OCT 04	1450 39.1	41.15S	173.78E	65	2.3	0.2	9	6
10071	OCT 04	1941 54.0	41.41S	174.47E	32	2.1	0.1	8	6
10075	OCT 05	0244 56.4	41.09S	175.50E	29	2.1	0.1	12	9
10077	OCT 05	0341 14.8	40.58S	174.01E	65	2.4	0.3	8	7
10081	OCT 05	0622 54.3	41.71S	174.25E	9	2.2	0.2	9	8
10088	OCT 05	1518 29.8	41.06S	173.62E	87	3.1	0.2	20	14
10092	OCT 05	1618 39.0	41.07S	173.59E	79	2.4	0.1	11	7
10101	OCT 06	0337 40.4	41.34S	173.52E	66	2.5	0.2	9	7
10102	OCT 06	0340 57.1	41.72S	174.92E	31	2.4	0.2	10	8
10108	OCT 06	1229 27.5	40.93S	175.02E	31	2.5	0.2	16	13
10118	OCT 06	2003 22.0	40.99S	175.58E	26	2.8	0.2	17	12
10123	OCT 07	0345 7.0	41.53S	174.46E	22	2.3	0.2	10	8
10126	OCT 07	0531 25.3	40.92S	175.70E	26	2.3	0.2	14	9
10131	OCT 07	1029 26.1	40.85S	174.84E	63	2.5	0.1	15	11
10138	OCT 07	1559 5.2	41.26S	175.35E	30	3.3	0.2	23	15
10139	OCT 07	1559 38.8	41.25S	175.33E	28	2.4	0.1	12	7
10143	OCT 07	1704 17.8	40.64S	175.02E	18	2.5	0.2	18	14
10144	OCT 07	1705 8.7	40.75S	174.92E	35	2.0	0.0	7	6
10154	OCT 07	2327 50.5	41.33S	173.77E	49	2.5	0.1	9	6
10161	OCT 08	0309 41.6	40.55S	174.67E	67	3.3	0.2	28	20
10163	OCT 08	0404 50.2	41.04S	174.22E	47	2.1	0.1	10	6
10166	OCT 08	0444 45.7	41.69S	174.62E	37	2.3	0.2	10	7
10171	OCT 08	0927 40.8	40.64S	173.85E	84	2.7	0.3	13	8
10175	OCT 08	1248 28.9	41.40S	175.48E	18	2.1	0.2	11	8
10184	OCT 08	2003 39.5	41.54S	174.38E	17	2.1	0.2	9	8
10185	OCT 08	2016 42.6	41.25S	173.83E	66	3.4	0.2	23	19
10189	OCT 08	2322 31.7	41.23S	174.41E	56	2.2	0.0	8	5
10221	OCT 10	0431 49.7	41.02S	174.84E	46	2.3	0.1	11	8
10225	OCT 10	1030 9.4	40.53S	175.78E	38	3.5F	0.2	38	28
10228	OCT 10	1128 50.9	41.52S	174.13E	32	2.6	0.2	21	15
10234	OCT 10	2035 20.9	41.83S	174.54E	29	2.8	0.2	21	14
10235	OCT 10	2158 46.6	40.88S	174.76E	14	2.0	0.2	8	5
10236	OCT 11	0134 57.0	41.08S	174.48E	31	2.2	0.1	10	7
10237	OCT 11	0149 7.6	40.79S	174.83E	5R	2.0	0.2	8	4
10239	OCT 11	0209 13.4	40.98S	175.66E	33R	2.3	0.3	10	7
10243	OCT 11	0514 52.0	40.68S	174.78E	22	2.0	0.2	7	6
10244	OCT 11	0554 2.3	41.60S	173.81E	74	2.2	0.1	7	6
10245	OCT 11	0725 8.7	40.59S	175.72E	30	2.4	0.3	14	10
10247	OCT 11	1026 55.4	41.18S	173.85E	55	2.8	0.2	14	9
10248	OCT 11	1052 1.3	41.65S	174.31E	7	2.5	0.2	15	12
10250	OCT 11	1304 7.8	41.64S	174.60E	30	2.3	0.2	9	7
10253	OCT 11	1359 27.1	40.63S	175.47E	29	2.1	0.1	9	6
10257	OCT 11	1529 24.4	40.67S	173.67E	83	2.4	0.2	12	7
10259	OCT 11	1748 27.2	40.82S	174.25E	55	3.1	0.3	21	14

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
10260	OCT 11	1840 52.9	41.00S	174.79E	31	3.1	0.2	26	20
10272	OCT 12	1024 55.1	40.65S	173.81E	117	2.2	0.3	9	5
10276	OCT 12	1351 4.0	40.90S	175.00E	30	2.1	0.1	15	12
10278	OCT 12	1607 43.2	40.98S	174.49E	39	2.3	0.1	10	8
10282	OCT 12	2251 35.6	40.84S	174.23E	54	2.3	0.1	6	3
10287	OCT 13	1314 56.0	40.52S	174.92E	33	2.7	0.1	11	6
10288	OCT 13	1410 53.9	41.01S	175.62E	28	2.2	0.2	9	7
10299	OCT 14	0134 19.4	40.53S	175.47E	5R	2.5	0.2	8	6
10318	OCT 14	1957 42.4	41.73S	174.50E	34	2.6	0.1	8	6
10321	OCT 14	2116 14.3	41.59S	174.38E	5R	2.8	0.2	19	13
10322	OCT 14	2130 58.6	41.21S	173.81E	58	2.6	0.2	12	7
10323	OCT 14	2131 46.4	41.58S	174.37E	11	3.2	0.2	23	19
10324	OCT 14	2132 22.0	41.57S	174.36E	5R	3.2	0.2	23	17
10328	OCT 15	0238 54.7	41.17S	174.79E	51	2.7	0.1	13	10
10333	OCT 15	1013 56.9	40.73S	174.01E	97	2.6	0.3	12	8
10360	OCT 15	2329 47.0	41.60S	174.63E	29	2.5	0.1	8	6
10362	OCT 16	0006 4.2	41.77S	174.53E	32	2.4	0.1	9	6
10363	OCT 16	0036 36.8	40.89S	174.78E	61	2.3	0.0	7	6
10364	OCT 16	0037 29.5	41.80S	173.76E	45	3.4	0.3	32	18
10365	OCT 16	0039 13.9	41.67S	174.29E	14	2.1	0.1	8	6
10371	OCT 16	0736 10.8	41.01S	174.78E	30	2.0	0.0	10	8
10375	OCT 16	1331 45.0	41.71S	174.49E	30	2.2	0.1	10	8
10376	OCT 16	1344 59.2	41.00S	174.02E	61	2.4	0.1	9	6
10377	OCT 16	1600 6.6	41.45S	175.56E	21	2.0	0.1	11	7
10383	OCT 16	2307 25.9	41.68S	174.26E	5R	2.4	0.1	14	11
10386	OCT 17	0004 56.1	41.67S	174.29E	5R	2.2	0.2	9	6
10394	OCT 17	0750 12.3	40.61S	175.90E	25	2.0	0.2	6	4
10398	OCT 17	1414 24.3	40.53S	174.65E	49	3.2	0.2	32	22
10406	OCT 17	2326 8.6	40.57S	174.83E	60	4.1	0.2	33	25
10422	OCT 18	2300 42.2	40.61S	173.98E	71	2.1	0.2	7	5
10423	OCT 19	0100 23.7	40.91S	173.94E	63	2.5	0.1	12	6
10430	OCT 19	0744 38.3	41.00S	174.55E	56	2.3	0.0	7	5
10431	OCT 19	0800 49.2	41.65S	174.70E	24	2.2	0.1	9	7
10433	OCT 19	1115 56.5	40.61S	175.69E	33	2.4	0.1	6	3
10437	OCT 19	1447 18.0	41.62S	173.62E	57	2.5	0.2	10	6
10438	OCT 19	1448 34.1	41.64S	173.68E	58	2.5	0.2	10	6
10440	OCT 19	1705 45.7	40.56S	174.78E	39	2.6	0.2	11	9
10446	OCT 20	0025 0.4	41.23S	174.45E	33	2.5	0.1	9	7
10451	OCT 20	0510 22.7	41.40S	174.47E	24	2.0	0.2	8	6
10460	OCT 20	1604 14.3	40.77S	175.08E	34	2.7	0.1	13	9
10469	OCT 21	0142 27.2	41.89S	173.91E	18	2.5	0.2	12	9
10473	OCT 21	0417 27.9	41.42S	174.42E	23	2.3	0.1	10	7
10477	OCT 21	1035 2.5	40.62S	175.12E	39	2.9	0.2	23	16
10489	OCT 22	0416 53.6	40.99S	174.41E	53	2.3	0.1	8	6
10493	OCT 22	0958 14.0	40.97S	174.03E	56	2.0	0.1	10	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
10498	OCT 22	1436 31.6	41.12S	174.46E	40	2.0	0.1	10	6
10519	OCT 23	1303 57.2	41.05S	175.24E	28	2.0	0.1	11	7
10534	OCT 23	2033 59.0	40.95S	173.71E	74	2.4	0.1	9	6
10536	OCT 23	2138 8.7	41.04S	175.90E	30	2.1	0.1	9	5
10541	OCT 24	0425 6.9	41.81S	174.52E	18	2.4	0.2	11	7
10542	OCT 24	0505 41.3	40.85S	173.58E	88	2.8	0.3	17	9
10544	OCT 24	0837 24.8	41.13S	175.20E	33	2.2	0.1	11	7
10545	OCT 24	0930 49.7	41.47S	174.38E	19	2.6	0.2	17	12
10546	OCT 24	0936 43.3	41.06S	174.41E	65	2.5	0.1	10	7
10548	OCT 24	1125 29.0	41.48S	174.34E	19	2.1	0.3	12	9
10573	OCT 25	0517 0.8	41.32S	174.24E	65	2.3	0.1	10	7
10574	OCT 25	0538 15.2	41.09S	174.19E	68	3.1	0.2	31	18
10576	OCT 25	0737 39.7	41.13S	173.86E	62	2.3	0.1	10	6
10585	OCT 25	1434 45.5	40.92S	175.49E	25	2.1	0.1	13	8
10590	OCT 25	1705 8.8	40.64S	174.79E	25	2.0	0.2	9	7
10599	OCT 26	0215 58.7	41.02S	174.78E	31	2.8	0.1	15	10
10603	OCT 26	0536 6.4	41.85S	173.99E	20	2.6	0.2	11	8
10623	OCT 27	0925 0.2	41.21S	175.19E	25	2.0	0.1	10	7
10629	OCT 27	1124 21.4	40.51S	175.95E	55	2.8	0.2	22	13
10632	OCT 27	1222 54.8	41.50S	174.38E	18	2.2	0.2	13	9
10639	OCT 27	2055 30.4	40.89S	175.49E	24	2.7	0.1	22	14
10642	OCT 27	2358 54.4	40.72S	174.83E	5R	3.1	0.2	28	18
10654	OCT 28	0806 26.7	40.53S	175.95E	52	2.6	0.1	17	9
10659	OCT 28	1200 21.3	41.03S	174.70E	59	2.2	0.1	14	10
10676	OCT 28	1742 59.0	41.65S	174.62E	31	2.7	0.2	20	12
10689	OCT 28	2352 20.8	40.83S	175.68E	25	2.1	0.1	13	8
10693	OCT 29	0224 59.9	40.54S	174.79E	30	2.6	0.2	13	9
10711	OCT 29	2100 53.2	41.40S	173.86E	49	2.3	0.1	11	7
10738	OCT 30	1120 20.2	40.67S	175.86E	37	2.0	0.1	10	4
10739	OCT 30	1209 12.0	41.08S	175.44E	5R	2.5	0.2	23	15
10749	OCT 30	2218 42.0	40.99S	173.78E	66	2.6	0.2	19	11
10755	OCT 31	0825 55.7	40.84S	175.35E	34	2.2	0.2	17	10
10762	OCT 31	1359 49.2	41.76S	173.68E	44	2.6	0.3	20	15
10769	OCT 31	1828 53.0	41.05S	173.52E	93	2.7	0.3	20	13
10773	OCT 31	2143 27.8	40.62S	174.51E	68	2.2	0.2	9	6
10784	NOV 01	0845 41.1	41.02S	174.86E	34	2.6	0.1	22	13
10787	NOV 01	1151 55.2	41.65S	174.64E	31	2.9	0.2	25	15
10789	NOV 01	1229 58.8	40.92S	175.36E	24	2.1	0.2	15	8
10801	NOV 02	0630 12.4	41.64S	174.59E	29	2.3	0.1	13	10
10807	NOV 02	0957 59.8	41.20S	173.63E	75	2.4	0.1	12	7
10810	NOV 02	1011 11.8	41.43S	175.00E	29	3.3	0.2	29	19
10811	NOV 02	1029 29.0	40.89S	175.35E	24	2.0	0.2	12	7
10827	NOV 03	0807 44.2	41.36S	175.75E	23	3.5	0.1	29	19
10845	NOV 03	2335 15.4	41.62S	173.90E	12R	2.6	0.3	21	16
10847	NOV 04	0215 16.2	40.81S	174.73E	5R	2.3	0.2	10	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
10849	NOV 04	0552 49.4	40.97S	174.07E	54	2.5	0.1	9	6
10852	NOV 04	0605 33.0	40.96S	174.06E	59	2.5	0.1	10	7
10853	NOV 04	0642 7.3	41.63S	173.91E	11	3.4	0.3	29	20
10854	NOV 04	0755 47.2	40.94S	174.00E	53	2.1	0.1	9	5
10856	NOV 04	0942 54.9	40.74S	174.97E	23	2.6	0.2	17	11
10864	NOV 04	1410 54.7	41.21S	174.52E	33	2.3	0.2	12	9
10868	NOV 04	1522 34.4	40.87S	174.73E	17	2.2	0.0	10	6
10872	NOV 04	1630 1.0	40.99S	174.01E	59	2.2	0.1	9	6
10877	NOV 04	1859 19.5	41.78S	174.47E	5R	2.3	0.2	12	10
10895	NOV 05	0850 19.3	40.57S	174.56E	45	2.1	0.1	7	5
10910	NOV 06	0401 8.5	41.15S	174.64E	31	2.3	0.1	15	11
10917	NOV 06	0814 2.2	41.73S	174.35E	12R	2.2	0.3	10	8
10920	NOV 06	1134 1.3	41.80S	174.30E	18	2.2	0.3	10	9
10925	NOV 06	1323 48.7	40.90S	175.50E	26	2.1	0.1	7	5
10926	NOV 06	1536 36.5	40.79S	175.14E	34	2.0	0.2	8	6
10930	NOV 06	1744 29.4	41.71S	174.31E	14	2.4	0.3	24	16
10938	NOV 07	0052 49.3	40.97S	173.58E	106	3.1	0.3	10	6
10940	NOV 07	0207 19.6	40.73S	173.95E	72	2.3	0.1	10	6
10941	NOV 07	0220 49.4	41.75S	174.24E	18	2.5	0.3	23	17
10942	NOV 07	0319 41.2	41.23S	175.79E	28	3.3	0.2	27	17
10949	NOV 07	0805 20.4	41.00S	173.70E	80	2.9	0.3	32	18
10960	NOV 07	1830 52.8	41.38S	174.31E	33R	2.5	0.3	16	11
10965	NOV 08	0105 48.9	41.53S	174.43E	55	2.5	0.1	23	15
10966	NOV 08	0306 52.3	40.70S	174.48E	64	2.6	0.1	14	8
10971	NOV 08	0810 34.7	41.22S	174.62E	31	2.0	0.2	15	11
10973	NOV 08	0922 5.0	41.17S	173.63E	84	2.7	0.3	21	10
10975	NOV 08	1210 36.1	40.75S	174.70E	23	2.2	0.1	12	8
10983	NOV 08	1528 4.5	40.98S	173.78E	74	2.9	0.2	28	15
11000	NOV 09	0259 57.5	41.75S	174.60E	28	2.0	0.2	12	9
11001	NOV 09	0317 28.7	41.05S	173.85E	62	2.0	0.1	9	5
11004	NOV 09	0411 35.6	41.28S	175.23E	30	3.1	0.2	35	22
11006	NOV 09	0715 1.0	40.79S	174.69E	5R	2.6	0.2	22	16
11012	NOV 09	1046 21.1	40.67S	175.80E	47	3.4	0.2	33	23
11015	NOV 09	1213 7.3	41.77S	174.51E	28	2.2	0.2	12	10
11016	NOV 09	1353 11.4	40.50S	173.96E	107	2.5	0.2	12	9
11021	NOV 09	1636 44.6	41.65S	174.51E	48	2.3	0.2	12	10
11022	NOV 09	1644 4.6	40.61S	174.97E	33	2.0	0.2	11	7
11023	NOV 09	1733 13.9	41.56S	173.73E	48	3.1	0.2	34	20
11024	NOV 09	1737 5.4	41.56S	173.74E	47	2.7	0.2	28	17
11027	NOV 09	2002 42.1	40.83S	173.69E	88	2.9	0.2	24	12
11032	NOV 10	0057 55.8	40.50S	174.99E	27	2.1	0.1	14	7
11035	NOV 10	0457 37.3	40.62S	174.33E	38	2.0	0.0	7	4
11041	NOV 10	0913 15.2	41.59S	174.24E	12R	2.1	0.3	9	6
11053	NOV 10	1928 32.2	41.11S	175.30E	26	2.2	0.1	13	9
11055	NOV 10	2047 27.6	40.99S	173.86E	83	2.3	0.2	11	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
11058	NOV 11	0014 17.8	40.67S	173.84E	95	2.6	0.2	19	9
11060	NOV 11	0216 19.5	40.86S	175.63E	26	2.3	0.1	15	10
11061	NOV 11	0459 53.6	41.67S	174.60E	31	3.1	0.2	26	16
11062	NOV 11	0500 24.7	41.67S	174.61E	30	3.0	0.2	17	10
11063	NOV 11	0501 56.6	41.61S	174.61E	29	2.4	0.1	7	5
11080	NOV 11	1246 37.1	40.91S	175.20E	22	2.1	0.2	19	11
11087	NOV 11	1536 4.1	41.09S	174.00E	48	2.2	0.1	10	6
11088	NOV 11	1809 43.3	40.54S	174.15E	79	2.1	0.1	10	5
11110	NOV 12	1738 20.0	41.11S	174.45E	65	2.3	0.1	16	10
11111	NOV 12	1901 40.9	41.22S	173.54E	63	2.4	0.1	12	6
11112	NOV 12	1914 37.7	40.54S	173.81E	91	2.8	0.3	15	8
11126	NOV 13	0337 10.5	41.77S	174.51E	33	2.5	0.1	11	8
11138	NOV 13	0655 41.9	40.65S	174.97E	14	2.1	0.1	14	8
11158	NOV 13	0847 50.0	41.24S	173.92E	79	2.8	0.2	19	9
11208	NOV 13	1227 49.3	41.76S	174.46E	29	2.1	0.1	13	10
11270	NOV 13	1559 4.4	41.02S	175.30E	26	2.8	0.2	29	18
11281	NOV 14	0224 9.9	41.30S	174.44E	22	2.0	0.2	9	6
11284	NOV 14	0349 32.5	40.65S	174.84E	14	3.5	0.2	37	26
11288	NOV 14	0526 40.7	41.20S	175.15E	9	2.4	0.2	18	12
11294	NOV 14	0837 9.3	41.05S	174.79E	31	2.0	0.1	11	8
11299	NOV 14	1221 39.3	40.51S	174.44E	86	3.0	0.2	20	13
11300	NOV 14	1313 52.4	40.61S	175.38E	33	2.1	0.1	8	5
11305	NOV 14	1735 6.0	40.71S	174.32E	46	2.2	0.0	9	5
11320	NOV 15	0537 18.3	41.16S	173.97E	58	2.1	0.2	8	6
11327	NOV 15	0956 46.8	41.37S	173.65E	98	2.5	0.1	10	8
11331	NOV 15	1307 17.0	41.32S	174.59E	36	2.1	0.2	11	8
11339	NOV 15	1639 0.8	41.14S	173.51E	92	2.2	0.2	10	6
11358	NOV 16	0811 18.5	41.15S	175.67E	24	2.2	0.1	16	9
11365	NOV 16	1339 49.5	41.08S	175.80E	25	2.3	0.3	22	14
11373	NOV 16	2010 23.0	40.75S	175.08E	32	2.2	0.2	14	9
11383	NOV 17	0134 19.5	40.55S	174.15E	80	2.5	0.3	18	8
11389	NOV 17	0734 30.0	40.69S	175.42E	27	2.5	0.1	20	12
11404	NOV 17	2306 44.1	40.67S	175.86E	32	2.3	0.1	12	6
11405	NOV 18	0102 10.1	41.41S	174.42E	23	2.0	0.2	8	6
11414	NOV 18	0606 51.6	41.40S	174.51E	53	2.4	0.1	13	7
11420	NOV 18	1848 41.9	41.51S	175.54E	27	2.3	0.1	11	7
11421	NOV 18	1923 59.8	40.76S	174.58E	39	2.7	0.1	18	10
11423	NOV 18	2223 1.3	41.36S	173.78E	61	3.0	0.2	24	15
11430	NOV 19	0445 37.9	41.42S	174.67E	22	2.2	0.2	10	7
11433	NOV 19	1033 10.9	40.73S	174.81E	18	2.2	0.2	14	7
11437	NOV 19	1137 55.7	41.29S	175.74E	20	2.8	0.2	19	14
11439	NOV 19	1229 8.3	41.28S	175.74E	20	2.1	0.1	10	6
11449	NOV 20	0136 22.0	41.51S	173.98E	37	2.8	0.2	21	17
11470	NOV 20	1621 51.6	40.84S	175.76E	30	2.4	0.2	20	12
11479	NOV 21	0110 6.9	41.79S	174.51E	37	3.7	0.2	30	22

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
11486	NOV 21	0441 43.2	41.79S	174.50E	30	2.7	0.2	22	15
11492	NOV 21	1207 44.1	41.15S	173.98E	52	2.3	0.2	13	7
11501	NOV 21	1951 40.3	40.80S	174.74E	5R	2.1	0.2	12	7
11509	NOV 22	0201 50.7	41.02S	174.55E	35	2.0	0.1	9	6
11519	NOV 22	1852 17.2	41.80S	174.03E	21	2.3	0.2	13	10
11522	NOV 22	2031 46.5	40.74S	174.33E	52	2.0	0.1	7	5
11523	NOV 22	2133 54.9	40.52S	174.33E	55	2.5	0.2	10	6
11525	NOV 22	2244 3.2	41.15S	173.95E	53	2.2	0.1	10	6
11526	NOV 22	2252 42.7	40.86S	173.66E	87	2.9	0.2	20	11
11527	NOV 22	2317 33.6	41.00S	175.10E	24	2.3	0.2	16	10
11538	NOV 23	1346 26.3	40.56S	175.89E	29	2.6	0.2	22	13
11540	NOV 23	1616 1.4	41.84S	174.09E	21	2.9	0.2	20	15
11543	NOV 23	1918 18.3	41.23S	175.34E	28	2.5	0.1	17	10
11559	NOV 24	0305 47.5	41.39S	175.36E	15	2.3	0.2	15	10
11560	NOV 24	0434 16.5	41.80S	174.00E	21	2.3	0.3	10	7
11564	NOV 24	0547 14.1	41.82S	174.07E	20	2.6	0.2	20	17
11565	NOV 24	0548 58.5	41.81S	174.06E	20	2.9	0.3	23	19
11575	NOV 24	1325 27.0	41.81S	174.09E	12	2.3	0.2	8	6
11583	NOV 24	2049 12.7	41.45S	174.38E	32	2.6	0.2	21	16
11584	NOV 24	2207 46.0	40.75S	174.36E	60	3.0	0.2	36	20
11587	NOV 25	0052 52.3	41.76S	174.54E	29	2.7	0.2	25	16
11588	NOV 25	0213 3.6	40.52S	174.22E	96	2.9	0.2	13	8
11599	NOV 25	1141 33.8	41.24S	175.19E	25	2.1	0.1	14	10
11604	NOV 25	1459 28.7	41.84S	175.63E	32	2.7	0.1	18	11
11605	NOV 25	1700 38.1	40.66S	174.53E	44	3.1	0.2	27	21
11606	NOV 25	1721 58.6	40.78S	174.26E	55	2.1	0.1	9	6
11616	NOV 26	0051 25.8	41.30S	174.30E	63	2.1	0.1	11	6
11622	NOV 26	0704 37.7	40.63S	174.46E	59	2.6	0.2	14	8
11627	NOV 26	1112 11.6	40.53S	174.82E	27	2.2	0.2	15	9
11636	NOV 26	1618 38.8	41.38S	173.73E	52	2.0	0.0	7	5
11640	NOV 26	2015 57.7	40.61S	175.49E	31	2.3	0.1	14	8
11641	NOV 26	2218 48.8	40.80S	174.39E	44	2.1	0.1	7	5
11648	NOV 27	0246 21.7	41.23S	174.68E	28	2.1	0.1	12	9
11652	NOV 27	0611 46.2	40.66S	175.43E	30	2.1	0.0	11	5
11659	NOV 27	1137 32.4	40.61S	175.47E	33	2.3	0.2	10	7
11663	NOV 27	1319 1.8	40.65S	174.37E	49	2.2	0.1	7	5
11669	NOV 27	1540 35.0	41.62S	174.66E	30	2.2	0.2	14	10
11677	NOV 27	2131 38.1	41.74S	174.48E	27	2.3	0.2	12	10
11679	NOV 27	2201 43.3	41.24S	175.33E	28	2.5	0.1	18	11
11680	NOV 27	2219 18.7	41.52S	173.54E	85	3.0	0.3	31	20
11686	NOV 28	0002 35.1	41.06S	174.82E	32	2.3	0.1	14	10
11691	NOV 28	0159 59.6	41.13S	175.44E	29	2.1	0.2	13	9
11705	NOV 28	0919 43.9	40.75S	175.14E	30	2.3	0.1	17	10
11707	NOV 28	0958 54.4	41.38S	174.59E	30	2.2	0.1	18	12
11718	NOV 28	1858 29.0	41.37S	174.27E	34	2.8	0.2	21	15

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
11729	NOV 29	0024 42.9	40.57S	174.71E	21	2.6	0.2	21	15
11733	NOV 29	0406 48.8	40.84S	175.80E	28	2.2	0.2	17	9
11735	NOV 29	0502 36.6	41.83S	174.55E	30	2.6	0.2	25	17
11740	NOV 29	1108 10.5	40.65S	175.51E	58	2.0	0.1	12	7
11743	NOV 29	1303 3.3	40.86S	174.75E	16	2.0	0.2	17	9
11750	NOV 29	1851 24.8	41.04S	174.55E	62	2.0	0.1	9	5
11762	NOV 30	0719 5.5	41.12S	174.58E	39	2.3	0.2	10	8
11768	NOV 30	1054 19.4	40.52S	174.30E	81	2.6	0.3	20	12
11769	NOV 30	1342 10.4	40.97S	173.69E	75	2.3	0.1	10	7
11772	NOV 30	1400 40.3	41.79S	174.39E	40	2.2	0.2	14	11
11776	NOV 30	1525 59.3	40.95S	175.42E	21	2.8	0.2	29	18
11782	NOV 30	2022 16.5	41.29S	174.94E	27	2.0	0.1	7	5
11785	NOV 30	2120 54.0	40.97S	174.20E	50	2.5	0.2	11	7
11787	NOV 30	2159 14.9	40.64S	174.84E	34	2.0	0.2	10	7
11803	DEC 01	1027 54.5	40.53S	175.96E	24	2.3	0.1	17	8
11825	DEC 02	0906 23.9	40.86S	175.54E	21	2.1	0.2	17	9
11831	DEC 02	1319 15.6	41.61S	173.57E	85	2.8	0.2	26	14
11833	DEC 02	1410 20.0	40.80S	175.83E	28	2.1	0.1	11	4
11837	DEC 02	1800 41.7	40.65S	174.84E	5R	2.7	0.2	16	12
11852	DEC 03	1126 31.0	41.65S	174.33E	30	2.2	0.2	14	10
11864	DEC 03	2123 2.6	40.91S	174.79E	48	2.6	0.1	14	8
11869	DEC 04	0555 38.5	40.96S	175.19E	27	2.3	0.2	17	10
11875	DEC 04	0931 15.6	40.68S	175.96E	35	2.3	0.1	11	4
11878	DEC 04	1132 23.8	40.54S	175.47E	45	2.3	0.2	9	3
11887	DEC 04	1544 29.9	41.09S	174.75E	33	2.2	0.1	11	8
11892	DEC 04	2153 18.0	41.16S	174.64E	32	2.7	0.2	24	15
11898	DEC 05	0358 9.0	41.47S	173.61E	55	2.7	0.1	21	11
11899	DEC 05	0432 23.6	40.78S	174.91E	52	2.4	0.1	8	5
11902	DEC 05	0724 2.5	40.92S	174.91E	46	2.0	0.1	6	4
11904	DEC 05	1044 12.4	41.92S	174.25E	24	2.5	0.2	19	11
11918	DEC 05	2031 41.3	41.62S	173.84E	34	2.5	0.2	21	12
11938	DEC 06	1104 52.4	41.42S	174.01E	41	2.3	0.2	9	7
11958	DEC 06	2046 13.4	40.93S	173.97E	66	3.5	0.2	36	20
11962	DEC 06	2334 14.7	40.63S	174.38E	5R	2.0	0.2	13	7
11973	DEC 07	0924 27.7	40.98S	175.61E	27	3.0	0.1	21	15
11984	DEC 07	2140 27.9	41.19S	175.38E	26	2.1	0.2	14	7
11985	DEC 07	2152 17.3	41.18S	175.23E	26	2.2	0.1	15	10
11988	DEC 07	2240 5.8	40.82S	175.72E	23	2.1	0.2	17	10
11995	DEC 08	0324 32.3	41.33S	173.59E	69	2.2	0.2	13	7
11998	DEC 08	0646 18.8	40.50S	174.54E	5R	2.2	0.3	15	8
12001	DEC 08	0804 25.1	41.70S	174.52E	29	2.1	0.2	11	9
12005	DEC 08	0929 37.2	41.16S	174.89E	31	2.0	0.1	11	7
12009	DEC 08	1024 48.2	41.27S	175.20E	24	2.1	0.1	12	7
12025	DEC 08	2021 23.0	41.81S	174.54E	32	2.3	0.2	17	12
12035	DEC 09	0409 44.9	40.54S	175.85E	27	2.9	0.2	29	18

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
12036	DEC 09	0431 7.5	41.37S	175.11E	25	2.0	0.1	13	9
12045	DEC 09	1139 16.7	41.38S	174.37E	36	2.7	0.2	19	15
12054	DEC 09	1751 37.7	40.71S	174.34E	46	2.1	0.1	8	6
12057	DEC 09	1907 15.0	41.73S	174.47E	30	2.6	0.2	19	15
12060	DEC 09	2005 2.9	40.61S	175.79E	19	2.2	0.3	9	5
12061	DEC 09	2106 35.0	40.95S	175.02E	29	2.1	0.1	12	7
12062	DEC 09	2237 11.1	41.12S	174.63E	54	2.5	0.1	12	10
12084	DEC 10	2004 28.2	41.11S	174.60E	31	3.1	0.2	26	18
12093	DEC 11	0358 37.9	40.55S	175.80E	29	2.2	0.2	14	8
12094	DEC 11	0452 53.3	40.78S	175.13E	29	2.7	0.1	23	14
12096	DEC 11	0541 43.3	41.27S	175.29E	26	2.2	0.1	13	8
12099	DEC 11	1026 38.5	41.01S	175.44E	25	2.3	0.1	16	9
12102	DEC 11	1344 24.7	40.81S	175.13E	41	4.0F	0.2	37	27
12104	DEC 11	1448 41.1	41.83S	174.36E	22	2.4	0.2	17	12
12111	DEC 11	1806 48.4	40.96S	175.15E	30	2.6	0.2	21	15
12113	DEC 11	1847 25.0	40.98S	173.78E	77	2.9	0.2	24	14
12114	DEC 11	2005 41.8	40.82S	175.81E	29	2.1	0.1	15	8
12115	DEC 11	2009 58.3	41.72S	174.44E	28	2.2	0.2	9	7
12116	DEC 11	2118 1.5	40.90S	174.83E	62	2.0	0.2	11	8
12117	DEC 11	2132 29.7	40.99S	175.02E	45	2.6	0.1	16	10
12133	DEC 12	1015 27.9	40.98S	174.52E	57	2.2	0.1	10	6
12140	DEC 12	1551 5.7	40.66S	175.49E	29	2.8	0.2	20	12
12143	DEC 12	2057 49.6	40.85S	175.19E	30	2.1	0.1	9	6
12145	DEC 12	2352 12.8	40.86S	175.14E	32	2.4	0.2	18	11
12147	DEC 13	0053 55.8	41.33S	174.59E	31	2.1	0.2	12	9
12153	DEC 13	0625 52.0	41.66S	174.58E	30	2.0	0.1	7	4
12168	DEC 13	1203 22.3	41.50S	174.39E	19	2.4	0.1	16	12
12169	DEC 13	1203 41.0	41.50S	174.40E	18	2.5	0.2	19	13
12172	DEC 13	1232 48.2	40.75S	174.48E	75	2.2	0.2	8	5
12173	DEC 13	1348 42.9	41.23S	174.56E	57	2.4	0.1	13	8
12176	DEC 13	1427 28.0	40.58S	175.97E	27	2.6	0.2	13	8
12180	DEC 13	1713 16.3	40.59S	175.97E	28	2.3	0.2	16	8
12188	DEC 14	0009 51.0	40.70S	175.32E	29	2.0	0.0	9	5
12192	DEC 14	0132 29.1	41.15S	174.53E	34	2.2	0.1	10	7
12196	DEC 14	0339 40.0	40.56S	174.78E	31	2.0	0.2	11	7
12209	DEC 14	1523 19.0	41.18S	174.59E	39	2.3	0.2	15	11
12216	DEC 14	2234 13.2	40.81S	174.76E	5R	2.1	0.3	12	7
12220	DEC 15	0028 12.9	41.59S	174.35E	16	2.5	0.2	17	11
12221	DEC 15	0029 42.4	41.57S	174.34E	24	2.4	0.2	13	10
12222	DEC 15	0134 36.4	40.65S	175.73E	28	2.2	0.1	13	7
12223	DEC 15	0202 38.6	41.92S	173.95E	16	2.2	0.2	11	9
12229	DEC 15	1038 43.9	40.50S	174.76E	5R	2.0	0.2	10	6
12237	DEC 15	1802 15.0	40.90S	174.96E	37	2.0	0.2	16	10
12246	DEC 16	0601 54.8	41.07S	174.56E	60	2.2	0.1	10	8
12253	DEC 16	0952 49.5	41.87S	174.42E	27	2.0	0.1	7	5

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
12274	DEC 17	0043 36.3	41.61S	174.96E	28	2.2	0.2	10	8
12277	DEC 17	0239 38.3	40.63S	174.75E	25	2.2	0.2	15	8
12300	DEC 18	0302 8.7	41.74S	174.52E	28	2.6	0.2	11	9
12301	DEC 18	0309 53.8	41.73S	174.49E	27	2.3	0.1	8	5
12307	DEC 18	0533 16.3	41.49S	174.12E	35	2.5	0.3	14	7
12309	DEC 18	0703 22.9	41.10S	175.46E	29	2.2	0.2	15	8
12324	DEC 19	0247 30.5	41.13S	174.13E	49	2.5	0.2	14	8
12325	DEC 19	0257 0.5	40.56S	174.75E	68	2.8	0.1	12	7
12328	DEC 19	0628 49.3	41.12S	174.39E	65	2.7	0.1	11	9
12330	DEC 19	1010 15.9	40.54S	175.80E	37	2.1	0.1	10	4
12331	DEC 19	1055 37.6	41.22S	173.95E	49	2.8	0.2	16	11
12333	DEC 19	1245 39.5	40.84S	174.91E	47	2.5	0.2	18	10
12335	DEC 19	1305 28.5	40.89S	175.00E	38	2.1	0.1	18	11
12339	DEC 19	1628 58.3	40.97S	175.60E	29	2.7	0.1	22	12
12341	DEC 19	1730 2.2	40.75S	175.76E	29	2.2	0.2	12	6
12342	DEC 19	1805 29.2	41.44S	174.81E	29	2.3	0.1	23	13
12346	DEC 19	2343 4.9	40.92S	175.54E	20	3.2	0.2	26	17
12356	DEC 20	1421 34.7	40.74S	175.87E	32	2.9	0.1	23	15
12365	DEC 20	2347 2.5	41.80S	174.03E	19	2.1	0.2	12	8
12367	DEC 21	0047 0.9	41.33S	174.17E	40	2.4	0.2	10	7
12382	DEC 21	1401 25.3	40.63S	174.43E	57	2.3	0.2	14	8
12388	DEC 21	2143 23.3	40.60S	174.21E	49	2.4	0.2	10	8
12395	DEC 22	0355 47.0	41.63S	174.21E	13	2.4	0.2	16	12
12396	DEC 22	0404 35.5	40.52S	174.70E	31	2.1	0.1	9	5
12397	DEC 22	0421 26.7	40.88S	175.74E	29	2.1	0.1	12	7
12405	DEC 22	0658 50.1	40.79S	175.06E	34	2.2	0.1	13	8
12408	DEC 22	0803 48.4	41.80S	174.46E	31	2.2	0.1	14	9
12409	DEC 22	0820 46.1	40.95S	175.41E	20	2.4	0.2	17	10
12411	DEC 22	0910 27.6	41.08S	174.18E	50	3.0	0.2	26	18
12412	DEC 22	0931 39.6	40.58S	175.97E	29	2.7	0.2	19	11
12416	DEC 22	1136 33.9	40.64S	173.72E	101	2.3	0.2	10	6
12421	DEC 22	1655 3.9	41.11S	173.50E	92	2.7	0.2	18	10
12422	DEC 22	1820 50.2	40.50S	174.31E	64	2.5	0.2	17	10
12425	DEC 22	1908 0.1	41.63S	173.92E	40	2.4	0.2	14	9
12437	DEC 23	0822 58.7	41.16S	174.09E	52	3.4	0.2	38	24
12440	DEC 23	1218 43.5	41.02S	174.51E	61	2.0	0.1	9	6
12471	DEC 24	1005 7.2	41.24S	174.64E	34	2.2	0.1	15	10
12474	DEC 24	1147 10.5	41.44S	173.52E	63	2.2	0.1	9	6
12482	DEC 24	1427 0.8	40.85S	175.18E	29	2.1	0.1	19	11
12492	DEC 24	1836 44.2	41.09S	173.89E	85	2.0	0.4	9	4
12496	DEC 24	1950 24.2	40.60S	175.99E	24	3.1	0.3	26	17
12526	DEC 25	2022 39.8	40.60S	174.32E	62	2.7	0.2	19	12
12539	DEC 26	0538 51.4	41.03S	174.64E	50	2.1	0.1	8	6
12542	DEC 26	0714 27.6	41.01S	174.31E	17	2.7	0.2	24	13
12551	DEC 26	1959 40.4	40.85S	174.73E	13	2.8	0.2	23	15

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
12561	DEC 27	0802 46.4	40.72S	175.37E	26	2.1	0.1	11	6
12564	DEC 27	1328 31.7	40.62S	175.49E	31	2.0	0.2	6	5
12582	DEC 28	0348 59.7	41.38S	175.04E	25	2.0	0.1	13	8
12591	DEC 28	1024 34.9	40.62S	174.07E	98	2.5	0.2	11	8
12605	DEC 28	1940 8.7	41.39S	175.04E	24	2.1	0.1	15	10
12607	DEC 28	2005 8.4	41.39S	175.04E	25	2.1	0.1	15	10
12608	DEC 28	2025 36.9	41.39S	175.04E	24	2.1	0.0	12	8
12609	DEC 28	2059 14.7	41.02S	173.91E	60	2.9	0.3	15	9
12614	DEC 29	0226 54.5	40.90S	175.52E	23	3.0	0.2	22	14
12618	DEC 29	0709 14.8	40.75S	174.82E	22	2.3	0.2	12	8
12625	DEC 29	1241 45.3	41.28S	175.01E	24	2.4	0.1	15	10
12636	DEC 29	1911 55.9	41.17S	174.93E	26	2.0	0.3	8	5
12637	DEC 29	1923 40.4	41.56S	174.40E	14	2.2	0.2	13	9
12639	DEC 29	2039 0.2	40.67S	174.55E	39	2.4	0.1	7	5
12643	DEC 30	0331 26.9	41.00S	175.57E	28	2.5	0.1	15	9
12651	DEC 30	1502 31.3	40.76S	174.39E	54	2.0	0.2	9	6
12652	DEC 30	1927 42.7	41.01S	175.58E	17	2.1	0.1	13	7
12654	DEC 31	0125 41.6	41.09S	175.31E	23	2.3	0.2	17	11
12656	DEC 31	0302 51.4	41.42S	174.61E	29	2.5	0.2	15	11
12659	DEC 31	0435 39.0	41.12S	173.54E	94	2.4	0.2	10	6
12661	DEC 31	0705 36.3	40.90S	175.49E	30	2.5	0.1	16	10
12664	DEC 31	1138 37.9	40.97S	175.59E	28	2.9	0.2	22	14
12668	DEC 31	1538 24.5	40.62S	174.03E	64	2.2	0.1	9	6
12669	DEC 31	1554 36.0	40.63S	175.74E	31	2.3	0.2	16	8

NON-INSTRUMENTAL DATA

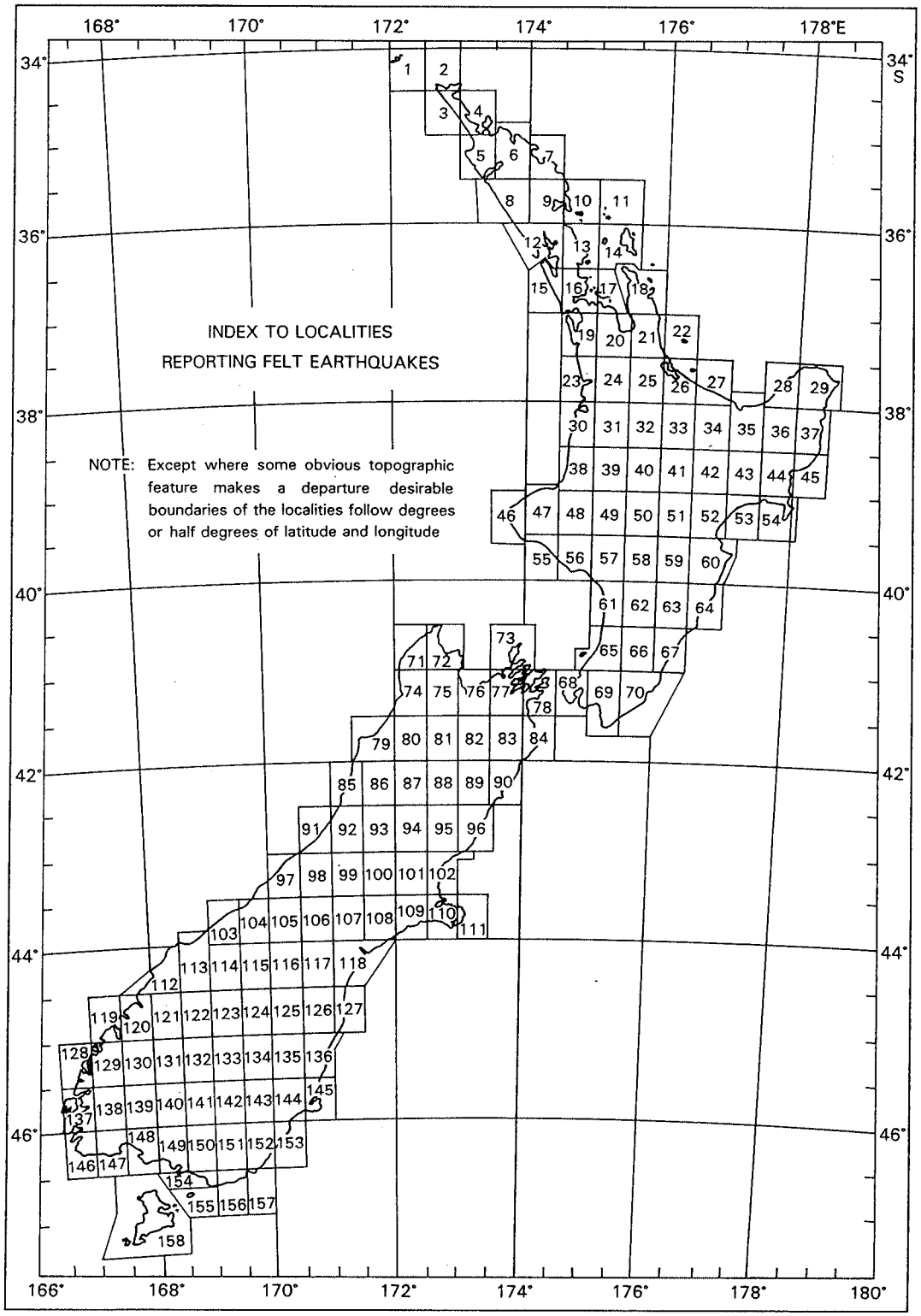
THE FELT REPORTING SYSTEM

The Observatory has recruited a network of about 600 voluntary observers spread throughout the country, who use a standard form to describe the effects of any earthquake they feel. The Observatory also collects casual reports from newspapers, meteorological observers, postmasters and members of the local public. For large earthquakes, or ones with features of special interest, questionnaires are issued and assessed.

Several difficulties arise in assessing the distribution of felt intensity. The population of the country is very unevenly spread, and the observers' personal circumstances may prevent them from feeling a shock that has been noticed by others. These problems also affect lists of earthquakes felt in particular localities. It may reasonably be assumed that a strong earthquake reported from one township was felt in another nearby, even though the Observatory has received no report. However, an index of this kind must summarise data and not deductions, so the following scheme is used.

The land area of New Zealand has been divided into 'localities', mostly bounded by half-degree lines of latitude and longitude, but varied as necessary to avoid splitting obvious geographic or structural units (see map overleaf). Each locality has a number and a name, usually that of the principal population centre within it. The names are listed overleaf. In most localities there are at least two well-separated reporters, but there are still some sparsely populated parts of the country without observers, notably in Southland. Felt information is summarised in information lines following the instrumental data in the main list of earthquakes. Modified Mercalli intensities quoted there have been assessed by the Observatory from replies to standard questionnaires. Assessments based on less formal descriptions of intensity are included in the following list, in which the localities which have reported shocks during the year are presented in alphabetical order, each followed by the reference numbers of the shocks felt and their respective maximum reported intensities within that locality. By comparing the reports from neighbouring localities, it is possible to form a truer estimate of the incidence of the felt effects than would be possible from a simple list of places reporting each shock.

A further list records reports received from places in the south-west Pacific.



Standard Reporting Localities.

STANDARD REPORTING LOCALITIES

1	Three Kings	41	Taupo	81	Glenhope	121	Glenorchy
2	Te Reinga	42	Te Whaiti	82	Wairau	122	Arrowtown
3	Ninety Mile Beach	43	Tuai	83	Awatere	123	Wanaka
4	Doubtless Bay	44	Whakapunaki	84	Cape Campbell	124	St Bathans
5	Kaitaia	45	Gisborne	85	Greymouth	125	Kurow
6	Kaikohe	46	Cape Egmont	86	Reefton	126	Duntroon
7	Bay of Islands	47	New Plymouth	87	Maruia	127	Waimate
8	Dargaville	48	Whangamomona	88	Hanmer	128	Secretary Is.
9	Whangarei	49	Ohakune	89	Clarence	129	Doubtful Sound
10	Bream Head	50	Chateau	90	Kaikoura	130	Te Anau
11	Moko Hinau	51	Kaweka	91	Hokitika	131	Livingstone Mts
12	Kaipara	52	Napier	92	Kumara	132	Kingston
13	Warkworth	53	Wairoa	93	Arthur's Pass	133	Alexandra
14	Barrier Islands	54	Mahia	94	Lake Sumner	134	Poolburn
15	Helensville	55	Hawera	95	Culverden	135	Ranfurly
16	Auckland	56	Waverley	96	Cheviot	136	Oamaru
17	Waiheke	57	Wanganui	97	Franz Josef	137	Resolution Island
18	Coromandel	58	Taihape	98	Hari Hari	138	Pillans Pass
19	Pukekohe	59	Ruahine	99	Whitcombe Pass	139	Monowai
20	Mercer	60	Hastings	100	Lake Coleridge	140	Mossburn
21	Thames	61	Bulls	101	Oxford	141	Waikaia
22	Mayor Is.	62	Palmerston North	102	Rangiora	142	Roxburgh
23	Raglan	63	Dannevirke	103	Haast	143	Lawrence
24	Hamilton	64	Porangahau	104	Bruce Bay	144	Outram
25	Matamata	65	Otaki	105	Mount Cook	145	Dunedin
26	Tauranga	66	Masterton	106	Tekapo	146	Puysegur Point
27	Whakatane	67	Castlepoint	107	Mount Somers	147	Poteretere
28	Te Kaha	68	Wellington	108	Ashburton	148	Tuatapere
29	East Cape	69	Featherston	109	Rakaia	149	Invercargill
30	Kawhia	70	Martinborough	110	Christchurch	150	Gore
31	Te Kuiti	71	Mount Stevens	111	Akaroa	151	Clinton
32	Tokoroa	72	Takaka	112	Big Bay	152	Balclutha
33	Rotorua	73	D'Urville Island	113	Jackson's Bay	153	Waihola
34	Murupara	74	Karamea	114	Makarora	154	Bluff
35	Opotiki	75	Motueka	115	Lake Ohau	155	Ruapuke
36	Motu	76	Nelson	116	Pukaki	156	Tahakopa
37	Tolaga Bay	77	Blenheim	117	Fairlie	157	Owaka
38	Mokau	78	Picton	118	Timaru	158	Stewart Is.
39	Taumarunui	79	Westport	119	George Sound	159	Chatham Islands
40	Tokaanu	80	Murchison	120	Milford		

EARTHQUAKES FELT IN STANDARD LOCALITIES

Localities within which earthquakes were felt are listed in alphabetical order, each 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. An asterisk (*) indicates that the particular intensity was not evaluated from the standard questionnaire. The location of the earthquake, the instrumental magnitude and the actual places at which it was reported felt may be found from the table Summary of Origins and Magnitudes.

93	Arthur's Pass	3075	(4),	9844	(4),	12400	(4).						
16	Auckland	6640	(4).										
83	Awatere	76	(4*).										
77	Blenheim	1380	(4),	4139	(4),	5856	(6),	76	(4*).				
104	Bruce Bay	20	(4),	58	(4),	3075	(4),	11670	(4).				
61	Bulls	1349	(4*),	1380	(4),	1727	(4),	4896	(4),	5856	(4),	6561	(4),
		8232	(3),	8330	(4).								
67	Castlepoint	8330	(4).										
96	Cheviot	5856	(4).										
110	Christchurch	3075	(4),	110	(4*),	76	(4*).						
63	Dannevirke	1349	(4),	1602	(4*),	2293	(4*),	2349	(4*),	2476	(4*),	2492	(4*),
		5272	(4*),	5375	(5*),	8330	(4),	8375	(3),	9781	(4*).		
129	Doubtful Sound	110	(1).										
145	Dunedin	1635	(4),	76	(4*).								
29	East Cape	5272	(5),	5315	(3).								
69	Featherston	4397	(4*),	8232	(4*).								
97	Franz Josef	3075	(4),	110	(4*).								
45	Gisborne	71	(4*),	5272	(5*),	6640	(4*),	8502	(4*),	8536	(4*),	12213	(4*).
81	Glenhope	4818	(4).										
121	Glenorchy	1858	(4),	4562	(4),	5033	(4).						
85	Greymouth	3075	(4),	110	(4*),	3506	(4),	5856	(4).				
24	Hamilton	5856	(4*),	6640	(4*).								
98	Hari Hari	11670	(4*).										

60	Hastings	1349	(4),	1727	(5),	68	(4*),	1929	(4),	2349	(4),	2476	(3),										
		2492	(4*),	5375	(4),	5856	(4),	8330	(4),	8502	(4),	8768	(4*),										
		10952	(4),	12213	(4*).																		
55	Hawera	1380	(4*).																				
91	Hokitika	3075	(4),	110	(4*),	3506	(4*),	76	(4*),	9418	(4*),	9765	(4*).										
90	Kaikoura	1380	(4*),	76	(4*),	11890	(4*).																
132	Kingston	10198	(4).																				
92	Kumara	3075	(5),	3076	(4*),	3506	(4),	5856	(4),	11890	(4).												
100	Lake Coleridge	3075	(4),	3506	(4),	5856	(4).																
70	Martinborough	4251	(4*).																				
87	Maruia	3075	(4),	5856	(4).																		
66	Masterton	1602	(4*),	4251	(4*),	62	(4*),	8330	(4*),	12389	(4*).												
20	Mercer	2754	(3),	6640	(4).																		
139	Monowai	10658	(3).																				
36	Motu	5272	(5*).																				
75	Motueka	1275	(4),	5856	(4),	9403	(3).																
34	Murupara	6640	(5).																				
52	Napier	383	(4),	1465	(4),	2349	(4),	8330	(4),	8768	(4),	10952	(4),										
		12213	(4).																				
76	Nelson	1380	(4),	68	(4*),	5856	(6),	9403	(4*).														
47	New Plymouth	1380	(4),	1727	(4),	5856	(4),	8741	(4*),	8742	(4*),	9303	(4).										
49	Ohakune	1727	(4),	68	(4*).																		
35	Opotiki	2754	(4),	5272	(4),	6640	(5),	6644	(3),	7755	(3).												
65	Otaki	1727	(4),	2349	(4*),	3316	(4*),	5856	(5),	6561	(4),	8108	(4*),										
		8232	(3),	8330	(4),	8502	(4*),	8754	(4*),	8759	(4*),	12102	(4),										
		12124	(4*),	12174	(4*),	12558	(4).																
144	Outram	1635	(4).																				
62	Palmerston North	327	(4*),	1349	(4),	1380	(3),	1727	(5),	68	(4*),	2349	(4),										
		2476	(4*),	2492	(3),	4896	(4),	8108	(4*),	8232	(4*),	8330	(4),										
		8375	(4),	10225	(4*),	11441	(4*),	12124	(4*),	12174	(4).												
78	Picton	3316	(4*),	4078	(4),	5856	(5),	76	(4*),	6640	(3),	9403	(4*).										
64	Porangahau	1349	(4),	1727	(4),	4038	(4),	5375	(4).														
116	Pukaki	3075	(1),	110	(4*),	76	(4*).																

19	Pukekohe	6640 (3).
86	Reefton	2354 (4), 11670 (4*).
33	Rotorua	1499 (4*), 1887 (4), 2301 (4), 2490 (3), 2754 (4), 6419 (4), 6640 (4), 6644 (3), 7155 (5*), 7367 (4*), 7386 (4*), 7387 (4*), 7388 (4), 7390 (4), 7395 (4), 7397 (4), 7419 (4), 7421 (4), 7430 (4), 7750 (4), 8155 (4), 9036 (4*), 10483 (4*), 10484 (4*), 11127 (4), 11166 (4*), 11170 (4*), 11172 (4*), 11223 (4), 11239 (4*), 11244 (4*), 11247 (4*), 11275 (4), 11283 (4), 11296 (4).
59	Ruahine	744 (4).
58	Taihape	1349 (4), 1602 (4), 1727 (3), 9391 (4).
39	Taumarunui	1380 (3), 1727 (3), 5856 (3).
41	Taupo	1015 (4), 3962 (4), 4976 (4), 4980 (4*), 9661 (4), 10483 (4*), 10484 (4*).
26	Tauranga	2754 (5), 3055 (4*), 6640 (6).
130	Te Anau	76 (4*).
28	Te Kaha	2754 (4*), 6640 (3).
106	Tekapo	3075 (5), 3506 (4), 4944 (4), 11670 (4).
21	Thames	2754 (6), 2964 (4), 3470 (4), 6640 (5), 6644 (4*).
40	Tokaanu	470 (4), 4665 (4), 4971 (3), 9661 (4).
32	Tokoroa	7933 (4), 7944 (4).
17	Waiheke	6640 (3).
153	Waihola	1635 (4).
53	Wairoa	1929 (4*).
123	Wanaka	110 (1).
57	Wanganui	744 (4*), 1380 (4), 1624 (4), 1681 (4), 1727 (5), 68 (4*), 4598 (4*), 5856 (4), 6561 (4), 8108 (4), 8232 (2), 8330 (4), 8759 (4), 10019 (4).
68	Wellington	1380 (4), 1727 (4), 68 (4*), 2349 (3), 3316 (3), 4397 (4*), 5017 (4), 5856 (5), 62 (4*), 6134 (4*), 8232 (4), 8330 (4), 8694 (4*), 8754 (4), 9403 (3), 12102 (4*), 12213 (4*), 12558 (4).
79	Westport	3075 (4), 110 (4*), 3506 (4), 5856 (4), 11670 (4), 11765 (4), 11873 (3), 11883 (4), 11890 (4), 11921 (4).
44	Whakapunaki	71 (4), 5272 (4), 5315 (4*), 6640 (4), 7057 (4), 12213 (4).
27	Whakatane	6640 (6), 6644 (4*), 7097 (4*), 7365 (4*), 8852 (3), 8950 (4).

REPORTS FROM OUTSIDE NEW ZEALAND

The Observatory sometimes receives reports of earthquakes felt on islands of the south-west Pacific and other places beyond the limits of its systematic reporting network. Where Modified Mercalli scale intensities in the list below are shown in quotes, they have been estimated by the reporters, not the Observatory.

DATE	TIME	INTENSITY	PLACE
Feb 26	04h 57m	'felt'	Raoul Island
Mar 30	06h 10m	'MM 3'	Raoul Island
May 11	09h 59m	'felt'	Raoul Island
May 28	09h 27m	'felt'	Raoul Island
Jun 25	06h 31m	'MM 4	'Raoul Island
Jul 11	10h 45m	'MM 4'	Raoul Island
Aug 08	13h 09m	'MM 2'	Raoul Island
Aug 18	20h 01m	'MM 3'	Raoul Island
Sep 04	16h 16m	'MM 1'	Raoul Island
Sep 13	00h 06m	'MM 3'	Raoul Island
Oct 08	05h 06m	MM 4	Raoul Island
Oct 17	14h 14m	MM 4	Raoul Island
Oct 18	13h 32m	'MM 3'	Raoul Island
Oct 19	11h 22m	'MM 2'	Raoul Island
Oct 20	17h 13m	MM 4	Raoul Island
Oct 22	09h 05m	MM 4	Raoul Island
Oct 22	23h 09m	MM 5	Raoul Island
Oct 23	01h 18m	MM 4	Raoul Island
Oct 23	01h 58m	MM 4	Raoul Island
Oct 24	08h 19m	MM 5	Raoul Island
Oct 24	11h 50m	MM 5	Raoul Island
Oct 24	13h 45m	MM 4	Raoul Island
Oct 24	17h 13m	MM 3	Raoul Island
Oct 24	23h 01m	MM 5	Raoul Island
Oct 25	00h 30m	MM 4	Raoul Island
Oct 25	07h 24m	MM 4	Raoul Island
Oct 28	13h 31m	MM 4	Raoul Island
Oct 29	15h 28m	MM 4	Raoul Island
Oct 29	20h 37m	'MM 3'	Raoul Island
Nov 08	15h 06m	'MM 3'	Raoul Island

PUBLICATIONS BY STAFF MEMBERS

The following papers by members of the Seismological Observatory staff were published in 1992.

Anderson, H., Webb, T., Jackson, J. Accommodation of the Pacific-Australian plate motion in the South Island. p. 27. In: Nobes, D.C. (ed.) *Geological Society of New Zealand and New Zealand Geophysical Society 1992 joint annual conference, University of Canterbury, 23 November-27 November: programme and abstracts.* 171 p. Geological Society of New Zealand miscellaneous publication 63a.

Beanland, S., Anderson, H. The 1968 May 23 Inangahua Earthquake : an integrated geological, geodetic and seismological source model. p. 33. In: Nobes, D.C. (ed.) *Geological Society of New Zealand and New Zealand Geophysical Society 1992 joint annual conference, University of Canterbury, 23 November-27 November : programme and abstracts.* 171 p. Geological Society of New Zealand miscellaneous publication 63a.

Benites, R., Aki, K., Yomogida, K. Multiple scattering of SH waves in 2-D media with many cavities. *Pure and applied geophysics 138(3)*: 353-390.

The full waveform synthetic seismogram of multiple scattered SH waves by many cylindrical cavities in two-dimensional homogeneous elastic media is computed. We used the so-called "single-layer potential" integral representation of the scattered field and a discretization scheme with line source distribution for each cavity. The total field is the sum of the incident wave plus the field radiated from all sources, each multiplied by an unknown complex constant representing its strength. These constants are determined by imposing the appropriate boundary conditions in the least-squares sense. Here we solve scattering problems involving one, two, four, twelve and fifty cavities regularly distributed in a half-space. The seismograms computed along the free-surface show regions where the incident wave is strongly attenuated, as well as the arrivals of all multiple scattered phases. The accuracy of the method is estimated from the degree of agreement of our solution for one cavity with the corresponding analytical solution, and also from the magnitude of the residual tractions along the boundaries of two cavities separated at various distances. Finally we apply the method to compute the case of fifty cylindrical cavities, each of radius a, randomly distributed in a region 80a wide by 30a deep in a half-space. The value of scattering loss is obtained from the amplitude decay of the primary wave with distance for wavelengths in the range from 1.7a to 13.3a, using the synthetic seismogram calculated for the same distribution of 50 cavities as above, but in full-space.

Benites, R., Haines, J. Modelling the effect of local site conditions on seismic ground motions. p. 67-68. In: Begg, J.G. (ed.) *Recent advances in Wellington earth science : extended abstracts, 8-9 July 1992.* 93 p. NZGS Survey report G 166.

Bibby, H.M., Haines, A.J. Electromagnetic modelling with a Riccati equation approach for heterogeneous media. *Eos. Supplement 73(43)*: 144.

Haines, J., Benites, R. Prediction of ground motions at Ashigara valley using a hybrid method based on the Riccati Matrix Equation (Haines) and the Boundary Integral method. p. 97-98. In: *Proceedings of the International Symposium on the effects of surface geology on seismic motion, March 25-27, 1992, Odawara, Japan. ESG 1992. 2.* 2 v.

The Ashigara Valley, Tokyo, Japan, is a relatively flat sedimentary basin of elongated shape that extends about 12 km in the direction N 30 W, and 4 km across, in the direction of N 60 E. In this paper we present and discuss the results of a two-dimensional modelling of the seismic wave fields, within the basin, using the standard geological structure for the North-South profiles B-B' and C-C' through the two stations KS1 and KS2 at the southern end of the valley (Sawada 1990). Two earthquakes, mainshock and foreshock, whose epicentral distances were within 10 km from the valley were used as input motions for strong and weak motion modeling, respectively.

Jackson, J., Haines, J., Holt, W. The horizontal velocity field in the deforming Aegean Sea region determined from the moment tensors of earthquakes. *Journal of geophysical research 97(B12)*: 17,657-17,684.

We use the spatial distribution of seismic moment tensors of earthquakes in the Aegean region over the time interval 1909-1983 to recover a continuous horizontal velocity field that describes the overall deformation of the lithosphere at large length scales. The calculated velocity field is dominated by two effects: (1) an E-W right-lateral shear of the eastern Aegean, related to motion on the North Anatolian fault becoming distributed as it enters the Aegean; and (2) a N-S extension, probably related to the sinking of the slab in the Hellenic Trench. The southern part of the central Aegean is found to be moving in a SW direction relative to Europe at a rate of about 30 mm/yr (probably a lower bound, with an error of around $\pm$ 10 mm/yr) and rotating clockwise. In the seismogenic upper crust this velocity field is accommodated by right-lateral strike-slip faults in the eastern Aegean and by normal faults that rotate clockwise in central Greece. A comparison of paleomagnetic declination data with the expected rotation of rigid elongate inclusions in the velocity field shows in

most places an agreement in sense and approximate agreement in rate of rotation. Expected rotation rates of line elements are sometimes too low: probably because our derived velocity field is smoothed and unable to match locally high strain rates. There is only one part of the region where line elements are predicted to rotate in either clockwise or counterclockwise directions, depending on their orientation; this is in western Turkey, which, coincidentally, is the only place where paleomagnetic rotations in both directions have been observed. This coincidence in particular suggests to us that the analogy of rigid elongate inclusions in the velocity field, responding to forces on their bases, may be useful in predicting the senses and approximate rates of rotation of crustal blocks in deforming continental regions. The velocity field we obtain preserves the strike directions of the major faults as directions of zero length change, in spite of considerable smoothing. We use this observation to speculate that the interaction between the upper crust and the rest of the lithosphere beneath it may involve an interplay of effects. On one hand the variation of strength with direction in the crust may control the strike directions of faults that form or become reactivated and may also limit the velocity fields that are allowable. On the other hand, the fault bounded blocks may rotate in the velocity field in response to forces on their bases, which would require the velocity field to change with time if the directions of zero length change are fixed to the blocks.

Robinson, R., Whitehead, N.E. Radon variations in the Wellington region, New Zealand, and their relation to earthquakes. 17 p. *DSIR Physical Sciences report 52.*

Temporal changes in the radon content of ground water and soil gas have been monitored in the Wellington region since early 1978 in order to examine their relation to earthquakes. New Zealand is a region of plate convergence and subduction with a moderate level of seismicity, both crustal and deep. The measurement technique is of the "Track Edge" type and is simple and inexpensive to implement but is subject to several sources of error. The major feature of the data, in the form of monthly mean radon levels, is a large long term rise and fall in level lasting 2½ to 3 years. Data from five sites are well correlated due to this feature but shorter term fluctuations are less well correlated. Effects of changes in the weather are small. The long term radon "anomaly" cannot be convincingly related to any particular earthquake. Nor do earthquakes up to magnitude 5.2 within 100km show any clear effect on the radon level. Despite the lack of clear precursory effects due to specific earthquakes, there are some weak correlations between the radon level and the seismicity as a whole. These correlations, if physically real imply that post-event effects on radon are at least as important as precursory effects. However, it is not certain that the radon level is directly affected by earthquakes at all. It seems likely that the radon level reflects changes in regional strain rate that also monitor the seismicity.

Smith, W.D. Global seismic hazard assessment program technical planning meeting [May-June 1992, Italy]. 6 p. Lower Hutt: DSIR Geology & Geophysics.

Smith, W.D. How reliable are estimates of earthquake hazard in New Zealand? p. 71. In: Begg, J.G. (ed.) *Recent advances in Wellington earth science: extended abstracts, 8-9 July 1992.* 93 p. NZGS report G 166.

Smith, W.D. Principal earthquakes in New Zealand in 1991. *Bulletin of the New Zealand National Society for Earthquake Engineering 25(1)*: 1.

A review of significant earthquakes of the year.

Smith, W.D. A seismicity anomaly in Cook Strait and deliberations on a possible earthquake prediction, 1986-1988. 79 p. *Institute of Geological & Nuclear Sciences science report 92/12.*

In 1986 a study of New Zealand earthquakes identified a region near Wellington where the b-value had been anomalously high for the period 1981-85. A previous study had suggested that this phenomenon might be a precursor to large earthquakes. Because of the proximity to the city of Wellington, and the likely social sensitivity to the announcement of an earthquake prediction, extensive discussions were held within DSIR, and with scientific colleagues from Victoria University. A decision was taken not to make a public announcement, because it was judged that there was insufficient basis for doing so. Instead, surveillance was intensified over the Cook Strait region. No large earthquakes eventuated, but in 1990 a swarm with maximum magnitude 5.3 occurred very close to the location which had been identified in 1986 as the centre of the anomaly.

Smith, W.D. Seismology programme (Event K102). *New Zealand Antarctic record 12(1)*: 27.

Smith, W.D. A tribute to George Eiby. *Bulletin of the New Zealand National Society for Earthquake Engineering 25(1)*: 73.

Woodward, D.J., Haines, A.J. Effect of porosity and permeability on seismic reflections from aquifers. *Exploration geophysics 23(1/2)*: 453-458.

The variations in synthetic seismic reflection shot records due to different porosities and permeabilities of aquifers imbedded in non-porous rocks are sufficient for seismic techniques to be used to map these parameters using seismic reflection surveys, and thus increase the probability of drilling into productive portions of aquifers. The critical frequency of a water-filled Biot porous solid with the high permeability and porosity associated with gravel aquifers is within the frequency range commonly used in reflection

seismic prospecting. As permeability and porosity vary, the character of the reflections also changes because of changes in the partitioning of energy amongst the reflected and transmitted waves. As the critical frequency is reduced (by decreased porosity or increased permeability) the attenuation of the waves is reduced and reverberation at short offsets is increased. At offsets less than the depth of the aquifer the amplitudes of the reflections are more affected by the permeability than the porosity of the aquifer. Differences in shot records from explosive sources and hammer or vibrator sources (modelled as vertical tractions) are due to the generation of both shear and compressional waves by the latter, whereas in general an explosive source generates only compressional waves, although shear waves do result from the interaction of the compressional waves with changes in properties of the media and the free surface. This difference in source manifests itself by the presence or absence of shear-wave reflections on the records. If the offset range is great enough (say more than the depth of interest) then these shear-wave reflections will be recorded on vertical as well as horizontal geophones.

E-173 New Zealand Seismological Report 1989.

E.174 New Zealand Seismological Report 1990.

OBSERVATORY SERVICES

PUBLICATIONS

The Seismological Observatory issues the following series of publications:

1. E-bulletins. These consist of the 'New Zealand Seismological Reports' containing summaries of the data used for each origin determination, lists of origins, felt intensity data, and brief accounts of the principal earthquakes of the year. They also provide details of the instruments used to record earthquakes and descriptions of Observatory practices.

2. S-bulletins. These are mostly reprints of papers by members of the Observatory staff, but occasionally they have included other material not published elsewhere, such as the Eiby-Muir near-earthquake tables. Their automatic circulation is not now as widespread as it was in the past, but they are usually available from the Observatory on request.

Copies of this material may be purchased from the Observatory. In suitable cases the Observatory may be able to enter into agreements for a free exchange of publications on a continuing basis.

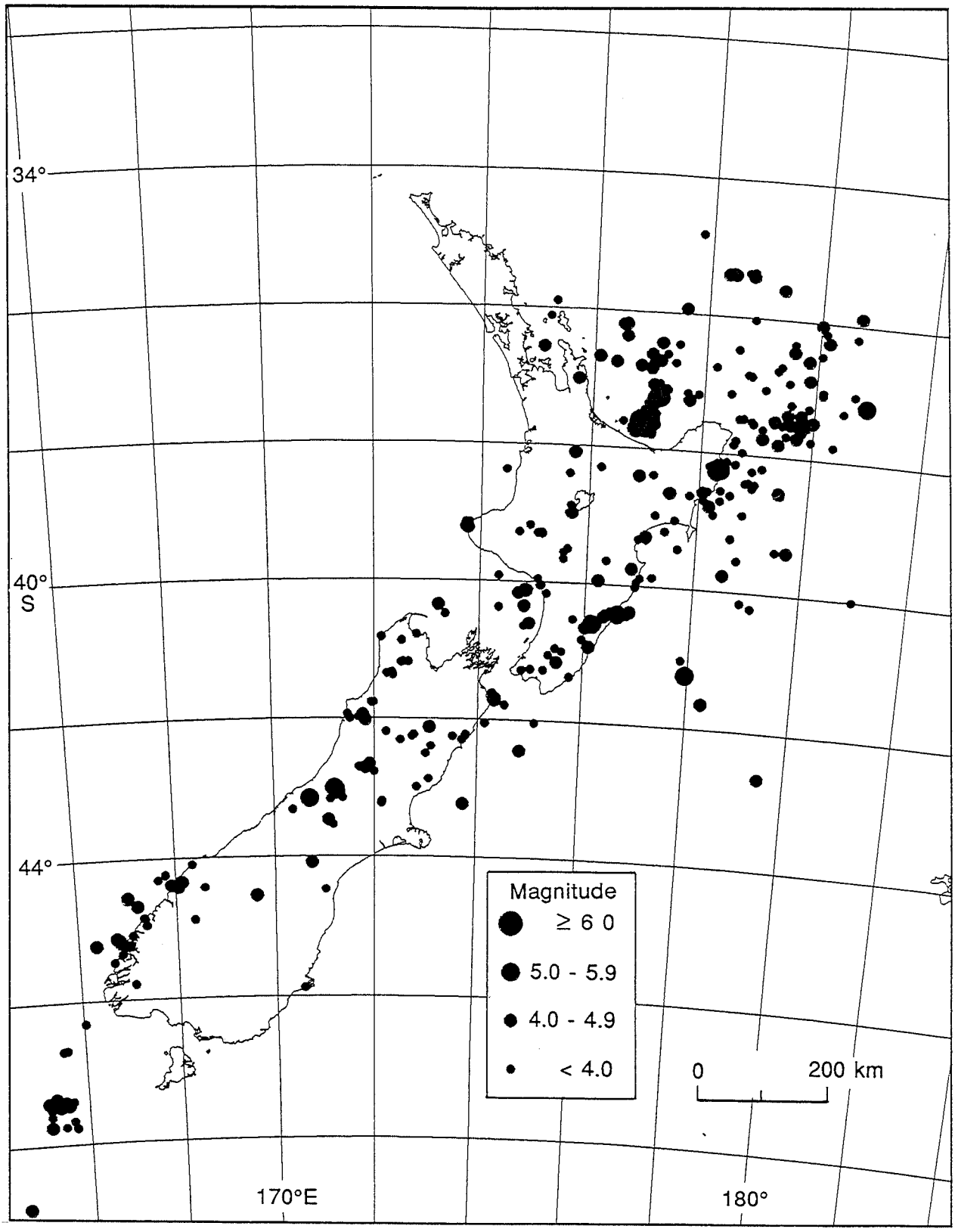
EARTHQUAKE CATALOGUE

The Observatory has a master file of some tens of thousands of earthquake origins and associated information stored on magnetic tape. From this, lists of earthquakes within particular geographical areas of New Zealand, or in categories defined in other ways, can be made available to researchers. Full details have been published elsewhere (W.D. Smith, 1976: 'A Computer File of New Zealand Earthquakes'; Bulletin of the New Zealand National Society for Earthquake Engineering, Vol. 9, No. 2, pp.136-7, New Zealand journal of geology and geophysics, Vol. 19, No. 3, pp.393-4). Criteria that may be specified are dates, magnitudes, focal depths, intensities and regions bounded in a number of different ways. It is also possible to search for earthquakes likely to have produced intensities above a specified minimum at a particular place and to list reports of above a given minimum intensity that have originated in a chosen reporting locality. Because of the dangers inherent in the use of incompletely assessed data, it is recommended that users should discuss their search criteria with the Observatory.

Waveforms of earthquakes recorded by digital seismographs are also archived and accessible for further processing by CUSP or other compatible software.

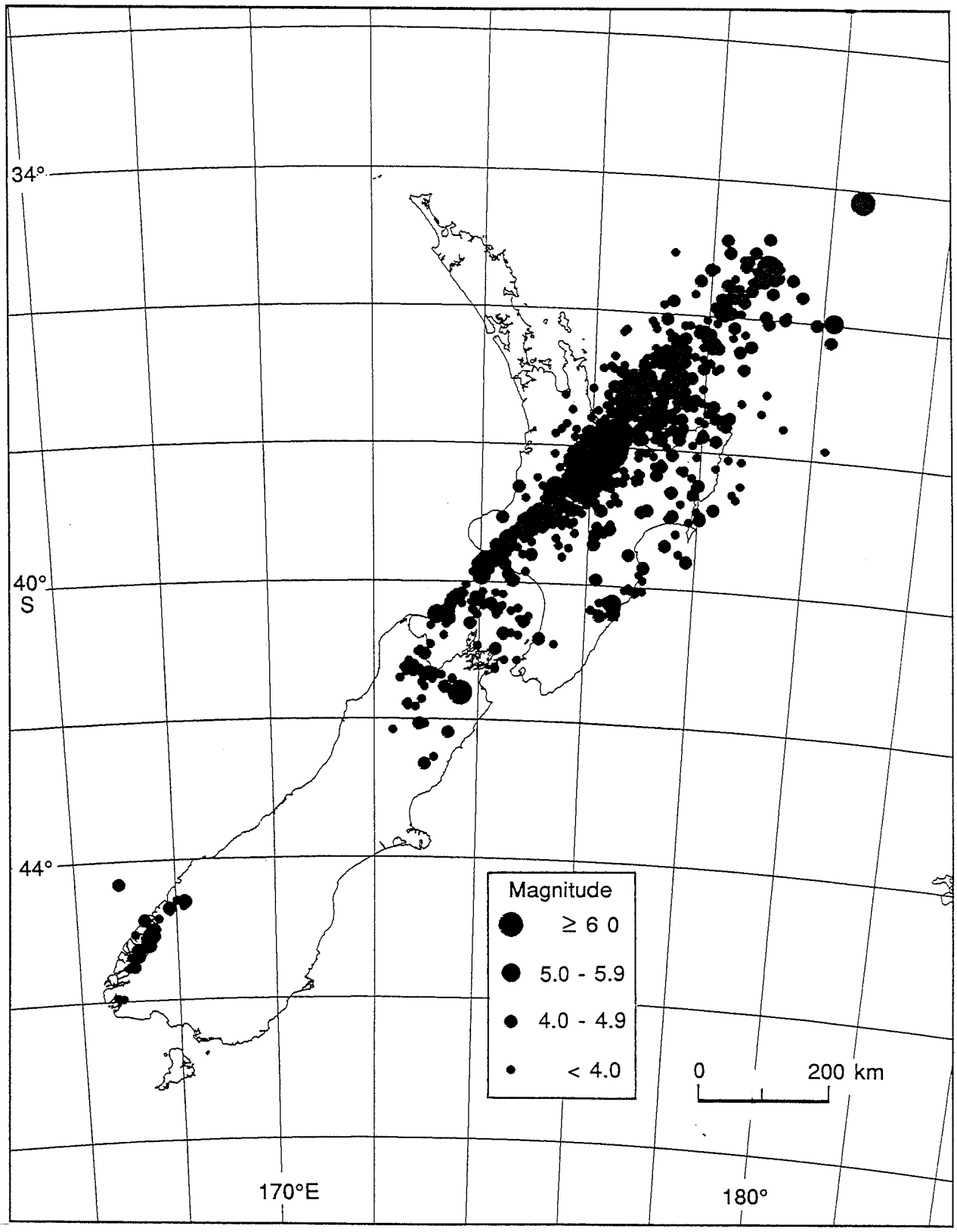
EPICENTRE MAPS 1992

REGIONAL SHALLOW EARTHQUAKES



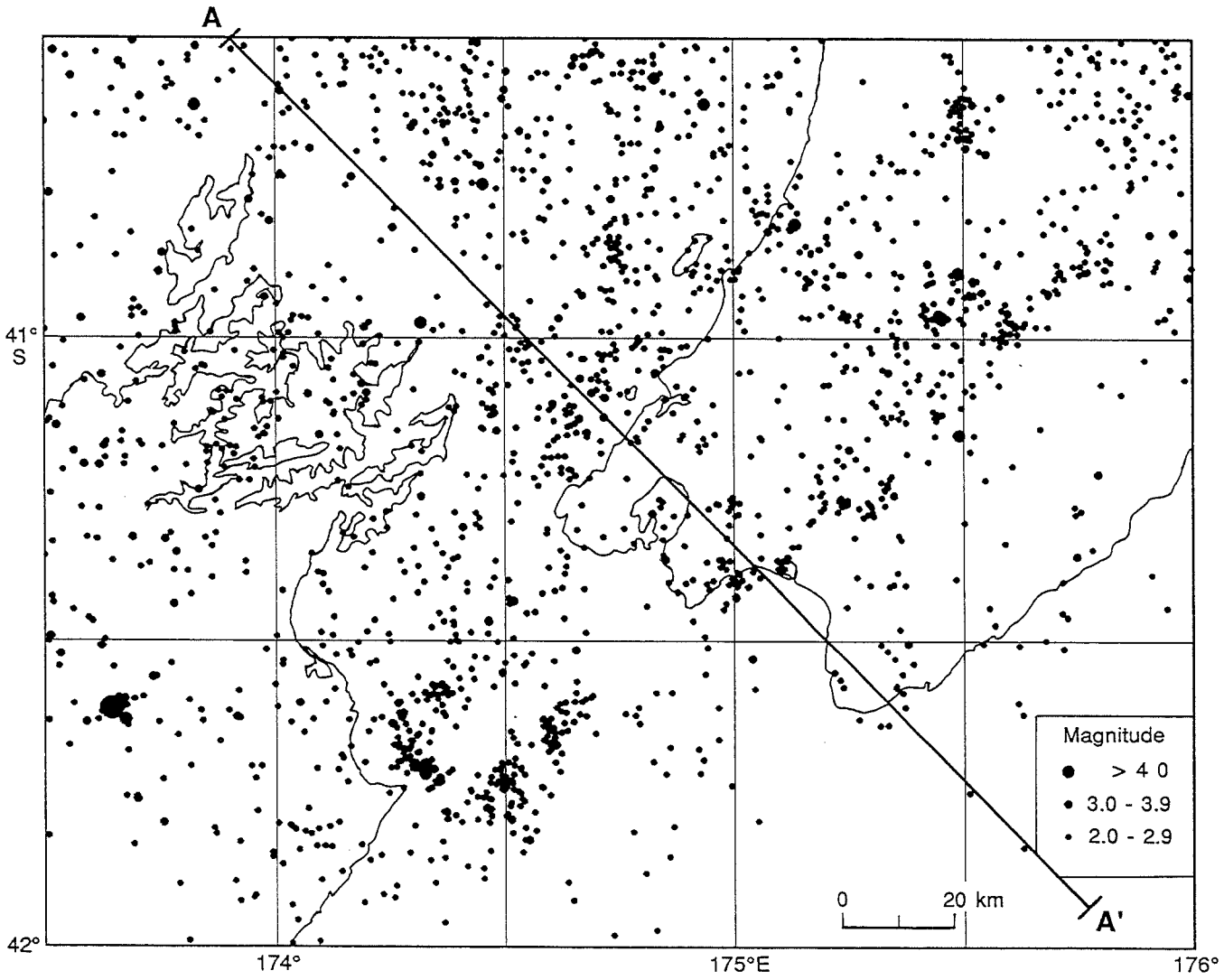
Epicentres of all earthquakes of $M_L \geq 3.5$ with focal depths less than 40 km. When several shocks have the same epicentre, the largest is shown.

REGIONAL DEEP EARTHQUAKES



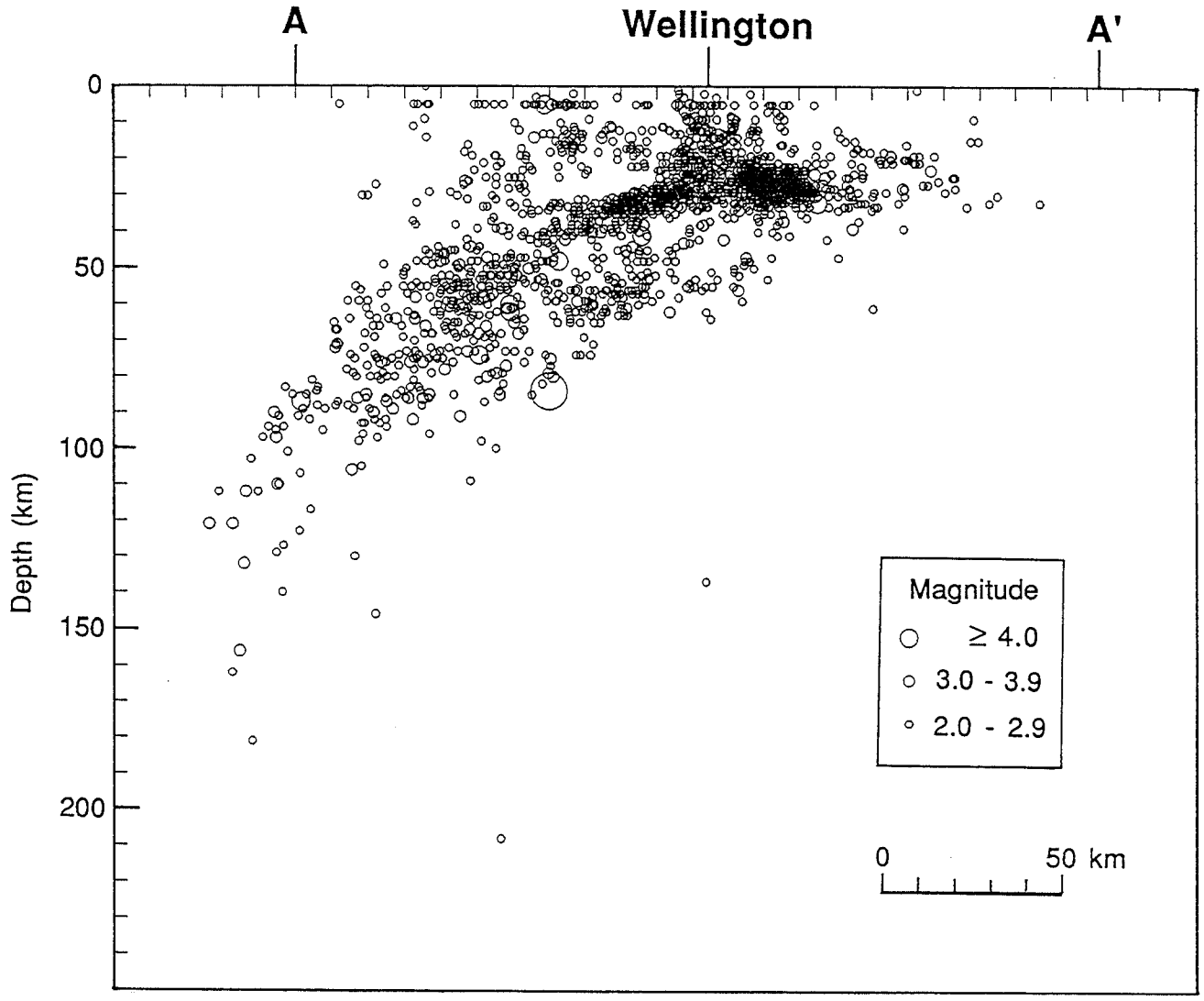
Epicentres of all earthquakes of $M_L \geq 3.5$ with focal depths of 40 km or more. When several shocks have the same epicentre, the largest is shown.

WELLINGTON AREA EPICENTRES



Epicentres of all earthquakes of $M_L \geq 2.0$ in the Wellington area. The distribution of these earthquakes in depth is shown on the next page, where the hypocentres have been projected onto a vertical plane passing through the line A-A'.

WELLINGTON HYPOCENTRE DEPTHS



In this diagram, the hypocentres of all shocks mapped on the previous page have been projected onto a vertical plane passing through the line A-A', which is roughly normal to the Pacific/Australian plate boundary.