New Zealand Seismological Report 2001
Seismological Observatory Bulletin E-185

D E Maunder (ed.)
L Cowan

GNS Science Report 2007/12
May 2007

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CONTENTS

INTRODUCTION

This issue of the Seismological Observatory Bulletin is the final publication in a series stretching back to Bulletin E-1 in 1921. The availability of its information in a more convenient form on the internet has made the continuing publication of hypocentres, instrumentation details and networks unnecessary.

Since July 2001, the GeoNet project has undertaken to upgrade, install and maintain a network of modern instruments and data centres to monitor earthquakes, volcanic unrest, land deformation, land stability, geothermal activity and tsunami in New Zealand. It is funded by the New Zealand Earthquake Commission (EQC) and is being designed, installed and operated by GNS Science. As part of its remit, all raw seismic data and earthquake hypocentres are freely available from the web site within one hour of their collection or determination. The entire catalogue of New Zealand hypocentres is available for searching and downloading from the GeoNet web site www.geonet.org.nz.

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° of Wellington, and smaller earthquakes known to have been felt in New Zealand. Many other earthquakes have however been assigned serial numbers, so the serial numbers 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Seismologists urgently requiring unpublished New Zealand data may apply to the Institute. Historical data are also available, but it is the Institute's practice to make a charge for recovery of this material unless a two-way information exchange is involved. Definitive origins for local earthquakes are usually available within some months of their occurrence.

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NEW ZEALAND SEISMICITY IN 2001

New Zealand was hit by at least six potentially damaging earthquakes in 2001, but they were either too distant from population centres or too deep to cause harm, in what can be described as an average year in terms of size, number and distribution of earthquakes.

The largest jolt was a magnitude 7.0 earthquake centred offshore in the Kermadec trench, 420 km north-east of Gisborne on August 21. Although distant, its large size and relatively shallow depth meant it was felt throughout much of the North Island and as far south as Otago in the South Island. It caused minor damage and a brief electricity blackout at Tolaga Bay, 56 km north-east of Gisborne. Lagoon seiching occurred at Chatham Island. There were many aftershocks recorded.

A magnitude 6.2 earthquake centred 20 km north of Taumarunui on the morning of May 24 was felt throughout the eastern North Island, but its impact was not severe because of its depth of 260 km.

A magnitude 6.1 earthquake on the morning of December 8 located 30 km south-west of Haast, and shallower than 12 km, was felt throughout the southern South Island, but was away from major population centres. Aftershocks occurred at the rate of up to 20 an hour during the first two days after the main shock.

During late September and early October a number of moderate-sized shallow earthquakes occurred in southern Hawke's Bay, off the coast at Porangahau. The largest of these, a magnitude 5.6 quake on September 24, was felt throughout the central and southern North Island.

Among other moderate-sized shallow earthquakes recorded in 2001 was a magnitude 5.0 event on April 4, located 30 km south-east of Blenheim. The largest of a cluster of eight earthquakes that occurred in that area on that day, it was felt from Wanganui to Marlborough.

On May 18, a magnitude 5.1 earthquake located 50 km west of Methven in Canterbury was felt on the West Coast and inland Canterbury.

A number of moderate-sized deep earthquakes also occurred during 2001. On October 15 a magnitude 5.8 quake with an epicentre close to Hastings was widely felt. A magnitude 5.0 quake on October 24, located 30 km north-west of Taupo, was felt along the east coast of the North Island.

On November 9, a magnitude 5.3 earthquake located 30 km south of Nelson was felt in the northern South Island and the Wellington region. A magnitude 5.0 event on December 8 at 6:34 am, located 30 km south-west of Gisborne, was felt in the East Cape and Hawke's Bay regions. There were also three earthquakes above magnitude 5.0 in the Bay of Plenty during the first half of the year. All of these events were too deep to cause damage.

INSTRUMENTATION IN 2001

By the end of 2001 the New Zealand network consisted of 34 digital stations (28 three-component and 6 single component), one analogue station, six regional networks and an IRIS (Incorporated Research Institutions for Seismology) system. Two of the three-component stations, Rata Peaks (RPZ) and Urewera (URZ), record data for the CTBTO (Comprehensive Test Ban Treaty Organization). As well there were 66 digitally recording strong-motion stations. We also received analogue records from stations outside New Zealand: Raoul Island (RAO), Scott Base (SBA) and Vanda (VNDA). There were 3 temporary networks operating during the year: one in the North Island operated between January and June, a small network on the Awatere fault operated during August and September and a network of seven stations recorded aftershocks of the Jackson's Bay earthquake during December.

A new kind of station was added to the National Seismograph Network in late 1998. It is intended that these stations will replace the current EARSS based stations. The new stations record six components of ground motion (three components of weak motion and three components of strong motion) and telemeter data continuously to both Gracefield and Wairakei. The data are received on a Sun workstation at each centre and earthquake events are detected and added to the rest of the data for the appropriate events. The continuous record of ground motion is also archived at Gracefield. A pilot network of four sites: Kokohu (KNZ), Tahuroa Road (TOZ), Denniston North (DSZ), and McQueen's Valley (MQZ) was installed late in 1998, subsequently expanded to Pawanui (PWZ) and Wether Hill (WHZ) in 2000/2001.

Each site consists of a vault and a small shed. The vault houses a Guralp CMG-40T broadband seismometer and a Kinemetrics EpiSensor force-balance accelerometer. The Kinemetrics EpiSensor can record strong ground shaking of up to 2g, and the Guralp CMG-40T has a bandwidth from 50 Hz to 30 or 60 seconds period. The data logger employed is a Quanterra Q4126 equipped with a GPS receiver for absolute timing, a hard disk for on-site recording, and an ethernet card so that data can be sent in real time using standard Internet protocols. The Quanterra Q4126 has a 24-bit digitiser and thus has a dynamic range of over 140 dB. The power supply for each site consists of a bank of 12 volt batteries on continuous charge using mains power. If the mains power fails the batteries have enough capacity to operate the site for about three days.

Each site has a Very Small Aperture Terminal (VSAT) satellite transceiver system comprising an indoor unit (IDU) housed inside the shed with the Quanterra data logger, and a small dish antenna (1.8 m in diameter) with an attached outdoor unit. The IDU contains an ethernet card so the Quanterra data logger plugs directly into it and sends data via satellite to both Gracefield and Wairakei.

Until new 6-component stations replace the existing stations, the main recording system is still the EARSS (Equipment for the Automatic Recording of Seismic Signals). EARSS data loggers come in two main types: a three channel system used at the standard National Network stations, and a 16-channel system used to record the telemetry networks at Rotorua, Wairakei, Chateau Observatory and Gracefield. The volcano-seismic networks run in Auckland and Taranaki by the respective regional councils also use 16-channel EARSS recorders. The three-channel EARSS system employs automatic magnification adjustment ("gain-ranging") to extend the dynamic range of the 13-bit (12-bit plus sign) digitiser giving a dynamic range of 120 dB. In contrast the 16-channel version just uses the digitisation system without the gain-ranging and thus has a dynamic range of 76 dB. However, this is sufficient as the dynamic range of telemetry networks is restricted by the current telemetry technology to less than 50 dB. A frequency domain earthquake detector is used by both three and 16-channel EARSS systems to identify possible earthquake events which are then recorded on magnetic tape or computer hard disks.

The strong-motion stations are equipped with Kinemetrics Etna recorders and Kinemetrics FBA accelerometers. Instrument specifications are as follows: accelerometer triaxial force-balance, range ±2g, natural frequency 50Hz and damping 70% of critical; recorder: 18-bit resolution at 200 sps, on-site storage capacity 48 minutes, and threshold triggering. GPS timing is provided at all stations, and data transmission is by cell phone.

INSTRUMENTAL CHANGES IN 2001

In 2001 three new Quanterra instruments were installed. The first operated at Rata Peaks (RPZ), a new station, in May and the other at Urewera (URZ) in June. The instrument at URZ operated with the existing system until December, when the EARSS system was taken out. These two stations are part of the world network of stations monitoring the Comprehensive Test Ban Treaty. The third Quanterra replaced the instrument at Wether Hill (WHZ) in April. The Mark Products L4-3D continued to operate at this site until October. The instrument at Omahuta (OUZ) did not record during 2001. The station at Erewhon (EWZ) was closed in July, and the station at Stewart Island (SIZ) was closed in October.

The upgrade of the Strong Motion Network began in October. A total of 130 instruments are to be installed over a period of 13 months. The new stations have Etna instruments with data being sent directly to Gracefield and Wairakei via cell phone.

INDEX OF STATION CODES AND POSITIONS

The number of seismograph stations has grown so much in recent years 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 National Earthquake Information Center (NEIC) and by the International Seismological Centre (ISC), but some of those for stations in the telemetered networks may not be. The coordinates for the New Zealand stations are NZGD49 on the Hayford (International) spheroid.

CODE	NAME	LATITUDE d	m	s		LONGITUDE d	m	s		ALTITUDE metres
		STANDARD NETWORK								
AXZ	Alexandra	45	16	02	S	169	19	52	E	260
BFZ	Birch Farm	40	40	54	S	176	14	46	E	318
BSZ	Bushy Park	39	47	55	S	174	55	52	E	150
BWZ	Berwen	44	32	02	S	169	53	13	E	500
DCZ	Deep Cove	45	28	04	S	167	09	15	E	20
DSZ	Denniston North	41	44	49	S	171	48	09	E	630
EWZ	Erewhon (until July)	43	30	42	S	170	51	09	E	650
FWVZ	Far West T-bar	39	15	23	S	175	33	07	E	2000
HBZ	Hicks Bay	37	35	57	S	178	18	05	E	0
KHZ	Kahutara	42	25	05	S	173	32	25	E	70
KNZ	Kokohu	39	01	17	S	177	40	25	E	0
KUZ	Kuaotunu	36	44	50	S	175	43	12	E	40
LMZ	Lake Moeraki	43	42	59.5	S	169	16	10	E	-50
LTZ	Lake Taylor	42	46	58	S	172	16	08	E	640
MLZ	Mavora Lakes	45	20	52	S	168	10	22	E	640
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	31.5	S	167	55	39	E	90
NOZ	North Gisborne	38	37	05	S	178	02	12	E	60
NRZ	Ngariki Road	39	20	15	S	173	55	59	E	250
ODZ	Otahua Downs	45	02	43	S	170	38	40	E	270
OIZ	Oio	39	02	48	S	175	23	33	E	470
PUZ	Puketiti	38	04	24	S	178	15	26	E	420
PWZ	Pawanui	40	01	47	S	176	51	43	E	65
QRZ	Quartz Range	40	49	39	S	172	31	44	E	260
RAO	Raoul Island	29	15	06	S	177	55	06	W	110
RPZ	Rata Peaks (from June)	43	43	09	S	171	03	14	E	468
SIZ	Stewart Island (until October)	46	52	30	S	168	07	59	E	60
THZ	Top House	41	45	50	S	172	54	13	E	760
TOZ	Tahuroa Road	37	43	51	S	175	30	07	E	0
TTH	Taradale Trig	39	32	29	S	176	49	34	E	120
TUZ	Tuapeka	45	57	22	S	169	37	56	E	110
URZ	Urewera	38	15	37	S	177	06	37	E	100
WEL	Wellington	41	17	10	S	174	46	06	E	122
WHZ	Wether Hill	45	53	41	S	167	56	51	E	320
WVZ	Waitaha Valley	43	04	35	S	170	44	10	E	75

CODE	NAME	LATITUDE d m s	LONGITUDE d m s	ALTITUDE metres
BROADBAND IRIS STATIONS				
RAR	Rarotonga	21 12 45 S	159 46 24 W	28
SBA	Scott Base	77 50 57 S	166 45 26 E	48
SNZO	South Karori	41 18 37 S	174 42 17 E	-10
VNDA	Vanda	77 30 50.2 S	161 50 44.2 E	-2
AUCKLAND VOLCANO-SEISMIC NETWORK				
KAAZ	Kauri Point	36 49 27 S	174 42 13 E	65
MKAZ	Moumoukai	37 06 41.1 S	175 09 59.6 E	120
MTAZ	Motutapu	36 47 17.3 S	174 54 36.2 E	60
OTAZ	Otara	36 57 04 S	174 55 29 E	140
WTAZ	Waiatarua	36 56 03.1 S	174 34 26.0 E	340
BAY OF PLENTY VOLCANO-SEISMIC NETWORK				
EDRZ	Edgecumbe	38 06 27.5 S	176 44 17 E	780
HARZ	Haroharo	38 05 28 S	176 30 07 E	740
LIRZ	Lichenstein Road	38 00 18 S	176 23 03 E	340
MARZ	Manawahe	37 59 12 S	176 40 28 E	480
PARZ	Papamoa	37 44 01 S	176 17 24 E	180
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
TARANAKI VOLCANO-SEISMIC NETWORK				
DFE	Dawson Falls	39 19 39 S	174 06 13 E	880
NEZ	North Egmont	39 16 19 S	174 05 44 E	920
NRZ	Ngariki Road	39 20 15 S	173 55 59 E	250
NWEZ	Newall Road	39 16 30 S	173 52 00 E	230
PKE	Pukeiti	39 11 44 S	173 59 14 E	485
RAEZ	Rainy Point	39 17 18 5	174 23 36 E	326
TAUPO VOLCANO-SEISMIC NETWORK				
HATZ	Hinemaiaia	38 57 32 S	176 05 31 E	492
KATZ	Kakaramea	38 58 36 S	175 41 40 E	1280
RATZ	Rangitukia	38 52 07 S	175 46 16 E	649
WATZ	Waihaha	38 42 35 S	175 43 58.5 E	520
WHTZ	Whakaroa	38 40 04 S	175 57 27 E	780

CODE	NAME	LATITUDE d m s				LONGITUDE d m s				ALTITUDE metres
		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
KAVZ	Karewarewa	39	05	55	S	175	38	45	E	1200
MGZ	Maungaku	39	00	07	S	175	32	20	E	806
NGZ	Ngauruhoe	39	10	37	S	175	36	04	E	806
TUVZ	Tukino	39	16	09	S	175	39	13	E	1410
		WELLINGTON NETWORK								
BBW	Black Birch	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	48	S	174	42	00	E	235
MTW	Mount Morrison	41	09	34	S	175	30	07	E	282
OTW	Orongorongo Tunnel	41	16	39	S	175	00	15	E	230
TCW	Tory Channel	41	12	48	S	174	16	33	E	150
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. Free period, T_o, is given in seconds for moving coil seismometers. Long-period corner, T_c, is given in seconds for force-feedback seismometers. Damping, when not listed, may be assumed to be critical.

Magnifications listed are for the period of maximum response. Response curves for Mark Products L4-C seismometers with EARSS recorders and for Guralp seismometers with Quanterra recorders are shown at the end of this section.

	Instrument	Components	T_o	T_c	Magnification
AXZ	ALEXANDRA				
	Foundation: Schist.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
BFZ	BIRCH FARM				
	Foundation: Greywacke.				
	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				
	Foundation: Greywacke.				
	Mark Products L4-C (with EARSS digital gain-ranging recorder).				
		Z	1.0		
DCZ	DEEP COVE				
	Foundation: Granite.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
DSZ	DENNISTON NORTH				
	Foundation: Upper Precambrian greywacke.				
	Guralp CMG-40T (with Quanterra Q4126 recorder).				
		ZNE		30	
	Kinemetrics EpiSensor (with Quanterra Q4126 recorder).				
		ZNE		-	
EWZ	EREWHON (until July)				
	Foundation: Triassic greywacke.				
	Mark Products L4-C (with EARSS digital gain-ranging recorder).				
		Z	1.0		
FWVZ	FAR WEST T-BAR				
	Foundation: Andesite lava.				
	Guralp CMG-40T (with Quanterra Q734 recorder).				
		ZNE		30	
HBZ	HICKS BAY				
	Foundation: Consolidated conglomerate.				
	Mark Products L4-C in borehole (with EARSS digital gain-ranging recorder).				
		Z	1.0		67 500 at 0.10s

	Instrument	Components	T_o	T_c	Magnification
KHZ	KAHUTARA				
	Foundation: Jurassic greywacke.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
KNZ	KOKOHU				
	Foundation: Miocene limestone.				
	Guralp CMG-40T (with Quanterra Q4126 recorder).				
		ZNE		30	
	Kinemetrics Episensor (with Quanterra Q4126 recorder).				
		ZNE		-	
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-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		
MLZ	MAVORA LAKES				
	Foundation: Greywacke.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
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.				
	Guralp CMG-40T (with Quanterra Q4126 recorder).				
		ZNE		30	
	Kinemetrics EpiSensor (with Quanterra Q4126 recorder).				
		ZNE		-	
MRZ	MANGATAINOKA RIVER				
	Foundation: Greywacke.				
	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		

	Instrument	Components	T_o	T_c	Magnification
NOZ	NORTH GISBORNE Foundation: Upper Miocene siltstone. Mark Products L4-C (with EARSS digital gain-ranging recorder).	Z	1.0		
NRZ	NGARIKI ROAD Foundation: Andesite. Mark Products L4-C (with EARSS digital gain-ranging recorder).	Z	1.0		
ODZ	OTAHUA DOWNS Foundation: Greywacke. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
OIZ	OIO Foundation: Tertiary sandstone. Mark Products L4-3D (with EARSS digital gain-ranging recorder).	ZNE	1.0		
PWZ	PAWANUI Foundation: Greywacke. Guralp CMG-40T (with Quanterra Q4126 recorder).	ZNE		30	
	Kinemetrics EpiSensor (with Quanterra Q4126 recorder).	ZNE		-	
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
RPZ	RATA PEAKS (from June) Foundation: Rhyolite. Guralp CMG-3TB (with Quanterra Q4126 recorder).	ZNE		30	
	Kinemetrics EpiSensor (with Quanterra Q4126 recorder).	ZNE		-	
SIZ	STEWART ISLAND (until October) Foundation: Granite. Mark Products L4-C (with EARSS digital gain-ranging recorder).	Z	1.0		

	Instrument	Components	T_o	T_c	Magnification
THZ	TOP HOUSE				
	Foundation: Permian greywacke.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
TTH	TARADALE TRIG				
	Foundation: Calcareous mudstone.				
	Mark Products L4-C (with Kinemetrics VR-1 pen-recorder in the Hawke's Bay Museum).				
		Z	1.0		
TOZ	TAHUROA ROAD				
	Foundation: Jurassic greywacke.				
	Guralp CMG-40T (with Quanterra Q4126 recorder).				
		ZNE			30
	Kinemetrics EpiSensor (with Quanterra Q4126 recorder).				
		ZNE			-
TUZ	TUAPEKA				
	Foundation: Haast schist.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
URZ	UREWERA				
	Foundation: Greywacke.				
	Until December:				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
	From May:				
	Guralp CMG-3TB (with Quanterra Q4126 recorder).				
		ZNE			30
	Kinemetrics EpiSensor (with Quanterra Q4126 recorder).				
		ZNE			-
WEL	WELLINGTON				
	Foundation: Greywacke.				
	Kinemetrics force-balance accelerometer (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
	The signal is transmitted to Gracefield by spread-spectrum radio and received on a Sun computer.				
WHZ	WETHER HILL				
	Foundation: Greywacke.				
	Until October:				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		
	From April:				
	Guralp CMG-40T (with Quanterra Q4126 recorder).				
		ZNE			30
	Kinemetrics EpiSensor (with Quanterra Q4126 recorder).				
		ZNE			-
WVZ	WAITAHA VALLEY				
	Foundation: Granite.				
	Mark Products L4-3D (with EARSS digital gain-ranging recorder).				
		ZNE	1.0		

BROADBAND IRIS STATION AND LOCAL NETWORKS

These stations are operated by the United States Geological Survey, with recorded data archived at the IRIS data centre (www.iris.edu). Data at all stations are recorded on Quanterra Q680 dataloggers. More detailed information about the Global Seismic Network (GSN) can be found at www.cr.usgs.gov.

Code	Station	Instrument	Foundation
RAR	Rarotonga	Geotech KS-36000-I borehole seismometer Streckeisen STS-1 seismometer	Basalt
SBA	Scott Base	Geotech KS-54000 borehole seismometer Guralp CMG3-T seismometer Streckeisen STS-2 seismometer	Frozen basaltic debris resting on lava flows
SNZO	South Karori	Geotech KS-36000-I BD seismometer (in 98m borehole) Guralp CMG-3ESP seismometer Kinemetrics FBA-23 strong motion sensor	Jurassic-Permian greywacke
VNDA	Vanda	Geotech KS-54000 borehole seismometer Geotech GS-21 short period vertical seismometer Geotech K53 6000I broadband 3-D seismometer recorded at Scott Base.	Granite gneiss intruded by quartz porphyry dykes

AUCKLAND VOLCANO-SEISMIC NETWORK

This network has been installed in Auckland to monitor seismic activity associated with volcanic and tectonic processes in the Auckland volcanic region and is operated by Auckland Regional Council in conjunction with GNS Science Wairakei. The instruments are single component L4-C seismometers telemetered to an EARSS digital recorder, and are also recorded on VR-1 visual recorders.

Code	Station	Component	Foundation
KAAZ	Kauri Point	Z	Miocene mudstone
MKAZ	Moumoukai	Z	Greywacke
MTAZ	Motutapu	Z	Jurassic mudstone
OTAZ	Otara	Z	Sandstone
WTAZ	Waiatarua	Z	Miocene volcaniclastics

BAY OF PLENTY VOLCANO-SEISMIC NETWORK

This network is operated by the Volcanology Programme in conjunction with the Seismological Institute and monitors seismic activity associated with volcanic, geothermal and tectonic processes in the northern portion of the Taupo Volcanic Zone.

Data from these stations are telemetered to a 16-channel EARSS at Rotorua and also Wairakei. Selected stations are also recorded on VR-1 pen-and-ink visual recorders. The seismometers are Mark Products L4-C (1 Hz) short-period vertical seismometers.

Code	Station	Component	Foundation
EDRZ	Edgecumbe	Z	Andesite
HARZ	Haroharo	Z	Rhyolite
LIRZ	Lichenstein Road	Z	Rotoiti breccia
MARZ	Manawahe	Z	Andesite
PARZ	Papamoa	Z	Andesite
PATZ	Paeroa	Z	Ignimbrite
TAZ	Tarawera	Z	Rhyolite lava
UTU	Utuhina	Z	Ignimbrite
WIZ	White Island	Z	Recent andesite

TARANAKI VOLCANO-SEISMIC NETWORK

This network is operated by the Taranaki Regional Council and GNS Science Wairakei to monitor volcanic activity around Egmont volcano. The stations are single component L4-C seismometers telemetered to a 16-channel EARSS recorder at New Plymouth. Ngariki Road (NRZ) is also part of the New Zealand Standard Seismic Network.

Code	Station	Component	Foundation
DFE	Dawson Falls	Z	Volcanic ash
NEZ	North Egmont	Z	Volcanic ash
NRZ	Ngariki Road	Z	Andesite
NWEZ	Newall Road	Z	Andesite
PKE	Pukeiti	Z	Andesite
RAEZ	Rainy Point	Z	Sandstone/mudstone

TAUPO VOLCANO-SEISMIC NETWORK

This network is operated by the Volcanology Programme in conjunction with the Seismological Institute and monitors seismic activity associated with volcanic and tectonic processes in the central part of the Taupo Volcanic Zone. Data from the stations are telemetered to a 16-channel EARSS at Wairakei. One station is usually also recorded on a VR-1 pen-and-ink visual recorder. The seismometers are all Mark Products L4-C (1 Hz) vertical-component instruments. The equipment for the network was funded by a grant from the New Zealand Lottery Grants Board's Science Research Committee.

Code	Station	Component	Foundation
HATZ	Hinemaiaia	Z	Ignimbrite
KATZ	Kakaramea	Z	Ignimbrite
RATZ	Rangitukia	Z	Ignimbrite
WATZ	Waihaha	Z	Ignimbrite
WHTZ	Whakaroa	Z	Pumice alluvium

TONGARIRO VOLCANO-SEISMIC NETWORK

This network is operated jointly by the Volcanology programme and the Seismological Institute to monitor seismic activity associated with volcanic and tectonic processes about Tongariro Volcanic Centre. The instruments at all sites are Mark Products L4-C short-period vertical seismometers and their signals are telemetered and recorded on a 16-channel EARSS at the Chateau Observatory. The signals from selected stations are also recorded on VR-1 pen-and-ink recorders.

Code	Station	Component	Foundation
CNZ	Chateau	Z	Andesitic ash
DRZ	Dome Shelter	Z	Andesite ash
KAVZ	Karewarewa	Z	Lava
MGZ	Maungaku	Z	Andesite
NGZ	Ngauruhoe	Z	Andesite lava
TUVZ	Tukino	Z	Tephra

WELLINGTON NETWORK

The stations of the Wellington network are linked by radio or land-line to the Cotton Building at Victoria University of Wellington in Kelburn. The data are continuously recorded and transmitted to Gracefield via a spread-spectrum radio link. The data are received at Gracefield on a Sun workstation where event detection takes place. The instrument at WEL is a Kinemetrics force balance accelerometer and the seismometer at Makara Radio (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.

Code	Station	Component	Foundation
BBW	Black Birch	Z	Schist
BHW	Baring Head	Z	Jurassic-Permian greywacke
BLW	Big Hill	Z	Jurassic-Permian greywacke
CAW	Cannon Point	Z	Jurassic-Permian greywacke
CCW	Cape Campbell	Z	Miocene sandstone
DIW	D'Urville Island	Z	Grandodiorite
GFW	Glenfield	Z	Jurassic-Permian greywacke
KIW	Kapiti Island	Z	Jurassic-Permian greywacke
MOW	Moikau	Z	Jurassic-Permian greywacke
MRW	Makara Radio	ZNE	Jurassic-Permian greywacke
MTW	Mount Morrison	Z	Jurassic-Permian greywacke
OTW	Orongorongo	Z	Jurassic-Permian greywacke
TCW	Tory Channel	Z	Jurassic-Permian greywacke
WEL	Wellington	ZNE	Jurassic-Permian greywacke

STRONG-MOTION STATION CODES AND POSITIONS

These strong motion instruments were installed to record ground acceleration, especially accelerations that might be strong enough to cause damage to buildings and contents. The data are used to help develop building codes and to facilitate design of special structures. The instruments at these sites are three-component Kinemetrics Etna recorders.

The data from these stations are now analysed with data from the weak-motion instruments. These station codes are not internationally recognised.

CODE	NAME	LATITUDE d	m	s		LONGITUDE d	m	s	
ARKS	Wainuiomata Arakura School	41	14	38	S	174	56	38	E
ARPS	Arnold River Power Station	42	31	32	S	171	24	28	E
AVIS	Aviemore Dam	44	39	24	S	170	21	25	E
BENS	Benmore Dam	44	33	53	S	170	11	34	E
CACS	Christchurch Canterbury Aero Club	43	29	05	S	172	31	48	E
CBGS	Christchurch Botanic Gardens	43	31	52	S	172	37	11	E
CCPS	Christchurch Police Station	43	32	04	S	172	37	56	E
CMHS	Christchurch Cashmere High School	43	34	02	S	172	37	26	E
CSHS	Castle Hill Station	43	13	42	S	171	43	24	E
DFHS	Darfield High School	43	29	29	S	172	06	07	E
DUNS	Dunedin Corstophine Substation	45	54	24	S	170	28	14	E
FTPS	Featherston School	41	07	13	S	175	19	38	E
GISS	Gisborne 2ZG	38	40	05	S	178	01	21	E
GMTS	Greymouth Telecom	42	27	03	S	171	12	37	E
HMCS	Hokitika Medical Centre	42	43	07	S	170	57	50	E
HOCS	Levin Horowhenua College	40	37	24	S	175	16	45	E
IFPS	Inchbonnie Fitzsimmons Farm	42	43	42	S	171	28	22	E
INSS	Lower Hutt GNS Science	41	14	07	S	174	55	15	E
KAFS	Kawerau Fire Station	38	05	05	S	176	42	35	E
KAPS	Auckland Kauri Point	36	49	27	S	174	42	13	E
KIKS	Kaikoura South Bay	42	25	39	S	173	40	55	E
KOKS	Kokatahi	42	53	36	S	171	08	08	E
LHES	Lower Hutt Emergency Management Office	41	12	48	S	174	54	12	E
LHRS	Lower Hutt Normandale Rock Site	41	12	23	S	174	53	35	E
LHUS	Lower Hutt Unilever	41	13	57	S	174	53	37	E
MANS	Manapouri Power Station	45	31	22	S	167	16	41	E
MAVS	Martinborough Wines Vineyard	41	12	45	S	175	27	41	E
MISS	Wellington Miramar School	41	19	00	S	174	49	06	E
MNGS	Mangaweka School	39	48	35	S	175	47	27	E
MSZS	Milford Sound	44	40	29	S	167	55	32	E
NELS	Nelson Hospital	41	17	22	S	173	16	27	E
NGHS	Napier Girls High	39	29	15	S	176	54	53	E
NMPS	Ngawihi Moana Pacific Fisheries	41	34	34	S	175	13	40	E
NNBS	Christchurch New Brighton School	43	29	50	S	172	43	04	E
NPCS	New Plymouth Civil Defence	39	03	51	S	174	04	24	E

CODE	NAME	LATITUDE d	m	s		LONGITUDE d	m	s	
OPCS	Opotiki College	38	00	57	S	177	17	20	E
ORCS	Ohakune Ruapehu College	39	25	09	S	175	24	45	E
OTKS	Otaki School	40	45	24	S	175	08	37	E
PAPS	Paraparaumu Primary School	40	54	58	S	175	00	17	E
PFAS	Porirua Free Ambulance	41	08	25	S	174	50	45	E
PGMS	Petone Municipal Building	41	13	34	S	174	52	45	E
PKIS	Pukaki Hydro	44	11	39	S	170	08	41	E
POLS	Porirua Library	41	07	59	S	174	50	20	E
POTS	Wellington Potters Association	41	16	26	S	174	46	28	E
REHS	Christchurch Resthaven	43	31	25	S	172	38	06	E
ROPS	Rotorua Police Station	38	08	17	S	176	15	15	E
RQGS	Wellington Aarque Graphics	41	17	54	S	174	46	52	E
RUAS	Ruatoki School	38	08	57	S	177	00	30	E
SPFS	Springfield Fire Station	43	20	23	S	171	55	44	E
TBCS	Tauranga Boys College	37	42	16	S	176	09	23	E
TFSS	Wellington Thorndon Fire Station	41	16	40	S	174	46	58	E
THPS	Taihape Primary School	39	40	43	S	175	48	04	E
TKAS	Tekapo A Power Station	44	00	54	S	170	27	38	E
TPPS	Taupo Police Station	38	41	17	S	176	04	02	E
TTHS	Turangi Tongariro High School	38	59	16	S	175	48	51	E
UHCS	Upper Hutt College	41	07	43	S	175	02	27	E
WAIS	Wairakei Research Centre	38	38	03	S	176	05	37	E
WCDS	Wanganui Civil Defence Store	39	56	07	S	175	02	52	E
WDPS	Woodville Police Station	40	20	24	S	175	52	11	E
WEMS	Wellington Emergency Management Office	41	16	35	S	174	46	45	E
WKHS	Whakatane High School	37	57	48	S	176	59	07	E
WNAS	Wellington International Airport (fire stn)	41	19	41	S	174	48	32	E
WNHS	Wellington High School	41	18	09	S	174	46	31	E
WNKS	Wellington Karori Normal School	41	17	11	S	174	44	31	E
WRCS	Masterton Wairarapa College	40	57	08	S	175	38	51	E
WVZS	Waitaha Valley (rock site)	43	04	34	S	170	44	12	E

TEMPORARY NETWORKS

CNIPSE (CENTRAL NORTH ISLAND PASSIVE SEISMIC EXPERIMENT) NETWORK

This network operated from January until June 2001. The codes for these stations are not internationally recognised.

CODE	NAME	LONGITUDE d	m	s		LATITUDE d	m	s	
ALLC	Allen Road	38	25	07	S	175	28	24	E
ARPC	Lake Arapuni Road	38	09	07	S	175	39	25	E
AWAC	Awanui	39	46	41	S	176	58	56	E
BGLC	Bouguer Low	38	18	22	S	175	45	28	E
BLUC	Bluff Hill	39	29	23	S	176	54	48	E
BNDC	Bennydale Mine	38	31	19	S	175	22	32	E
CREC	Crestridge	39	47	52	S	176	49	29	E
ELAC	Eland	39	19	06	S	176	44	23	E
ESKC	Esk	39	20	23	S	176	53	53	E
GREC	Greenstone	38	55	28	S	177	17	30	E
KARC	Karaitiana Farm	38	55	46	S	176	27	20	E
KIDC	Kidnappers	39	38	37	S	177	04	09	E
KIWC	Kiwitahi	38	34	25	S	175	57	24	E
KNGC	Kaingaroa Forest	38	45	37	S	176	14	52	E
KONC	Konini	39	27	36	S	176	37	31	E
KOTC	Kotare	38	53	41	S	177	31	26	E
LAHV	Home Valley Road	39	28	21	S	175	41	43	E
LATK	Three Kings Range	39	23	09	S	175	55	05	E
LBST	Black Stump Farm	39	10	01	S	176	29	37	E
LCRO	Crohane Forest	39	14	02	S	176	35	57	E
LDEN	Denley's Farm	38	29	23	S	175	47	41	E
LGDS	Glendale Station	39	16	13	S	176	59	09	E
LGLS	Glen Falls	39	06	09	S	176	45	19	E
LJAI	Jailhouse	38	36	22	S	176	45	18	E
LKOW	Te Kowhai	39	20	29	S	176	29	58	E
LLRC	Leslie Road	38	02	16	S	175	51	30	E
LMAN	Mangaohane	39	33	40	S	176	04	52	E
LMAT	Matapuna	39	40	51	S	176	17	13	E
LMAU	Maungataniwha	38	54	52	S	176	56	11	E
LMOT	Motokawa	39	35	12	S	175	50	56	E
LMOW	Moawhango Dam	39	24	31	S	175	45	12	E
LOCC	Lochinver	38	52	12	S	176	22	26	E
LOPO	Opouahi Station	39	08	41	S	176	48	02	E
LOTA	Otamapotiki	38	43	47	S	176	34	59	E
LPAP	Papakiri	39	11	58	S	176	54	04	E

CODE	NAME	LATITUDE d	m	s		LONGITUDE d	m	s	
LPEN	Pentwyn	39	33	26	S	175	37	42	E
LPIH	Pihanui	38	58	33	S	177	06	17	E
LPOR	Poronui	39	00	32	S	176	17	00	E
LRAN	Rangitikei River	39	28	39	S	176	02	16	E
LROS	Ross Road	39	02	58	S	176	57	18	E
LTAT	Tataraakina	39	02	39	S	176	36	53	E
LTIM	Timahanga	39	24	40	S	176	14	45	E
LWAI	Waiotukupuna River	38	42	32	S	177	04	24	E
LWHI	Whirinaki	38	49	58	S	176	35	16	E
LWON	Waione	39	27	51	S	175	37	08	E
LWTT	Waitata	39	32	17	S	176	23	58	E
MAHC	Mahia	39	04	58	S	177	53	05	E
MIMC	Mimiha	38	39	12	S	176	55	09	E
ONEC	Onenui	39	14	13	S	177	52	42	E
OPHC	Ophero	39	37	01	S	176	31	46	E
PKRC	Pukeroa	38	28	57	S	175	32	25	E
PLRC	Pearl Road	38	19	57	S	175	43	37	E
POHC	Pohokura	38	59	08	S	176	32	37	E
POIC	Poihipi	38	37	57	S	176	02	03	E
RAHC	Rahui	39	03	48	S	177	15	42	E
RANC	Rangitoto	39	56	19	S	176	42	23	E
ROTC	Rotopara	39	00	41	S	177	28	40	E
RTKC	Rangitaiki	38	49	23	S	176	19	11	E
S16	Tongariro River	39	14	03	S	175	46	39	E
S25	Rangipo	39	04	49	S	175	51	11	E
SCHC	Scheres farm	38	25	51	S	175	43	51	E
TAPC	Tapui A	38	49	53	S	177	08	57	E
TARC	Tara	39	40	10	S	176	43	31	E
TAUC	Tauhara	38	41	56	S	176	08	12	E
TEAC	Te Apiti	39	54	44	S	176	56	59	E
TETC	Te Tarata	38	32	00	S	175	51	58	E
TITC	Titirangi	39	50	00	S	176	33	32	E
TRUC	Taruarau River	39	30	04	S	176	14	35	E
TUIC	Tapui B	38	49	53	S	177	08	58	E
TUKC	Tukairangi Road	38	38	51	S	176	01	58	E
WAIC	Waipapa	38	22	00	S	175	38	49	E
WTAC	Waitaha	39	07	53	S	177	05	05	E
YUPC	Yup Farm	38	19	03	S	175	33	01	E

AWATERE FAULT NETWORK

This network was installed by Dr D Eberhart-Phillips (GNS Science Dunedin) to study wave-forms across the Awatere Fault. It operated from July until January 2002. The data included with the New Zealand network data were recorded at AC3A, GR1A and GR5A. The instruments were Nanometrics Orion, Mark Products L4-3D (with EARSS digital gain-ranging recorder) and Guralp CMG-40T.

The codes for these stations are not internationally recognised.

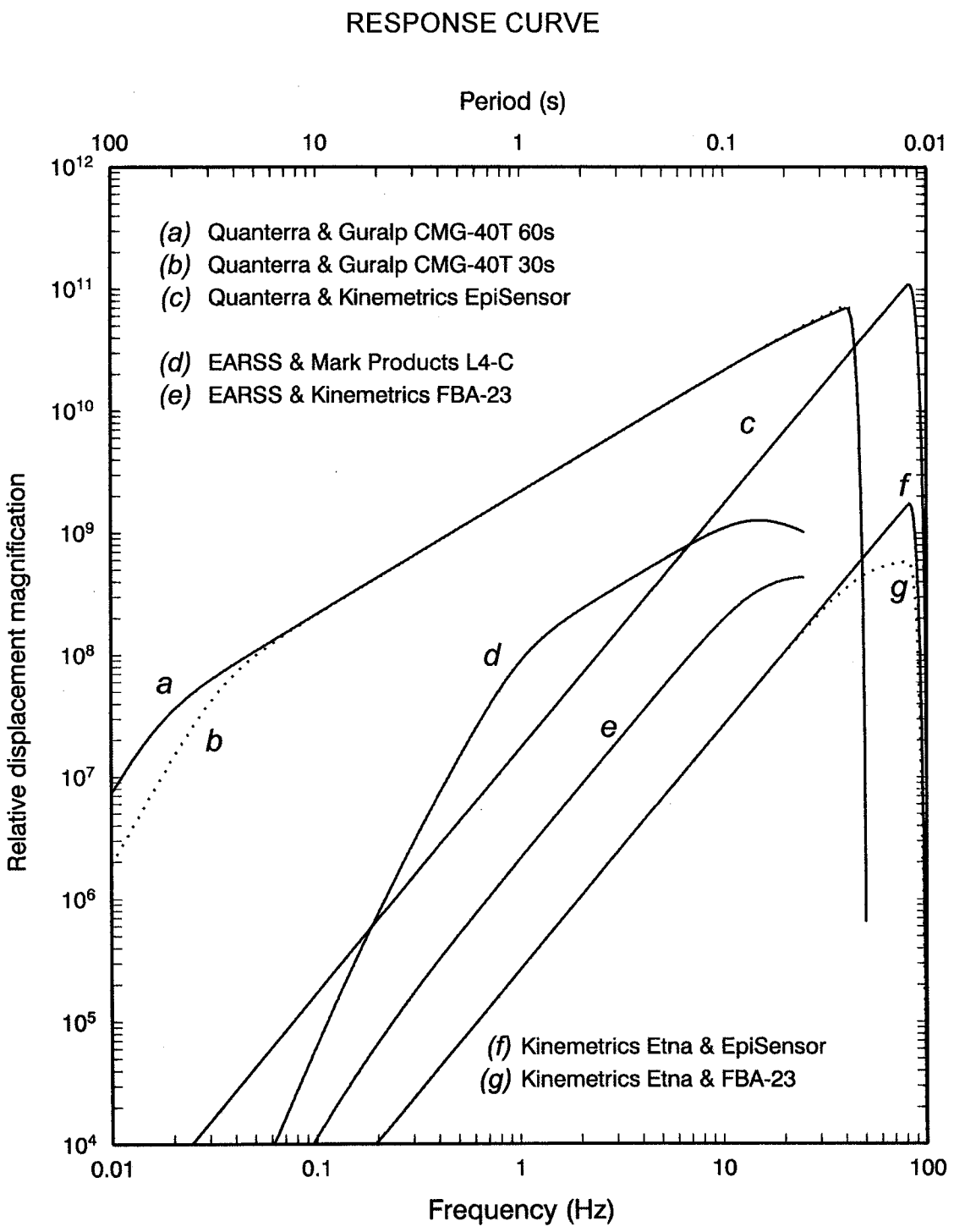
CODE	NAME	LATITUDE d m s	LONGITUDE d m s	ALTITUDE metres
AC3A	Acheron 3	42 05 21.6 S	173 09 58 E	972
GR1A	Grey River 1	41 53 50 S	173 34 57.6 E	772
GR5A	Grey River 5	41 53 40.8 S	173 35 35 E	525

JACKSON'S BAY

This network was installed to record the aftershocks of the Jackson's Bay earthquake (Dec 07 1927 UT) and operated during December. The instruments were L4-3D three component short period seismometers recorded on EARSS gain-ranging digital recorders.

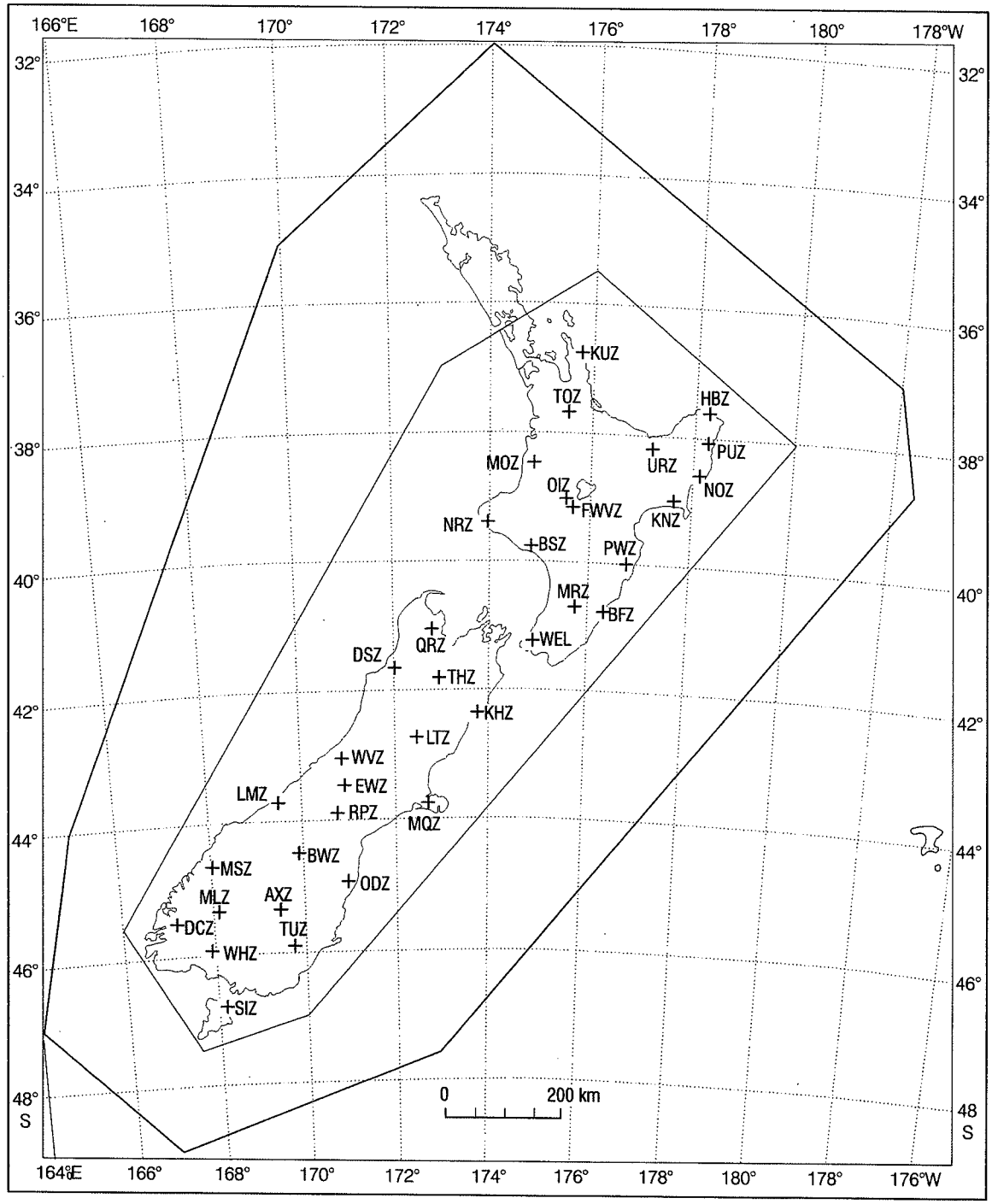
The codes for these stations are not internationally recognised.

CODE	NAME	LATITUDE d m s	LONGITUDE d m s	ALTITUDE metres
CKCJ	Cranky Creek	44 05 47 S	168 37 31 E	100
JCWJ	Jackson's Wharf	43 58 26 S	168 36 42 E	5
LICJ	Lichen Creek	44 09 54.6 S	168 46 35 E	103
LKMJ	Lake Mary	44 02 31 S	168 43 00 E	50
MPGJ	Monkey Puzzle Gorge	44 07 08 S	168 32 23 E	150
MUSJ	Musical Creek	44 06 11 S	168 43 29 E	0
ZIHA	Zillion Hill	43 53 13 S	169 02 59 E	0



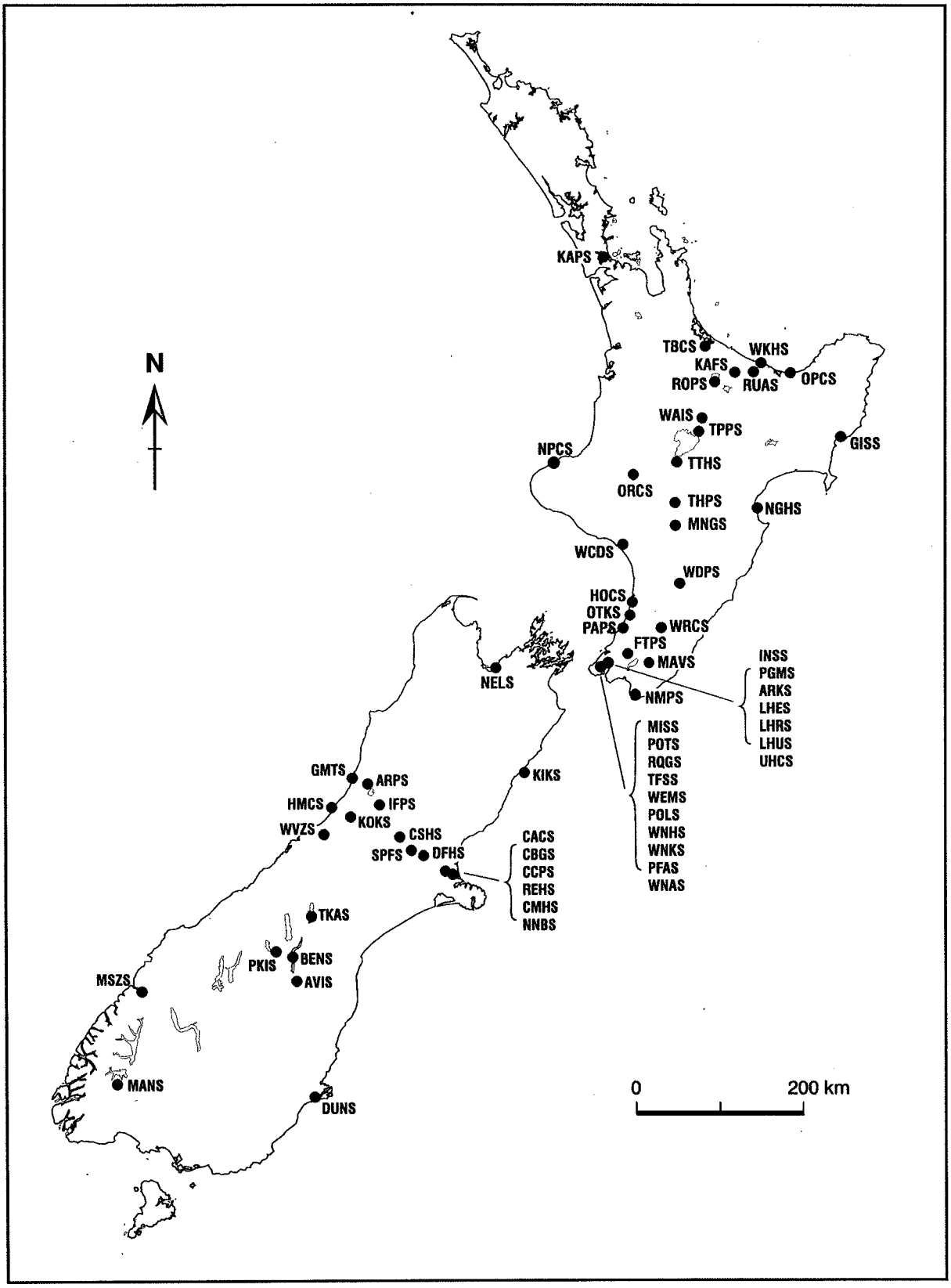
Period response curve of L4C seismometers with EARSS recorders. Guralp CMG-40T seismometers with Quanterra Q4126 recorders and Kinemetrics Etna seismometers with Episensor or FBA-23 recorders.

NATIONAL SEISMOGRAPH NETWORK



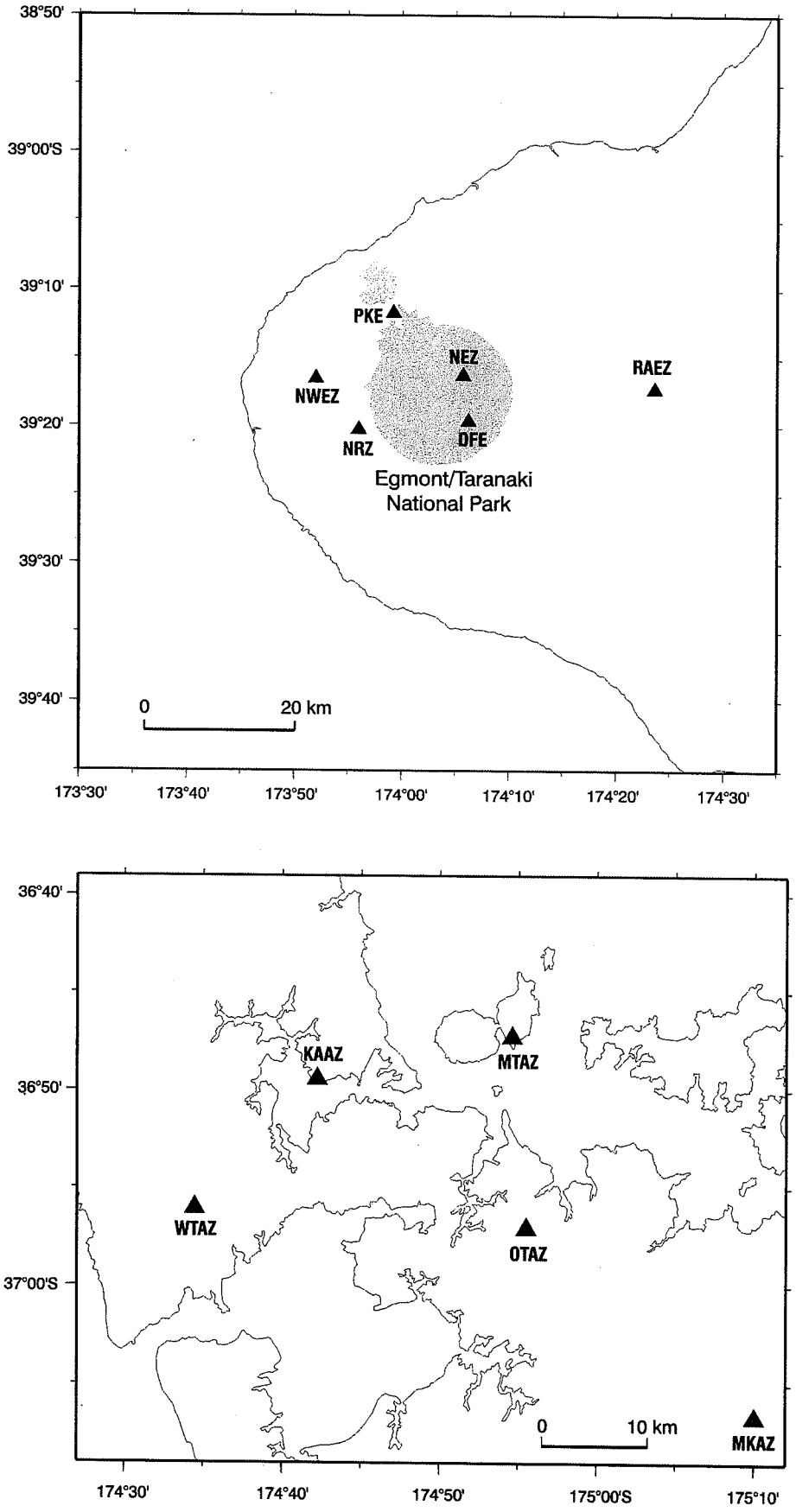
Stations of the National Seismograph Network. Some stations that are too closely spaced to show on this scale are shown instead on the map of the Volcanic Networks. The inner and outer polygons define areas where accuracy of epicentre locations is considered reliable, less reliable and inadequate.

STRONG MOTION NETWORK MAP



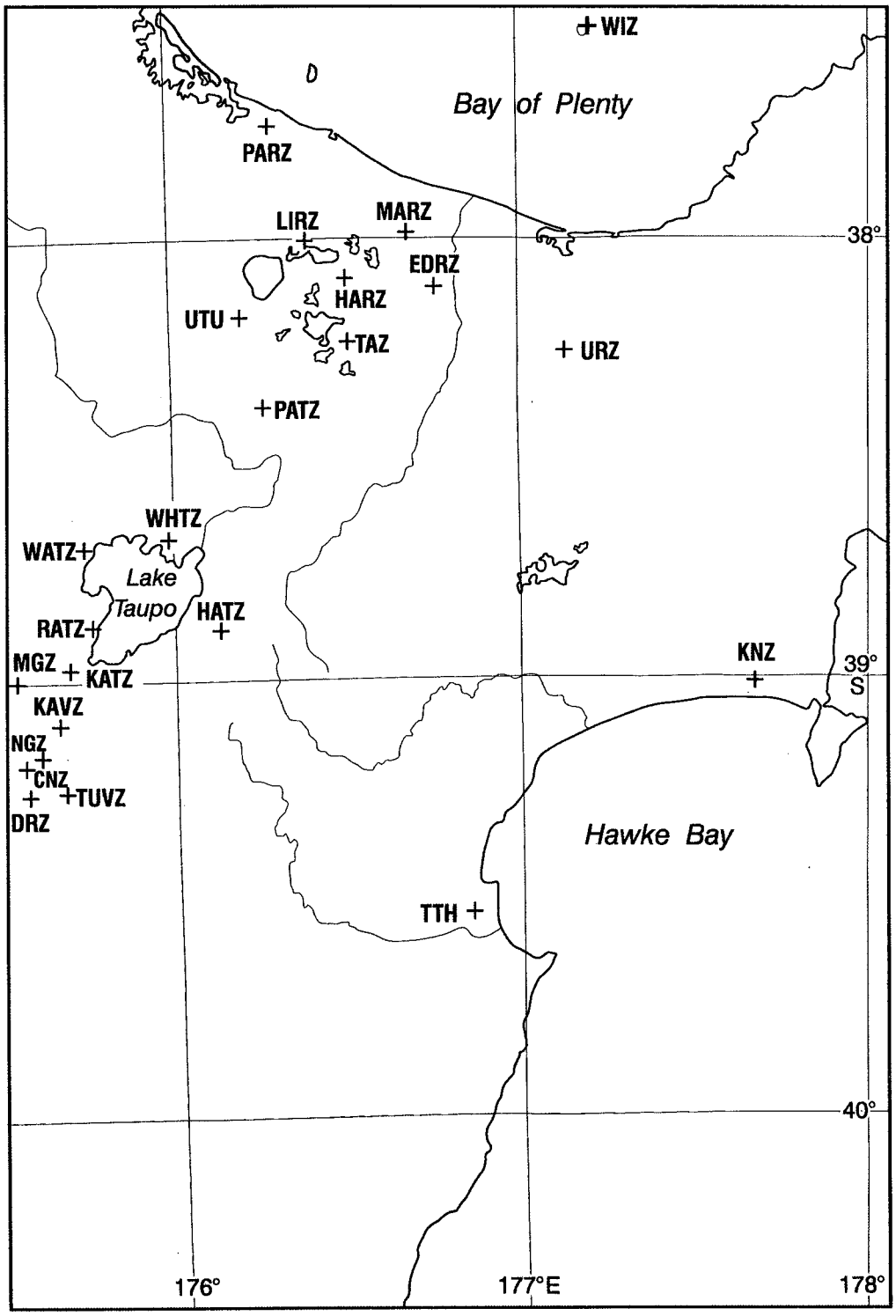
Stations of the Strong Motion Network with Kinemetrics Etna recorders. Some stations are too closely spaced to show on this scale and are indicated by a single spot.

TARANAKI AND AUCKLAND NETWORK MAPS



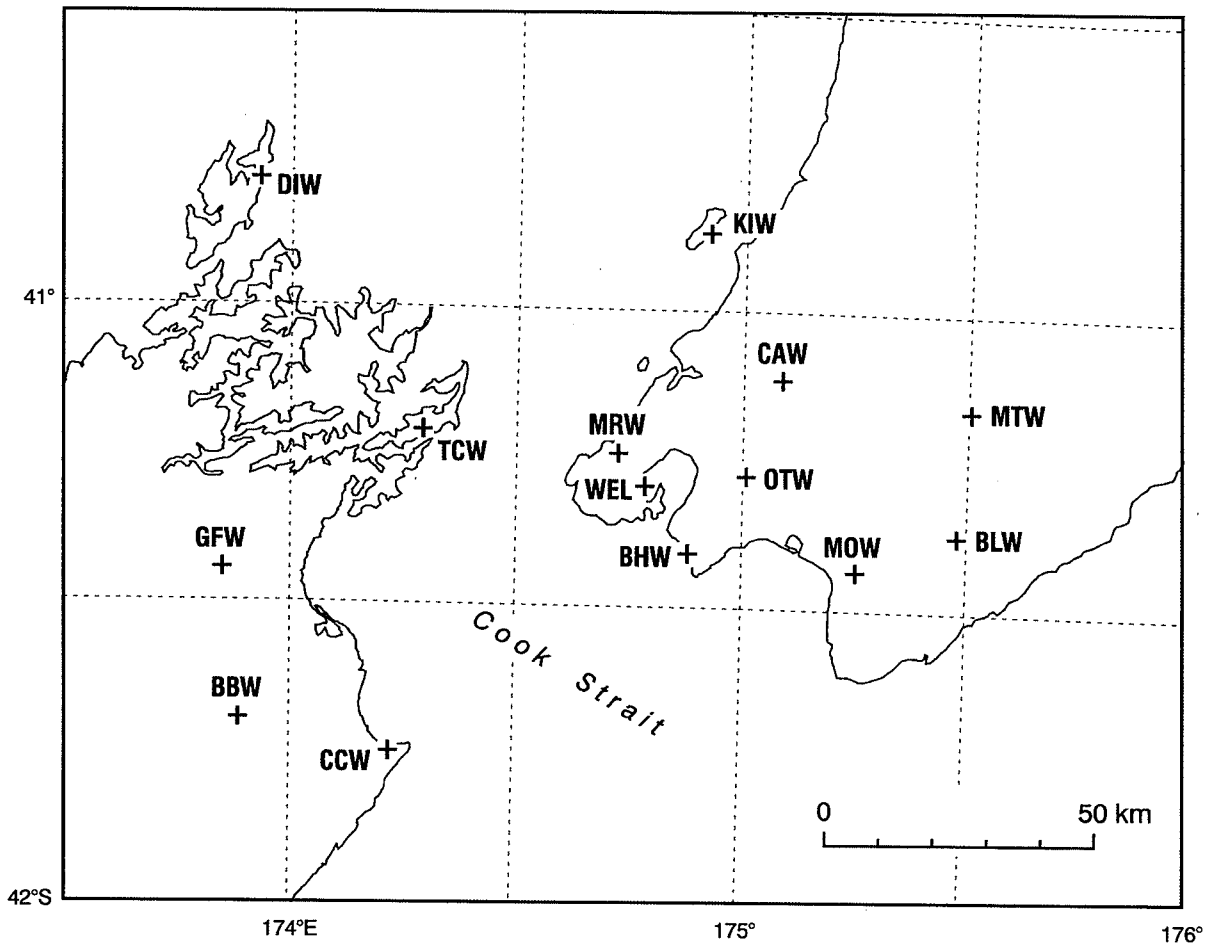
Stations of the Taranaki and Auckland Volcanic Networks.

VOLCANIC NETWORKS MAP



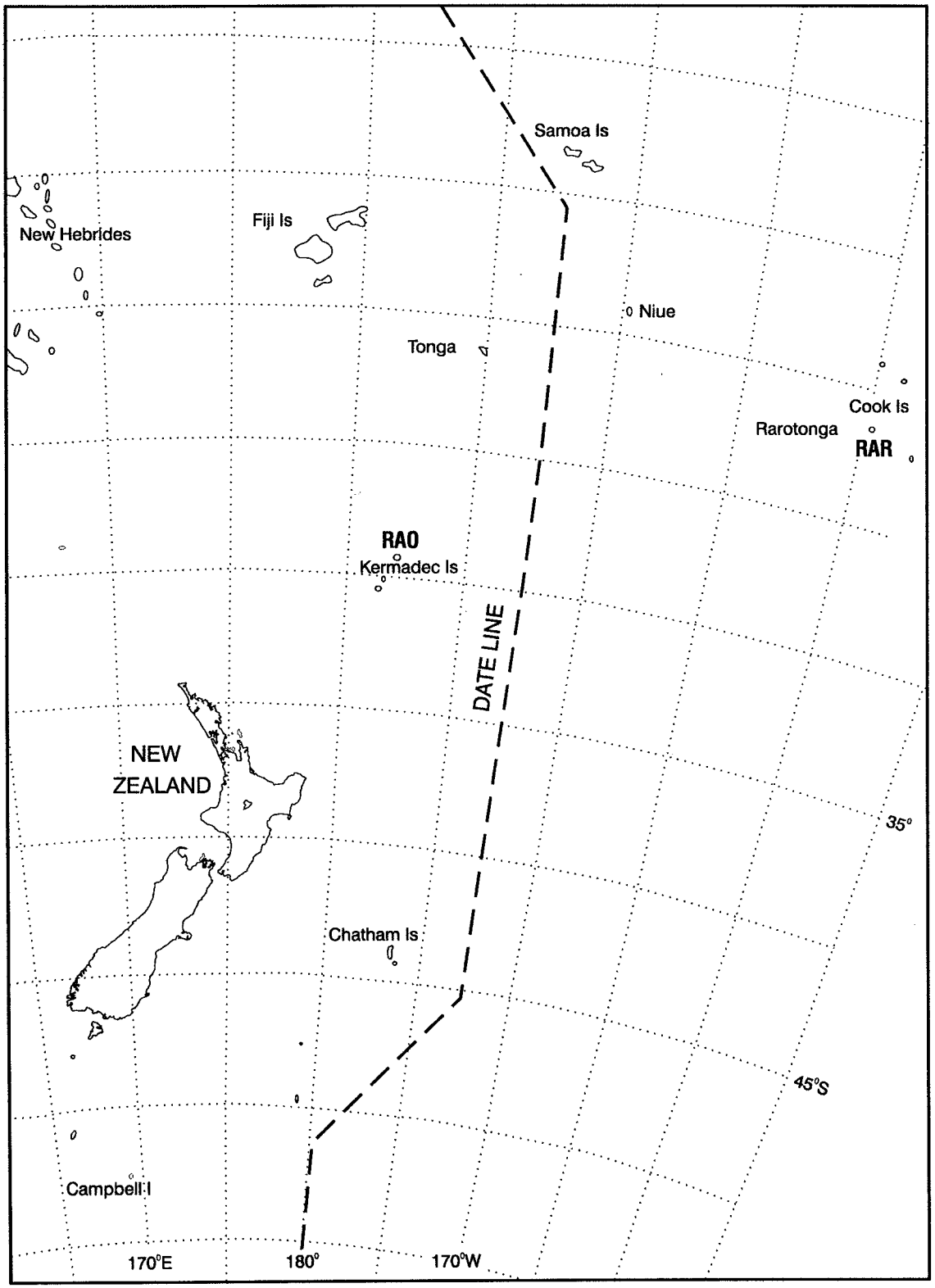
Stations of the Volcanic Networks. Other stations lying within the boundaries of the map are also shown.

WELLINGTON NETWORK MAP



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

PACIFIC ISLAND STATIONS MAP



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 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.

GeoNet seismographs are equipped with GPS receivers for timing purposes. A temperature compensated quartz crystal clock is synchronised hourly with GPS time. The GPS time is extremely precise (nanosecond accuracy) but the crystal clock may drift between synchronisations at a rate of a few milliseconds per day. Arrival times in the CUSP analysis system are expressed to a precision of one hundredth of a second; only rarely would the time be inaccurate to that degree.

At Raoul Island, 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 2001 Daylight Time was in effect until 02h NZST on March 18th, and from 02h NZST on October 7th 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 that sometimes report earthquakes to the Institute 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

DATA CATALOGUE

The entire New Zealand regional earthquake hypocentre catalogue is available from the GeoNet web site www.geonet.org.nz. It consists of approximately 200,000 events dating from 1460 to the present day, including origin times, locations and magnitudes, together with indicators of the quality of the data used. The retrieval facility allows users to restrict their interest by origin time, geographical location, focal depth, magnitude and/or quality.

The Institute can also offer a service to search for earthquakes likely to have produced Modified Mercalli intensities above a specified minimum at a particular place, and to list reports of intensities above a given minimum for events occurring in chosen felt reporting localities.

Waveforms of earthquakes recorded by digital seismographs are also archived and will be made freely available through the GeoNet web site progressively from July 2003.

CONTENT

This section contains origin times, epicentres, focal depths, and magnitudes of earthquakes in the New Zealand region that the Institute 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 23, the Institute 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 depths are 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

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 sufficient 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. Institute 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 34), 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 ($N = 2$, $\alpha = 0$), 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), Wether Hill (WHZ), 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 $\alpha = 0$.

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 33 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 WHZ, 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 1 Hz seismometers or, in the case of WEL, a Kinemetrics force-balance accelerometer (see Map, page 34). 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.

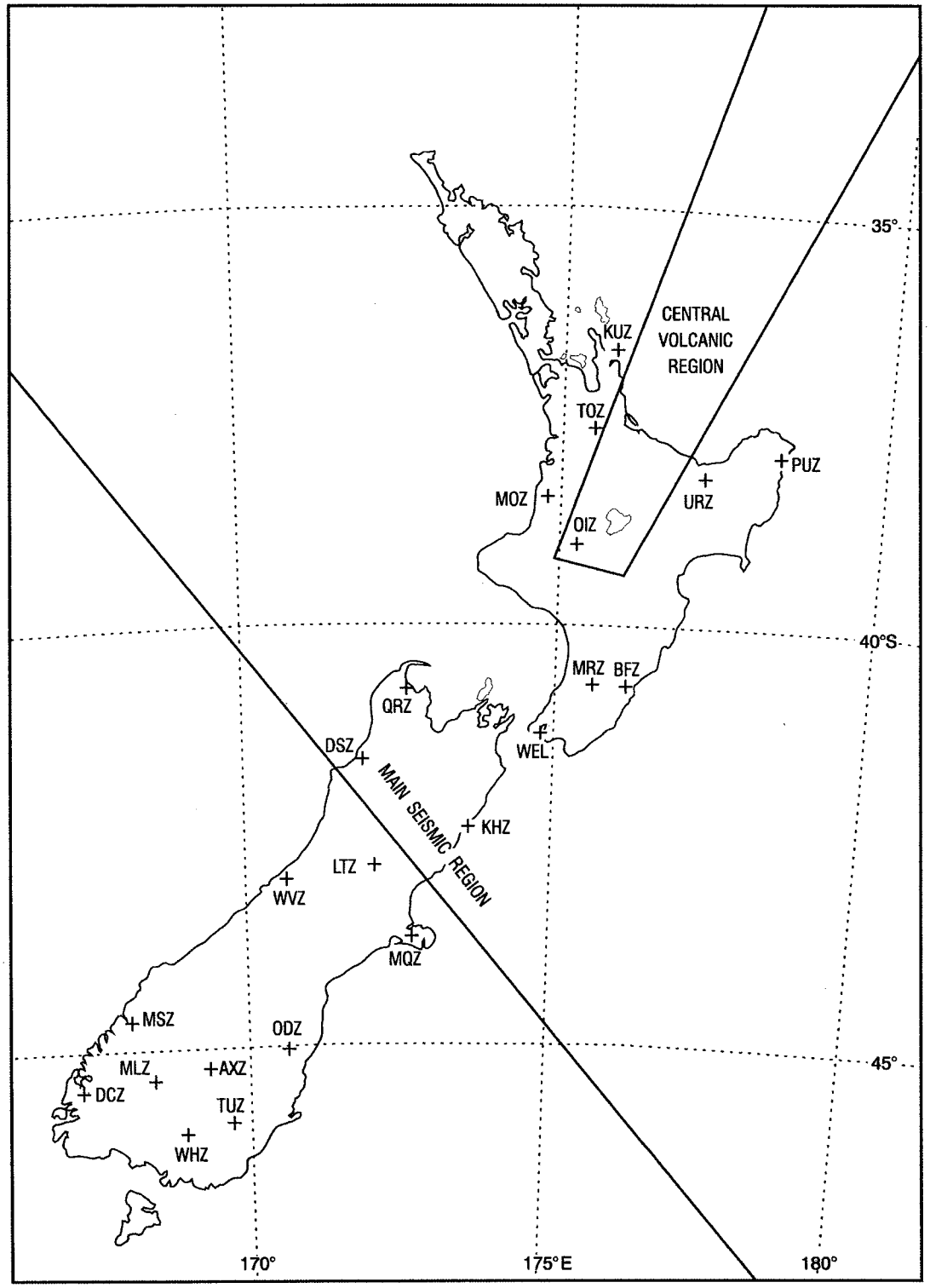
Note that there are usually two horizontal seismograms for each 3-component station, so that synthetic Wood-Anderson values tend to dominate the average magnitude.

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

Station	Component	Correction ($h \leq 33$km)	Correction (h>33km)	Correction (h>33km Fiordland Only)
AXZ	H	+0.60		+0.74
BFZ	H	+0.48	+0.42	
DCZ	H	+0.60		+0.59
DSZ	H	+0.26		+0.26
KHZ	H	+0.43	+0.33	+0.43
KUZ	H	+0.36		
LTZ	H	+0.59		+0.59
MLZ	H	+0.61		+0.36
MOZ	H	+0.36		
MQZ	H	+0.51		+0.51
MRZ	H	+0.42	+0.49	
ODZ	H	+0.45		+0.45
OIZ	H	+0.42		
PUZ	H	+0.37	+0.37	
QRZ	H	+0.35		+0.35
TOZ	H	+0.54		
TUZ	H	+0.31		+0.31
URZ	H	+0.35	+0.67	
WEL	N	0.00	0.00	
WEL	E	+0.09	+0.09	
WHZ	H	+0.19		+0.35
WVZ	H	+0.52		+0.52

H refers to horizontal seismometers, either N/S or E/W.

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.

LIST OF ORIGIN AND MAGNITUDE DETERMINATIONS

DATA FROM THE NATIONAL NETWORK

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 (in seconds), an indication of how well the adopted origin reconciles the available data with the earth models used by the location program. Formally,

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

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 Institute 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 Institute'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.

01/10
JAN 01 071140.6s 38.81S 176.23E 76km M=3.8
0.1 0.01 0.01 2
Rsd 0.2s 32ph/26stn Dmin 26km Az.gap 92°
Corr. -0.420 10M/6stn Msd 0.3 5↑ 2↓

01/11
JAN 01 071449.4s 37.96S 176.66E 145km M=3.6
0.8 0.04 0.04 6
Rsd 0.3s 9ph/6stn Dmin 52km Az.gap 276°
Corr. -0.192 3M/3stn Msd 0.1 1↑

01/14
JAN 01 115852.3s 38.06S 178.61E 41km M=4.0
0.3 0.02 0.03 3
Rsd 0.2s 14ph/10stn Dmin 31km Az.gap 243°
Corr. -0.205 14M/9stn Msd 0.2 1↑ 2↓

01/27
JAN 01 222045.2s 38.10S 178.76E 32km M=3.9
0.2 0.01 0.01 2
Rsd 0.1s 10ph/7stn Dmin 45km Az.gap 255°
Corr. -0.253 14M/11stn Msd 0.3 3↑ 2↓

01/36
JAN 02 042650.3s 35.90S 178.67E 239km M=3.9
1.5 0.36 0.19 38
Rsd 0.5s 6ph/4stn Dmin 191km Az.gap 342°
Corr. -0.217 3M/3stn Msd 0.1

01/39
JAN 02 053443.2s 39.08S 176.85E 39km M=4.5
0.2 0.01 0.01 6
Rsd 0.2s 37ph/30stn Dmin 46km Az.gap 88°
Corr. -0.074 9M/5stn Msd 0.2 6↑ 7↓
Felt Patoka (52) to Feilding (62) and Mauriceville (66).

01/42
JAN 02 062217.2s 40.59S 175.70E 38km M=4.4
0.1 0.01 0.01 2
Rsd 0.2s 41ph/32stn Dmin 13km Az.gap 89°
Corr. -0.338 8M/4stn Msd 0.2 4↑ 3↓
Felt Wanganui (57) to Levin (65).

01/55
JAN 02 145711.0s 36.08S 178.33E 33km M=3.7
0.9 0.06 0.08 R
Rsd 0.3s 7ph/4stn Dmin 169km Az.gap 337°
Corr. -0.199 4M/3stn Msd 0.3

01/76
JAN 02 222614.6s 38.26S 176.73E 167km M=3.5
0.9 0.05 0.06 7
Rsd 0.3s 12ph/10stn Dmin 34km Az.gap 220°
Corr. -0.487 6M/6stn Msd 0.2

01/112
JAN 03 152656.6s 38.59S 175.53E 160km M=3.6
0.3 0.02 0.08 2
Rsd 0.1s 14ph/12stn Dmin 46km Az.gap 328°
Corr. -0.303 3M/3stn Msd 0.3 1↑

01/146
JAN 04 152303.3s 38.01S 176.33E 159km M=3.6
0.2 0.02 0.01 2
Rsd 0.1s 12ph/9stn Dmin 74km Az.gap 224°
Corr. -0.713 8M/8stn Msd 0.2

01/147
JAN 04 154652.8s 38.10S 178.82E 32km M=4.8
0.3 0.02 0.02 2
Rsd 0.1s 13ph/10stn Dmin 50km Az.gap 257°
Corr. -0.220 30M/16stn Msd 0.2 8↑ 5↓

01/150
JAN 04 171310.1s 38.66S 175.95E 6km M=2.0
0.1 0.02 0.01 1
Rsd 0.2s 13ph/9stn Dmin 1km Az.gap 171°
Corr. -0.636 6M/6stn Msd 0.3 1↓
Felt Taupo (41).

01/160
JAN 04 200958.3s 45.07S 167.41E 88km M=4.0
0.3 0.02 0.02 3
Rsd 0.2s 15ph/9stn Dmin 48km Az.gap 199°
Corr. -0.171 11M/6stn Msd 0.2 4↑ 1↓

01/177
JAN 05 053045.1s 38.47S 175.78E 179km M=4.1
0.5 0.04 0.02 4
Rsd 0.2s 16ph/11stn Dmin 63km Az.gap 172°
Corr. -0.068 10M/8stn Msd 0.2 1↑

01/181
JAN 05 081150.9s 38.06S 176.14E 152km M=3.6
0.2 0.02 0.01 2
Rsd 0.1s 13ph/9stn Dmin 87km Az.gap 224°
Corr. -0.724 8M/8stn Msd 0.2

01/182
JAN 05 082252.0s 38.63S 175.57E 173km M=3.7
0.5 0.04 0.03 4
Rsd 0.2s 17ph/12stn Dmin 41km Az.gap 144°
Corr. -0.424 8M/8stn Msd 0.2 1↑

01/199
JAN 05 162635.4s 43.12S 173.51E 33km M=3.5
0.2 0.01 0.01 R
Rsd 0.1s 21ph/14stn Dmin 96km Az.gap 183°
Corr. -0.499 9M/5stn Msd 0.3 2↑ 2↓

01/200
JAN 05 164709.8s 43.12S 173.51E 33km M=3.5
0.2 0.01 0.01 R
Rsd 0.1s 20ph/14stn Dmin 95km Az.gap 183°
Corr. -0.467 10M/5stn Msd 0.2 1↑ 2↓

01/201
JAN 05 170439.8s 38.67S 175.32E 219km M=4.1
0.5 0.05 0.03 4
Rsd 0.3s 22ph/16stn Dmin 42km Az.gap 136°
Corr. -0.316 11M/9stn Msd 0.3 3↑ 2↓

01/239
JAN 06 092711.9s 38.09S 178.80E 33km M=4.0
0.3 0.02 0.02 R
Rsd 0.2s 11ph/8stn Dmin 48km Az.gap 256°
Corr. 0.287 28M/23stn Msd 0.2 1↑ 2↓

01/262
JAN 06 191611.6s 40.54S 173.39E 151km M=3.8
0.4 0.01 0.01 4
Rsd 0.2s 34ph/27stn Dmin 54km Az.gap 130°
Corr. -0.034 9M/8stn Msd 0.3 5↑ 1↓

01/305
JAN 07 213839.8s 40.50S 173.25E 176km M=3.7
0.4 0.02 0.02 3
Rsd 0.2s 25ph/18stn Dmin 66km Az.gap 152°
Corr. -0.366 7M/7stn Msd 0.2 2↑ 1↓

01/313
JAN 08 035920.8s 38.62S 176.12E 8km M=2.4
0.4 0.02 0.02 2
Rsd 0.2s 10ph/6stn Dmin 3km Az.gap 313°
Corr. 0.129 4M/4stn Msd 0.5 1↑ 2↓
Felt Wairakei (41).

01/327
JAN 08 133252.4s 37.45S 177.20E 152km M=3.6
0.5 0.03 0.03 6
Rsd 0.3s 12ph/8stn Dmin 90km Az.gap 220°
Corr. -0.414 6M/6stn Msd 0.2

01/331
JAN 08 143524.4s 38.00S 176.64E 135km M=3.9
0.2 0.01 0.01 2
Rsd 0.2s 23ph/19stn Dmin 3km Az.gap 74°
Corr. -0.331 13M/9stn Msd 0.2 1↑

01/339
JAN 08 180526.9s 42.90S 173.94E 33km M=3.6
0.2 0.02 0.02 R
Rsd 0.2s 21ph/15stn Dmin 132km Az.gap 193°
Corr. -0.755 22M/18stn Msd 0.2 3↑ 1↓

01/340
JAN 08 191801.4s 38.99S 178.74E 22km M=3.7
0.8 0.03 0.03 5
Rsd 0.3s 14ph/11stn Dmin 92km Az.gap 236°
Corr. -0.644 20M/14stn Msd 0.3 1↓

01/343
JAN 09 004828.4s 37.76S 179.65E 12km M=3.7
0.5 0.03 0.03 R
Rsd 0.2s 7ph/5stn Dmin 120km Az.gap 312°
Corr. 0.078 6M/4stn Msd 0.3

01/370
JAN 09 161616.4s 45.16S 167.40E 102km M=3.8
0.4 0.03 0.03 3
Rsd 0.2s 12ph/7stn Dmin 65km Az.gap 252°
Corr. -0.469 9M/5stn Msd 0.2 2↑ 2↓

01/381
JAN 09 230930.0s 38.09S 175.90E 174km M=3.6
0.5 0.03 0.03 5
Rsd 0.2s 11ph/8stn Dmin 106km Az.gap 255°
Corr. -0.492 6M/6stn Msd 0.2 1↓

01/397
JAN 10 064446.5s 43.18S 171.05E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.2s 13ph/9stn Dmin 28km Az.gap 86°
Corr. 0.043 10M/5stn Msd 0.3 1↑ 3↓

01/404
JAN 10 101154.9s 39.74S 174.18E 185km M=3.9
0.4 0.01 0.02 4
Rsd 0.3s 39ph/30stn Dmin 46km Az.gap 103°
Corr. -0.172 10M/9stn Msd 0.3 1↑

01/407
JAN 10 103753.8s 38.46S 175.33E 259km M=3.6
0.6 0.05 0.07 8
Rsd 0.3s 18ph/14stn Dmin 157km Az.gap 221°
Corr. -0.834 6M/6stn Msd 0.2
Poor station coverage.

01/429
JAN 11 051152.3s 40.36S 173.37E 161km M=4.3
0.3 0.01 0.01 3
Rsd 0.2s 36ph/29stn Dmin 68km Az.gap 146°
Corr. -0.035 14M/9stn Msd 0.3 4↑ 6↓

01/435
JAN 11 073921.0s 39.54S 174.22E 185km M=3.6
0.7 0.02 0.03 7
Rsd 0.3s 20ph/16stn Dmin 67km Az.gap 159°
Corr. -0.257 5M/5stn Msd 0.2 1↓

01/445
JAN 11 140112.2s 37.76S 176.57E 143km M=3.6
0.3 0.03 0.02 3
Rsd 0.2s 10ph/7stn Dmin 73km Az.gap 231°
Corr. -0.634 5M/5stn Msd 0.1 1↓

01/446
JAN 11 151655.2s 38.36S 175.84E 176km M=3.8
0.4 0.02 0.02 3
Rsd 0.2s 15ph/10stn Dmin 76km Az.gap 186°
Corr. 0.206 9M/7stn Msd 0.3 1↑ 2↓

01/454
JAN 11 204111.8s 38.29S 177.04E 52km M=3.7
0.1 0.01 0.01 2
Rsd 0.2s 20ph/15stn Dmin 7km Az.gap 176°
Corr. -0.657 9M/7stn Msd 0.2 3↑ 1↓

01/457
JAN 11 215735.9s 38.62S 175.95E 118km M=3.6
0.4 0.02 0.01 4
Rsd 0.3s 18ph/14stn Dmin 56km Az.gap 177°
Corr. -0.202 7M/7stn Msd 0.3 1↑ 2↓

01/493
JAN 12 210957.7s 38.29S 176.38E 5km M=3.5
0.1 0.00 0.01 R
Rsd 0.2s 20ph/15stn Dmin 13km Az.gap 69°
Corr. -0.371 17M/9stn Msd 0.2 1↑
Felt Waimungu district (33).

01/535
JAN 13 163101.6s 35.57S 178.52E 187km M=4.0
0.7 0.06 0.13 12
Rsd 0.2s 13ph/10stn Dmin 226km Az.gap 334°
Corr. -0.600 4M/4stn Msd 0.2

01/540
JAN 13 175323.9s 41.26S 174.86E 25km M=3.4
0.1 0.01 0.01 1
Rsd 0.2s 20ph/16stn Dmin 8km Az.gap 63°
Corr. -0.294 12M/9stn Msd 0.2 1↑ 4↓
Felt Tawa (68).

01/547
JAN 13 195157.9s 40.20S 174.03E 110km M=3.7
0.4 0.01 0.01 5
Rsd 0.3s 30ph/25stn Dmin 67km Az.gap 111°
Corr. -0.024 6M/6stn Msd 0.3 1↓

01/557
JAN 14 034015.3s 40.84S 174.61E 70km M=3.7
0.1 0.01 0.01 3
Rsd 0.2s 45ph/34stn Dmin 26km Az.gap 66°
Corr. -0.204 12M/8stn Msd 0.2 4↑ 2↓

01/567
JAN 14 114028.2s 36.89S 176.80E 249km M=4.5
0.3 0.03 0.03 4
Rsd 0.3s 38ph/27stn Dmin 154km Az.gap 262°
Corr. -0.322 16M/11stn Msd 0.3 1↑ 2↓

01/572
JAN 14 132612.8s 37.99S 175.91E 193km M=3.6
0.3 0.03 0.02 3
Rsd 0.2s 21ph/18stn Dmin 91km Az.gap 235°
Corr. -0.236 3M/3stn Msd 0.2 1↑

01/579
JAN 14 165509.7s 39.30S 177.99E 27km M=3.8
0.1 0.01 0.01 1
Rsd 0.2s 56ph/32stn Dmin 12km Az.gap 213°
Corr. 0.151 32M/16stn Msd 0.3 6↑ 1↓

01/592
JAN 15 000855.9s 39.61S 174.21E 199km M=4.2
0.4 0.01 0.02 3
Rsd 0.2s 51ph/37stn Dmin 65km Az.gap 157°
Corr. -0.421 12M/10stn Msd 0.3 4↑ 5↓

01/606
JAN 15 093900.2s 45.14S 167.24E 66km M=3.9
0.2 0.02 0.01 2
Rsd 0.1s 11ph/7stn Dmin 37km Az.gap 213°
Corr. -0.072 9M/6stn Msd 0.3 2↑ 1↓

01/625
JAN 16 031407.0s 38.00S 176.31E 146km M=3.7
0.4 0.03 0.03 3
Rsd 0.2s 22ph/15stn Dmin 76km Az.gap 281°
Corr. 0.046 2M/2stn Msd 0.0 1↑

01/627
JAN 16 051344.7s 36.32S 179.92W 33km M=3.7
0.6 0.08 0.06 R
Rsd 0.2s 9ph/7stn Dmin 213km Az.gap 342°
Corr. -0.755 2M/2stn Msd 0.2

01/634
JAN 16 095054.4s 38.35S 179.11E 25km M=3.9
0.2 0.01 0.01 2
Rsd 0.1s 36ph/26stn Dmin 80km Az.gap 261°
Corr. -0.106 33M/22stn Msd 0.3 1↑ 1↓

01/637
JAN 16 102055.4s 36.48S 179.73W 33km M=4.1
0.3 0.03 0.04 R
Rsd 0.1s 13ph/9stn Dmin 215km Az.gap 346°
Corr. -0.817 9M/6stn Msd 0.2

01/639
JAN 16 115315.9s 40.58S 174.09E 80km M=3.7
0.3 0.01 0.01 5
Rsd 0.2s 40ph/35stn Dmin 29km Az.gap 94°
Corr. 0.129 10M/7stn Msd 0.3 7↑ 1↓

01/640
JAN 16 120431.7s 44.95S 167.51E 62km M=3.6
0.2 0.02 0.01 4
Rsd 0.2s 12ph/8stn Dmin 63km Az.gap 200°
Corr. -0.323 16M/10stn Msd 0.1 1↑ 2↓

01/642
JAN 16 123305.9s 43.14S 173.23E 30km M=3.5
0.3 0.01 0.01 4
Rsd 0.2s 16ph/10stn Dmin 79km Az.gap 172°
Corr. -0.170 13M/10stn Msd 0.2 2↑ 1↓

01/654
JAN 16 185357.8s 37.42S 178.39E 52km M=3.9
0.5 0.02 0.02 4
Rsd 0.2s 17ph/11stn Dmin 22km Az.gap 318°
Corr. -0.210 6M/3stn Msd 0.2 2↑ 1↓

01/668
JAN 17 050257.3s 38.98S 174.99E 184km M=4.3
0.3 0.02 0.01 3
Rsd 0.3s 65ph/42stn Dmin 48km Az.gap 92°
Corr. 0.093 9M/5stn Msd 0.2 10↑ 21↓

01/679
JAN 17 075207.8s 37.79S 177.54E 54km M=3.9
0.2 0.01 0.01 3
Rsd 0.2s 33ph/27stn Dmin 43km Az.gap 120°
Corr. 0.196 9M/6stn Msd 0.1 1↓

01/681
JAN 17 085307.1s 37.16S 176.52E 239km M=3.6
0.3 0.04 0.04 3
Rsd 0.1s 22ph/21stn Dmin 133km Az.gap 263°
Corr. -0.853 1M/1stn Msd N.D. 1↑

01/685
JAN 17 095915.3s 38.43S 175.86E 174km M=4.2
0.2 0.01 0.01 2
Rsd 0.3s 84ph/57stn Dmin 9km Az.gap 96°
Corr. 0.267 8M/4stn Msd 0.1 2↑

01/694
JAN 17 154701.7s 38.75S 176.15E 86km M=3.6
0.2 0.01 0.01 1
Rsd 0.3s 58ph/38stn Dmin 8km Az.gap 133°
Corr. -0.093 6M/6stn Msd 0.2 18↑ 2↓

01/722
JAN 18 011803.0s 37.75S 178.90E 24km M=3.9
0.4 0.02 0.02 2
Rsd 0.2s 20ph/17stn Dmin 55km Az.gap 277°
Corr. -0.040 22M/12stn Msd 0.2

01/747
JAN 18 120741.6s 36.78S 178.97W 33km M=4.4
0.3 0.03 0.02 R
Rsd 0.1s 18ph/12stn Dmin 259km Az.gap 328°
Corr. -0.378 19M/12stn Msd 0.2

01/758
JAN 18 153238.5s 45.10S 167.46E 116km M=3.7
0.5 0.04 0.02 4
Rsd 0.3s 12ph/7stn Dmin 47km Az.gap 208°
Corr. -0.195 13M/8stn Msd 0.2 2↑ 2↓

01/767
JAN 18 180857.1s 45.07S 167.47E 92km M=3.5
0.4 0.03 0.02 4
Rsd 0.3s 12ph/7stn Dmin 51km Az.gap 223°
Corr. -0.191 12M/7stn Msd 0.1 1↑ 3↓

01/770
JAN 18 204302.2s 41.28S 172.61E 194km M=3.5
0.4 0.03 0.02 3
Rsd 0.3s 22ph/15stn Dmin 51km Az.gap 120°
Corr. -0.381 4M/4stn Msd 0.3 1↑

01/794
JAN 19 065423.4s 43.64S 169.68E 5km M=4.0
0.1 0.01 0.01 R
Rsd 0.1s 15ph/10stn Dmin 35km Az.gap 143°
Corr. -0.444 17M/9stn Msd 0.2 1↑ 2↓

01/824
JAN 19 180954.3s 35.42S 178.58E 223km M=4.5
0.4 0.03 0.02 4
Rsd 0.1s 39ph/35stn Dmin 243km Az.gap 306°
Corr. 0.656 7M/7stn Msd 0.1 1↑ 2↓

01/841
JAN 19 234219.2s 38.13S 176.26E 2km M=2.5
0.1 0.01 0.01 R
Rsd 0.2s 11ph/7stn Dmin 1km Az.gap 155°
Corr. -0.714 6M/6stn Msd 0.2 1↓
Felt Rotorua (33). First of 21 events felt over 3 hours.

01/853
JAN 20 000859.4s 38.13S 176.26E 3km M=2.8
0.1 0.00 0.00 1
Rsd 0.2s 28ph/17stn Dmin 1km Az.gap 61°
Corr. -0.268 14M/11stn Msd 0.3 1↑
Felt Rotorua (33).

01/854
JAN 20 001136.3s 38.13S 176.26E 2km M=2.7
0.1 0.01 0.00 R
Rsd 0.2s 21ph/14stn Dmin 1km Az.gap 95°
Corr. -0.418 11M/9stn Msd 0.3 2↑ 1↓
Felt Rotorua (33).

01/855
JAN 20 001437.3s 38.13S 176.26E 2km M=2.7
0.0 0.00 0.00 R
Rsd 0.1s 11ph/9stn Dmin 1km Az.gap 111°
Corr. -0.330 6M/6stn Msd 0.1
Felt Rotorua (33).

01/857
JAN 20 001859.2s 38.13S 176.25E 2km M=2.4
0.0 0.00 0.00 R
Rsd 0.1s 15ph/11stn Dmin 1km Az.gap 113°
Corr. -0.247 8M/7stn Msd 0.3 1↑
Felt Rotorua (33).

01/864
JAN 20 002338.8s 38.13S 176.25E 2km M=2.8
0.1 0.01 0.00 R
Rsd 0.2s 14ph/9stn Dmin 1km Az.gap 97°
Corr. 0.248 8M/7stn Msd 0.3 1↑
Felt Rotorua (33).

01/872
JAN 20 003304.6s 38.13S 176.27E 2km M=2.5
0.1 0.01 0.00 R
Rsd 0.1s 9ph/7stn Dmin 1km Az.gap 144°
Corr. -0.635 6M/6stn Msd 0.2
Felt Rotorua (33).

01/876
JAN 20 003748.6s 38.13S 176.25E 2km M=2.8
0.1 0.01 0.00 0
Rsd 0.2s 15ph/11stn Dmin 1km Az.gap 98°
Corr. -0.012 13M/10stn Msd 0.3 1↑
Felt Rotorua (33).

01/878
JAN 20 003901.6s 38.13S 176.25E 2km M=2.4
0.3 0.01 0.02 R
Rsd 0.3s 8ph/6stn Dmin 1km Az.gap 176°
Corr. -0.624 6M/6stn Msd 0.2
Felt Rotorua (33).

01/881
JAN 20 004148.7s 38.13S 176.27E 2km M=2.5
0.0 0.00 0.00 R
Rsd 0.1s 10ph/7stn Dmin 1km Az.gap 149°
Corr. -0.669 7M/7stn Msd 0.3
Felt Rotorua (33).

01/883
JAN 20 004433.2s 38.12S 176.26E 2km M=2.7
0.1 0.01 0.01 R
Rsd 0.2s 13ph/9stn Dmin 2km Az.gap 96°
Corr. -0.691 7M/7stn Msd 0.3
Felt Rotorua (33).

01/884
JAN 20 004543.8s 38.12S 176.26E 2km M=1.9
0.2 0.01 0.01 R
Rsd 0.2s 7ph/5stn Dmin 2km Az.gap 176°
Corr. -0.784 5M/5stn Msd 0.2 1↓
Felt Rotorua (33).

01/888
JAN 20 005115.3s 38.13S 176.26E 3km M=3.2
0.1 0.00 0.00 1
Rsd 0.2s 30ph/19stn Dmin 1km Az.gap 61°
Corr. -0.339 17M/14stn Msd 0.3 3↑ 4↓
Felt Rotorua (33).

01/895
JAN 20 011357.4s 38.12S 176.26E 2km M=3.1
0.1 0.01 0.00 R
Rsd 0.2s 29ph/22stn Dmin 2km Az.gap 60°
Corr. -0.169 18M/13stn Msd 0.4 4↑ 6↓
Felt Rotorua (33).

01/924
JAN 20 134730.4s 40.71S 175.53E 32km M=3.3
0.2 0.01 0.01 2
Rsd 0.3s 61ph/53stn Dmin 7km Az.gap 96°
Corr. -0.677 14M/8stn Msd 0.2 3↑ 3↓
Felt Levin (65).

01/931
JAN 20 163054.1s 37.05S 177.06E 201km M=4.0
0.2 0.02 0.02 2
Rsd 0.1s 32ph/28stn Dmin 125km Az.gap 268°
Corr. -0.731 7M/7stn Msd 0.2 1↑ 1↓

01/948
JAN 21 012914.1s 40.61S 174.25E 75km M=3.9
0.2 0.01 0.01 3
Rsd 0.2s 49ph/37stn Dmin 35km Az.gap 87°
Corr. -0.101 8M/5stn Msd 0.3 3↑ 2↓
Felt French Pass (78).

01/954
JAN 21 055112.5s 37.35S 176.74E 212km M=4.3
0.4 0.03 0.02 4
Rsd 0.2s 55ph/39stn Dmin 106km Az.gap 237°
Corr. -0.309 14M/9stn Msd 0.2 2↑ 10↓

01/960
JAN 21 082257.0s 36.66S 177.92E 153km M=3.9
0.6 0.05 0.06 7
Rsd 0.2s 16ph/12stn Dmin 109km Az.gap 306°
Corr. -0.602 3M/3stn Msd 0.0

01/985
JAN 21 152559.1s 39.48S 174.40E 137km M=3.3
0.5 0.02 0.03 5
Rsd 0.3s 21ph/16stn Dmin 58km Az.gap 152°
Corr. -0.278 4M/4stn Msd 0.1 1↑
Felt Wanganui (57).

01/994
JAN 21 185729.1s 37.21S 176.61E 259km M=3.6
0.3 0.06 0.08 4
Rsd 0.1s 14ph/12stn Dmin 125km Az.gap 309°
Corr. -0.497 3M/3stn Msd 0.2 1↑ 2↓

01/1024
JAN 22 082934.4s 38.64S 175.99E 5km M=2.4
0.1 0.01 0.01 1
Rsd 0.2s 28ph/19stn Dmin 4km Az.gap 94°
Corr. 0.565 4M/4stn Msd 0.4 6↑ 2↓
Felt Taupo (41).

01/1028
JAN 22 092805.6s 37.79S 179.10E 12km M=3.6
0.1 0.00 0.01 R
Rsd 0.1s 20ph/14stn Dmin 73km Az.gap 286°
Corr. -0.020 8M/5stn Msd 0.1

01/1035
JAN 22 110325.5s 37.81S 178.99E 14km M=3.5
0.2 0.01 0.01 1
Rsd 0.1s 29ph/22stn Dmin 65km Az.gap 283°
Corr. 0.087 8M/6stn Msd 0.2 1↑ 1↓

01/1053
JAN 22 163413.0s 38.87S 177.22E 39km M=3.5
0.1 0.01 0.01 2
Rsd 0.3s 96ph/55stn Dmin 22km Az.gap 50°
Corr. -0.040 8M/5stn Msd 0.3 17↑ 15↓

01/1066
JAN 22 204125.6s 45.11S 167.53E 94km M=4.6
0.3 0.06 0.01 3
Rsd 0.2s 11ph/5stn Dmin 50km Az.gap 185°
Corr. -0.313 19M/10stn Msd 0.1 4↑ 3↓

01/1067
JAN 22 210700.1s 38.26S 175.99E 177km M=3.7
0.5 0.04 0.03 5
Rsd 0.3s 27ph/19stn Dmin 87km Az.gap 273°
Corr. -0.038 4M/4stn Msd 0.3 1↑

01/1073
JAN 22 223605.4s 38.72S 176.02E 115km M=3.9
0.3 0.02 0.02 2
Rsd 0.2s 17ph/11stn Dmin 20km Az.gap 218°
Corr. -0.383 1M/1stn Msd N.D. 1↑ 2↓

01/1091
JAN 23 061947.3s 40.35S 173.45E 169km M=4.1
0.4 0.01 0.02 4
Rsd 0.2s 39ph/32stn Dmin 64km Az.gap 156°
Corr. 0.053 15M/10stn Msd 0.3 8↑ 15↓

01/1114
JAN 23 131948.7s 38.03S 176.73E 5km M=2.8
0.2 0.01 0.01 R
Rsd 0.3s 19ph/13stn Dmin 7km Az.gap 169°
Corr. 0.477 5M/5stn Msd 0.2 2↑ 5↓
Felt Kawerau (34).

01/1116
JAN 23 141559.0s 37.95S 176.32E 158km M=3.5
0.2 0.02 0.02 2
Rsd 0.1s 16ph/13stn Dmin 90km Az.gap 296°
Corr. -0.357 1M/1stn Msd N.D. 1↑

01/1120
JAN 23 184108.8s 37.61S 175.78E 5km M=3.2
0.1 0.01 0.01 R
Rsd 0.3s 33ph/24stn Dmin 28km Az.gap 121°
Corr. 0.285 8M/4stn Msd 0.2 1↓
Felt Waihi (21) and Tauranga (26).

01/1124
JAN 23 213149.8s 38.03S 175.49E 237km M=4.3
0.4 0.04 0.03 4
Rsd 0.2s 40ph/28stn Dmin 108km Az.gap 224°
Corr. -0.429 9M/7stn Msd 0.2 1↓

01/1136
JAN 24 040400.6s 38.89S 175.44E 117km M=3.7
0.2 0.01 0.01 2
Rsd 0.2s 47ph/38stn Dmin 15km Az.gap 85°
Corr. 0.250 6M/5stn Msd 0.3 8↑ 2↓

01/1169
JAN 24 145249.1s 38.61S 175.99E 4km M=2.7
0.1 0.01 0.01 1
Rsd 0.3s 50ph/39stn Dmin 5km Az.gap 32°
Corr. 0.420 21M/16stn Msd 0.3 11↑ 1↓
Felt Taupo (41).

01/1176
JAN 24 154330.9s 45.12S 167.40E 86km M=3.8
0.3 0.05 0.02 3
Rsd 0.2s 11ph/8stn Dmin 43km Az.gap 198°
Corr. -0.450 9M/5stn Msd 0.2 2↑ 2↓

01/1177
JAN 24 155944.5s 37.79S 179.38E 18km M=3.9
0.3 0.01 0.02 2
Rsd 0.1s 19ph/15stn Dmin 97km Az.gap 297°
Corr. -0.317 29M/15stn Msd 0.2 1↑ 2↓

01/1210
JAN 25 043526.7s 42.97S 170.98E 7km M=3.7
0.1 0.01 0.01 1
Rsd 0.2s 14ph/10stn Dmin 16km Az.gap 148°
Corr. -0.736 12M/6stn Msd 0.2 2↑ 2↓

01/1215
JAN 25 060143.5s 37.99S 176.80E 96km M=3.5
0.3 0.02 0.02 3
Rsd 0.2s 25ph/24stn Dmin 40km Az.gap 213°
Corr. -0.619 2M/2stn Msd 0.1 2↑ 1↓

01/1222
JAN 25 103124.5s 38.18S 176.94E 68km M=3.5
0.1 0.01 0.01 2
Rsd 0.2s 54ph/47stn Dmin 32km Az.gap 110°
Corr. 0.150 2M/2stn Msd 0.2 2↑ 4↓

01/1229
JAN 25 200703.9s 39.02S 175.29E 142km M=4.1
0.1 0.01 0.01 1
Rsd 0.3s 111ph/63stn Dmin 9km Az.gap 67°
Corr. 0.118 9M/7stn Msd 0.2 7↑ 13↓

01/1230
JAN 25 201402.5s 37.08S 177.56E 139km M=3.8
0.2 0.02 0.02 3
Rsd 0.1s 24ph/17stn Dmin 87km Az.gap 281°
Corr. -0.637 2M/2stn Msd 0.2 1↑

01/1238
JAN 26 011511.1s 38.74S 175.70E 132km M=3.9
0.2 0.01 0.01 2
Rsd 0.3s 68ph/42stn Dmin 32km Az.gap 82°
Corr. 0.021 9M/7stn Msd 0.1 14↑ 4↓

01/1270
JAN 26 165007.9s 45.06S 167.49E 117km M=3.6
0.4 0.03 0.02 4
Rsd 0.3s 16ph/8stn Dmin 52km Az.gap 222°
Corr. -0.270 6M/5stn Msd 0.3 1↑

01/1277
JAN 27 052412.1s 38.35S 175.80E 163km M=4.0
0.3 0.02 0.01 2
Rsd 0.2s 63ph/43stn Dmin 41km Az.gap 187°
Corr. -0.005 9M/7stn Msd 0.1 28↑ 2↓

01/1294
JAN 27 140147.9s 37.92S 176.53E 149km M=3.6
0.3 0.02 0.01 3
Rsd 0.2s 57ph/41stn Dmin 61km Az.gap 181°
Corr. 0.193 7M/7stn Msd 0.2 8↑ 2↓

01/1312
JAN 27 224542.5s 37.98S 175.96E 203km M=3.5
0.4 0.02 0.03 4
Rsd 0.2s 33ph/29stn Dmin 90km Az.gap 234°
Corr. -0.286 5M/5stn Msd 0.3 9↑ 2↓

01/1321
JAN 28 014544.2s 38.50S 175.70E 164km M=3.7
0.4 0.03 0.02 4
Rsd 0.3s 43ph/31stn Dmin 57km Az.gap 190°
Corr. 0.134 3M/3stn Msd 0.2 4↑ 4↓

01/1329
JAN 28 055116.3s 39.66S 174.61E 114km M=3.5
0.2 0.01 0.01 2
Rsd 0.3s 52ph/39stn Dmin 32km Az.gap 71°
Corr. -0.140 5M/5stn Msd 0.1 6↑ 2↓

01/1346
JAN 28 130925.8s 36.72S 177.21E 249km M=3.6
0.5 0.04 0.04 6
Rsd 0.3s 33ph/26stn Dmin 137km Az.gap 284°
Corr. -0.526 2M/2stn Msd 0.1 1↓

01/1366
JAN 28 191944.9s 38.93S 175.11E 198km M=4.3
0.2 0.01 0.01 2
Rsd 0.2s 111ph/80stn Dmin 27km Az.gap 77°
Corr. -0.004 8M/4stn Msd 0.1 31↑ 21↓

01/1368
JAN 28 194848.5s 40.53S 173.20E 221km M=4.4
0.4 0.01 0.02 3
Rsd 0.3s 43ph/35stn Dmin 65km Az.gap 143°
Corr. -0.073 15M/10stn Msd 0.3 11↑ 11↓

01/1369
JAN 28 195712.0s 37.49S 176.39E 180km M=3.8
0.4 0.03 0.02 5
Rsd 0.1s 46ph/32stn Dmin 137km Az.gap 244°
Corr. -0.498 6M/5stn Msd 0.2 3↑ 1↓

01/1398
JAN 29 085940.1s 40.83S 173.18E 144km M=3.7
0.3 0.01 0.01 3
Rsd 0.2s 31ph/25stn Dmin 55km Az.gap 108°
Corr. -0.008 6M/6stn Msd 0.2 7↑ 2↓

01/1427
JAN 30 014427.1s 36.36S 177.38E 265km M=3.5
0.5 0.06 0.06 9
Rsd 0.1s 18ph/16stn Dmin 160km Az.gap 297°
Corr. -0.680 1M/1stn Msd N.D.

01/1430
JAN 30 023538.7s 37.07S 177.34E 150km M=4.0
0.3 0.01 0.01 3
Rsd 0.1s 41ph/29stn Dmin 104km Az.gap 202°
Corr. 0.611 8M/8stn Msd 0.1 2↑ 2↓

01/1485
JAN 30 190812.3s 38.93S 175.15E 208km M=3.5
0.4 0.05 0.04 3
Rsd 0.2s 15ph/12stn Dmin 35km Az.gap 259°
Corr. -0.026 3M/3stn Msd 0.1 2↑ 1↓

01/1488
JAN 30 213708.9s 36.87S 177.93E 178km M=3.6
0.6 0.08 0.03 5
Rsd 0.1s 13ph/11stn Dmin 171km Az.gap 336°
Corr. 0.285 1M/1stn Msd N.D.

01/1499
JAN 31 005722.8s 43.32S 179.59E 33km M=4.0
0.3 0.02 0.02 R
Rsd 0.2s 52ph/46stn Dmin 414km Az.gap 261°
Corr. -0.528 19M/18stn Msd 0.2 1↓

01/1518
JAN 31 081622.6s 38.47S 175.44E 217km M=3.8
0.3 0.03 0.01 3
Rsd 0.3s 56ph/45stn Dmin 55km Az.gap 175°
Corr. -0.226 6M/5stn Msd 0.2 2↑ 8↓

01/1536
JAN 31 155241.0s 41.87S 173.00E 98km M=3.5
0.3 0.01 0.01 3
Rsd 0.3s 25ph/16stn Dmin 14km Az.gap 111°
Corr. -0.352 4M/4stn Msd 0.2 3↑ 1↓

01/1537
JAN 31 160030.3s 37.60S 175.80E 5km M=2.8
0.2 0.01 0.01 R
Rsd 0.3s 25ph/16stn Dmin 30km Az.gap 123°
Corr. -0.073 14M/9stn Msd 0.2 1↓
Felt Te Aroha (21).

01/1544
JAN 31 202316.9s 37.17S 177.36E 141km M=3.7
0.6 0.06 0.03 4
Rsd 0.2s 18ph/16stn Dmin 123km Az.gap 311°
Corr. -0.245 4M/4stn Msd 0.2 1↓

01/1549
JAN 31 230857.7s 40.30S 173.48E 158km M=3.6
0.4 0.01 0.01 3
Rsd 0.2s 39ph/30stn Dmin 67km Az.gap 142°
Corr. -0.113 6M/6stn Msd 0.2 5↑ 1↓

01/1550
FEB 01 002236.3s 45.11S 167.51E 90km M=3.6
0.4 0.03 0.03 3
Rsd 0.2s 13ph/7stn Dmin 59km Az.gap 266°
Corr. -0.484 9M/6stn Msd 0.2 2↑ 3↓

01/1553
FEB 01 050229.7s 44.65S 168.26E 84km M=4.0
0.3 0.02 0.02 5
Rsd 0.2s 13ph/9stn Dmin 78km Az.gap 208°
Corr. -0.425 11M/6stn Msd 0.3 5↑ 3↓

01/1575
FEB 01 123039.4s 37.24S 177.74E 113km M=5.5
0.2 0.01 0.01 2
Rsd 0.1s 100ph/60stn Dmin 58km Az.gap 203°
Corr. 0.525 10M/5stn Msd 0.2 4↑ 66↓
Felt north-eastern North Island.

01/1601
FEB 01 170031.6s 37.87S 176.61E 153km M=4.1
0.2 0.01 0.01 2
Rsd 0.3s 100ph/61stn Dmin 62km Az.gap 160°
Corr. 0.188 10M/8stn Msd 0.2 36↑ 1↓

01/1640
FEB 02 032811.7s 38.38S 178.05E 37km M=3.6
0.2 0.01 0.02 5
Rsd 0.2s 30ph/28stn Dmin 26km Az.gap 155°
Corr. -0.300 5M/3stn Msd 0.1 2↑ 4↓

01/1645
FEB 02 070336.2s 35.91S 178.34E 212km M=4.1
0.3 0.03 0.03 3
Rsd 0.1s 39ph/35stn Dmin 188km Az.gap 328°
Corr. -0.491 5M/5stn Msd 0.1 1↓

01/1646
FEB 02 072041.9s 35.67S 178.57E 205km M=4.2
0.3 0.03 0.04 4
Rsd 0.1s 41ph/38stn Dmin 216km Az.gap 333°
Corr. -0.450 5M/5stn Msd 0.1 1↓

01/1698
FEB 03 033130.2s 45.23S 167.00E 12km M=3.5
0.7 0.03 0.04 R
Rsd 0.3s 10ph/6stn Dmin 93km Az.gap 273°
Corr. 0.128 9M/7stn Msd 0.2 1↓

01/1705
FEB 03 060551.0s 36.96S 177.51E 132km M=3.7
0.5 0.04 0.02 4
Rsd 0.2s 27ph/26stn Dmin 100km Az.gap 281°
Corr. -0.423 5M/5stn Msd 0.1

01/1708
FEB 03 062053.0s 37.69S 179.47E 12km M=4.6
0.3 0.01 0.02 R
Rsd 0.1s 23ph/19stn Dmin 104km Az.gap 292°
Corr. -0.134 52M/28stn Msd 0.3 2↑ 6↓

01/1723
FEB 03 101233.0s 37.25S 178.07E 60km M=4.6
0.2 0.02 0.01 2
Rsd 0.1s 75ph/49stn Dmin 44km Az.gap 228°
Corr. 0.551 16M/12stn Msd 0.2 6↑ 30↓

01/1749
FEB 03 230039.3s 37.29S 178.01E 96km M=4.3
0.2 0.01 0.01 2
Rsd 0.1s 55ph/45stn Dmin 43km Az.gap 216°
Corr. 0.460 10M/5stn Msd 0.2 3↑ 16↓

01/1759
FEB 04 041448.2s 37.99S 175.78E 270km M=3.6
0.6 0.09 0.13 11
Rsd 0.1s 10ph/8stn Dmin 163km Az.gap 286°
Corr. -0.947 3M/3stn Msd 0.1 1↑ 2↓
Poor station coverage.

01/1761
FEB 04 044421.8s 35.98S 177.46E 214km M=3.7
0.3 0.04 0.04 5
Rsd 0.1s 26ph/24stn Dmin 195km Az.gap 315°
Corr. -0.613 4M/4stn Msd 0.4 1↑ 2↓

01/1765
FEB 04 060242.4s 42.06S 173.94E 5km M=3.8
0.2 0.02 0.01 R
Rsd 0.4s 28ph/17stn Dmin 39km Az.gap 149°
Corr. -0.468 14M/7stn Msd 0.2 6↑ 4↓
Felt Mahau Sound (78).

01/1798
FEB 04 224844.0s 41.27S 172.63E 200km M=3.8
0.4 0.03 0.02 3
Rsd 0.3s 20ph/16stn Dmin 50km Az.gap 118°
Corr. -0.385 5M/5stn Msd 0.3 3↑ 1↓

01/1810
FEB 05 073441.9s 38.50S 175.82E 152km M=3.6
0.3 0.02 0.01 2
Rsd 0.3s 62ph/41stn Dmin 22km Az.gap 135°
Corr. -0.087 8M/6stn Msd 0.1 23↑ 7↓

01/1823
FEB 05 143213.5s 38.45S 175.59E 230km M=3.6
0.5 0.03 0.02 4
Rsd 0.3s 39ph/34stn Dmin 22km Az.gap 138°
Corr. 0.006 5M/5stn Msd 0.3 2↑ 19↓

01/1847
FEB 06 051341.9s 40.34S 174.11E 80km M=3.5
0.2 0.01 0.01 4
Rsd 0.2s 31ph/23stn Dmin 53km Az.gap 112°
Corr. -0.225 5M/5stn Msd 0.1 1↑

01/1852
FEB 06 073851.8s 37.67S 179.58W 12km M=3.8
0.3 0.02 0.02 R
Rsd 0.1s 30ph/22stn Dmin 188km Az.gap 322°
Corr. -0.062 10M/9stn Msd 0.1

01/1876
FEB 06 174407.5s 35.51S 178.20E 235km M=4.0
0.3 0.04 0.04 5
Rsd 0.1s 27ph/25stn Dmin 232km Az.gap 329°
Corr. -0.523 3M/3stn Msd 0.3 1↓

01/1885
FEB 06 222001.8s 37.67S 179.96W 33km M=3.9
0.2 0.01 0.02 R
Rsd 0.1s 41ph/36stn Dmin 153km Az.gap 310°
Corr. 0.141 18M/11stn Msd 0.1

01/1905
FEB 07 100013.9s 36.14S 178.45E 33km M=3.6
0.7 0.05 0.07 R
Rsd 0.3s 13ph/10stn Dmin 263km Az.gap 333°
Corr. -0.436 3M/3stn Msd 0.3

01/1914
FEB 07 125429.4s 36.14S 177.92E 219km M=4.0
0.3 0.03 0.03 4
Rsd 0.2s 66ph/47stn Dmin 166km Az.gap 314°
Corr. -0.553 4M/4stn Msd 0.1 3↑ 2↓

01/1940
FEB 07 224542.2s 36.55S 177.54E 155km M=3.7
0.5 0.06 0.05 8
Rsd 0.2s 10ph/9stn Dmin 181km Az.gap 327°
Corr. -0.210 2M/2stn Msd 0.2

01/1942
FEB 08 004748.8s 40.14S 173.57E 164km M=4.0
0.4 0.01 0.02 4
Rsd 0.2s 46ph/39stn Dmin 80km Az.gap 146°
Corr. -0.212 15M/11stn Msd 0.2 2↑ 2↓

01/1950
FEB 08 052614.1s 36.57S 177.51E 197km M=3.9
0.5 0.03 0.02 5
Rsd 0.2s 43ph/36stn Dmin 134km Az.gap 299°
Corr. -0.314 3M/3stn Msd 0.4 1↑ 1↓

01/1965
FEB 08 120943.4s 36.82S 176.95E 312km M=5.2
0.4 0.03 0.02 3
Rsd 0.2s 65ph/54stn Dmin 81km Az.gap 212°
Corr. 0.580 10M/5stn Msd 0.3 40↑ 2↓

01/1969
FEB 08 150134.8s 38.61S 175.58E 164km M=3.9
0.3 0.02 0.02 2
Rsd 0.3s 63ph/45stn Dmin 37km Az.gap 89°
Corr. 0.092 10M/8stn Msd 0.2 2↑ 2↓

01/1991
FEB 08 220901.8s 38.55S 175.77E 153km M=3.7
0.3 0.02 0.01 2
Rsd 0.3s 60ph/41stn Dmin 47km Az.gap 213°
Corr. -0.110 5M/5stn Msd 0.2 16↑ 2↓

01/1994
FEB 09 004959.0s 37.72S 176.46E 163km M=3.7
0.4 0.03 0.02 3
Rsd 0.2s 39ph/37stn Dmin 83km Az.gap 277°
Corr. -0.338 6M/6stn Msd 0.1 1↑

01/2035
FEB 09 173949.6s 35.88S 178.77E 158km M=3.6
0.2 0.04 0.03 4
Rsd 0.1s 13ph/10stn Dmin 196km Az.gap 334°
Corr. -0.704 3M/3stn Msd 0.3

01/2037
FEB 09 181729.9s 38.22S 175.85E 184km M=3.7
0.3 0.03 0.02 3
Rsd 0.2s 27ph/21stn Dmin 78km Az.gap 279°
Corr. -0.316 1M/1stn Msd N.D. 3↑ 1↓

01/2050
FEB 10 005351.1s 37.10S 176.99E 207km M=4.9
0.4 0.02 0.02 3
Rsd 0.2s 77ph/57stn Dmin 50km Az.gap 187°
Corr. 0.477 10M/5stn Msd 0.2 17↑ 2↓

01/2117
FEB 10 164300.0s 40.03S 176.62E 27km M=3.5
0.1 0.01 0.01 1
Rsd 0.4s 108ph/53stn Dmin 12km Az.gap 111°
Corr. -0.043 26M/13stn Msd 0.2 16↑ 6↓

01/2144
FEB 11 033658.6s 36.63S 178.07E 156km M=3.6
0.4 0.04 0.04 4
Rsd 0.2s 33ph/22stn Dmin 110km Az.gap 320°
Corr. -0.685 3M/3stn Msd 0.1

01/2145
FEB 11 041608.0s 38.58S 175.68E 165km M=3.6
0.3 0.03 0.02 2
Rsd 0.2s 53ph/26stn Dmin 48km Az.gap 255°
Corr. 0.166 6M/6stn Msd 0.2 1↑

01/2149
FEB 11 051851.7s 36.80S 177.31E 204km M=3.7
0.8 0.07 0.06 7
Rsd 0.2s 21ph/20stn Dmin 164km Az.gap 301°
Corr. -0.100 3M/3stn Msd 0.1

01/2154
FEB 11 070243.2s 38.68S 175.15E 227km M=4.7
0.2 0.01 0.01 2
Rsd 0.3s 113ph/83stn Dmin 27km Az.gap 64°
Corr. 0.168 10M/5stn Msd 0.2 16↑ 43↓

01/2182
FEB 11 164257.7s 36.13S 177.26E 238km M=4.0
0.4 0.04 0.07 5
Rsd 0.1s 15ph/13stn Dmin 237km Az.gap 341°
Corr. -0.476 1M/1stn Msd N.D.

01/2186
FEB 11 200059.5s 37.87S 176.22E 192km M=3.8
0.3 0.02 0.02 3
Rsd 0.2s 57ph/41stn Dmin 89km Az.gap 201°
Corr. -0.111 7M/7stn Msd 0.2 2↑

01/2195
FEB 12 030645.3s 46.98S 165.12E 33km M=4.3
0.8 0.09 0.05 R
Rsd 0.2s 10ph/6stn Dmin 248km Az.gap 330°
Corr. -0.430 13M/7stn Msd 0.2 1↑

01/2196
FEB 12 033737.7s 38.29S 175.97E 153km M=3.6
0.4 0.03 0.03 4
Rsd 0.2s 25ph/13stn Dmin 73km Az.gap 288°
Corr. 0.274 1M/1stn Msd N.D. 1↑

01/2199
FEB 12 043418.5s 46.94S 165.32E 33km M=5.0
0.5 0.03 0.03 R
Rsd 0.2s 12ph/6stn Dmin 215km Az.gap 314°
Corr. 0.151 13M/7stn Msd 0.2 1↑

01/2200
FEB 12 043853.5s 46.95S 165.28E 33km M=3.6
0.8 0.05 0.05 R
Rsd 0.3s 11ph/7stn Dmin 218km Az.gap 313°
Corr. -0.304 6M/6stn Msd 0.2

01/2204
FEB 12 050407.0s 46.90S 165.41E 33km M=3.9
1.0 0.06 0.06 R
Rsd 0.5s 10ph/5stn Dmin 207km Az.gap 322°
Corr. 0.014 8M/4stn Msd 0.1 1↑

01/2225
FEB 12 114257.2s 35.26S 179.54E 270km M=4.1
0.5 0.06 0.08 6
Rsd 0.1s 8ph/6stn Dmin 282km Az.gap 346°
Corr. -0.095 2M/2stn Msd 0.2

01/2226
FEB 12 122011.9s 46.88S 165.33E 33km M=3.7
0.5 0.03 0.04 R
Rsd 0.2s 11ph/5stn Dmin 214km Az.gap 322°
Corr. -0.085 4M/4stn Msd 0.1

01/2240
FEB 12 190409.8s 39.38S 176.00E 53km M=3.8
0.1 0.01 0.01 1
Rsd 0.4s 162ph/82stn Dmin 7km Az.gap 24°
Corr. 0.167 8M/4stn Msd 0.1 13↑ 18↓

01/2253
FEB 13 012158.0s 37.97S 175.89E 173km M=3.6
0.8 0.15 0.36 23
Rsd 0.3s 9ph/4stn Dmin 104km Az.gap 305°
Corr. -0.968 1M/1stn Msd N.D. 1↓

01/2266
FEB 13 070448.5s 40.39S 176.48E 41km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 111ph/62stn Dmin 38km Az.gap 172°
Corr. -0.381 13M/8stn Msd 0.3 2↑

01/2308
FEB 13 200727.6s 37.70S 177.37E 84km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 70ph/45stn Dmin 25km Az.gap 123°
Corr. -0.126 5M/3stn Msd 0.3 6↑ 12↓

01/2321
FEB 14 030317.6s 37.73S 176.29E 224km M=4.6
0.2 0.01 0.02 2
Rsd 0.2s 114ph/71stn Dmin 31km Az.gap 176°
Corr. 0.141 9M/5stn Msd 0.1 39↑ 3↓

01/2367
FEB 14 200619.9s 41.19S 173.07E 136km M=3.7
0.4 0.02 0.02 4
Rsd 0.3s 30ph/23stn Dmin 61km Az.gap 72°
Corr. -0.320 6M/6stn Msd 0.1 5↑ 1↓

01/2370
FEB 14 211604.7s 37.63S 177.38E 79km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 73ph/44stn Dmin 74km Az.gap 199°
Corr. -0.395 9M/7stn Msd 0.1 1↑ 5↓

01/2371
FEB 14 214439.3s 40.04S 173.85E 174km M=3.6
0.5 0.01 0.02 4
Rsd 0.3s 33ph/26stn Dmin 83km Az.gap 129°
Corr. -0.197 5M/5stn Msd 0.2 1↑

01/2373
FEB 14 215215.5s 39.51S 174.37E 212km M=3.8
0.3 0.01 0.02 2
Rsd 0.2s 66ph/47stn Dmin 58km Az.gap 153°
Corr. -0.387 8M/8stn Msd 0.1 1↑

01/2375
FEB 14 220012.0s 34.58S 179.15E 232km M=4.8
0.3 0.04 0.07 7
Rsd 0.1s 36ph/25stn Dmin 344km Az.gap 331°
Corr. -0.497 10M/8stn Msd 0.2

01/2376
FEB 14 222053.7s 38.64S 175.67E 172km M=3.9
0.3 0.02 0.01 2
Rsd 0.3s 56ph/36stn Dmin 38km Az.gap 90°
Corr. 0.232 9M/7stn Msd 0.3 2↑

01/2379
FEB 15 012702.8s 38.26S 176.00E 152km M=4.3
0.2 0.01 0.01 2
Rsd 0.3s 123ph/79stn Dmin 19km Az.gap 59°
Corr. 0.340 8M/4stn Msd 0.1 24↑ 16↓

01/2427
FEB 15 223818.6s 38.44S 176.14E 5km M=3.4
0.1 0.01 0.01 R
Rsd 0.5s 79ph/59stn Dmin 12km Az.gap 38°
Corr. 0.127 31M/17stn Msd 0.2 20↑ 6↓
Felt Wairakei (41). The largest of a sequence of more than 10 events.

01/2441
FEB 16 002017.7s 38.05S 176.54E 139km M=3.8
0.2 0.02 0.01 2
Rsd 0.3s 72ph/45stn Dmin 56km Az.gap 162°
Corr. -0.205 10M/8stn Msd 0.1 24↑ 1↓

01/2446
FEB 16 020610.4s 36.08S 177.85E 212km M=3.9
0.4 0.03 0.05 5
Rsd 0.1s 16ph/13stn Dmin 173km Az.gap 324°
Corr. -0.510 2M/2stn Msd 0.2

01/2458
FEB 16 093301.8s 38.70S 178.02E 57km M=4.0
0.2 0.01 0.01 2
Rsd 0.3s 92ph/63stn Dmin 44km Az.gap 174°
Corr. -0.054 15M/10stn Msd 0.2 3↑ 26↓

01/2465
FEB 16 115818.1s 39.50S 174.84E 139km M=4.7
0.1 0.01 0.01 1
Rsd 0.3s 145ph/98stn Dmin 34km Az.gap 57°
Corr. -0.117 10M/5stn Msd 0.2 38↑ 30↓
Felt Marton (61) MM IV and Levin (65).

01/2474
FEB 16 152633.7s 37.04S 177.64E 119km M=4.0
0.2 0.01 0.01 2
Rsd 0.1s 52ph/43stn Dmin 68km Az.gap 261°
Corr. -0.158 10M/8stn Msd 0.2 3↑ 4↓

01/2516
FEB 17 075900.7s 41.29S 172.61E 202km M=3.9
0.3 0.02 0.02 2
Rsd 0.2s 29ph/20stn Dmin 51km Az.gap 121°
Corr. -0.383 6M/6stn Msd 0.2 8↑ 2↓

01/2521
FEB 17 092344.2s 37.45S 176.46E 245km M=3.5
0.4 0.05 0.03 5
Rsd 0.1s 29ph/24stn Dmin 140km Az.gap 304°
Corr. 0.152 2M/2stn Msd 0.0 6↑ 4↓

01/2526
FEB 17 112628.8s 35.51S 178.94E 198km M=4.0
0.6 0.04 0.03 4
Rsd 0.1s 27ph/24stn Dmin 239km Az.gap 334°
Corr. -0.084 2M/2stn Msd 0.2 1↑ 2↓

01/2543
FEB 17 211302.2s 43.91S 169.16E 12km M=3.7
0.3 0.01 0.03 R
Rsd 0.3s 16ph/9stn Dmin 23km Az.gap 177°
Corr. -0.594 8M/5stn Msd 0.1 1↑ 1↓

01/2555
FEB 18 005045.3s 38.02S 177.09E 76km M=4.0
0.2 0.01 0.01 2
Rsd 0.3s 99ph/66stn Dmin 26km Az.gap 86°
Corr. 0.313 12M/9stn Msd 0.4 20↑ 8↓

01/2565
FEB 18 053040.1s 41.77S 171.98E 10km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 19ph/13stn Dmin 15km Az.gap 104°
Corr. -0.403 11M/6stn Msd 0.3 5↑ 1↓
Felt Westport (79).

01/2571
FEB 18 072712.4s 39.13S 177.85E 26km M=3.6
0.1 0.01 0.01 1
Rsd 0.2s 89ph/51stn Dmin 6km Az.gap 140°
Corr. -0.145 33M/17stn Msd 0.3 9↑ 14↓

01/2587
FEB 18 113811.7s 37.21S 176.65E 224km M=4.1
0.2 0.02 0.02 2
Rsd 0.1s 66ph/43stn Dmin 124km Az.gap 256°
Corr. -0.674 8M/8stn Msd 0.2 35↑ 1↓

01/2600
FEB 18 143430.0s 35.28S 178.74E 177km M=3.8
0.4 0.06 0.06 11
Rsd 0.2s 22ph/19stn Dmin 260km Az.gap 339°
Corr. -0.562 3M/3stn Msd 0.2

01/2637
FEB 19 115529.4s 40.25S 174.18E 93km M=3.6
0.2 0.00 0.01 3
Rsd 0.2s 72ph/50stn Dmin 65km Az.gap 101°
Corr. -0.043 11M/8stn Msd 0.3 4↑ 3↓

01/2666
FEB 19 222628.9s 35.19S 178.94E 250km M=4.2
0.3 0.02 0.05 4
Rsd 0.1s 27ph/23stn Dmin 273km Az.gap 327°
Corr. 0.113 6M/6stn Msd 0.2 1↓

01/2673
FEB 20 015806.5s 37.90S 175.67E 272km M=3.5
0.5 0.04 0.04 7
Rsd 0.1s 8ph/7stn Dmin 168km Az.gap 296°
Corr. -0.892 1M/1stn Msd N.D.

01/2692
FEB 20 100138.0s 39.44S 174.57E 149km M=3.6
0.3 0.01 0.01 3
Rsd 0.2s 53ph/41stn Dmin 23km Az.gap 59°
Corr. -0.255 5M/5stn Msd 0.1 10↑ 5↓

01/2753
FEB 21 104035.5s 37.30S 177.35E 132km M=3.6
0.2 0.01 0.01 2
Rsd 0.1s 27ph/19stn Dmin 90km Az.gap 264°
Corr. -0.668 4M/3stn Msd 0.2 1↑

01/2769
FEB 21 144544.2s 37.29S 177.57E 132km M=4.1
0.3 0.02 0.01 3
Rsd 0.2s 60ph/45stn Dmin 43km Az.gap 238°
Corr. 0.377 8M/6stn Msd 0.3 2↑ 9↓

01/2783
FEB 21 232100.6s 37.08S 176.63E 242km M=3.6
0.4 0.06 0.06 5
Rsd 0.2s 10ph/9stn Dmin 177km Az.gap 326°
Corr. -0.573 1M/1stn Msd N.D. 1↑

01/2796
FEB 22 050956.1s 39.89S 179.20E 33km M=3.5
0.4 0.02 0.03 R
Rsd 0.1s 33ph/23stn Dmin 135km Az.gap 282°
Corr. -0.111 18M/13stn Msd 0.2 1↑ 2↓

01/2798
FEB 22 055715.4s 37.71S 176.10E 266km M=4.1
0.3 0.03 0.03 3
Rsd 0.2s 37ph/30stn Dmin 108km Az.gap 226°
Corr. -0.506 10M/8stn Msd 0.1 3↑ 2↓

01/2806
FEB 22 080414.9s 39.62S 176.80E 23km M=4.3
0.1 0.00 0.01 1
Rsd 0.3s 116ph/75stn Dmin 9km Az.gap 42°
Corr. -0.144 49M/25stn Msd 0.3 27↑ 19↓
Felt Hastings district (60) MM IV.

01/2843
FEB 22 190118.9s 38.39S 175.81E 161km M=3.7
0.3 0.02 0.02 3
Rsd 0.3s 44ph/31stn Dmin 56km Az.gap 218°
Corr. -0.331 5M/4stn Msd 0.1 21↑ 5↓

01/2853
FEB 22 234638.6s 37.02S 178.40E 12km M=3.6
0.6 0.03 0.06 R
Rsd 0.2s 17ph/13stn Dmin 65km Az.gap 317°
Corr. 0.326 5M/5stn Msd 0.2 1↓

01/2855
FEB 23 001317.0s 40.39S 173.44E 155km M=4.2
0.2 0.01 0.01 2
Rsd 0.2s 53ph/40stn Dmin 61km Az.gap 143°
Corr. -0.058 14M/9stn Msd 0.3 4↑ 15↓

01/2864
FEB 23 083229.0s 38.49S 178.67E 23km M=3.7
0.2 0.01 0.01 1
Rsd 0.2s 76ph/52stn Dmin 58km Az.gap 237°
Corr. 0.196 34M/17stn Msd 0.2 2↑ 2↓

01/2872
FEB 23 115602.3s 45.07S 167.49E 88km M=3.5
0.3 0.01 0.01 2
Rsd 0.2s 15ph/9stn Dmin 51km Az.gap 187°
Corr. -0.197 10M/6stn Msd 0.1 3↑ 2↓

01/2887
FEB 23 144811.2s 39.63S 176.80E 22km M=3.6
0.1 0.00 0.01 1
Rsd 0.3s 114ph/71stn Dmin 7km Az.gap 43°
Corr. -0.149 38M/19stn Msd 0.2 22↑ 19↓

01/2916
FEB 24 001417.8s 40.52S 174.59E 70km M=3.8
0.2 0.01 0.01 3
Rsd 0.2s 65ph/51stn Dmin 47km Az.gap 79°
Corr. -0.293 10M/7stn Msd 0.3 12↑ 6↓

01/2932
FEB 24 085551.8s 37.17S 176.64E 193km M=4.0
0.2 0.02 0.01 2
Rsd 0.1s 58ph/39stn Dmin 128km Az.gap 279°
Corr. -0.544 9M/8stn Msd 0.3 1↑ 1↓

01/2950
FEB 24 131746.9s 37.84S 176.71E 155km M=4.5
0.2 0.01 0.01 2
Rsd 0.3s 121ph/82stn Dmin 16km Az.gap 87°
Corr. 0.188 9M/5stn Msd 0.2 63↑ 9↓

01/2964
FEB 24 210700.6s 37.38S 176.35E 274km M=3.7
0.4 0.04 0.03 3
Rsd 0.1s 28ph/25stn Dmin 119km Az.gap 300°
Corr. -0.277 5M/5stn Msd 0.2 4↑ 1↓

01/2969
FEB 24 222858.1s 37.90S 176.46E 159km M=3.6
0.8 0.04 0.03 6
Rsd 0.3s 34ph/33stn Dmin 21km Az.gap 242°
Corr. 0.319 3M/3stn Msd 0.2 1↑

01/2987
FEB 24 234817.4s 38.59S 175.95E 4km M=3.0
0.1 0.01 0.01 1
Rsd 0.4s 71ph/50stn Dmin 1km Az.gap 35°
Corr. 0.305 13M/7stn Msd 0.2 3↑ 4↓
Felt Waihora Road (40).

01/2988
FEB 24 235141.8s 38.60S 175.97E 5km M=2.3
0.1 0.01 0.01 2
Rsd 0.3s 43ph/26stn Dmin 3km Az.gap 120°
Corr. 0.533 15M/9stn Msd 0.2 11↑ 3↓
Felt Waihora Road (40).

01/2999
FEB 25 001826.9s 38.59S 175.96E 5km M=2.5
0.1 0.01 0.01 1
Rsd 0.3s 43ph/32stn Dmin 2km Az.gap 65°
Corr. 0.416 20M/15stn Msd 0.3 11↑ 1↓
Felt Waihora Road (40).

01/3014
FEB 25 005504.3s 38.37S 176.00E 159km M=3.8
0.3 0.02 0.01 2
Rsd 0.3s 64ph/47stn Dmin 46km Az.gap 180°
Corr. -0.004 7M/7stn Msd 0.2 31↑ 2↓

01/3101
FEB 25 144121.8s 37.78S 179.11E 21km M=4.1
0.2 0.01 0.01 1
Rsd 0.1s 46ph/33stn Dmin 74km Az.gap 283°
Corr. 0.075 33M/17stn Msd 0.1 4↑ 1↓

01/3112
FEB 25 183634.7s 37.78S 179.09E 21km M=3.5
0.2 0.01 0.01 1
Rsd 0.1s 28ph/21stn Dmin 73km Az.gap 287°
Corr. -0.103 17M/16stn Msd 0.3 1↓

01/3118
FEB 25 184215.8s 37.67S 179.20E 33km M=3.7
0.4 0.01 0.03 R
Rsd 0.1s 34ph/29stn Dmin 80km Az.gap 297°
Corr. 0.564 13M/12stn Msd 0.2 1↓

01/3129
FEB 25 200129.2s 44.67S 168.13E 12km M=4.3
0.2 0.02 0.01 2
Rsd 0.3s 17ph/10stn Dmin 16km Az.gap 135°
Corr. -0.437 19M/11stn Msd 0.2 4↑ 2↓
Felt Mt Aspiring Homestead (113) and Mt Earnslaw Station (121).

01/3131
FEB 25 202608.5s 41.26S 172.72E 158km M=3.6
0.5 0.02 0.02 4
Rsd 0.3s 25ph/17stn Dmin 51km Az.gap 108°
Corr. -0.347 7M/7stn Msd 0.2 3↑ 1↓

01/3142
FEB 25 223816.6s 38.13S 176.22E 144km M=3.8
0.2 0.02 0.01 2
Rsd 0.2s 67ph/43stn Dmin 70km Az.gap 128°
Corr. -0.068 10M/8stn Msd 0.2 27↑ 1↓

01/3150
FEB 26 032943.0s 40.58S 175.34E 62km M=4.2
0.1 0.01 0.01 2
Rsd 0.3s 99ph/73stn Dmin 22km Az.gap 56°
Corr. -0.577 10M/6stn Msd 0.2 8↑ 12↓
Felt Wanganui (57) to Levin (65).

01/3190
FEB 26 183133.2s 35.71S 178.38E 198km M=3.6
0.7 0.06 0.07 9
Rsd 0.2s 9ph/7stn Dmin 209km Az.gap 337°
Corr. -0.228 2M/2stn Msd 0.1

01/3191
FEB 26 193909.2s 36.85S 177.88E 75km M=3.5
0.3 0.02 0.03 3
Rsd 0.2s 19ph/12stn Dmin 91km Az.gap 295°
Corr. -0.442 2M/2stn Msd 0.1 1↑ 1↓

01/3250
FEB 27 183131.5s 37.78S 179.07E 22km M=3.7
0.2 0.01 0.01 1
Rsd 0.1s 41ph/31stn Dmin 70km Az.gap 285°
Corr. 0.030 13M/9stn Msd 0.1 4↑ 3↓

01/3262
FEB 27 222326.8s 37.77S 179.11E 22km M=4.0
0.2 0.01 0.01 1
Rsd 0.1s 43ph/30stn Dmin 74km Az.gap 283°
Corr. 0.178 28M/14stn Msd 0.1 4↑ 6↓

01/3313
FEB 28 152108.4s 38.94S 175.89E 112km M=4.0
0.1 0.01 0.01 1
Rsd 0.3s 135ph/79stn Dmin 27km Az.gap 37°
Corr. 0.194 10M/5stn Msd 0.2 29↑ 21↓

01/3316
FEB 28 191624.3s 39.62S 176.16E 51km M=3.5
0.1 0.01 0.01 1
Rsd 0.3s 102ph/71stn Dmin 9km Az.gap 54°
Corr. 0.084 11M/8stn Msd 0.2 15↑ 14↓

01/3324
FEB 28 221317.3s 37.98S 176.39E 160km M=4.6
0.2 0.01 0.01 2
Rsd 0.3s 121ph/80stn Dmin 3km Az.gap 79°
Corr. 0.126 10M/5stn Msd 0.2 33↑ 6↓

01/3325
FEB 28 224221.4s 40.09S 175.29E 28km M=3.7
0.1 0.01 0.01 2
Rsd 0.4s 98ph/76stn Dmin 26km Az.gap 55°
Corr. -0.331 36M/19stn Msd 0.1 10↑ 4↓
Felt Wanganui (57) and Marton (61).

01/3329
FEB 28 231311.0s 37.81S 176.39E 171km M=4.2
0.2 0.01 0.01 2
Rsd 0.3s 109ph/66stn Dmin 22km Az.gap 110°
Corr. 0.278 10M/5stn Msd 0.2 13↑ 2↓

01/3333
FEB 28 235046.4s 41.73S 172.88E 78km M=3.5
0.3 0.01 0.01 3
Rsd 0.3s 23ph/17stn Dmin 4km Az.gap 74°
Corr. -0.154 7M/7stn Msd 0.2 5↑ 3↓

01/3337
MAR 01 002001.3s 37.81S 179.07E 19km M=3.6
0.3 0.02 0.02 2
Rsd 0.2s 23ph/21stn Dmin 72km Az.gap 287°
Corr. -0.005 9M/7stn Msd 0.2 1↓

01/3348
MAR 01 052205.6s 38.20S 177.72E 73km M=4.2
0.1 0.01 0.01 2
Rsd 0.2s 112ph/73stn Dmin 49km Az.gap 106°
Corr. 0.238 8M/4stn Msd 0.2 6↑ 35↓

01/3353
MAR 01 062032.4s 38.51S 175.77E 146km M=3.7
0.3 0.02 0.01 2
Rsd 0.3s 58ph/39stn Dmin 22km Az.gap 79°
Corr. 0.120 7M/7stn Msd 0.2 5↑ 9↓

01/3354
MAR 01 081259.6s 36.31S 177.26E 12km M=4.0
0.8 0.06 0.03 R
Rsd 0.4s 16ph/12stn Dmin 146km Az.gap 257°
Corr. 0.515 8M/8stn Msd 0.3 1↓

01/3368
MAR 01 124655.0s 40.44S 175.92E 45km M=3.6
0.1 0.01 0.01 3
Rsd 0.3s 62ph/47stn Dmin 38km Az.gap 87°
Corr. -0.473 13M/8stn Msd 0.3 10↑ 4↓

01/3378
MAR 01 151430.9s 35.86S 178.43E 163km M=3.7
0.9 0.11 0.05 13
Rsd 0.1s 10ph/9stn Dmin 246km Az.gap 337°
Corr. 0.613 2M/2stn Msd 0.2

01/3379
MAR 01 151942.8s 42.96S 171.95E 5km M=3.8
0.1 0.01 0.01 R
Rsd 0.2s 23ph/13stn Dmin 33km Az.gap 93°
Corr. -0.357 12M/6stn Msd 0.2 5↑ 3↓

01/3396
MAR 01 231224.2s 38.37S 178.11E 67km M=4.1
0.2 0.01 0.01 2
Rsd 0.2s 75ph/50stn Dmin 28km Az.gap 170°
Corr. 0.057 14M/9stn Msd 0.2 3↑ 13↓

01/3407
MAR 02 033612.3s 37.88S 175.90E 275km M=3.8
0.7 0.10 0.07 7
Rsd 0.2s 15ph/13stn Dmin 111km Az.gap 271°
Corr. -0.653 6M/6stn Msd 0.1 1↑ 1↓

01/3414
MAR 02 055746.5s 40.20S 174.46E 16km M=3.8
0.2 0.01 0.01 3
Rsd 0.3s 43ph/36stn Dmin 81km Az.gap 88°
Corr. 0.034 16M/9stn Msd 0.2 1↑

01/3440
MAR 02 112125.9s 39.12S 177.78E 28km M=3.6
0.1 0.01 0.01 1
Rsd 0.3s 64ph/40stn Dmin 10km Az.gap 85°
Corr. -0.281 30M/15stn Msd 0.2 5↑ 1↓

01/3503
MAR 03 032812.7s 38.17S 176.00E 168km M=3.8
0.3 0.02 0.02 2
Rsd 0.3s 51ph/35stn Dmin 53km Az.gap 194°
Corr. -0.094 8M/6stn Msd 0.1 18↑ 1↓

01/3506
MAR 03 044858.1s 40.03S 176.33E 27km M=4.0
0.1 0.01 0.01 1
Rsd 0.4s 110ph/76stn Dmin 49km Az.gap 110°
Corr. -0.273 47M/25stn Msd 0.2 18↑ 24↓

01/3513
MAR 03 072149.9s 40.57S 174.34E 91km M=3.8
0.2 0.01 0.01 3
Rsd 0.3s 51ph/38stn Dmin 43km Az.gap 85°
Corr. 0.024 11M/7stn Msd 0.4 10↑ 4↓

01/3518
MAR 03 082604.5s 38.24S 176.08E 156km M=3.9
0.3 0.02 0.01 2
Rsd 0.3s 59ph/39stn Dmin 38km Az.gap 168°
Corr. 0.124 9M/8stn Msd 0.2 16↑ 1↓

01/3521
MAR 03 084728.9s 44.99S 167.55E 99km M=3.7
0.3 0.02 0.02 3
Rsd 0.3s 17ph/9stn Dmin 46km Az.gap 191°
Corr. -0.250 16M/9stn Msd 0.2 2↑ 1↓

01/3526
MAR 03 111143.6s 39.03S 174.93E 206km M=3.9
0.3 0.03 0.02 3
Rsd 0.3s 51ph/37stn Dmin 53km Az.gap 99°
Corr. -0.034 8M/8stn Msd 0.3 6↑ 7↓

01/3539
MAR 03 154040.4s 45.15S 167.41E 82km M=3.6
0.2 0.01 0.01 2
Rsd 0.1s 18ph/10stn Dmin 41km Az.gap 189°
Corr. -0.299 8M/5stn Msd 0.2 2↑ 4↓

01/3555
MAR 03 212455.5s 38.10S 176.15E 152km M=3.7
0.3 0.02 0.02 3
Rsd 0.3s 43ph/28stn Dmin 74km Az.gap 254°
Corr. -0.356 7M/7stn Msd 0.3 9↑ 1↓

01/3557
MAR 03 223007.5s 39.71S 174.07E 151km M=4.1
0.3 0.01 0.01 2
Rsd 0.2s 75ph/54stn Dmin 42km Az.gap 114°
Corr. -0.444 12M/10stn Msd 0.2 1↑ 5↓

01/3570
MAR 04 022033.2s 37.41S 179.45E 12km M=3.8
0.3 0.02 0.02 R
Rsd 0.1s 23ph/16stn Dmin 103km Az.gap 318°
Corr. 0.368 7M/4stn Msd 0.1 1↓

01/3584
MAR 04 085444.7s 37.17S 176.21E 212km M=3.7
0.6 0.06 0.05 7
Rsd 0.3s 29ph/22stn Dmin 145km Az.gap 290°
Corr. -0.303 6M/6stn Msd 0.3 1↑

01/3614
MAR 04 173743.3s 37.17S 179.55E 33km M=3.9
0.6 0.04 0.04 R
Rsd 0.2s 27ph/21stn Dmin 121km Az.gap 326°
Corr. 0.353 12M/8stn Msd 0.2

01/3638
MAR 05 013746.1s 36.89S 177.48E 153km M=3.8
0.2 0.03 0.01 3
Rsd 0.1s 15ph/12stn Dmin 148km Az.gap 297°
Corr. -0.276 4M/4stn Msd 0.1 1↓

01/3650
MAR 05 054915.1s 40.59S 175.73E 41km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 62ph/46stn Dmin 15km Az.gap 90°
Corr. -0.740 12M/8stn Msd 0.4 7↑ 4↓

01/3661
MAR 05 091824.8s 39.14S 177.78E 26km M=3.7
0.1 0.01 0.01 1
Rsd 0.3s 80ph/51stn Dmin 11km Az.gap 88°
Corr. -0.184 32M/16stn Msd 0.2 9↑ 13↓

01/3663
MAR 05 101031.1s 36.99S 177.11E 157km M=3.5
0.4 0.04 0.03 6
Rsd 0.2s 16ph/12stn Dmin 125km Az.gap 285°
Corr. -0.554 3M/3stn Msd 0.3 1↑

01/3709
MAR 06 074447.5s 35.61S 179.25E 154km M=3.8
1.1 0.13 0.07 19
Rsd 0.1s 12ph/10stn Dmin 236km Az.gap 339°
Corr. -0.084 3M/3stn Msd 0.1

01/3722
MAR 06 110758.0s 38.41S 175.74E 153km M=3.7
0.3 0.02 0.01 2
Rsd 0.3s 69ph/47stn Dmin 12km Az.gap 141°
Corr. 0.101 7M/7stn Msd 0.2 10↑ 2↓

01/3731
MAR 06 151543.0s 38.07S 175.99E 165km M=4.0
0.2 0.02 0.01 2
Rsd 0.2s 73ph/50stn Dmin 59km Az.gap 206°
Corr. -0.135 11M/9stn Msd 0.3 30↑ 5↓

01/3747
MAR 07 043434.3s 40.81S 174.01E 69km M=3.5
0.2 0.01 0.01 3
Rsd 0.3s 36ph/27stn Dmin 8km Az.gap 84°
Corr. -0.176 6M/6stn Msd 0.3 4↑ 3↓

01/3769
MAR 07 114112.2s 39.80S 174.59E 105km M=4.2
0.1 0.00 0.01 1
Rsd 0.2s 114ph/77stn Dmin 29km Az.gap 76°
Corr. -0.299 9M/5stn Msd 0.2 17↑ 16↓

01/3792
MAR 07 211040.9s 36.72S 178.26E 22km M=3.8
0.3 0.02 0.02 2
Rsd 0.1s 28ph/24stn Dmin 97km Az.gap 269°
Corr. 0.765 10M/7stn Msd 0.2 1↓

01/3800
MAR 08 002501.1s 36.11S 178.43E 227km M=3.8
0.5 0.08 0.05 7
Rsd 0.2s 12ph/10stn Dmin 219km Az.gap 335°
Corr. -0.517 2M/2stn Msd 0.1

01/3841
MAR 08 131831.7s 41.29S 172.62E 180km M=3.6
0.3 0.02 0.02 3
Rsd 0.2s 29ph/22stn Dmin 52km Az.gap 118°
Corr. -0.207 7M/7stn Msd 0.2 4↑ 2↓

01/3848
MAR 08 150130.5s 36.93S 177.31E 172km M=3.5
0.5 0.05 0.05 5
Rsd 0.2s 27ph/23stn Dmin 115km Az.gap 266°
Corr. -0.579 6M/6stn Msd 0.2 1↓

01/3852
MAR 08 154916.7s 40.15S 174.45E 12km M=3.6
0.1 0.00 0.01 3
Rsd 0.3s 74ph/56stn Dmin 57km Az.gap 88°
Corr. -0.054 14M/8stn Msd 0.1 4↑ 5↓

01/3886
MAR 09 025912.1s 35.17S 178.53E 156km M=3.7
0.3 0.05 0.05 10
Rsd 0.1s 6ph/3stn Dmin 270km Az.gap 344°
Corr. -0.800 3M/3stn Msd 0.2

01/3906
MAR 09 120820.0s 38.02S 176.34E 140km M=3.7
0.3 0.03 0.02 3
Rsd 0.3s 34ph/25stn Dmin 72km Az.gap 213°
Corr. -0.599 6M/6stn Msd 0.2 5↑ 1↓

01/3936
MAR 10 014110.4s 38.32S 175.97E 152km M=3.8
0.4 0.03 0.02 4
Rsd 0.3s 32ph/22stn Dmin 84km Az.gap 221°
Corr. -0.269 6M/6stn Msd 0.3 13↑ 1↓

01/3939
MAR 10 031110.4s 37.77S 179.04E 24km M=3.5
0.2 0.01 0.01 1
Rsd 0.1s 35ph/23stn Dmin 67km Az.gap 284°
Corr. -0.148 9M/8stn Msd 0.1 2↑ 2↓

01/3950
MAR 10 075821.4s 37.52S 176.62E 163km M=4.0
0.2 0.02 0.01 2
Rsd 0.2s 61ph/41stn Dmin 93km Az.gap 234°
Corr. -0.467 8M/8stn Msd 0.2 1↑ 3↓

01/3969
MAR 10 185001.9s 35.43S 177.48E 232km M=4.1
0.9 0.10 0.11 22
Rsd 0.1s 17ph/15stn Dmin 252km Az.gap 315°
Corr. -0.927 5M/5stn Msd 0.1 1↑ 1↓

01/3978
MAR 10 235241.3s 39.28S 175.04E 143km M=4.1
0.2 0.01 0.01 2
Rsd 0.3s 78ph/54stn Dmin 45km Az.gap 112°
Corr. -0.122 12M/10stn Msd 0.3 19↑ 3↓

01/4015
MAR 11 141226.8s 38.17S 177.43E 5km M=3.8
0.1 0.01 0.01 R
Rsd 0.4s 63ph/55stn Dmin 30km Az.gap 68°
Corr. 0.106 30M/17stn Msd 0.2 4↑ 20↓
Felt Ruatuna Road (35).

01/4018
MAR 11 155540.3s 40.32S 176.43E 46km M=3.7
0.1 0.01 0.01 3
Rsd 0.2s 105ph/72stn Dmin 43km Az.gap 155°
Corr. -0.456 12M/8stn Msd 0.2 17↑ 2↓

01/4042
MAR 12 011553.1s 45.98S 166.90E 91km M=3.5
0.2 0.01 0.01 2
Rsd 0.1s 11ph/6stn Dmin 60km Az.gap 242°
Corr. 0.177 14M/7stn Msd 0.2 3↑ 1↓

01/4052
MAR 12 050338.5s 41.34S 172.57E 189km M=4.2
0.4 0.02 0.02 3
Rsd 0.2s 33ph/23stn Dmin 55km Az.gap 123°
Corr. -0.275 9M/8stn Msd 0.3 10↑ 5↓

01/4069
MAR 12 160319.6s 37.56S 179.40E 12km M=3.7
0.4 0.02 0.02 R
Rsd 0.1s 18ph/10stn Dmin 97km Az.gap 311°
Corr. 0.709 12M/8stn Msd 0.2 3↑ 1↓

01/4078
MAR 12 215216.2s 39.28S 174.81E 195km M=3.8
0.4 0.02 0.02 4
Rsd 0.3s 27ph/24stn Dmin 59km Az.gap 151°
Corr. -0.180 6M/6stn Msd 0.1 2↑ 2↓

01/4114
MAR 13 204858.3s 36.40S 178.19E 208km M=3.5
0.4 0.06 0.06 4
Rsd 0.2s 6ph/4stn Dmin 134km Az.gap 332°
Corr. -0.729 2M/2stn Msd 0.3

01/4130
MAR 14 033305.8s 36.83S 176.78E 289km M=3.9
0.7 0.06 0.05 7
Rsd 0.2s 14ph/12stn Dmin 159km Az.gap 277°
Corr. -0.662 5M/5stn Msd 0.2 1↓

01/4141
MAR 14 072125.8s 45.64S 167.39E 6km M=3.8
0.2 0.01 0.01 3
Rsd 0.2s 13ph/7stn Dmin 26km Az.gap 193°
Corr. 0.741 9M/5stn Msd 0.3 3↑ 2↓
Felt Manapouri (139).

01/4146
MAR 14 090415.9s 36.93S 177.43E 153km M=3.8
0.2 0.01 0.02 2
Rsd 0.1s 31ph/22stn Dmin 107km Az.gap 282°
Corr. -0.461 6M/5stn Msd 0.1 1↓

01/4156
MAR 14 160032.4s 38.18S 176.09E 152km M=3.9
0.2 0.02 0.01 2
Rsd 0.3s 71ph/47stn Dmin 60km Az.gap 180°
Corr. 0.052 8M/7stn Msd 0.2 26↑ 1↓

01/4183
MAR 15 070542.6s 38.49S 175.71E 182km M=3.8
0.4 0.03 0.03 4
Rsd 0.3s 32ph/25stn Dmin 77km Az.gap 123°
Corr. -0.274 6M/6stn Msd 0.1 1↑ 3↓

01/4197
MAR 15 105541.4s 40.30S 173.42E 153km M=4.2
0.3 0.01 0.01 3
Rsd 0.2s 48ph/37stn Dmin 70km Az.gap 147°
Corr. -0.026 16M/11stn Msd 0.2 7↑ 2↓

01/4212
MAR 15 170328.2s 41.09S 175.03E 7km M=3.0
0.1 0.01 0.00 1
Rsd 0.2s 35ph/29stn Dmin 4km Az.gap 50°
Corr. -0.138 15M/12stn Msd 0.3 4↑ 3↓
Felt Wellington (68) and Upper Hutt (69).

01/4222
MAR 15 200822.7s 38.02S 176.09E 177km M=3.9
0.3 0.02 0.02 3
Rsd 0.2s 55ph/43stn Dmin 83km Az.gap 225°
Corr. -0.456 8M/8stn Msd 0.2 18↑ 3↓

01/4243
MAR 16 053341.1s 39.73S 174.28E 188km M=3.7
0.3 0.01 0.01 3
Rsd 0.2s 44ph/35stn Dmin 47km Az.gap 111°
Corr. -0.392 7M/7stn Msd 0.3 5↑ 2↓

01/4289
MAR 16 192544.0s 39.74S 174.33E 161km M=3.8
0.4 0.01 0.02 4
Rsd 0.3s 40ph/34stn Dmin 49km Az.gap 91°
Corr. -0.215 7M/7stn Msd 0.3 3↑ 3↓

01/4298
MAR 16 234047.9s 38.24S 179.37E 12km M=3.7
0.3 0.01 0.02 R
Rsd 0.2s 19ph/15stn Dmin 99km Az.gap 274°
Corr. 0.348 10M/6stn Msd 0.1 4↑ 3↓

01/4301
MAR 17 000919.6s 37.26S 176.45E 267km M=3.7
0.4 0.05 0.04 4
Rsd 0.1s 19ph/18stn Dmin 125km Az.gap 279°
Corr. -0.517 3M/3stn Msd 0.2 3↑ 2↓

01/4307
MAR 17 022638.1s 39.92S 173.83E 132km M=3.7
0.2 0.01 0.01 3
Rsd 0.2s 45ph/37stn Dmin 76km Az.gap 150°
Corr. -0.455 7M/7stn Msd 0.2 9↑ 5↓

01/4309
MAR 17 024453.8s 40.03S 176.82E 42km M=3.8
0.1 0.01 0.01 1
Rsd 0.3s 112ph/70stn Dmin 4km Az.gap 128°
Corr. -0.372 14M/10stn Msd 0.2 10↑ 22↓

01/4325
MAR 17 081620.4s 37.10S 176.75E 212km M=3.5
0.2 0.02 0.02 2
Rsd 0.1s 26ph/23stn Dmin 133km Az.gap 265°
Corr. -0.736 8M/8stn Msd 0.1 1↓

01/4336
MAR 17 105453.4s 44.22S 168.43E 12km M=3.8
0.3 0.02 0.02 R
Rsd 0.3s 14ph/9stn Dmin 64km Az.gap 185°
Corr. -0.677 8M/5stn Msd 0.1 1↑
Felt Mt Aspiring Station (113).

01/4340
MAR 17 120226.2s 37.41S 176.65E 223km M=4.6
0.3 0.02 0.02 2
Rsd 0.2s 98ph/67stn Dmin 50km Az.gap 148°
Corr. 0.286 16M/11stn Msd 0.2 23↑ 2↓

01/4364
MAR 17 192148.5s 38.16S 175.79E 187km M=3.9
0.5 0.05 0.03 4
Rsd 0.1s 11ph/9stn Dmin 113km Az.gap 282°
Corr. 0.080 7M/7stn Msd 0.3 1↑

01/4373
MAR 17 225620.8s 36.52S 177.43E 12km M=3.6
0.8 0.05 0.03 R
Rsd 0.3s 10ph/6stn Dmin 143km Az.gap 281°
Corr. 0.504 4M/4stn Msd 0.3

01/4379
MAR 18 011524.5s 39.26S 174.86E 215km M=3.7
0.4 0.02 0.02 4
Rsd 0.2s 24ph/21stn Dmin 60km Az.gap 196°
Corr. -0.363 7M/7stn Msd 0.2 1↑

01/4387
MAR 18 045735.2s 45.13S 167.34E 80km M=3.6
0.2 0.01 0.01 2
Rsd 0.1s 11ph/6stn Dmin 40km Az.gap 200°
Corr. -0.226 14M/7stn Msd 0.2 2↑ 2↓

01/4408
MAR 18 131341.9s 37.69S 176.50E 141km M=3.5
0.3 0.02 0.02 3
Rsd 0.2s 57ph/35stn Dmin 83km Az.gap 239°
Corr. -0.615 5M/5stn Msd 0.1

01/4421
MAR 18 175629.5s 36.86S 177.30E 196km M=3.8
0.4 0.02 0.03 5
Rsd 0.2s 57ph/43stn Dmin 121km Az.gap 274°
Corr. -0.441 7M/7stn Msd 0.1 2↑ 3↓

01/4432
MAR 19 004623.2s 45.63S 167.39E 5km M=4.4
0.1 0.01 0.01 R
Rsd 0.2s 13ph/8stn Dmin 26km Az.gap 156°
Corr. 0.599 11M/6stn Msd 0.2 4↑ 3↓
Felt Manapouri (139).

01/4433
MAR 19 011535.8s 45.64S 167.38E 5km M=3.3
0.2 0.01 0.01 R
Rsd 0.2s 13ph/7stn Dmin 26km Az.gap 193°
Corr. 0.575 9M/5stn Msd 0.2 3↑ 2↓
Felt Manapouri (139).

01/4436
MAR 19 040339.2s 45.67S 167.33E 11km M=3.7
0.2 0.01 0.02 3
Rsd 0.3s 12ph/7stn Dmin 27km Az.gap 174°
Corr. 0.677 9M/5stn Msd 0.2 3↑ 2↓

01/4481
MAR 20 020940.3s 42.35S 173.56E 33km M=3.9
0.1 0.01 0.01 4
Rsd 0.1s 30ph/21stn Dmin 76km Az.gap 150°
Corr. -0.012 9M/6stn Msd 0.3 4↑ 6↓

01/4552
MAR 21 125710.1s 36.90S 176.62E 275km M=3.8
0.4 0.05 0.04 5
Rsd 0.1s 32ph/26stn Dmin 157km Az.gap 262°
Corr. -0.820 5M/5stn Msd 0.1 4↑ 4↓

01/4566
MAR 21 192516.2s 41.79S 178.20E 33km M=3.5
0.8 0.07 0.05 R
Rsd 0.2s 13ph/11stn Dmin 304km Az.gap 335°
Corr. 0.292 1M/1stn Msd N.D.

01/4568
MAR 21 204646.9s 37.46S 176.46E 185km M=4.1
0.3 0.02 0.02 3
Rsd 0.2s 47ph/31stn Dmin 105km Az.gap 237°
Corr. -0.557 10M/9stn Msd 0.2 1↓

01/4571
MAR 22 002004.8s 38.02S 176.36E 150km M=4.0
0.3 0.02 0.01 3
Rsd 0.3s 61ph/42stn Dmin 71km Az.gap 187°
Corr. -0.327 10M/9stn Msd 0.2 22↑ 2↓

01/4579
MAR 22 055154.0s 43.22S 171.45E 5km M=3.8
0.1 0.01 0.01 R
Rsd 0.2s 15ph/10stn Dmin 58km Az.gap 85°
Corr. -0.067 12M/6stn Msd 0.2 2↑ 1↓
Felt Harper River (99).

01/4580
MAR 22 063127.9s 44.60S 168.20E 84km M=4.0
0.4 0.03 0.02 4
Rsd 0.3s 17ph/10stn Dmin 24km Az.gap 154°
Corr. -0.042 14M/8stn Msd 0.2 2↑ 1↓

01/4584
MAR 22 071719.0s 35.96S 179.78E 102km M=4.9
0.4 0.03 0.03 12
Rsd 0.2s 58ph/39stn Dmin 225km Az.gap 309°
Corr. 0.363 16M/11stn Msd 0.2 1↑ 3↓

01/4590
MAR 22 105010.5s 39.27S 175.52E 96km M=3.6
0.2 0.01 0.01 1
Rsd 0.3s 78ph/52stn Dmin 4km Az.gap 94°
Corr. -0.205 9M/7stn Msd 0.2 6↑ 11↓

01/4606
MAR 22 161955.3s 40.23S 173.54E 185km M=3.6
0.5 0.03 0.02 5
Rsd 0.3s 22ph/17stn Dmin 71km Az.gap 185°
Corr. 0.171 4M/4stn Msd 0.1 1↑

01/4613
MAR 22 184154.2s 45.16S 167.42E 84km M=4.0
0.3 0.01 0.02 3
Rsd 0.2s 15ph/9stn Dmin 40km Az.gap 186°
Corr. -0.146 12M/7stn Msd 0.2 1↑ 7↓

01/4616
MAR 22 193309.3s 47.62S 165.15E 33km M=4.3
1.0 0.06 0.07 R
Rsd 0.4s 14ph/9stn Dmin 241km Az.gap 322°
Corr. -0.069 10M/6stn Msd 0.2

01/4623
MAR 22 222850.1s 42.02S 173.27E 5km M=4.2
0.1 0.01 0.01 R
Rsd 0.2s 32ph/22stn Dmin 42km Az.gap 125°
Corr. -0.289 22M/11stn Msd 0.2 5↑ 3↓

01/4632
MAR 23 032258.9s 36.71S 177.66E 201km M=3.9
0.4 0.03 0.03 4
Rsd 0.2s 47ph/35stn Dmin 160km Az.gap 308°
Corr. -0.282 5M/5stn Msd 0.1 1↑ 2↓

01/4634
MAR 23 033858.4s 40.83S 177.98E 33km M=4.2
0.2 0.01 0.01 R
Rsd 0.1s 80ph/47stn Dmin 130km Az.gap 222°
Corr. -0.249 44M/22stn Msd 0.2 6↑ 31↓

01/4703
MAR 24 035257.2s 39.15S 176.21E 55km M=3.7
0.1 0.01 0.01 1
Rsd 0.3s 76ph/53stn Dmin 16km Az.gap 44°
Corr. -0.233 10M/7stn Msd 0.2 11↑ 11↓

01/4743
MAR 24 190537.7s 40.67S 176.55E 24km M=3.9
0.1 0.01 0.01 1
Rsd 0.2s 75ph/55stn Dmin 26km Az.gap 194°
Corr. -0.786 20M/10stn Msd 0.2 4↑ 4↓

01/4749
MAR 24 225752.9s 38.63S 175.73E 142km M=3.6
0.4 0.03 0.03 3
Rsd 0.3s 30ph/18stn Dmin 61km Az.gap 247°
Corr. -0.369 1M/1stn Msd N.D. 1↑

01/4750
MAR 24 233448.6s 42.58S 173.07E 28km M=4.8
0.3 0.01 0.01 3
Rsd 0.2s 34ph/25stn Dmin 70km Az.gap 138°
Corr. -0.383 44M/23stn Msd 0.3 3↑ 11↓
Felt Westport (79) to Christchurch (110).

01/4785
MAR 25 114400.4s 37.96S 175.95E 271km M=5.3
0.2 0.02 0.02 2
Rsd 0.3s 130ph/86stn Dmin 33km Az.gap 89°
Corr. 0.310 10M/5stn Msd 0.4 6↑ 10↓

01/4805
MAR 25 220013.1s 42.54S 173.06E 33km M=3.7
0.1 0.01 0.01 R
Rsd 0.2s 27ph/18stn Dmin 70km Az.gap 136°
Corr. -0.408 11M/6stn Msd 0.2 1↑

01/4850
MAR 26 204926.6s 38.06S 176.28E 152km M=3.5
0.3 0.03 0.02 3
Rsd 0.2s 30ph/24stn Dmin 76km Az.gap 169°
Corr. -0.311 2M/2stn Msd 0.2 1↑

01/4932
MAR 28 113050.3s 45.08S 167.48E 125km M=3.6
0.4 0.02 0.02 3
Rsd 0.2s 16ph/8stn Dmin 50km Az.gap 187°
Corr. -0.169 9M/8stn Msd 0.4 3↑ 2↓

01/4937
MAR 28 141524.5s 37.80S 176.74E 161km M=4.2
0.2 0.01 0.01 2
Rsd 0.2s 85ph/57stn Dmin 21km Az.gap 141°
Corr. 0.147 13M/9stn Msd 0.2 39↑ 2↓

01/4947
MAR 28 225338.4s 45.70S 167.01E 12km M=4.2
0.3 0.01 0.02 R
Rsd 0.2s 12ph/8stn Dmin 28km Az.gap 237°
Corr. 0.417 11M/6stn Msd 0.3 1↑

01/4969
MAR 29 134638.1s 39.17S 177.58E 36km M=3.6
0.1 0.01 0.01 2
Rsd 0.3s 81ph/50stn Dmin 18km Az.gap 105°
Corr. -0.154 12M/9stn Msd 0.3 23↑ 5↓

01/4986
MAR 30 033809.5s 39.02S 174.79E 18km M=3.7
0.1 0.01 0.00 1
Rsd 0.2s 83ph/62stn Dmin 46km Az.gap 101°
Corr. -0.327 20M/11stn Msd 0.2 7↑ 13↓
Felt Uruti (39).

01/4990
MAR 30 045052.6s 38.03S 176.04E 177km M=3.6
0.3 0.03 0.02 3
Rsd 0.3s 50ph/35stn Dmin 58km Az.gap 160°
Corr. -0.262 6M/6stn Msd 0.1 21↑ 1↓

01/5001
MAR 30 123425.1s 41.68S 174.24E 5km M=4.3
0.1 0.01 0.01 R
Rsd 0.2s 25ph/20stn Dmin 9km Az.gap 122°
Corr. -0.484 28M/15stn Msd 0.2 13↑ 2↓

01/5024
MAR 30 175240.4s 37.39S 177.09E 5km M=4.7
0.2 0.01 0.01 R
Rsd 0.2s 64ph/57stn Dmin 18km Az.gap 163°
Corr. 0.483 34M/17stn Msd 0.2 1↓
Felt Ruatuna Road (35).

01/5047
MAR 31 012341.5s 36.08S 178.15E 33km M=3.6
0.5 0.03 0.04 R
Rsd 0.2s 7ph/4stn Dmin 221km Az.gap 332°
Corr. -0.211 2M/2stn Msd 0.1

01/5049
MAR 31 023513.2s 37.35S 177.17E 144km M=4.3
0.2 0.01 0.01 2
Rsd 0.1s 86ph/57stn Dmin 20km Az.gap 169°
Corr. 0.268 16M/11stn Msd 0.2 12↑ 1↓

01/5088
MAR 31 210917.0s 37.05S 176.86E 291km M=4.6
0.3 0.05 0.03 4
Rsd 0.2s 54ph/37stn Dmin 136km Az.gap 258°
Corr. -0.615 14M/10stn Msd 0.2 2↑

01/5099
APR 01 034510.5s 37.62S 178.04E 60km M=3.6
0.3 0.01 0.01 3
Rsd 0.2s 30ph/23stn Dmin 23km Az.gap 168°
Corr. 0.225 5M/3stn Msd 0.2 1↑

01/5101
APR 01 045911.7s 37.01S 177.63E 154km M=4.7
0.4 0.02 0.02 3
Rsd 0.1s 54ph/44stn Dmin 88km Az.gap 219°
Corr. 0.273 18M/13stn Msd 0.3 7↑ 25↓

01/5113
APR 01 092841.7s 35.49S 179.26E 203km M=5.1
0.6 0.04 0.04 7
Rsd 0.3s 55ph/50stn Dmin 249km Az.gap 307°
Corr. 0.650 11M/6stn Msd 0.2 2↑ 1↓

01/5116
APR 01 105830.5s 38.63S 175.85E 148km M=4.5
0.1 0.01 0.01 1
Rsd 0.3s 140ph/88stn Dmin 10km Az.gap 35°
Corr. 0.248 11M/6stn Msd 0.3 45↑ 37↓

01/5153
APR 01 193111.8s 38.68S 175.30E 214km M=4.8
0.2 0.02 0.01 2
Rsd 0.3s 107ph/73stn Dmin 30km Az.gap 56°
Corr. 0.111 8M/5stn Msd 0.3 26↑ 20↓

01/5167
APR 02 073213.8s 38.42S 176.02E 140km M=3.7
0.3 0.03 0.02 3
Rsd 0.2s 27ph/18stn Dmin 70km Az.gap 257°
Corr. -0.050 4M/4stn Msd 0.2 1↑

01/5193
APR 02 222917.2s 37.62S 177.20E 126km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 37ph/23stn Dmin 72km Az.gap 236°
Corr. -0.621 5M/3stn Msd 0.2 1↑

01/5200
APR 03 033845.2s 37.13S 178.05E 75km M=4.0
0.2 0.01 0.01 2
Rsd 0.1s 36ph/26stn Dmin 57km Az.gap 276°
Corr. 0.500 7M/5stn Msd 0.2

01/5204
APR 03 042653.1s 38.07S 176.73E 2km M=2.9
0.1 0.01 0.01 R
Rsd 0.3s 19ph/15stn Dmin 4km Az.gap 89°
Corr. 0.266 5M/5stn Msd 0.3 1↑
Felt Kawerau (34).

01/5208
APR 03 044402.2s 37.00S 177.61E 127km M=3.6
0.3 0.03 0.02 4
Rsd 0.2s 12ph/8stn Dmin 91km Az.gap 287°
Corr. -0.502 2M/2stn Msd 0.1

01/5220
APR 03 110044.9s 38.38S 179.17E 12km M=3.5
0.1 0.00 0.00 1
Rsd 0.0s 15ph/10stn Dmin 87km Az.gap 277°
Corr. -0.046 4M/4stn Msd 0.3 1↑

01/5222
APR 03 120343.4s 36.07S 178.54E 124km M=4.2
0.4 0.04 0.06 7
Rsd 0.2s 27ph/19stn Dmin 171km Az.gap 333°
Corr. -0.493 5M/3stn Msd 0.2 1↑

01/5231
APR 03 175559.5s 42.93S 171.83E 5km M=4.0
0.1 0.01 0.01 R
Rsd 0.1s 18ph/13stn Dmin 39km Az.gap 100°
Corr. -0.256 14M/7stn Msd 0.2 3↑ 3↓

01/5253
APR 04 051055.3s 45.11S 167.43E 66km M=3.7
0.2 0.01 0.01 2
Rsd 0.2s 22ph/10stn Dmin 45km Az.gap 191°
Corr. -0.366 9M/6stn Msd 0.2 1↑

01/5254
APR 04 054933.5s 35.92S 178.64E 131km M=3.8
0.7 0.10 0.09 17
Rsd 0.2s 13ph/10stn Dmin 189km Az.gap 332°
Corr. -0.810 3M/3stn Msd 0.1 1↑

01/5269
APR 04 145147.5s 38.68S 177.08E 5km M=3.6
0.1 0.01 0.01 R
Rsd 0.4s 98ph/68stn Dmin 4km Az.gap 66°
Corr. 0.187 33M/17stn Msd 0.2 9↑ 22↓

01/5275
APR 04 163616.7s 40.17S 173.61E 184km M=4.3
0.5 0.01 0.02 4
Rsd 0.2s 47ph/40stn Dmin 75km Az.gap 142°
Corr. -0.027 9M/5stn Msd 0.2 6↑ 15↓

01/5281
APR 04 211837.3s 41.69S 174.21E 30km M=4.1
0.1 0.01 0.01 1
Rsd 0.2s 28ph/22stn Dmin 7km Az.gap 101°
Corr. -0.571 18M/9stn Msd 0.2 6↑ 5↓
Felt from Wellington (68) to Ward (84).

01/5282
APR 04 212152.3s 41.68S 174.21E 31km M=3.8
0.1 0.01 0.01 1
Rsd 0.2s 28ph/21stn Dmin 8km Az.gap 101°
Corr. -0.569 14M/7stn Msd 0.2 6↑ 8↓

01/5283
APR 04 212529.8s 41.71S 174.23E 30km M=4.9
0.1 0.01 0.01 2
Rsd 0.2s 28ph/24stn Dmin 5km Az.gap 119°
Corr. -0.577 40M/20stn Msd 0.2 6↑ 8↓
Felt from Wanganui (57) to Ward (84).

01/5293
APR 04 222856.1s 41.69S 174.24E 29km M=4.4
0.1 0.01 0.01 1
Rsd 0.2s 32ph/22stn Dmin 7km Az.gap 127°
Corr. -0.475 24M/12stn Msd 0.2 6↑ 13↓
Felt Wellington (68) to Blenheim (77).

01/5299
APR 05 025731.0s 38.09S 176.28E 150km M=3.5
0.5 0.04 0.05 4
Rsd 0.3s 19ph/15stn Dmin 71km Az.gap 256°
Corr. -0.505 2M/2stn Msd 0.3 6↑ 1↓

01/5301
APR 05 043801.3s 39.72S 175.19E 75km M=3.8
0.2 0.01 0.01 3
Rsd 0.3s 81ph/58stn Dmin 24km Az.gap 64°
Corr. -0.298 11M/9stn Msd 0.3 6↑ 9↓

01/5310
APR 05 073323.1s 40.55S 174.76E 58km M=3.8
0.2 0.01 0.01 4
Rsd 0.2s 50ph/44stn Dmin 37km Az.gap 72°
Corr. -0.250 11M/8stn Msd 0.2 3↑ 1↓

01/5315
APR 05 085854.8s 35.36S 177.77E 243km M=4.0
0.3 0.03 0.04 6
Rsd 0.1s 18ph/15stn Dmin 253km Az.gap 331°
Corr. -0.818 2M/2stn Msd 0.0

01/5328
APR 05 153725.7s 38.42S 176.14E 113km M=3.5
0.2 0.01 0.01 2
Rsd 0.3s 67ph/46stn Dmin 36km Az.gap 120°
Corr. 0.081 6M/6stn Msd 0.1 10↑ 1↓

01/5351
APR 06 040506.0s 41.85S 174.60E 22km M=3.5
0.2 0.01 0.01 1
Rsd 0.2s 31ph/21stn Dmin 33km Az.gap 163°
Corr. -0.698 9M/5stn Msd 0.2 7↑ 5↓

01/5363
APR 06 083606.0s 37.27S 177.46E 104km M=4.5
0.2 0.01 0.01 2
Rsd 0.1s 73ph/59stn Dmin 37km Az.gap 223°
Corr. 0.357 16M/11stn Msd 0.2 5↑ 17↓

01/5391
APR 06 194159.0s 39.22S 177.88E 59km M=4.6
0.1 0.01 0.01 1
Rsd 0.2s 115ph/75stn Dmin 2km Az.gap 163°
Corr. -0.190 12M/6stn Msd 0.2 11↑ 43↓

01/5395
APR 06 233732.6s 38.24S 176.03E 147km M=3.6
0.3 0.02 0.02 3
Rsd 0.3s 44ph/31stn Dmin 61km Az.gap 220°
Corr. -0.221 3M/3stn Msd 0.1 11↑ 1↓

01/5400
APR 07 020310.9s 35.88S 177.91E 188km M=4.0
0.5 0.06 0.05 12
Rsd 0.2s 39ph/30stn Dmin 245km Az.gap 323°
Corr. -0.381 8M/8stn Msd 0.2 2↑ 1↓

01/5403
APR 07 044554.2s 36.37S 178.16E 188km M=3.7
0.4 0.07 0.06 6
Rsd 0.1s 15ph/12stn Dmin 138km Az.gap 324°
Corr. -0.892 3M/3stn Msd 0.1

01/5412
APR 07 060107.5s 37.92S 176.47E 162km M=3.5
0.3 0.02 0.02 3
Rsd 0.2s 41ph/30stn Dmin 68km Az.gap 203°
Corr. -0.318 4M/4stn Msd 0.3 1↑

01/5415
APR 07 085059.7s 37.62S 176.50E 154km M=3.6
0.2 0.02 0.02 3
Rsd 0.2s 36ph/24stn Dmin 89km Az.gap 242°
Corr. -0.713 5M/5stn Msd 0.2 1↓

01/5434
APR 07 175952.6s 38.43S 179.29E 12km M=3.8
0.2 0.01 0.01 R
Rsd 0.1s 31ph/24stn Dmin 99km Az.gap 265°
Corr. -0.225 13M/8stn Msd 0.2 1↓

01/5458
APR 08 031305.0s 37.76S 176.59E 151km M=3.9
0.2 0.01 0.01 2
Rsd 0.2s 62ph/38stn Dmin 72km Az.gap 173°
Corr. 0.063 9M/7stn Msd 0.1 1↑ 2↓

01/5460
APR 08 034234.3s 41.67S 173.35E 71km M=3.7
0.2 0.01 0.01 3
Rsd 0.3s 30ph/20stn Dmin 38km Az.gap 72°
Corr. -0.212 7M/7stn Msd 0.3 7↑ 10↓

01/5470
APR 08 085446.8s 36.37S 177.64E 195km M=3.8
0.5 0.03 0.03 4
Rsd 0.1s 13ph/11stn Dmin 148km Az.gap 315°
Corr. -0.596 2M/2stn Msd 0.2

01/5474
APR 08 095947.3s 38.90S 175.26E 148km M=4.0
0.2 0.01 0.01 2
Rsd 0.3s 91ph/55stn Dmin 20km Az.gap 132°
Corr. 0.070 12M/10stn Msd 0.2 13↑ 20↓

01/5475
APR 08 101038.0s 43.51S 172.52E 15km M=3.8
0.2 0.01 0.01 1
Rsd 0.2s 26ph/16stn Dmin 3km Az.gap 65°
Corr. 0.204 15M/8stn Msd 0.2 4↑ 2↓
Felt Christchurch (110).

01/5477
APR 08 112508.9s 37.07S 176.63E 242km M=3.8
0.2 0.04 0.03 3
Rsd 0.1s 39ph/31stn Dmin 139km Az.gap 262°
Corr. -0.803 6M/6stn Msd 0.2 1↑

01/5503
APR 08 222454.0s 36.43S 177.33E 206km M=3.6
0.5 0.05 0.04 5
Rsd 0.2s 21ph/17stn Dmin 156km Az.gap 301°
Corr. -0.613 3M/3stn Msd 0.1

01/5521
APR 09 072727.7s 39.55S 174.40E 215km M=4.1
0.4 0.01 0.01 3
Rsd 0.2s 56ph/47stn Dmin 29km Az.gap 72°
Corr. -0.221 11M/11stn Msd 0.3 13↑ 4↓

01/5537
APR 09 123503.8s 40.75S 174.31E 63km M=4.3
0.2 0.01 0.01 4
Rsd 0.3s 61ph/49stn Dmin 33km Az.gap 81°
Corr. -0.237 10M/5stn Msd 0.2 7↑ 6↓
Felt Wanganui (57) to Wellington (68).

01/5555
APR 09 212227.4s 37.96S 176.08E 186km M=4.2
0.3 0.02 0.02 3
Rsd 0.3s 56ph/40stn Dmin 57km Az.gap 143°
Corr. -0.060 11M/9stn Msd 0.2 1↓

01/5586
APR 10 221325.8s 41.93S 172.05E 96km M=3.6
0.2 0.01 0.02 2
Rsd 0.2s 18ph/12stn Dmin 29km Az.gap 94°
Corr. -0.511 5M/5stn Msd 0.2 1↑ 1↓

01/5588
APR 10 223239.3s 38.55S 175.61E 168km M=3.9
0.3 0.02 0.02 2
Rsd 0.3s 59ph/38stn Dmin 50km Az.gap 202°
Corr. 0.055 9M/9stn Msd 0.4 1↑

01/5599
APR 11 020943.3s 38.54S 175.91E 139km M=3.8
0.3 0.02 0.01 3
Rsd 0.3s 34ph/24stn Dmin 61km Az.gap 162°
Corr. -0.160 9M/7stn Msd 0.3 1↑ 4↓

01/5605
APR 11 041224.6s 37.85S 177.55E 43km M=3.9
0.2 0.01 0.01 3
Rsd 0.2s 45ph/36stn Dmin 48km Az.gap 109°
Corr. 0.000 10M/8stn Msd 0.2 2↑ 3↓
Felt Ruatuna Road (35) MM III.

01/5651
APR 12 000318.3s 38.39S 179.15E 12km M=4.2
0.2 0.01 0.01 R
Rsd 0.1s 47ph/30stn Dmin 85km Az.gap 262°
Corr. 0.358 32M/16stn Msd 0.1 1↑

01/5661
APR 12 075221.1s 36.38S 177.20E 250km M=3.6
0.2 0.02 0.03 3
Rsd 0.1s 28ph/20stn Dmin 167km Az.gap 293°
Corr. -0.480 4M/4stn Msd 0.1 1↑

01/5663
APR 12 081324.9s 47.52S 165.03E 33km M=5.5
0.6 0.03 0.04 R
Rsd 0.3s 15ph/8stn Dmin 246km Az.gap 322°
Corr. 0.125 26M/14stn Msd 0.3 3↑ 4↓

01/5685
APR 12 175452.7s 38.11S 176.30E 155km M=4.3
0.2 0.01 0.01 2
Rsd 0.3s 99ph/64stn Dmin 52km Az.gap 132°
Corr. 0.210 11M/7stn Msd 0.2 42↑ 2↓

01/5686
APR 12 180901.6s 38.13S 177.02E 73km M=4.6
0.1 0.01 0.01 2
Rsd 0.3s 105ph/76stn Dmin 17km Az.gap 58°
Corr. 0.202 13M/8stn Msd 0.3 21↑ 20↓

01/5694
APR 12 212548.5s 39.53S 174.78E 150km M=3.6
0.3 0.01 0.01 2
Rsd 0.3s 52ph/40stn Dmin 32km Az.gap 95°
Corr. -0.327 5M/5stn Msd 0.1 6↑ 4↓

01/5704
APR 13 005848.0s 36.19S 177.60E 256km M=4.0
0.8 0.10 0.09 9
Rsd 0.2s 11ph/9stn Dmin 234km Az.gap 339°
Corr. -0.032 1M/1stn Msd N.D.

01/5730
APR 13 153222.4s 41.91S 173.94E 12km M=4.6
0.3 0.02 0.01 2
Rsd 0.2s 25ph/19stn Dmin 29km Az.gap 143°
Corr. -0.291 37M/19stn Msd 0.2 7↑ 6↓
Felt Ward and Seddon (84).

01/5740
APR 13 210456.8s 38.48S 175.87E 227km M=3.6
2.9 0.14 0.22 27
Rsd 0.6s 7ph/6stn Dmin 89km Az.gap 135°
Corr. -0.762 1M/1stn Msd N.D. 1↓

01/5749
APR 14 024436.3s 37.93S 176.33E 157km M=4.1
0.2 0.02 0.01 2
Rsd 0.3s 73ph/43stn Dmin 65km Az.gap 152°
Corr. -0.083 11M/9stn Msd 0.3 7↑ 5↓

01/5761
APR 14 092746.9s 38.40S 175.82E 140km M=3.6
0.3 0.03 0.02 3
Rsd 0.2s 21ph/13stn Dmin 71km Az.gap 288°
Corr. -0.012 5M/5stn Msd 0.3 1↑

01/5792
APR 15 012719.7s 47.47S 165.23E 33km M=4.3
0.5 0.03 0.03 R
Rsd 0.3s 13ph/7stn Dmin 230km Az.gap 320°
Corr. -0.072 11M/6stn Msd 0.2

01/5799
APR 15 030121.7s 37.87S 176.52E 149km M=3.8
0.4 0.03 0.02 3
Rsd 0.3s 40ph/27stn Dmin 68km Az.gap 276°
Corr. -0.183 6M/6stn Msd 0.1 1↑

01/5802
APR 15 043836.0s 39.26S 175.11E 146km M=3.6
0.3 0.01 0.01 3
Rsd 0.3s 46ph/36stn Dmin 34km Az.gap 114°
Corr. -0.185 6M/6stn Msd 0.2 3↑ 3↓

01/5830
APR 15 132158.0s 37.37S 177.12E 138km M=3.7
0.2 0.02 0.02 2
Rsd 0.1s 53ph/32stn Dmin 99km Az.gap 226°
Corr. -0.684 4M/4stn Msd 0.1 2↑ 2↓

01/5837
APR 15 145054.6s 37.16S 176.74E 225km M=4.1
0.1 0.02 0.02 2
Rsd 0.1s 64ph/40stn Dmin 127km Az.gap 252°
Corr. -0.717 10M/8stn Msd 0.1 24↑ 2↓

01/5858
APR 15 234627.2s 38.37S 179.17E 12km M=3.7
0.2 0.00 0.01 R
Rsd 0.1s 31ph/24stn Dmin 87km Az.gap 265°
Corr. 0.132 17M/9stn Msd 0.2

01/5899
APR 16 135321.5s 38.66S 176.01E 102km M=3.7
0.2 0.01 0.01 2
Rsd 0.3s 81ph/51stn Dmin 23km Az.gap 48°
Corr. 0.017 8M/8stn Msd 0.2 13↑ 5↓

01/5920
APR 16 184913.6s 38.85S 175.48E 139km M=3.5
0.3 0.02 0.01 2
Rsd 0.3s 49ph/32stn Dmin 18km Az.gap 154°
Corr. -0.202 7M/7stn Msd 0.2 10↑ 4↓

01/5921
APR 16 190249.6s 37.38S 177.68E 109km M=4.6
0.3 0.01 0.01 2
Rsd 0.2s 64ph/46stn Dmin 47km Az.gap 183°
Corr. 0.331 13M/9stn Msd 0.3 5↑ 26↓

01/5939
APR 17 075456.4s 36.75S 176.68E 297km M=4.2
0.4 0.05 0.04 4
Rsd 0.3s 34ph/30stn Dmin 172km Az.gap 267°
Corr. -0.615 10M/8stn Msd 0.2 2↑ 3↓

01/5961
APR 17 165548.9s 42.58S 175.10E 33km M=3.6
0.4 0.03 0.02 R
Rsd 0.2s 23ph/17stn Dmin 118km Az.gap 199°
Corr. -0.438 30M/27stn Msd 0.3 2↑

01/5977
APR 17 203000.7s 40.39S 176.67E 39km M=3.6
0.1 0.01 0.01 4
Rsd 0.3s 70ph/46stn Dmin 43km Az.gap 186°
Corr. -0.556 10M/6stn Msd 0.1 7↑ 2↓

01/5978
APR 17 215307.4s 38.38S 175.96E 148km M=3.7
0.3 0.02 0.02 2
Rsd 0.3s 59ph/38stn Dmin 50km Az.gap 215°
Corr. -0.156 9M/8stn Msd 0.2 14↑ 2↓

01/5984
APR 18 003623.8s 37.92S 176.16E 184km M=4.1
0.3 0.02 0.02 3
Rsd 0.3s 69ph/44stn Dmin 92km Az.gap 230°
Corr. -0.171 8M/7stn Msd 0.2 28↑ 6↓

01/6039
APR 18 183108.9s 36.64S 179.58E 62km M=3.6
0.5 0.04 0.04 17
Rsd 0.2s 12ph/9stn Dmin 156km Az.gap 338°
Corr. -0.462 3M/3stn Msd 0.2

01/6042
APR 18 193448.0s 47.51S 165.13E 33km M=5.4
0.8 0.04 0.06 R
Rsd 0.4s 15ph/8stn Dmin 239km Az.gap 321°
Corr. -0.011 27M/14stn Msd 0.3 2↑ 5↓

01/6049
APR 18 224342.5s 47.37S 165.31E 12km M=4.3
0.7 0.03 0.05 R
Rsd 0.3s 15ph/9stn Dmin 221km Az.gap 317°
Corr. 0.033 10M/6stn Msd 0.2 3↑ 1↓

01/6059
APR 19 021048.6s 37.78S 176.02E 279km M=3.7
0.6 0.10 0.15 7
Rsd 0.2s 11ph/8stn Dmin 110km Az.gap 314°
Corr. -0.273 3M/3stn Msd 0.2

01/6061
APR 19 031344.0s 38.39S 175.95E 154km M=3.5
0.3 0.03 0.02 3
Rsd 0.2s 26ph/20stn Dmin 74km Az.gap 220°
Corr. 0.344 2M/2stn Msd 0.2 1↑

01/6072
APR 19 083915.1s 38.78S 175.93E 117km M=4.3
0.2 0.01 0.01 1
Rsd 0.3s 112ph/67stn Dmin 17km Az.gap 78°
Corr. 0.154 15M/10stn Msd 0.3 32↑ 7↓

01/6079
APR 19 093119.3s 40.06S 176.78E 44km M=4.0
0.1 0.01 0.01 1
Rsd 0.2s 102ph/76stn Dmin 8km Az.gap 152°
Corr. -0.412 15M/10stn Msd 0.3 24↑ 7↓

01/6094
APR 19 150452.3s 40.03S 173.73E 230km M=4.2
0.3 0.01 0.02 2
Rsd 0.2s 64ph/43stn Dmin 79km Az.gap 144°
Corr. -0.391 10M/8stn Msd 0.2 11↑ 11↓

01/6119
APR 19 220650.0s 38.41S 179.13E 12km M=3.7
0.3 0.01 0.02 R
Rsd 0.1s 34ph/24stn Dmin 85km Az.gap 266°
Corr. -0.164 18M/11stn Msd 0.1

01/6151
APR 20 052000.8s 37.90S 176.49E 147km M=3.5
0.5 0.04 0.02 3
Rsd 0.2s 17ph/14stn Dmin 68km Az.gap 279°
Corr. -0.380 1M/1stn Msd N.D. 1↑ 1↓

01/6156
APR 20 072853.7s 37.31S 177.59E 117km M=3.6
0.2 0.02 0.02 3
Rsd 0.1s 40ph/26stn Dmin 71km Az.gap 258°
Corr. -0.559 5M/4stn Msd 0.3 7↑ 3↓

01/6158
APR 20 081635.4s 35.45S 178.59E 224km M=4.2
0.3 0.03 0.04 5
Rsd 0.1s 38ph/28stn Dmin 239km Az.gap 332°
Corr. -0.474 4M/4stn Msd 0.3 1↑ 3↓

01/6168
APR 20 115246.2s 45.62S 167.40E 5km M=4.4
0.2 0.01 0.01 R
Rsd 0.2s 14ph/8stn Dmin 26km Az.gap 187°
Corr. 0.579 15M/8stn Msd 0.3 7↑ 3↓

01/6188
APR 20 180810.0s 38.73S 175.27E 198km M=4.0
0.2 0.02 0.02 2
Rsd 0.3s 73ph/43stn Dmin 37km Az.gap 202°
Corr. -0.136 7M/7stn Msd 0.2 7↑ 15↓

01/6211
APR 21 035903.7s 38.14S 176.37E 139km M=4.2
0.2 0.01 0.01 2
Rsd 0.3s 96ph/67stn Dmin 13km Az.gap 53°
Corr. 0.178 8M/4stn Msd 0.2 44↑ 3↓

01/6217
APR 21 065135.8s 37.09S 177.15E 187km M=3.5
0.3 0.04 0.07 3
Rsd 0.1s 11ph/9stn Dmin 130km Az.gap 322°
Corr. 0.191 1M/1stn Msd N.D. 1↑ 2↓

01/6232
APR 21 093757.4s 36.95S 177.28E 172km M=3.6
0.2 0.01 0.02 3
Rsd 0.1s 29ph/21stn Dmin 115km Az.gap 279°
Corr. -0.621 4M/4stn Msd 0.3 1↑

01/6246
APR 21 123848.6s 36.56S 177.53E 190km M=3.6
0.3 0.03 0.03 5
Rsd 0.2s 40ph/28stn Dmin 134km Az.gap 305°
Corr. -0.430 4M/4stn Msd 0.3 1↑

01/6253
APR 21 144036.9s 40.46S 173.41E 165km M=4.1
0.4 0.02 0.01 3
Rsd 0.2s 31ph/23stn Dmin 57km Az.gap 167°
Corr. -0.210 9M/8stn Msd 0.5 10↑ 4↓

01/6263
APR 21 191702.6s 38.46S 175.64E 160km M=3.7
0.3 0.02 0.02 2
Rsd 0.3s 63ph/40stn Dmin 20km Az.gap 181°
Corr. 0.075 5M/5stn Msd 0.3 1↑

01/6273
APR 21 233117.1s 39.79S 174.67E 128km M=4.0
0.2 0.01 0.01 2
Rsd 0.2s 85ph/64stn Dmin 22km Az.gap 77°
Corr. -0.504 12M/9stn Msd 0.4 14↑ 12↓

01/6275
APR 21 235102.4s 38.86S 175.42E 117km M=3.5
0.3 0.02 0.02 2
Rsd 0.3s 72ph/52stn Dmin 19km Az.gap 119°
Corr. 0.097 7M/6stn Msd 0.2 6↑ 3↓

01/6279
APR 22 005122.8s 36.82S 177.06E 223km M=3.9
0.3 0.03 0.03 4
Rsd 0.3s 52ph/37stn Dmin 141km Az.gap 282°
Corr. -0.509 6M/6stn Msd 0.1 1↑

01/6285
APR 22 044229.3s 39.40S 174.73E 22km M=3.8
0.1 0.01 0.01 1
Rsd 0.2s 54ph/43stn Dmin 48km Az.gap 82°
Corr. -0.237 14M/7stn Msd 0.2 6↑ 4↓

01/6321
APR 22 182111.9s 37.92S 176.56E 138km M=3.5
0.3 0.02 0.02 3
Rsd 0.3s 49ph/32stn Dmin 61km Az.gap 248°
Corr. 0.030 4M/3stn Msd 0.2 3↑ 1↓

01/6324
APR 22 183512.2s 38.51S 175.69E 161km M=3.5
0.3 0.04 0.02 3
Rsd 0.3s 24ph/18stn Dmin 56km Az.gap 259°
Corr. -0.071 3M/3stn Msd 0.3 1↑

01/6332
APR 23 004829.8s 37.22S 177.27E 149km M=3.8
0.2 0.02 0.02 3
Rsd 0.1s 26ph/17stn Dmin 116km Az.gap 290°
Corr. -0.504 2M/2stn Msd 0.5 2↑ 1↓

01/6338
APR 23 043102.2s 41.33S 172.76E 154km M=3.7
0.4 0.02 0.01 3
Rsd 0.2s 30ph/21stn Dmin 50km Az.gap 101°
Corr. -0.418 8M/7stn Msd 0.2 3↑ 2↓

01/6358
APR 23 112825.7s 37.99S 176.76E 132km M=4.1
0.2 0.01 0.01 2
Rsd 0.3s 106ph/67stn Dmin 7km Az.gap 107°
Corr. 0.169 11M/8stn Msd 0.2 37↑ 3↓

01/6368
APR 23 135236.6s 40.46S 173.37E 163km M=3.5
0.4 0.03 0.02 4
Rsd 0.2s 21ph/17stn Dmin 60km Az.gap 181°
Corr. 0.268 3M/3stn Msd 0.2 3↑ 2↓

01/6370
APR 23 142500.6s 37.45S 177.20E 5km M=3.9
0.1 0.01 0.01 R
Rsd 0.2s 46ph/38stn Dmin 9km Az.gap 160°
Corr. 0.212 14M/7stn Msd 0.1 1↑ 4↓

01/6378
APR 23 202002.4s 42.46S 173.79E 20km M=3.8
0.3 0.01 0.01 3
Rsd 0.2s 25ph/19stn Dmin 83km Az.gap 163°
Corr. -0.674 10M/5stn Msd 0.2 1↑

01/6382
APR 24 011126.8s 36.65S 177.63E 179km M=4.9
0.3 0.02 0.01 3
Rsd 0.1s 36ph/27stn Dmin 105km Az.gap 245°
Corr. 0.414 9M/5stn Msd 0.2 4↑ 21↓

01/6396
APR 24 080727.8s 38.60S 176.00E 5km M=2.5
0.1 0.00 0.00 1
Rsd 0.2s 47ph/30stn Dmin 5km Az.gap 103°
Corr. 0.549 10M/6stn Msd 0.4 9↑ 3↓
Felt Taupo (41).

01/6457
APR 25 002525.0s 38.23S 179.35E 12km M=3.6
0.3 0.01 0.02 R
Rsd 0.1s 25ph/22stn Dmin 98km Az.gap 282°
Corr. 0.238 6M/6stn Msd 0.4 1↑ 1↓

01/6467
APR 25 043741.3s 36.99S 176.81E 247km M=3.9
0.3 0.04 0.03 4
Rsd 0.1s 24ph/21stn Dmin 149km Az.gap 258°
Corr. -0.851 8M/8stn Msd 0.2 1↓

01/6470
APR 25 063207.3s 38.51S 176.15E 93km M=3.6
0.2 0.01 0.01 2
Rsd 0.3s 81ph/55stn Dmin 17km Az.gap 63°
Corr. 0.071 8M/7stn Msd 0.2 5↑ 6↓

01/6504
APR 25 182755.4s 40.22S 173.56E 168km M=3.8
0.3 0.01 0.01 3
Rsd 0.2s 34ph/23stn Dmin 72km Az.gap 146°
Corr. 0.094 7M/5stn Msd 0.3 10↑ 4↓

01/6514
APR 25 214537.6s 40.05S 176.64E 26km M=3.7
0.1 0.01 0.01 1
Rsd 0.4s 83ph/53stn Dmin 13km Az.gap 120°
Corr. -0.397 34M/17stn Msd 0.2 13↑ 3↓

01/6525
APR 26 011349.0s 38.58S 175.65E 144km M=3.8
0.3 0.02 0.02 3
Rsd 0.3s 53ph/36stn Dmin 56km Az.gap 186°
Corr. -0.304 7M/7stn Msd 0.2 13↑ 4↓

01/6528
APR 26 020735.6s 40.04S 176.65E 26km M=3.8
0.1 0.01 0.01 1
Rsd 0.3s 79ph/54stn Dmin 13km Az.gap 119°
Corr. -0.382 36M/18stn Msd 0.2 21↑ 3↓

01/6535
APR 26 053929.9s 37.44S 177.21E 5km M=4.0
0.1 0.01 0.01 R
Rsd 0.2s 45ph/37stn Dmin 10km Az.gap 161°
Corr. 0.289 17M/9stn Msd 0.1 1↑ 2↓

01/6569
APR 26 172924.5s 38.22S 176.55E 131km M=4.1
0.2 0.01 0.01 1
Rsd 0.3s 116ph/74stn Dmin 15km Az.gap 39°
Corr. 0.377 12M/8stn Msd 0.3 42↑ 8↓

01/6580
APR 26 230625.2s 42.19S 173.13E 5km M=3.5
0.1 0.01 0.01 R
Rsd 0.2s 26ph/19stn Dmin 51km Az.gap 128°
Corr. -0.217 9M/5stn Msd 0.1 2↑ 1↓

01/6598
APR 27 072058.2s 38.04S 176.34E 143km M=3.6
0.3 0.02 0.02 2
Rsd 0.2s 56ph/36stn Dmin 69km Az.gap 247°
Corr. -0.206 5M/5stn Msd 0.2 1↑

01/6611
APR 27 133132.6s 37.04S 177.00E 227km M=3.7
0.2 0.02 0.02 2
Rsd 0.1s 22ph/18stn Dmin 131km Az.gap 272°
Corr. -0.665 3M/3stn Msd 0.2 3↑ 2↓

01/6674
APR 28 070111.8s 47.25S 165.08E 33km M=3.6
0.5 0.03 0.03 R
Rsd 0.2s 12ph/7stn Dmin 236km Az.gap 318°
Corr. 0.006 7M/7stn Msd 0.2

01/6682
APR 28 103936.1s 38.04S 176.00E 180km M=3.9
0.2 0.01 0.01 2
Rsd 0.3s 85ph/53stn Dmin 56km Az.gap 129°
Corr. 0.083 9M/8stn Msd 0.2 11↑ 2↓

01/6693
APR 28 124357.6s 38.16S 176.45E 121km M=4.0
0.2 0.01 0.01 2
Rsd 0.3s 89ph/59stn Dmin 9km Az.gap 72°
Corr. 0.194 12M/8stn Msd 0.2 2↑

01/6696
APR 28 132621.3s 38.34S 175.94E 150km M=3.6
0.3 0.02 0.02 3
Rsd 0.3s 52ph/36stn Dmin 53km Az.gap 231°
Corr. -0.224 3M/3stn Msd 0.2 7↑ 2↓

01/6701
APR 28 152112.2s 45.17S 167.47E 112km M=4.0
0.5 0.02 0.02 4
Rsd 0.3s 15ph/9stn Dmin 42km Az.gap 178°
Corr. -0.195 11M/6stn Msd 0.1 6↑ 2↓

01/6706
APR 28 180935.4s 37.51S 176.49E 192km M=3.8
0.2 0.02 0.01 2
Rsd 0.2s 70ph/44stn Dmin 99km Az.gap 233°
Corr. -0.222 8M/7stn Msd 0.2 1↓

01/6728
APR 29 033558.9s 35.64S 178.21E 221km M=3.7
0.5 0.04 0.08 7
Rsd 0.1s 8ph/7stn Dmin 218km Az.gap 338°
Corr. -0.642 3M/3stn Msd 0.2

01/6786
APR 30 003225.7s 38.44S 176.05E 140km M=3.6
0.3 0.02 0.02 3
Rsd 0.3s 43ph/30stn Dmin 40km Az.gap 253°
Corr. -0.041 5M/5stn Msd 0.2 1↑

01/6791
APR 30 014101.3s 37.80S 176.18E 195km M=3.9
0.3 0.02 0.02 2
Rsd 0.2s 62ph/40stn Dmin 93km Az.gap 222°
Corr. -0.081 6M/6stn Msd 0.1 1↑

01/6793
APR 30 020716.4s 37.60S 180.00E 12km M=3.6
0.3 0.02 0.02 R
Rsd 0.1s 25ph/20stn Dmin 150km Az.gap 315°
Corr. 0.171 12M/10stn Msd 0.2 1↑ 1↓

01/6819
APR 30 090819.1s 47.54S 165.23E 33km M=3.9
0.6 0.04 0.04 R
Rsd 0.3s 16ph/9stn Dmin 233km Az.gap 321°
Corr. -0.060 13M/10stn Msd 0.2

01/6825
APR 30 104247.8s 38.29S 175.88E 158km M=4.2
0.2 0.01 0.01 2
Rsd 0.3s 85ph/55stn Dmin 11km Az.gap 100°
Corr. 0.311 13M/9stn Msd 0.2 27↑ 6↓

01/6834
APR 30 131820.4s 40.30S 173.47E 159km M=3.5
0.4 0.01 0.01 3
Rsd 0.2s 41ph/31stn Dmin 68km Az.gap 152°
Corr. -0.047 6M/6stn Msd 0.1 1↑

01/6837
APR 30 134732.2s 37.05S 177.77E 121km M=3.6
0.2 0.02 0.02 3
Rsd 0.1s 30ph/20stn Dmin 77km Az.gap 272°
Corr. -0.747 6M/6stn Msd 0.2 1↑

01/6838
APR 30 135236.0s 37.48S 176.55E 172km M=3.5
0.3 0.03 0.03 3
Rsd 0.1s 36ph/27stn Dmin 99km Az.gap 297°
Corr. -0.351 4M/4stn Msd 0.2

01/6923
MAY 02 042320.0s 35.99S 177.82E 228km M=3.9
0.6 0.08 0.08 8
Rsd 0.2s 9ph/7stn Dmin 259km Az.gap 340°
Corr. -0.487 1M/1stn Msd N.D.

01/6937
MAY 02 123056.3s 38.10S 176.23E 156km M=4.1
0.2 0.02 0.02 2
Rsd 0.3s 69ph/43stn Dmin 72km Az.gap 241°
Corr. -0.143 4M/4stn Msd 0.2 2↑

01/6952
MAY 02 215613.6s 36.94S 177.49E 163km M=3.9
0.5 0.05 0.05 6
Rsd 0.2s 22ph/17stn Dmin 150km Az.gap 326°
Corr. -0.089 2M/2stn Msd 0.1

01/6955
MAY 02 235737.9s 40.44S 173.46E 168km M=3.6
0.3 0.01 0.01 3
Rsd 0.2s 33ph/26stn Dmin 56km Az.gap 137°
Corr. -0.038 4M/4stn Msd 0.2 5↑ 5↓

01/6973
MAY 03 071137.8s 41.55S 173.69E 55km M=3.9
0.1 0.01 0.01 2
Rsd 0.2s 32ph/24stn Dmin 15km Az.gap 59°
Corr. -0.411 4M/3stn Msd 0.3 4↑ 7↓

01/7025
MAY 04 110648.5s 35.97S 178.38E 185km M=4.0
0.3 0.02 0.03 4
Rsd 0.1s 49ph/37stn Dmin 181km Az.gap 328°
Corr. -0.493 4M/4stn Msd 0.1 2↑ 2↓

01/7037
MAY 04 155143.8s 36.68S 176.81E 208km M=3.6
0.4 0.04 0.04 5
Rsd 0.2s 37ph/27stn Dmin 178km Az.gap 298°
Corr. -0.525 3M/3stn Msd 0.3 4↑ 1↓

01/7038
MAY 04 160701.7s 38.67S 177.47E 42km M=3.8
0.2 0.01 0.01 3
Rsd 0.4s 73ph/48stn Dmin 26km Az.gap 95°
Corr. 0.239 4M/2stn Msd 0.3 10↑ 10↓

01/7040
MAY 04 183415.7s 38.09S 175.73E 162km M=3.5
0.2 0.02 0.02 3
Rsd 0.2s 50ph/30stn Dmin 87km Az.gap 256°
Corr. -0.398 2M/2stn Msd 0.2 1↑

01/7041
MAY 04 184449.3s 37.80S 179.31E 18km M=3.7
0.1 0.00 0.00 1
Rsd 0.0s 21ph/14stn Dmin 91km Az.gap 296°
Corr. -0.270 13M/8stn Msd 0.1 5↑ 1↓

01/7044
MAY 04 191013.8s 37.78S 179.35E 19km M=3.6
0.2 0.01 0.01 1
Rsd 0.0s 17ph/12stn Dmin 95km Az.gap 297°
Corr. -0.371 9M/8stn Msd 0.2 1↓

01/7060
MAY 05 080955.9s 45.13S 167.21E 28km M=3.7
0.2 0.01 0.02 2
Rsd 0.2s 16ph/9stn Dmin 38km Az.gap 217°
Corr. -0.236 10M/6stn Msd 0.1 1↑ 4↓

01/7063
MAY 05 095010.4s 37.91S 175.70E 246km M=4.0
0.3 0.06 0.07 5
Rsd 0.1s 13ph/10stn Dmin 120km Az.gap 271°
Corr. -0.621 4M/4stn Msd 0.1

01/7089
MAY 06 005848.7s 37.25S 177.30E 130km M=3.6
0.2 0.02 0.02 2
Rsd 0.1s 31ph/22stn Dmin 96km Az.gap 259°
Corr. -0.434 2M/2stn Msd 0.2 4↑ 2↓

01/7099
MAY 06 060521.6s 42.53S 173.76E 33km M=3.7
0.2 0.01 0.01 5
Rsd 0.1s 30ph/20stn Dmin 91km Az.gap 166°
Corr. 0.228 6M/5stn Msd 0.2 1↑ 2↓

01/7149
MAY 06 232440.2s 37.95S 178.20E 12km M=3.5
0.3 0.01 0.02 R
Rsd 0.3s 26ph/21stn Dmin 15km Az.gap 148°
Corr. 0.339 9M/5stn Msd 0.2 5↑ 4↓

01/7153
MAY 07 043912.5s 39.66S 177.74E 33km M=3.5
0.1 0.01 0.01 R
Rsd 0.2s 68ph/40stn Dmin 49km Az.gap 212°
Corr. -0.630 31M/16stn Msd 0.2 2↑

01/7157
MAY 07 061332.4s 38.33S 176.10E 145km M=3.8
0.3 0.02 0.02 3
Rsd 0.3s 49ph/34stn Dmin 50km Az.gap 233°
Corr. -0.312 1M/1stn Msd N.D. 2↑

01/7158
MAY 07 064137.7s 38.25S 175.88E 159km M=3.5
0.3 0.03 0.02 3
Rsd 0.3s 50ph/34stn Dmin 86km Az.gap 226°
Corr. -0.302 4M/4stn Msd 0.1 2↑ 5↓

01/7159
MAY 07 070054.5s 47.49S 165.20E 33km M=3.9
0.6 0.04 0.04 R
Rsd 0.3s 14ph/8stn Dmin 233km Az.gap 320°
Corr. 0.081 10M/8stn Msd 0.2

01/7167
MAY 07 123313.5s 38.92S 174.99E 225km M=4.0
0.3 0.04 0.02 3
Rsd 0.2s 46ph/34stn Dmin 49km Az.gap 214°
Corr. -0.052 4M/4stn Msd 0.3 10↑ 2↓

01/7170
MAY 07 125553.1s 35.57S 179.24E 33km M=3.8
0.7 0.06 0.08 R
Rsd 0.2s 25ph/22stn Dmin 240km Az.gap 341°
Corr. -0.628 11M/11stn Msd 0.3

01/7186
MAY 07 174653.1s 39.55S 178.26E 28km M=4.2
0.2 0.01 0.02 1
Rsd 0.2s 69ph/49stn Dmin 48km Az.gap 223°
Corr. -0.249 34M/17stn Msd 0.3 11↑ 3↓

01/7195
MAY 07 210017.4s 36.07S 178.38E 211km M=3.9
0.7 0.09 0.06 14
Rsd 0.2s 22ph/19stn Dmin 268km Az.gap 336°
Corr. -0.102 1M/1stn Msd N.D. 1↑

01/7211
MAY 08 051601.8s 37.45S 176.32E 304km M=3.9
0.5 0.06 0.05 6
Rsd 0.2s 30ph/27stn Dmin 133km Az.gap 236°
Corr. -0.709 4M/4stn Msd 0.2 1↑ 1↓

01/7214
MAY 08 091932.2s 41.32S 172.79E 139km M=3.9
0.3 0.02 0.01 3
Rsd 0.2s 30ph/23stn Dmin 59km Az.gap 98°
Corr. -0.571 6M/6stn Msd 0.3 7↑ 4↓

01/7226
MAY 08 140529.0s 36.67S 178.23E 49km M=4.4
0.3 0.02 0.01 4
Rsd 0.1s 20ph/16stn Dmin 103km Az.gap 293°
Corr. 0.051 5M/3stn Msd 0.2 1↓

01/7243
MAY 08 235229.0s 37.92S 176.77E 133km M=4.1
0.2 0.01 0.01 2
Rsd 0.3s 80ph/54stn Dmin 11km Az.gap 134°
Corr. 0.109 7M/5stn Msd 0.3 2↑

01/7250
MAY 09 021137.9s 38.64S 175.66E 173km M=3.5
0.5 0.05 0.04 4
Rsd 0.3s 20ph/14stn Dmin 60km Az.gap 273°
Corr. 0.103 4M/4stn Msd 0.2 5↑ 3↓

01/7273
MAY 09 133802.2s 38.36S 176.09E 153km M=3.6
0.5 0.04 0.04 4
Rsd 0.3s 17ph/12stn Dmin 64km Az.gap 266°
Corr. -0.129 1M/1stn Msd N.D. 4↑ 1↓

01/7292
MAY 09 181028.4s 41.26S 172.70E 208km M=3.7
0.5 0.03 0.02 4
Rsd 0.2s 17ph/13stn Dmin 50km Az.gap 151°
Corr. -0.231 3M/3stn Msd 0.2 1↑

01/7304
MAY 09 235854.2s 37.74S 177.48E 106km M=4.5
0.2 0.01 0.01 2
Rsd 0.2s 91ph/64stn Dmin 35km Az.gap 126°
Corr. 0.391 10M/5stn Msd 0.4 2↑ 37↓
Felt Whakatane (27).

01/7305
MAY 10 030640.8s 37.86S 176.47E 140km M=3.5
0.3 0.02 0.02 3
Rsd 0.2s 46ph/28stn Dmin 86km Az.gap 236°
Corr. -0.498 1M/1stn Msd N.D. 2↑ 1↓

01/7312
MAY 10 053130.3s 38.37S 175.87E 146km M=3.6
0.3 0.02 0.02 2
Rsd 0.3s 47ph/28stn Dmin 54km Az.gap 219°
Corr. -0.166 3M/3stn Msd 0.2 1↑

01/7332
MAY 10 174455.8s 41.26S 173.27E 109km M=4.1
0.3 0.02 0.01 3
Rsd 0.2s 28ph/20stn Dmin 52km Az.gap 70°
Corr. -0.290 10M/7stn Msd 0.3 11↑ 3↓

01/7344
MAY 11 021218.3s 39.74S 174.69E 112km M=3.6
0.2 0.01 0.01 3
Rsd 0.3s 45ph/34stn Dmin 21km Az.gap 76°
Corr. -0.463 5M/5stn Msd 0.2 4↑ 2↓

01/7359
MAY 11 081121.3s 40.58S 173.44E 138km M=3.5
0.3 0.01 0.01 3
Rsd 0.2s 30ph/26stn Dmin 47km Az.gap 131°
Corr. 0.122 3M/3stn Msd 0.2 5↑ 1↓

01/7375
MAY 11 181914.5s 37.28S 178.07E 73km M=4.6
0.2 0.01 0.01 2
Rsd 0.1s 71ph/44stn Dmin 41km Az.gap 225°
Corr. 0.152 9M/7stn Msd 0.2 3↑ 4↓

01/7378
MAY 11 205425.0s 39.26S 174.85E 12km M=4.0
0.1 0.01 0.00 R
Rsd 0.3s 79ph/59stn Dmin 40km Az.gap 80°
Corr. -0.153 26M/14stn Msd 0.3 3↑ 2↓

01/7416
MAY 12 084620.2s 43.25S 171.07E 5km M=3.8
0.1 0.01 0.01 R
Rsd 0.2s 12ph/7stn Dmin 33km Az.gap 88°
Corr. 0.106 12M/7stn Msd 0.3 1↑ 2↓

01/7443
MAY 12 165945.5s 37.44S 177.91E 65km M=3.7
0.3 0.02 0.02 3
Rsd 0.2s 39ph/29stn Dmin 64km Az.gap 226°
Corr. 0.558 4M/2stn Msd 0.1 2↑ 6↓

01/7464
MAY 13 022421.1s 39.10S 174.95E 199km M=4.5
0.2 0.01 0.01 2
Rsd 0.3s 107ph/68stn Dmin 39km Az.gap 87°
Corr. 0.120 9M/5stn Msd 0.2 15↑ 25↓

01/7478
MAY 13 113028.9s 37.54S 177.17E 141km M=3.7
0.2 0.02 0.01 2
Rsd 0.2s 46ph/37stn Dmin 80km Az.gap 239°
Corr. 0.229 5M/5stn Msd 0.2 1↑

01/7500
MAY 13 225041.6s 37.70S 175.78E 258km M=3.7
0.7 0.05 0.07 7
Rsd 0.3s 16ph/13stn Dmin 133km Az.gap 277°
Corr. -0.605 6M/6stn Msd 0.3 1↑

01/7513
MAY 14 063020.8s 37.34S 177.08E 147km M=3.9
0.2 0.01 0.01 2
Rsd 0.1s 58ph/40stn Dmin 102km Az.gap 191°
Corr. 0.346 8M/7stn Msd 0.2 5↑ 3↓

01/7553
MAY 15 003012.7s 37.66S 178.17E 77km M=4.3
0.1 0.01 0.01 1
Rsd 0.1s 60ph/36stn Dmin 47km Az.gap 236°
Corr. 0.012 11M/8stn Msd 0.2 3↑ 11↓

01/7563
MAY 15 051512.4s 37.12S 176.79E 398km M=5.7
0.2 0.03 0.03 2
Rsd 0.1s 75ph/62stn Dmin 58km Az.gap 197°
Corr. 0.389 10M/5stn Msd 0.3 7↑ 43↓

01/7615
MAY 16 164506.3s 38.66S 175.53E 174km M=4.2
0.2 0.01 0.01 2
Rsd 0.3s 104ph/74stn Dmin 28km Az.gap 64°
Corr. 0.118 9M/5stn Msd 0.2 18↑ 33↓

01/7618
MAY 16 171147.2s 36.98S 177.57E 149km M=4.0
0.4 0.02 0.02 4
Rsd 0.1s 29ph/21stn Dmin 136km Az.gap 234°
Corr. 0.708 7M/5stn Msd 0.2 1↑

01/7654
MAY 17 084202.9s 35.63S 177.66E 33km M=4.3
2.0 0.12 0.17 R
Rsd 0.7s 5ph/3stn Dmin 276km Az.gap 336°
Corr. -0.018 2M/2stn Msd 0.8

01/7657
MAY 17 101108.5s 39.78S 179.07E 12km M=3.5
0.4 0.01 0.03 R
Rsd 0.2s 55ph/36stn Dmin 119km Az.gap 250°
Corr. -0.014 22M/12stn Msd 0.1 6↑ 3↓

01/7673
MAY 17 143636.9s 39.88S 174.03E 140km M=3.8
0.3 0.01 0.01 3
Rsd 0.3s 73ph/53stn Dmin 61km Az.gap 118°
Corr. -0.315 9M/8stn Msd 0.3 1↑

01/7704
MAY 17 174812.5s 38.65S 176.04E 2km M=2.0
0.1 0.01 0.01 1
Rsd 0.3s 35ph/27stn Dmin 1km Az.gap 111°
Corr. 0.493 5M/5stn Msd 0.4 1↑ 5↓
Felt Taupo (41). Largest of several small events felt at Taupo.

01/7741
MAY 18 052701.2s 39.66S 174.39E 157km M=4.5
0.3 0.01 0.01 2
Rsd 0.3s 75ph/67stn Dmin 42km Az.gap 82°
Corr. -0.358 14M/8stn Msd 0.3 15↑ 30↓

01/7757
MAY 18 105655.8s 43.41S 171.00E 5km M=5.5
0.2 0.01 0.01 R
Rsd 0.2s 16ph/11stn Dmin 43km Az.gap 85°
Corr. -0.230 42M/23stn Msd 0.3 11↑ 5↓
Felt throughout Westland and parts of Canterbury.

01/7791
MAY 19 051032.8s 38.09S 176.31E 151km M=3.7
0.4 0.02 0.02 3
Rsd 0.3s 41ph/30stn Dmin 58km Az.gap 202°
Corr. -0.093 4M/4stn Msd 0.3 1↑

01/7804
MAY 19 105039.6s 37.29S 177.99E 62km M=4.5
0.3 0.02 0.01 4
Rsd 0.2s 59ph/39stn Dmin 75km Az.gap 239°
Corr. 0.477 9M/5stn Msd 0.2 2↑ 6↓

01/7812
MAY 19 154003.9s 38.10S 176.50E 129km M=3.8
0.3 0.02 0.01 2
Rsd 0.3s 62ph/41stn Dmin 56km Az.gap 172°
Corr. 0.170 7M/5stn Msd 0.2 12↑ 1↓

01/7813
MAY 19 160515.5s 40.08S 173.56E 167km M=3.9
0.3 0.01 0.01 3
Rsd 0.2s 38ph/28stn Dmin 86km Az.gap 166°
Corr. -0.420 8M/7stn Msd 0.2 5↑ 5↓

01/7821
MAY 19 195054.6s 37.78S 179.90E 33km M=3.6
0.4 0.03 0.02 R
Rsd 0.2s 28ph/23stn Dmin 148km Az.gap 330°
Corr. 0.185 10M/10stn Msd 0.1

01/7840
MAY 20 133034.8s 38.44S 175.87E 165km M=4.1
0.2 0.01 0.01 2
Rsd 0.3s 72ph/46stn Dmin 9km Az.gap 103°
Corr. 0.179 11M/8stn Msd 0.2 33↑ 1↓

01/7841
MAY 20 134832.4s 38.08S 176.39E 135km M=3.6
0.3 0.02 0.02 3
Rsd 0.3s 42ph/27stn Dmin 66km Az.gap 258°
Corr. -0.344 4M/4stn Msd 0.1 11↑ 2↓

01/7853
MAY 21 002035.5s 41.79S 172.79E 76km M=4.1
0.2 0.02 0.01 2
Rsd 0.2s 27ph/19stn Dmin 10km Az.gap 98°
Corr. -0.138 9M/7stn Msd 0.2 2↑ 2↓
Felt St Arnaud (81).

01/7855
MAY 21 011251.8s 37.57S 176.21E 260km M=3.9
0.5 0.04 0.03 4
Rsd 0.2s 24ph/23stn Dmin 65km Az.gap 214°
Corr. -0.223 4M/4stn Msd 0.3 1↑

01/7864
MAY 21 095253.7s 37.29S 178.00E 76km M=3.9
0.3 0.02 0.02 4
Rsd 0.1s 27ph/19stn Dmin 90km Az.gap 240°
Corr. 0.384 4M/2stn Msd 0.1 2↑ 2↓

01/7868
MAY 21 140605.4s 37.20S 177.72E 62km M=4.2
0.2 0.01 0.01 2
Rsd 0.1s 48ph/38stn Dmin 59km Az.gap 229°
Corr. 0.508 11M/7stn Msd 0.1 1↑ 2↓

01/7877
MAY 21 175431.6s 37.94S 175.91E 252km M=4.7
0.3 0.02 0.02 2
Rsd 0.3s 76ph/50stn Dmin 33km Az.gap 102°
Corr. 0.559 13M/8stn Msd 0.4 4↑ 3↓

01/7881
MAY 21 215331.4s 37.83S 177.36E 108km M=5.2
0.2 0.01 0.01 2
Rsd 0.2s 106ph/74stn Dmin 37km Az.gap 133°
Corr. 0.469 10M/5stn Msd 0.3 19↑ 43↓
Felt Whakatane (27).

01/7884
MAY 22 015811.2s 41.72S 173.80E 13km M=5.0
0.2 0.01 0.01 1
Rsd 0.2s 32ph/25stn Dmin 7km Az.gap 107°
Corr. 0.016 60M/31stn Msd 0.3 10↑ 7↓
Felt from Nelson (76) and Blenheim (77) to Wellington (68).

01/7895
MAY 22 042405.4s 38.46S 176.02E 140km M=3.6
0.2 0.02 0.01 2
Rsd 0.3s 56ph/36stn Dmin 38km Az.gap 222°
Corr. -0.415 6M/6stn Msd 0.1 16↑ 1↓

01/7908
MAY 22 083027.2s 38.56S 175.72E 131km M=3.7
0.3 0.01 0.01 2
Rsd 0.3s 71ph/48stn Dmin 27km Az.gap 66°
Corr. 0.285 8M/6stn Msd 0.2 10↑ 2↓

01/7911
MAY 22 090131.1s 36.75S 177.81E 133km M=4.0
0.3 0.03 0.02 5
Rsd 0.2s 46ph/29stn Dmin 152km Az.gap 306°
Corr. -0.416 9M/7stn Msd 0.2 1↑ 1↓

01/7931
MAY 22 184720.5s 38.37S 175.96E 150km M=3.6
0.4 0.02 0.02 3
Rsd 0.3s 34ph/26stn Dmin 50km Az.gap 122°
Corr. 0.113 8M/6stn Msd 0.2 9↑ 1↓

01/7932
MAY 22 190431.0s 45.21S 166.83E 12km M=3.9
0.5 0.02 0.03 R
Rsd 0.4s 14ph/8stn Dmin 105km Az.gap 254°
Corr. -0.237 10M/6stn Msd 0.2 1↑ 1↓

01/7963
MAY 24 014003.8s 37.35S 177.56E 106km M=4.0
0.3 0.02 0.02 3
Rsd 0.2s 44ph/27stn Dmin 100km Az.gap 262°
Corr. -0.366 9M/7stn Msd 0.2 5↑ 2↓

01/7965
MAY 24 031655.1s 38.82S 175.45E 150km M=3.9
0.4 0.02 0.02 3
Rsd 0.4s 56ph/41stn Dmin 21km Az.gap 136°
Corr. 0.312 8M/6stn Msd 0.2 1↑ 12↓

01/7971
MAY 24 104153.5s 41.40S 173.13E 97km M=3.7
0.3 0.03 0.01 4
Rsd 0.3s 23ph/16stn Dmin 44km Az.gap 146°
Corr. -0.674 5M/5stn Msd 0.2

01/7983
MAY 24 175704.5s 37.22S 177.27E 132km M=3.9
0.3 0.03 0.02 4
Rsd 0.1s 25ph/18stn Dmin 116km Az.gap 317°
Corr. 0.346 5M/5stn Msd 0.2 2↑ 3↓

01/7985
MAY 24 180757.9s 38.75S 175.20E 238km M=6.5
0.2 0.01 0.01 2
Rsd 0.3s 106ph/85stn Dmin 37km Az.gap 58°
Corr. 0.006 10M/5stn Msd 0.1 36↑ 26↓
Felt widely from central North Island to Wellington.

01/8001
MAY 25 035958.7s 39.23S 174.92E 168km M=4.4
0.3 0.01 0.01 3
Rsd 0.3s 64ph/44stn Dmin 46km Az.gap 87°
Corr. 0.054 8M/8stn Msd 0.3 10↑ 8↓

01/8010
MAY 25 112552.4s 38.21S 176.01E 167km M=4.7
0.2 0.01 0.01 2
Rsd 0.3s 107ph/71stn Dmin 16km Az.gap 68°
Corr. 0.211 13M/8stn Msd 0.2 43↑ 3↓

01/8030
MAY 26 000835.9s 38.79S 175.74E 136km M=4.2
0.3 0.01 0.01 2
Rsd 0.4s 79ph/49stn Dmin 30km Az.gap 59°
Corr. 0.147 10M/8stn Msd 0.3 23↑ 7↓

01/8035
MAY 26 025742.9s 38.29S 175.93E 154km M=3.8
0.3 0.03 0.02 3
Rsd 0.3s 33ph/24stn Dmin 80km Az.gap 238°
Corr. -0.470 4M/4stn Msd 0.1 5↑ 3↓

01/8037
MAY 26 064704.8s 38.39S 175.82E 140km M=3.8
0.4 0.03 0.02 4
Rsd 0.3s 34ph/22stn Dmin 72km Az.gap 136°
Corr. -0.318 7M/7stn Msd 0.3 3↑ 2↓

01/8052
MAY 26 135814.3s 45.02S 167.43E 107km M=4.1
0.3 0.02 0.02 2
Rsd 0.2s 17ph/10stn Dmin 54km Az.gap 202°
Corr. -0.343 13M/7stn Msd 0.2 6↑ 1↓

01/8062
MAY 26 154144.5s 37.18S 177.30E 131km M=3.8
0.4 0.05 0.03 4
Rsd 0.1s 14ph/12stn Dmin 122km Az.gap 330°
Corr. 0.619 1M/1stn Msd N.D. 1↑

01/8071
MAY 26 193302.1s 38.40S 178.95E 12km M=3.9
0.3 0.01 0.02 R
Rsd 0.1s 15ph/11stn Dmin 70km Az.gap 290°
Corr. 0.152 3M/3stn Msd 0.8 1↑

01/8084
MAY 27 034606.5s 36.95S 176.74E 215km M=3.5
0.7 0.07 0.05 5
Rsd 0.2s 11ph/9stn Dmin 149km Az.gap 310°
Corr. -0.490 2M/2stn Msd 0.2

01/8085
MAY 27 044046.8s 36.53S 177.33E 204km M=3.6
1.1 0.14 0.04 8
Rsd 0.2s 19ph/18stn Dmin 193km Az.gap 327°
Corr. -0.257 3M/3stn Msd 0.2 1↑ 1↓

01/8087
MAY 27 054130.7s 40.53S 175.18E 5km M=2.4
0.1 0.01 0.01 R
Rsd 0.3s 17ph/14stn Dmin 37km Az.gap 118°
Corr. -0.365 5M/5stn Msd 0.2 1↓
Felt Waitarere Beach (65).

01/8096
MAY 27 093137.1s 39.29S 173.87E 12km M=3.7
0.2 0.01 0.01 1
Rsd 0.2s 51ph/40stn Dmin 2km Az.gap 134°
Corr. -0.055 17M/9stn Msd 0.2 6↑ 5↓
Felt New Plymouth and district (46. 47).

01/8114
MAY 27 150615.5s 39.86S 174.09E 163km M=3.7
0.3 0.01 0.01 3
Rsd 0.2s 29ph/21stn Dmin 59km Az.gap 113°
Corr. -0.291 5M/5stn Msd 0.3 1↓

01/8123
MAY 27 210923.7s 41.32S 172.66E 191km M=4.3
0.4 0.03 0.02 3
Rsd 0.2s 28ph/22stn Dmin 54km Az.gap 149°
Corr. -0.715 7M/7stn Msd 0.2 11↑ 2↓

01/8135
MAY 28 025839.1s 40.06S 172.96E 5km M=3.5
0.2 0.01 0.01 R
Rsd 0.2s 30ph/24stn Dmin 93km Az.gap 195°
Corr. -0.654 20M/15stn Msd 0.3

01/8142
MAY 28 054810.4s 38.64S 175.63E 171km M=3.8
0.4 0.04 0.03 4
Rsd 0.2s 18ph/13stn Dmin 40km Az.gap 254°
Corr. 0.267 4M/4stn Msd 0.3 4↑ 5↓

01/8149
MAY 28 081157.9s 41.43S 173.21E 100km M=3.9
0.4 0.02 0.01 4
Rsd 0.3s 24ph/17stn Dmin 45km Az.gap 77°
Corr. -0.237 6M/6stn Msd 0.2 7↑ 1↓

01/8171
MAY 28 221620.3s 37.45S 179.89W 12km M=3.8
0.9 0.07 0.06 R
Rsd 0.4s 9ph/5stn Dmin 177km Az.gap 336°
Corr. -0.159 5M/3stn Msd 0.2 1↑

01/8189
MAY 29 023927.4s 37.71S 176.32E 303km M=5.2
0.4 0.03 0.02 3
Rsd 0.3s 78ph/71stn Dmin 33km Az.gap 131°
Corr. 0.248 12M/7stn Msd 0.3 16↑ 4↓

01/8208
MAY 29 093544.9s 36.73S 177.48E 215km M=4.2
0.4 0.04 0.03 5
Rsd 0.2s 34ph/28stn Dmin 164km Az.gap 304°
Corr. -0.372 4M/4stn Msd 0.1 1↑ 5↓

01/8251
MAY 30 023809.6s 37.86S 176.54E 113km M=3.5
0.4 0.03 0.03 4
Rsd 0.2s 15ph/11stn Dmin 67km Az.gap 291°
Corr. -0.401 1M/1stn Msd N.D. 1↑

01/8272
MAY 30 151237.5s 38.72S 175.28E 208km M=4.5
0.2 0.02 0.01 2
Rsd 0.3s 92ph/60stn Dmin 37km Az.gap 70°
Corr. 0.180 14M/8stn Msd 0.2 23↑ 3↓

01/8288
MAY 31 000734.1s 41.07S 174.35E 73km M=3.5
0.1 0.01 0.01 2
Rsd 0.2s 48ph/37stn Dmin 17km Az.gap 57°
Corr. -0.219 8M/6stn Msd 0.3 7↑ 5↓

01/8295
MAY 31 024340.8s 39.63S 173.99E 206km M=3.6
0.5 0.02 0.03 4
Rsd 0.3s 35ph/27stn Dmin 131km Az.gap 167°
Corr. -0.590 5M/5stn Msd 0.4 2↑ 3↓

01/8296
MAY 31 032539.3s 39.05S 174.76E 212km M=3.6
0.5 0.07 0.03 8
Rsd 0.3s 17ph/13stn Dmin 193km Az.gap 296°
Corr. -0.219 5M/5stn Msd 0.2 1↓
Poor station coverage.

01/8312
MAY 31 143800.6s 44.30S 168.31E 5km M=3.9
0.3 0.02 0.01 R
Rsd 0.2s 16ph/10stn Dmin 52km Az.gap 187°
Corr. -0.513 13M/8stn Msd 0.2 3↑ 1↓

01/8314
MAY 31 144859.9s 37.53S 176.06E 276km M=3.7
0.4 0.04 0.05 4
Rsd 0.1s 24ph/22stn Dmin 109km Az.gap 290°
Corr. -0.556 4M/4stn Msd 0.2 2↑ 1↓

01/8334
MAY 31 233659.3s 37.86S 179.45E 12km M=3.6
0.2 0.02 0.01 R
Rsd 0.1s 22ph/14stn Dmin 107km Az.gap 320°
Corr. 0.136 11M/7stn Msd 0.1 1↑

01/8335
MAY 31 233741.3s 38.89S 175.49E 119km M=3.5
0.3 0.02 0.03 2
Rsd 0.2s 24ph/17stn Dmin 13km Az.gap 101°
Corr. 0.420 5M/5stn Msd 0.2 1↓

01/8338
JUN 01 010122.7s 37.94S 176.59E 126km M=3.6
0.4 0.03 0.02 3
Rsd 0.2s 15ph/11stn Dmin 58km Az.gap 276°
Corr. -0.448 1M/1stn Msd N.D. 1↑

01/8357
JUN 01 074546.7s 40.71S 174.20E 77km M=4.7
0.2 0.01 0.01 3
Rsd 0.2s 66ph/50stn Dmin 25km Az.gap 86°
Corr. 0.161 10M/5stn Msd 0.3 28↑ 12↓
Felt Nelson (76) and Blenheim (77).

01/8381
JUN 01 165604.7s 36.97S 176.59E 309km M=3.7
0.6 0.06 0.05 6
Rsd 0.3s 27ph/25stn Dmin 151km Az.gap 315°
Corr. -0.369 2M/2stn Msd 0.3 1↑

01/8388
JUN 01 193232.1s 41.22S 172.91E 116km M=3.8
0.4 0.02 0.01 4
Rsd 0.3s 26ph/20stn Dmin 54km Az.gap 87°
Corr. -0.325 6M/6stn Msd 0.2 1↑

01/8390
JUN 01 215257.2s 36.35S 177.14E 5km M=4.0
0.7 0.05 0.03 R
Rsd 0.4s 9ph/6stn Dmin 134km Az.gap 262°
Corr. 0.605 4M/4stn Msd 0.4

01/8391
JUN 01 220822.0s 36.38S 177.14E 5km M=3.8
0.7 0.05 0.02 R
Rsd 0.3s 8ph/5stn Dmin 133km Az.gap 260°
Corr. 0.629 3M/3stn Msd 0.3

01/8401
JUN 02 020940.6s 35.16S 178.52E 187km M=4.1
1.0 0.13 0.05 17
Rsd 0.1s 16ph/15stn Dmin 324km Az.gap 335°
Corr. 0.591 3M/3stn Msd 0.2

01/8424
JUN 02 162828.4s 37.58S 179.92E 12km M=3.9
0.3 0.03 0.02 R
Rsd 0.1s 40ph/31stn Dmin 156km Az.gap 298°
Corr. 0.023 14M/8stn Msd 0.2 3↑ 2↓

01/8445
JUN 03 024157.4s 29.81S 178.58W 185km M=7.3
0.1 R R R
Rsd 0.7s 65ph/53stn Dmin 934km Az.gap 339°
Corr. R 10M/5stn Msd 0.1
Felt over much of the North Island.

01/8468
JUN 03 064052.4s 36.13S 178.97E 163km M=4.1
0.4 0.05 0.03 5
Rsd 0.1s 19ph/18stn Dmin 224km Az.gap 337°
Corr. 0.048 2M/2stn Msd 0.0 1↓

01/8472
JUN 03 072651.6s 37.01S 177.51E 88km M=3.5
0.6 0.05 0.05 4
Rsd 0.1s 20ph/15stn Dmin 143km Az.gap 298°
Corr. -0.545 2M/2stn Msd 0.2 1↓

01/8491
JUN 03 122832.1s 38.55S 175.25E 243km M=3.6
0.6 0.06 0.05 6
Rsd 0.3s 23ph/20stn Dmin 56km Az.gap 221°
Corr. -0.330 5M/5stn Msd 0.3 1↓

01/8503
JUN 03 170156.5s 38.42S 175.79E 172km M=3.6
0.3 0.01 0.02 2
Rsd 0.3s 56ph/39stn Dmin 13km Az.gap 139°
Corr. 0.235 5M/5stn Msd 0.2 6↑ 6↓

01/8521
JUN 04 004917.4s 39.34S 174.47E 240km M=4.0
0.4 0.02 0.03 4
Rsd 0.3s 57ph/49stn Dmin 64km Az.gap 176°
Corr. -0.174 9M/7stn Msd 0.3 8↑ 13↓

01/8526
JUN 04 024134.1s 38.49S 178.84E 27km M=4.0
0.2 0.01 0.02 3
Rsd 0.1s 51ph/42stn Dmin 69km Az.gap 269°
Corr. 0.551 35M/19stn Msd 0.2 7↑ 3↓

01/8562
JUN 04 143939.2s 37.31S 177.76E 95km M=3.6
0.2 0.02 0.01 2
Rsd 0.1s 34ph/23stn Dmin 95km Az.gap 288°
Corr. -0.580 4M/4stn Msd 0.2 3↑ 1↓

01/8565
JUN 04 152449.0s 45.08S 167.56E 115km M=3.6
0.5 0.02 0.02 4
Rsd 0.3s 16ph/10stn Dmin 53km Az.gap 177°
Corr. -0.176 11M/6stn Msd 0.1 4↑ 2↓

01/8583
JUN 04 221434.1s 36.67S 177.28E 274km M=3.5
0.8 0.12 0.09 7
Rsd 0.2s 13ph/12stn Dmin 177km Az.gap 330°
Corr. -0.621 2M/2stn Msd 0.1

01/8597
JUN 05 063400.8s 38.50S 175.80E 158km M=3.7
0.3 0.03 0.02 3
Rsd 0.3s 36ph/25stn Dmin 49km Az.gap 215°
Corr. -0.250 4M/4stn Msd 0.1 8↑ 1↓

01/8677
JUN 06 161925.5s 42.29S 174.12E 20km M=3.7
0.3 0.01 0.01 2
Rsd 0.2s 28ph/20stn Dmin 61km Az.gap 169°
Corr. -0.655 14M/7stn Msd 0.2 4↑ 3↓

01/8716
JUN 07 054251.4s 47.36S 165.82E 12km M=3.9
0.8 0.04 0.05 R
Rsd 0.4s 12ph/7stn Dmin 184km Az.gap 312°
Corr. 0.207 10M/7stn Msd 0.2 1↑

01/8790
JUN 08 081553.4s 38.91S 175.01E 196km M=4.5
0.2 0.02 0.01 2
Rsd 0.3s 93ph/59stn Dmin 37km Az.gap 88°
Corr. 0.114 13M/8stn Msd 0.3 16↑ 9↓

01/8814
JUN 09 003702.0s 39.49S 174.35E 211km M=4.2
0.3 0.01 0.02 3
Rsd 0.2s 52ph/41stn Dmin 61km Az.gap 154°
Corr. -0.408 6M/6stn Msd 0.3 4↑ 9↓

01/8817
JUN 09 055558.8s 38.07S 176.29E 158km M=4.2
0.4 0.02 0.03 4
Rsd 0.3s 22ph/16stn Dmin 72km Az.gap 169°
Corr. 0.254 1M/1stn Msd N.D. 4↑ 1↓

01/8821
JUN 09 105327.6s 38.12S 175.59E 270km M=4.3
0.4 0.04 0.03 4
Rsd 0.2s 38ph/29stn Dmin 25km Az.gap 240°
Corr. 0.209 4M/3stn Msd 0.2 1↑

01/8833
JUN 09 190342.8s 39.30S 175.11E 119km M=3.6
0.3 0.01 0.01 3
Rsd 0.3s 44ph/33stn Dmin 56km Az.gap 146°
Corr. -0.305 3M/3stn Msd 0.2 1↑ 3↓

01/8835
JUN 09 190811.2s 45.40S 167.21E 101km M=3.6
0.4 0.02 0.02 3
Rsd 0.2s 12ph/7stn Dmin 9km Az.gap 186°
Corr. -0.110 8M/5stn Msd 0.2 3↑ 1↓

01/8836
JUN 09 201242.2s 37.05S 177.68E 141km M=3.7
0.8 0.08 0.04 10
Rsd 0.3s 25ph/21stn Dmin 191km Az.gap 323°
Corr. 0.099 4M/4stn Msd 0.1 1↑

01/8838
JUN 09 211030.6s 45.44S 167.28E 130km M=3.6
0.5 0.02 0.02 3
Rsd 0.3s 13ph/8stn Dmin 11km Az.gap 139°
Corr. -0.043 6M/6stn Msd 0.2 1↑ 1↓

01/8842
JUN 10 002025.7s 40.73S 172.95E 192km M=3.9
0.4 0.03 0.02 3
Rsd 0.2s 24ph/18stn Dmin 37km Az.gap 160°
Corr. -0.041 7M/7stn Msd 0.4 1↑ 5↓

01/8906
JUN 11 111440.6s 38.12S 176.26E 156km M=4.1
0.3 0.02 0.01 2
Rsd 0.3s 64ph/40stn Dmin 36km Az.gap 178°
Corr. 0.212 9M/7stn Msd 0.2 14↑ 2↓

01/8911
JUN 11 124150.3s 38.48S 175.96E 145km M=3.9
0.3 0.02 0.02 3
Rsd 0.3s 50ph/35stn Dmin 40km Az.gap 239°
Corr. 0.119 6M/6stn Msd 0.3 7↑ 2↓

01/8922
JUN 11 163620.8s 46.54S 165.18E 33km M=3.8
0.8 0.04 0.05 R
Rsd 0.3s 13ph/7stn Dmin 194km Az.gap 306°
Corr. -0.287 13M/7stn Msd 0.2

01/8929
JUN 11 195233.7s 38.34S 176.08E 149km M=3.8
0.3 0.02 0.02 2
Rsd 0.3s 48ph/32stn Dmin 49km Az.gap 225°
Corr. -0.013 6M/6stn Msd 0.3 2↑

01/8945
JUN 12 050001.7s 40.96S 174.63E 58km M=4.8
0.1 0.01 0.01 1
Rsd 0.2s 65ph/51stn Dmin 26km Az.gap 55°
Corr. -0.043 8M/4stn Msd 0.3 28↑ 7↓
Felt Otaki (65), Wellington (68) and Marlborough Sounds (78).

01/8968
JUN 12 170203.2s 35.32S 178.58E 226km M=3.9
0.4 0.05 0.05 8
Rsd 0.1s 21ph/18stn Dmin 307km Az.gap 334°
Corr. -0.435 1M/1stn Msd N.D. 1↓

01/8997
JUN 13 065848.8s 39.27S 174.76E 21km M=3.5
0.1 0.01 0.01 1
Rsd 0.3s 46ph/33stn Dmin 60km Az.gap 99°
Corr. -0.064 17M/9stn Msd 0.2 5↑ 2↓

01/9009
JUN 13 133021.1s 37.70S 179.19E 21km M=3.5
0.2 0.01 0.01 1
Rsd 0.1s 25ph/14stn Dmin 92km Az.gap 323°
Corr. -0.334 12M/11stn Msd 0.3 1↑

01/9014
JUN 13 150934.4s 36.86S 177.33E 184km M=3.5
0.5 0.04 0.05 6
Rsd 0.2s 18ph/13stn Dmin 156km Az.gap 313°
Corr. -0.513 1M/1stn Msd N.D. 1↑

01/9028
JUN 14 004544.2s 40.19S 173.51E 204km M=3.6
0.5 0.04 0.02 5
Rsd 0.3s 22ph/17stn Dmin 76km Az.gap 183°
Corr. -0.152 3M/3stn Msd 0.3 3↑ 1↓

01/9029
JUN 14 013718.0s 37.57S 176.20E 190km M=3.5
0.3 0.03 0.02 4
Rsd 0.1s 34ph/26stn Dmin 125km Az.gap 271°
Corr. -0.352 4M/4stn Msd 0.0 1↑

01/9039
JUN 14 050914.8s 39.54S 174.41E 214km M=4.1
0.3 0.01 0.02 3
Rsd 0.2s 67ph/51stn Dmin 29km Az.gap 84°
Corr. -0.271 8M/8stn Msd 0.2 18↑ 5↓

01/9046
JUN 14 092057.7s 36.28S 177.61E 215km M=3.8
0.3 0.04 0.04 5
Rsd 0.2s 37ph/28stn Dmin 207km Az.gap 315°
Corr. -0.441 2M/2stn Msd 0.0 1↑

01/9053
JUN 14 115215.8s 40.59S 174.22E 70km M=3.6
0.2 0.01 0.01 5
Rsd 0.3s 50ph/37stn Dmin 35km Az.gap 91°
Corr. -0.022 10M/7stn Msd 0.4 1↑ 2↓

01/9098
JUN 15 074504.9s 40.19S 173.52E 162km M=3.8
0.3 0.02 0.01 3
Rsd 0.2s 45ph/32stn Dmin 76km Az.gap 161°
Corr. -0.218 7M/7stn Msd 0.2 11↑ 2↓

01/9168
JUN 16 223631.3s 40.84S 176.77E 29km M=3.7
0.2 0.01 0.01 2
Rsd 0.2s 49ph/37stn Dmin 48km Az.gap 205°
Corr. -0.774 19M/10stn Msd 0.2 7↑ 2↓

01/9183
JUN 17 072551.6s 40.37S 173.58E 132km M=4.1
0.3 0.01 0.01 3
Rsd 0.2s 44ph/34stn Dmin 56km Az.gap 132°
Corr. 0.023 12M/8stn Msd 0.3 10↑ 5↓

01/9207
JUN 17 165839.6s 38.71S 175.97E 114km M=3.6
0.3 0.02 0.01 3
Rsd 0.3s 43ph/26stn Dmin 15km Az.gap 73°
Corr. -0.062 2M/2stn Msd 0.2 12↑ 4↓

01/9209
JUN 17 190027.8s 45.12S 167.40E 111km M=3.8
0.5 0.02 0.02 4
Rsd 0.2s 14ph/8stn Dmin 43km Az.gap 195°
Corr. -0.120 13M/7stn Msd 0.2 4↑ 1↓

01/9211
JUN 17 194237.4s 41.88S 174.13E 35km M=3.7
0.1 0.02 0.01 3
Rsd 0.2s 27ph/20stn Dmin 16km Az.gap 147°
Corr. -0.366 8M/5stn Msd 0.2 3↑ 7↓

01/9212
JUN 17 194254.1s 41.81S 174.09E 29km M=3.5
0.2 0.01 0.01 1
Rsd 0.1s 13ph/8stn Dmin 13km Az.gap 216°
Corr. -0.086 9M/6stn Msd 0.2

01/9227
JUN 18 045059.1s 38.19S 176.24E 147km M=3.6
0.4 0.03 0.04 3
Rsd 0.3s 28ph/19stn Dmin 64km Az.gap 241°
Corr. -0.036 2M/2stn Msd 0.3 4↑ 2↓

01/9239
JUN 18 111705.3s 38.26S 175.75E 154km M=3.6
0.9 0.07 0.14 14
Rsd 0.5s 12ph/10stn Dmin 119km Az.gap 248°
Corr. -0.718 1M/1stn Msd N.D. 1↓
Poor station coverage.

01/9248
JUN 18 155010.5s 37.35S 176.72E 161km M=3.9
0.5 0.05 0.04 4
Rsd 0.1s 18ph/16stn Dmin 140km Az.gap 273°
Corr. -0.750 3M/3stn Msd 0.3

01/9256
JUN 18 205727.9s 38.24S 176.22E 161km M=4.3
0.2 0.01 0.01 2
Rsd 0.3s 69ph/48stn Dmin 7km Az.gap 52°
Corr. 0.405 8M/4stn Msd 0.2 2↑

01/9270
JUN 19 074200.0s 37.61S 176.31E 197km M=3.6
0.4 0.04 0.04 3
Rsd 0.1s 7ph/5stn Dmin 101km Az.gap 321°
Corr. -0.085 2M/2stn Msd 0.1

01/9276
JUN 19 082730.5s 38.77S 175.93E 5km M=3.5
0.1 0.01 0.01 R
Rsd 0.5s 75ph/63stn Dmin 11km Az.gap 32°
Corr. 0.140 37M/20stn Msd 0.3 19↑ 2↓
Felt Taupo (41).

01/9282
JUN 19 092412.7s 37.30S 176.26E 201km M=3.7
0.2 0.03 0.03 3
Rsd 0.1s 20ph/17stn Dmin 131km Az.gap 287°
Corr. -0.438 6M/6stn Msd 0.2

01/9301
JUN 19 163557.4s 38.08S 175.98E 186km M=4.4
0.2 0.01 0.01 2
Rsd 0.2s 77ph/47stn Dmin 12km Az.gap 99°
Corr. 0.571 14M/9stn Msd 0.3 14↑ 4↓

01/9310
JUN 19 210620.1s 39.97S 173.27E 12km M=3.6
0.1 0.01 0.01 R
Rsd 0.3s 30ph/24stn Dmin 90km Az.gap 181°
Corr. -0.599 12M/7stn Msd 0.2

01/9313
JUN 19 235420.4s 37.95S 176.24E 152km M=3.9
0.4 0.02 0.02 4
Rsd 0.2s 23ph/17stn Dmin 69km Az.gap 165°
Corr. -0.287 5M/5stn Msd 0.1 2↑ 3↓

01/9318
JUN 20 021939.0s 37.46S 179.10W 33km M=3.9
0.9 0.11 0.06 R
Rsd 0.3s 11ph/8stn Dmin 320km Az.gap 337°
Corr. -0.491 3M/3stn Msd 0.1

01/9319
JUN 20 030204.3s 38.60S 176.65E 65km M=3.7
0.2 0.01 0.01 2
Rsd 0.4s 66ph/49stn Dmin 38km Az.gap 46°
Corr. 0.452 8M/8stn Msd 0.3 2↑

01/9321
JUN 20 055149.1s 37.15S 176.76E 185km M=3.8
0.9 0.08 0.05 14
Rsd 0.1s 16ph/12stn Dmin 168km Az.gap 284°
Corr. -0.801 3M/3stn Msd 0.1

01/9323
JUN 20 072156.6s 37.94S 176.21E 178km M=3.8
0.3 0.02 0.02 3
Rsd 0.2s 37ph/29stn Dmin 54km Az.gap 184°
Corr. 0.502 5M/5stn Msd 0.1 7↑ 1↓

01/9360
JUN 20 214926.2s 46.05S 166.14E 5km M=3.5
0.5 0.03 0.03 R
Rsd 0.3s 13ph/7stn Dmin 102km Az.gap 314°
Corr. 0.157 10M/7stn Msd 0.2 1↓

01/9369
JUN 21 020758.2s 45.14S 167.43E 115km M=3.5
0.4 0.02 0.02 3
Rsd 0.2s 14ph/7stn Dmin 42km Az.gap 186°
Corr. -0.132 10M/6stn Msd 0.1 1↑

01/9381
JUN 21 092413.6s 43.14S 170.68E 8km M=3.7
0.2 0.01 0.01 1
Rsd 0.2s 15ph/9stn Dmin 8km Az.gap 151°
Corr. -0.157 20M/14stn Msd 0.3 2↑ 1↓

01/9385
JUN 21 120959.2s 38.20S 177.33E 62km M=3.7
0.2 0.01 0.01 3
Rsd 0.3s 59ph/45stn Dmin 20km Az.gap 90°
Corr. 0.520 2M/2stn Msd 0.1 6↑ 13↓

01/9386
JUN 21 123342.6s 38.17S 178.60E 17km M=4.2
0.4 0.01 0.03 2
Rsd 0.2s 44ph/37stn Dmin 32km Az.gap 267°
Corr. 0.565 34M/18stn Msd 0.2 4↑ 1↓

01/9389
JUN 21 130123.9s 39.23S 174.94E 194km M=3.5
0.4 0.04 0.04 5
Rsd 0.1s 13ph/11stn Dmin 58km Az.gap 244°
Corr. -0.640 4M/4stn Msd 0.2 1↑

01/9393
JUN 21 135506.6s 35.41S 178.95E 189km M=3.9
0.7 0.05 0.08 14
Rsd 0.1s 17ph/14stn Dmin 302km Az.gap 340°
Corr. -0.422 2M/2stn Msd 0.0

01/9398
JUN 21 204241.5s 38.08S 176.28E 143km M=3.8
0.4 0.03 0.04 3
Rsd 0.2s 22ph/15stn Dmin 75km Az.gap 260°
Corr. -0.117 1M/1stn Msd N.D. 5↑ 3↓

01/9413
JUN 22 051817.3s 38.57S 175.89E 137km M=3.9
0.6 0.02 0.03 5
Rsd 0.3s 18ph/13stn Dmin 38km Az.gap 139°
Corr. 0.151 3M/3stn Msd 0.1 2↑ 2↓

01/9419
JUN 22 073711.1s 44.87S 167.66E 77km M=3.7
0.3 0.01 0.01 2
Rsd 0.2s 15ph/8stn Dmin 31km Az.gap 193°
Corr. -0.319 9M/5stn Msd 0.2 2↑ 6↓

01/9430
JUN 22 132042.5s 38.42S 175.78E 142km M=3.6
0.5 0.03 0.03 4
Rsd 0.2s 17ph/14stn Dmin 80km Az.gap 136°
Corr. -0.255 3M/3stn Msd 0.1 1↑

01/9445
JUN 22 212949.2s 40.26S 173.46E 173km M=3.6
0.6 0.05 0.02 5
Rsd 0.3s 21ph/16stn Dmin 72km Az.gap 181°
Corr. 0.044 7M/7stn Msd 0.2 1↑

01/9450
JUN 23 020619.4s 37.42S 177.58E 74km M=3.9
0.3 0.02 0.01 2
Rsd 0.2s 48ph/37stn Dmin 37km Az.gap 251°
Corr. 0.481 6M/6stn Msd 0.1 3↑ 6↓

01/9470
JUN 23 145517.5s 37.20S 176.58E 206km M=4.2
0.4 0.03 0.02 4
Rsd 0.1s 33ph/25stn Dmin 126km Az.gap 264°
Corr. -0.538 4M/4stn Msd 0.1 7↑ 2↓

01/9471
JUN 23 151845.0s 36.64S 177.46E 182km M=3.6
0.5 0.08 0.10 13
Rsd 0.3s 21ph/15stn Dmin 174km Az.gap 322°
Corr. -0.853 1M/1stn Msd N.D.

01/9489
JUN 23 211921.9s 37.88S 177.14E 75km M=3.7
0.2 0.01 0.01 3
Rsd 0.2s 35ph/29stn Dmin 39km Az.gap 105°
Corr. 0.096 1M/1stn Msd N.D. 2↑ 1↓

01/9494
JUN 24 000751.9s 38.43S 175.99E 153km M=3.7
0.3 0.02 0.02 3
Rsd 0.2s 38ph/28stn Dmin 43km Az.gap 231°
Corr. -0.026 7M/7stn Msd 0.2 2↑

01/9507
JUN 24 094415.9s 39.75S 174.61E 105km M=3.6
0.2 0.01 0.02 3
Rsd 0.3s 38ph/29stn Dmin 28km Az.gap 82°
Corr. -0.311 4M/4stn Msd 0.4 6↑ 1↓

01/9522
JUN 24 204702.8s 42.40S 173.42E 13km M=4.7
0.2 0.01 0.01 2
Rsd 0.3s 31ph/23stn Dmin 22km Az.gap 106°
Corr. -0.081 27M/14stn Msd 0.2 7↑ 6↓
Felt Ferniehurst (96).

01/9523
JUN 24 204841.8s 42.43S 173.43E 12km M=4.1
0.1 0.01 0.01 R
Rsd 0.3s 25ph/17stn Dmin 86km Az.gap 150°
Corr. -0.367 12M/7stn Msd 0.2

01/9551
JUN 25 155158.1s 38.52S 175.85E 142km M=4.6
0.2 0.01 0.01 2
Rsd 0.2s 75ph/50stn Dmin 11km Az.gap 63°
Corr. 0.316 8M/4stn Msd 0.2 31↑ 4↓

01/9555
JUN 25 163358.1s 38.27S 175.81E 131km M=3.9
0.3 0.02 0.02 4
Rsd 0.2s 25ph/16stn Dmin 93km Az.gap 236°
Corr. -0.328 6M/6stn Msd 0.2

01/9563
JUN 26 000315.8s 35.40S 179.38E 33km M=3.8
1.1 0.09 0.12 R
Rsd 0.3s 8ph/5stn Dmin 313km Az.gap 342°
Corr. -0.407 2M/2stn Msd 0.1

01/9583
JUN 26 155244.3s 36.83S 176.90E 178km M=3.5
0.4 0.07 0.16 7
Rsd 0.1s 12ph/9stn Dmin 160km Az.gap 338°
Corr. -0.767 1M/1stn Msd N.D. 1↓

01/9589
JUN 27 004930.4s 39.68S 174.03E 139km M=3.6
0.4 0.01 0.02 5
Rsd 0.2s 32ph/25stn Dmin 79km Az.gap 162°
Corr. -0.459 6M/6stn Msd 0.3 4↑ 2↓

01/9594
JUN 27 061158.1s 37.56S 176.56E 195km M=4.6
0.4 0.02 0.02 3
Rsd 0.2s 40ph/31stn Dmin 48km Az.gap 126°
Corr. 0.393 8M/4stn Msd 0.2 6↑ 1↓

01/9613
JUN 27 181706.2s 37.77S 176.27E 184km M=3.5
0.6 0.04 0.08 5
Rsd 0.2s 7ph/4stn Dmin 92km Az.gap 318°
Corr. 0.116 1M/1stn Msd N.D. 1↓

01/9629
JUN 28 033644.0s 38.82S 176.01E 94km M=3.6
0.2 0.01 0.01 2
Rsd 0.2s 33ph/24stn Dmin 10km Az.gap 47°
Corr. -0.018 4M/4stn Msd 0.2 5↑ 1↓

01/9654
JUN 29 005506.4s 37.79S 176.91E 139km M=4.2
0.4 0.02 0.02 3
Rsd 0.2s 19ph/13stn Dmin 30km Az.gap 84°
Corr. 0.473 14M/9stn Msd 0.2 5↑ 1↓

01/9664
JUN 29 091701.0s 39.60S 174.38E 206km M=4.2
0.4 0.01 0.03 3
Rsd 0.3s 33ph/25stn Dmin 34km Az.gap 93°
Corr. 0.100 15M/10stn Msd 0.3 10↑ 5↓

01/9690
JUN 30 074851.7s 38.29S 176.79E 71km M=3.7
0.2 0.02 0.01 3
Rsd 0.2s 24ph/19stn Dmin 20km Az.gap 57°
Corr. -0.147 10M/8stn Msd 0.2 6↑ 1↓

01/9694
JUN 30 090114.2s 37.73S 176.41E 189km M=3.7
1.0 0.06 0.04 8
Rsd 0.4s 8ph/7stn Dmin 85km Az.gap 274°
Corr. -0.379 4M/4stn Msd 0.2 3↑ 1↓

01/9695
JUN 30 093226.8s 38.78S 175.74E 137km M=3.7
0.3 0.02 0.01 3
Rsd 0.3s 26ph/19stn Dmin 37km Az.gap 58°
Corr. -0.236 9M/7stn Msd 0.3 4↑ 1↓

01/9712
JUN 30 173133.4s 38.59S 176.00E 182km M=3.5
0.4 0.02 0.02 4
Rsd 0.2s 11ph/8stn Dmin 37km Az.gap 119°
Corr. -0.332 4M/4stn Msd 0.1 1↑ 4↓

01/9714
JUN 30 183257.0s 38.12S 176.53E 135km M=4.3
0.2 0.01 0.01 2
Rsd 0.2s 38ph/27stn Dmin 4km Az.gap 67°
Corr. 0.124 10M/5stn Msd 0.2 7↑ 2↓

01/9717
JUN 30 231530.2s 37.36S 176.71E 200km M=4.5
0.3 0.02 0.01 2
Rsd 0.1s 21ph/16stn Dmin 106km Az.gap 174°
Corr. 0.438 15M/9stn Msd 0.2 5↑ 1↓

01/9734
JUL 01 105347.5s 38.02S 176.20E 175km M=3.8
0.7 0.05 0.03 5
Rsd 0.2s 9ph/8stn Dmin 84km Az.gap 257°
Corr. -0.327 7M/6stn Msd 0.2 1↓

01/9737
JUL 01 135229.4s 40.60S 173.22E 151km M=3.6
0.3 0.01 0.01 3
Rsd 0.2s 31ph/23stn Dmin 63km Az.gap 135°
Corr. -0.055 6M/6stn Msd 0.3 2↑ 4↓

01/9745
JUL 01 180607.2s 44.22S 168.60E 5km M=3.6
0.2 0.02 0.01 R
Rsd 0.3s 13ph/11stn Dmin 74km Az.gap 177°
Corr. -0.541 17M/11stn Msd 0.2 2↑ 1↓
Felt Mt Aspiring Road (113).

01/9815
JUL 03 173026.4s 38.09S 176.26E 173km M=3.8
0.9 0.05 0.02 7
Rsd 0.3s 13ph/11stn Dmin 36km Az.gap 170°
Corr. -0.281 7M/7stn Msd 0.2 4↑ 1↓

01/9818
JUL 03 200028.2s 44.82S 167.36E 5km M=3.7
0.4 0.02 0.02 R
Rsd 0.2s 16ph/10stn Dmin 48km Az.gap 219°
Corr. -0.593 15M/10stn Msd 0.3 1↑ 2↓

01/9819
JUL 03 201555.6s 38.12S 176.16E 170km M=3.6
1.2 0.08 0.05 8
Rsd 0.5s 10ph/8stn Dmin 85km Az.gap 248°
Corr. -0.521 5M/5stn Msd 0.2 1↑

01/9823
JUL 03 223545.3s 38.15S 175.54E 299km M=3.5
0.4 0.03 0.07 5
Rsd 0.1s 9ph/8stn Dmin 123km Az.gap 338°
Corr. -0.597 4M/4stn Msd 0.2 1↓
Poor station coverage.

01/9830
JUL 04 014853.8s 40.04S 175.19E 15km M=4.1
0.1 0.01 0.01 2
Rsd 0.4s 52ph/39stn Dmin 17km Az.gap 78°
Corr. -0.214 15M/8stn Msd 0.3 5↑ 1↓
Felt Wanganui (57).

01/9838
JUL 04 060400.4s 37.31S 176.55E 210km M=3.9
0.5 0.04 0.05 5
Rsd 0.2s 8ph/5stn Dmin 116km Az.gap 305°
Corr. -0.282 6M/6stn Msd 0.2

01/9843
JUL 04 072003.9s 39.21S 176.01E 55km M=3.6
0.2 0.01 0.01 3
Rsd 0.2s 18ph/13stn Dmin 56km Az.gap 99°
Corr. -0.361 4M/4stn Msd 0.3 3↑ 3↓

01/9857
JUL 04 144840.6s 37.72S 176.70E 156km M=3.7
0.8 0.05 0.06 6
Rsd 0.4s 7ph/4stn Dmin 70km Az.gap 290°
Corr. -0.362 2M/2stn Msd 0.1 1↑

01/9864
JUL 04 194701.7s 37.22S 176.89E 220km M=3.7
0.5 0.05 0.03 4
Rsd 0.2s 11ph/9stn Dmin 117km Az.gap 282°
Corr. -0.464 3M/3stn Msd 0.3

01/9873
JUL 05 052602.2s 44.77S 167.38E 5km M=3.7
0.3 0.02 0.02 R
Rsd 0.3s 13ph/7stn Dmin 45km Az.gap 213°
Corr. -0.712 8M/5stn Msd 0.2 1↑

01/9883
JUL 06 025411.0s 38.87S 175.49E 115km M=3.7
0.1 0.01 0.00 1
Rsd 0.1s 15ph/11stn Dmin 22km Az.gap 67°
Corr. -0.090 5M/5stn Msd 0.4 3↑ 1↓

01/9890
JUL 06 105303.5s 44.59S 168.18E 82km M=3.6
0.3 0.02 0.02 4
Rsd 0.3s 18ph/10stn Dmin 22km Az.gap 157°
Corr. -0.348 10M/6stn Msd 0.2 2↑ 4↓

01/9901
JUL 06 224007.8s 39.96S 174.51E 27km M=3.7
0.2 0.01 0.01 2
Rsd 0.3s 26ph/20stn Dmin 40km Az.gap 85°
Corr. 0.191 20M/16stn Msd 0.3 2↑ 1↓

01/9913
JUL 07 083141.2s 39.88S 173.85E 133km M=3.6
0.5 0.02 0.02 6
Rsd 0.2s 19ph/15stn Dmin 93km Az.gap 219°
Corr. -0.181 4M/4stn Msd 0.2 1↑ 1↓

01/9915
JUL 07 094658.9s 37.44S 177.21E 134km M=3.5
0.5 0.04 0.03 4
Rsd 0.2s 6ph/4stn Dmin 92km Az.gap 273°
Corr. -0.716 3M/2stn Msd 0.3 1↑

01/9926
JUL 07 200359.1s 38.99S 177.28E 40km M=3.5
0.4 0.03 0.02 4
Rsd 0.1s 5ph/3stn Dmin 34km Az.gap 253°
Corr. 0.755 5M/2stn Msd 0.3 1↑

01/9928
JUL 08 004117.4s 37.81S 175.81E 206km M=3.8
0.8 0.03 0.08 7
Rsd 0.2s 11ph/10stn Dmin 29km Az.gap 256°
Corr. -0.423 3M/3stn Msd 0.1

01/9930
JUL 08 024634.5s 37.95S 178.98E 27km M=4.1
0.6 0.04 0.02 2
Rsd 0.2s 11ph/8stn Dmin 65km Az.gap 284°
Corr. 0.363 9M/7stn Msd 0.3 1↑ 1↓

01/9950
JUL 08 163304.0s 39.15S 175.15E 220km M=3.6
0.8 0.03 0.04 7
Rsd 0.3s 17ph/14stn Dmin 24km Az.gap 208°
Corr. -0.612 4M/4stn Msd 0.2 1↑

01/9952
JUL 08 172414.5s 44.18S 167.74E 5km M=3.8
0.5 0.03 0.03 R
Rsd 0.4s 13ph/8stn Dmin 57km Az.gap 210°
Corr. -0.627 14M/9stn Msd 0.3 1↑

01/9958
JUL 08 220910.6s 37.02S 176.70E 283km M=4.4
0.7 0.07 0.05 6
Rsd 0.3s 10ph/7stn Dmin 143km Az.gap 272°
Corr. -0.353 6M/6stn Msd 0.1 1↑

01/9959
JUL 08 222754.9s 36.31S 177.64E 239km M=4.4
0.8 0.07 0.08 7
Rsd 0.2s 11ph/7stn Dmin 204km Az.gap 312°
Corr. -0.558 6M/5stn Msd 0.3

01/9972
JUL 09 090734.1s 39.25S 173.78E 12km M=2.4
0.3 0.01 0.02 1
Rsd 0.1s 11ph/8stn Dmin 8km Az.gap 305°
Corr. 0.091 6M/6stn Msd 0.2 3↑ 1↓
Felt Okato (46).

01/9982
JUL 09 141404.3s 38.54S 176.09E 183km M=3.5
0.2 0.02 0.01 2
Rsd 0.1s 15ph/13stn Dmin 83km Az.gap 204°
Corr. -0.704 4M/4stn Msd 0.3 1↓

01/9989
JUL 09 200717.0s 41.68S 174.27E 7km M=3.4
0.2 0.01 0.01 2
Rsd 0.3s 19ph/13stn Dmin 9km Az.gap 138°
Corr. -0.604 12M/8stn Msd 0.2 3↑ 2↓
Felt Lake Grassmere (84).

01/9993
JUL 09 225441.5s 45.00S 167.51E 114km M=3.7
0.4 0.02 0.02 3
Rsd 0.2s 14ph/8stn Dmin 49km Az.gap 194°
Corr. -0.165 11M/8stn Msd 0.3 2↑ 2↓

01/9996
JUL 10 033139.5s 36.39S 178.40E 12km M=3.9
0.7 0.05 0.05 R
Rsd 0.3s 6ph/4stn Dmin 187km Az.gap 336°
Corr. -0.226 4M/2stn Msd 0.2

01/10011
JUL 10 180501.0s 37.66S 179.99W 12km M=4.0
0.8 0.06 0.05 R
Rsd 0.3s 7ph/4stn Dmin 160km Az.gap 338°
Corr. -0.141 9M/7stn Msd 0.2

01/10012
JUL 10 191733.6s 39.18S 174.90E 204km M=3.9
0.5 0.02 0.02 4
Rsd 0.2s 23ph/18stn Dmin 45km Az.gap 163°
Corr. 0.382 7M/5stn Msd 0.2 1↑

01/10016
JUL 11 020400.0s 36.35S 179.86W 12km M=3.9
0.5 0.02 0.04 R
Rsd 0.2s 8ph/6stn Dmin 254km Az.gap 318°
Corr. 0.003 3M/3stn Msd 0.2

01/10025
JUL 11 185715.3s 36.42S 178.04E 240km M=3.9
0.3 0.04 0.03 3
Rsd 0.1s 11ph/8stn Dmin 185km Az.gap 326°
Corr. -0.283 4M/4stn Msd 0.1

01/10026
JUL 11 195352.4s 38.98S 177.41E 48km M=3.5
0.2 0.01 0.02 3
Rsd 0.2s 19ph/15stn Dmin 23km Az.gap 102°
Corr. -0.126 11M/8stn Msd 0.3 1↑

01/10028
JUL 11 204934.5s 40.49S 174.29E 97km M=4.0
0.3 0.01 0.01 4
Rsd 0.2s 30ph/26stn Dmin 47km Az.gap 90°
Corr. 0.235 6M/3stn Msd 0.3 11↑ 1↓

01/10035
JUL 12 044804.8s 40.08S 174.95E 26km M=3.6
0.1 0.01 0.01 1
Rsd 0.3s 37ph/28stn Dmin 19km Az.gap 78°
Corr. 0.222 10M/5stn Msd 0.2 2↑ 7↓
Felt Wanganui (57).

01/10039
JUL 12 072055.5s 43.04S 172.44E 12km M=3.8
0.2 0.01 0.02 R
Rsd 0.2s 14ph/10stn Dmin 139km Az.gap 166°
Corr. -0.666 18M/12stn Msd 0.2

01/10043
JUL 12 090232.9s 47.40S 165.59E 33km M=3.6
0.6 0.04 0.03 R
Rsd 0.3s 10ph/5stn Dmin 201km Az.gap 318°
Corr. 0.075 3M/3stn Msd 0.1

01/10050
JUL 12 170634.1s 38.79S 175.25E 215km M=4.0
0.9 0.04 0.03 7
Rsd 0.3s 19ph/15stn Dmin 31km Az.gap 121°
Corr. 0.014 9M/7stn Msd 0.2 5↑ 6↓

01/10052
JUL 12 190358.2s 47.53S 165.44E 33km M=4.5
0.3 0.02 0.02 R
Rsd 0.1s 12ph/7stn Dmin 216km Az.gap 321°
Corr. 0.173 12M/7stn Msd 0.2

01/10055
JUL 12 214528.3s 40.38S 173.85E 121km M=3.8
0.3 0.01 0.01 3
Rsd 0.3s 28ph/21stn Dmin 47km Az.gap 117°
Corr. 0.072 8M/6stn Msd 0.2 3↑ 1↓

01/10064
JUL 13 052448.5s 37.43S 177.82E 92km M=4.2
0.5 0.02 0.02 4
Rsd 0.2s 18ph/15stn Dmin 57km Az.gap 221°
Corr. 0.550 11M/7stn Msd 0.1 3↑ 3↓

01/10109
JUL 14 045759.8s 38.02S 176.41E 150km M=3.7
0.2 0.01 0.01 2
Rsd 0.1s 14ph/10stn Dmin 67km Az.gap 121°
Corr. -0.125 7M/7stn Msd 0.1 1↑

01/10148
JUL 15 032802.2s 39.61S 174.12E 184km M=3.8
0.4 0.02 0.02 4
Rsd 0.2s 31ph/24stn Dmin 72km Az.gap 196°
Corr. -0.594 9M/8stn Msd 0.2

01/10151
JUL 15 045122.9s 47.53S 164.79E 33km M=3.5
0.4 0.03 0.03 R
Rsd 0.2s 11ph/6stn Dmin 264km Az.gap 324°
Corr. -0.130 4M/4stn Msd 0.3

01/10152
JUL 15 054038.7s 38.76S 177.42E 47km M=3.7
0.2 0.01 0.01 4
Rsd 0.3s 24ph/19stn Dmin 36km Az.gap 68°
Corr. -0.103 11M/8stn Msd 0.3 1↑

01/10165
JUL 15 141809.4s 38.84S 174.91E 193km M=3.5
0.8 0.04 0.05 12
Rsd 0.4s 15ph/12stn Dmin 202km Az.gap 210°
Corr. -0.678 6M/6stn Msd 0.1

01/10169
JUL 15 182752.6s 39.70S 174.48E 121km M=3.7
0.4 0.01 0.01 4
Rsd 0.3s 40ph/31stn Dmin 40km Az.gap 89°
Corr. -0.291 12M/9stn Msd 0.3 10↑ 1↓

01/10200
JUL 16 233026.9s 37.74S 176.42E 275km M=4.7
0.6 0.04 0.04 5
Rsd 0.2s 28ph/22stn Dmin 30km Az.gap 155°
Corr. -0.299 12M/8stn Msd 0.3 4↑ 2↓

01/10208
JUL 17 045756.9s 44.63S 168.24E 72km M=3.8
0.5 0.03 0.02 4
Rsd 0.2s 10ph/6stn Dmin 25km Az.gap 144°
Corr. -0.004 7M/4stn Msd 0.2 2↑ 1↓

01/10210
JUL 17 061652.1s 40.48S 176.64E 39km M=3.6
0.1 0.01 0.01 2
Rsd 0.1s 26ph/21stn Dmin 40km Az.gap 200°
Corr. -0.522 11M/7stn Msd 0.1 3↑ 1↓

01/10218
JUL 17 114020.9s 43.39S 171.04E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.1s 11ph/7stn Dmin 36km Az.gap 86°
Corr. 0.407 13M/9stn Msd 0.2 2↑ 2↓

01/10219
JUL 17 130103.2s 38.53S 175.76E 150km M=3.8
0.6 0.04 0.03 4
Rsd 0.2s 14ph/11stn Dmin 56km Az.gap 214°
Corr. -0.612 7M/7stn Msd 0.4 1↑

01/10260
JUL 18 115735.8s 41.28S 172.97E 115km M=3.9
0.4 0.02 0.01 4
Rsd 0.3s 31ph/25stn Dmin 54km Az.gap 82°
Corr. -0.261 13M/9stn Msd 0.3 3↑ 3↓

01/10263
JUL 18 125302.6s 38.35S 176.02E 152km M=3.7
0.4 0.03 0.01 3
Rsd 0.1s 11ph/10stn Dmin 83km Az.gap 234°
Corr. -0.676 9M/7stn Msd 0.2 1↑

01/10267
JUL 18 203504.7s 38.16S 176.15E 246km M=3.6
2.9 0.23 0.08 16
Rsd 0.1s 10ph/10stn Dmin 319km Az.gap 337°
Corr. 0.921 4M/4stn Msd 0.1

01/10268
JUL 18 203739.6s 37.57S 177.17E 143km M=3.8
0.5 0.04 0.02 3
Rsd 0.1s 12ph/11stn Dmin 77km Az.gap 300°
Corr. -0.154 6M/4stn Msd 0.1 1↑

01/10277
JUL 19 033921.9s 37.11S 177.35E 195km M=3.6
0.5 0.05 0.04 3
Rsd 0.1s 10ph/9stn Dmin 129km Az.gap 309°
Corr. -0.428 2M/2stn Msd 0.1 1↑

01/10300
JUL 20 093946.0s 39.89S 174.42E 101km M=4.6
0.3 0.01 0.01 3
Rsd 0.2s 42ph/36stn Dmin 45km Az.gap 89°
Corr. -0.126 9M/5stn Msd 0.2 12↑ 8↓
Felt Wanganui (57) and Raumati (65).

01/10304
JUL 20 133711.1s 38.53S 176.40E 179km M=3.7
0.7 0.11 0.22 7
Rsd 0.3s 9ph/7stn Dmin 69km Az.gap 219°
Corr. -0.960 5M/4stn Msd 0.2 1↓
Poor station coverage.

01/10311
JUL 21 044320.5s 38.41S 175.73E 133km M=3.7
0.4 0.02 0.03 5
Rsd 0.2s 16ph/11stn Dmin 122km Az.gap 233°
Corr. -0.717 6M/5stn Msd 0.1

01/10314
JUL 21 122623.7s 40.53S 173.61E 121km M=3.9
0.3 0.01 0.01 3
Rsd 0.2s 33ph/25stn Dmin 40km Az.gap 122°
Corr. 0.082 12M/7stn Msd 0.3 7↑ 1↓

01/10315
JUL 21 132956.4s 41.96S 172.76E 87km M=3.8
0.3 0.02 0.01 3
Rsd 0.3s 29ph/20stn Dmin 25km Az.gap 108°
Corr. -0.242 8M/5stn Msd 0.3 3↑ 2↓

01/10318
JUL 21 180300.5s 38.77S 175.68E 166km M=3.9
0.4 0.03 0.03 3
Rsd 0.2s 12ph/7stn Dmin 39km Az.gap 135°
Corr. -0.674 5M/5stn Msd 0.3 1↑

01/10328
JUL 22 072100.0s 40.97S 174.45E 60km M=4.5
0.1 0.01 0.01 2
Rsd 0.2s 50ph/37stn Dmin 31km Az.gap 54°
Corr. -0.047 8M/4stn Msd 0.1 8↑ 4↓
Felt from Kapiti Coast (65) to Blenheim (77).

01/10331
JUL 22 080528.5s 38.55S 175.62E 175km M=4.0
0.3 0.03 0.02 3
Rsd 0.1s 9ph/6stn Dmin 51km Az.gap 164°
Corr. -0.302 5M/5stn Msd 0.2 1↑ 5↓

01/10335
JUL 22 131933.9s 44.59S 167.66E 9km M=3.6
0.3 0.01 0.02 1
Rsd 0.1s 13ph/7stn Dmin 23km Az.gap 236°
Corr. -0.131 9M/5stn Msd 0.3 1↑ 1↓

01/10347
JUL 23 001920.0s 39.24S 175.04E 140km M=4.2
0.3 0.01 0.01 3
Rsd 0.3s 45ph/35stn Dmin 37km Az.gap 73°
Corr. 0.014 8M/4stn Msd 0.1 12↑ 8↓

01/10350
JUL 23 052905.6s 45.34S 166.88E 12km M=4.0
0.6 0.02 0.04 R
Rsd 0.3s 10ph/7stn Dmin 101km Az.gap 253°
Corr. 0.086 7M/4stn Msd 0.3 1↓

01/10362
JUL 23 155005.2s 41.30S 172.78E 138km M=3.9
0.4 0.02 0.02 3
Rsd 0.2s 35ph/27stn Dmin 52km Az.gap 99°
Corr. -0.144 12M/8stn Msd 0.3 7↑ 4↓

01/10367
JUL 23 201512.3s 39.71S 174.25E 214km M=4.5
0.4 0.01 0.02 3
Rsd 0.3s 42ph/32stn Dmin 44km Az.gap 109°
Corr. -0.184 8M/4stn Msd 0.1 12↑ 5↓

01/10372
JUL 23 230840.5s 37.27S 176.85E 210km M=3.6
1.4 0.11 0.06 8
Rsd 0.4s 7ph/6stn Dmin 113km Az.gap 312°
Corr. -0.115 3M/3stn Msd 0.1 1↑ 1↓

01/10378
JUL 24 033043.6s 38.40S 177.15E 57km M=3.5
0.7 0.04 0.02 6
Rsd 0.3s 9ph/6stn Dmin 16km Az.gap 158°
Corr. 0.518 3M/1stn Msd 0.1 1↓

01/10390
JUL 24 115113.2s 39.19S 174.86E 205km M=3.8
0.2 0.01 0.01 2
Rsd 0.0s 22ph/18stn Dmin 59km Az.gap 196°
Corr. -0.036 5M/5stn Msd 0.1 1↑

01/10393
JUL 24 142703.4s 45.95S 166.90E 98km M=3.8
0.2 0.01 0.02 2
Rsd 0.1s 10ph/6stn Dmin 81km Az.gap 252°
Corr. -0.059 9M/7stn Msd 0.3 1↑

01/10398
JUL 24 162247.3s 41.23S 172.66E 209km M=3.9
0.4 0.03 0.02 3
Rsd 0.2s 21ph/15stn Dmin 46km Az.gap 115°
Corr. -0.261 4M/4stn Msd 0.2 10↑ 1↓

01/10439
JUL 25 125617.0s 41.54S 173.30E 77km M=3.7
0.3 0.02 0.01 4
Rsd 0.3s 27ph/20stn Dmin 42km Az.gap 84°
Corr. -0.288 10M/7stn Msd 0.3 3↑ 2↓

01/10449
JUL 25 204530.2s 43.15S 171.38E 5km M=3.5
0.1 0.01 0.01 R
Rsd 0.2s 12ph/7stn Dmin 53km Az.gap 94°
Corr. 0.178 10M/7stn Msd 0.2 2↑ 1↓

01/10452
JUL 25 230403.8s 37.38S 176.83E 244km M=4.0
0.9 0.07 0.04 5
Rsd 0.2s 10ph/9stn Dmin 101km Az.gap 305°
Corr. -0.128 4M/4stn Msd 0.3 1↑

01/10456
JUL 26 012256.6s 37.71S 176.49E 188km M=3.7
1.2 0.08 0.05 8
Rsd 0.3s 8ph/7stn Dmin 81km Az.gap 288°
Corr. -0.141 4M/4stn Msd 0.1

01/10466
JUL 26 124616.6s 40.41S 177.26E 33km M=3.6
0.2 0.01 0.01 R
Rsd 0.2s 31ph/20stn Dmin 54km Az.gap 206°
Corr. -0.522 13M/9stn Msd 0.1 1↓

01/10502
JUL 27 184445.3s 38.61S 176.13E 101km M=4.2
0.2 0.01 0.01 2
Rsd 0.2s 40ph/32stn Dmin 4km Az.gap 55°
Corr. -0.243 10M/5stn Msd 0.2 8↑ 7↓

01/10503
JUL 27 185844.4s 37.13S 177.00E 5km M=3.7
0.6 0.04 0.03 R
Rsd 0.3s 10ph/6stn Dmin 47km Az.gap 229°
Corr. 0.819 8M/3stn Msd 0.1

01/10506
JUL 27 224755.1s 39.18S 176.26E 61km M=3.5
0.2 0.01 0.01 3
Rsd 0.2s 27ph/17stn Dmin 53km Az.gap 96°
Corr. -0.179 8M/5stn Msd 0.1 2↑ 2↓

01/10518
JUL 28 084612.2s 38.19S 176.23E 169km M=4.1
0.5 0.02 0.02 4
Rsd 0.3s 15ph/11stn Dmin 78km Az.gap 112°
Corr. -0.054 4M/4stn Msd 0.2 3↑ 1↓

01/10534
JUL 29 015342.7s 39.26S 176.32E 59km M=4.2
0.2 0.01 0.01 3
Rsd 0.2s 33ph/26stn Dmin 46km Az.gap 74°
Corr. -0.059 12M/8stn Msd 0.3 1↑ 2↓

01/10537
JUL 29 070653.6s 37.74S 177.52E 45km M=4.0
0.2 0.01 0.01 2
Rsd 0.2s 22ph/16stn Dmin 37km Az.gap 207°
Corr. 0.257 8M/6stn Msd 0.2 1↓

01/10546
JUL 29 150028.9s 36.68S 177.08E 12km M=4.0
0.3 0.02 0.02 R
Rsd 0.1s 6ph/3stn Dmin 122km Az.gap 273°
Corr. 0.781 4M/2stn Msd 0.4 1↑

01/10563
JUL 30 100244.1s 41.54S 173.67E 60km M=3.9
0.1 0.01 0.01 2
Rsd 0.2s 28ph/20stn Dmin 17km Az.gap 72°
Corr. -0.145 5M/4stn Msd 0.3 5↑ 3↓
Felt Blenheim (77).

01/10564
JUL 30 105145.2s 37.84S 176.20E 185km M=4.1
0.3 0.02 0.01 2
Rsd 0.1s 13ph/11stn Dmin 92km Az.gap 256°
Corr. -0.257 4M/4stn Msd 0.1 4↑ 1↓

01/10578
JUL 30 190938.8s 35.69S 178.69E 253km M=4.3
1.2 0.14 0.17 16
Rsd 0.4s 9ph/7stn Dmin 318km Az.gap 339°
Corr. 0.030 2M/2stn Msd 0.0

01/10586
JUL 31 035743.9s 38.27S 175.86E 209km M=4.4
0.3 0.01 0.02 3
Rsd 0.3s 28ph/21stn Dmin 67km Az.gap 94°
Corr. 0.057 14M/8stn Msd 0.2 4↑ 3↓

01/10587
JUL 31 041907.2s 37.22S 177.27E 157km M=4.1
0.7 0.03 0.03 7
Rsd 0.2s 13ph/10stn Dmin 116km Az.gap 226°
Corr. 0.615 9M/7stn Msd 0.2 1↑ 2↓

01/10592
JUL 31 082157.0s 46.08S 167.18E 5km M=3.5
0.2 0.01 0.01 R
Rsd 0.2s 13ph/7stn Dmin 63km Az.gap 217°
Corr. 0.455 14M/8stn Msd 0.4 3↑ 1↓

01/10602
JUL 31 111838.5s 38.67S 175.68E 176km M=3.8
0.2 0.02 0.02 2
Rsd 0.1s 16ph/12stn Dmin 39km Az.gap 236°
Corr. 0.154 6M/6stn Msd 0.3 2↑ 4↓

01/10603
JUL 31 112909.4s 37.53S 178.68E 33km M=3.5
0.7 0.03 0.05 R
Rsd 0.3s 8ph/5stn Dmin 160km Az.gap 281°
Corr. 0.491 4M/2stn Msd 0.2 1↑

01/10650
AUG 01 081802.4s 38.81S 175.46E 203km M=3.8
1.2 0.06 0.06 9
Rsd 0.4s 12ph/9stn Dmin 23km Az.gap 201°
Corr. -0.531 7M/6stn Msd 0.2 3↑ 1↓

01/10661
AUG 01 205756.8s 45.13S 167.33E 116km M=3.8
0.4 0.02 0.03 3
Rsd 0.2s 11ph/7stn Dmin 40km Az.gap 203°
Corr. -0.278 9M/7stn Msd 0.4 3↑ 2↓

01/10677
AUG 02 080825.3s 37.82S 177.69E 97km M=3.6
0.1 0.01 0.01 1
Rsd 0.0s 6ph/4stn Dmin 71km Az.gap 282°
Corr. 0.196 2M/1stn Msd 0.1 1↓

01/10679
AUG 02 095812.4s 37.13S 176.51E 207km M=3.5
1.0 0.08 0.09 7
Rsd 0.3s 7ph/6stn Dmin 136km Az.gap 319°
Corr. -0.545 4M/4stn Msd 0.2

01/10687
AUG 02 151738.1s 38.99S 177.91E 27km M=3.7
0.2 0.01 0.02 1
Rsd 0.2s 11ph/8stn Dmin 21km Az.gap 203°
Corr. -0.490 5M/2stn Msd 0.1 1↑ 2↓

01/10726
AUG 03 232144.8s 38.58S 176.16E 99km M=3.7
0.5 0.02 0.02 5
Rsd 0.2s 13ph/10stn Dmin 72km Az.gap 195°
Corr. -0.698 5M/5stn Msd 0.3 1↑

01/10728
AUG 04 000135.7s 38.20S 176.17E 166km M=3.6
0.3 0.01 0.01 3
Rsd 0.1s 9ph/7stn Dmin 78km Az.gap 143°
Corr. 0.234 3M/3stn Msd 0.2 1↑

01/10733
AUG 04 013345.0s 44.20S 168.44E 5km M=3.7
0.4 0.03 0.02 R
Rsd 0.2s 13ph/9stn Dmin 67km Az.gap 185°
Corr. -0.839 16M/10stn Msd 0.2 1↑

01/10735
AUG 04 024410.5s 40.26S 173.59E 168km M=4.7
0.3 0.01 0.01 3
Rsd 0.2s 47ph/38stn Dmin 66km Az.gap 137°
Corr. 0.013 8M/4stn Msd 0.4 14↑ 4↓

01/10748
AUG 04 124707.9s 45.25S 166.90E 47km M=3.8
0.2 0.01 0.01 1
Rsd 0.1s 15ph/8stn Dmin 32km Az.gap 252°
Corr. -0.062 9M/5stn Msd 0.3 3↑ 1↓

01/10749
AUG 04 125116.6s 41.01S 175.63E 26km M=3.7
0.1 0.01 0.01 1
Rsd 0.2s 37ph/26stn Dmin 20km Az.gap 142°
Corr. -0.683 11M/6stn Msd 0.2 5↑ 6↓

01/10750
AUG 04 144704.9s 43.19S 171.06E 5km M=4.1
0.1 0.01 0.01 R
Rsd 0.2s 22ph/12stn Dmin 29km Az.gap 74°
Corr. 0.163 20M/11stn Msd 0.3 4↑ 5↓

01/10761
AUG 04 204816.7s 42.02S 177.52E 33km M=4.0
0.4 0.02 0.02 R
Rsd 0.2s 40ph/28stn Dmin 183km Az.gap 229°
Corr. -0.424 19M/10stn Msd 0.2

01/10799
AUG 05 231809.4s 37.40S 176.54E 224km M=3.7
1.1 0.09 0.06 7
Rsd 0.3s 11ph/10stn Dmin 108km Az.gap 277°
Corr. -0.404 4M/4stn Msd 0.3

01/10835
AUG 06 180556.9s 42.05S 173.89E 8km M=3.8
0.4 0.02 0.01 3
Rsd 0.4s 30ph/20stn Dmin 29km Az.gap 147°
Corr. -0.559 19M/10stn Msd 0.2 4↑ 6↓

01/10841
AUG 07 000721.2s 38.03S 176.07E 184km M=4.0
0.3 0.01 0.02 3
Rsd 0.2s 15ph/11stn Dmin 60km Az.gap 118°
Corr. 0.135 8M/6stn Msd 0.1 1↑ 1↓

01/10865
AUG 07 215007.8s 37.67S 176.50E 185km M=4.3
0.4 0.02 0.02 3
Rsd 0.2s 17ph/13stn Dmin 85km Az.gap 163°
Corr. 0.401 9M/6stn Msd 0.1 1↓

01/10866
AUG 07 215505.2s 38.60S 176.04E 5km M=2.8
0.1 0.01 0.01 R
Rsd 0.3s 17ph/12stn Dmin 7km Az.gap 101°
Corr. -0.514 5M/5stn Msd 0.3 1↑ 1↓
Felt Wairakei (41).

01/10885
AUG 08 133723.8s 41.16S 174.47E 34km M=4.3
0.1 0.01 0.01 1
Rsd 0.2s 41ph/31stn Dmin 18km Az.gap 67°
Corr. 0.039 9M/4stn Msd 0.2 10↑ 9↓
Felt Wellington (68) and Marlborough Sounds (78).

01/10890
AUG 08 143728.5s 41.42S 173.63E 74km M=4.1
0.2 0.01 0.01 3
Rsd 0.2s 36ph/24stn Dmin 38km Az.gap 61°
Corr. -0.283 8M/4stn Msd 0.2 8↑ 8↓
Felt Moetapu Bay (78).

01/10911
AUG 10 020647.6s 39.05S 175.11E 236km M=3.6
0.8 0.04 0.13 6
Rsd 0.2s 12ph/10stn Dmin 25km Az.gap 236°
Corr. 0.015 3M/3stn Msd 0.1 1↑ 2↓

01/10936
AUG 11 013820.4s 36.94S 178.27E 79km M=4.4
0.3 0.02 0.02 3
Rsd 0.2s 26ph/22stn Dmin 116km Az.gap 271°
Corr. 0.603 5M/3stn Msd 0.2 2↑ 1↓

01/10939
AUG 11 043500.0s 38.23S 178.21E 13km M=4.0
0.4 0.01 0.02 4
Rsd 0.2s 18ph/16stn Dmin 45km Az.gap 249°
Corr. 0.397 16M/13stn Msd 0.3 1↓

01/10945
AUG 11 095254.1s 37.65S 177.74E 83km M=4.3
0.5 0.02 0.02 4
Rsd 0.2s 19ph/15stn Dmin 50km Az.gap 227°
Corr. 0.582 10M/5stn Msd 0.1 1↑ 2↓

01/10951
AUG 11 121942.9s 38.15S 176.37E 159km M=3.8
0.4 0.02 0.01 3
Rsd 0.1s 10ph/9stn Dmin 66km Az.gap 241°
Corr. -0.277 5M/5stn Msd 0.2 1↑

01/10954
AUG 11 150250.8s 37.98S 175.91E 266km M=4.6
0.7 0.04 0.03 5
Rsd 0.2s 18ph/14stn Dmin 110km Az.gap 141°
Corr. 0.555 10M/5stn Msd 0.3 1↑ 2↓

01/10955
AUG 11 154323.7s 37.62S 179.80E 33km M=3.6
2.1 0.19 0.10 R
Rsd 0.6s 5ph/3stn Dmin 242km Az.gap 334°
Corr. 0.227 3M/2stn Msd 0.2

01/10958
AUG 11 161130.9s 38.30S 176.18E 160km M=3.9
0.9 0.04 0.03 7
Rsd 0.3s 13ph/10stn Dmin 82km Az.gap 228°
Corr. -0.244 4M/3stn Msd 0.3 1↑

01/10968
AUG 12 021111.2s 40.90S 172.25E 5km M=3.0
0.4 0.02 0.02 R
Rsd 0.3s 16ph/10stn Dmin 25km Az.gap 229°
Corr. -0.737 11M/7stn Msd 0.2 1↓
Felt Bainham (72).

01/10973
AUG 12 043707.7s 36.45S 179.17E 12km M=3.8
0.1 0.00 0.01 R
Rsd 0.0s 5ph/4stn Dmin 271km Az.gap 319°
Corr. 0.195 2M/2stn Msd 0.2

01/10984
AUG 12 074243.5s 38.00S 175.95E 270km M=5.1
0.4 0.02 0.03 3
Rsd 0.2s 35ph/30stn Dmin 29km Az.gap 99°
Corr. 0.007 12M/6stn Msd 0.3 14↑ 3↓

01/11003
AUG 12 223759.7s 38.18S 176.16E 151km M=4.0
0.4 0.01 0.01 4
Rsd 0.2s 14ph/12stn Dmin 76km Az.gap 111°
Corr. -0.021 10M/7stn Msd 0.2 1↑

01/11004
AUG 12 232510.8s 39.93S 176.08E 71km M=4.0
0.2 0.01 0.01 3
Rsd 0.2s 40ph/31stn Dmin 68km Az.gap 71°
Corr. -0.222 12M/7stn Msd 0.3 8↑ 3↓

01/11005
AUG 13 051006.7s 37.40S 176.83E 189km M=4.2
0.8 0.06 0.05 6
Rsd 0.3s 12ph/9stn Dmin 98km Az.gap 288°
Corr. 0.069 9M/7stn Msd 0.2 1↓

01/11015
AUG 13 161348.8s 37.80S 175.69E 128km M=3.6
0.4 0.02 0.02 4
Rsd 0.1s 11ph/9stn Dmin 19km Az.gap 178°
Corr. -0.035 3M/3stn Msd 0.2 1↑

01/11018
AUG 13 191010.5s 37.27S 179.33W 12km M=4.1
0.8 0.06 0.06 R
Rsd 0.3s 9ph/6stn Dmin 327km Az.gap 334°
Corr. -0.345 2M/2stn Msd 0.1

01/11022
AUG 14 024320.3s 38.23S 176.11E 178km M=4.5
0.5 0.02 0.02 4
Rsd 0.3s 28ph/21stn Dmin 10km Az.gap 61°
Corr. -0.125 11M/6stn Msd 0.3 12↑ 4↓

01/11031
AUG 14 180236.9s 37.59S 176.54E 180km M=4.5
0.5 0.04 0.03 4
Rsd 0.3s 16ph/12stn Dmin 90km Az.gap 170°
Corr. 0.808 9M/6stn Msd 0.2 1↑

01/11057
AUG 16 091959.5s 38.87S 174.95E 219km M=4.4
0.3 0.05 0.02 3
Rsd 0.1s 16ph/13stn Dmin 43km Az.gap 185°
Corr. -0.325 7M/6stn Msd 0.4 7↑ 5↓

01/11099
AUG 18 005247.2s 39.16S 176.26E 60km M=3.7
0.3 0.02 0.01 4
Rsd 0.2s 23ph/19stn Dmin 33km Az.gap 113°
Corr. -0.452 7M/5stn Msd 0.1 1↑ 3↓

01/11121
AUG 18 225719.1s 45.11S 167.43E 91km M=3.5
0.3 0.01 0.01 2
Rsd 0.2s 16ph/9stn Dmin 46km Az.gap 191°
Corr. -0.263 10M/8stn Msd 0.3 3↑ 5↓

01/11133
AUG 19 052025.4s 37.05S 179.31E 33km M=3.5
1.6 0.09 0.09 R
Rsd 0.5s 5ph/3stn Dmin 236km Az.gap 298°
Corr. 0.552 2M/2stn Msd 0.3 1↑

01/11163
AUG 20 195254.8s 36.76S 177.50E 195km M=4.1
1.2 0.14 0.07 9
Rsd 0.4s 10ph/9stn Dmin 170km Az.gap 313°
Corr. 0.053 5M/5stn Msd 0.2

01/11167
AUG 21 022607.1s 38.70S 175.63E 173km M=3.9
0.3 0.04 0.04 2
Rsd 0.1s 12ph/9stn Dmin 34km Az.gap 292°
Corr. 0.715 4M/4stn Msd 0.3 3↑ 5↓

01/11170
AUG 21 045517.8s 36.89S 177.63E 134km M=4.5
0.5 0.03 0.04 5
Rsd 0.1s 16ph/14stn Dmin 80km Az.gap 254°
Corr. 0.573 10M/5stn Msd 0.2 3↑ 1↓

01/11173
AUG 21 065157.7s 36.49S 178.48W 33km M=7.1
0.7 0.04 0.05 R
Rsd 0.2s 32ph/30stn Dmin 389km Az.gap 315°
Corr. 0.146 35M/19stn Msd 0.4 3↑ 1↓
Felt throughout most of New Zealand and the Chatham Islands, some minor

01/11174
AUG 21 070157.9s 37.49S 179.30W 33km M=4.8
0.8 0.06 0.05 R
Rsd 0.3s 8ph/6stn Dmin 265km Az.gap 335°
Corr. -0.265 8M/5stn Msd 0.9

01/11175
AUG 21 071211.6s 37.52S 179.92W 33km M=4.3
1.6 0.10 0.13 R
Rsd 0.4s 5ph/4stn Dmin 274km Az.gap 309°
Corr. -0.545 4M/2stn Msd 0.1

01/11177
AUG 21 075753.7s 36.86S 179.44W 33km M=4.7
0.9 0.05 0.06 R
Rsd 0.4s 10ph/7stn Dmin 296km Az.gap 309°
Corr. 0.193 8M/5stn Msd 0.2

01/11178
AUG 21 080126.8s 37.22S 179.08W 33km M=4.4
0.9 0.07 0.07 R
Rsd 0.2s 4ph/4stn Dmin 297km Az.gap 344°
Corr. -0.214 2M/2stn Msd 0.9

01/11179
AUG 21 081956.7s 37.23S 179.03W 33km M=4.3
0.7 0.06 0.04 R
Rsd 0.2s 11ph/7stn Dmin 300km Az.gap 332°
Corr. -0.071 8M/4stn Msd 0.2

01/11180
AUG 21 082103.1s 37.21S 179.07W 33km M=3.7
0.5 0.04 0.03 R
Rsd 0.1s 5ph/3stn Dmin 298km Az.gap 339°
Corr. -0.412 2M/2stn Msd 0.2

01/11181
AUG 21 082845.1s 37.07S 178.95W 33km M=4.2
0.7 0.05 0.05 R
Rsd 0.3s 7ph/5stn Dmin 368km Az.gap 333°
Corr. -0.452 4M/2stn Msd 0.1

01/11182
AUG 21 083238.4s 37.43S 179.13W 33km M=4.4
1.2 0.17 0.21 R
Rsd 0.2s 4ph/4stn Dmin 331km Az.gap 350°
Corr. -0.968 4M/3stn Msd 0.4

01/11183
AUG 21 084315.4s 37.00S 178.92W 33km M=3.9
1.6 0.18 0.08 R
Rsd 0.4s 5ph/4stn Dmin 374km Az.gap 339°
Corr. -0.190 2M/2stn Msd 0.1

01/11184
AUG 21 084541.1s 37.07S 178.75W 33km M=4.2
0.9 0.08 0.07 R
Rsd 0.3s 9ph/7stn Dmin 382km Az.gap 337°
Corr. -0.441 5M/3stn Msd 0.2

01/11185
AUG 21 085547.0s 36.46S 179.19W 33km M=4.3
0.7 0.08 0.08 R
Rsd 0.3s 9ph/7stn Dmin 343km Az.gap 341°
Corr. -0.649 9M/7stn Msd 0.3

01/11186
AUG 21 091542.4s 35.99S 178.51E 33km M=4.6
1.3 0.10 0.19 R
Rsd 0.4s 10ph/7stn Dmin 281km Az.gap 336°
Corr. -0.528 11M/7stn Msd 0.2

01/11187
AUG 21 091652.5s 36.88S 179.18W 33km M=4.8
0.6 0.03 0.04 R
Rsd 0.1s 11ph/10stn Dmin 312km Az.gap 317°
Corr. -0.289 10M/5stn Msd 0.1

01/11188
AUG 21 092020.6s 34.85S 178.72W 33km M=5.0
0.4 0.02 0.03 R
Rsd 0.1s 17ph/14stn Dmin 473km Az.gap 327°
Corr. 0.283 8M/5stn Msd 0.2

01/11189
AUG 21 092358.2s 37.38S 179.13W 33km M=4.1
1.4 0.11 0.10 R
Rsd 0.5s 8ph/5stn Dmin 284km Az.gap 334°
Corr. -0.330 3M/2stn Msd 0.2

01/11191
AUG 21 093749.5s 36.80S 179.35W 33km M=4.3
0.5 0.03 0.03 R
Rsd 0.2s 13ph/9stn Dmin 306km Az.gap 310°
Corr. 0.268 12M/9stn Msd 0.2

01/11192
AUG 21 093801.3s 36.66S 178.47W 33km M=4.2
0.7 0.08 0.05 R
Rsd 0.2s 12ph/11stn Dmin 377km Az.gap 339°
Corr. -0.524 5M/5stn Msd 0.2

01/11193
AUG 21 094315.1s 37.17S 179.11W 33km M=4.2
0.5 0.06 0.04 R
Rsd 0.2s 8ph/7stn Dmin 349km Az.gap 332°
Corr. -0.382 8M/6stn Msd 0.1

01/11195
AUG 21 095816.4s 37.27S 178.69W 33km M=4.4
0.8 0.07 0.06 R
Rsd 0.3s 8ph/5stn Dmin 325km Az.gap 339°
Corr. -0.372 5M/2stn Msd 0.2

01/11196
AUG 21 100259.0s 37.49S 178.39W 33km M=4.3
0.7 0.08 0.08 R
Rsd 0.2s 9ph/8stn Dmin 337km Az.gap 343°
Corr. -0.765 2M/2stn Msd 0.2

01/11199
AUG 21 103429.6s 36.66S 179.42W 33km M=4.1
1.1 0.05 0.08 R
Rsd 0.5s 10ph/7stn Dmin 312km Az.gap 316°
Corr. 0.101 4M/3stn Msd 0.1

01/11200
AUG 21 103647.3s 36.72S 179.20W 33km M=4.8
1.0 0.05 0.06 R
Rsd 0.4s 15ph/12stn Dmin 322km Az.gap 312°
Corr. 0.074 11M/6stn Msd 0.2

01/11201
AUG 21 110312.6s 36.78S 179.03W 33km M=4.7
0.7 0.04 0.04 R
Rsd 0.2s 16ph/9stn Dmin 330km Az.gap 311°
Corr. 0.108 11M/7stn Msd 0.2

01/11203
AUG 21 112339.4s 37.17S 178.75W 33km M=4.0
2.4 0.12 0.19 R
Rsd 0.6s 7ph/5stn Dmin 362km Az.gap 320°
Corr. -0.292 4M/4stn Msd 0.1

01/11204
AUG 21 114040.8s 36.73S 179.17W 33km M=3.7
1.2 0.07 0.09 R
Rsd 0.4s 4ph/3stn Dmin 370km Az.gap 319°
Corr. -0.041 1M/1stn Msd N.D.

01/11205
AUG 21 121648.7s 36.63S 179.18W 33km M=4.9
0.5 0.04 0.03 R
Rsd 0.2s 24ph/19stn Dmin 338km Az.gap 312°
Corr. 0.003 23M/12stn Msd 0.3

01/11206
AUG 21 122220.7s 36.80S 179.36W 33km M=5.1
0.4 0.03 0.03 R
Rsd 0.2s 26ph/21stn Dmin 306km Az.gap 310°
Corr. 0.031 26M/13stn Msd 0.2

01/11207
AUG 21 123052.3s 37.20S 179.31W 33km M=3.8
0.3 0.03 0.03 R
Rsd 0.1s 5ph/5stn Dmin 333km Az.gap 339°
Corr. -0.630 1M/1stn Msd N.D.

01/11208
AUG 21 123559.3s 36.66S 179.34W 33km M=4.5
1.0 0.06 0.06 R
Rsd 0.2s 10ph/7stn Dmin 361km Az.gap 312°
Corr. 0.074 12M/8stn Msd 0.2

01/11209
AUG 21 124344.7s 36.97S 179.72W 33km M=4.1
1.6 0.08 0.11 R
Rsd 0.3s 10ph/8stn Dmin 314km Az.gap 306°
Corr. 0.758 2M/2stn Msd 0.4

01/11210
AUG 21 124702.8s 37.12S 178.96W 33km M=4.2
1.1 0.05 0.08 R
Rsd 0.3s 7ph/6stn Dmin 363km Az.gap 317°
Corr. -0.402 5M/4stn Msd 0.1

01/11214
AUG 21 130618.4s 36.97S 179.55W 33km M=4.7
0.8 0.04 0.05 R
Rsd 0.3s 19ph/15stn Dmin 281km Az.gap 308°
Corr. 0.495 18M/11stn Msd 0.2

01/11215
AUG 21 131638.3s 37.10S 178.99W 33km M=4.2
0.8 0.07 0.07 R
Rsd 0.3s 10ph/7stn Dmin 311km Az.gap 336°
Corr. -0.500 6M/4stn Msd 0.1

01/11217
AUG 21 133343.5s 37.23S 179.44W 33km M=4.0
0.7 0.10 0.12 R
Rsd 0.1s 4ph/4stn Dmin 322km Az.gap 352°
Corr. -0.943 3M/3stn Msd 0.2

01/11218
AUG 21 133833.8s 37.06S 179.16W 33km M=4.6
0.4 0.02 0.03 R
Rsd 0.1s 10ph/9stn Dmin 354km Az.gap 336°
Corr. -0.747 7M/6stn Msd 0.2

01/11219
AUG 21 134441.0s 36.65S 179.27W 33km M=5.3
0.7 0.05 0.05 R
Rsd 0.4s 25ph/20stn Dmin 323km Az.gap 312°
Corr. 0.139 27M/15stn Msd 0.2 7↑ 1↓

01/11220
AUG 21 135350.3s 37.04S 179.66W 33km M=4.3
1.3 0.05 0.09 R
Rsd 0.4s 10ph/9stn Dmin 316km Az.gap 307°
Corr. 0.166 2M/2stn Msd 0.2

01/11221
AUG 21 140111.2s 37.42S 179.43W 33km M=4.2
1.2 0.15 0.15 R
Rsd 0.3s 5ph/3stn Dmin 260km Az.gap 347°
Corr. -0.823 1M/1stn Msd N.D.

01/11222
AUG 21 140644.8s 36.89S 179.33W 33km M=4.1
1.1 0.05 0.08 R
Rsd 0.4s 6ph/5stn Dmin 349km Az.gap 310°
Corr. -0.165 3M/3stn Msd 0.2

01/11223
AUG 21 141318.1s 36.69S 179.25W 33km M=4.8
1.0 0.05 0.06 R
Rsd 0.4s 24ph/18stn Dmin 321km Az.gap 312°
Corr. 0.197 21M/11stn Msd 0.2 1↑

01/11224
AUG 21 141354.4s 36.82S 179.71W 33km M=4.6
1.6 0.11 0.08 R
Rsd 0.3s 11ph/7stn Dmin 281km Az.gap 308°
Corr. 0.285 12M/6stn Msd 0.2

01/11225
AUG 21 142520.6s 36.83S 179.44W 33km M=4.7
0.6 0.03 0.04 R
Rsd 0.2s 20ph/16stn Dmin 298km Az.gap 309°
Corr. 0.253 13M/8stn Msd 0.2

01/11226
AUG 21 143231.3s 36.76S 179.31W 33km M=4.7
0.6 0.03 0.04 R
Rsd 0.3s 23ph/17stn Dmin 312km Az.gap 311°
Corr. 0.152 12M/7stn Msd 0.2

01/11227
AUG 21 143729.5s 36.48S 178.61E 33km M=3.8
1.4 0.12 0.10 R
Rsd 0.4s 5ph/3stn Dmin 238km Az.gap 339°
Corr. -0.699 1M/1stn Msd N.D.

01/11228
AUG 21 144454.0s 36.92S 179.33W 33km M=4.8
0.7 0.04 0.05 R
Rsd 0.2s 22ph/19stn Dmin 299km Az.gap 310°
Corr. 0.098 16M/9stn Msd 0.1

01/11229
AUG 21 144852.0s 36.50S 178.40W 33km M=4.3
0.4 R R R
Rsd 0.8s 4ph/3stn Dmin 443km Az.gap 345°
Corr. R 6M/3stn Msd 0.2

01/11230
AUG 21 145640.9s 36.67S 179.44W 33km M=4.8
0.7 0.05 0.05 R
Rsd 0.3s 20ph/17stn Dmin 310km Az.gap 311°
Corr. 0.093 18M/9stn Msd 0.3

01/11232
AUG 21 150343.5s 36.87S 179.47W 33km M=3.8
0.8 0.04 0.05 R
Rsd 0.2s 4ph/3stn Dmin 346km Az.gap 315°
Corr. 0.390 1M/1stn Msd N.D.

01/11233
AUG 21 150704.6s 37.08S 179.36W 33km M=4.6
0.8 0.04 0.05 R
Rsd 0.2s 11ph/9stn Dmin 286km Az.gap 307°
Corr. 0.168 8M/5stn Msd 0.3

01/11234
AUG 21 150713.9s 36.69S 179.74W 33km M=4.9
1.3 0.06 0.09 R
Rsd 0.2s 11ph/9stn Dmin 290km Az.gap 309°
Corr. 0.471 14M/7stn Msd 0.1

01/11235
AUG 21 151059.0s 36.87S 179.32W 33km M=4.5
0.5 0.04 0.04 R
Rsd 0.2s 11ph/8stn Dmin 303km Az.gap 312°
Corr. -0.169 10M/6stn Msd 0.1

01/11237
AUG 21 153803.8s 37.55S 178.87W 33km M=3.7
1.7 0.12 0.14 R
Rsd 0.5s 7ph/6stn Dmin 296km Az.gap 328°
Corr. -0.341 2M/2stn Msd 0.1

01/11238
AUG 21 154533.0s 36.72S 179.27W 33km M=4.3
0.7 0.04 0.05 R
Rsd 0.2s 15ph/12stn Dmin 317km Az.gap 313°
Corr. 0.110 6M/3stn Msd 0.2

01/11239
AUG 21 154825.3s 36.68S 179.18W 33km M=4.0
1.1 0.04 0.09 R
Rsd 0.3s 6ph/6stn Dmin 327km Az.gap 318°
Corr. 0.005 1M/1stn Msd N.D.

01/11240
AUG 21 155417.5s 37.23S 179.01W 33km M=3.9
1.5 0.13 0.10 R
Rsd 0.5s 7ph/5stn Dmin 302km Az.gap 339°
Corr. -0.363 2M/2stn Msd 0.0

01/11241
AUG 21 155909.9s 37.21S 178.89W 33km M=4.0
0.9 0.06 0.09 R
Rsd 0.3s 6ph/5stn Dmin 362km Az.gap 335°
Corr. -0.668 2M/2stn Msd 0.2

01/11242
AUG 21 160515.3s 36.72S 179.26W 33km M=4.5
0.7 0.04 0.05 R
Rsd 0.2s 15ph/11stn Dmin 319km Az.gap 312°
Corr. 0.264 13M/9stn Msd 0.2

01/11243
AUG 21 161353.1s 36.64S 179.32W 33km M=4.2
0.8 0.05 0.05 R
Rsd 0.3s 10ph/7stn Dmin 364km Az.gap 316°
Corr. 0.010 4M/2stn Msd 0.2

01/11244
AUG 21 161403.2s 36.18S 177.26W 33km M=4.5
0.9 0.09 0.07 R
Rsd 0.2s 7ph/4stn Dmin 547km Az.gap 345°
Corr. -0.696 2M/2stn Msd 0.1

01/11245
AUG 21 161511.5s 36.87S 178.60W 33km M=4.4
1.6 0.10 0.12 R
Rsd 0.5s 11ph/7stn Dmin 405km Az.gap 315°
Corr. -0.537 6M/4stn Msd 0.1

01/11246
AUG 21 161527.3s 37.04S 178.39W 33km M=4.5
1.4 0.10 0.10 R
Rsd 0.4s 12ph/7stn Dmin 409km Az.gap 317°
Corr. -0.544 4M/2stn Msd 0.2

01/11247
AUG 21 162832.5s 36.85S 179.39W 33km M=4.3
1.5 0.07 0.09 R
Rsd 0.7s 9ph/4stn Dmin 347km Az.gap 310°
Corr. 0.021 2M/2stn Msd 0.1

01/11248
AUG 21 163719.9s 37.30S 179.10W 33km M=4.3
0.9 0.08 0.07 R
Rsd 0.4s 9ph/5stn Dmin 291km Az.gap 338°
Corr. -0.408 3M/2stn Msd 0.1

01/11251
AUG 21 164216.3s 37.04S 179.15W 33km M=4.3
1.1 0.05 0.08 R
Rsd 0.4s 9ph/7stn Dmin 356km Az.gap 316°
Corr. -0.213 7M/3stn Msd 0.1

01/11253
AUG 21 170409.6s 37.79S 178.21W 33km M=3.9
1.8 0.11 0.17 R
Rsd 0.2s 4ph/4stn Dmin 384km Az.gap 339°
Corr. -0.872 2M/2stn Msd 0.1

01/11254
AUG 21 170710.8s 36.75S 179.48W 33km M=4.4
0.7 0.02 0.04 R
Rsd 0.2s 9ph/8stn Dmin 429km Az.gap 310°
Corr. -0.179 8M/5stn Msd 0.2

01/11255
AUG 21 171858.7s 36.95S 179.48W 33km M=4.2
1.2 0.06 0.08 R
Rsd 0.4s 11ph/8stn Dmin 335km Az.gap 313°
Corr. 0.273 8M/6stn Msd 0.2

01/11256
AUG 21 172037.2s 36.59S 178.99W 33km M=5.0
0.7 0.03 0.05 R
Rsd 0.2s 26ph/20stn Dmin 346km Az.gap 314°
Corr. 0.338 19M/10stn Msd 0.2

01/11257
AUG 21 172244.9s 37.34S 179.34W 33km M=4.1
0.4 0.02 0.02 R
Rsd 0.1s 5ph/3stn Dmin 329km Az.gap 334°
Corr. -0.285 3M/3stn Msd 0.3

01/11258
AUG 21 172429.1s 36.90S 179.46W 33km M=4.8
0.9 0.04 0.06 R
Rsd 0.3s 22ph/17stn Dmin 292km Az.gap 309°
Corr. 0.433 16M/8stn Msd 0.2

01/11259
AUG 21 172748.0s 36.80S 179.57W 33km M=4.4
1.7 0.06 0.12 R
Rsd 0.2s 9ph/9stn Dmin 292km Az.gap 310°
Corr. 0.588 17M/15stn Msd 0.2

01/11261
AUG 21 173048.8s 36.86S 179.53W 33km M=4.6
0.7 0.03 0.04 R
Rsd 0.2s 10ph/9stn Dmin 290km Az.gap 310°
Corr. 0.297 15M/11stn Msd 0.2

01/11262
AUG 21 173350.2s 36.91S 179.54W 33km M=4.3
0.7 0.03 0.05 R
Rsd 0.3s 14ph/11stn Dmin 285km Az.gap 308°
Corr. 0.069 8M/6stn Msd 0.2

01/11263
AUG 21 173429.5s 36.95S 179.49W 33km M=4.2
1.2 0.05 0.08 R
Rsd 0.3s 8ph/6stn Dmin 333km Az.gap 314°
Corr. -0.397 4M/2stn Msd 0.1

01/11264
AUG 21 173730.5s 37.12S 178.92W 33km M=4.3
1.1 0.05 0.08 R
Rsd 0.3s 10ph/8stn Dmin 315km Az.gap 314°
Corr. -0.296 7M/3stn Msd 0.1

01/11266
AUG 21 175739.6s 37.02S 179.39W 33km M=4.1
1.5 0.06 0.11 R
Rsd 0.5s 9ph/7stn Dmin 338km Az.gap 313°
Corr. -0.271 4M/2stn Msd 0.1

01/11267
AUG 21 181555.7s 36.91S 179.41W 33km M=4.6
0.4 0.02 0.03 R
Rsd 0.2s 14ph/11stn Dmin 342km Az.gap 310°
Corr. 0.098 8M/5stn Msd 0.2

01/11268
AUG 21 181755.5s 37.13S 179.58W 33km M=4.4
1.3 0.04 0.10 R
Rsd 0.2s 7ph/7stn Dmin 317km Az.gap 310°
Corr. -0.554 5M/3stn Msd 0.1

01/11269
AUG 21 183436.7s 36.77S 179.60W 33km M=4.9
0.7 0.04 0.05 R
Rsd 0.2s 19ph/14stn Dmin 292km Az.gap 310°
Corr. -0.145 18M/9stn Msd 0.2

01/11270
AUG 21 184227.2s 37.38S 179.19W 33km M=4.2
1.0 0.09 0.08 R
Rsd 0.4s 8ph/6stn Dmin 280km Az.gap 338°
Corr. -0.452 4M/2stn Msd 0.2

01/11271
AUG 21 184738.4s 37.01S 179.51W 33km M=4.6
0.8 0.03 0.05 R
Rsd 0.3s 8ph/7stn Dmin 333km Az.gap 308°
Corr. -0.063 8M/5stn Msd 0.3

01/11272
AUG 21 185835.6s 36.76S 179.33W 33km M=4.7
0.5 0.03 0.03 R
Rsd 0.2s 17ph/13stn Dmin 311km Az.gap 310°
Corr. 0.260 11M/6stn Msd 0.1

01/11273
AUG 21 191457.4s 36.72S 179.13W 33km M=4.5
0.9 0.06 0.07 R
Rsd 0.4s 10ph/7stn Dmin 374km Az.gap 316°
Corr. -0.073 8M/5stn Msd 0.1

01/11274
AUG 21 191919.6s 36.88S 179.49W 33km M=4.7
0.9 0.05 0.05 R
Rsd 0.3s 18ph/14stn Dmin 291km Az.gap 308°
Corr. 0.386 11M/6stn Msd 0.2

01/11275
AUG 21 192834.3s 37.11S 179.27W 33km M=4.4
0.7 0.05 0.05 R
Rsd 0.3s 10ph/8stn Dmin 290km Az.gap 315°
Corr. -0.371 11M/9stn Msd 0.2

01/11276
AUG 21 194247.2s 36.50S 178.40W 33km M=4.1
0.4 R R R
Rsd 1.0s 5ph/5stn Dmin 409km Az.gap 322°
Corr. R 2M/2stn Msd 0.4

01/11277
AUG 21 194428.7s 36.50S 178.40W 33km M=4.3
0.1 R R R
Rsd 0.1s 6ph/6stn Dmin 606km Az.gap 345°
Corr. R 3M/3stn Msd 0.1

01/11278
AUG 21 200617.5s 36.68S 179.45W 33km M=4.5
1.1 0.06 0.07 R
Rsd 0.4s 11ph/7stn Dmin 309km Az.gap 311°
Corr. 0.175 7M/5stn Msd 0.2

01/11279
AUG 21 202249.9s 36.93S 178.93W 33km M=4.7
0.8 0.05 0.06 R
Rsd 0.3s 10ph/9stn Dmin 326km Az.gap 311°
Corr. -0.110 6M/6stn Msd 0.2 1↑

01/11280
AUG 21 204039.5s 37.17S 179.10W 33km M=4.0
1.0 0.13 0.06 R
Rsd 0.2s 4ph/3stn Dmin 299km Az.gap 344°
Corr. -0.226 1M/1stn Msd N.D.

01/11281
AUG 21 210523.1s 37.13S 178.96W 33km M=4.2
1.7 0.17 0.14 R
Rsd 0.5s 5ph/3stn Dmin 363km Az.gap 340°
Corr. -0.504 3M/3stn Msd 0.6

01/11283
AUG 21 212558.5s 36.88S 179.51W 33km M=4.3
1.6 0.06 0.11 R
Rsd 0.4s 10ph/8stn Dmin 290km Az.gap 308°
Corr. 0.338 6M/2stn Msd 0.1

01/11285
AUG 21 222554.7s 36.75S 178.95W 33km M=4.6
1.2 0.05 0.09 R
Rsd 0.4s 11ph/9stn Dmin 387km Az.gap 314°
Corr. 0.330 10M/4stn Msd 0.2

01/11288
AUG 21 225354.9s 37.42S 179.11W 33km M=4.5
0.4 0.05 0.03 R
Rsd 0.1s 11ph/8stn Dmin 284km Az.gap 329°
Corr. -0.282 13M/8stn Msd 0.1

01/11289
AUG 21 225656.0s 36.77S 178.95E 33km M=4.1
0.7 0.03 0.04 R
Rsd 0.4s 21ph/16stn Dmin 177km Az.gap 291°
Corr. 0.453 10M/10stn Msd 0.3

01/11290
AUG 21 235302.8s 36.67S 178.82W 33km M=4.0
2.0 0.13 0.13 R
Rsd 0.4s 4ph/3stn Dmin 401km Az.gap 326°
Corr. 0.132 1M/1stn Msd N.D.

01/11291
AUG 22 000154.7s 36.78S 179.28W 33km M=4.6
0.7 0.04 0.05 R
Rsd 0.2s 13ph/9stn Dmin 313km Az.gap 310°
Corr. 0.241 16M/11stn Msd 0.2 1↑

01/11293
AUG 22 001007.6s 37.17S 178.80W 33km M=4.4
1.1 0.08 0.09 R
Rsd 0.4s 9ph/6stn Dmin 371km Az.gap 329°
Corr. -0.368 6M/2stn Msd 0.1

01/11294
AUG 22 001137.4s 37.45S 178.85W 33km M=4.3
1.0 0.09 0.06 R
Rsd 0.3s 7ph/4stn Dmin 351km Az.gap 335°
Corr. -0.303 3M/3stn Msd 0.5

01/11295
AUG 22 001713.7s 37.27S 179.17W 33km M=3.7
0.8 0.07 0.06 R
Rsd 0.3s 6ph/3stn Dmin 338km Az.gap 339°
Corr. -0.291 2M/2stn Msd 0.1

01/11297
AUG 22 002709.2s 36.73S 179.37W 33km M=4.4
0.9 0.04 0.06 R
Rsd 0.3s 8ph/5stn Dmin 354km Az.gap 312°
Corr. 0.173 6M/4stn Msd 0.3

01/11298
AUG 22 003943.6s 36.61S 179.38W 33km M=4.8
0.6 0.03 0.04 R
Rsd 0.2s 13ph/9stn Dmin 319km Az.gap 311°
Corr. 0.549 16M/8stn Msd 0.2

01/11299
AUG 22 004416.3s 36.69S 179.42W 33km M=4.4
1.2 0.06 0.07 R
Rsd 0.5s 8ph/5stn Dmin 353km Az.gap 316°
Corr. 0.012 5M/4stn Msd 0.2

01/11301
AUG 22 012911.5s 36.96S 179.22W 33km M=3.9
0.3 0.03 0.02 R
Rsd 0.1s 6ph/3stn Dmin 304km Az.gap 344°
Corr. -0.561 1M/1stn Msd N.D.

01/11302
AUG 22 022249.5s 36.86S 179.39W 33km M=3.8
1.1 0.06 0.07 R
Rsd 0.5s 8ph/5stn Dmin 346km Az.gap 316°
Corr. 0.075 3M/3stn Msd 0.2

01/11303
AUG 22 022525.1s 36.76S 179.54W 33km M=4.6
0.8 0.05 0.05 R
Rsd 0.3s 15ph/11stn Dmin 340km Az.gap 310°
Corr. 0.093 14M/9stn Msd 0.2

01/11304
AUG 22 025847.6s 36.74S 179.36W 33km M=4.7
0.9 0.04 0.07 R
Rsd 0.3s 10ph/8stn Dmin 355km Az.gap 312°
Corr. 0.339 4M/3stn Msd 0.3

01/11305
AUG 22 030255.6s 36.76S 179.51W 33km M=4.7
0.7 0.03 0.05 R
Rsd 0.3s 25ph/19stn Dmin 298km Az.gap 310°
Corr. 0.216 11M/6stn Msd 0.2 1↑

01/11306
AUG 22 031610.4s 36.75S 179.29W 33km M=5.1
0.6 0.04 0.04 R
Rsd 0.3s 21ph/16stn Dmin 314km Az.gap 310°
Corr. 0.161 24M/13stn Msd 0.2 1↓

01/11308
AUG 22 033754.7s 36.98S 179.04W 33km M=4.5
0.5 0.03 0.04 R
Rsd 0.2s 9ph/7stn Dmin 315km Az.gap 337°
Corr. -0.531 9M/5stn Msd 0.2

01/11311
AUG 22 043927.9s 36.90S 179.45W 33km M=5.3
0.7 0.04 0.05 R
Rsd 0.2s 21ph/17stn Dmin 292km Az.gap 308°
Corr. 0.045 29M/15stn Msd 0.1

01/11312
AUG 22 044202.5s 36.82S 179.52W 33km M=4.5
0.7 0.05 0.05 R
Rsd 0.2s 10ph/8stn Dmin 293km Az.gap 309°
Corr. -0.086 18M/14stn Msd 0.2

01/11313
AUG 22 045638.5s 37.29S 179.31W 33km M=4.3
0.6 0.05 0.04 R
Rsd 0.2s 9ph/7stn Dmin 327km Az.gap 334°
Corr. -0.423 5M/3stn Msd 0.1

01/11314
AUG 22 050525.6s 37.23S 179.28W 33km M=4.3
0.5 0.05 0.03 R
Rsd 0.2s 10ph/8stn Dmin 281km Az.gap 332°
Corr. -0.440 6M/4stn Msd 0.1

01/11315
AUG 22 051709.3s 37.42S 179.29W 33km M=4.2
1.8 0.15 0.12 R
Rsd 0.6s 8ph/6stn Dmin 320km Az.gap 330°
Corr. -0.393 4M/3stn Msd 0.1

01/11316
AUG 22 052648.0s 37.20S 179.21W 33km M=4.4
0.6 0.05 0.05 R
Rsd 0.2s 6ph/4stn Dmin 340km Az.gap 335°
Corr. -0.433 4M/2stn Msd 0.2

01/11317
AUG 22 052802.5s 36.85S 179.39W 33km M=5.0
0.7 0.04 0.05 R
Rsd 0.3s 15ph/11stn Dmin 300km Az.gap 310°
Corr. 0.399 12M/7stn Msd 0.2

01/11321
AUG 22 064500.2s 36.89S 178.85W 33km M=4.3
1.1 0.07 0.09 R
Rsd 0.4s 9ph/7stn Dmin 335km Az.gap 320°
Corr. -0.220 4M/2stn Msd 0.1

01/11322
AUG 22 070511.9s 36.76S 179.03W 33km M=4.4
0.9 0.05 0.06 R
Rsd 0.4s 10ph/7stn Dmin 380km Az.gap 319°
Corr. 0.000 4M/2stn Msd 0.0

01/11323
AUG 22 071158.6s 38.13S 176.48E 149km M=4.2
0.4 0.02 0.01 3
Rsd 0.2s 21ph/16stn Dmin 12km Az.gap 115°
Corr. -0.159 11M/8stn Msd 0.2 6↑ 1↓

01/11324
AUG 22 072058.0s 37.10S 178.92W 33km M=4.1
0.9 0.11 0.06 R
Rsd 0.2s 6ph/3stn Dmin 317km Az.gap 345°
Corr. -0.518 1M/1stn Msd N.D.

01/11325
AUG 22 072111.4s 41.29S 172.55E 200km M=4.0
0.4 0.02 0.02 3
Rsd 0.3s 30ph/22stn Dmin 52km Az.gap 127°
Corr. -0.236 7M/6stn Msd 0.3 11↑ 2↓

01/11326
AUG 22 072527.2s 36.76S 179.50W 33km M=4.8
0.6 0.04 0.04 R
Rsd 0.2s 19ph/14stn Dmin 300km Az.gap 309°
Corr. 0.144 18M/9stn Msd 0.1

01/11327
AUG 22 072902.8s 37.22S 179.23W 33km M=4.4
0.7 0.06 0.04 R
Rsd 0.2s 10ph/8stn Dmin 286km Az.gap 311°
Corr. -0.021 7M/5stn Msd 0.2

01/11328
AUG 22 073305.5s 36.97S 179.47W 33km M=4.0
1.7 0.07 0.13 R
Rsd 0.5s 8ph/7stn Dmin 334km Az.gap 310°
Corr. -0.295 5M/3stn Msd 0.2

01/11329
AUG 22 075814.3s 36.87S 179.48W 33km M=4.4
0.8 0.03 0.06 R
Rsd 0.3s 14ph/11stn Dmin 293km Az.gap 309°
Corr. 0.100 7M/6stn Msd 0.2

01/11330
AUG 22 081053.0s 36.95S 179.60W 33km M=4.5
0.8 0.04 0.05 R
Rsd 0.3s 13ph/9stn Dmin 278km Az.gap 307°
Corr. 0.296 10M/6stn Msd 0.2

01/11334
AUG 22 085809.0s 37.38S 179.28W 33km M=4.1
0.6 0.06 0.05 R
Rsd 0.2s 5ph/4stn Dmin 323km Az.gap 340°
Corr. -0.479 4M/3stn Msd 0.3

01/11335
AUG 22 091325.3s 36.89S 179.53W 33km M=4.6
0.5 0.03 0.03 R
Rsd 0.2s 17ph/11stn Dmin 288km Az.gap 308°
Corr. 0.275 8M/4stn Msd 0.2

01/11336
AUG 22 093955.3s 36.95S 179.09W 33km M=4.1
1.0 0.04 0.07 R
Rsd 0.4s 7ph/5stn Dmin 365km Az.gap 317°
Corr. 0.109 2M/1stn Msd 0.0

01/11337
AUG 22 094931.7s 37.13S 178.90W 33km M=4.4
0.2 0.02 0.02 R
Rsd 0.1s 9ph/7stn Dmin 367km Az.gap 339°
Corr. -0.482 2M/2stn Msd 0.2

01/11338
AUG 22 101437.9s 37.08S 179.40W 33km M=4.5
0.7 0.04 0.05 R
Rsd 0.3s 21ph/16stn Dmin 283km Az.gap 308°
Corr. -0.074 16M/13stn Msd 0.2

01/11340
AUG 22 101709.5s 36.98S 179.15W 33km M=4.5
0.4 0.04 0.04 R
Rsd 0.2s 9ph/8stn Dmin 360km Az.gap 337°
Corr. -0.477 3M/3stn Msd 0.1

01/11343
AUG 22 105802.8s 36.96S 179.48W 33km M=4.4
0.6 0.03 0.04 R
Rsd 0.2s 14ph/10stn Dmin 286km Az.gap 307°
Corr. 0.219 10M/7stn Msd 0.2

01/11344
AUG 22 110337.7s 36.77S 179.37W 33km M=4.2
1.1 0.05 0.07 R
Rsd 0.4s 10ph/6stn Dmin 307km Az.gap 311°
Corr. 0.049 2M/2stn Msd 0.2

01/11345
AUG 22 111720.2s 36.67S 179.27W 33km M=4.5
1.0 0.06 0.06 R
Rsd 0.3s 10ph/6stn Dmin 366km Az.gap 312°
Corr. 0.308 15M/11stn Msd 0.3

01/11346
AUG 22 113043.3s 37.04S 179.30W 33km M=4.4
0.9 0.06 0.06 R
Rsd 0.3s 11ph/8stn Dmin 293km Az.gap 311°
Corr. -0.068 11M/9stn Msd 0.2

01/11348
AUG 22 115831.5s 36.84S 179.42W 33km M=4.3
1.5 0.06 0.10 R
Rsd 0.3s 9ph/7stn Dmin 299km Az.gap 310°
Corr. 0.759 5M/5stn Msd 0.2

01/11350
AUG 22 120315.9s 36.88S 179.23W 33km M=4.3
0.8 0.04 0.06 R
Rsd 0.3s 22ph/16stn Dmin 309km Az.gap 312°
Corr. 0.186 13M/11stn Msd 0.2

01/11351
AUG 22 121646.7s 36.94S 179.38W 33km M=4.1
1.3 0.07 0.08 R
Rsd 0.5s 7ph/4stn Dmin 343km Az.gap 312°
Corr. 0.175 2M/2stn Msd 0.1

01/11352
AUG 22 121833.4s 36.76S 179.30W 33km M=4.6
0.9 0.05 0.06 R
Rsd 0.4s 12ph/9stn Dmin 313km Az.gap 310°
Corr. 0.354 18M/13stn Msd 0.2

01/11353
AUG 22 122005.1s 36.96S 178.99W 33km M=4.4
1.6 0.23 0.18 R
Rsd 0.5s 7ph/6stn Dmin 320km Az.gap 338°
Corr. -0.762 3M/3stn Msd 0.1

01/11354
AUG 22 123353.7s 37.42S 179.23W 33km M=3.7
0.9 0.10 0.05 R
Rsd 0.2s 4ph/3stn Dmin 324km Az.gap 343°
Corr. -0.326 2M/2stn Msd 0.1

01/11355
AUG 22 124402.4s 36.82S 179.58W 33km M=4.2
1.4 0.08 0.08 R
Rsd 0.5s 10ph/7stn Dmin 290km Az.gap 310°
Corr. 0.339 7M/5stn Msd 0.2

01/11356
AUG 22 130501.8s 36.94S 179.43W 33km M=4.2
1.0 0.05 0.08 R
Rsd 0.4s 9ph/6stn Dmin 291km Az.gap 316°
Corr. -0.253 6M/5stn Msd 0.2

01/11359
AUG 22 132741.9s 37.04S 179.33W 33km M=4.6
0.9 0.05 0.06 R
Rsd 0.3s 17ph/12stn Dmin 291km Az.gap 307°
Corr. 0.333 16M/11stn Msd 0.2

01/11360
AUG 22 134025.0s 36.89S 179.46W 33km M=4.4
0.6 0.04 0.04 R
Rsd 0.2s 16ph/12stn Dmin 292km Az.gap 308°
Corr. 0.166 15M/12stn Msd 0.3

01/11361
AUG 22 134156.8s 36.96S 179.42W 33km M=5.0
0.9 0.05 0.06 R
Rsd 0.4s 25ph/20stn Dmin 290km Az.gap 308°
Corr. 0.336 20M/11stn Msd 0.2

01/11362
AUG 22 135426.5s 37.36S 179.25W 33km M=4.1
0.5 0.04 0.03 R
Rsd 0.2s 5ph/3stn Dmin 316km Az.gap 330°
Corr. -0.194 1M/1stn Msd N.D.

01/11363
AUG 22 140713.1s 36.84S 178.95W 33km M=4.2
1.1 0.05 0.08 R
Rsd 0.4s 10ph/8stn Dmin 331km Az.gap 315°
Corr. -0.005 5M/4stn Msd 0.2

01/11364
AUG 22 141500.1s 37.04S 179.62W 33km M=4.7
0.5 0.03 0.04 R
Rsd 0.2s 23ph/18stn Dmin 271km Az.gap 306°
Corr. 0.070 19M/11stn Msd 0.2

01/11365
AUG 22 144410.1s 37.23S 178.66W 33km M=4.0
1.7 0.17 0.11 R
Rsd 0.6s 10ph/8stn Dmin 329km Az.gap 335°
Corr. -0.208 5M/3stn Msd 0.3

01/11367
AUG 22 145135.2s 37.03S 179.28W 33km M=4.4
1.0 0.07 0.07 R
Rsd 0.3s 11ph/9stn Dmin 295km Az.gap 309°
Corr. 0.003 6M/4stn Msd 0.1

01/11368
AUG 22 145817.1s 37.24S 179.25W 33km M=3.6
0.2 0.03 0.02 R
Rsd 0.1s 7ph/3stn Dmin 283km Az.gap 343°
Corr. -0.357 1M/1stn Msd N.D.

01/11369
AUG 22 150102.4s 36.93S 179.37W 33km M=4.9
0.4 0.04 0.03 R
Rsd 0.2s 28ph/22stn Dmin 296km Az.gap 308°
Corr. -0.077 17M/10stn Msd 0.2 1↑

01/11370
AUG 22 151712.9s 36.81S 179.31W 33km M=4.7
0.8 0.05 0.05 R
Rsd 0.4s 25ph/21stn Dmin 308km Az.gap 311°
Corr. 0.111 10M/6stn Msd 0.2

01/11371
AUG 22 151930.7s 45.10S 167.40E 102km M=3.7
0.3 0.02 0.02 3
Rsd 0.2s 16ph/9stn Dmin 45km Az.gap 197°
Corr. -0.196 10M/6stn Msd 0.4 3↑ 4↓

01/11372
AUG 22 152020.3s 37.01S 179.14W 33km M=4.1
0.1 0.02 0.01 R
Rsd 0.0s 4ph/2stn Dmin 358km Az.gap 344°
Corr. -0.498 2M/1stn Msd 0.0

01/11375
AUG 22 161313.1s 36.89S 179.44W 33km M=4.7
0.5 0.03 0.03 R
Rsd 0.2s 24ph/19stn Dmin 293km Az.gap 308°
Corr. 0.211 17M/9stn Msd 0.2 1↑

01/11376
AUG 22 163039.5s 37.04S 178.88W 33km M=3.8
0.3 0.04 0.02 R
Rsd 0.1s 4ph/2stn Dmin 374km Az.gap 345°
Corr. -0.500 1M/1stn Msd N.D.

01/11378
AUG 22 165428.5s 37.26S 179.32W 33km M=3.8
0.1 0.02 0.01 R
Rsd 0.0s 8ph/6stn Dmin 277km Az.gap 343°
Corr. -0.124 1M/1stn Msd N.D.

01/11379
AUG 22 171258.7s 36.99S 178.89W 33km M=4.1
0.8 0.10 0.06 R
Rsd 0.3s 6ph/3stn Dmin 376km Az.gap 345°
Corr. -0.535 2M/1stn Msd 0.0

01/11380
AUG 22 171528.3s 36.86S 179.47W 33km M=4.0
0.9 0.05 0.06 R
Rsd 0.4s 6ph/3stn Dmin 340km Az.gap 315°
Corr. 0.045 1M/1stn Msd N.D.

01/11382
AUG 22 173242.2s 36.83S 179.56W 33km M=4.7
0.7 0.03 0.05 R
Rsd 0.2s 16ph/14stn Dmin 291km Az.gap 309°
Corr. 0.267 16M/10stn Msd 0.2 1↑

01/11383
AUG 22 173421.9s 36.72S 179.50W 33km M=4.5
0.6 0.04 0.03 R
Rsd 0.1s 10ph/9stn Dmin 302km Az.gap 310°
Corr. 0.500 8M/7stn Msd 0.1

01/11385
AUG 22 181403.1s 36.87S 179.32W 33km M=4.4
2.6 0.13 0.16 R
Rsd 0.5s 4ph/3stn Dmin 351km Az.gap 317°
Corr. 0.693 1M/1stn Msd N.D.

01/11386
AUG 22 182852.7s 36.63S 179.22W 33km M=4.0
0.9 0.06 0.06 R
Rsd 0.3s 10ph/6stn Dmin 371km Az.gap 318°
Corr. 0.051 4M/3stn Msd 0.1

01/11387
AUG 22 185507.8s 37.36S 179.14W 33km M=3.7
1.0 0.06 0.07 R
Rsd 0.3s 4ph/3stn Dmin 335km Az.gap 330°
Corr. -0.237 1M/1stn Msd N.D.

01/11388
AUG 22 190552.4s 36.82S 179.16W 33km M=4.1
0.9 0.06 0.07 R
Rsd 0.3s 7ph/5stn Dmin 367km Az.gap 319°
Corr. -0.369 1M/1stn Msd N.D.

01/11389
AUG 22 191508.0s 34.97S 178.25E 33km M=4.6
0.4 0.03 0.06 R
Rsd 0.1s 5ph/3stn Dmin 379km Az.gap 348°
Corr. -0.394 1M/1stn Msd N.D. 1↑

01/11391
AUG 22 192647.0s 36.80S 179.40W 33km M=3.8
1.0 0.05 0.06 R
Rsd 0.4s 8ph/5stn Dmin 349km Az.gap 311°
Corr. -0.025 2M/2stn Msd 0.3

01/11392
AUG 22 192922.4s 36.85S 179.49W 33km M=4.5
0.5 0.02 0.03 R
Rsd 0.2s 17ph/13stn Dmin 293km Az.gap 309°
Corr. 0.326 16M/12stn Msd 0.1

01/11393
AUG 22 195229.1s 36.87S 179.20W 33km M=3.9
1.1 0.05 0.08 R
Rsd 0.4s 6ph/5stn Dmin 361km Az.gap 317°
Corr. -0.288 3M/3stn Msd 0.3

01/11394
AUG 22 202233.7s 36.58S 179.19W 33km M=4.7
0.4 0.03 0.03 R
Rsd 0.2s 16ph/11stn Dmin 334km Az.gap 313°
Corr. 0.072 10M/6stn Msd 0.2

01/11395
AUG 22 221317.5s 36.98S 179.60W 33km M=4.0
0.7 0.04 0.05 R
Rsd 0.3s 5ph/3stn Dmin 323km Az.gap 314°
Corr. 0.197 3M/2stn Msd 0.1

01/11396
AUG 22 224928.8s 36.60S 179.21W 33km M=4.4
1.0 0.05 0.07 R
Rsd 0.3s 10ph/7stn Dmin 331km Az.gap 313°
Corr. 0.006 11M/9stn Msd 0.2

01/11399
AUG 22 234436.0s 36.69S 179.14W 33km M=3.6
1.2 0.06 0.09 R
Rsd 0.4s 5ph/4stn Dmin 375km Az.gap 318°
Corr. 0.226 1M/1stn Msd N.D.

01/11402
AUG 23 005555.3s 36.80S 178.55E 28km M=4.2
0.6 0.02 0.03 3
Rsd 0.2s 18ph/15stn Dmin 146km Az.gap 284°
Corr. 0.590 10M/8stn Msd 0.2 1↓

01/11405
AUG 23 030734.9s 37.04S 179.13W 33km M=4.1
1.0 0.05 0.07 R
Rsd 0.3s 6ph/5stn Dmin 356km Az.gap 316°
Corr. -0.245 2M/2stn Msd 0.1

01/11406
AUG 23 031913.1s 36.95S 178.98W 33km M=4.2
0.7 0.05 0.05 R
Rsd 0.3s 6ph/4stn Dmin 322km Az.gap 325°
Corr. -0.222 2M/1stn Msd 0.1

01/11407
AUG 23 044008.7s 37.07S 179.24W 33km M=4.1
0.5 0.03 0.04 R
Rsd 0.2s 6ph/4stn Dmin 347km Az.gap 319°
Corr. -0.291 2M/1stn Msd 0.0

01/11408
AUG 23 051316.4s 37.02S 179.38W 33km M=4.5
0.6 0.04 0.05 R
Rsd 0.2s 11ph/8stn Dmin 310km Az.gap 313°
Corr. 0.026 7M/5stn Msd 0.2

01/11409
AUG 23 052031.8s 36.58S 179.12W 33km M=4.8
1.2 0.08 0.09 R
Rsd 0.4s 15ph/11stn Dmin 337km Az.gap 314°
Corr. -0.063 12M/7stn Msd 0.2

01/11410
AUG 23 052333.3s 36.82S 179.51W 33km M=4.3
1.1 0.04 0.08 R
Rsd 0.3s 9ph/7stn Dmin 294km Az.gap 311°
Corr. 0.310 4M/2stn Msd 0.3

01/11412
AUG 23 071314.9s 36.77S 178.98W 33km M=4.3
1.3 0.08 0.09 R
Rsd 0.4s 7ph/5stn Dmin 383km Az.gap 318°
Corr. -0.305 4M/2stn Msd 0.1

01/11413
AUG 23 073830.4s 36.99S 178.81W 33km M=4.1
1.8 0.25 0.07 R
Rsd 0.4s 4ph/2stn Dmin 382km Az.gap 346°
Corr. -0.438 2M/1stn Msd 0.1

01/11415
AUG 23 082338.1s 36.86S 179.19W 33km M=4.3
0.8 0.05 0.06 R
Rsd 0.3s 12ph/10stn Dmin 313km Az.gap 311°
Corr. 0.085 8M/6stn Msd 0.1

01/11416
AUG 23 084653.8s 37.18S 178.91W 33km M=4.1
3.0 0.23 0.20 R
Rsd 0.8s 4ph/3stn Dmin 363km Az.gap 332°
Corr. -0.261 3M/1stn Msd 0.0

01/11420
AUG 23 095354.9s 36.50S 178.40W 33km M=4.1
1.0 R R R
Rsd 1.8s 3ph/1stn Dmin 443km Az.gap 360°
Corr. R 1M/1stn Msd N.D.

01/11423
AUG 23 110236.3s 37.29S 179.10W 33km M=3.6
2.6 0.16 0.20 R
Rsd 0.6s 4ph/3stn Dmin 342km Az.gap 331°
Corr. -0.314 1M/1stn Msd N.D.

01/11424
AUG 23 112900.0s 37.51S 179.30W 33km M=4.0
1.4 0.10 0.10 R
Rsd 0.5s 10ph/8stn Dmin 264km Az.gap 328°
Corr. -0.275 5M/4stn Msd 0.3

01/11426
AUG 23 120011.8s 37.32S 179.31W 33km M=3.9
2.0 0.20 0.13 R
Rsd 0.6s 4ph/2stn Dmin 325km Az.gap 343°
Corr. -0.273 1M/1stn Msd N.D.

01/11427
AUG 23 120428.6s 36.96S 179.22W 33km M=4.4
0.6 0.03 0.04 R
Rsd 0.2s 11ph/9stn Dmin 304km Az.gap 310°
Corr. -0.237 4M/2stn Msd 0.1

01/11428
AUG 23 120513.5s 36.99S 179.30W 33km M=4.3
0.2 0.02 0.01 R
Rsd 0.0s 5ph/3stn Dmin 296km Az.gap 344°
Corr. -0.485 3M/1stn Msd 0.1

01/11429
AUG 23 121911.6s 36.81S 179.08W 33km M=4.6
1.1 0.05 0.09 R
Rsd 0.4s 7ph/5stn Dmin 373km Az.gap 317°
Corr. -0.376 7M/4stn Msd 0.3

01/11430
AUG 23 122443.9s 36.85S 179.01W 33km M=4.1
1.5 0.11 0.10 R
Rsd 0.4s 5ph/4stn Dmin 377km Az.gap 319°
Corr. 0.065 2M/1stn Msd 0.1

01/11431
AUG 23 134806.0s 36.87S 179.14W 33km M=4.0
0.1 0.01 0.01 R
Rsd 0.0s 5ph/4stn Dmin 316km Az.gap 324°
Corr. -0.016 1M/1stn Msd N.D.

01/11432
AUG 23 135439.8s 37.01S 179.35W 33km M=3.7
1.2 0.08 0.09 R
Rsd 0.4s 5ph/4stn Dmin 342km Az.gap 319°
Corr. -0.046 1M/1stn Msd N.D.

01/11438
AUG 23 213017.4s 37.03S 179.21W 33km M=4.4
0.7 0.05 0.05 R
Rsd 0.3s 6ph/4stn Dmin 300km Az.gap 323°
Corr. -0.304 3M/1stn Msd 0.2

01/11440
AUG 23 220628.9s 37.29S 179.38W 33km M=4.4
1.0 0.09 0.06 R
Rsd 0.3s 12ph/9stn Dmin 271km Az.gap 315°
Corr. 0.055 5M/3stn Msd 0.2

01/11442
AUG 23 225852.7s 36.95S 179.29W 33km M=4.3
0.9 0.03 0.07 R
Rsd 0.3s 8ph/6stn Dmin 349km Az.gap 314°
Corr. -0.108 2M/2stn Msd 0.1

01/11444
AUG 23 233857.6s 37.08S 179.24W 33km M=4.3
0.8 0.05 0.06 R
Rsd 0.3s 7ph/5stn Dmin 294km Az.gap 323°
Corr. -0.177 6M/4stn Msd 0.1

01/11445
AUG 23 234925.6s 37.21S 179.05W 33km M=4.1
0.8 0.08 0.06 R
Rsd 0.3s 5ph/4stn Dmin 351km Az.gap 341°
Corr. -0.526 2M/2stn Msd 0.1

01/11447
AUG 24 002355.4s 37.10S 179.04W 33km M=4.5
1.6 0.14 0.12 R
Rsd 0.5s 8ph/7stn Dmin 359km Az.gap 333°
Corr. -0.409 5M/2stn Msd 0.1

01/11452
AUG 24 014056.7s 36.44S 177.62W 33km M=4.7
1.1 0.08 0.09 R
Rsd 0.3s 6ph/4stn Dmin 509km Az.gap 342°
Corr. -0.693 4M/2stn Msd 0.2

01/11453
AUG 24 014652.0s 36.49S 178.77W 33km M=4.8
0.6 0.04 0.04 R
Rsd 0.2s 8ph/6stn Dmin 368km Az.gap 319°
Corr. -0.056 10M/4stn Msd 0.1

01/11454
AUG 24 020731.4s 37.25S 179.26W 33km M=4.0
0.7 0.05 0.05 R
Rsd 0.2s 6ph/4stn Dmin 333km Az.gap 312°
Corr. -0.288 3M/2stn Msd 0.0

01/11456
AUG 24 030328.7s 36.70S 178.97W 33km M=3.9
3.2 0.14 0.24 R
Rsd 0.7s 4ph/3stn Dmin 388km Az.gap 319°
Corr. -0.523 2M/2stn Msd 0.1

01/11459
AUG 24 051526.8s 40.33S 176.31E 65km M=3.7
0.2 0.01 0.01 3
Rsd 0.2s 43ph/33stn Dmin 39km Az.gap 133°
Corr. -0.414 10M/7stn Msd 0.2 8↑ 2↓

01/11461
AUG 24 054551.1s 38.36S 176.31E 142km M=3.7
2.6 0.14 0.05 16
Rsd 0.2s 7ph/7stn Dmin 71km Az.gap 218°
Corr. 0.874 4M/4stn Msd 0.3

01/11462
AUG 24 055038.4s 37.11S 179.39W 33km M=4.9
0.7 0.05 0.04 R
Rsd 0.2s 14ph/10stn Dmin 282km Az.gap 308°
Corr. -0.013 20M/11stn Msd 0.2

01/11464
AUG 24 062047.4s 37.15S 179.37W 33km M=4.2
0.8 0.07 0.06 R
Rsd 0.3s 7ph/5stn Dmin 281km Az.gap 340°
Corr. -0.500 3M/2stn Msd 0.0

01/11465
AUG 24 064835.8s 37.37S 179.28W 33km M=4.2
1.7 0.10 0.12 R
Rsd 0.6s 6ph/5stn Dmin 273km Az.gap 312°
Corr. 0.200 3M/1stn Msd 0.1

01/11471
AUG 24 072426.5s 36.90S 179.16W 33km M=3.9
1.7 0.19 0.13 R
Rsd 0.4s 4ph/3stn Dmin 312km Az.gap 345°
Corr. -0.540 1M/1stn Msd N.D.

01/11473
AUG 24 080217.1s 36.94S 179.38W 33km M=4.1
1.2 0.07 0.09 R
Rsd 0.4s 5ph/4stn Dmin 343km Az.gap 317°
Corr. 0.119 2M/1stn Msd 0.1

01/11474
AUG 24 081642.3s 36.74S 179.02W 33km M=4.5
0.7 0.03 0.05 R
Rsd 0.3s 9ph/6stn Dmin 382km Az.gap 316°
Corr. -0.174 4M/2stn Msd 0.1

01/11475
AUG 24 084152.2s 36.73S 179.06W 33km M=3.9
0.5 0.05 0.04 R
Rsd 0.2s 5ph/3stn Dmin 379km Az.gap 324°
Corr. -0.492 1M/1stn Msd N.D.

01/11476
AUG 24 090153.0s 36.75S 179.06W 33km M=3.7
0.0 0.00 0.00 R
Rsd 0.0s 3ph/2stn Dmin 377km Az.gap 345°
Corr. -0.633 1M/1stn Msd N.D.

01/11477
AUG 24 092909.2s 37.24S 179.16W 33km M=4.1
0.9 0.06 0.06 R
Rsd 0.3s 9ph/7stn Dmin 291km Az.gap 314°
Corr. -0.023 7M/5stn Msd 0.2

01/11478
AUG 24 101546.9s 36.77S 179.02W 33km M=3.9
0.6 0.08 0.03 R
Rsd 0.1s 4ph/2stn Dmin 380km Az.gap 345°
Corr. -0.647 1M/1stn Msd N.D.

01/11479
AUG 24 101734.1s 37.24S 178.87W 33km M=4.5
2.6 0.20 0.16 R
Rsd 0.7s 4ph/3stn Dmin 362km Az.gap 331°
Corr. -0.213 4M/2stn Msd 0.4

01/11480
AUG 24 102110.8s 36.58S 179.01W 33km M=4.7
0.7 0.05 0.05 R
Rsd 0.2s 14ph/10stn Dmin 345km Az.gap 320°
Corr. -0.047 11M/6stn Msd 0.2

01/11481
AUG 24 102906.3s 36.70S 178.85W 33km M=4.4
1.3 0.06 0.10 R
Rsd 0.4s 9ph/7stn Dmin 397km Az.gap 322°
Corr. -0.385 5M/3stn Msd 0.2

01/11482
AUG 24 110435.4s 37.20S 179.08W 33km M=5.0
0.8 0.07 0.06 R
Rsd 0.3s 20ph/16stn Dmin 298km Az.gap 309°
Corr. -0.086 22M/11stn Msd 0.2

01/11483
AUG 24 112843.9s 37.03S 179.23W 33km M=4.0
0.6 0.03 0.05 R
Rsd 0.2s 8ph/6stn Dmin 350km Az.gap 319°
Corr. -0.286 1M/1stn Msd N.D.

01/11485
AUG 24 115944.5s 36.77S 178.83W 33km M=4.1
1.4 0.15 0.10 R
Rsd 0.5s 5ph/3stn Dmin 395km Az.gap 341°
Corr. -0.474 1M/1stn Msd N.D.

01/11487
AUG 24 123509.1s 36.99S 179.18W 33km M=3.9
1.1 0.11 0.09 R
Rsd 0.3s 4ph/2stn Dmin 357km Az.gap 344°
Corr. -0.624 1M/1stn Msd N.D.

01/11488
AUG 24 130357.7s 37.09S 179.19W 33km M=4.2
0.8 0.07 0.06 R
Rsd 0.2s 7ph/5stn Dmin 297km Az.gap 343°
Corr. -0.502 2M/2stn Msd 0.1

01/11489
AUG 24 131923.4s 37.31S 179.01W 33km M=3.9
1.8 0.16 0.11 R
Rsd 0.7s 9ph/7stn Dmin 297km Az.gap 333°
Corr. -0.201 4M/3stn Msd 0.3

01/11490
AUG 24 133339.4s 37.18S 179.23W 33km M=3.9
0.4 0.03 0.03 R
Rsd 0.1s 5ph/3stn Dmin 340km Az.gap 338°
Corr. -0.469 1M/1stn Msd N.D.

01/11495
AUG 24 144519.6s 36.84S 179.16W 33km M=4.5
0.8 0.05 0.06 R
Rsd 0.3s 11ph/9stn Dmin 366km Az.gap 313°
Corr. -0.208 10M/9stn Msd 0.3

01/11497
AUG 24 161456.7s 37.27S 179.33W 33km M=3.9
1.1 0.10 0.08 R
Rsd 0.4s 5ph/3stn Dmin 327km Az.gap 341°
Corr. -0.449 1M/1stn Msd N.D.

01/11500
AUG 24 193410.7s 36.74S 179.16W 33km M=4.5
0.8 0.05 0.06 R
Rsd 0.2s 20ph/17stn Dmin 324km Az.gap 311°
Corr. -0.081 18M/14stn Msd 0.2

01/11501
AUG 24 193648.2s 36.65S 178.28W 33km M=4.3
1.4 0.07 0.09 R
Rsd 0.3s 7ph/6stn Dmin 443km Az.gap 339°
Corr. -0.487 6M/5stn Msd 0.2

01/11502
AUG 24 194500.4s 36.85S 179.10W 33km M=4.0
0.4 0.03 0.03 R
Rsd 0.1s 6ph/4stn Dmin 338km Az.gap 333°
Corr. -0.473 2M/2stn Msd 0.0

01/11503
AUG 24 195139.0s 36.69S 179.15W 33km M=4.5
0.5 0.03 0.04 R
Rsd 0.2s 19ph/15stn Dmin 328km Az.gap 313°
Corr. -0.281 16M/14stn Msd 0.2

01/11504
AUG 24 200046.5s 36.97S 178.97W 33km M=4.4
0.7 0.07 0.06 R
Rsd 0.2s 8ph/6stn Dmin 321km Az.gap 341°
Corr. -0.573 5M/3stn Msd 0.1

01/11505
AUG 24 200932.2s 37.50S 178.80W 33km M=4.4
2.4 0.15 0.17 R
Rsd 0.8s 10ph/8stn Dmin 352km Az.gap 324°
Corr. -0.246 11M/7stn Msd 0.2

01/11508
AUG 24 203901.6s 38.22S 176.19E 137km M=3.5
0.8 0.04 0.04 8
Rsd 0.4s 8ph/6stn Dmin 81km Az.gap 141°
Corr. 0.504 4M/4stn Msd 0.2 1↓

01/11509
AUG 24 204712.5s 36.16S 178.24W 33km M=4.9
0.8 0.11 0.08 R
Rsd 0.2s 6ph/4stn Dmin 428km Az.gap 348°
Corr. -0.739 3M/1stn Msd 0.2

01/11510
AUG 24 211632.0s 36.73S 179.18W 33km M=5.2
0.7 0.04 0.05 R
Rsd 0.2s 22ph/18stn Dmin 323km Az.gap 311°
Corr. -0.169 26M/13stn Msd 0.2

01/11511
AUG 24 211840.8s 36.74S 179.14W 33km M=4.8
0.6 0.04 0.04 R
Rsd 0.2s 16ph/13stn Dmin 325km Az.gap 311°
Corr. -0.071 10M/7stn Msd 0.3
Multiple event.

01/11512
AUG 24 211848.0s 36.31S 178.86W 33km M=5.1
2.2 0.16 0.17 R
Rsd 0.6s 12ph/9stn Dmin 375km Az.gap 318°
Corr. -0.519 15M/9stn Msd 0.2
The biggest of several here. The rest are not reliably locatable.

01/11513
AUG 24 211955.9s 37.66S 179.23W 33km M=4.7
2.3 0.22 0.15 R
Rsd 0.7s 12ph/10stn Dmin 262km Az.gap 321°
Corr. -0.400 13M/7stn Msd 0.1

01/11514
AUG 24 212243.7s 37.05S 179.20W 33km M=4.8
0.7 0.08 0.06 R
Rsd 0.2s 10ph/8stn Dmin 299km Az.gap 335°
Corr. -0.600 13M/7stn Msd 0.2

01/11515
AUG 24 212438.4s 36.97S 179.10W 33km M=4.4
0.8 0.09 0.06 R
Rsd 0.2s 10ph/8stn Dmin 311km Az.gap 335°
Corr. -0.565 17M/13stn Msd 0.2

01/11516
AUG 24 213344.1s 37.51S 177.79W 33km M=5.3
2.9 0.20 0.22 R
Rsd 0.5s 17ph/14stn Dmin 386km Az.gap 311°
Corr. -0.281 21M/11stn Msd 0.2

01/11517
AUG 24 213712.2s 36.57S 178.81W 33km M=4.7
5.1 0.18 0.39 R
Rsd 0.8s 5ph/4stn Dmin 360km Az.gap 325°
Corr. -0.174 2M/2stn Msd 0.1

01/11518
AUG 24 214040.2s 36.80S 179.07W 33km M=5.0
0.7 0.04 0.05 R
Rsd 0.2s 22ph/17stn Dmin 325km Az.gap 312°
Corr. -0.216 17M/9stn Msd 0.2

01/11519
AUG 24 214359.3s 36.84S 179.31W 33km M=4.8
0.8 0.03 0.06 R
Rsd 0.2s 10ph/9stn Dmin 306km Az.gap 311°
Corr. 0.522 8M/7stn Msd 0.2

01/11520
AUG 24 214823.6s 36.88S 179.14W 33km M=4.4
1.1 0.06 0.08 R
Rsd 0.4s 9ph/7stn Dmin 365km Az.gap 320°
Corr. -0.154 4M/2stn Msd 0.1

01/11521
AUG 24 215518.6s 36.81S 179.07W 33km M=4.3
0.0 0.00 0.00 R
Rsd 0.0s 3ph/3stn Dmin 374km Az.gap 345°
Corr. -0.512 1M/1stn Msd N.D.

01/11522
AUG 24 220741.2s 36.91S 179.43W 33km M=4.0
2.7 0.10 0.20 R
Rsd 0.6s 5ph/5stn Dmin 340km Az.gap 319°
Corr. 0.436 1M/1stn Msd N.D.

01/11523
AUG 24 221242.0s 36.73S 179.07W 33km M=3.8
0.1 0.01 0.01 R
Rsd 0.0s 5ph/4stn Dmin 330km Az.gap 323°
Corr. 0.163 1M/1stn Msd N.D.

01/11525
AUG 24 223657.9s 36.65S 179.10W 33km M=4.3
0.1 0.01 0.01 R
Rsd 0.0s 4ph/3stn Dmin 380km Az.gap 323°
Corr. 0.087 2M/2stn Msd 0.0

01/11526
AUG 24 224358.8s 37.04S 179.10W 33km M=4.0
0.0 0.00 0.00 R
Rsd 0.0s 3ph/3stn Dmin 358km Az.gap 343°
Corr. -0.589 1M/1stn Msd N.D.

01/11527
AUG 24 225213.7s 36.66S 179.26W 33km M=4.7
0.8 0.04 0.05 R
Rsd 0.3s 16ph/12stn Dmin 323km Az.gap 312°
Corr. 0.327 10M/5stn Msd 0.2

01/11530
AUG 24 231718.4s 36.86S 179.06W 33km M=3.9
0.7 0.07 0.06 R
Rsd 0.2s 4ph/2stn Dmin 372km Az.gap 345°
Corr. -0.527 1M/1stn Msd N.D.

01/11531
AUG 24 232442.0s 36.82S 179.29W 33km M=4.0
1.8 0.05 0.13 R
Rsd 0.4s 5ph/4stn Dmin 356km Az.gap 317°
Corr. 0.510 1M/1stn Msd N.D.

01/11532
AUG 24 233448.9s 37.04S 179.42W 3km M=4.1
0.5 0.05 0.04 R
Rsd 0.2s 6ph/4stn Dmin 335km Az.gap 339°
Corr. -0.406 2M/2stn Msd 0.1

01/11533
AUG 24 235907.8s 36.43S 179.13W 33km M=4.2
0.9 0.04 0.07 R
Rsd 0.3s 6ph/4stn Dmin 390km Az.gap 319°
Corr. 0.060 2M/2stn Msd 0.2

01/11534
AUG 25 004420.1s 37.44S 176.57E 160km M=3.5
0.5 0.04 0.03 4
Rsd 0.2s 10ph/7stn Dmin 103km Az.gap 296°
Corr. -0.225 5M/5stn Msd 0.2 1↑

01/11535
AUG 25 011204.9s 36.76S 179.29W 33km M=4.9
0.5 0.03 0.03 R
Rsd 0.2s 16ph/12stn Dmin 313km Az.gap 310°
Corr. 0.263 13M/7stn Msd 0.1 1↑

01/11536
AUG 25 011912.6s 36.94S 179.19W 33km M=4.2
0.9 0.04 0.07 R
Rsd 0.3s 9ph/7stn Dmin 358km Az.gap 319°
Corr. -0.277 4M/2stn Msd 0.1

01/11537
AUG 25 012004.9s 37.39S 179.80W 33km M=4.0
1.0 0.05 0.07 R
Rsd 0.1s 5ph/5stn Dmin 288km Az.gap 321°
Corr. -0.933 4M/2stn Msd 0.2

01/11540
AUG 25 023609.4s 36.90S 179.24W 33km M=3.8
1.1 0.05 0.08 R
Rsd 0.3s 7ph/5stn Dmin 355km Az.gap 319°
Corr. 0.346 1M/1stn Msd N.D.

01/11541
AUG 25 025126.2s 36.81S 179.24W 33km M=4.2
1.1 0.05 0.08 R
Rsd 0.4s 7ph/5stn Dmin 360km Az.gap 318°
Corr. 0.013 3M/2stn Msd 0.1

01/11542
AUG 25 025553.4s 36.87S 179.22W 33km M=4.2
1.4 0.05 0.10 R
Rsd 0.5s 10ph/8stn Dmin 359km Az.gap 312°
Corr. -0.105 5M/4stn Msd 0.1

01/11543
AUG 25 025728.3s 37.32S 179.94W 33km M=3.6
3.1 0.08 0.24 R
Rsd 0.5s 5ph/5stn Dmin 280km Az.gap 301°
Corr. 0.453 2M/2stn Msd 0.0

01/11545
AUG 25 032714.2s 36.80S 179.41W 33km M=4.1
0.8 0.03 0.05 R
Rsd 0.2s 9ph/7stn Dmin 348km Az.gap 316°
Corr. 0.408 2M/2stn Msd 0.1

01/11549
AUG 25 041514.4s 36.98S 179.20W 33km M=3.9
0.1 0.01 0.01 R
Rsd 0.0s 4ph/2stn Dmin 356km Az.gap 345°
Corr. -0.557 1M/1stn Msd N.D.

01/11551
AUG 25 050615.2s 37.02S 179.20W 33km M=3.7
1.1 0.06 0.08 R
Rsd 0.3s 7ph/5stn Dmin 353km Az.gap 319°
Corr. -0.194 1M/1stn Msd N.D.

01/11552
AUG 25 051534.9s 36.89S 179.13W 33km M=4.1
0.6 0.05 0.04 R
Rsd 0.2s 5ph/4stn Dmin 314km Az.gap 323°
Corr. -0.014 3M/1stn Msd 0.1

01/11556
AUG 25 064001.0s 36.78S 179.36W 33km M=4.5
0.4 0.02 0.03 R
Rsd 0.1s 16ph/13stn Dmin 307km Az.gap 310°
Corr. 0.040 11M/8stn Msd 0.2 1↑ 1↓

01/11557
AUG 25 064727.0s 36.85S 179.40W 33km M=4.7
0.8 0.04 0.05 R
Rsd 0.3s 20ph/16stn Dmin 299km Az.gap 310°
Corr. 0.321 12M/8stn Msd 0.2

01/11558
AUG 25 065125.8s 36.78S 179.21W 33km M=4.2
1.0 0.05 0.07 R
Rsd 0.4s 9ph/7stn Dmin 317km Az.gap 319°
Corr. -0.148 3M/1stn Msd 0.1

01/11560
AUG 25 075037.2s 36.82S 179.36W 33km M=4.1
1.0 0.04 0.07 R
Rsd 0.4s 9ph/6stn Dmin 351km Az.gap 309°
Corr. 0.182 6M/4stn Msd 0.3

01/11561
AUG 25 075104.8s 36.30S 178.08W 33km M=4.3
0.2 0.00 0.01 R
Rsd 0.0s 4ph/3stn Dmin 479km Az.gap 327°
Corr. -0.004 4M/2stn Msd 0.2

01/11563
AUG 25 084706.3s 36.87S 179.42W 33km M=4.0
1.2 0.06 0.08 R
Rsd 0.5s 10ph/7stn Dmin 343km Az.gap 316°
Corr. -0.078 2M/2stn Msd 0.0

01/11567
AUG 25 115829.7s 36.85S 179.42W 33km M=4.2
0.7 0.04 0.05 R
Rsd 0.3s 10ph/7stn Dmin 344km Az.gap 315°
Corr. 0.315 3M/3stn Msd 0.1

01/11568
AUG 25 120403.1s 36.61S 179.16W 33km M=4.0
1.1 0.06 0.07 R
Rsd 0.4s 8ph/6stn Dmin 377km Az.gap 318°
Corr. 0.154 1M/1stn Msd N.D.

01/11569
AUG 25 121932.0s 37.15S 179.16W 33km M=4.4
1.3 0.11 0.10 R
Rsd 0.3s 9ph/7stn Dmin 296km Az.gap 336°
Corr. -0.312 11M/9stn Msd 0.2

01/11570
AUG 25 123027.1s 37.30S 179.26W 33km M=4.3
0.4 0.03 0.03 R
Rsd 0.2s 7ph/5stn Dmin 330km Az.gap 337°
Corr. -0.150 5M/5stn Msd 0.2

01/11571
AUG 25 123029.3s 36.80S 178.60W 33km M=4.5
0.3 0.04 0.03 R
Rsd 0.1s 4ph/2stn Dmin 410km Az.gap 346°
Corr. -0.741 4M/4stn Msd 0.1

01/11572
AUG 25 142808.1s 36.98S 179.35W 33km M=4.1
1.2 0.06 0.08 R
Rsd 0.5s 11ph/7stn Dmin 344km Az.gap 311°
Corr. 0.215 3M/3stn Msd 0.4

01/11573
AUG 25 143038.2s 37.17S 179.24W 33km M=4.0
0.5 0.04 0.04 R
Rsd 0.2s 7ph/5stn Dmin 340km Az.gap 336°
Corr. -0.446 2M/2stn Msd 0.2

01/11576
AUG 25 150042.7s 37.14S 179.01W 33km M=4.4
1.1 0.04 0.09 R
Rsd 0.4s 9ph/8stn Dmin 307km Az.gap 313°
Corr. 0.000 1M/1stn Msd N.D.

01/11583
AUG 25 190327.7s 37.08S 179.14W 33km M=3.9
0.6 0.04 0.04 R
Rsd 0.2s 4ph/3stn Dmin 353km Az.gap 337°
Corr. -0.387 1M/1stn Msd N.D.

01/11584
AUG 25 200130.8s 36.87S 179.09W 33km M=3.9
0.5 0.06 0.03 R
Rsd 0.1s 4ph/3stn Dmin 369km Az.gap 345°
Corr. -0.419 1M/1stn Msd N.D.

01/11585
AUG 25 205100.8s 36.63S 179.16W 33km M=4.2
1.1 0.06 0.07 R
Rsd 0.4s 10ph/7stn Dmin 376km Az.gap 312°
Corr. 0.122 4M/4stn Msd 0.4

01/11587
AUG 25 213402.4s 36.85S 179.32W 33km M=4.7
0.8 0.04 0.05 R
Rsd 0.3s 16ph/13stn Dmin 304km Az.gap 309°
Corr. 0.472 14M/10stn Msd 0.2

01/11591
AUG 25 235111.2s 36.73S 178.70W 33km M=4.5
0.5 0.06 0.03 R
Rsd 0.1s 10ph/8stn Dmin 356km Az.gap 337°
Corr. -0.459 4M/4stn Msd 0.1

01/11592
AUG 26 001706.7s 36.66S 179.20W 33km M=4.4
0.8 0.04 0.06 R
Rsd 0.3s 10ph/8stn Dmin 371km Az.gap 313°
Corr. 0.124 3M/3stn Msd 0.3

01/11593
AUG 26 002921.4s 37.35S 177.26E 5km M=3.6
1.1 0.03 0.09 R
Rsd 0.5s 12ph/10stn Dmin 20km Az.gap 251°
Corr. 0.564 9M/7stn Msd 0.3

01/11597
AUG 26 010923.3s 36.53S 179.25W 33km M=4.8
1.0 0.06 0.06 R
Rsd 0.4s 13ph/10stn Dmin 336km Az.gap 312°
Corr. -0.059 13M/7stn Msd 0.2

01/11598
AUG 26 011618.6s 36.96S 179.34W 33km M=4.5
0.8 0.05 0.05 R
Rsd 0.2s 10ph/8stn Dmin 295km Az.gap 309°
Corr. -0.045 8M/8stn Msd 0.2

01/11599
AUG 26 012108.4s 36.86S 179.26W 33km M=4.0
1.2 0.05 0.09 R
Rsd 0.3s 7ph/6stn Dmin 308km Az.gap 311°
Corr. -0.429 2M/2stn Msd 0.1

01/11600
AUG 26 014057.9s 41.91S 173.16E 78km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 31ph/22stn Dmin 20km Az.gap 91°
Corr. -0.336 5M/5stn Msd 0.2 2↑ 6↓

01/11604
AUG 26 034032.5s 37.04S 179.03W 33km M=4.1
2.8 0.12 0.19 R
Rsd 0.3s 5ph/4stn Dmin 363km Az.gap 325°
Corr. 0.483 2M/2stn Msd 0.1

01/11610
AUG 26 061210.8s 37.10S 179.39W 33km M=4.1
0.9 0.04 0.07 R
Rsd 0.3s 7ph/5stn Dmin 334km Az.gap 316°
Corr. 0.046 4M/2stn Msd 0.2 1↓

01/11611
AUG 26 061459.1s 36.61S 179.01W 33km M=4.4
0.9 0.05 0.06 R
Rsd 0.3s 12ph/8stn Dmin 389km Az.gap 317°
Corr. 0.096 3M/3stn Msd 0.2

01/11612
AUG 26 075556.6s 36.94S 179.28W 33km M=3.6
0.1 0.01 0.01 R
Rsd 0.0s 4ph/3stn Dmin 351km Az.gap 320°
Corr. -0.112 1M/1stn Msd N.D.

01/11613
AUG 26 081444.1s 36.52S 179.20W 33km M=4.6
0.6 0.03 0.04 R
Rsd 0.1s 22ph/17stn Dmin 337km Az.gap 314°
Corr. 0.582 22M/16stn Msd 0.2 1↓

01/11619
AUG 26 093906.3s 36.77S 179.13W 33km M=4.1
1.1 0.10 0.08 R
Rsd 0.3s 4ph/3stn Dmin 371km Az.gap 339°
Corr. -0.382 2M/2stn Msd 0.0

01/11620
AUG 26 095007.2s 37.29S 179.05W 33km M=4.1
0.5 0.04 0.03 R
Rsd 0.1s 6ph/4stn Dmin 296km Az.gap 337°
Corr. -0.037 1M/1stn Msd N.D.

01/11622
AUG 26 101251.3s 36.93S 178.97W 33km M=4.2
0.4 0.03 0.02 R
Rsd 0.1s 6ph/5stn Dmin 324km Az.gap 338°
Corr. -0.256 2M/2stn Msd 0.1

01/11624
AUG 26 121540.3s 36.94S 179.04W 33km M=4.2
0.6 0.05 0.05 R
Rsd 0.2s 5ph/4stn Dmin 370km Az.gap 338°
Corr. -0.307 1M/1stn Msd N.D.

01/11627
AUG 26 131312.7s 36.94S 178.97W 33km M=3.9
0.7 0.06 0.06 R
Rsd 0.2s 5ph/3stn Dmin 375km Az.gap 338°
Corr. -0.635 1M/1stn Msd N.D.

01/11630
AUG 26 133132.1s 36.63S 179.22W 33km M=4.3
0.9 0.04 0.06 R
Rsd 0.3s 13ph/9stn Dmin 371km Az.gap 313°
Corr. 0.287 2M/2stn Msd 0.0

01/11633
AUG 26 141718.8s 37.33S 179.11W 33km M=3.8
1.2 0.09 0.08 R
Rsd 0.4s 5ph/4stn Dmin 339km Az.gap 330°
Corr. -0.292 1M/1stn Msd N.D.

01/11636
AUG 26 151352.1s 47.31S 165.26E 33km M=3.7
0.4 0.02 0.03 R
Rsd 0.2s 14ph/9stn Dmin 224km Az.gap 318°
Corr. -0.058 7M/7stn Msd 0.2 1↓

01/11644
AUG 26 191840.8s 47.35S 165.30E 33km M=4.1
0.6 0.03 0.04 R
Rsd 0.2s 13ph/8stn Dmin 221km Az.gap 318°
Corr. -0.138 15M/8stn Msd 0.2 1↑

01/11647
AUG 26 201754.4s 37.06S 179.15W 33km M=4.5
0.3 0.03 0.02 R
Rsd 0.1s 7ph/5stn Dmin 302km Az.gap 344°
Corr. -0.353 2M/2stn Msd 0.0

01/11648
AUG 26 202848.1s 36.48S 179.17W 33km M=3.7
0.1 0.01 0.01 R
Rsd 0.0s 4ph/3stn Dmin 342km Az.gap 346°
Corr. -0.314 1M/1stn Msd N.D.

01/11649
AUG 26 204317.0s 37.08S 179.29W 33km M=3.8
0.2 0.02 0.01 R
Rsd 0.0s 4ph/3stn Dmin 290km Az.gap 343°
Corr. -0.170 1M/1stn Msd N.D.

01/11656
AUG 27 024629.4s 36.75S 179.38W 33km M=4.2
0.7 0.05 0.04 R
Rsd 0.3s 9ph/6stn Dmin 353km Az.gap 311°
Corr. -0.004 11M/9stn Msd 0.3

01/11659
AUG 27 044717.3s 40.01S 174.47E 102km M=3.7
0.2 0.01 0.01 3
Rsd 0.3s 46ph/35stn Dmin 46km Az.gap 87°
Corr. -0.181 9M/8stn Msd 0.3 6↑ 2↓

01/11663
AUG 27 060620.1s 40.15S 174.88E 27km M=3.6
0.2 0.01 0.02 3
Rsd 0.4s 42ph/33stn Dmin 39km Az.gap 74°
Corr. -0.184 10M/6stn Msd 0.1 3↑ 1↓

01/11664
AUG 27 072705.8s 45.07S 167.49E 113km M=3.8
0.4 0.02 0.02 3
Rsd 0.3s 16ph/10stn Dmin 51km Az.gap 187°
Corr. -0.266 8M/5stn Msd 0.1 1↑

01/11673
AUG 27 091856.3s 36.91S 178.89W 33km M=4.2
0.4 0.04 0.04 R
Rsd 0.1s 11ph/8stn Dmin 384km Az.gap 340°
Corr. -0.664 3M/2stn Msd 0.1

01/11674
AUG 27 092947.0s 37.19S 179.05W 33km M=3.8
1.8 0.14 0.16 R
Rsd 0.5s 8ph/7stn Dmin 359km Az.gap 332°
Corr. -0.658 3M/3stn Msd 0.2

01/11677
AUG 27 102144.6s 37.06S 177.39E 174km M=3.7
0.4 0.05 0.02 2
Rsd 0.1s 7ph/5stn Dmin 135km Az.gap 318°
Corr. 0.118 1M/1stn Msd N.D. 1↓

01/11679
AUG 27 112835.6s 37.13S 176.83E 228km M=3.9
0.6 0.05 0.05 5
Rsd 0.2s 11ph/9stn Dmin 127km Az.gap 287°
Corr. 0.044 3M/3stn Msd 0.1

01/11683
AUG 27 125035.8s 36.55S 179.41W 33km M=5.4
0.6 0.05 0.04 R
Rsd 0.3s 33ph/26stn Dmin 322km Az.gap 312°
Corr. 0.176 27M/15stn Msd 0.2 1↑

01/11684
AUG 27 140616.8s 36.97S 179.41W 33km M=4.0
1.6 0.11 0.13 R
Rsd 0.4s 7ph/6stn Dmin 339km Az.gap 337°
Corr. -0.563 4M/4stn Msd 0.2

01/11685
AUG 27 142923.0s 36.62S 179.24W 33km M=4.0
2.3 0.11 0.18 R
Rsd 0.6s 5ph/4stn Dmin 371km Az.gap 313°
Corr. -0.366 3M/3stn Msd 0.2

01/11687
AUG 27 144111.8s 36.88S 179.47W 33km M=4.2
0.9 0.05 0.05 R
Rsd 0.4s 11ph/7stn Dmin 339km Az.gap 309°
Corr. 0.193 2M/2stn Msd 0.1

01/11688
AUG 27 145635.0s 36.76S 179.49W 33km M=5.1
0.5 0.03 0.03 R
Rsd 0.2s 29ph/25stn Dmin 300km Az.gap 309°
Corr. 0.152 27M/14stn Msd 0.2 2↑ 1↓

01/11689
AUG 27 145950.9s 36.18S 179.58W 33km M=3.9
1.6 0.08 0.13 R
Rsd 0.4s 6ph/5stn Dmin 374km Az.gap 317°
Corr. -0.353 4M/4stn Msd 0.3

01/11690
AUG 27 151555.0s 36.47S 179.40W 33km M=3.9
1.9 0.07 0.14 R
Rsd 0.4s 6ph/4stn Dmin 367km Az.gap 321°
Corr. -0.391 3M/3stn Msd 0.3

01/11691
AUG 27 152819.7s 39.63S 174.41E 204km M=3.9
0.3 0.01 0.02 3
Rsd 0.2s 35ph/27stn Dmin 38km Az.gap 92°
Corr. -0.237 6M/6stn Msd 0.3 1↑

01/11693
AUG 27 153527.6s 36.92S 178.66W 33km M=4.0
0.6 0.06 0.05 R
Rsd 0.2s 7ph/5stn Dmin 402km Az.gap 341°
Corr. -0.670 2M/2stn Msd 0.4

01/11694
AUG 27 154152.9s 38.03S 175.96E 302km M=3.8
0.3 0.02 0.02 2
Rsd 0.1s 16ph/14stn Dmin 52km Az.gap 154°
Corr. -0.324 4M/4stn Msd 0.2

01/11695
AUG 27 170821.7s 36.55S 179.67W 33km M=3.8
1.0 0.12 0.07 R
Rsd 0.2s 6ph/5stn Dmin 342km Az.gap 344°
Corr. -0.564 2M/2stn Msd 0.2

01/11697
AUG 27 171254.0s 36.94S 179.07W 33km M=4.5
0.3 0.02 0.03 R
Rsd 0.1s 6ph/6stn Dmin 368km Az.gap 338°
Corr. -0.753 6M/5stn Msd 0.3

01/11701
AUG 27 184941.3s 36.94S 179.27W 33km M=3.9
1.5 0.06 0.12 R
Rsd 0.4s 6ph/5stn Dmin 351km Az.gap 311°
Corr. -0.222 4M/4stn Msd 0.1

01/11703
AUG 27 194816.4s 36.87S 179.04W 33km M=3.8
0.5 0.07 0.04 R
Rsd 0.1s 4ph/3stn Dmin 374km Az.gap 345°
Corr. -0.405 1M/1stn Msd N.D.

01/11704
AUG 27 194950.0s 37.24S 178.98W 33km M=4.2
0.7 0.09 0.03 R
Rsd 0.1s 5ph/4stn Dmin 354km Az.gap 344°
Corr. -0.186 2M/1stn Msd 0.1

01/11707
AUG 27 203826.5s 36.77S 179.23W 33km M=4.6
0.6 0.03 0.04 R
Rsd 0.2s 16ph/12stn Dmin 316km Az.gap 311°
Corr. 0.267 19M/13stn Msd 0.2

01/11711
AUG 27 234255.0s 37.09S 179.37W 33km M=4.7
0.4 0.02 0.03 R
Rsd 0.1s 14ph/11stn Dmin 284km Az.gap 308°
Corr. 0.079 10M/5stn Msd 0.2

01/11712
AUG 28 002838.3s 37.38S 179.35W 33km M=3.7
0.5 0.05 0.02 R
Rsd 0.1s 5ph/4stn Dmin 318km Az.gap 342°
Corr. 0.029 1M/1stn Msd N.D.

01/11714
AUG 28 004023.8s 37.18S 179.23W 33km M=4.2
0.3 0.02 0.02 R
Rsd 0.1s 5ph/4stn Dmin 340km Az.gap 338°
Corr. -0.256 3M/1stn Msd 0.1

01/11715
AUG 28 005719.5s 37.05S 179.89W 33km M=4.9
0.6 0.03 0.04 R
Rsd 0.2s 12ph/8stn Dmin 252km Az.gap 304°
Corr. 0.109 21M/11stn Msd 0.2 1↑

01/11719
AUG 28 025546.0s 36.90S 179.16W 33km M=3.9
1.2 0.17 0.08 R
Rsd 0.3s 5ph/3stn Dmin 362km Az.gap 345°
Corr. -0.629 1M/1stn Msd N.D.

01/11725
AUG 28 033310.2s 37.01S 179.38W 33km M=4.2
0.8 0.04 0.06 R
Rsd 0.3s 12ph/9stn Dmin 340km Az.gap 310°
Corr. 0.239 5M/3stn Msd 0.1

01/11727
AUG 28 034959.0s 37.03S 179.53W 33km M=4.2
0.9 0.05 0.06 R
Rsd 0.3s 9ph/5stn Dmin 278km Az.gap 314°
Corr. 0.028 4M/2stn Msd 0.2

01/11731
AUG 28 042716.9s 36.99S 177.07E 268km M=5.2
0.5 0.06 0.06 4
Rsd 0.2s 22ph/18stn Dmin 61km Az.gap 233°
Corr. 0.821 10M/5stn Msd 0.2 3↑ 1↓

01/11734
AUG 28 050256.3s 37.02S 179.18W 33km M=3.7
0.8 0.13 0.05 R
Rsd 0.2s 5ph/3stn Dmin 354km Az.gap 344°
Corr. -0.655 1M/1stn Msd N.D.

01/11735
AUG 28 074529.7s 36.75S 179.32W 33km M=4.4
0.6 0.04 0.04 R
Rsd 0.3s 16ph/11stn Dmin 312km Az.gap 312°
Corr. 0.126 11M/9stn Msd 0.1

01/11739
AUG 28 085318.7s 36.55S 179.40W 33km M=4.2
0.6 0.04 0.04 R
Rsd 0.2s 14ph/10stn Dmin 362km Az.gap 312°
Corr. 0.350 11M/9stn Msd 0.1

01/11740
AUG 28 085741.9s 36.69S 179.03W 33km M=3.9
1.2 0.10 0.11 R
Rsd 0.4s 5ph/4stn Dmin 383km Az.gap 339°
Corr. -0.463 3M/3stn Msd 0.2

01/11743
AUG 28 101125.7s 36.78S 179.07W 33km M=3.7
1.3 0.13 0.09 R
Rsd 0.4s 6ph/5stn Dmin 375km Az.gap 340°
Corr. -0.245 2M/2stn Msd 0.0

01/11749
AUG 28 124459.7s 36.70S 179.41W 33km M=4.4
0.5 0.03 0.03 R
Rsd 0.2s 16ph/10stn Dmin 310km Az.gap 311°
Corr. 0.306 11M/11stn Msd 0.3

01/11752
AUG 28 140920.6s 36.99S 179.01W 33km M=3.8
1.1 0.12 0.08 R
Rsd 0.4s 9ph/7stn Dmin 317km Az.gap 337°
Corr. -0.454 4M/4stn Msd 0.2

01/11757
AUG 28 160533.5s 36.77S 179.30W 33km M=4.5
0.7 0.04 0.05 R
Rsd 0.3s 15ph/11stn Dmin 312km Az.gap 311°
Corr. 0.127 16M/14stn Msd 0.2

01/11758
AUG 28 160859.6s 36.96S 179.17W 33km M=4.2
0.4 0.04 0.03 R
Rsd 0.1s 10ph/9stn Dmin 359km Az.gap 335°
Corr. -0.477 7M/6stn Msd 0.2

01/11759
AUG 28 162346.4s 37.43S 178.80W 33km M=3.8
0.6 0.11 0.04 R
Rsd 0.1s 4ph/3stn Dmin 372km Az.gap 352°
Corr. -0.378 1M/1stn Msd N.D.

01/11761
AUG 28 164644.7s 40.48S 174.23E 81km M=3.7
0.2 0.01 0.01 3
Rsd 0.2s 42ph/32stn Dmin 44km Az.gap 92°
Corr. 0.266 10M/8stn Msd 0.3 5↑ 3↓

01/11768
AUG 28 211050.2s 37.36S 179.35W 33km M=3.8
0.8 0.11 0.05 R
Rsd 0.2s 6ph/4stn Dmin 268km Az.gap 343°
Corr. -0.443 1M/1stn Msd N.D.

01/11779
AUG 29 034825.1s 36.98S 179.10W 33km M=4.6
0.9 0.10 0.05 R
Rsd 0.2s 11ph/8stn Dmin 311km Az.gap 336°
Corr. -0.217 16M/10stn Msd 0.2

01/11780
AUG 29 035227.0s 36.91S 179.32W 33km M=4.1
2.2 0.40 0.21 R
Rsd 0.6s 7ph/5stn Dmin 301km Az.gap 347°
Corr. -0.755 2M/1stn Msd 0.0

01/11781
AUG 29 042606.4s 36.75S 179.26W 33km M=4.1
0.7 0.04 0.05 R
Rsd 0.3s 14ph/11stn Dmin 316km Az.gap 311°
Corr. 0.228 6M/5stn Msd 0.2

01/11782
AUG 29 042723.2s 36.77S 179.16W 33km M=3.6
1.1 0.08 0.08 R
Rsd 0.3s 5ph/4stn Dmin 322km Az.gap 320°
Corr. -0.317 3M/3stn Msd 0.1

01/11783
AUG 29 044831.5s 37.30S 178.91W 33km M=4.1
0.4 0.10 0.05 R
Rsd 0.1s 6ph/4stn Dmin 366km Az.gap 352°
Corr. -0.804 2M/1stn Msd 0.0

01/11789
AUG 29 080215.8s 36.88S 179.08W 33km M=3.7
2.4 0.26 0.17 R
Rsd 0.6s 4ph/3stn Dmin 370km Az.gap 345°
Corr. -0.562 1M/1stn Msd N.D.

01/11795
AUG 29 130408.9s 36.86S 179.55W 33km M=4.5
0.7 0.04 0.05 R
Rsd 0.3s 13ph/9stn Dmin 288km Az.gap 309°
Corr. 0.320 11M/8stn Msd 0.2

01/11796
AUG 29 130432.5s 36.50S 178.40W 33km M=4.3
0.1 R R R
Rsd 0.4s 8ph/8stn Dmin 393km Az.gap 318°
Corr. R 3M/3stn Msd 0.2

01/11797
AUG 29 135341.8s 36.46S 179.15W 33km M=4.5
0.9 0.05 0.07 R
Rsd 0.4s 14ph/11stn Dmin 345km Az.gap 314°
Corr. -0.134 13M/11stn Msd 0.2

01/11798
AUG 29 135456.7s 36.50S 179.09W 33km M=5.1
0.7 0.06 0.06 R
Rsd 0.2s 22ph/17stn Dmin 350km Az.gap 314°
Corr. -0.508 18M/9stn Msd 0.2

01/11799
AUG 29 140044.2s 36.50S 178.40W 33km M=4.6
0.2 R R R
Rsd 0.6s 10ph/10stn Dmin 443km Az.gap 318°
Corr. R 3M/3stn Msd 0.1

01/11800
AUG 29 142623.4s 36.39S 179.08W 33km M=4.1
0.6 0.04 0.04 R
Rsd 0.2s 11ph/9stn Dmin 355km Az.gap 315°
Corr. -0.156 4M/4stn Msd 0.3

01/11801
AUG 29 142800.5s 36.40S 179.18W 33km M=4.8
1.0 0.05 0.06 R
Rsd 0.3s 14ph/10stn Dmin 348km Az.gap 315°
Corr. 0.414 10M/5stn Msd 0.1

01/11802
AUG 29 143157.0s 37.30S 178.99W 33km M=4.0
0.6 0.06 0.04 R
Rsd 0.2s 10ph/7stn Dmin 300km Az.gap 330°
Corr. -0.204 6M/6stn Msd 0.3

01/11805
AUG 29 161456.1s 45.38S 166.98E 64km M=3.8
0.3 0.02 0.02 2
Rsd 0.1s 13ph/8stn Dmin 17km Az.gap 252°
Corr. -0.053 10M/6stn Msd 0.2 1↑ 4↓

01/11808
AUG 29 171612.4s 37.16S 179.32W 33km M=4.1
0.5 0.05 0.04 R
Rsd 0.2s 6ph/4stn Dmin 283km Az.gap 343°
Corr. -0.432 3M/1stn Msd 0.0

01/11810
AUG 29 171908.2s 36.98S 179.31W 33km M=4.2
0.6 0.05 0.04 R
Rsd 0.2s 12ph/8stn Dmin 296km Az.gap 312°
Corr. -0.071 6M/4stn Msd 0.3

01/11813
AUG 29 194008.9s 38.01S 176.35E 148km M=4.0
0.4 0.03 0.02 3
Rsd 0.1s 15ph/12stn Dmin 72km Az.gap 251°
Corr. -0.374 10M/8stn Msd 0.2 2↑ 1↓

01/11818
AUG 29 215630.9s 38.27S 175.90E 182km M=3.9
0.2 0.02 0.01 2
Rsd 0.1s 11ph/8stn Dmin 87km Az.gap 238°
Corr. -0.637 5M/5stn Msd 0.1 1↑ 1↓

01/11819
AUG 29 222331.6s 37.59S 179.09W 33km M=3.8
1.9 0.15 0.11 R
Rsd 0.5s 8ph/7stn Dmin 277km Az.gap 331°
Corr. 0.056 4M/3stn Msd 0.3

01/11828
AUG 30 051739.8s 37.25S 177.35E 177km M=3.5
0.6 0.06 0.04 4
Rsd 0.3s 10ph/7stn Dmin 114km Az.gap 284°
Corr. -0.513 5M/5stn Msd 0.1

01/11832
AUG 30 061954.2s 40.18S 176.74E 63km M=3.6
0.2 0.01 0.02 4
Rsd 0.2s 33ph/25stn Dmin 20km Az.gap 185°
Corr. -0.393 15M/10stn Msd 0.2 3↑ 4↓

01/11836
AUG 30 075204.0s 37.15S 179.08W 33km M=3.9
0.6 0.05 0.04 R
Rsd 0.3s 9ph/6stn Dmin 257km Az.gap 338°
Corr. -0.418 3M/3stn Msd 0.2

01/11837
AUG 30 080645.8s 37.38S 179.25W 33km M=3.8
1.1 0.10 0.08 R
Rsd 0.4s 8ph/5stn Dmin 233km Az.gap 337°
Corr. -0.311 3M/3stn Msd 0.4 1↑

01/11843
AUG 30 133025.6s 37.26S 179.31W 33km M=3.5
0.3 0.03 0.02 R
Rsd 0.1s 4ph/3stn Dmin 233km Az.gap 343°
Corr. -0.140 1M/1stn Msd N.D.

01/11845
AUG 30 151512.4s 37.19S 178.86W 33km M=3.7
1.4 0.10 0.12 R
Rsd 0.4s 5ph/4stn Dmin 273km Az.gap 336°
Corr. -0.664 3M/3stn Msd 0.2

01/11847
AUG 30 154527.3s 37.41S 179.20W 33km M=4.0
0.7 0.07 0.05 R
Rsd 0.3s 11ph/7stn Dmin 236km Az.gap 329°
Corr. -0.312 4M/4stn Msd 0.3

01/11849
AUG 30 173741.8s 36.78S 179.00W 33km M=4.2
0.9 0.09 0.07 R
Rsd 0.4s 10ph/6stn Dmin 282km Az.gap 340°
Corr. -0.484 2M/2stn Msd 0.3

01/11852
AUG 30 182609.2s 36.90S 179.14W 33km M=3.9
0.2 0.03 0.01 R
Rsd 0.1s 5ph/3stn Dmin 264km Az.gap 345°
Corr. -0.626 1M/1stn Msd N.D.

01/11853
AUG 30 183434.2s 37.33S 179.18W 33km M=4.2
0.8 0.07 0.06 R
Rsd 0.4s 9ph/5stn Dmin 240km Az.gap 338°
Corr. -0.392 2M/2stn Msd 0.4

01/11854
AUG 30 193150.2s 36.94S 178.84W 33km M=3.8
0.9 0.09 0.07 R
Rsd 0.3s 8ph/6stn Dmin 286km Az.gap 341°
Corr. -0.471 4M/4stn Msd 0.3

01/11855
AUG 30 193639.3s 37.32S 179.11W 33km M=3.9
0.4 0.03 0.03 R
Rsd 0.1s 6ph/3stn Dmin 247km Az.gap 338°
Corr. -0.295 2M/2stn Msd 0.3

01/11858
AUG 30 223654.6s 37.12S 179.56W 33km M=5.3
0.8 0.06 0.06 R
Rsd 0.3s 17ph/13stn Dmin 196km Az.gap 305°
Corr. -0.239 30M/15stn Msd 0.2 1↑ 2↓

01/11859
AUG 30 224938.2s 37.03S 179.40W 33km M=3.6
0.3 0.03 0.02 R
Rsd 0.1s 6ph/4stn Dmin 213km Az.gap 336°
Corr. -0.466 2M/2stn Msd 0.2

01/11862
AUG 31 000940.9s 37.02S 179.46W 33km M=3.6
0.5 0.06 0.04 R
Rsd 0.2s 6ph/4stn Dmin 208km Az.gap 337°
Corr. -0.470 2M/2stn Msd 0.2

01/11866
AUG 31 010911.8s 37.34S 179.03W 33km M=3.7
1.2 0.07 0.08 R
Rsd 0.5s 8ph/6stn Dmin 238km Az.gap 320°
Corr. -0.204 3M/3stn Msd 0.2

01/11867
AUG 31 011406.0s 36.99S 179.15W 33km M=3.7
0.3 0.03 0.02 R
Rsd 0.1s 6ph/4stn Dmin 236km Az.gap 337°
Corr. -0.483 2M/2stn Msd 0.2

01/11869
AUG 31 021254.2s 36.78S 179.24W 33km M=4.4
0.6 0.04 0.04 R
Rsd 0.2s 11ph/7stn Dmin 236km Az.gap 313°
Corr. -0.113 8M/5stn Msd 0.1

01/11873
AUG 31 030111.5s 35.72S 178.30E 235km M=3.8
0.4 0.06 0.05 7
Rsd 0.1s 5ph/4stn Dmin 209km Az.gap 340°
Corr. -0.638 3M/3stn Msd 0.2 1↑

01/11876
AUG 31 034412.8s 36.78S 179.63W 33km M=3.5
1.5 0.17 0.11 R
Rsd 0.5s 7ph/4stn Dmin 205km Az.gap 340°
Corr. -0.500 3M/3stn Msd 0.2

01/11877
AUG 31 035612.4s 36.94S 179.31W 33km M=4.3
0.4 0.04 0.04 R
Rsd 0.2s 10ph/7stn Dmin 224km Az.gap 315°
Corr. -0.521 9M/8stn Msd 0.2

01/11878
AUG 31 040540.0s 39.85S 179.14E 33km M=3.5
0.5 0.02 0.04 R
Rsd 0.4s 22ph/17stn Dmin 156km Az.gap 257°
Corr. -0.530 5M/5stn Msd 0.1

01/11879
AUG 31 042816.7s 40.38S 174.65E 94km M=4.7
0.2 0.01 0.01 3
Rsd 0.2s 50ph/39stn Dmin 58km Az.gap 77°
Corr. -0.082 12M/6stn Msd 0.2 14↑ 11↓
Felt Wellington (68).

01/11882
AUG 31 053912.1s 36.85S 179.07W 33km M=3.7
0.5 0.06 0.04 R
Rsd 0.2s 6ph/4stn Dmin 248km Az.gap 339°
Corr. -0.547 3M/3stn Msd 0.2

01/11885
AUG 31 062235.2s 36.21S 179.67W 33km M=3.9
0.4 0.04 0.04 R
Rsd 0.1s 8ph/6stn Dmin 237km Az.gap 345°
Corr. -0.684 2M/2stn Msd 0.0 1↑

01/11888
AUG 31 064841.7s 37.10S 179.43W 33km M=3.7
0.5 0.08 0.05 R
Rsd 0.2s 5ph/3stn Dmin 209km Az.gap 347°
Corr. -0.782 3M/3stn Msd 0.2

01/11890
AUG 31 071122.2s 36.15S 179.76W 33km M=3.7
0.5 0.06 0.06 R
Rsd 0.2s 5ph/3stn Dmin 277km Az.gap 347°
Corr. -0.743 3M/3stn Msd 0.0

01/11893
AUG 31 082334.3s 36.74S 178.87W 33km M=4.0
1.1 0.10 0.09 R
Rsd 0.4s 9ph/7stn Dmin 269km Az.gap 336°
Corr. -0.386 5M/5stn Msd 0.3

01/11894
AUG 31 091359.2s 36.61S 179.27W 33km M=3.6
0.2 0.03 0.03 R
Rsd 0.1s 5ph/3stn Dmin 242km Az.gap 351°
Corr. -0.808 3M/3stn Msd 0.2

01/11895
AUG 31 091924.3s 36.39S 179.04W 33km M=4.8
0.3 0.03 0.03 R
Rsd 0.1s 11ph/7stn Dmin 272km Az.gap 315°
Corr. -0.328 14M/8stn Msd 0.2

01/11897
AUG 31 095033.1s 36.19S 179.20W 33km M=3.8
1.6 0.32 0.23 R
Rsd 0.4s 5ph/3stn Dmin 272km Az.gap 352°
Corr. -0.885 2M/2stn Msd 0.3

01/11904
AUG 31 102740.4s 36.75S 179.15W 33km M=4.0
0.4 0.03 0.03 R
Rsd 0.1s 7ph/4stn Dmin 245km Az.gap 340°
Corr. -0.535 3M/3stn Msd 0.2

01/11906
AUG 31 103532.1s 36.77S 179.21W 33km M=3.5
0.8 0.10 0.06 R
Rsd 0.2s 6ph/4stn Dmin 240km Az.gap 340°
Corr. -0.644 2M/2stn Msd 0.2

01/11909
AUG 31 115514.0s 36.02S 179.14W 33km M=4.3
0.7 0.09 0.07 R
Rsd 0.2s 11ph/9stn Dmin 288km Az.gap 347°
Corr. -0.603 3M/3stn Msd 0.2

01/11910
AUG 31 123703.0s 37.25S 179.34W 33km M=4.0
0.5 0.03 0.04 R
Rsd 0.2s 8ph/6stn Dmin 213km Az.gap 332°
Corr. -0.410 4M/4stn Msd 0.2

01/11911
AUG 31 123744.3s 37.23S 179.06W 33km M=3.6
0.4 0.05 0.04 R
Rsd 0.1s 6ph/4stn Dmin 237km Az.gap 345°
Corr. -0.828 3M/3stn Msd 0.3

01/11912
AUG 31 124909.8s 37.02S 178.98W 33km M=3.6
0.4 0.05 0.03 R
Rsd 0.1s 6ph/4stn Dmin 249km Az.gap 338°
Corr. -0.551 3M/3stn Msd 0.2

01/11913
AUG 31 125837.4s 36.83S 179.33W 33km M=4.5
0.5 0.05 0.04 R
Rsd 0.1s 14ph/10stn Dmin 227km Az.gap 313°
Corr. -0.302 12M/7stn Msd 0.2

01/11914
AUG 31 131351.5s 37.05S 179.44W 33km M=3.7
1.0 0.05 0.09 R
Rsd 0.2s 5ph/4stn Dmin 210km Az.gap 330°
Corr. -0.660 4M/4stn Msd 0.3

01/11915
AUG 31 131726.6s 36.80S 179.31W 33km M=3.8
0.7 0.08 0.05 R
Rsd 0.2s 6ph/4stn Dmin 230km Az.gap 339°
Corr. -0.541 2M/2stn Msd 0.4

01/11918
AUG 31 144112.1s 36.34S 179.21W 33km M=4.7
0.7 0.05 0.05 R
Rsd 0.2s 11ph/7stn Dmin 262km Az.gap 315°
Corr. -0.159 11M/6stn Msd 0.2

01/11919
AUG 31 150825.3s 37.03S 179.17W 33km M=4.0
0.4 0.03 0.03 R
Rsd 0.1s 11ph/7stn Dmin 233km Az.gap 331°
Corr. -0.496 5M/5stn Msd 0.3

01/11920
AUG 31 152417.5s 36.29S 179.11W 33km M=4.0
0.4 0.06 0.06 R
Rsd 0.1s 5ph/4stn Dmin 272km Az.gap 347°
Corr. -0.839 2M/2stn Msd 0.3

01/11921
AUG 31 152529.0s 36.56S 179.05W 33km M=3.9
2.4 0.24 0.28 R
Rsd 0.6s 4ph/3stn Dmin 262km Az.gap 341°
Corr. -0.806 3M/3stn Msd 0.3

01/11922
AUG 31 154729.4s 37.02S 176.88E 270km M=3.7
0.5 0.06 0.05 5
Rsd 0.2s 10ph/8stn Dmin 140km Az.gap 273°
Corr. -0.665 3M/3stn Msd 0.1

01/11926
AUG 31 164323.3s 37.00S 178.89W 33km M=3.8
1.2 0.08 0.09 R
Rsd 0.3s 7ph/5stn Dmin 258km Az.gap 334°
Corr. -0.164 3M/3stn Msd 0.2

01/11931
AUG 31 180050.5s 36.36S 179.10W 33km M=4.6
0.3 0.04 0.03 R
Rsd 0.1s 12ph/8stn Dmin 269km Az.gap 339°
Corr. -0.687 17M/13stn Msd 0.2

01/11939
AUG 31 211336.9s 37.48S 177.18E 131km M=3.6
0.2 0.01 0.01 2
Rsd 0.1s 10ph/7stn Dmin 87km Az.gap 242°
Corr. -0.606 3M/3stn Msd 0.1 1↑ 1↓

01/11941
AUG 31 213351.7s 37.90S 175.66E 139km M=3.6
0.5 0.04 0.06 8
Rsd 0.2s 11ph/8stn Dmin 133km Az.gap 267°
Corr. -0.735 2M/2stn Msd 0.1

01/11943
SEP 01 000234.4s 36.89S 179.02W 33km M=4.0
0.7 0.05 0.05 R
Rsd 0.2s 9ph/6stn Dmin 250km Az.gap 336°
Corr. -0.244 3M/3stn Msd 0.2

01/11944
SEP 01 002612.4s 37.29S 178.97W 33km M=3.9
1.3 0.07 0.09 R
Rsd 0.3s 9ph/7stn Dmin 244km Az.gap 321°
Corr. -0.504 3M/3stn Msd 0.2

01/11946
SEP 01 012433.1s 36.96S 179.22W 33km M=4.0
0.5 0.04 0.04 R
Rsd 0.2s 9ph/7stn Dmin 231km Az.gap 335°
Corr. -0.434 3M/3stn Msd 0.2

01/11950
SEP 01 021349.7s 36.38S 179.10W 33km M=3.8
0.7 0.08 0.07 R
Rsd 0.2s 5ph/4stn Dmin 268km Az.gap 344°
Corr. -0.509 2M/2stn Msd 0.4

01/11951
SEP 01 022223.1s 37.35S 177.38E 139km M=3.7
0.5 0.04 0.03 4
Rsd 0.2s 11ph/9stn Dmin 87km Az.gap 248°
Corr. -0.533 2M/2stn Msd 0.2 1↑

01/11953
SEP 01 024603.2s 36.68S 178.94W 33km M=4.0
0.9 0.11 0.07 R
Rsd 0.2s 7ph/4stn Dmin 266km Az.gap 341°
Corr. -0.615 2M/2stn Msd 0.4

01/11954
SEP 01 034050.1s 39.76S 174.41E 172km M=3.9
0.5 0.02 0.03 4
Rsd 0.2s 27ph/24stn Dmin 45km Az.gap 101°
Corr. -0.298 9M/8stn Msd 0.4 1↑

01/11955
SEP 01 034949.7s 36.17S 179.27W 33km M=3.8
0.1 0.02 0.02 R
Rsd 0.0s 5ph/3stn Dmin 268km Az.gap 352°
Corr. -0.894 2M/2stn Msd 0.2

01/11956
SEP 01 051219.8s 39.84S 173.88E 142km M=3.9
0.3 0.01 0.01 3
Rsd 0.2s 41ph/32stn Dmin 60km Az.gap 141°
Corr. -0.476 14M/9stn Msd 0.3 1↑

01/11960
SEP 01 065359.6s 36.73S 178.75W 33km M=4.0
0.7 0.08 0.06 R
Rsd 0.2s 8ph/6stn Dmin 279km Az.gap 341°
Corr. -0.602 2M/2stn Msd 0.4

01/11965
SEP 01 084444.1s 36.73S 179.83E 33km M=3.5
1.2 0.12 0.09 R
Rsd 0.3s 7ph/5stn Dmin 166km Az.gap 342°
Corr. -0.390 2M/2stn Msd 0.5

01/11967
SEP 01 092416.2s 36.18S 179.40W 33km M=3.8
0.4 0.06 0.08 R
Rsd 0.1s 4ph/3stn Dmin 258km Az.gap 352°
Corr. -0.877 3M/3stn Msd 0.2

01/11968
SEP 01 092703.6s 36.86S 177.13E 211km M=3.8
0.8 0.07 0.05 7
Rsd 0.3s 10ph/8stn Dmin 132km Az.gap 282°
Corr. -0.612 3M/3stn Msd 0.3 2↑ 1↓

01/11969
SEP 01 093549.3s 36.76S 179.36W 33km M=3.5
0.5 0.05 0.04 R
Rsd 0.2s 5ph/4stn Dmin 228km Az.gap 340°
Corr. -0.412 2M/2stn Msd 0.2

01/11974
SEP 01 151534.9s 36.29S 179.17W 33km M=3.5
0.1 0.02 0.02 R
Rsd 0.0s 4ph/3stn Dmin 268km Az.gap 352°
Corr. -0.850 2M/2stn Msd 0.3

01/11978
SEP 01 181706.5s 44.90S 167.62E 74km M=3.6
0.4 0.02 0.02 3
Rsd 0.2s 14ph/8stn Dmin 35km Az.gap 193°
Corr. -0.402 11M/7stn Msd 0.2 1↑ 2↓

01/11982
SEP 01 195402.1s 37.09S 179.44W 12km M=3.8
1.1 0.08 0.09 R
Rsd 0.4s 9ph/6stn Dmin 208km Az.gap 332°
Corr. -0.550 4M/4stn Msd 0.2

01/11983
SEP 01 195409.7s 40.15S 177.03E 37km M=3.7
0.1 0.01 0.01 2
Rsd 0.2s 32ph/26stn Dmin 19km Az.gap 194°
Corr. -0.649 12M/8stn Msd 0.2 1↑ 1↓

01/11985
SEP 01 211012.7s 38.51S 175.81E 152km M=3.6
0.7 0.04 0.02 5
Rsd 0.2s 15ph/12stn Dmin 59km Az.gap 204°
Corr. -0.764 9M/8stn Msd 0.1

01/11993
SEP 02 011332.3s 36.24S 179.30W 33km M=3.8
0.3 0.06 0.06 R
Rsd 0.1s 5ph/3stn Dmin 262km Az.gap 352°
Corr. -0.895 2M/2stn Msd 0.4

01/11996
SEP 02 022002.2s 36.52S 179.73W 33km M=3.8
1.7 0.14 0.15 R
Rsd 0.4s 5ph/4stn Dmin 212km Az.gap 344°
Corr. -0.312 2M/2stn Msd 0.2

01/11997
SEP 02 033452.2s 38.20S 176.56E 115km M=3.9
0.6 0.04 0.02 5
Rsd 0.2s 11ph/9stn Dmin 49km Az.gap 233°
Corr. -0.491 7M/7stn Msd 0.2 1↑

01/11998
SEP 02 040108.8s 36.69S 179.17W 33km M=4.0
1.2 0.15 0.12 R
Rsd 0.4s 9ph/6stn Dmin 247km Az.gap 343°
Corr. -0.653 2M/2stn Msd 0.2

01/12003
SEP 02 060940.0s 36.85S 179.44W 33km M=3.6
1.0 0.14 0.10 R
Rsd 0.3s 6ph/4stn Dmin 217km Az.gap 339°
Corr. -0.663 2M/2stn Msd 0.2

01/12004
SEP 02 061208.8s 37.16S 179.20W 33km M=3.7
1.2 0.11 0.08 R
Rsd 0.5s 10ph/6stn Dmin 226km Az.gap 331°
Corr. -0.281 2M/2stn Msd 0.0

01/12007
SEP 02 063810.4s 36.52S 179.70W 33km M=3.6
0.7 0.12 0.13 R
Rsd 0.2s 6ph/5stn Dmin 214km Az.gap 351°
Corr. -0.879 2M/2stn Msd 0.3

01/12008
SEP 02 070128.1s 37.10S 179.05W 33km M=3.7
1.2 0.07 0.09 R
Rsd 0.3s 7ph/6stn Dmin 241km Az.gap 328°
Corr. -0.526 2M/2stn Msd 0.3

01/12009
SEP 02 070713.8s 36.86S 179.38W 33km M=4.4
0.4 0.03 0.03 R
Rsd 0.1s 15ph/12stn Dmin 222km Az.gap 310°
Corr. -0.383 8M/7stn Msd 0.2

01/12012
SEP 02 082230.0s 36.85S 179.58W 33km M=3.5
0.8 0.06 0.08 R
Rsd 0.2s 5ph/4stn Dmin 206km Az.gap 337°
Corr. -0.732 2M/2stn Msd 0.3

01/12018
SEP 02 092716.9s 36.73S 179.14W 33km M=4.1
0.4 0.05 0.03 R
Rsd 0.1s 11ph/7stn Dmin 247km Az.gap 336°
Corr. -0.526 3M/3stn Msd 0.3

01/12019
SEP 02 093352.8s 37.36S 178.88W 33km M=3.8
0.1 0.03 0.01 R
Rsd 0.0s 4ph/3stn Dmin 264km Az.gap 353°
Corr. -0.727 1M/1stn Msd N.D.

01/12020
SEP 02 110917.8s 37.10S 176.26E 232km M=3.6
0.4 0.04 0.06 4
Rsd 0.1s 11ph/10stn Dmin 149km Az.gap 305°
Corr. -0.728 6M/6stn Msd 0.2

01/12027
SEP 02 153137.2s 37.42S 178.73W 33km M=3.7
1.9 0.11 0.13 R
Rsd 0.6s 6ph/4stn Dmin 263km Az.gap 319°
Corr. -0.373 2M/2stn Msd 0.3

01/12028
SEP 02 154634.1s 36.69S 179.32W 33km M=3.8
0.2 0.03 0.02 R
Rsd 0.0s 4ph/3stn Dmin 235km Az.gap 350°
Corr. -0.852 2M/2stn Msd 0.3

01/12032
SEP 02 170945.2s 36.63S 178.74W 33km M=3.9
0.3 0.06 0.04 R
Rsd 0.1s 7ph/4stn Dmin 285km Az.gap 351°
Corr. -0.892 2M/2stn Msd 0.4

01/12033
SEP 02 174046.0s 37.15S 179.09W 33km M=3.6
0.1 0.02 0.01 R
Rsd 0.0s 4ph/3stn Dmin 237km Az.gap 349°
Corr. -0.793 2M/2stn Msd 0.3

01/12041
SEP 02 215801.3s 36.78S 178.81W 33km M=3.8
1.7 0.33 0.23 R
Rsd 0.4s 5ph/3stn Dmin 272km Az.gap 350°
Corr. -0.903 1M/1stn Msd N.D.

01/12043
SEP 02 224456.8s 36.89S 178.97W 33km M=3.9
1.7 0.13 0.11 R
Rsd 0.4s 7ph/5stn Dmin 255km Az.gap 333°
Corr. -0.459 3M/3stn Msd 0.2

01/12045
SEP 02 232847.1s 38.56S 177.85E 25km M=3.9
0.1 0.01 0.01 2
Rsd 0.3s 25ph/20stn Dmin 17km Az.gap 78°
Corr. -0.137 8M/4stn Msd 0.1 3↑ 5↓
Felt Gisborne district.

01/12047
SEP 03 000229.4s 36.39S 179.03W 33km M=4.4
0.6 0.04 0.05 R
Rsd 0.2s 13ph/10stn Dmin 273km Az.gap 315°
Corr. -0.027 11M/9stn Msd 0.2

01/12048
SEP 03 005613.3s 36.97S 179.08W 33km M=3.5
1.0 0.09 0.08 R
Rsd 0.3s 6ph/5stn Dmin 243km Az.gap 337°
Corr. -0.214 2M/2stn Msd 0.1

01/12061
SEP 03 075743.4s 41.37S 172.85E 122km M=3.7
0.4 0.02 0.01 3
Rsd 0.3s 34ph/23stn Dmin 44km Az.gap 92°
Corr. -0.201 11M/9stn Msd 0.3 6↑ 2↓

01/12065
SEP 03 084801.9s 39.20S 174.82E 207km M=3.8
0.3 0.01 0.01 2
Rsd 0.1s 28ph/22stn Dmin 38km Az.gap 159°
Corr. 0.098 7M/6stn Msd 0.2 1↑

01/12067
SEP 03 093915.6s 36.42S 179.13W 33km M=4.5
0.4 0.05 0.03 R
Rsd 0.1s 12ph/7stn Dmin 264km Az.gap 344°
Corr. -0.525 10M/6stn Msd 0.2

01/12072
SEP 03 105709.8s 43.91S 168.96E 5km M=3.7
0.3 0.02 0.02 R
Rsd 0.3s 16ph/10stn Dmin 101km Az.gap 178°
Corr. -0.674 9M/6stn Msd 0.1 1↑

01/12074
SEP 03 111446.4s 36.77S 177.42E 197km M=3.8
0.8 0.07 0.08 6
Rsd 0.3s 10ph/7stn Dmin 121km Az.gap 290°
Corr. -0.534 7M/7stn Msd 0.3

01/12075
SEP 03 113925.2s 37.04S 179.49W 33km M=4.0
0.8 0.06 0.06 R
Rsd 0.3s 10ph/8stn Dmin 205km Az.gap 314°
Corr. -0.134 8M/8stn Msd 0.2

01/12081
SEP 03 160817.1s 37.22S 179.25W 33km M=3.5
0.4 0.04 0.03 R
Rsd 0.1s 4ph/3stn Dmin 221km Az.gap 348°
Corr. -0.560 2M/2stn Msd 0.1

01/12085
SEP 03 181841.5s 38.15S 176.20E 135km M=3.7
0.3 0.01 0.01 4
Rsd 0.2s 14ph/10stn Dmin 81km Az.gap 134°
Corr. -0.146 9M/9stn Msd 0.1 1↓

01/12088
SEP 03 190941.9s 36.66S 179.17W 33km M=3.7
0.8 0.13 0.12 R
Rsd 0.2s 4ph/3stn Dmin 248km Az.gap 351°
Corr. -0.903 2M/2stn Msd 0.2

01/12094
SEP 03 193521.4s 37.06S 179.10W 33km M=3.8
0.8 0.11 0.06 R
Rsd 0.2s 6ph/4stn Dmin 238km Az.gap 336°
Corr. -0.522 2M/2stn Msd 0.3

01/12095
SEP 03 194146.2s 37.02S 178.88W 33km M=3.9
0.3 0.05 0.03 R
Rsd 0.1s 5ph/3stn Dmin 258km Az.gap 349°
Corr. -0.860 2M/2stn Msd 0.3

01/12102
SEP 03 225700.2s 38.58S 177.85E 29km M=3.7
0.2 0.02 0.02 3
Rsd 0.4s 17ph/14stn Dmin 17km Az.gap 93°
Corr. -0.613 14M/12stn Msd 0.3 1↑ 1↓
Felt Otoko (36).

01/12104
SEP 04 001504.4s 37.39S 179.34W 33km M=4.4
0.7 0.05 0.05 R
Rsd 0.3s 10ph/6stn Dmin 225km Az.gap 310°
Corr. -0.392 11M/8stn Msd 0.3

01/12105
SEP 04 022626.2s 36.48S 179.29W 33km M=4.0
1.0 0.10 0.08 R
Rsd 0.4s 10ph/7stn Dmin 248km Az.gap 314°
Corr. -0.433 7M/7stn Msd 0.3

01/12107
SEP 04 035340.2s 41.23S 172.70E 196km M=4.2
0.4 0.02 0.02 3
Rsd 0.3s 37ph/27stn Dmin 47km Az.gap 110°
Corr. -0.236 12M/10stn Msd 0.4 10↑ 4↓

01/12109
SEP 04 062640.4s 36.89S 179.32W 33km M=3.5
0.6 0.07 0.07 R
Rsd 0.1s 4ph/3stn Dmin 225km Az.gap 349°
Corr. -0.699 2M/2stn Msd 0.1

01/12113
SEP 04 091618.7s 38.48S 176.30E 191km M=3.7
0.4 0.02 0.03 3
Rsd 0.1s 15ph/13stn Dmin 75km Az.gap 203°
Corr. -0.621 5M/5stn Msd 0.1

01/12123
SEP 04 142336.8s 37.37S 177.80E 101km M=4.5
0.4 0.02 0.02 4
Rsd 0.2s 15ph/12stn Dmin 51km Az.gap 190°
Corr. 0.272 8M/4stn Msd 0.2 2↓

01/12136
SEP 05 045410.3s 36.72S 179.13W 33km M=3.9
0.3 0.03 0.02 R
Rsd 0.1s 8ph/7stn Dmin 248km Az.gap 341°
Corr. -0.406 2M/2stn Msd 0.0

01/12141
SEP 05 091206.5s 36.74S 179.14W 33km M=3.8
1.2 0.17 0.17 R
Rsd 0.2s 5ph/4stn Dmin 274km Az.gap 346°
Corr. -0.879 2M/2stn Msd 0.3

01/12156
SEP 05 162332.0s 36.62S 178.91W 33km M=4.2
0.7 0.07 0.07 R
Rsd 0.2s 10ph/8stn Dmin 271km Az.gap 340°
Corr. -0.596 5M/4stn Msd 0.3

01/12157
SEP 05 163604.8s 36.45S 179.03W 33km M=4.7
0.4 0.04 0.03 R
Rsd 0.1s 11ph/7stn Dmin 270km Az.gap 315°
Corr. -0.565 9M/6stn Msd 0.2

01/12159
SEP 05 173347.4s 35.97S 179.44E 33km M=4.9
1.0 0.06 0.05 R
Rsd 0.3s 22ph/18stn Dmin 208km Az.gap 307°
Corr. 0.533 23M/12stn Msd 0.2 1↑ 2↓

01/12160
SEP 05 173645.3s 37.03S 178.36W 33km M=3.9
0.8 0.06 0.07 R
Rsd 0.3s 10ph/8stn Dmin 303km Az.gap 334°
Corr. -0.572 5M/5stn Msd 0.3

01/12164
SEP 05 191540.6s 36.59S 178.82W 33km M=4.3
0.3 0.04 0.03 R
Rsd 0.1s 9ph/5stn Dmin 307km Az.gap 346°
Corr. -0.667 1M/1stn Msd N.D.

01/12166
SEP 05 204739.8s 37.17S 176.60E 266km M=3.6
1.0 0.08 0.10 8
Rsd 0.4s 9ph/7stn Dmin 129km Az.gap 309°
Corr. -0.293 1M/1stn Msd N.D.

01/12176
SEP 06 004517.4s 37.76S 179.40E 33km M=3.8
1.0 0.10 0.05 R
Rsd 0.3s 5ph/3stn Dmin 106km Az.gap 333°
Corr. 0.003 1M/1stn Msd N.D. 1↓

01/12178
SEP 06 045730.0s 37.87S 176.48E 165km M=3.8
0.7 0.04 0.03 5
Rsd 0.3s 11ph/9stn Dmin 70km Az.gap 275°
Corr. -0.004 5M/5stn Msd 0.2 1↑ 1↓

01/12180
SEP 06 051755.5s 37.25S 179.30W 33km M=3.9
0.4 0.04 0.03 R
Rsd 0.2s 7ph/5stn Dmin 216km Az.gap 334°
Corr. -0.325 2M/2stn Msd 0.2

01/12211
SEP 06 223106.9s 37.29S 179.32W 33km M=3.7
0.3 0.04 0.02 R
Rsd 0.1s 5ph/3stn Dmin 230km Az.gap 343°
Corr. -0.414 2M/2stn Msd 0.3

01/12225
SEP 07 081054.9s 36.81S 179.18W 33km M=4.2
0.5 0.06 0.04 R
Rsd 0.2s 7ph/5stn Dmin 240km Az.gap 332°
Corr. -0.531 6M/4stn Msd 0.1

01/12229
SEP 07 111354.4s 37.07S 176.99E 250km M=4.7
0.4 0.02 0.02 3
Rsd 0.1s 21ph/18stn Dmin 106km Az.gap 190°
Corr. 0.622 13M/7stn Msd 0.2 10↑ 2↓

01/12233
SEP 07 125218.1s 37.39S 179.27W 33km M=3.6
0.4 0.04 0.03 R
Rsd 0.2s 6ph/4stn Dmin 216km Az.gap 332°
Corr. -0.277 2M/2stn Msd 0.2

01/12238
SEP 07 182632.8s 37.13S 179.39W 33km M=4.1
1.2 0.10 0.09 R
Rsd 0.5s 9ph/6stn Dmin 211km Az.gap 325°
Corr. -0.386 6M/4stn Msd 0.2 1↓

01/12241
SEP 07 214425.0s 41.25S 178.58E 33km M=3.5
0.5 0.03 0.04 R
Rsd 0.2s 10ph/8stn Dmin 259km Az.gap 273°
Corr. -0.809 5M/5stn Msd 0.3

01/12248
SEP 08 011907.3s 41.07S 178.28E 12km M=3.8
0.7 0.04 0.05 R
Rsd 0.4s 25ph/19stn Dmin 167km Az.gap 232°
Corr. -0.801 13M/12stn Msd 0.3

01/12250
SEP 08 032939.9s 40.48S 174.63E 58km M=4.0
0.2 0.01 0.01 4
Rsd 0.2s 37ph/29stn Dmin 49km Az.gap 78°
Corr. -0.159 13M/9stn Msd 0.2 5↑ 4↓
Felt Wanganui (57).

01/12252
SEP 08 040434.5s 36.39S 178.12E 223km M=4.2
0.7 0.06 0.05 6
Rsd 0.3s 10ph/9stn Dmin 135km Az.gap 303°
Corr. -0.290 6M/6stn Msd 0.2

01/12254
SEP 08 043421.2s 40.50S 174.62E 58km M=3.8
0.2 0.01 0.01 4
Rsd 0.3s 38ph/31stn Dmin 48km Az.gap 77°
Corr. -0.083 12M/8stn Msd 0.2 5↑ 3↓

01/12256
SEP 08 055327.2s 36.59S 179.37W 33km M=4.2
0.6 0.03 0.05 R
Rsd 0.2s 10ph/7stn Dmin 235km Az.gap 316°
Corr. -0.218 9M/7stn Msd 0.2

01/12259
SEP 08 080105.8s 36.59S 178.96W 33km M=3.9
0.9 0.11 0.08 R
Rsd 0.3s 7ph/5stn Dmin 268km Az.gap 340°
Corr. -0.629 4M/4stn Msd 0.2

01/12260
SEP 08 081902.0s 36.73S 179.48W 33km M=3.5
0.6 0.09 0.07 R
Rsd 0.2s 6ph/4stn Dmin 219km Az.gap 350°
Corr. -0.799 3M/3stn Msd 0.2

01/12261
SEP 08 081953.8s 37.27S 179.10W 33km M=3.9
0.7 0.05 0.04 R
Rsd 0.3s 7ph/4stn Dmin 233km Az.gap 329°
Corr. -0.214 3M/3stn Msd 0.1

01/12262
SEP 08 083216.7s 40.35S 174.25E 78km M=3.8
0.2 0.01 0.01 3
Rsd 0.2s 50ph/35stn Dmin 58km Az.gap 97°
Corr. -0.122 8M/4stn Msd 0.2 6↑ 4↓

01/12263
SEP 08 085423.7s 36.74S 178.89W 33km M=3.9
0.5 0.06 0.04 R
Rsd 0.2s 7ph/5stn Dmin 267km Az.gap 341°
Corr. -0.476 3M/3stn Msd 0.2

01/12289
SEP 08 180553.9s 38.31S 175.99E 175km M=3.9
0.6 0.03 0.02 4
Rsd 0.2s 18ph/15stn Dmin 77km Az.gap 104°
Corr. 0.359 11M/9stn Msd 0.3 1↑

01/12293
SEP 08 203019.5s 39.18S 174.83E 221km M=4.3
0.5 0.03 0.04 4
Rsd 0.3s 34ph/27stn Dmin 39km Az.gap 97°
Corr. 0.006 17M/12stn Msd 0.3 11↑ 9↓

01/12300
SEP 09 023541.2s 36.62S 179.22W 33km M=3.7
0.5 0.10 0.08 R
Rsd 0.1s 5ph/3stn Dmin 245km Az.gap 350°
Corr. -0.866 3M/3stn Msd 0.2

01/12302
SEP 09 040148.8s 38.76S 175.66E 134km M=4.1
0.2 0.01 0.01 2
Rsd 0.2s 42ph/35stn Dmin 8km Az.gap 63°
Corr. -0.373 14M/11stn Msd 0.3 17↑ 8↓

01/12316
SEP 09 084900.9s 36.87S 179.38W 33km M=3.7
0.4 0.04 0.03 R
Rsd 0.1s 8ph/5stn Dmin 222km Az.gap 331°
Corr. -0.400 4M/4stn Msd 0.1 1↑

01/12317
SEP 09 091100.6s 36.91S 177.84E 114km M=4.0
0.5 0.02 0.02 6
Rsd 0.3s 17ph/14stn Dmin 87km Az.gap 237°
Corr. 0.479 10M/8stn Msd 0.2 1↓

01/12319
SEP 09 092542.7s 36.49S 179.54W 12km M=4.3
0.7 0.06 0.06 R
Rsd 0.2s 11ph/7stn Dmin 228km Az.gap 312°
Corr. -0.443 19M/16stn Msd 0.2

01/12329
SEP 09 134921.7s 45.14S 167.47E 116km M=3.9
0.5 0.02 0.02 4
Rsd 0.3s 15ph/9stn Dmin 44km Az.gap 181°
Corr. -0.025 15M/11stn Msd 0.4 2↑ 4↓

01/12331
SEP 09 140433.0s 36.90S 179.06W 33km M=3.9
1.0 0.06 0.08 R
Rsd 0.2s 10ph/8stn Dmin 247km Az.gap 331°
Corr. -0.473 3M/3stn Msd 0.3

01/12333
SEP 09 143410.1s 36.44S 179.30W 33km M=3.7
0.1 0.01 0.01 R
Rsd 0.0s 6ph/4stn Dmin 249km Az.gap 351°
Corr. -0.855 3M/3stn Msd 0.2

01/12334
SEP 09 144356.6s 36.48S 179.28W 33km M=3.7
0.4 0.08 0.06 R
Rsd 0.1s 6ph/4stn Dmin 249km Az.gap 351°
Corr. -0.850 3M/3stn Msd 0.3

01/12341
SEP 09 180538.2s 36.32S 178.95W 33km M=3.7
0.6 0.07 0.05 R
Rsd 0.2s 6ph/4stn Dmin 283km Az.gap 345°
Corr. -0.651 3M/3stn Msd 0.4

01/12348
SEP 09 213305.8s 38.79S 176.07E 93km M=3.5
0.6 0.05 0.04 6
Rsd 0.2s 7ph/5stn Dmin 52km Az.gap 174°
Corr. -0.936 1M/1stn Msd N.D. 1↓

01/12350
SEP 09 214513.2s 37.00S 178.94W 33km M=3.9
0.6 0.04 0.05 R
Rsd 0.2s 11ph/9stn Dmin 253km Az.gap 330°
Corr. -0.580 7M/7stn Msd 0.2

01/12352
SEP 09 233851.2s 36.45S 178.96W 33km M=4.8
0.8 0.05 0.05 R
Rsd 0.2s 11ph/7stn Dmin 275km Az.gap 315°
Corr. -0.040 9M/5stn Msd 0.2

01/12353
SEP 09 234338.8s 36.88S 178.72W 33km M=4.3
0.6 0.06 0.05 R
Rsd 0.2s 11ph/8stn Dmin 298km Az.gap 338°
Corr. -0.521 10M/6stn Msd 0.2

01/12354
SEP 09 234838.2s 36.44S 179.01W 33km M=4.8
0.6 0.05 0.04 R
Rsd 0.2s 11ph/7stn Dmin 271km Az.gap 315°
Corr. -0.202 10M/5stn Msd 0.1

01/12355
SEP 09 235501.6s 36.75S 178.81W 33km M=3.8
0.7 0.06 0.05 R
Rsd 0.2s 7ph/5stn Dmin 273km Az.gap 338°
Corr. -0.373 3M/3stn Msd 0.3

01/12356
SEP 09 235714.5s 36.78S 178.61W 33km M=3.9
0.3 0.09 0.05 R
Rsd 0.1s 5ph/3stn Dmin 289km Az.gap 351°
Corr. -0.884 3M/3stn Msd 0.2

01/12358
SEP 10 003756.0s 36.60S 178.83W 33km M=4.0
0.3 0.05 0.03 R
Rsd 0.1s 8ph/6stn Dmin 278km Az.gap 342°
Corr. -0.655 3M/3stn Msd 0.2

01/12360
SEP 10 005041.0s 36.61S 178.83W 33km M=3.9
0.2 0.03 0.02 R
Rsd 0.0s 6ph/5stn Dmin 278km Az.gap 342°
Corr. -0.714 2M/2stn Msd 0.4

01/12361
SEP 10 011407.6s 36.65S 178.71W 33km M=3.8
1.2 0.22 0.17 R
Rsd 0.3s 6ph/4stn Dmin 285km Az.gap 351°
Corr. -0.931 3M/3stn Msd 0.2

01/12363
SEP 10 013305.9s 36.52S 179.18W 33km M=3.9
0.3 0.04 0.03 R
Rsd 0.1s 8ph/5stn Dmin 255km Az.gap 343°
Corr. -0.663 3M/3stn Msd 0.3

01/12371
SEP 10 030937.0s 36.72S 178.82W 33km M=3.9
0.8 0.07 0.07 R
Rsd 0.3s 9ph/7stn Dmin 274km Az.gap 338°
Corr. -0.564 5M/5stn Msd 0.2

01/12372
SEP 10 031331.7s 36.60S 178.82W 33km M=4.3
0.3 0.04 0.03 R
Rsd 0.1s 11ph/8stn Dmin 279km Az.gap 332°
Corr. -0.650 7M/5stn Msd 0.2

01/12376
SEP 10 055855.2s 36.77S 179.14W 33km M=4.1
0.4 0.03 0.03 R
Rsd 0.2s 10ph/8stn Dmin 245km Az.gap 312°
Corr. -0.401 6M/6stn Msd 0.2

01/12379
SEP 10 071635.0s 36.70S 179.09W 33km M=4.2
0.3 0.02 0.03 R
Rsd 0.1s 14ph/11stn Dmin 252km Az.gap 315°
Corr. -0.224 8M/6stn Msd 0.2

01/12380
SEP 10 072541.2s 36.74S 179.22W 33km M=3.6
0.6 0.10 0.07 R
Rsd 0.2s 5ph/3stn Dmin 240km Az.gap 350°
Corr. -0.777 2M/2stn Msd 0.3

01/12382
SEP 10 073102.2s 36.67S 179.07W 33km M=4.0
0.5 0.07 0.04 R
Rsd 0.2s 7ph/5stn Dmin 255km Az.gap 342°
Corr. -0.551 4M/4stn Msd 0.2

01/12386
SEP 10 082310.5s 36.83S 179.54W 33km M=4.4
0.4 0.04 0.03 R
Rsd 0.2s 10ph/6stn Dmin 210km Az.gap 309°
Corr. -0.361 19M/15stn Msd 0.2

01/12388
SEP 10 083941.9s 36.47S 178.97W 33km M=3.7
0.8 0.16 0.12 R
Rsd 0.2s 5ph/3stn Dmin 273km Az.gap 351°
Corr. -0.886 3M/3stn Msd 0.2

01/12391
SEP 10 091509.7s 36.71S 179.13W 33km M=4.0
0.5 0.03 0.04 R
Rsd 0.2s 11ph/9stn Dmin 249km Az.gap 317°
Corr. -0.217 5M/5stn Msd 0.2

01/12396
SEP 10 111333.2s 36.64S 179.23W 33km M=4.8
0.6 0.06 0.06 R
Rsd 0.2s 11ph/7stn Dmin 244km Az.gap 313°
Corr. -0.529 12M/6stn Msd 0.2 1↑

01/12397
SEP 10 111921.3s 36.73S 179.19W 33km M=3.9
0.4 0.02 0.03 R
Rsd 0.2s 9ph/7stn Dmin 243km Az.gap 311°
Corr. -0.112 4M/4stn Msd 0.2

01/12398
SEP 10 112106.2s 36.94S 179.10W 33km M=3.8
0.7 0.05 0.06 R
Rsd 0.2s 7ph/4stn Dmin 242km Az.gap 335°
Corr. -0.484 4M/4stn Msd 0.2

01/12402
SEP 10 132741.4s 36.98S 179.00W 33km M=3.9
1.1 0.08 0.08 R
Rsd 0.4s 9ph/6stn Dmin 249km Az.gap 334°
Corr. -0.322 4M/4stn Msd 0.3

01/12404
SEP 10 134304.2s 36.67S 179.29W 33km M=4.0
0.8 0.05 0.05 R
Rsd 0.3s 10ph/6stn Dmin 238km Az.gap 315°
Corr. 0.032 6M/5stn Msd 0.2

01/12406
SEP 10 135721.8s 36.76S 179.32W 33km M=4.8
1.0 0.06 0.07 R
Rsd 0.2s 16ph/12stn Dmin 231km Az.gap 310°
Corr. 0.277 14M/8stn Msd 0.2 1↑

01/12407
SEP 10 140004.3s 37.05S 179.23W 33km M=4.1
0.3 0.03 0.03 R
Rsd 0.1s 9ph/6stn Dmin 227km Az.gap 329°
Corr. -0.487 13M/12stn Msd 0.2

01/12410
SEP 10 141302.7s 36.78S 179.24W 33km M=4.0
0.1 0.01 0.01 R
Rsd 0.0s 6ph/4stn Dmin 237km Az.gap 340°
Corr. -0.580 3M/3stn Msd 0.3

01/12411
SEP 10 141641.8s 36.85S 179.20W 33km M=4.1
0.9 0.08 0.08 R
Rsd 0.3s 10ph/8stn Dmin 237km Az.gap 336°
Corr. -0.512 5M/4stn Msd 0.2

01/12412
SEP 10 142027.6s 36.79S 179.29W 33km M=4.1
0.6 0.07 0.04 R
Rsd 0.2s 7ph/5stn Dmin 232km Az.gap 339°
Corr. -0.577 3M/3stn Msd 0.1

01/12413
SEP 10 142701.1s 36.66S 179.11W 33km M=4.5
0.3 0.04 0.03 R
Rsd 0.1s 13ph/10stn Dmin 252km Az.gap 314°
Corr. -0.691 15M/11stn Msd 0.2

01/12414
SEP 10 142749.2s 36.55S 179.36W 33km M=4.6
0.7 0.06 0.05 R
Rsd 0.2s 12ph/9stn Dmin 239km Az.gap 312°
Corr. -0.079 15M/10stn Msd 0.2

01/12415
SEP 10 142939.8s 36.65S 178.94W 33km M=4.9
0.5 0.05 0.04 R
Rsd 0.2s 12ph/8stn Dmin 267km Az.gap 315°
Corr. -0.471 12M/8stn Msd 0.2

01/12416
SEP 10 143025.4s 37.08S 178.58W 33km M=4.9
1.4 0.10 0.10 R
Rsd 0.6s 11ph/9stn Dmin 282km Az.gap 313°
Corr. -0.404 15M/11stn Msd 0.2

01/12417
SEP 10 143218.5s 36.90S 178.80W 33km M=4.0
0.8 0.05 0.06 R
Rsd 0.2s 9ph/6stn Dmin 269km Az.gap 336°
Corr. -0.555 4M/4stn Msd 0.2

01/12418
SEP 10 143346.4s 36.87S 179.09W 33km M=4.1
0.3 0.04 0.03 R
Rsd 0.1s 10ph/6stn Dmin 245km Az.gap 332°
Corr. -0.749 8M/8stn Msd 0.2

01/12419
SEP 10 143458.4s 37.01S 179.00W 33km M=3.8
1.0 0.08 0.08 R
Rsd 0.3s 8ph/4stn Dmin 248km Az.gap 334°
Corr. -0.556 4M/4stn Msd 0.2

01/12420
SEP 10 144303.3s 36.70S 179.24W 33km M=4.2
0.5 0.03 0.04 R
Rsd 0.2s 11ph/7stn Dmin 240km Az.gap 311°
Corr. -0.318 11M/10stn Msd 0.2

01/12421
SEP 10 144427.4s 37.13S 179.00W 33km M=4.1
0.9 0.07 0.07 R
Rsd 0.3s 10ph/8stn Dmin 245km Az.gap 327°
Corr. -0.668 10M/10stn Msd 0.2

01/12422
SEP 10 144604.8s 36.55S 179.27W 33km M=4.6
0.7 0.06 0.06 R
Rsd 0.2s 12ph/7stn Dmin 245km Az.gap 313°
Corr. -0.493 9M/5stn Msd 0.2

01/12423
SEP 10 145741.5s 36.58S 179.11W 33km M=4.2
0.7 0.10 0.07 R
Rsd 0.2s 9ph/6stn Dmin 257km Az.gap 337°
Corr. -0.648 7M/5stn Msd 0.1

01/12424
SEP 10 145953.0s 37.03S 179.08W 33km M=3.9
1.0 0.08 0.08 R
Rsd 0.3s 10ph/7stn Dmin 241km Az.gap 330°
Corr. -0.437 5M/5stn Msd 0.2

01/12428
SEP 10 160341.0s 38.47S 175.87E 138km M=3.8
0.2 0.01 0.01 1
Rsd 0.1s 12ph/8stn Dmin 66km Az.gap 216°
Corr. -0.748 8M/8stn Msd 0.3 1↑

01/12429
SEP 10 161333.7s 36.52S 178.87W 33km M=4.2
0.6 0.08 0.06 R
Rsd 0.2s 7ph/5stn Dmin 279km Az.gap 343°
Corr. -0.651 2M/2stn Msd 0.2

01/12430
SEP 10 161853.7s 36.95S 179.06W 33km M=4.0
1.3 0.10 0.10 R
Rsd 0.5s 9ph/6stn Dmin 244km Az.gap 335°
Corr. -0.264 3M/3stn Msd 0.2

01/12431
SEP 10 162150.8s 36.80S 179.09W 33km M=3.7
0.7 0.07 0.06 R
Rsd 0.2s 4ph/3stn Dmin 248km Az.gap 340°
Corr. -0.617 2M/2stn Msd 0.3

01/12432
SEP 10 162611.7s 36.99S 179.04W 33km M=3.9
0.8 0.07 0.06 R
Rsd 0.3s 8ph/5stn Dmin 246km Az.gap 334°
Corr. -0.321 2M/2stn Msd 0.1

01/12435
SEP 10 175427.9s 36.68S 179.10W 33km M=4.8
0.7 0.05 0.06 R
Rsd 0.3s 14ph/11stn Dmin 253km Az.gap 312°
Corr. -0.410 8M/4stn Msd 0.2

01/12436
SEP 10 175659.0s 37.15S 178.74W 33km M=3.8
1.5 0.08 0.10 R
Rsd 0.4s 8ph/6stn Dmin 266km Az.gap 324°
Corr. -0.450 5M/5stn Msd 0.2

01/12437
SEP 10 180002.4s 36.83S 178.79W 33km M=4.2
0.9 0.06 0.07 R
Rsd 0.2s 6ph/4stn Dmin 272km Az.gap 332°
Corr. -0.619 4M/4stn Msd 0.2

01/12438
SEP 10 180849.6s 35.67S 178.68E 33km M=3.5
3.1 0.18 0.30 R
Rsd 0.5s 4ph/3stn Dmin 269km Az.gap 342°
Corr. 0.250 2M/2stn Msd 0.3

01/12440
SEP 10 190437.9s 36.83S 179.25W 128km M=4.0
0.9 0.11 0.11 22
Rsd 0.4s 10ph/6stn Dmin 233km Az.gap 337°
Corr. -0.768 4M/4stn Msd 0.1

01/12441
SEP 10 201833.3s 36.49S 179.47W 33km M=3.6
0.6 0.10 0.09 R
Rsd 0.2s 5ph/3stn Dmin 233km Az.gap 351°
Corr. -0.849 3M/3stn Msd 0.3

01/12442
SEP 10 203712.4s 36.91S 179.10W 33km M=3.6
0.4 0.04 0.03 R
Rsd 0.1s 6ph/4stn Dmin 242km Az.gap 338°
Corr. -0.501 3M/3stn Msd 0.2

01/12446
SEP 11 000739.9s 38.59S 175.98E 168km M=3.5
0.7 0.03 0.03 5
Rsd 0.3s 12ph/9stn Dmin 60km Az.gap 205°
Corr. -0.504 6M/6stn Msd 0.2 4↑ 2↓

01/12447
SEP 11 012111.4s 36.75S 179.08W 33km M=4.7
0.6 0.04 0.05 R
Rsd 0.2s 13ph/10stn Dmin 250km Az.gap 311°
Corr. -0.069 21M/16stn Msd 0.2

01/12448
SEP 11 012902.5s 36.61S 179.24W 33km M=4.5
0.6 0.06 0.05 R
Rsd 0.2s 11ph/7stn Dmin 244km Az.gap 315°
Corr. -0.376 13M/8stn Msd 0.2

01/12449
SEP 11 013048.7s 36.79S 179.21W 33km M=4.6
0.5 0.05 0.04 R
Rsd 0.2s 10ph/6stn Dmin 238km Az.gap 314°
Corr. -0.485 12M/7stn Msd 0.2

01/12450
SEP 11 013647.3s 37.50S 176.65E 173km M=4.2
0.4 0.03 0.02 4
Rsd 0.1s 16ph/12stn Dmin 93km Az.gap 220°
Corr. -0.329 11M/9stn Msd 0.3 3↑ 2↓

01/12451
SEP 11 014051.4s 36.75S 179.32W 33km M=4.4
0.6 0.04 0.04 R
Rsd 0.2s 14ph/11stn Dmin 232km Az.gap 311°
Corr. -0.057 15M/11stn Msd 0.2 1↑ 1↓

01/12452
SEP 11 014359.7s 36.91S 179.08W 33km M=3.9
1.2 0.14 0.09 R
Rsd 0.4s 8ph/6stn Dmin 245km Az.gap 335°
Corr. -0.427 3M/3stn Msd 0.3

01/12454
SEP 11 025720.3s 37.03S 179.07W 33km M=3.7
0.9 0.08 0.07 R
Rsd 0.3s 10ph/7stn Dmin 241km Az.gap 333°
Corr. -0.469 5M/5stn Msd 0.2

01/12455
SEP 11 030224.2s 36.68S 179.33W 33km M=3.6
0.9 0.16 0.12 R
Rsd 0.3s 6ph/4stn Dmin 234km Az.gap 350°
Corr. -0.835 3M/3stn Msd 0.3

01/12457
SEP 11 032019.1s 36.61S 179.25W 33km M=3.9
0.3 0.03 0.02 R
Rsd 0.1s 4ph/3stn Dmin 244km Az.gap 342°
Corr. -0.573 2M/2stn Msd 0.2

01/12458
SEP 11 032815.4s 36.90S 179.05W 33km M=3.6
0.6 0.09 0.04 R
Rsd 0.2s 6ph/4stn Dmin 271km Az.gap 345°
Corr. -0.636 2M/2stn Msd 0.3

01/12460
SEP 11 035519.3s 36.65S 179.32W 33km M=4.5
0.5 0.04 0.03 R
Rsd 0.1s 10ph/6stn Dmin 236km Az.gap 312°
Corr. -0.170 20M/15stn Msd 0.2

01/12461
SEP 11 041256.9s 36.91S 179.19W 33km M=4.1
0.5 0.04 0.04 R
Rsd 0.2s 9ph/6stn Dmin 235km Az.gap 330°
Corr. -0.441 5M/3stn Msd 0.1

01/12465
SEP 11 051826.1s 36.98S 179.37W 33km M=3.8
0.8 0.07 0.06 R
Rsd 0.3s 6ph/4stn Dmin 217km Az.gap 337°
Corr. -0.287 3M/3stn Msd 0.2

01/12467
SEP 11 055834.7s 36.81S 179.07W 33km M=3.5
1.5 0.18 0.11 R
Rsd 0.5s 6ph/4stn Dmin 249km Az.gap 337°
Corr. -0.487 4M/4stn Msd 0.2

01/12479
SEP 11 092630.9s 36.64S 179.11W 33km M=4.2
0.3 0.03 0.03 R
Rsd 0.1s 15ph/11stn Dmin 253km Az.gap 313°
Corr. -0.441 14M/11stn Msd 0.2

01/12481
SEP 11 103104.8s 38.53S 175.82E 153km M=3.9
0.4 0.03 0.02 3
Rsd 0.1s 17ph/13stn Dmin 58km Az.gap 209°
Corr. -0.729 10M/9stn Msd 0.2 1↑

01/12482
SEP 11 103631.9s 36.74S 178.72W 33km M=3.8
0.5 0.09 0.06 R
Rsd 0.1s 5ph/3stn Dmin 281km Az.gap 351°
Corr. -0.830 3M/3stn Msd 0.2

01/12500
SEP 11 152007.1s 36.69S 179.29W 33km M=3.7
0.3 0.03 0.02 R
Rsd 0.1s 6ph/5stn Dmin 237km Az.gap 341°
Corr. -0.623 2M/2stn Msd 0.5

01/12505
SEP 11 155917.3s 36.95S 179.21W 33km M=3.9
1.8 0.16 0.16 R
Rsd 0.6s 10ph/8stn Dmin 232km Az.gap 335°
Corr. -0.575 4M/4stn Msd 0.3

01/12516
SEP 11 202413.6s 36.82S 179.16W 33km M=4.2
0.5 0.04 0.03 R
Rsd 0.2s 11ph/7stn Dmin 241km Az.gap 316°
Corr. 0.067 7M/5stn Msd 0.2

01/12518
SEP 11 210332.8s 37.02S 178.96W 33km M=3.7
0.2 0.02 0.01 R
Rsd 0.1s 4ph/3stn Dmin 251km Az.gap 338°
Corr. -0.316 2M/2stn Msd 0.2

01/12534
SEP 12 010716.1s 37.12S 179.01W 33km M=3.6
1.3 0.08 0.10 R
Rsd 0.3s 6ph/5stn Dmin 244km Az.gap 328°
Corr. -0.598 3M/3stn Msd 0.2

01/12536
SEP 12 013622.4s 37.21S 179.19W 33km M=3.7
0.8 0.07 0.06 R
Rsd 0.3s 7ph/5stn Dmin 226km Az.gap 330°
Corr. -0.161 3M/3stn Msd 0.2

01/12538
SEP 12 014041.7s 37.03S 179.40W 33km M=4.8
0.9 0.07 0.06 R
Rsd 0.2s 10ph/6stn Dmin 214km Az.gap 307°
Corr. -0.158 14M/8stn Msd 0.1 1↓

01/12540
SEP 12 021746.1s 37.24S 179.35W 33km M=3.7
1.1 0.13 0.07 R
Rsd 0.4s 8ph/5stn Dmin 212km Az.gap 334°
Corr. -0.442 3M/3stn Msd 0.2

01/12541
SEP 12 025635.5s 40.56S 174.35E 89km M=3.7
0.2 0.01 0.01 4
Rsd 0.3s 39ph/30stn Dmin 45km Az.gap 87°
Corr. -0.175 9M/8stn Msd 0.3 8↑ 1↓

01/12542
SEP 12 030815.7s 36.05S 179.14W 33km M=4.2
1.1 0.06 0.09 R
Rsd 0.3s 13ph/9stn Dmin 286km Az.gap 321°
Corr. 0.098 7M/6stn Msd 0.2

01/12543
SEP 12 031051.6s 35.99S 178.89W 33km M=3.6
0.1 0.03 0.03 R
Rsd 0.0s 5ph/3stn Dmin 308km Az.gap 353°
Corr. -0.922 3M/3stn Msd 0.2

01/12544
SEP 12 032012.7s 37.18S 179.38W 33km M=3.6
0.9 0.09 0.06 R
Rsd 0.3s 8ph/5stn Dmin 210km Az.gap 334°
Corr. -0.346 3M/3stn Msd 0.2

01/12545
SEP 12 032934.1s 46.68S 165.72E 33km M=3.6
1.3 0.05 0.08 R
Rsd 0.5s 9ph/6stn Dmin 175km Az.gap 303°
Corr. 0.253 5M/5stn Msd 0.3

01/12554
SEP 12 071212.5s 36.88S 179.24W 33km M=3.8
1.0 0.11 0.08 R
Rsd 0.3s 7ph/4stn Dmin 232km Az.gap 339°
Corr. -0.539 3M/3stn Msd 0.2

01/12555
SEP 12 075135.0s 37.31S 179.24W 33km M=4.0
1.1 0.09 0.08 R
Rsd 0.5s 10ph/7stn Dmin 220km Az.gap 328°
Corr. -0.411 6M/5stn Msd 0.2 1↑

01/12557
SEP 12 092104.1s 37.19S 179.27W 33km M=3.8
1.0 0.08 0.07 R
Rsd 0.3s 9ph/6stn Dmin 220km Az.gap 327°
Corr. -0.349 4M/4stn Msd 0.1

01/12560
SEP 12 102843.4s 38.04S 176.02E 181km M=4.1
0.3 0.01 0.01 3
Rsd 0.2s 29ph/23stn Dmin 98km Az.gap 113°
Corr. 0.223 12M/9stn Msd 0.2 1↑

01/12563
SEP 12 112258.3s 35.90S 179.06W 33km M=3.5
0.5 0.08 0.07 R
Rsd 0.1s 8ph/6stn Dmin 302km Az.gap 348°
Corr. -0.853 3M/3stn Msd 0.3

01/12565
SEP 12 120030.3s 37.01S 177.11E 233km M=3.7
0.4 0.05 0.03 4
Rsd 0.2s 12ph/10stn Dmin 124km Az.gap 263°
Corr. -0.550 7M/7stn Msd 0.2

01/12571
SEP 12 181201.2s 39.68S 174.06E 243km M=3.7
0.7 0.03 0.04 6
Rsd 0.3s 28ph/24stn Dmin 40km Az.gap 138°
Corr. -0.439 8M/8stn Msd 0.2 1↑ 1↓

01/12575
SEP 12 210323.5s 36.32S 179.14W 33km M=3.8
0.5 0.07 0.05 R
Rsd 0.2s 7ph/5stn Dmin 269km Az.gap 345°
Corr. -0.751 3M/3stn Msd 0.3

01/12578
SEP 12 214348.5s 36.86S 178.95W 33km M=4.0
0.7 0.06 0.06 R
Rsd 0.3s 10ph/7stn Dmin 258km Az.gap 336°
Corr. -0.430 5M/5stn Msd 0.2

01/12579
SEP 12 215012.9s 36.66S 179.15W 33km M=3.9
0.3 0.03 0.02 R
Rsd 0.1s 7ph/5stn Dmin 249km Az.gap 341°
Corr. -0.413 3M/3stn Msd 0.1

01/12581
SEP 12 221654.0s 36.64S 179.54W 33km M=3.6
1.1 0.19 0.15 R
Rsd 0.4s 5ph/3stn Dmin 220km Az.gap 350°
Corr. -0.822 3M/3stn Msd 0.3

01/12584
SEP 12 234742.0s 36.53S 179.19W 33km M=3.5
0.5 0.10 0.07 R
Rsd 0.1s 5ph/3stn Dmin 253km Az.gap 351°
Corr. -0.883 3M/3stn Msd 0.2

01/12589
SEP 13 014435.1s 36.83S 179.39W 33km M=4.1
0.7 0.04 0.05 R
Rsd 0.2s 12ph/7stn Dmin 222km Az.gap 310°
Corr. -0.073 8M/8stn Msd 0.2

01/12602
SEP 13 051828.8s 37.15S 179.08W 33km M=3.7
1.1 0.09 0.08 R
Rsd 0.4s 7ph/5stn Dmin 237km Az.gap 331°
Corr. -0.424 4M/4stn Msd 0.2

01/12603
SEP 13 060208.0s 36.72S 178.80W 33km M=4.2
0.7 0.08 0.05 R
Rsd 0.2s 12ph/8stn Dmin 276km Az.gap 335°
Corr. -0.402 12M/10stn Msd 0.2

01/12606
SEP 13 065745.0s 36.46S 178.97W 33km M=4.2
0.6 0.04 0.03 R
Rsd 0.3s 10ph/6stn Dmin 274km Az.gap 319°
Corr. 0.041 7M/5stn Msd 0.2

01/12607
SEP 13 075159.9s 36.43S 178.95W 33km M=4.1
0.4 0.03 0.03 R
Rsd 0.2s 11ph/7stn Dmin 277km Az.gap 317°
Corr. -0.116 7M/6stn Msd 0.2

01/12608
SEP 13 080820.6s 36.57S 178.87W 33km M=4.0
0.4 0.04 0.04 R
Rsd 0.2s 12ph/9stn Dmin 276km Az.gap 315°
Corr. -0.332 6M/6stn Msd 0.2

01/12613
SEP 13 094939.4s 39.21S 174.87E 218km M=3.9
0.3 0.02 0.01 3
Rsd 0.2s 29ph/23stn Dmin 49km Az.gap 149°
Corr. 0.155 10M/10stn Msd 0.2 2↑ 2↓

01/12619
SEP 13 120841.8s 36.86S 179.12W 33km M=3.9
1.0 0.08 0.07 R
Rsd 0.3s 11ph/7stn Dmin 243km Az.gap 334°
Corr. -0.111 4M/4stn Msd 0.2

01/12621
SEP 13 141127.3s 36.71S 179.21W 33km M=3.7
0.6 0.08 0.05 R
Rsd 0.2s 6ph/4stn Dmin 271km Az.gap 345°
Corr. -0.667 2M/2stn Msd 0.3

01/12622
SEP 13 144541.2s 36.56S 178.82W 33km M=3.5
0.1 0.01 0.01 R
Rsd 0.0s 4ph/3stn Dmin 309km Az.gap 346°
Corr. -0.809 1M/1stn Msd N.D.

01/12623
SEP 13 145221.3s 37.16S 178.97E 76km M=4.9
0.5 0.03 0.03 8
Rsd 0.2s 30ph/24stn Dmin 119km Az.gap 289°
Corr. 0.626 12M/6stn Msd 0.2 8↑ 6↓

01/12630
SEP 13 162854.1s 37.67S 177.48E 66km M=3.7
0.3 0.02 0.01 4
Rsd 0.2s 25ph/21stn Dmin 30km Az.gap 180°
Corr. 0.418 8M/6stn Msd 0.2 1↓

01/12652
SEP 13 223418.2s 36.71S 179.29W 33km M=4.9
0.6 0.04 0.04 R
Rsd 0.3s 18ph/14stn Dmin 265km Az.gap 311°
Corr. 0.039 20M/10stn Msd 0.2

01/12655
SEP 14 001823.4s 37.46S 176.64E 293km M=3.8
0.0 0.00 0.00 0
Rsd 0.0s 4ph/3stn Dmin 98km Az.gap 306°
Corr. -0.999 5M/5stn Msd 0.1 1↑

01/12660
SEP 14 022830.3s 38.30S 176.06E 148km M=3.6
0.4 0.02 0.01 4
Rsd 0.2s 12ph/9stn Dmin 80km Az.gap 121°
Corr. -0.017 9M/9stn Msd 0.4 1↑

01/12669
SEP 14 143647.9s 37.53S 179.36W 33km M=3.9
0.8 0.08 0.06 R
Rsd 0.3s 6ph/3stn Dmin 219km Az.gap 343°
Corr. -0.340 2M/2stn Msd 0.2

01/12677
SEP 14 194809.6s 36.58S 178.93W 33km M=3.8
1.1 0.18 0.10 R
Rsd 0.3s 5ph/3stn Dmin 299km Az.gap 346°
Corr. -0.801 2M/2stn Msd 0.3

01/12678
SEP 14 201335.4s 37.31S 179.16W 33km M=3.9
0.8 0.07 0.06 R
Rsd 0.4s 8ph/4stn Dmin 243km Az.gap 338°
Corr. -0.441 3M/3stn Msd 0.2

01/12681
SEP 14 225550.8s 37.85S 179.01W 33km M=3.8
1.6 1.44 0.20 R
Rsd 0.5s 6ph/2stn Dmin 241km Az.gap 358°
Corr. -0.891 2M/2stn Msd 0.2

01/12686
SEP 15 042933.1s 37.01S 178.59W 33km M=4.1
1.4 0.11 0.10 R
Rsd 0.4s 7ph/5stn Dmin 303km Az.gap 337°
Corr. -0.519 6M/4stn Msd 0.2

01/12692
SEP 15 085538.7s 35.41S 178.95E 33km M=3.6
0.6 0.04 0.05 R
Rsd 0.2s 5ph/3stn Dmin 302km Az.gap 335°
Corr. -0.290 2M/2stn Msd 0.1

01/12695
SEP 15 100148.6s 36.74S 179.32W 33km M=4.2
0.6 0.04 0.04 R
Rsd 0.3s 12ph/7stn Dmin 261km Az.gap 313°
Corr. 0.045 6M/5stn Msd 0.2

01/12696
SEP 15 103417.9s 37.12S 179.00W 33km M=3.9
0.7 0.06 0.05 R
Rsd 0.3s 10ph/6stn Dmin 265km Az.gap 336°
Corr. -0.453 5M/5stn Msd 0.3

01/12700
SEP 15 123903.3s 36.38S 178.56E 161km M=3.6
0.8 0.15 0.08 19
Rsd 0.3s 5ph/3stn Dmin 190km Az.gap 337°
Corr. -0.220 2M/2stn Msd 0.1

01/12705
SEP 15 163543.2s 37.03S 178.97W 33km M=3.7
1.0 0.10 0.09 R
Rsd 0.3s 5ph/3stn Dmin 270km Az.gap 341°
Corr. -0.672 3M/3stn Msd 0.2

01/12707
SEP 15 183249.5s 36.89S 178.89W 33km M=4.4
0.5 0.05 0.04 R
Rsd 0.2s 7ph/4stn Dmin 285km Az.gap 345°
Corr. -0.601 4M/2stn Msd 0.1

01/12723
SEP 16 054931.7s 37.52S 179.30W 33km M=3.6
0.8 0.10 0.03 R
Rsd 0.2s 5ph/3stn Dmin 223km Az.gap 343°
Corr. -0.062 2M/2stn Msd 0.2

01/12731
SEP 16 082624.6s 36.95S 179.11W 33km M=3.7
0.4 0.04 0.03 R
Rsd 0.1s 6ph/4stn Dmin 264km Az.gap 342°
Corr. -0.476 2M/2stn Msd 0.2

01/12739
SEP 16 134734.3s 37.09S 179.14W 33km M=3.9
0.6 0.09 0.05 R
Rsd 0.2s 7ph/4stn Dmin 255km Az.gap 344°
Corr. -0.577 2M/2stn Msd 0.2

01/12748
SEP 16 171716.5s 36.47S 178.10E 220km M=3.8
1.1 0.12 0.08 9
Rsd 0.4s 9ph/7stn Dmin 179km Az.gap 320°
Corr. -0.278 2M/2stn Msd 0.3 1↑

01/12753
SEP 16 192929.2s 44.56S 167.12E 5km M=3.6
0.6 0.03 0.03 R
Rsd 0.4s 11ph/7stn Dmin 65km Az.gap 233°
Corr. -0.631 11M/7stn Msd 0.3 1↑ 1↓

01/12755
SEP 16 202823.7s 38.53S 175.61E 206km M=3.6
0.1 0.03 0.08 1
Rsd 0.0s 11ph/10stn Dmin 53km Az.gap 336°
Corr. -0.874 2M/2stn Msd 0.0

01/12757
SEP 16 205920.0s 36.54S 178.94W 33km M=4.4
0.7 0.05 0.04 R
Rsd 0.3s 11ph/6stn Dmin 301km Az.gap 316°
Corr. 0.129 9M/5stn Msd 0.2

01/12758
SEP 16 214813.5s 37.16S 179.12W 33km M=3.7
0.9 0.13 0.06 R
Rsd 0.3s 5ph/3stn Dmin 253km Az.gap 344°
Corr. -0.508 1M/1stn Msd N.D.

01/12759
SEP 16 215556.8s 37.07S 179.51W 33km M=4.0
1.5 0.08 0.10 R
Rsd 0.7s 10ph/6stn Dmin 226km Az.gap 310°
Corr. -0.096 4M/4stn Msd 0.2

01/12760
SEP 16 221305.0s 40.76S 173.14E 151km M=3.6
0.4 0.02 0.02 3
Rsd 0.3s 24ph/17stn Dmin 52km Az.gap 150°
Corr. -0.311 5M/5stn Msd 0.3 3↑ 2↓

01/12761
SEP 16 223311.1s 45.13S 167.47E 122km M=4.1
0.5 0.02 0.02 3
Rsd 0.3s 14ph/8stn Dmin 45km Az.gap 183°
Corr. -0.190 8M/5stn Msd 0.1 1↑ 1↓

01/12771
SEP 17 062116.1s 37.14S 179.28W 33km M=3.6
0.9 0.12 0.05 R
Rsd 0.2s 5ph/3stn Dmin 241km Az.gap 343°
Corr. -0.422 1M/1stn Msd N.D.

01/12775
SEP 17 140955.7s 36.66S 178.73W 33km M=3.7
0.5 0.08 0.04 R
Rsd 0.1s 5ph/3stn Dmin 310km Az.gap 346°
Corr. -0.714 2M/2stn Msd 0.1

01/12780
SEP 17 154111.2s 36.73S 179.09W 33km M=3.6
0.2 0.03 0.02 R
Rsd 0.1s 7ph/5stn Dmin 278km Az.gap 345°
Corr. -0.641 2M/2stn Msd 0.2

01/12785
SEP 17 184417.5s 38.07S 175.95E 185km M=4.1
0.4 0.04 0.02 3
Rsd 0.2s 15ph/12stn Dmin 104km Az.gap 232°
Corr. -0.621 10M/8stn Msd 0.2 1↓

01/12786
SEP 17 210213.5s 36.52S 179.14W 33km M=4.5
0.7 0.05 0.04 R
Rsd 0.2s 10ph/6stn Dmin 288km Az.gap 314°
Corr. 0.177 11M/7stn Msd 0.3

01/12788
SEP 18 003958.6s 36.50S 179.25W 33km M=4.0
0.9 0.07 0.06 R
Rsd 0.4s 8ph/5stn Dmin 282km Az.gap 318°
Corr. -0.034 3M/3stn Msd 0.2

01/12789
SEP 18 005711.7s 45.18S 167.48E 136km M=3.7
0.5 0.03 0.02 4
Rsd 0.3s 11ph/6stn Dmin 41km Az.gap 175°
Corr. -0.231 7M/6stn Msd 0.3 1↑

01/12797
SEP 18 065043.8s 36.56S 179.29W 33km M=4.7
0.5 0.03 0.03 R
Rsd 0.2s 12ph/8stn Dmin 274km Az.gap 313°
Corr. -0.093 10M/6stn Msd 0.2

01/12806
SEP 18 095838.7s 36.99S 179.07W 33km M=3.9
0.5 0.05 0.05 R
Rsd 0.2s 9ph/5stn Dmin 265km Az.gap 341°
Corr. -0.592 3M/3stn Msd 0.2

01/12812
SEP 18 130227.8s 36.87S 178.74W 33km M=4.2
1.0 0.12 0.06 R
Rsd 0.3s 11ph/7stn Dmin 298km Az.gap 340°
Corr. -0.500 7M/5stn Msd 0.2

01/12813
SEP 18 131319.2s 36.12S 179.17W 33km M=4.1
0.3 0.05 0.04 R
Rsd 0.1s 5ph/3stn Dmin 315km Az.gap 347°
Corr. -0.823 2M/2stn Msd 0.2

01/12816
SEP 18 143751.3s 37.26S 177.29E 149km M=4.5
0.2 0.02 0.01 2
Rsd 0.1s 26ph/23stn Dmin 31km Az.gap 205°
Corr. 0.766 14M/10stn Msd 0.2 1↑

01/12818
SEP 18 165225.1s 45.14S 167.52E 117km M=3.6
0.5 0.02 0.02 4
Rsd 0.3s 12ph/7stn Dmin 46km Az.gap 174°
Corr. -0.168 10M/7stn Msd 0.2 2↑ 1↓

01/12829
SEP 19 020533.5s 42.08S 173.17E 10km M=3.6
0.1 0.01 0.01 1
Rsd 0.3s 35ph/24stn Dmin 1km Az.gap 73°
Corr. 0.035 14M/7stn Msd 0.2 4↑ 2↓

01/12847
SEP 19 140645.0s 37.34S 179.19W 33km M=3.7
0.5 0.05 0.03 R
Rsd 0.2s 9ph/6stn Dmin 240km Az.gap 337°
Corr. -0.117 2M/2stn Msd 0.2

01/12856
SEP 19 174123.5s 34.68S 179.22W 33km M=4.6
1.4 0.06 0.11 R
Rsd 0.4s 13ph/11stn Dmin 439km Az.gap 327°
Corr. -0.057 8M/6stn Msd 0.3

01/12857
SEP 19 185952.1s 36.65S 179.09W 33km M=4.4
0.8 0.05 0.05 R
Rsd 0.4s 9ph/5stn Dmin 283km Az.gap 318°
Corr. -0.063 6M/4stn Msd 0.2

01/12867
SEP 19 225127.5s 36.99S 178.88W 33km M=3.7
0.3 0.04 0.02 R
Rsd 0.1s 6ph/4stn Dmin 280km Az.gap 345°
Corr. -0.592 2M/2stn Msd 0.2

01/12871
SEP 20 002044.6s 40.45S 174.62E 58km M=3.6
0.2 0.01 0.01 4
Rsd 0.2s 34ph/30stn Dmin 52km Az.gap 78°
Corr. -0.212 13M/9stn Msd 0.3 1↑ 1↓

01/12880
SEP 20 102832.6s 39.22S 175.42E 207km M=3.6
0.6 0.04 0.07 4
Rsd 0.3s 14ph/10stn Dmin 11km Az.gap 167°
Corr. -0.641 8M/8stn Msd 0.3 1↑

01/12896
SEP 20 191318.1s 36.43S 179.12W 33km M=3.7
0.5 0.12 0.09 R
Rsd 0.1s 4ph/2stn Dmin 296km Az.gap 354°
Corr. -0.915 2M/2stn Msd 0.3

01/12905
SEP 21 030136.2s 38.51S 176.15E 128km M=4.0
0.3 0.02 0.01 3
Rsd 0.2s 19ph/15stn Dmin 76km Az.gap 162°
Corr. -0.470 8M/7stn Msd 0.3 4↑ 1↓

01/12906
SEP 21 041645.2s 37.22S 176.83E 200km M=4.1
0.3 0.02 0.02 3
Rsd 0.2s 17ph/14stn Dmin 112km Az.gap 191°
Corr. 0.362 9M/7stn Msd 0.2 1↑ 1↓

01/12927
SEP 21 130359.8s 37.10S 177.40E 129km M=4.2
0.5 0.03 0.02 5
Rsd 0.3s 15ph/13stn Dmin 131km Az.gap 221°
Corr. 0.515 9M/7stn Msd 0.2

01/12928
SEP 21 132025.6s 36.44S 179.09W 33km M=3.9
0.8 0.07 0.06 R
Rsd 0.3s 8ph/6stn Dmin 296km Az.gap 320°
Corr. -0.486 3M/3stn Msd 0.2

01/12930
SEP 21 135230.9s 43.62S 169.84E 12km M=4.5
0.2 0.01 0.01 R
Rsd 0.2s 14ph/9stn Dmin 95km Az.gap 164°
Corr. -0.648 20M/11stn Msd 0.2 2↑ 2↓

01/12935
SEP 21 154731.7s 39.30S 174.65E 157km M=3.9
0.4 0.02 0.01 3
Rsd 0.2s 29ph/22stn Dmin 22km Az.gap 146°
Corr. -0.249 5M/5stn Msd 0.2 1↑ 2↓

01/12938
SEP 21 194529.5s 37.98S 176.36E 179km M=3.7
1.6 0.10 0.12 14
Rsd 0.7s 11ph/8stn Dmin 73km Az.gap 246°
Corr. -0.092 7M/7stn Msd 0.3 1↑

01/12939
SEP 21 210842.3s 39.24S 174.85E 191km M=3.6
0.4 0.04 0.08 4
Rsd 0.1s 14ph/12stn Dmin 60km Az.gap 222°
Corr. -0.777 5M/5stn Msd 0.3

01/12944
SEP 22 003801.9s 40.17S 176.58E 59km M=3.9
0.2 0.01 0.01 2
Rsd 0.2s 23ph/14stn Dmin 29km Az.gap 149°
Corr. -0.393 8M/5stn Msd 0.1 1↑

01/12946
SEP 22 023006.4s 37.54S 175.73E 263km M=4.3
0.2 0.02 0.02 2
Rsd 0.1s 11ph/8stn Dmin 145km Az.gap 251°
Corr. -0.695 7M/7stn Msd 0.2

01/12954
SEP 22 062831.2s 37.11S 178.73W 33km M=4.0
1.0 0.15 0.06 R
Rsd 0.3s 5ph/3stn Dmin 287km Az.gap 345°
Corr. -0.440 1M/1stn Msd N.D.

01/12956
SEP 22 083652.3s 36.75S 178.81W 33km M=3.8
0.4 0.07 0.04 R
Rsd 0.1s 5ph/3stn Dmin 299km Az.gap 346°
Corr. -0.765 2M/2stn Msd 0.2

01/12957
SEP 22 091747.1s 36.73S 178.79W 33km M=4.5
0.7 0.08 0.06 R
Rsd 0.3s 10ph/6stn Dmin 301km Az.gap 338°
Corr. -0.612 5M/3stn Msd 0.1

01/12962
SEP 22 132803.1s 38.52S 175.89E 122km M=4.1
0.2 0.01 0.01 2
Rsd 0.2s 27ph/20stn Dmin 62km Az.gap 79°
Corr. 0.203 10M/8stn Msd 0.2 6↑ 4↓

01/12963
SEP 22 132858.4s 36.71S 178.56W 33km M=5.1
0.4 0.03 0.02 R
Rsd 0.1s 15ph/9stn Dmin 320km Az.gap 313°
Corr. 0.056 17M/9stn Msd 0.2

01/12964
SEP 22 133822.2s 37.29S 179.30W 33km M=4.1
0.1 0.01 0.00 R
Rsd 0.0s 7ph/4stn Dmin 232km Az.gap 343°
Corr. -0.468 2M/2stn Msd 0.1

01/12965
SEP 22 134802.5s 37.16S 179.29W 33km M=4.0
0.4 0.15 0.07 R
Rsd 0.1s 6ph/2stn Dmin 239km Az.gap 356°
Corr. -0.941 2M/2stn Msd 0.1

01/12967
SEP 22 135407.7s 37.01S 179.35W 33km M=4.4
0.6 0.04 0.04 R
Rsd 0.2s 10ph/6stn Dmin 242km Az.gap 309°
Corr. -0.226 11M/9stn Msd 0.2 1↑

01/12968
SEP 22 135427.3s 37.01S 179.37W 33km M=4.6
0.4 0.02 0.03 R
Rsd 0.1s 10ph/6stn Dmin 240km Az.gap 309°
Corr. -0.232 10M/8stn Msd 0.2

01/12969
SEP 22 135710.1s 37.66S 179.14W 33km M=4.1
0.4 0.06 0.04 R
Rsd 0.1s 5ph/4stn Dmin 233km Az.gap 349°
Corr. -0.871 2M/2stn Msd 0.1

01/12970
SEP 22 141128.6s 37.37S 179.30W 33km M=4.3
1.0 0.10 0.07 R
Rsd 0.4s 8ph/6stn Dmin 229km Az.gap 336°
Corr. -0.412 4M/2stn Msd 0.2

01/12972
SEP 22 154351.6s 37.73S 179.11W 33km M=4.0
0.3 0.06 0.02 R
Rsd 0.1s 6ph/3stn Dmin 235km Az.gap 349°
Corr. -0.570 2M/2stn Msd 0.0

01/12973
SEP 22 154413.6s 37.46S 178.82W 33km M=3.8
0.2 0.05 0.02 R
Rsd 0.1s 4ph/3stn Dmin 266km Az.gap 352°
Corr. -0.865 2M/2stn Msd 0.1

01/12974
SEP 22 163502.5s 36.98S 179.35W 33km M=4.5
0.3 0.02 0.02 R
Rsd 0.1s 18ph/13stn Dmin 244km Az.gap 309°
Corr. 0.013 17M/12stn Msd 0.2 1↑

01/12977
SEP 22 172339.8s 41.85S 171.82E 12km M=3.5
0.2 0.01 0.02 R
Rsd 0.4s 21ph/13stn Dmin 12km Az.gap 139°
Corr. 0.045 8M/4stn Msd 0.2 2↑ 1↓

01/12979
SEP 22 190334.3s 36.94S 179.37W 33km M=4.1
0.5 0.03 0.03 R
Rsd 0.2s 9ph/7stn Dmin 244km Az.gap 316°
Corr. -0.094 6M/4stn Msd 0.3

01/12980
SEP 22 194217.2s 36.92S 179.41W 33km M=4.0
0.4 0.06 0.03 R
Rsd 0.1s 5ph/3stn Dmin 242km Az.gap 344°
Corr. -0.689 1M/1stn Msd N.D.

01/12981
SEP 22 194320.6s 36.97S 179.44W 33km M=4.2
0.6 0.04 0.05 R
Rsd 0.3s 7ph/5stn Dmin 238km Az.gap 315°
Corr. -0.117 2M/2stn Msd 0.5

01/12982
SEP 22 203358.3s 37.24S 179.30W 33km M=4.0
0.4 0.05 0.02 R
Rsd 0.1s 5ph/3stn Dmin 235km Az.gap 343°
Corr. -0.430 2M/2stn Msd 0.2

01/12984
SEP 22 235752.6s 36.61S 179.69W 33km M=3.9
2.1 0.30 0.18 R
Rsd 0.5s 5ph/3stn Dmin 244km Az.gap 346°
Corr. -0.796 1M/1stn Msd N.D.

01/12990
SEP 23 050747.0s 36.70S 178.99W 33km M=4.2
0.8 0.05 0.05 R
Rsd 0.3s 8ph/5stn Dmin 287km Az.gap 320°
Corr. 0.080 4M/3stn Msd 0.2

01/12994
SEP 23 063727.4s 45.11S 167.44E 114km M=3.8
0.3 0.02 0.01 2
Rsd 0.2s 12ph/8stn Dmin 45km Az.gap 189°
Corr. -0.273 12M/9stn Msd 0.4 4↑ 1↓

01/12995
SEP 23 064610.4s 40.08S 174.71E 77km M=3.6
0.2 0.01 0.01 3
Rsd 0.2s 40ph/29stn Dmin 37km Az.gap 76°
Corr. -0.130 12M/11stn Msd 0.3 3↑ 3↓
Felt Wanganui (57).

01/12996
SEP 23 065627.8s 37.16S 179.34W 33km M=3.5
0.1 0.06 0.03 R
Rsd 0.0s 4ph/2stn Dmin 235km Az.gap 356°
Corr. -0.946 2M/2stn Msd 0.3

01/12997
SEP 23 072534.9s 47.45S 165.52E 33km M=3.7
0.6 0.04 0.03 R
Rsd 0.3s 12ph/7stn Dmin 208km Az.gap 317°
Corr. 0.191 6M/6stn Msd 0.3

01/12998
SEP 23 084912.6s 39.56S 174.16E 196km M=3.8
0.4 0.02 0.03 4
Rsd 0.1s 23ph/19stn Dmin 124km Az.gap 198°
Corr. -0.726 8M/8stn Msd 0.3

01/13000
SEP 23 094729.5s 36.32S 179.95W 33km M=3.8
1.2 0.14 0.13 R
Rsd 0.4s 6ph/4stn Dmin 252km Az.gap 344°
Corr. -0.660 2M/2stn Msd 0.6

01/13009
SEP 23 133549.5s 37.31S 179.30W 33km M=3.9
0.5 0.04 0.03 R
Rsd 0.2s 7ph/5stn Dmin 232km Az.gap 336°
Corr. 0.088 2M/2stn Msd 0.2

01/13012
SEP 23 144117.1s 36.54S 179.01W 33km M=4.4
0.6 0.04 0.04 R
Rsd 0.3s 11ph/7stn Dmin 296km Az.gap 314°
Corr. 0.048 10M/8stn Msd 0.2

01/13013
SEP 23 152047.9s 36.65S 178.76W 33km M=4.0
0.4 0.06 0.03 R
Rsd 0.1s 6ph/4stn Dmin 308km Az.gap 346°
Corr. -0.657 2M/2stn Msd 0.1

01/13017
SEP 23 175842.2s 44.47S 169.53E 12km M=3.6
0.2 0.01 0.01 R
Rsd 0.3s 17ph/10stn Dmin 29km Az.gap 133°
Corr. -0.425 14M/9stn Msd 0.3 1↑

01/13019
SEP 23 193255.2s 37.06S 179.12W 33km M=3.6
0.2 0.03 0.01 R
Rsd 0.1s 5ph/3stn Dmin 257km Az.gap 344°
Corr. -0.699 2M/2stn Msd 0.2

01/13022
SEP 23 202056.3s 36.72S 178.88W 33km M=4.1
0.3 0.04 0.02 R
Rsd 0.1s 6ph/4stn Dmin 295km Az.gap 346°
Corr. -0.607 2M/2stn Msd 0.2

01/13024
SEP 24 034048.1s 37.33S 179.27W 33km M=4.2
0.5 0.03 0.04 R
Rsd 0.2s 7ph/4stn Dmin 233km Az.gap 317°
Corr. -0.230 5M/3stn Msd 0.1

01/13025
SEP 24 044957.0s 40.42S 176.74E 37km M=5.6
0.1 0.01 0.01 4
Rsd 0.2s 44ph/39stn Dmin 45km Az.gap 193°
Corr. -0.321 12M/6stn Msd 0.1 18↑ 10↓
Felt widely in the central and lower North Island.

01/13033
SEP 24 052426.6s 40.44S 176.81E 41km M=4.4
0.1 0.01 0.01 2
Rsd 0.1s 34ph/28stn Dmin 45km Az.gap 196°
Corr. -0.569 12M/6stn Msd 0.3 5↑ 3↓

01/13038
SEP 24 062535.8s 36.45S 179.34E 33km M=3.7
0.7 0.03 0.04 R
Rsd 0.3s 7ph/4stn Dmin 205km Az.gap 305°
Corr. 0.372 3M/3stn Msd 0.2

01/13047
SEP 24 093431.6s 37.07S 179.20W 33km M=3.7
0.2 0.03 0.01 R
Rsd 0.1s 5ph/3stn Dmin 251km Az.gap 344°
Corr. -0.621 2M/2stn Msd 0.0

01/13051
SEP 24 133614.3s 37.40S 177.09E 33km M=3.5
0.5 0.03 0.02 R
Rsd 0.2s 9ph/6stn Dmin 96km Az.gap 268°
Corr. 0.006 4M/3stn Msd 0.3 1↑

01/13062
SEP 24 153619.9s 37.42S 177.54E 134km M=4.0
0.5 0.04 0.02 5
Rsd 0.3s 18ph/14stn Dmin 96km Az.gap 256°
Corr. -0.193 7M/5stn Msd 0.2 1↓

01/13073
SEP 24 201419.9s 45.61S 166.97E 87km M=3.7
0.2 0.01 0.02 2
Rsd 0.1s 14ph/8stn Dmin 21km Az.gap 248°
Corr. -0.167 14M/8stn Msd 0.2 3↑ 5↓

01/13077
SEP 25 002339.6s 36.95S 179.25W 33km M=4.1
0.2 0.04 0.02 R
Rsd 0.1s 5ph/3stn Dmin 253km Az.gap 344°
Corr. -0.728 2M/2stn Msd 0.1

01/13078
SEP 25 015614.6s 36.90S 179.38W 33km M=4.3
0.4 0.03 0.03 R
Rsd 0.2s 12ph/8stn Dmin 247km Az.gap 310°
Corr. 0.089 7M/5stn Msd 0.2

01/13079
SEP 25 021038.3s 36.88S 179.31W 33km M=4.4
0.8 0.05 0.06 R
Rsd 0.3s 10ph/7stn Dmin 253km Az.gap 311°
Corr. -0.194 6M/4stn Msd 0.2

01/13081
SEP 25 050649.6s 40.14S 174.90E 25km M=3.8
0.3 0.01 0.02 3
Rsd 0.4s 43ph/38stn Dmin 38km Az.gap 84°
Corr. 0.056 15M/9stn Msd 0.2 4↑ 1↓
Felt Wanganui (57).

01/13084
SEP 25 054711.8s 36.42S 178.96W 33km M=4.3
0.7 0.05 0.04 R
Rsd 0.3s 10ph/7stn Dmin 308km Az.gap 316°
Corr. -0.058 10M/6stn Msd 0.2

01/13088
SEP 25 073218.5s 36.71S 179.10W 33km M=3.7
0.3 0.05 0.03 R
Rsd 0.1s 7ph/4stn Dmin 279km Az.gap 345°
Corr. -0.782 2M/2stn Msd 0.2

01/13098
SEP 25 132816.3s 37.06S 179.60W 33km M=3.9
0.8 0.04 0.06 R
Rsd 0.3s 11ph/7stn Dmin 220km Az.gap 308°
Corr. -0.131 5M/4stn Msd 0.3 1↓

01/13109
SEP 25 205916.5s 37.28S 179.32W 33km M=4.0
0.1 0.01 0.01 R
Rsd 0.0s 5ph/3stn Dmin 231km Az.gap 343°
Corr. -0.248 2M/2stn Msd 0.2

01/13112
SEP 25 224008.2s 39.85S 174.18E 123km M=3.6
0.3 0.01 0.01 3
Rsd 0.2s 45ph/34stn Dmin 58km Az.gap 107°
Corr. -0.246 8M/4stn Msd 0.2 11↑ 1↓

01/13114
SEP 25 224827.6s 37.09S 177.09E 217km M=3.8
0.7 0.07 0.05 4
Rsd 0.2s 11ph/10stn Dmin 129km Az.gap 318°
Corr. -0.132 3M/3stn Msd 0.1

01/13116
SEP 26 011418.5s 36.58S 178.92W 33km M=4.2
0.5 0.08 0.05 R
Rsd 0.2s 5ph/3stn Dmin 299km Az.gap 346°
Corr. -0.715 1M/1stn Msd N.D.

01/13126
SEP 26 085832.8s 36.91S 179.46W 33km M=4.4
0.5 0.02 0.03 R
Rsd 0.1s 17ph/11stn Dmin 240km Az.gap 308°
Corr. 0.426 12M/10stn Msd 0.3

01/13132
SEP 26 132147.7s 38.04S 176.30E 187km M=3.6
0.9 0.06 0.04 6
Rsd 0.3s 9ph/8stn Dmin 75km Az.gap 257°
Corr. -0.222 5M/5stn Msd 0.2

01/13133
SEP 26 141223.8s 38.30S 177.64E 65km M=3.6
0.2 0.01 0.01 2
Rsd 0.1s 20ph/15stn Dmin 47km Az.gap 140°
Corr. 0.363 9M/7stn Msd 0.2 4↑ 1↓

01/13137
SEP 26 164906.4s 37.04S 179.06W 33km M=3.9
0.3 0.04 0.02 R
Rsd 0.1s 10ph/6stn Dmin 263km Az.gap 341°
Corr. -0.558 5M/5stn Msd 0.1

01/13138
SEP 26 165417.4s 36.79S 179.33W 33km M=3.8
0.9 0.05 0.06 R
Rsd 0.4s 10ph/5stn Dmin 257km Az.gap 310°
Corr. 0.057 5M/5stn Msd 0.2

01/13139
SEP 26 165637.1s 37.19S 179.12W 33km M=3.7
0.7 0.05 0.05 R
Rsd 0.2s 6ph/5stn Dmin 348km Az.gap 339°
Corr. -0.529 3M/3stn Msd 0.1

01/13141
SEP 26 172222.3s 38.62S 175.83E 142km M=3.6
0.4 0.02 0.02 3
Rsd 0.2s 16ph/11stn Dmin 50km Az.gap 203°
Corr. -0.489 8M/8stn Msd 0.1 3↑ 4↓

01/13148
SEP 26 200102.7s 40.47S 176.79E 38km M=3.8
0.1 0.01 0.01 4
Rsd 0.1s 32ph/26stn Dmin 49km Az.gap 201°
Corr. -0.476 15M/10stn Msd 0.3 2↑ 1↓

01/13149
SEP 26 201550.0s 36.22S 179.14W 33km M=3.9
0.6 0.07 0.06 R
Rsd 0.2s 5ph/3stn Dmin 309km Az.gap 346°
Corr. -0.709 2M/2stn Msd 0.1

01/13155
SEP 26 232119.5s 37.83S 176.20E 203km M=4.5
0.2 0.01 0.01 2
Rsd 0.1s 30ph/24stn Dmin 63km Az.gap 119°
Corr. 0.356 11M/6stn Msd 0.2 6↑ 5↓

01/13169
SEP 27 085623.9s 37.28S 178.57W 33km M=4.2
1.5 0.09 0.11 R
Rsd 0.6s 8ph/6stn Dmin 293km Az.gap 308°
Corr. -0.406 6M/4stn Msd 0.2

01/13174
SEP 27 141206.7s 36.44S 179.14W 33km M=4.0
0.9 0.06 0.07 R
Rsd 0.3s 6ph/4stn Dmin 294km Az.gap 319°
Corr. -0.270 3M/3stn Msd 0.2

01/13176
SEP 27 162729.1s 37.84S 179.17E 12km M=3.8
0.6 0.05 0.03 R
Rsd 0.2s 17ph/11stn Dmin 84km Az.gap 289°
Corr. -0.264 15M/13stn Msd 0.3 1↑ 1↓

01/13177
SEP 27 163459.9s 37.09S 177.25E 190km M=3.5
1.0 0.10 0.08 6
Rsd 0.4s 7ph/5stn Dmin 130km Az.gap 315°
Corr. -0.411 1M/1stn Msd N.D.

01/13186
SEP 27 214523.7s 38.12S 176.34E 156km M=3.9
0.2 0.01 0.01 2
Rsd 0.1s 15ph/11stn Dmin 69km Az.gap 123°
Corr. 0.006 12M/8stn Msd 0.2 3↑ 2↓

01/13188
SEP 27 230143.3s 38.93S 177.94E 12km M=4.0
0.5 0.02 0.03 R
Rsd 0.4s 14ph/10stn Dmin 25km Az.gap 202°
Corr. -0.726 19M/14stn Msd 0.3 1↑ 1↓

01/13192
SEP 28 005954.9s 40.24S 176.86E 56km M=3.7
0.2 0.01 0.02 2
Rsd 0.2s 33ph/26stn Dmin 23km Az.gap 193°
Corr. -0.553 14M/10stn Msd 0.3 1↑

01/13204
SEP 28 071453.1s 36.95S 178.72W 33km M=4.2
0.8 0.11 0.06 R
Rsd 0.2s 11ph/6stn Dmin 295km Az.gap 331°
Corr. -0.650 6M/5stn Msd 0.1

01/13221
SEP 28 124036.0s 37.06S 179.32W 33km M=4.2
0.2 0.02 0.01 R
Rsd 0.1s 13ph/9stn Dmin 242km Az.gap 311°
Corr. -0.229 6M/4stn Msd 0.2

01/13222
SEP 28 133634.7s 37.36S 179.39W 33km M=4.2
0.6 0.06 0.04 R
Rsd 0.2s 12ph/7stn Dmin 222km Az.gap 308°
Corr. -0.389 12M/8stn Msd 0.2

01/13226
SEP 28 154313.3s 36.42S 179.41W 33km M=4.3
0.5 0.03 0.03 R
Rsd 0.2s 14ph/10stn Dmin 277km Az.gap 313°
Corr. 0.140 12M/10stn Msd 0.1

01/13227
SEP 28 155900.2s 37.39S 179.05W 33km M=3.9
0.5 0.04 0.03 R
Rsd 0.2s 10ph/6stn Dmin 249km Az.gap 336°
Corr. -0.143 3M/3stn Msd 0.2

01/13237
SEP 28 231016.3s 38.87S 175.41E 203km M=3.8
1.2 0.05 0.05 10
Rsd 0.3s 10ph/8stn Dmin 19km Az.gap 198°
Corr. -0.497 8M/8stn Msd 0.2

01/13239
SEP 29 001907.6s 36.50S 179.17W 33km M=3.8
0.2 0.04 0.03 R
Rsd 0.1s 6ph/3stn Dmin 287km Az.gap 354°
Corr. -0.906 2M/2stn Msd 0.3

01/13253
SEP 29 034617.3s 35.27S 177.67E 33km M=4.6
0.6 0.03 0.06 R
Rsd 0.1s 6ph/4stn Dmin 316km Az.gap 343°
Corr. -0.388 2M/2stn Msd 0.2

01/13256
SEP 29 043436.0s 38.69S 175.40E 181km M=3.5
0.2 0.01 0.04 2
Rsd 0.1s 16ph/13stn Dmin 36km Az.gap 300°
Corr. 0.149 4M/4stn Msd 0.1 1↑ 2↓

01/13266
SEP 29 080235.5s 39.71S 173.64E 9km M=3.5
0.2 0.01 0.02 2
Rsd 0.2s 32ph/27stn Dmin 48km Az.gap 158°
Corr. -0.642 9M/6stn Msd 0.1 1↑

01/13268
SEP 29 080343.8s 39.71S 173.67E 5km M=3.8
0.2 0.01 0.02 R
Rsd 0.2s 30ph/24stn Dmin 47km Az.gap 203°
Corr. -0.465 15M/13stn Msd 0.4 1↑ 2↓

01/13280
SEP 29 113442.5s 40.49S 176.82E 35km M=3.8
0.2 0.01 0.02 7
Rsd 0.1s 26ph/20stn Dmin 51km Az.gap 219°
Corr. -0.364 8M/4stn Msd 0.3 3↑ 2↓

01/13286
SEP 29 132454.1s 39.70S 173.64E 12km M=3.9
0.2 0.01 0.02 2
Rsd 0.2s 43ph/33stn Dmin 47km Az.gap 158°
Corr. -0.598 19M/10stn Msd 0.2 4↑ 2↓

01/13293
SEP 29 143840.9s 40.24S 173.52E 157km M=3.6
0.3 0.01 0.01 3
Rsd 0.2s 40ph/31stn Dmin 72km Az.gap 147°
Corr. -0.136 6M/6stn Msd 0.2 1↑ 2↓

01/13297
SEP 29 190631.1s 36.88S 179.20W 33km M=4.8
0.6 0.04 0.04 R
Rsd 0.3s 13ph/9stn Dmin 262km Az.gap 311°
Corr. -0.139 13M/7stn Msd 0.2

01/13308
SEP 30 042633.7s 38.12S 176.50E 143km M=3.6
0.8 0.04 0.03 6
Rsd 0.3s 7ph/5stn Dmin 56km Az.gap 253°
Corr. 0.069 1M/1stn Msd N.D.

01/13309
SEP 30 043432.7s 37.23S 179.47W 33km M=3.9
0.4 0.05 0.03 R
Rsd 0.1s 6ph/4stn Dmin 221km Az.gap 343°
Corr. -0.344 2M/2stn Msd 0.3

01/13312
SEP 30 063712.8s 41.16S 172.64E 213km M=3.7
0.2 0.01 0.01 2
Rsd 0.1s 22ph/17stn Dmin 38km Az.gap 184°
Corr. 0.040 4M/4stn Msd 0.2 3↑ 1↓

01/13335
SEP 30 183247.3s 37.24S 179.29W 33km M=3.6
0.3 0.05 0.02 R
Rsd 0.1s 5ph/3stn Dmin 236km Az.gap 343°
Corr. -0.465 2M/2stn Msd 0.1

01/13342
SEP 30 205006.7s 36.01S 179.02W 33km M=4.2
0.2 0.01 0.01 R
Rsd 0.0s 11ph/7stn Dmin 333km Az.gap 319°
Corr. 0.014 7M/7stn Msd 0.3

01/13345
SEP 30 211332.3s 36.15S 178.89W 33km M=3.9
0.6 0.07 0.07 R
Rsd 0.2s 7ph/5stn Dmin 331km Az.gap 343°
Corr. -0.739 2M/2stn Msd 0.2

01/13355
OCT 01 042733.5s 39.23S 174.95E 25km M=3.8
0.0 0.00 0.00 1
Rsd 0.1s 35ph/31stn Dmin 43km Az.gap 79°
Corr. -0.296 15M/8stn Msd 0.1 3↑ 2↓

01/13371
OCT 01 145205.2s 41.21S 172.74E 175km M=3.6
0.4 0.02 0.02 3
Rsd 0.3s 29ph/20stn Dmin 46km Az.gap 106°
Corr. -0.181 10M/9stn Msd 0.2 6↑ 1↓

01/13378
OCT 01 204437.1s 40.41S 175.10E 58km M=3.6
0.2 0.00 0.01 6
Rsd 0.2s 36ph/31stn Dmin 53km Az.gap 121°
Corr. -0.254 11M/9stn Msd 0.3 1↑

01/13380
OCT 01 214238.1s 37.29S 179.22W 33km M=4.1
0.9 0.10 0.04 R
Rsd 0.3s 10ph/8stn Dmin 239km Az.gap 337°
Corr. -0.073 6M/5stn Msd 0.2

01/13382
OCT 01 222304.2s 36.04S 178.89W 33km M=3.6
0.5 0.11 0.09 R
Rsd 0.1s 5ph/3stn Dmin 339km Az.gap 353°
Corr. -0.918 3M/3stn Msd 0.3

01/13387
OCT 02 002458.0s 41.31S 172.76E 144km M=3.7
0.4 0.02 0.02 3
Rsd 0.4s 37ph/25stn Dmin 52km Az.gap 102°
Corr. -0.197 13M/10stn Msd 0.2 1↑

01/13388
OCT 02 014430.1s 37.73S 177.56E 33km M=3.8
0.2 0.02 0.01 2
Rsd 0.2s 27ph/22stn Dmin 39km Az.gap 178°
Corr. 0.155 26M/22stn Msd 0.2 2↑ 5↓

01/13389
OCT 02 035446.6s 40.44S 176.81E 43km M=3.7
0.1 0.01 0.01 2
Rsd 0.2s 34ph/26stn Dmin 45km Az.gap 201°
Corr. -0.515 17M/12stn Msd 0.2 1↓

01/13393
OCT 02 054708.5s 36.97S 178.87W 33km M=3.9
0.5 0.06 0.06 R
Rsd 0.1s 5ph/4stn Dmin 282km Az.gap 345°
Corr. -0.791 2M/2stn Msd 0.2

01/13397
OCT 02 081951.7s 36.77S 179.04W 33km M=3.7
0.4 0.06 0.04 R
Rsd 0.1s 8ph/5stn Dmin 280km Az.gap 345°
Corr. -0.680 5M/5stn Msd 0.2

01/13401
OCT 02 090207.2s 37.25S 176.75E 258km M=4.3
0.6 0.05 0.03 4
Rsd 0.2s 15ph/13stn Dmin 117km Az.gap 264°
Corr. -0.276 10M/10stn Msd 0.3 1↑

01/13406
OCT 02 102337.5s 37.60S 179.47W 33km M=3.7
0.2 0.03 0.01 R
Rsd 0.1s 6ph/4stn Dmin 207km Az.gap 342°
Corr. -0.159 2M/2stn Msd 0.2

01/13408
OCT 02 123042.9s 37.53S 179.67W 33km M=3.5
0.4 0.08 0.04 R
Rsd 0.1s 7ph/4stn Dmin 192km Az.gap 352°
Corr. -0.775 4M/4stn Msd 0.2

01/13409
OCT 02 133210.0s 37.61S 179.51W 33km M=3.5
0.4 0.04 0.02 R
Rsd 0.1s 8ph/5stn Dmin 203km Az.gap 342°
Corr. -0.219 4M/4stn Msd 0.2

01/13415
OCT 02 160525.7s 36.64S 179.06W 33km M=4.1
0.7 0.04 0.05 R
Rsd 0.2s 12ph/9stn Dmin 286km Az.gap 313°
Corr. -0.165 14M/13stn Msd 0.2

01/13417
OCT 02 164742.3s 37.40S 179.19W 33km M=3.6
0.3 0.04 0.02 R
Rsd 0.1s 8ph/5stn Dmin 237km Az.gap 344°
Corr. -0.351 5M/5stn Msd 0.3

01/13439
OCT 03 064833.2s 37.04S 178.92W 33km M=3.8
0.5 0.08 0.04 R
Rsd 0.1s 8ph/5stn Dmin 274km Az.gap 345°
Corr. -0.661 5M/5stn Msd 0.2

01/13446
OCT 03 092555.8s 37.31S 178.36E 77km M=3.7
0.4 0.02 0.02 6
Rsd 0.2s 9ph/4stn Dmin 86km Az.gap 262°
Corr. 0.254 3M/2stn Msd 0.1 1↑

01/13468
OCT 03 224005.3s 36.67S 179.28W 33km M=4.0
0.6 0.04 0.04 R
Rsd 0.2s 10ph/6stn Dmin 268km Az.gap 317°
Corr. 0.109 11M/10stn Msd 0.2

01/13471
OCT 04 022236.8s 37.44S 179.24W 33km M=3.8
0.7 0.06 0.05 R
Rsd 0.3s 9ph/5stn Dmin 231km Az.gap 337°
Corr. -0.348 5M/5stn Msd 0.3

01/13472
OCT 04 022644.9s 37.03S 179.64W 33km M=3.9
1.7 0.26 0.12 R
Rsd 0.4s 6ph/5stn Dmin 219km Az.gap 347°
Corr. -0.779 3M/3stn Msd 0.1

01/13473
OCT 04 032006.7s 38.66S 176.10E 5km M=2.3
0.4 0.02 0.03 1
Rsd 0.3s 10ph/8stn Dmin 2km Az.gap 209°
Corr. -0.514 4M/4stn Msd 0.5 1↑ 1↓
Felt Wairakei (41).

01/13499
OCT 04 211233.0s 37.95S 179.21E 12km M=3.6
1.1 0.10 0.05 R
Rsd 0.3s 5ph/4stn Dmin 85km Az.gap 327°
Corr. 0.460 1M/1stn Msd N.D. 1↓

01/13502
OCT 04 214912.5s 40.12S 174.23E 100km M=3.6
0.2 0.01 0.01 3
Rsd 0.3s 48ph/35stn Dmin 70km Az.gap 103°
Corr. -0.104 13M/10stn Msd 0.3 4↑ 1↓

01/13504
OCT 04 230800.7s 37.75S 179.96W 33km M=3.7
0.9 0.09 0.05 R
Rsd 0.3s 7ph/5stn Dmin 161km Az.gap 332°
Corr. 0.189 3M/3stn Msd 0.3

01/13509
OCT 05 023433.3s 40.89S 172.88E 227km M=5.0
0.4 0.02 0.02 3
Rsd 0.2s 42ph/29stn Dmin 30km Az.gap 96°
Corr. -0.166 14M/7stn Msd 0.2 19↑ 10↓
Felt Nelson (76).

01/13521
OCT 05 111054.7s 40.49S 173.27E 156km M=3.7
0.3 0.01 0.01 3
Rsd 0.2s 45ph/34stn Dmin 65km Az.gap 144°
Corr. -0.204 13M/11stn Msd 0.3 4↑ 1↓

01/13526
OCT 05 133143.2s 37.12S 179.28W 33km M=3.6
0.1 0.02 0.01 R
Rsd 0.0s 5ph/3stn Dmin 242km Az.gap 344°
Corr. -0.532 2M/2stn Msd 0.3

01/13542
OCT 05 183607.9s 37.41S 177.65E 126km M=3.5
0.5 0.04 0.03 4
Rsd 0.2s 8ph/5stn Dmin 91km Az.gap 289°
Corr. -0.454 3M/3stn Msd 0.2 1↓

01/13544
OCT 05 185746.5s 45.08S 167.47E 91km M=4.0
0.3 0.02 0.02 3
Rsd 0.2s 15ph/10stn Dmin 50km Az.gap 190°
Corr. -0.270 11M/6stn Msd 0.2 3↑ 5↓

01/13557
OCT 06 041324.4s 37.39S 177.39E 155km M=4.2
0.7 0.05 0.03 6
Rsd 0.3s 14ph/9stn Dmin 100km Az.gap 254°
Corr. 0.078 9M/5stn Msd 0.2 1↑

01/13566
OCT 06 101658.8s 44.85S 167.31E 33km M=3.6
0.2 0.02 0.02 3
Rsd 0.1s 14ph/9stn Dmin 53km Az.gap 215°
Corr. -0.926 16M/10stn Msd 0.3 1↑

01/13569
OCT 06 114137.3s 39.17S 175.75E 78km M=4.0
0.1 0.01 0.01 1
Rsd 0.2s 45ph/37stn Dmin 12km Az.gap 50°
Corr. -0.503 8M/4stn Msd 0.1 5↑ 6↓

01/13574
OCT 06 163919.5s 38.70S 175.81E 136km M=3.9
0.4 0.02 0.01 4
Rsd 0.2s 22ph/16stn Dmin 41km Az.gap 81°
Corr. -0.320 15M/12stn Msd 0.2 6↑ 5↓

01/13588
OCT 06 232647.7s 37.21S 179.12W 33km M=4.1
0.5 0.05 0.03 R
Rsd 0.2s 11ph/7stn Dmin 251km Az.gap 332°
Corr. -0.200 5M/5stn Msd 0.1

01/13590
OCT 07 001741.7s 36.94S 179.20W 33km M=4.2
0.2 0.02 0.02 R
Rsd 0.1s 6ph/3stn Dmin 258km Az.gap 344°
Corr. -0.518 2M/2stn Msd 0.3

01/13591
OCT 07 001944.5s 40.93S 174.81E 50km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 46ph/33stn Dmin 11km Az.gap 61°
Corr. -0.338 13M/9stn Msd 0.2 1↓

01/13598
OCT 07 062450.0s 37.28S 176.72E 246km M=3.7
0.4 0.03 0.04 3
Rsd 0.1s 9ph/6stn Dmin 114km Az.gap 276°
Corr. -0.804 4M/4stn Msd 0.1

01/13601
OCT 07 082812.0s 35.07S 178.94W 33km M=4.0
0.7 0.10 0.12 R
Rsd 0.2s 6ph/4stn Dmin 418km Az.gap 349°
Corr. -0.864 2M/2stn Msd 0.4

01/13613
OCT 07 140357.8s 37.60S 179.15E 33km M=3.9
0.3 0.02 0.03 R
Rsd 0.1s 13ph/8stn Dmin 95km Az.gap 330°
Corr. -0.445 13M/11stn Msd 0.2 1↑

01/13629
OCT 08 020123.8s 40.42S 176.82E 36km M=4.5
0.1 0.01 0.01 5
Rsd 0.2s 46ph/37stn Dmin 44km Az.gap 194°
Corr. -0.392 11M/6stn Msd 0.3 4↑ 5↓
Felt Waipukurau (60) and Palmerston North (62).

01/13633
OCT 08 021243.7s 40.42S 176.86E 40km M=3.8
0.2 0.01 0.02 3
Rsd 0.1s 29ph/23stn Dmin 43km Az.gap 197°
Corr. -0.409 14M/10stn Msd 0.2

01/13642
OCT 08 030415.9s 40.45S 176.85E 35km M=3.7
0.2 0.01 0.02 7
Rsd 0.1s 34ph/23stn Dmin 47km Az.gap 203°
Corr. -0.231 17M/12stn Msd 0.2

01/13650
OCT 08 063028.8s 37.21S 179.02W 33km M=3.8
0.6 0.05 0.04 R
Rsd 0.2s 8ph/5stn Dmin 258km Az.gap 339°
Corr. -0.351 6M/6stn Msd 0.2

01/13664
OCT 08 113626.4s 40.42S 176.81E 35km M=4.5
0.2 0.01 0.01 4
Rsd 0.1s 39ph/29stn Dmin 43km Az.gap 196°
Corr. 0.024 12M/6stn Msd 0.3 1↑ 2↓

01/13666
OCT 08 120428.8s 40.46S 176.85E 33km M=3.7
0.2 0.01 0.01 R
Rsd 0.2s 30ph/23stn Dmin 48km Az.gap 204°
Corr. -0.566 8M/4stn Msd 0.1 1↑

01/13673
OCT 08 140315.8s 39.66S 173.63E 13km M=3.9
0.2 0.01 0.01 2
Rsd 0.2s 45ph/34stn Dmin 45km Az.gap 160°
Corr. -0.546 17M/9stn Msd 0.2 2↑ 1↓

01/13674
OCT 08 140323.1s 39.66S 173.59E 12km M=4.0
0.3 0.02 0.02 R
Rsd 0.3s 42ph/28stn Dmin 47km Az.gap 186°
Corr. -0.756 15M/8stn Msd 0.2

01/13675
OCT 08 140342.9s 39.66S 173.52E 12km M=3.7
0.2 0.01 0.02 R
Rsd 0.2s 27ph/22stn Dmin 51km Az.gap 185°
Corr. -0.669 10M/5stn Msd 0.2

01/13684
OCT 08 154854.4s 38.70S 175.70E 163km M=3.5
0.9 0.05 0.04 8
Rsd 0.3s 12ph/9stn Dmin 36km Az.gap 221°
Corr. -0.762 9M/9stn Msd 0.2

01/13690
OCT 08 192734.7s 40.98S 174.46E 5km M=4.8
0.1 0.01 0.00 R
Rsd 0.2s 58ph/41stn Dmin 30km Az.gap 53°
Corr. 0.133 27M/14stn Msd 0.2 9↑ 10↓
Felt Levin (65), Wellington (68) and Blenheim (77).

01/13703
OCT 09 054207.6s 37.54S 179.27E 17km M=4.0
0.4 0.02 0.02 3
Rsd 0.1s 15ph/12stn Dmin 107km Az.gap 296°
Corr. -0.124 14M/12stn Msd 0.3 1↑

01/13704
OCT 09 054319.6s 37.05S 177.19E 188km M=3.5
0.8 0.07 0.04 6
Rsd 0.2s 10ph/7stn Dmin 135km Az.gap 286°
Corr. -0.240 3M/3stn Msd 0.2

01/13705
OCT 09 061421.8s 37.79S 179.97W 12km M=3.5
0.3 0.03 0.02 R
Rsd 0.1s 5ph/3stn Dmin 159km Az.gap 331°
Corr. 0.244 3M/3stn Msd 0.2

01/13717
OCT 09 130426.0s 41.05S 174.88E 5km M=2.7
0.1 0.00 0.01 R
Rsd 0.2s 26ph/19stn Dmin 17km Az.gap 73°
Corr. -0.342 21M/19stn Msd 0.3 5↑ 3↓
Felt Pauatahanui (68).

01/13721
OCT 09 145644.9s 40.23S 176.66E 51km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 29ph/22stn Dmin 28km Az.gap 180°
Corr. -0.473 11M/8stn Msd 0.1 1↓
Felt north of Porongahau (63).

01/13742
OCT 10 075132.5s 37.29S 179.21W 33km M=3.6
0.9 0.08 0.06 R
Rsd 0.3s 6ph/4stn Dmin 240km Az.gap 338°
Corr. 0.090 2M/2stn Msd 0.1

01/13776
OCT 11 113644.0s 41.58S 172.79E 102km M=3.6
0.4 0.02 0.02 4
Rsd 0.4s 27ph/17stn Dmin 22km Az.gap 88°
Corr. -0.104 7M/6stn Msd 0.3 3↑ 3↓

01/13783
OCT 11 144429.7s 36.28S 179.51W 33km M=3.9
0.7 0.10 0.08 R
Rsd 0.2s 5ph/3stn Dmin 281km Az.gap 345°
Corr. -0.788 2M/2stn Msd 0.3

01/13805
OCT 12 094401.9s 38.57S 176.23E 167km M=3.5
1.2 0.06 0.07 10
Rsd 0.4s 13ph/11stn Dmin 76km Az.gap 195°
Corr. -0.661 4M/4stn Msd 0.3 1↑

01/13829
OCT 12 191233.8s 37.09S 179.20W 33km M=3.9
0.6 0.10 0.04 R
Rsd 0.1s 5ph/3stn Dmin 249km Az.gap 344°
Corr. -0.672 3M/3stn Msd 0.2

01/13846
OCT 13 032231.7s 36.90S 177.74E 110km M=4.1
0.6 0.05 0.02 7
Rsd 0.2s 15ph/12stn Dmin 85km Az.gap 277°
Corr. 0.307 12M/10stn Msd 0.1 2↑ 1↓

01/13857
OCT 13 091514.7s 37.88S 179.74E 12km M=3.7
0.4 0.03 0.02 R
Rsd 0.2s 12ph/9stn Dmin 133km Az.gap 320°
Corr. 0.203 8M/7stn Msd 0.3 1↓

01/13864
OCT 13 124706.6s 41.24S 172.70E 191km M=4.3
0.4 0.03 0.02 3
Rsd 0.3s 38ph/28stn Dmin 48km Az.gap 109°
Corr. -0.452 10M/5stn Msd 0.2 17↑ 3↓

01/13875
OCT 13 203603.9s 38.76S 178.75E 33km M=3.5
0.4 0.02 0.03 R
Rsd 0.2s 12ph/9stn Dmin 64km Az.gap 251°
Corr. -0.624 11M/11stn Msd 0.2 3↑ 2↓

01/13883
OCT 14 060714.4s 38.31S 175.29E 199km M=3.6
0.5 0.02 0.06 5
Rsd 0.1s 7ph/6stn Dmin 80km Az.gap 324°
Corr. -0.448 1M/1stn Msd N.D.

01/13893
OCT 14 165018.7s 38.88S 174.60E 21km M=4.0
0.1 0.01 0.00 2
Rsd 0.2s 36ph/32stn Dmin 49km Az.gap 122°
Corr. -0.078 20M/10stn Msd 0.1 5↑ 9↓
Felt Whangamomona (48) and Wanganui (57).

01/13894
OCT 14 174051.7s 40.24S 173.34E 179km M=3.8
0.3 0.01 0.01 2
Rsd 0.2s 39ph/28stn Dmin 80km Az.gap 160°
Corr. -0.179 13M/10stn Msd 0.2 1↑ 1↓

01/13898
OCT 14 210703.5s 36.55S 177.91E 233km M=3.6
1.4 0.16 0.12 11
Rsd 0.5s 9ph/7stn Dmin 172km Az.gap 316°
Corr. -0.446 3M/3stn Msd 0.2

01/13905
OCT 15 034938.5s 39.69S 176.73E 41km M=5.8
0.1 0.01 0.01 3
Rsd 0.2s 46ph/42stn Dmin 28km Az.gap 115°
Corr. -0.208 14M/7stn Msd 0.2 21↑ 11↓
Felt from Gisborne to Wanganui, maximum intensity MM VI in Napier and

01/13922
OCT 15 125024.6s 39.01S 175.02E 206km M=4.3
0.4 0.02 0.02 3
Rsd 0.2s 31ph/25stn Dmin 33km Az.gap 176°
Corr. 0.026 18M/13stn Msd 0.3 7↑ 5↓

01/13937
OCT 15 233225.9s 44.04S 169.06E 5km M=3.8
0.3 0.02 0.01 R
Rsd 0.2s 14ph/8stn Dmin 85km Az.gap 168°
Corr. -0.498 15M/9stn Msd 0.3 1↑

01/13942
OCT 16 012332.6s 41.30S 173.71E 74km M=3.8
0.2 0.01 0.01 3
Rsd 0.3s 36ph/23stn Dmin 20km Az.gap 71°
Corr. -0.480 16M/11stn Msd 0.2 6↑ 9↓

01/13965
OCT 16 161753.9s 36.80S 179.38W 33km M=4.0
0.6 0.03 0.04 R
Rsd 0.2s 13ph/8stn Dmin 252km Az.gap 312°
Corr. 0.075 12M/12stn Msd 0.2

01/13966
OCT 16 170354.8s 37.43S 176.75E 184km M=3.7
0.5 0.04 0.03 4
Rsd 0.2s 10ph/8stn Dmin 97km Az.gap 303°
Corr. 0.160 6M/6stn Msd 0.2 1↑

01/13967
OCT 16 171500.5s 39.38S 177.97E 26km M=4.0
0.1 0.01 0.01 1
Rsd 0.1s 18ph/11stn Dmin 48km Az.gap 211°
Corr. -0.482 10M/5stn Msd 0.1 3↑ 1↓

01/13972
OCT 16 210236.1s 40.61S 174.05E 82km M=3.7
0.2 0.01 0.01 4
Rsd 0.3s 46ph/34stn Dmin 24km Az.gap 95°
Corr. 0.086 15M/11stn Msd 0.3 6↑ 4↓

01/13976
OCT 16 232144.7s 38.80S 175.74E 133km M=4.1
0.2 0.01 0.01 2
Rsd 0.2s 31ph/24stn Dmin 8km Az.gap 59°
Corr. -0.086 12M/10stn Msd 0.2 5↑ 3↓

01/13987
OCT 17 074228.6s 45.09S 167.52E 112km M=3.5
0.5 0.02 0.03 4
Rsd 0.3s 15ph/8stn Dmin 51km Az.gap 180°
Corr. -0.186 7M/7stn Msd 0.2 2↑ 1↓

01/13996
OCT 17 120501.3s 36.74S 179.22W 33km M=3.9
0.5 0.05 0.05 R
Rsd 0.2s 8ph/4stn Dmin 268km Az.gap 345°
Corr. -0.670 4M/4stn Msd 0.2

01/13998
OCT 17 165003.4s 40.07S 176.97E 50km M=3.7
0.2 0.01 0.02 2
Rsd 0.2s 32ph/25stn Dmin 10km Az.gap 192°
Corr. -0.422 15M/12stn Msd 0.2 1↑

01/14004
OCT 17 192537.9s 38.01S 176.54E 152km M=4.6
0.2 0.01 0.01 2
Rsd 0.2s 45ph/36stn Dmin 9km Az.gap 75°
Corr. 0.036 12M/6stn Msd 0.2 11↑ 3↓

01/14007
OCT 17 200241.8s 44.51S 168.31E 12km M=4.8
0.2 0.01 0.01 R
Rsd 0.2s 18ph/12stn Dmin 35km Az.gap 163°
Corr. -0.273 21M/11stn Msd 0.2 4↑ 2↓
Felt Mt Aspiring (113) to Wanaka (123).

01/14015
OCT 17 214615.8s 39.28S 174.85E 213km M=3.7
0.1 0.01 0.01 1
Rsd 0.0s 13ph/11stn Dmin 58km Az.gap 308°
Corr. 0.180 7M/6stn Msd 0.2

01/14020
OCT 18 012121.3s 37.10S 176.92E 212km M=4.2
0.4 0.02 0.02 3
Rsd 0.2s 15ph/10stn Dmin 114km Az.gap 203°
Corr. 0.467 13M/11stn Msd 0.1 1↑ 1↓

01/14036
OCT 18 093139.7s 36.17S 178.92E 33km M=4.2
0.9 0.04 0.06 R
Rsd 0.4s 17ph/13stn Dmin 220km Az.gap 299°
Corr. 0.569 14M/12stn Msd 0.3

01/14037
OCT 18 093218.2s 38.47S 175.87E 189km M=3.7
0.6 0.02 0.02 5
Rsd 0.2s 16ph/12stn Dmin 65km Az.gap 263°
Corr. -0.026 7M/6stn Msd 0.2

01/14047
OCT 18 142704.7s 41.07S 174.92E 35km M=2.8
0.1 0.01 0.01 1
Rsd 0.2s 27ph/23stn Dmin 13km Az.gap 69°
Corr. -0.221 10M/9stn Msd 0.2 3↑ 3↓
Felt Pauatahanui (68).

01/14063
OCT 18 230159.9s 40.51S 176.10E 38km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 32ph/25stn Dmin 22km Az.gap 97°
Corr. -0.317 13M/9stn Msd 0.2 1↑ 1↓

01/14071
OCT 19 020111.2s 36.64S 179.07W 33km M=3.7
0.8 0.21 0.14 R
Rsd 0.3s 5ph/3stn Dmin 285km Az.gap 354°
Corr. -0.914 3M/3stn Msd 0.2

01/14075
OCT 19 044834.5s 36.53S 177.06E 274km M=3.7
0.2 0.02 0.02 2
Rsd 0.1s 6ph/3stn Dmin 192km Az.gap 330°
Corr. -0.100 2M/2stn Msd 0.1

01/14078
OCT 19 062837.9s 36.29S 177.23E 234km M=3.7
0.9 0.09 0.09 6
Rsd 0.2s 9ph/8stn Dmin 219km Az.gap 327°
Corr. -0.475 4M/4stn Msd 0.1

01/14081
OCT 19 072443.6s 38.73S 176.20E 90km M=3.6
0.2 0.01 0.01 2
Rsd 0.2s 24ph/15stn Dmin 63km Az.gap 136°
Corr. -0.403 11M/9stn Msd 0.2 1↑ 3↓

01/14082
OCT 19 082450.1s 37.29S 177.49E 125km M=4.2
0.5 0.03 0.03 4
Rsd 0.2s 13ph/10stn Dmin 38km Az.gap 263°
Corr. 0.282 12M/10stn Msd 0.2 1↑ 1↓

01/14093
OCT 19 180030.0s 38.05S 176.05E 150km M=3.6
0.8 0.05 0.06 8
Rsd 0.3s 6ph/3stn Dmin 96km Az.gap 277°
Corr. -0.430 1M/1stn Msd N.D. 1↓

01/14117
OCT 20 093730.5s 36.33S 177.65E 221km M=3.8
0.2 0.02 0.01 2
Rsd 0.0s 5ph/3stn Dmin 201km Az.gap 333°
Corr. -0.316 2M/2stn Msd 0.2

01/14127
OCT 20 203353.0s 38.11S 176.22E 166km M=3.6
1.4 0.08 0.05 10
Rsd 0.4s 8ph/7stn Dmin 80km Az.gap 251°
Corr. -0.381 7M/7stn Msd 0.4 1↑

01/14130
OCT 20 223301.2s 37.72S 176.34E 228km M=3.9
0.6 0.04 0.03 4
Rsd 0.2s 9ph/8stn Dmin 90km Az.gap 270°
Corr. -0.282 8M/8stn Msd 0.3 1↑

01/14134
OCT 21 002213.1s 36.99S 179.98W 33km M=3.7
0.5 0.03 0.03 R
Rsd 0.2s 10ph/7stn Dmin 197km Az.gap 305°
Corr. -0.174 10M/10stn Msd 0.3

01/14135
OCT 21 002728.0s 37.07S 179.89W 33km M=3.7
0.2 0.02 0.01 R
Rsd 0.1s 10ph/6stn Dmin 198km Az.gap 340°
Corr. -0.456 6M/6stn Msd 0.3

01/14136
OCT 21 002918.0s 37.15S 179.30E 12km M=4.6
0.5 0.03 0.04 R
Rsd 0.2s 25ph/21stn Dmin 138km Az.gap 296°
Corr. -0.230 47M/45stn Msd 0.3

01/14137
OCT 21 002920.4s 36.89S 179.86E 12km M=6.3
0.6 0.04 0.05 R
Rsd 0.3s 25ph/18stn Dmin 193km Az.gap 305°
Corr. -0.311 42M/22stn Msd 0.2
Felt widely throughout northern and eastern areas of the North Island.

01/14138
OCT 21 003431.5s 37.09S 179.75W 33km M=4.4
0.6 0.03 0.04 R
Rsd 0.2s 11ph/7stn Dmin 207km Az.gap 307°
Corr. -0.172 10M/6stn Msd 0.4

01/14139
OCT 21 003617.4s 37.06S 179.93W 33km M=3.7
0.8 0.05 0.06 R
Rsd 0.2s 6ph/4stn Dmin 196km Az.gap 309°
Corr. -0.135 2M/2stn Msd 0.1

01/14140
OCT 21 003706.6s 36.98S 179.96W 33km M=4.8
0.4 0.02 0.03 R
Rsd 0.2s 20ph/16stn Dmin 199km Az.gap 305°
Corr. -0.159 28M/24stn Msd 0.3

01/14141
OCT 21 003809.0s 37.14S 179.91W 33km M=5.1
0.8 0.04 0.06 R
Rsd 0.2s 12ph/9stn Dmin 192km Az.gap 304°
Corr. -0.022 9M/5stn Msd 0.4

01/14142
OCT 21 004010.2s 37.06S 179.82E 33km M=4.1
0.7 0.04 0.06 R
Rsd 0.3s 8ph/5stn Dmin 178km Az.gap 306°
Corr. -0.233 5M/4stn Msd 0.6

01/14143
OCT 21 004139.3s 36.97S 179.89W 33km M=4.1
0.4 0.02 0.03 R
Rsd 0.1s 11ph/8stn Dmin 204km Az.gap 310°
Corr. 0.055 10M/8stn Msd 0.2

01/14144
OCT 21 005225.6s 37.05S 179.94E 33km M=4.3
0.8 0.03 0.06 R
Rsd 0.3s 11ph/8stn Dmin 187km Az.gap 308°
Corr. 0.205 13M/9stn Msd 0.4

01/14145
OCT 21 005655.5s 37.18S 179.83W 33km M=4.0
1.3 0.05 0.10 R
Rsd 0.5s 8ph/5stn Dmin 195km Az.gap 308°
Corr. -0.260 5M/5stn Msd 0.5

01/14146
OCT 21 005844.4s 37.15S 179.78W 33km M=3.9
0.8 0.04 0.05 R
Rsd 0.4s 10ph/8stn Dmin 202km Az.gap 309°
Corr. -0.065 7M/5stn Msd 0.2

01/14147
OCT 21 010153.7s 37.08S 179.79W 33km M=3.9
1.2 0.07 0.09 R
Rsd 0.5s 8ph/6stn Dmin 205km Az.gap 311°
Corr. -0.098 7M/6stn Msd 0.3

01/14148
OCT 21 010452.1s 37.39S 179.82W 33km M=3.9
0.3 0.03 0.02 R
Rsd 0.1s 10ph/7stn Dmin 186km Az.gap 332°
Corr. -0.225 14M/12stn Msd 0.2

01/14149
OCT 21 011741.4s 37.08S 179.91W 33km M=4.4
0.4 0.03 0.03 R
Rsd 0.2s 16ph/12stn Dmin 196km Az.gap 304°
Corr. -0.400 9M/5stn Msd 0.2

01/14151
OCT 21 012355.7s 37.11S 179.86W 33km M=4.2
0.6 0.03 0.04 R
Rsd 0.2s 11ph/7stn Dmin 197km Az.gap 304°
Corr. -0.044 10M/7stn Msd 0.4

01/14152
OCT 21 012448.2s 37.12S 179.72W 33km M=4.1
1.3 0.06 0.10 R
Rsd 0.6s 11ph/7stn Dmin 208km Az.gap 307°
Corr. -0.167 6M/5stn Msd 0.1

01/14153
OCT 21 012554.0s 37.02S 179.93E 33km M=4.5
0.8 0.04 0.05 R
Rsd 0.3s 11ph/7stn Dmin 188km Az.gap 304°
Corr. 0.261 21M/19stn Msd 0.2

01/14154
OCT 21 012903.3s 37.21S 179.82W 33km M=3.7
0.4 0.04 0.03 R
Rsd 0.1s 5ph/3stn Dmin 195km Az.gap 341°
Corr. -0.191 2M/2stn Msd 0.2

01/14155
OCT 21 013158.0s 36.99S 179.89E 33km M=4.8
0.8 0.05 0.06 R
Rsd 0.4s 20ph/16stn Dmin 188km Az.gap 304°
Corr. 0.194 22M/11stn Msd 0.2 1↓

01/14156
OCT 21 014211.5s 37.23S 179.88W 33km M=4.0
1.0 0.04 0.07 R
Rsd 0.4s 10ph/7stn Dmin 189km Az.gap 306°
Corr. -0.164 10M/8stn Msd 0.3

01/14157
OCT 21 014648.2s 37.20S 179.89W 33km M=4.0
0.3 0.01 0.02 R
Rsd 0.1s 14ph/10stn Dmin 190km Az.gap 303°
Corr. -0.191 16M/14stn Msd 0.2

01/14158
OCT 21 015350.6s 37.17S 179.98E 33km M=3.9
0.7 0.03 0.05 R
Rsd 0.3s 10ph/6stn Dmin 182km Az.gap 308°
Corr. -0.051 10M/9stn Msd 0.2

01/14160
OCT 21 021529.1s 37.10S 179.89W 33km M=4.2
0.4 0.02 0.03 R
Rsd 0.1s 14ph/11stn Dmin 196km Az.gap 304°
Corr. -0.201 24M/21stn Msd 0.2

01/14161
OCT 21 021655.4s 37.31S 179.92E 33km M=3.5
0.8 0.08 0.06 R
Rsd 0.3s 8ph/4stn Dmin 169km Az.gap 338°
Corr. -0.494 2M/2stn Msd 0.2

01/14164
OCT 21 022603.7s 37.01S 179.73W 33km M=4.1
0.4 0.02 0.03 R
Rsd 0.1s 13ph/10stn Dmin 213km Az.gap 311°
Corr. -0.077 11M/11stn Msd 0.2

01/14165
OCT 21 022817.1s 37.29S 179.85W 33km M=3.8
0.8 0.09 0.05 R
Rsd 0.3s 7ph/5stn Dmin 188km Az.gap 341°
Corr. -0.308 2M/2stn Msd 0.1

01/14167
OCT 21 023541.5s 37.17S 179.98W 33km M=3.7
0.5 0.02 0.04 R
Rsd 0.2s 14ph/10stn Dmin 185km Az.gap 304°
Corr. 0.007 16M/16stn Msd 0.3

01/14168
OCT 21 024120.9s 37.30S 179.81W 33km M=3.7
0.8 0.10 0.05 R
Rsd 0.3s 5ph/3stn Dmin 191km Az.gap 340°
Corr. -0.310 2M/2stn Msd 0.0

01/14170
OCT 21 025212.1s 36.87S 179.92W 33km M=4.9
0.5 0.03 0.04 R
Rsd 0.2s 22ph/18stn Dmin 209km Az.gap 306°
Corr. -0.186 23M/12stn Msd 0.1

01/14171
OCT 21 030418.6s 36.96S 179.90W 33km M=4.3
0.6 0.03 0.04 R
Rsd 0.2s 23ph/19stn Dmin 205km Az.gap 306°
Corr. -0.201 31M/27stn Msd 0.2

01/14172
OCT 21 031424.2s 37.03S 179.83W 33km M=3.8
0.7 0.05 0.05 R
Rsd 0.3s 13ph/8stn Dmin 205km Az.gap 307°
Corr. -0.132 16M/15stn Msd 0.3

01/14173
OCT 21 032601.5s 36.98S 180.00W 33km M=4.1
0.8 0.03 0.06 R
Rsd 0.2s 13ph/10stn Dmin 292km Az.gap 304°
Corr. 0.390 18M/16stn Msd 0.2

01/14176
OCT 21 034202.6s 37.14S 179.90W 33km M=3.8
0.7 0.03 0.05 R
Rsd 0.3s 8ph/6stn Dmin 192km Az.gap 310°
Corr. 0.084 5M/5stn Msd 0.2

01/14181
OCT 21 040311.9s 37.07S 179.98E 33km M=4.0
0.5 0.03 0.03 R
Rsd 0.2s 15ph/11stn Dmin 189km Az.gap 305°
Corr. -0.157 14M/12stn Msd 0.2

01/14182
OCT 21 040803.7s 37.11S 179.83W 33km M=4.0
0.7 0.04 0.05 R
Rsd 0.3s 14ph/10stn Dmin 200km Az.gap 304°
Corr. -0.278 14M/13stn Msd 0.2

01/14184
OCT 21 042652.8s 37.07S 179.93E 33km M=3.9
0.6 0.03 0.05 R
Rsd 0.2s 11ph/7stn Dmin 185km Az.gap 304°
Corr. -0.312 11M/11stn Msd 0.1

01/14187
OCT 21 045314.2s 37.24S 179.97E 33km M=3.5
0.5 0.04 0.03 R
Rsd 0.2s 8ph/6stn Dmin 177km Az.gap 335°
Corr. -0.354 2M/2stn Msd 0.3

01/14190
OCT 21 052509.9s 37.20S 179.79W 33km M=3.8
0.9 0.04 0.07 R
Rsd 0.3s 8ph/6stn Dmin 198km Az.gap 311°
Corr. 0.291 3M/3stn Msd 0.1

01/14191
OCT 21 053021.9s 37.12S 179.92E 33km M=3.6
0.8 0.05 0.06 R
Rsd 0.2s 5ph/3stn Dmin 181km Az.gap 319°
Corr. -0.554 2M/2stn Msd 0.2

01/14192
OCT 21 053500.0s 37.06S 179.81W 33km M=4.0
0.2 0.01 0.02 R
Rsd 0.1s 10ph/7stn Dmin 205km Az.gap 311°
Corr. -0.400 6M/6stn Msd 0.2

01/14193
OCT 21 053928.8s 36.95S 179.99E 33km M=4.0
0.9 0.03 0.06 R
Rsd 0.3s 9ph/7stn Dmin 198km Az.gap 309°
Corr. 0.113 4M/4stn Msd 0.3

01/14198
OCT 21 061117.7s 37.17S 179.99E 33km M=4.0
0.8 0.04 0.05 R
Rsd 0.3s 11ph/7stn Dmin 182km Az.gap 305°
Corr. 0.203 13M/11stn Msd 0.2

01/14199
OCT 21 061235.1s 37.08S 179.90W 33km M=3.7
0.5 0.03 0.04 R
Rsd 0.2s 10ph/6stn Dmin 196km Az.gap 307°
Corr. -0.109 7M/7stn Msd 0.1

01/14203
OCT 21 064014.3s 36.98S 179.91E 33km M=3.5
0.4 0.02 0.03 R
Rsd 0.1s 8ph/5stn Dmin 190km Az.gap 307°
Corr. -0.216 5M/5stn Msd 0.2

01/14205
OCT 21 064552.4s 37.00S 179.80W 33km M=4.0
0.7 0.04 0.05 R
Rsd 0.3s 14ph/11stn Dmin 209km Az.gap 307°
Corr. 0.025 22M/20stn Msd 0.2

01/14207
OCT 21 070448.2s 37.11S 179.86E 33km M=3.7
1.2 0.05 0.09 R
Rsd 0.5s 9ph/7stn Dmin 177km Az.gap 306°
Corr. 0.170 4M/4stn Msd 0.2

01/14209
OCT 21 074050.8s 36.61S 179.54W 33km M=3.6
1.0 0.05 0.08 R
Rsd 0.3s 5ph/3stn Dmin 254km Az.gap 328°
Corr. -0.223 2M/2stn Msd 0.3

01/14210
OCT 21 074455.3s 36.81S 179.74W 33km M=3.6
0.1 0.01 0.01 R
Rsd 0.0s 6ph/4stn Dmin 227km Az.gap 327°
Corr. -0.446 2M/2stn Msd 0.1

01/14211
OCT 21 075042.4s 37.56S 179.69W 33km M=3.7
1.7 0.15 0.09 R
Rsd 0.6s 9ph/7stn Dmin 189km Az.gap 333°
Corr. 0.255 3M/3stn Msd 0.1

01/14214
OCT 21 075534.6s 37.08S 179.99E 33km M=4.2
0.6 0.03 0.04 R
Rsd 0.3s 14ph/9stn Dmin 189km Az.gap 304°
Corr. 0.084 19M/16stn Msd 0.2

01/14217
OCT 21 090226.8s 37.22S 179.83W 33km M=3.6
0.3 0.03 0.02 R
Rsd 0.1s 7ph/5stn Dmin 194km Az.gap 341°
Corr. -0.366 4M/4stn Msd 0.1

01/14223
OCT 21 102544.7s 38.11S 176.03E 169km M=3.9
0.4 0.04 0.02 3
Rsd 0.2s 15ph/10stn Dmin 96km Az.gap 228°
Corr. -0.650 9M/9stn Msd 0.2 1↑

01/14224
OCT 21 102933.3s 37.25S 179.98E 33km M=3.7
1.0 0.06 0.08 R
Rsd 0.4s 9ph/6stn Dmin 178km Az.gap 314°
Corr. -0.151 2M/2stn Msd 0.1

01/14225
OCT 21 103121.5s 37.01S 179.95E 33km M=4.0
0.7 0.03 0.05 R
Rsd 0.2s 13ph/8stn Dmin 191km Az.gap 305°
Corr. -0.121 13M/11stn Msd 0.2

01/14230
OCT 21 110436.9s 37.24S 179.83W 33km M=3.7
0.4 0.04 0.03 R
Rsd 0.1s 9ph/5stn Dmin 192km Az.gap 341°
Corr. -0.462 3M/3stn Msd 0.2

01/14232
OCT 21 115605.4s 37.00S 179.70W 33km M=3.6
1.4 0.07 0.11 R
Rsd 0.5s 6ph/4stn Dmin 216km Az.gap 312°
Corr. -0.041 2M/2stn Msd 0.2

01/14233
OCT 21 120956.6s 36.98S 179.94E 33km M=4.4
0.7 0.03 0.05 R
Rsd 0.3s 20ph/16stn Dmin 192km Az.gap 304°
Corr. 0.091 10M/6stn Msd 0.2

01/14234
OCT 21 122701.3s 37.08S 179.90W 33km M=3.7
0.6 0.03 0.04 R
Rsd 0.2s 8ph/6stn Dmin 197km Az.gap 312°
Corr. -0.100 2M/2stn Msd 0.2

01/14238
OCT 21 134746.3s 37.11S 179.85W 33km M=3.9
0.7 0.04 0.05 R
Rsd 0.3s 8ph/5stn Dmin 198km Az.gap 305°
Corr. -0.105 8M/6stn Msd 0.2

01/14239
OCT 21 141347.6s 36.97S 179.97W 33km M=3.7
0.7 0.03 0.05 R
Rsd 0.2s 10ph/9stn Dmin 198km Az.gap 310°
Corr. 0.265 8M/8stn Msd 0.2

01/14240
OCT 21 143048.2s 37.17S 179.90W 33km M=4.4
0.3 0.02 0.02 R
Rsd 0.1s 15ph/11stn Dmin 191km Az.gap 303°
Corr. -0.540 35M/30stn Msd 0.2 1↑

01/14243
OCT 21 144041.2s 37.15S 179.93W 33km M=3.9
0.3 0.03 0.03 R
Rsd 0.1s 14ph/10stn Dmin 190km Az.gap 307°
Corr. -0.487 12M/12stn Msd 0.2

01/14244
OCT 21 144722.0s 37.31S 179.91W 33km M=3.5
0.2 0.03 0.02 R
Rsd 0.1s 6ph/3stn Dmin 182km Az.gap 340°
Corr. -0.614 2M/2stn Msd 0.2

01/14246
OCT 21 154130.1s 36.97S 179.83W 33km M=4.6
0.4 0.03 0.03 R
Rsd 0.2s 19ph/17stn Dmin 209km Az.gap 306°
Corr. -0.225 12M/8stn Msd 0.1 2↑ 2↓

01/14248
OCT 21 160220.2s 37.11S 179.89W 33km M=3.5
0.3 0.06 0.04 R
Rsd 0.1s 5ph/2stn Dmin 196km Az.gap 353°
Corr. -0.875 2M/2stn Msd 0.1

01/14250
OCT 21 161124.7s 36.84S 179.78E 33km M=4.3
0.5 0.03 0.04 R
Rsd 0.2s 22ph/19stn Dmin 193km Az.gap 305°
Corr. 0.087 39M/35stn Msd 0.2

01/14251
OCT 21 162101.3s 37.09S 179.92W 33km M=3.8
0.8 0.04 0.06 R
Rsd 0.3s 13ph/10stn Dmin 194km Az.gap 305°
Corr. -0.319 15M/15stn Msd 0.2

01/14252
OCT 21 162152.1s 37.26S 179.86W 33km M=3.8
0.6 0.04 0.05 R
Rsd 0.3s 7ph/5stn Dmin 189km Az.gap 313°
Corr. -0.133 7M/7stn Msd 0.1

01/14256
OCT 21 165841.1s 37.18S 179.82W 33km M=3.7
0.2 0.02 0.02 R
Rsd 0.1s 14ph/10stn Dmin 196km Az.gap 306°
Corr. -0.309 9M/8stn Msd 0.2

01/14257
OCT 21 173447.9s 37.11S 179.76W 33km M=3.9
0.3 0.02 0.02 R
Rsd 0.1s 13ph/11stn Dmin 205km Az.gap 308°
Corr. -0.136 15M/14stn Msd 0.2

01/14259
OCT 21 182930.2s 37.28S 179.91W 33km M=3.8
0.2 0.01 0.01 R
Rsd 0.1s 11ph/7stn Dmin 184km Az.gap 314°
Corr. -0.188 8M/6stn Msd 0.2

01/14260
OCT 21 183055.2s 37.39S 179.87W 33km M=3.5
0.8 0.09 0.04 R
Rsd 0.2s 5ph/3stn Dmin 181km Az.gap 340°
Corr. -0.221 2M/2stn Msd 0.1

01/14270
OCT 21 202349.1s 37.08S 179.75W 33km M=3.7
0.5 0.05 0.04 R
Rsd 0.2s 6ph/4stn Dmin 208km Az.gap 318°
Corr. -0.331 3M/3stn Msd 0.2

01/14271
OCT 21 203153.0s 36.94S 179.99E 33km M=4.0
0.6 0.03 0.04 R
Rsd 0.2s 11ph/9stn Dmin 198km Az.gap 309°
Corr. -0.120 8M/8stn Msd 0.2

01/14279
OCT 21 210830.4s 36.97S 180.00E 33km M=4.1
0.6 0.04 0.05 R
Rsd 0.2s 17ph/14stn Dmin 196km Az.gap 304°
Corr. -0.323 29M/27stn Msd 0.2 1↓

01/14280
OCT 21 211033.0s 41.59S 174.41E 9km M=3.7
0.1 0.01 0.01 2
Rsd 0.3s 31ph/22stn Dmin 24km Az.gap 136°
Corr. -0.579 16M/9stn Msd 0.2 1↑

01/14287
OCT 21 211928.0s 37.09S 179.91E 33km M=4.6
0.6 0.04 0.05 R
Rsd 0.2s 21ph/17stn Dmin 182km Az.gap 303°
Corr. 0.072 15M/9stn Msd 0.2 1↑ 1↓

01/14290
OCT 21 212503.2s 37.34S 179.73W 33km M=3.9
0.8 0.04 0.05 R
Rsd 0.3s 9ph/6stn Dmin 195km Az.gap 314°
Corr. 0.095 5M/5stn Msd 0.2

01/14291
OCT 21 212709.5s 37.33S 179.86W 33km M=3.8
0.4 0.02 0.03 R
Rsd 0.1s 10ph/8stn Dmin 185km Az.gap 307°
Corr. -0.230 10M/10stn Msd 0.2 1↓

01/14296
OCT 21 213643.9s 41.59S 174.40E 9km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 30ph/24stn Dmin 24km Az.gap 135°
Corr. -0.644 14M/7stn Msd 0.1 8↑ 2↓

01/14310
OCT 21 225518.6s 37.15S 179.86W 33km M=3.7
0.3 0.03 0.02 R
Rsd 0.1s 5ph/3stn Dmin 195km Az.gap 341°
Corr. -0.279 2M/2stn Msd 0.1

01/14312
OCT 21 231848.8s 38.46S 178.67E 12km M=4.0
0.5 0.02 0.03 R
Rsd 0.2s 13ph/9stn Dmin 56km Az.gap 259°
Corr. -0.028 8M/5stn Msd 0.2 1↑ 2↓

01/14314
OCT 22 001147.7s 37.15S 179.98W 33km M=4.3
0.4 0.02 0.03 R
Rsd 0.1s 13ph/10stn Dmin 186km Az.gap 305°
Corr. -0.357 16M/13stn Msd 0.1

01/14316
OCT 22 003350.5s 37.28S 179.73W 33km M=3.8
0.9 0.07 0.06 R
Rsd 0.3s 9ph/6stn Dmin 199km Az.gap 334°
Corr. -0.041 3M/3stn Msd 0.1

01/14319
OCT 22 012852.8s 37.04S 179.70W 33km M=5.1
0.3 0.02 0.03 R
Rsd 0.1s 25ph/20stn Dmin 214km Az.gap 306°
Corr. -0.421 31M/16stn Msd 0.2 1↑ 3↓

01/14320
OCT 22 020328.3s 41.59S 174.40E 11km M=4.8
0.1 0.01 0.01 1
Rsd 0.2s 38ph/29stn Dmin 24km Az.gap 135°
Corr. -0.631 32M/18stn Msd 0.2 9↑ 3↓
Felt Blenheim (77) and Moetapu Bay (78).

01/14321
OCT 22 020433.4s 41.60S 174.39E 6km M=3.8
0.1 0.01 0.01 2
Rsd 0.2s 22ph/16stn Dmin 22km Az.gap 154°
Corr. -0.761 12M/6stn Msd 0.2 1↑

01/14324
OCT 22 020659.8s 41.59S 174.40E 5km M=4.3
0.1 0.01 0.01 R
Rsd 0.3s 35ph/25stn Dmin 24km Az.gap 135°
Corr. -0.634 20M/11stn Msd 0.1 7↑ 3↓
Felt Moetapu Bay (78).

01/14344
OCT 22 023114.8s 41.58S 174.42E 10km M=3.7
0.1 0.01 0.01 2
Rsd 0.3s 32ph/22stn Dmin 25km Az.gap 135°
Corr. -0.662 16M/8stn Msd 0.1 8↑ 2↓

01/14346
OCT 22 023240.3s 37.21S 179.72W 33km M=4.0
0.6 0.06 0.04 R
Rsd 0.2s 9ph/5stn Dmin 203km Az.gap 336°
Corr. -0.331 3M/3stn Msd 0.2

01/14350
OCT 22 024614.8s 37.05S 179.76W 33km M=4.2
0.5 0.03 0.04 R
Rsd 0.2s 13ph/10stn Dmin 209km Az.gap 306°
Corr. 0.184 22M/18stn Msd 0.2

01/14351
OCT 22 024631.9s 36.99S 179.81W 33km M=4.7
1.1 0.08 0.09 R
Rsd 0.3s 15ph/13stn Dmin 209km Az.gap 306°
Corr. -0.330 16M/9stn Msd 0.2

01/14352
OCT 22 025013.3s 37.10S 179.77W 33km M=4.1
0.5 0.05 0.04 R
Rsd 0.2s 6ph/3stn Dmin 205km Az.gap 342°
Corr. -0.441 2M/2stn Msd 0.2

01/14353
OCT 22 025637.9s 37.16S 179.96W 33km M=3.9
0.8 0.04 0.06 R
Rsd 0.3s 6ph/4stn Dmin 187km Az.gap 308°
Corr. 0.012 3M/3stn Msd 0.3

01/14362
OCT 22 035413.2s 37.24S 179.92W 33km M=3.5
0.4 0.05 0.03 R
Rsd 0.1s 5ph/3stn Dmin 186km Az.gap 340°
Corr. -0.219 2M/2stn Msd 0.1

01/14365
OCT 22 040241.0s 37.16S 179.83W 33km M=4.0
0.5 0.02 0.03 R
Rsd 0.2s 10ph/7stn Dmin 197km Az.gap 304°
Corr. -0.038 13M/11stn Msd 0.4

01/14370
OCT 22 045127.9s 37.39S 179.65W 33km M=3.8
1.2 0.11 0.08 R
Rsd 0.5s 7ph/4stn Dmin 199km Az.gap 337°
Corr. -0.249 3M/3stn Msd 0.2

01/14381
OCT 22 070641.2s 37.11S 179.85E 33km M=4.4
0.3 0.01 0.02 R
Rsd 0.1s 15ph/10stn Dmin 177km Az.gap 303°
Corr. -0.369 19M/14stn Msd 0.3 1↓

01/14391
OCT 22 092151.2s 37.16S 179.77W 33km M=4.0
0.1 0.01 0.01 R
Rsd 0.1s 10ph/7stn Dmin 202km Az.gap 308°
Corr. -0.282 9M/7stn Msd 0.3

01/14394
OCT 22 101119.8s 37.18S 179.87W 33km M=4.2
0.4 0.02 0.03 R
Rsd 0.1s 10ph/7stn Dmin 193km Az.gap 308°
Corr. -0.115 13M/11stn Msd 0.2

01/14396
OCT 22 112243.7s 37.35S 179.61W 33km M=3.6
1.1 0.09 0.08 R
Rsd 0.4s 9ph/5stn Dmin 205km Az.gap 337°
Corr. -0.259 3M/3stn Msd 0.1

01/14397
OCT 22 112253.2s 37.30S 179.79W 33km M=4.3
0.6 0.06 0.05 R
Rsd 0.2s 10ph/6stn Dmin 193km Az.gap 333°
Corr. -0.592 11M/7stn Msd 0.4

01/14398
OCT 22 112332.2s 37.42S 179.95W 33km M=4.0
0.9 0.07 0.06 R
Rsd 0.2s 7ph/4stn Dmin 174km Az.gap 337°
Corr. -0.414 5M/3stn Msd 0.1

01/14407
OCT 22 144216.6s 37.08S 179.86W 33km M=3.8
0.0 0.01 0.01 R
Rsd 0.0s 4ph/2stn Dmin 200km Az.gap 353°
Corr. -0.801 2M/2stn Msd 0.1

01/14408
OCT 22 145349.3s 37.25S 179.81W 33km M=3.7
0.4 0.04 0.03 R
Rsd 0.1s 6ph/4stn Dmin 194km Az.gap 338°
Corr. 0.062 3M/3stn Msd 0.2

01/14410
OCT 22 155839.6s 37.06S 179.98W 33km M=4.1
0.4 0.02 0.03 R
Rsd 0.1s 11ph/8stn Dmin 192km Az.gap 304°
Corr. -0.160 15M/13stn Msd 0.2

01/14411
OCT 22 160619.8s 37.23S 179.89W 33km M=3.6
0.0 0.00 0.00 R
Rsd 0.0s 3ph/2stn Dmin 288km Az.gap 340°
Corr. 0.215 1M/1stn Msd N.D.

01/14412
OCT 22 170511.7s 37.48S 179.76W 33km M=3.9
2.3 0.15 0.14 R
Rsd 0.5s 11ph/9stn Dmin 187km Az.gap 331°
Corr. 0.472 11M/9stn Msd 0.4

01/14420
OCT 22 185338.1s 37.38S 179.75W 33km M=3.9
0.4 0.05 0.03 R
Rsd 0.1s 5ph/3stn Dmin 192km Az.gap 340°
Corr. -0.198 3M/2stn Msd 0.2

01/14425
OCT 22 205011.6s 36.92S 179.89E 33km M=3.9
1.2 0.14 0.10 R
Rsd 0.3s 6ph/4stn Dmin 193km Az.gap 341°
Corr. -0.552 4M/3stn Msd 0.2

01/14431
OCT 23 020410.6s 37.31S 179.89W 33km M=4.0
0.5 0.04 0.04 R
Rsd 0.2s 9ph/6stn Dmin 184km Az.gap 332°
Corr. -0.257 12M/10stn Msd 0.3

01/14438
OCT 23 050539.1s 38.32S 176.82E 72km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 24ph/18stn Dmin 25km Az.gap 62°
Corr. 0.088 9M/7stn Msd 0.2 1↑

01/14439
OCT 23 060832.6s 36.92S 179.89E 33km M=3.7
0.7 0.04 0.05 R
Rsd 0.3s 8ph/5stn Dmin 193km Az.gap 307°
Corr. 0.002 4M/4stn Msd 0.2

01/14445
OCT 23 093246.5s 45.33S 166.60E 12km M=3.5
0.9 0.03 0.05 R
Rsd 0.5s 9ph/5stn Dmin 46km Az.gap 295°
Corr. 0.169 11M/7stn Msd 0.1 1↓

01/14447
OCT 23 100829.9s 45.28S 166.79E 12km M=3.5
0.5 0.02 0.03 R
Rsd 0.2s 14ph/8stn Dmin 35km Az.gap 263°
Corr. 0.067 12M/7stn Msd 0.2 1↓

01/14448
OCT 23 111829.6s 37.18S 179.85W 33km M=3.7
0.3 0.05 0.02 R
Rsd 0.1s 11ph/7stn Dmin 194km Az.gap 339°
Corr. -0.605 5M/5stn Msd 0.2

01/14450
OCT 23 123220.0s 37.05S 179.90W 33km M=3.8
1.2 0.06 0.09 R
Rsd 0.5s 9ph/7stn Dmin 199km Az.gap 309°
Corr. -0.181 7M/7stn Msd 0.3

01/14451
OCT 23 130512.1s 36.92S 180.00W 33km M=4.0
0.9 0.05 0.07 R
Rsd 0.3s 10ph/7stn Dmin 201km Az.gap 306°
Corr. -0.079 12M/11stn Msd 0.2

01/14458
OCT 23 152643.2s 45.18S 166.96E 12km M=3.8
0.7 0.02 0.04 R
Rsd 0.4s 11ph/8stn Dmin 35km Az.gap 252°
Corr. -0.088 16M/9stn Msd 0.2 1↓

01/14460
OCT 23 153744.8s 45.22S 166.81E 12km M=4.9
0.6 0.02 0.03 R
Rsd 0.2s 12ph/8stn Dmin 39km Az.gap 263°
Corr. -0.198 25M/13stn Msd 0.2 1↓

01/14463
OCT 23 154357.8s 45.20S 166.85E 12km M=3.8
0.9 0.02 0.06 R
Rsd 0.4s 12ph/7stn Dmin 38km Az.gap 266°
Corr. 0.070 9M/6stn Msd 0.2 1↑

01/14469
OCT 23 180837.6s 36.60S 179.68E 33km M=3.5
1.3 0.13 0.13 R
Rsd 0.3s 6ph/4stn Dmin 207km Az.gap 347°
Corr. -0.574 4M/4stn Msd 0.3

01/14473
OCT 23 193838.3s 38.55S 175.85E 165km M=5.4
0.3 0.01 0.01 2
Rsd 0.2s 47ph/37stn Dmin 16km Az.gap 83°
Corr. -0.276 13M/7stn Msd 0.3 17↑ 11↓

01/14474
OCT 23 194014.4s 45.21S 166.91E 12km M=4.2
0.7 0.02 0.05 R
Rsd 0.3s 13ph/8stn Dmin 35km Az.gap 261°
Corr. -0.231 9M/6stn Msd 0.2 1↓

01/14475
OCT 23 195053.1s 45.18S 166.96E 12km M=3.9
0.4 0.01 0.02 R
Rsd 0.2s 13ph/8stn Dmin 35km Az.gap 250°
Corr. -0.273 8M/5stn Msd 0.1 1↓

01/14477
OCT 23 201118.9s 37.40S 179.86W 33km M=3.7
0.9 0.12 0.06 R
Rsd 0.3s 6ph/4stn Dmin 182km Az.gap 340°
Corr. -0.446 3M/3stn Msd 0.3

01/14480
OCT 23 213949.9s 38.67S 175.82E 141km M=3.6
0.5 0.02 0.02 4
Rsd 0.2s 11ph/8stn Dmin 44km Az.gap 208°
Corr. -0.528 8M/6stn Msd 0.1

01/14481
OCT 23 220040.2s 45.18S 166.95E 12km M=4.2
0.3 0.01 0.02 R
Rsd 0.2s 13ph/8stn Dmin 36km Az.gap 251°
Corr. -0.079 12M/7stn Msd 0.1 1↓

01/14482
OCT 23 230354.0s 36.75S 179.60E 12km M=3.8
1.1 0.06 0.09 R
Rsd 0.4s 5ph/3stn Dmin 189km Az.gap 310°
Corr. -0.190 3M/3stn Msd 0.2

01/14484
OCT 24 001910.9s 37.26S 179.91W 33km M=3.8
0.8 0.09 0.05 R
Rsd 0.3s 5ph/3stn Dmin 185km Az.gap 341°
Corr. -0.320 2M/2stn Msd 0.0

01/14486
OCT 24 013129.5s 37.50S 179.58W 33km M=3.6
1.1 0.15 0.07 R
Rsd 0.4s 5ph/3stn Dmin 201km Az.gap 336°
Corr. -0.316 3M/3stn Msd 0.3

01/14488
OCT 24 021052.1s 36.94S 176.70E 33km M=4.0
0.9 0.06 0.04 R
Rsd 0.5s 9ph/6stn Dmin 151km Az.gap 289°
Corr. -0.077 4M/4stn Msd 0.2

01/14494
OCT 24 045817.7s 36.69S 179.26W 33km M=4.3
0.6 0.08 0.05 R
Rsd 0.2s 5ph/3stn Dmin 268km Az.gap 345°
Corr. -0.694 3M/2stn Msd 0.2

01/14495
OCT 24 051929.4s 37.29S 179.83W 33km M=3.9
1.8 0.14 0.14 R
Rsd 0.5s 5ph/3stn Dmin 190km Az.gap 325°
Corr. -0.622 2M/2stn Msd 0.1

01/14498
OCT 24 074839.1s 37.21S 179.80W 33km M=3.9
0.8 0.09 0.05 R
Rsd 0.3s 6ph/3stn Dmin 196km Az.gap 341°
Corr. -0.413 2M/2stn Msd 0.2 1↑

01/14504
OCT 24 092026.1s 41.58S 174.40E 8km M=3.6
0.1 0.01 0.01 2
Rsd 0.2s 27ph/21stn Dmin 25km Az.gap 134°
Corr. -0.602 14M/8stn Msd 0.1 9↑ 2↓

01/14512
OCT 24 105238.8s 38.58S 176.00E 143km M=4.0
0.3 0.02 0.01 3
Rsd 0.2s 16ph/11stn Dmin 61km Az.gap 201°
Corr. -0.356 12M/9stn Msd 0.3 4↑ 5↓

01/14513
OCT 24 105847.8s 39.78S 175.28E 77km M=3.6
0.3 0.01 0.01 5
Rsd 0.2s 37ph/30stn Dmin 61km Az.gap 122°
Corr. 0.479 15M/11stn Msd 0.2 2↑ 3↓

01/14517
OCT 24 121431.3s 37.42S 179.73W 33km M=3.9
1.0 0.08 0.06 R
Rsd 0.4s 7ph/4stn Dmin 192km Az.gap 337°
Corr. -0.147 3M/3stn Msd 0.2

01/14518
OCT 24 124638.9s 37.96S 176.07E 193km M=4.6
0.5 0.02 0.02 5
Rsd 0.2s 31ph/26stn Dmin 27km Az.gap 107°
Corr. 0.214 11M/6stn Msd 0.3 7↑ 4↓

01/14523
OCT 24 142845.2s 37.33S 179.81W 33km M=3.6
1.6 0.16 0.08 R
Rsd 0.6s 6ph/4stn Dmin 190km Az.gap 338°
Corr. -0.065 3M/3stn Msd 0.2

01/14524
OCT 24 143555.3s 41.58S 174.41E 10km M=4.1
0.1 0.01 0.01 1
Rsd 0.2s 33ph/22stn Dmin 25km Az.gap 135°
Corr. -0.719 20M/10stn Msd 0.2 10↑ 7↓

01/14531
OCT 24 161948.3s 37.19S 179.97W 33km M=3.9
0.4 0.02 0.03 R
Rsd 0.1s 14ph/11stn Dmin 185km Az.gap 303°
Corr. -0.316 16M/16stn Msd 0.3 1↑

01/14534
OCT 24 174809.1s 42.05S 173.24E 8km M=4.3
0.1 0.01 0.01 1
Rsd 0.2s 26ph/19stn Dmin 8km Az.gap 80°
Corr. 0.276 24M/12stn Msd 0.3 5↑ 2↓

01/14535
OCT 24 175624.1s 37.57S 179.78W 33km M=3.6
0.9 0.09 0.05 R
Rsd 0.3s 8ph/6stn Dmin 182km Az.gap 335°
Corr. 0.088 5M/5stn Msd 0.3

01/14552
OCT 25 003419.5s 36.58S 178.27E 201km M=3.8
0.7 0.09 0.05 6
Rsd 0.3s 10ph/7stn Dmin 166km Az.gap 322°
Corr. -0.282 6M/6stn Msd 0.2

01/14554
OCT 25 024314.2s 37.12S 179.96E 33km M=3.8
1.0 0.19 0.12 R
Rsd 0.3s 4ph/2stn Dmin 184km Az.gap 352°
Corr. -0.819 2M/2stn Msd 0.2

01/14557
OCT 25 041909.8s 37.37S 179.83W 33km M=3.6
0.6 0.08 0.04 R
Rsd 0.2s 5ph/3stn Dmin 186km Az.gap 340°
Corr. -0.345 2M/2stn Msd 0.0

01/14558
OCT 25 042337.9s 37.28S 179.97W 33km M=3.8
0.6 0.02 0.04 R
Rsd 0.2s 8ph/5stn Dmin 180km Az.gap 307°
Corr. 0.089 7M/7stn Msd 0.2

01/14561
OCT 25 061032.6s 39.17S 174.87E 184km M=3.9
0.5 0.02 0.02 4
Rsd 0.2s 27ph/21stn Dmin 44km Az.gap 156°
Corr. 0.184 10M/10stn Msd 0.2 1↑

01/14563
OCT 25 063050.2s 37.16S 179.91W 33km M=4.1
0.4 0.02 0.03 R
Rsd 0.2s 10ph/7stn Dmin 191km Az.gap 304°
Corr. -0.112 10M/8stn Msd 0.3

01/14564
OCT 25 065354.4s 37.09S 179.99W 33km M=4.9
0.7 0.04 0.05 R
Rsd 0.2s 19ph/15stn Dmin 189km Az.gap 304°
Corr. 0.010 21M/11stn Msd 0.2

01/14565
OCT 25 070036.7s 37.31S 179.86W 33km M=3.6
0.3 0.03 0.02 R
Rsd 0.1s 5ph/3stn Dmin 187km Az.gap 340°
Corr. -0.226 2M/2stn Msd 0.3

01/14569
OCT 25 090743.5s 36.44S 179.43W 33km M=4.1
0.8 0.12 0.11 R
Rsd 0.2s 5ph/3stn Dmin 274km Az.gap 345°
Corr. -0.854 2M/2stn Msd 0.1

01/14575
OCT 25 104651.1s 37.12S 179.95E 33km M=4.3
0.4 0.02 0.03 R
Rsd 0.1s 12ph/8stn Dmin 183km Az.gap 303°
Corr. 0.495 16M/12stn Msd 0.2

01/14580
OCT 25 150919.2s 37.36S 179.27W 33km M=3.7
0.6 0.06 0.04 R
Rsd 0.2s 10ph/7stn Dmin 232km Az.gap 338°
Corr. -0.297 3M/3stn Msd 0.3

01/14583
OCT 25 175233.3s 42.49S 173.78E 12km M=3.7
0.2 0.01 0.01 1
Rsd 0.2s 32ph/23stn Dmin 10km Az.gap 165°
Corr. -0.360 10M/5stn Msd 0.4 1↑ 3↓
Felt Kaikoura (90).

01/14591
OCT 25 210458.9s 37.07S 179.81W 33km M=3.9
0.5 0.04 0.03 R
Rsd 0.2s 10ph/7stn Dmin 204km Az.gap 305°
Corr. -0.203 4M/3stn Msd 0.2

01/14599
OCT 26 000205.8s 37.18S 179.98W 33km M=3.7
0.2 0.02 0.01 R
Rsd 0.1s 6ph/4stn Dmin 185km Az.gap 340°
Corr. -0.265 3M/3stn Msd 0.2

01/14600
OCT 26 000509.0s 37.07S 179.96E 33km M=3.6
0.4 0.02 0.03 R
Rsd 0.1s 6ph/4stn Dmin 187km Az.gap 319°
Corr. -0.103 3M/3stn Msd 0.2

01/14602
OCT 26 002526.8s 37.41S 179.53W 33km M=3.6
0.7 0.08 0.04 R
Rsd 0.2s 8ph/6stn Dmin 208km Az.gap 337°
Corr. -0.138 2M/2stn Msd 0.3

01/14606
OCT 26 012608.2s 36.96S 180.00E 33km M=4.7
0.6 0.03 0.04 R
Rsd 0.2s 19ph/15stn Dmin 197km Az.gap 305°
Corr. 0.239 16M/10stn Msd 0.2 1↑ 1↓

01/14607
OCT 26 012813.8s 37.10S 179.98E 33km M=4.1
1.1 0.07 0.07 R
Rsd 0.4s 11ph/8stn Dmin 186km Az.gap 303°
Corr. 0.080 7M/5stn Msd 0.2

01/14608
OCT 26 012933.8s 37.03S 179.96E 33km M=4.1
0.8 0.04 0.05 R
Rsd 0.3s 12ph/8stn Dmin 189km Az.gap 304°
Corr. 0.302 9M/7stn Msd 0.3

01/14610
OCT 26 015014.4s 37.09S 179.94E 33km M=3.5
0.4 0.05 0.03 R
Rsd 0.1s 6ph/4stn Dmin 185km Az.gap 340°
Corr. -0.577 2M/2stn Msd 0.2

01/14611
OCT 26 020035.5s 38.49S 176.28E 175km M=3.6
0.5 0.03 0.03 4
Rsd 0.1s 10ph/8stn Dmin 77km Az.gap 203°
Corr. -0.718 6M/6stn Msd 0.2 1↑

01/14616
OCT 26 030546.3s 37.70S 176.62E 148km M=3.7
0.2 0.02 0.01 2
Rsd 0.1s 14ph/10stn Dmin 76km Az.gap 252°
Corr. -0.282 10M/10stn Msd 0.2 1↑

01/14628
OCT 26 072533.1s 37.01S 179.99E 33km M=4.2
0.8 0.04 0.06 R
Rsd 0.3s 14ph/11stn Dmin 194km Az.gap 305°
Corr. -0.253 26M/24stn Msd 0.2 1↑ 1↓

01/14634
OCT 26 090013.9s 37.20S 179.80W 33km M=4.0
0.5 0.02 0.04 R
Rsd 0.2s 11ph/8stn Dmin 197km Az.gap 309°
Corr. 0.088 8M/7stn Msd 0.3

01/14636
OCT 26 090414.5s 37.18S 179.87W 33km M=3.7
0.6 0.03 0.05 R
Rsd 0.2s 10ph/6stn Dmin 193km Az.gap 310°
Corr. 0.094 6M/6stn Msd 0.3

01/14638
OCT 26 091749.0s 36.89S 179.96W 33km M=4.4
0.5 0.02 0.04 R
Rsd 0.1s 18ph/15stn Dmin 205km Az.gap 306°
Corr. 0.388 27M/23stn Msd 0.2

01/14640
OCT 26 103923.3s 37.69S 176.41E 189km M=3.5
1.2 0.07 0.05 9
Rsd 0.4s 8ph/7stn Dmin 80km Az.gap 229°
Corr. 0.245 3M/3stn Msd 0.2

01/14647
OCT 26 122805.0s 37.05S 179.92W 33km M=3.5
0.3 0.03 0.02 R
Rsd 0.1s 7ph/5stn Dmin 197km Az.gap 341°
Corr. -0.450 2M/2stn Msd 0.1

01/14648
OCT 26 125044.4s 36.95S 179.05W 33km M=3.8
0.4 0.02 0.03 R
Rsd 0.1s 11ph/8stn Dmin 269km Az.gap 311°
Corr. -0.094 8M/8stn Msd 0.2

01/14666
OCT 26 195648.3s 37.03S 179.96E 33km M=3.9
0.3 0.05 0.03 R
Rsd 0.1s 10ph/7stn Dmin 190km Az.gap 337°
Corr. -0.694 6M/6stn Msd 0.2

01/14667
OCT 26 200718.9s 37.08S 179.81E 33km M=3.8
0.4 0.02 0.03 R
Rsd 0.2s 11ph/7stn Dmin 176km Az.gap 305°
Corr. -0.046 8M/6stn Msd 0.2

01/14672
OCT 26 211012.8s 37.13S 179.95W 33km M=3.8
0.6 0.03 0.05 R
Rsd 0.2s 10ph/6stn Dmin 190km Az.gap 308°
Corr. -0.181 6M/6stn Msd 0.1

01/14673
OCT 26 213242.8s 35.35S 178.85E 222km M=4.9
0.4 0.04 0.05 9
Rsd 0.2s 19ph/15stn Dmin 285km Az.gap 310°
Corr. 0.725 17M/12stn Msd 0.3

01/14677
OCT 27 004009.6s 40.45S 176.80E 33km M=3.9
0.1 0.01 0.01 R
Rsd 0.2s 38ph/28stn Dmin 47km Az.gap 196°
Corr. -0.684 14M/7stn Msd 0.3 2↑ 1↓

01/14679
OCT 27 004310.6s 37.29S 179.78W 33km M=3.9
0.4 0.04 0.02 R
Rsd 0.1s 10ph/7stn Dmin 193km Az.gap 332°
Corr. -0.272 14M/12stn Msd 0.2 1↑ 1↓

01/14690
OCT 27 072034.2s 37.73S 179.75W 33km M=3.6
1.4 0.08 0.09 R
Rsd 0.5s 6ph/4stn Dmin 180km Az.gap 325°
Corr. -0.107 2M/2stn Msd 0.2

01/14697
OCT 27 093253.2s 36.69S 179.28W 33km M=3.6
0.8 0.21 0.13 R
Rsd 0.2s 4ph/2stn Dmin 267km Az.gap 354°
Corr. -0.896 2M/2stn Msd 0.2

01/14698
OCT 27 094238.0s 37.25S 178.99W 33km M=3.8
0.7 0.56 0.21 R
Rsd 0.2s 5ph/2stn Dmin 259km Az.gap 358°
Corr. -0.977 2M/2stn Msd 0.3

01/14711
OCT 27 123908.1s 36.54S 177.31E 268km M=3.7
0.5 0.06 0.06 4
Rsd 0.2s 12ph/10stn Dmin 190km Az.gap 296°
Corr. -0.475 7M/7stn Msd 0.2

01/14714
OCT 27 133414.8s 36.73S 178.91W 33km M=3.7
0.9 0.09 0.09 R
Rsd 0.2s 6ph/4stn Dmin 292km Az.gap 343°
Corr. -0.737 4M/4stn Msd 0.2

01/14721
OCT 27 164635.1s 37.35S 179.99W 33km M=4.2
0.5 0.06 0.05 R
Rsd 0.1s 14ph/12stn Dmin 175km Az.gap 300°
Corr. -0.532 27M/24stn Msd 0.2 1↓

01/14729
OCT 27 192548.2s 37.59S 179.92W 33km M=3.9
0.4 0.03 0.03 R
Rsd 0.2s 9ph/5stn Dmin 169km Az.gap 330°
Corr. -0.213 3M/3stn Msd 0.2

01/14735
OCT 27 215442.0s 36.60S 179.13W 33km M=4.2
0.8 0.04 0.06 R
Rsd 0.2s 10ph/7stn Dmin 283km Az.gap 320°
Corr. -0.179 7M/6stn Msd 0.2

01/14742
OCT 28 011015.1s 37.12S 179.84W 33km M=4.0
0.5 0.03 0.04 R
Rsd 0.2s 10ph/7stn Dmin 198km Az.gap 304°
Corr. -0.240 10M/8stn Msd 0.3

01/14749
OCT 28 044552.2s 40.97S 174.18E 58km M=3.7
0.1 0.01 0.01 2
Rsd 0.2s 43ph/32stn Dmin 28km Az.gap 43°
Corr. -0.220 11M/7stn Msd 0.2 2↑ 4↓

01/14752
OCT 28 053834.8s 37.02S 179.87E 33km M=3.8
1.1 0.05 0.09 R
Rsd 0.4s 7ph/5stn Dmin 184km Az.gap 307°
Corr. -0.239 4M/4stn Msd 0.2

01/14758
OCT 28 064657.2s 40.23S 175.09E 28km M=3.7
0.4 0.01 0.02 5
Rsd 0.4s 34ph/28stn Dmin 63km Az.gap 63°
Corr. -0.338 16M/8stn Msd 0.2 3↑ 5↓

01/14761
OCT 28 080954.6s 39.62S 174.04E 221km M=4.2
0.4 0.02 0.03 4
Rsd 0.2s 34ph/24stn Dmin 131km Az.gap 198°
Corr. -0.666 16M/12stn Msd 0.3 2↑ 2↓

01/14770
OCT 28 124837.6s 36.58S 179.10W 33km M=4.3
0.6 0.04 0.04 R
Rsd 0.2s 11ph/7stn Dmin 287km Az.gap 315°
Corr. -0.329 17M/15stn Msd 0.2

01/14771
OCT 28 131006.6s 37.12S 179.97W 33km M=3.5
0.4 0.04 0.03 R
Rsd 0.1s 5ph/3stn Dmin 189km Az.gap 341°
Corr. -0.538 2M/2stn Msd 0.3

01/14775
OCT 28 160636.0s 38.16S 175.94E 188km M=4.1
0.2 0.03 0.01 2
Rsd 0.1s 21ph/15stn Dmin 100km Az.gap 213°
Corr. -0.650 12M/10stn Msd 0.2

01/14778
OCT 28 193137.4s 45.66S 167.08E 12km M=4.1
0.4 0.01 0.02 R
Rsd 0.3s 12ph/7stn Dmin 23km Az.gap 264°
Corr. 0.561 8M/5stn Msd 0.1 1↑ 1↓

01/14786
OCT 29 012536.2s 37.42S 179.89W 33km M=3.8
1.1 0.13 0.07 R
Rsd 0.4s 5ph/3stn Dmin 178km Az.gap 339°
Corr. -0.346 2M/2stn Msd 0.1

01/14788
OCT 29 024929.9s 37.24S 179.86W 33km M=3.7
0.9 0.13 0.07 R
Rsd 0.3s 5ph/3stn Dmin 191km Az.gap 341°
Corr. -0.619 2M/2stn Msd 0.2

01/14797
OCT 29 074248.5s 38.00S 175.83E 169km M=3.6
0.5 0.03 0.03 4
Rsd 0.2s 13ph/10stn Dmin 42km Az.gap 149°
Corr. -0.208 6M/6stn Msd 0.2 1↑

01/14802
OCT 29 114735.6s 37.49S 179.91W 33km M=4.2
0.2 0.03 0.02 R
Rsd 0.1s 13ph/10stn Dmin 174km Az.gap 305°
Corr. -0.529 14M/11stn Msd 0.2 1↓

01/14803
OCT 29 123845.0s 37.53S 179.84W 33km M=3.6
0.9 0.11 0.05 R
Rsd 0.3s 5ph/3stn Dmin 178km Az.gap 340°
Corr. -0.232 2M/2stn Msd 0.0

01/14804
OCT 29 125824.5s 34.38S 179.17E 33km M=3.9
0.9 0.08 0.14 R
Rsd 0.3s 4ph/2stn Dmin 418km Az.gap 348°
Corr. -0.618 2M/2stn Msd 0.3

01/14806
OCT 29 133905.0s 37.70S 176.21E 175km M=3.6
0.7 0.05 0.05 5
Rsd 0.2s 9ph/8stn Dmin 101km Az.gap 291°
Corr. -0.518 6M/5stn Msd 0.3

01/14807
OCT 29 134438.8s 37.07S 179.81E 33km M=3.9
0.5 0.02 0.04 R
Rsd 0.2s 12ph/8stn Dmin 177km Az.gap 304°
Corr. -0.269 11M/10stn Msd 0.3

01/14811
OCT 29 150401.5s 36.84S 179.16W 33km M=4.0
0.3 0.03 0.02 R
Rsd 0.1s 5ph/3stn Dmin 266km Az.gap 345°
Corr. -0.559 3M/3stn Msd 0.1

01/14814
OCT 29 154558.9s 36.10S 178.63E 200km M=3.9
0.6 0.09 0.07 10
Rsd 0.2s 7ph/4stn Dmin 222km Az.gap 339°
Corr. -0.468 2M/2stn Msd 0.0

01/14815
OCT 29 162635.0s 37.51S 179.91W 33km M=4.5
0.3 0.02 0.02 R
Rsd 0.1s 19ph/15stn Dmin 173km Az.gap 300°
Corr. -0.287 12M/7stn Msd 0.2 1↓

01/14824
OCT 29 181545.5s 37.65S 179.92W 33km M=3.6
0.6 0.09 0.04 R
Rsd 0.2s 5ph/3stn Dmin 167km Az.gap 338°
Corr. -0.313 2M/2stn Msd 0.2

01/14825
OCT 29 193327.4s 37.03S 179.80W 33km M=3.9
0.7 0.04 0.05 R
Rsd 0.3s 8ph/6stn Dmin 207km Az.gap 310°
Corr. -0.254 5M/5stn Msd 0.2

01/14827
OCT 29 204647.0s 37.63S 179.95W 33km M=3.6
0.9 0.11 0.05 R
Rsd 0.2s 4ph/3stn Dmin 165km Az.gap 339°
Corr. -0.145 2M/2stn Msd 0.2

01/14829
OCT 29 214004.1s 37.06S 179.90E 33km M=3.8
0.7 0.03 0.05 R
Rsd 0.3s 7ph/4stn Dmin 183km Az.gap 307°
Corr. -0.112 2M/2stn Msd 0.2

01/14831
OCT 29 224415.1s 37.10S 179.83E 33km M=4.5
0.6 0.03 0.04 R
Rsd 0.3s 17ph/13stn Dmin 176km Az.gap 303°
Corr. 0.021 9M/5stn Msd 0.1

01/14832
OCT 29 225116.2s 37.07S 179.87E 33km M=3.9
0.8 0.04 0.05 R
Rsd 0.3s 9ph/5stn Dmin 181km Az.gap 307°
Corr. 0.125 5M/4stn Msd 0.1

01/14834
OCT 30 003405.6s 37.10S 179.82W 33km M=3.6
1.2 0.16 0.08 R
Rsd 0.4s 6ph/3stn Dmin 201km Az.gap 341°
Corr. -0.547 2M/2stn Msd 0.2

01/14837
OCT 30 023714.4s 37.09S 179.84E 33km M=3.9
0.8 0.04 0.06 R
Rsd 0.3s 6ph/4stn Dmin 178km Az.gap 306°
Corr. -0.099 2M/2stn Msd 0.2

01/14838
OCT 30 030251.6s 37.07S 179.97E 33km M=4.2
0.5 0.02 0.04 R
Rsd 0.2s 7ph/4stn Dmin 188km Az.gap 308°
Corr. -0.067 5M/3stn Msd 0.2

01/14841
OCT 30 030719.4s 37.19S 179.95W 33km M=3.8
0.9 0.12 0.08 R
Rsd 0.3s 5ph/3stn Dmin 187km Az.gap 341°
Corr. -0.618 2M/2stn Msd 0.2

01/14842
OCT 30 040950.4s 37.15S 179.66W 33km M=3.9
0.1 0.01 0.01 R
Rsd 0.0s 5ph/3stn Dmin 210km Az.gap 342°
Corr. -0.512 2M/2stn Msd 0.1

01/14843
OCT 30 050400.6s 37.02S 179.76W 33km M=3.5
0.4 0.06 0.04 R
Rsd 0.1s 5ph/3stn Dmin 211km Az.gap 342°
Corr. -0.691 2M/2stn Msd 0.2

01/14847
OCT 30 102920.1s 37.55S 179.87W 33km M=3.6
0.5 0.04 0.03 R
Rsd 0.2s 10ph/7stn Dmin 175km Az.gap 330°
Corr. -0.153 5M/5stn Msd 0.4

01/14849
OCT 30 124234.9s 35.59S 178.90E 219km M=3.9
0.3 0.15 0.04 22
Rsd 0.1s 7ph/3stn Dmin 282km Az.gap 344°
Corr. 0.189 2M/2stn Msd 0.1

01/14851
OCT 30 132102.1s 37.17S 179.94W 33km M=4.0
0.7 0.05 0.06 R
Rsd 0.3s 7ph/4stn Dmin 188km Az.gap 309°
Corr. -0.211 4M/3stn Msd 0.2

01/14852
OCT 30 132724.2s 36.43S 177.40E 241km M=3.6
0.5 0.09 0.06 8
Rsd 0.2s 5ph/3stn Dmin 198km Az.gap 331°
Corr. -0.205 2M/2stn Msd 0.4

01/14854
OCT 30 153524.7s 37.17S 179.92E 33km M=5.1
0.5 0.03 0.04 R
Rsd 0.2s 20ph/16stn Dmin 178km Az.gap 302°
Corr. -0.122 24M/12stn Msd 0.2 1↓

01/14855
OCT 30 154341.9s 37.16S 179.98E 33km M=4.0
0.8 0.05 0.05 R
Rsd 0.4s 11ph/7stn Dmin 183km Az.gap 303°
Corr. -0.107 9M/7stn Msd 0.1

01/14864
OCT 30 224428.8s 37.56S 179.86W 33km M=4.2
0.5 0.05 0.04 R
Rsd 0.2s 6ph/3stn Dmin 176km Az.gap 339°
Corr. -0.280 2M/2stn Msd 0.0

01/14866
OCT 31 000044.6s 37.27S 179.16W 33km M=4.1
0.3 0.03 0.02 R
Rsd 0.1s 7ph/3stn Dmin 244km Az.gap 344°
Corr. -0.437 2M/2stn Msd 0.2

01/14867
OCT 31 000345.2s 37.04S 179.90E 33km M=3.8
0.7 0.03 0.05 R
Rsd 0.3s 6ph/4stn Dmin 185km Az.gap 307°
Corr. -0.059 3M/3stn Msd 0.1

01/14874
OCT 31 080817.8s 37.12S 179.83W 33km M=3.9
0.5 0.08 0.05 R
Rsd 0.1s 5ph/3stn Dmin 200km Az.gap 341°
Corr. -0.825 2M/2stn Msd 0.2

01/14878
OCT 31 104131.7s 37.11S 179.87E 33km M=4.4
0.5 0.02 0.03 R
Rsd 0.2s 15ph/11stn Dmin 178km Az.gap 302°
Corr. -0.054 8M/5stn Msd 0.1 1↓

01/14879
OCT 31 110126.0s 37.41S 179.86W 33km M=3.7
1.2 0.15 0.07 R
Rsd 0.4s 5ph/3stn Dmin 181km Az.gap 340°
Corr. -0.341 2M/2stn Msd 0.3

01/14880
OCT 31 111244.2s 37.25S 179.61W 33km M=4.0
0.6 0.05 0.04 R
Rsd 0.2s 8ph/5stn Dmin 209km Az.gap 336°
Corr. -0.262 5M/3stn Msd 0.1

01/14881
OCT 31 115802.0s 41.39S 173.25E 87km M=4.0
0.3 0.02 0.01 4
Rsd 0.3s 30ph/21stn Dmin 49km Az.gap 64°
Corr. -0.038 13M/9stn Msd 0.2 3↑ 7↓

01/14882
OCT 31 130349.1s 37.19S 179.62W 33km M=3.6
0.2 0.04 0.02 R
Rsd 0.1s 5ph/3stn Dmin 212km Az.gap 342°
Corr. -0.649 2M/2stn Msd 0.2

01/14883
OCT 31 130654.8s 36.96S 179.77W 33km M=4.1
0.4 0.02 0.03 R
Rsd 0.1s 12ph/9stn Dmin 214km Az.gap 307°
Corr. -0.324 15M/12stn Msd 0.2

01/14884
OCT 31 132931.4s 37.04S 179.68W 33km M=4.1
0.5 0.03 0.04 R
Rsd 0.2s 11ph/8stn Dmin 215km Az.gap 312°
Corr. 0.104 9M/7stn Msd 0.1

01/14885
OCT 31 150903.2s 37.26S 179.63W 33km M=3.5
0.2 0.02 0.01 R
Rsd 0.1s 5ph/3stn Dmin 207km Az.gap 342°
Corr. -0.493 2M/2stn Msd 0.2

01/14890
OCT 31 181845.1s 37.40S 179.35W 33km M=3.6
0.3 0.05 0.02 R
Rsd 0.1s 5ph/3stn Dmin 224km Az.gap 342°
Corr. -0.518 2M/2stn Msd 0.3

01/14892
OCT 31 192226.9s 43.08S 173.09E 12km M=3.6
0.2 0.01 0.03 R
Rsd 0.3s 13ph/9stn Dmin 78km Az.gap 162°
Corr. -0.773 21M/16stn Msd 0.2 1↓

01/14893
OCT 31 192607.8s 40.63S 173.31E 159km M=4.1
0.4 0.01 0.01 3
Rsd 0.3s 34ph/24stn Dmin 56km Az.gap 130°
Corr. -0.226 8M/4stn Msd 0.2 11↑ 1↓

01/14894
OCT 31 210436.3s 35.67S 178.93E 274km M=4.1
0.7 0.10 0.11 6
Rsd 0.2s 13ph/11stn Dmin 273km Az.gap 340°
Corr. -0.612 9M/9stn Msd 0.1

01/14896
OCT 31 230524.0s 37.12S 179.85W 33km M=3.7
0.3 0.04 0.02 R
Rsd 0.1s 5ph/3stn Dmin 198km Az.gap 341°
Corr. -0.553 2M/2stn Msd 0.2

01/14901
NOV 01 015713.1s 39.45S 177.01E 33km M=3.5
0.1 0.01 0.01 R
Rsd 0.3s 16ph/11stn Dmin 66km Az.gap 141°
Corr. -0.287 8M/7stn Msd 0.3

01/14904
NOV 01 030208.5s 37.25S 179.91W 33km M=3.6
0.4 0.05 0.03 R
Rsd 0.1s 5ph/3stn Dmin 186km Az.gap 340°
Corr. -0.458 2M/2stn Msd 0.2

01/14908
NOV 01 074754.7s 37.12S 179.98E 33km M=4.7
0.4 0.02 0.02 R
Rsd 0.1s 15ph/10stn Dmin 185km Az.gap 303°
Corr. -0.248 15M/8stn Msd 0.1 1↓

01/14911
NOV 01 085739.4s 38.27S 176.21E 132km M=3.7
1.2 0.06 0.05 11
Rsd 0.5s 11ph/7stn Dmin 78km Az.gap 137°
Corr. 0.265 9M/9stn Msd 0.2 1↓

01/14912
NOV 01 101742.8s 38.21S 175.56E 164km M=3.6
0.5 0.03 0.04 6
Rsd 0.2s 16ph/11stn Dmin 136km Az.gap 248°
Corr. -0.614 5M/5stn Msd 0.2

01/14913
NOV 01 103448.0s 37.17S 179.79W 33km M=3.5
1.3 0.16 0.08 R
Rsd 0.4s 5ph/3stn Dmin 199km Az.gap 341°
Corr. -0.405 2M/2stn Msd 0.1

01/14921
NOV 01 182917.8s 37.31S 179.67W 33km M=4.3
0.4 0.03 0.03 R
Rsd 0.2s 8ph/4stn Dmin 201km Az.gap 337°
Corr. -0.387 6M/3stn Msd 0.2

01/14923
NOV 01 183328.3s 37.37S 179.81W 33km M=3.8
0.7 0.06 0.04 R
Rsd 0.2s 5ph/4stn Dmin 188km Az.gap 341°
Corr. -0.335 3M/3stn Msd 0.3

01/14924
NOV 01 191256.4s 37.08S 179.71W 33km M=4.2
0.5 0.03 0.04 R
Rsd 0.2s 7ph/4stn Dmin 211km Az.gap 312°
Corr. -0.323 6M/4stn Msd 0.2

01/14926
NOV 01 195503.6s 37.07S 179.78W 33km M=3.6
0.6 0.07 0.05 R
Rsd 0.2s 5ph/3stn Dmin 207km Az.gap 342°
Corr. -0.539 2M/2stn Msd 0.0

01/14927
NOV 01 195530.0s 37.15S 179.78W 33km M=4.3
0.9 0.11 0.06 R
Rsd 0.3s 5ph/3stn Dmin 201km Az.gap 341°
Corr. -0.508 2M/2stn Msd 0.3

01/14929
NOV 01 202605.5s 37.23S 179.72W 33km M=4.0
0.7 0.09 0.05 R
Rsd 0.3s 6ph/4stn Dmin 201km Az.gap 338°
Corr. -0.407 6M/4stn Msd 0.3

01/14930
NOV 01 203505.3s 37.12S 179.79W 33km M=4.2
1.1 0.06 0.08 R
Rsd 0.5s 9ph/5stn Dmin 202km Az.gap 309°
Corr. -0.251 6M/4stn Msd 0.2

01/14931
NOV 01 203619.1s 37.39S 179.82W 33km M=3.7
0.4 0.04 0.03 R
Rsd 0.1s 5ph/3stn Dmin 186km Az.gap 337°
Corr. -0.572 3M/3stn Msd 0.3

01/14932
NOV 01 203743.6s 37.01S 179.76W 33km M=4.5
0.6 0.03 0.04 R
Rsd 0.2s 11ph/8stn Dmin 212km Az.gap 306°
Corr. -0.108 13M/11stn Msd 0.3

01/14933
NOV 01 205331.4s 37.00S 179.85W 33km M=4.5
0.4 0.02 0.03 R
Rsd 0.1s 15ph/11stn Dmin 206km Az.gap 305°
Corr. -0.140 17M/15stn Msd 0.2 1↑

01/14934
NOV 01 212251.6s 37.19S 179.83W 33km M=4.1
0.2 0.02 0.01 R
Rsd 0.1s 5ph/3stn Dmin 195km Az.gap 341°
Corr. -0.320 2M/2stn Msd 0.3

01/14936
NOV 01 224339.0s 40.27S 173.54E 182km M=3.9
0.4 0.02 0.01 3
Rsd 0.2s 33ph/24stn Dmin 67km Az.gap 176°
Corr. -0.259 11M/8stn Msd 0.3 1↑

01/14937
NOV 01 224354.1s 36.90S 179.98E 33km M=5.1
0.7 0.04 0.05 R
Rsd 0.2s 22ph/17stn Dmin 200km Az.gap 306°
Corr. 0.029 22M/11stn Msd 0.2

01/14938
NOV 01 224614.9s 36.92S 179.96E 33km M=4.5
0.4 0.02 0.03 R
Rsd 0.2s 10ph/6stn Dmin 197km Az.gap 305°
Corr. 0.074 14M/9stn Msd 0.2

01/14939
NOV 01 224928.1s 36.85S 177.35E 217km M=4.1
0.5 0.05 0.05 5
Rsd 0.2s 7ph/4stn Dmin 158km Az.gap 322°
Corr. -0.206 6M/6stn Msd 0.3 1↑

01/14940
NOV 01 225123.3s 37.06S 179.74W 33km M=3.7
0.3 0.04 0.02 R
Rsd 0.1s 5ph/3stn Dmin 210km Az.gap 342°
Corr. -0.373 2M/2stn Msd 0.1

01/14942
NOV 01 233801.4s 37.15S 179.85W 33km M=4.0
0.1 0.01 0.01 R
Rsd 0.0s 5ph/3stn Dmin 196km Az.gap 341°
Corr. -0.397 2M/2stn Msd 0.3

01/14945
NOV 02 014325.7s 36.89S 178.90W 33km M=4.2
0.3 0.03 0.03 R
Rsd 0.1s 6ph/3stn Dmin 284km Az.gap 346°
Corr. -0.649 4M/2stn Msd 0.1

01/14953
NOV 02 045414.7s 37.54S 176.58E 196km M=4.4
0.4 0.02 0.02 3
Rsd 0.2s 32ph/26stn Dmin 50km Az.gap 130°
Corr. 0.613 10M/5stn Msd 0.1 8↑ 1↓

01/14954
NOV 02 050156.2s 36.94S 179.84W 33km M=4.2
0.6 0.03 0.05 R
Rsd 0.2s 6ph/4stn Dmin 210km Az.gap 311°
Corr. 0.041 3M/3stn Msd 0.2

01/14955
NOV 02 050633.2s 41.19S 174.57E 34km M=4.9
0.1 0.01 0.01 1
Rsd 0.2s 47ph/42stn Dmin 12km Az.gap 65°
Corr. -0.355 9M/5stn Msd 0.2 19↑ 9↓
Felt from Palmerston North (62) to Blenheim (77).

01/14960
NOV 02 051255.1s 41.19S 174.57E 34km M=3.6
0.1 0.01 0.01 1
Rsd 0.2s 24ph/21stn Dmin 12km Az.gap 91°
Corr. -0.253 10M/6stn Msd 0.2 7↑ 3↓

01/14978
NOV 02 075617.1s 36.99S 179.84W 33km M=3.9
0.8 0.04 0.06 R
Rsd 0.3s 6ph/4stn Dmin 207km Az.gap 310°
Corr. 0.021 3M/3stn Msd 0.2

01/14980
NOV 02 084826.4s 37.04S 179.91W 33km M=3.9
0.9 0.03 0.06 R
Rsd 0.3s 10ph/7stn Dmin 199km Az.gap 310°
Corr. 0.283 2M/2stn Msd 0.2

01/14983
NOV 02 101707.9s 39.01S 174.79E 21km M=3.3
0.1 0.01 0.00 2
Rsd 0.2s 39ph/34stn Dmin 46km Az.gap 102°
Corr. -0.421 9M/5stn Msd 0.2 6↑ 6↓
Felt in northern Taranaki.

01/14986
NOV 02 103231.5s 36.16S 178.38E 253km M=4.0
1.1 0.20 0.12 15
Rsd 0.4s 7ph/5stn Dmin 213km Az.gap 328°
Corr. -0.473 3M/3stn Msd 0.2

01/15001
NOV 02 132207.8s 39.95S 174.42E 136km M=3.6
0.3 0.01 0.02 3
Rsd 0.3s 43ph/31stn Dmin 47km Az.gap 91°
Corr. -0.402 8M/4stn Msd 0.2 10↑ 3↓

01/15002
NOV 02 133439.5s 37.09S 179.63W 33km M=3.7
0.1 0.01 0.00 R
Rsd 0.0s 5ph/3stn Dmin 216km Az.gap 342°
Corr. -0.546 2M/2stn Msd 0.1

01/15009
NOV 02 152122.6s 37.65S 176.30E 209km M=3.7
0.5 0.04 0.03 4
Rsd 0.2s 9ph/6stn Dmin 98km Az.gap 244°
Corr. -0.151 7M/7stn Msd 0.2

01/15021
NOV 02 183550.8s 37.19S 179.64W 33km M=3.5
0.5 0.07 0.04 R
Rsd 0.2s 5ph/3stn Dmin 210km Az.gap 342°
Corr. -0.653 2M/2stn Msd 0.2

01/15035
NOV 03 003500.9s 37.19S 179.68W 33km M=3.9
0.6 0.08 0.04 R
Rsd 0.2s 5ph/3stn Dmin 207km Az.gap 342°
Corr. -0.459 2M/2stn Msd 0.2

01/15041
NOV 03 034023.7s 36.92S 179.84W 33km M=5.0
0.6 0.03 0.04 R
Rsd 0.2s 20ph/17stn Dmin 212km Az.gap 307°
Corr. -0.274 22M/11stn Msd 0.2 1↑

01/15042
NOV 03 040856.3s 37.17S 179.70W 33km M=3.6
0.3 0.04 0.02 R
Rsd 0.1s 5ph/3stn Dmin 206km Az.gap 342°
Corr. -0.569 2M/2stn Msd 0.4

01/15044
NOV 03 053711.0s 46.21S 165.59E 33km M=3.9
1.4 0.09 0.09 R
Rsd 0.5s 11ph/7stn Dmin 146km Az.gap 322°
Corr. 0.138 12M/6stn Msd 0.2

01/15047
NOV 03 064452.7s 37.04S 179.88W 33km M=3.7
0.7 0.08 0.05 R
Rsd 0.2s 5ph/3stn Dmin 200km Az.gap 342°
Corr. -0.547 2M/2stn Msd 0.3

01/15052
NOV 03 090716.5s 36.52S 179.01W 33km M=3.5
0.8 0.11 0.07 R
Rsd 0.3s 5ph/3stn Dmin 298km Az.gap 346°
Corr. -0.620 2M/2stn Msd 0.2

01/15053
NOV 03 094019.1s 37.20S 179.76W 33km M=3.5
0.5 0.07 0.04 R
Rsd 0.2s 5ph/3stn Dmin 200km Az.gap 341°
Corr. -0.489 2M/2stn Msd 0.3

01/15070
NOV 03 215116.8s 39.07S 174.94E 230km M=4.6
0.3 0.02 0.02 3
Rsd 0.2s 50ph/40stn Dmin 39km Az.gap 92°
Corr. -0.352 8M/4stn Msd 0.2 9↑ 7↓

01/15075
NOV 03 232128.9s 37.02S 177.47E 218km M=4.0
1.3 0.10 0.08 8
Rsd 0.4s 8ph/6stn Dmin 142km Az.gap 319°
Corr. 0.037 2M/2stn Msd 0.0

01/15077
NOV 04 020640.7s 37.04S 179.51W 33km M=3.8
0.4 0.12 0.07 R
Rsd 0.1s 5ph/3stn Dmin 228km Az.gap 354°
Corr. -0.898 2M/2stn Msd 0.3

01/15078
NOV 04 022659.0s 36.96S 179.84W 33km M=4.1
0.6 0.03 0.04 R
Rsd 0.2s 9ph/6stn Dmin 209km Az.gap 311°
Corr. 0.233 7M/5stn Msd 0.1

01/15079
NOV 04 024253.4s 37.19S 179.74W 33km M=3.9
1.1 0.06 0.08 R
Rsd 0.4s 8ph/6stn Dmin 202km Az.gap 312°
Corr. -0.076 3M/3stn Msd 0.2 1↑

01/15082
NOV 04 034919.4s 38.02S 176.58E 128km M=3.7
0.2 0.02 0.01 2
Rsd 0.1s 10ph/7stn Dmin 54km Az.gap 233°
Corr. -0.807 7M/5stn Msd 0.1 1↑

01/15084
NOV 04 050656.9s 39.56S 174.37E 193km M=4.6
0.4 0.01 0.02 3
Rsd 0.2s 42ph/35stn Dmin 31km Az.gap 76°
Corr. -0.138 12M/6stn Msd 0.2 19↑ 9↓

01/15085
NOV 04 055439.8s 41.27S 172.79E 133km M=3.6
0.5 0.03 0.02 5
Rsd 0.4s 22ph/16stn Dmin 54km Az.gap 99°
Corr. -0.010 6M/6stn Msd 0.1 1↑

01/15087
NOV 04 062911.5s 36.97S 179.99E 33km M=3.6
0.6 0.03 0.05 R
Rsd 0.2s 6ph/4stn Dmin 196km Az.gap 321°
Corr. -0.138 2M/2stn Msd 0.0

01/15091
NOV 04 084656.0s 39.61S 174.38E 211km M=3.5
0.4 0.02 0.03 4
Rsd 0.1s 16ph/14stn Dmin 108km Az.gap 211°
Corr. -0.462 4M/4stn Msd 0.3 1↑

01/15095
NOV 04 102014.2s 35.79S 179.03E 238km M=4.0
0.7 0.20 0.10 21
Rsd 0.2s 5ph/3stn Dmin 263km Az.gap 344°
Corr. -0.427 2M/2stn Msd 0.2

01/15099
NOV 04 134338.9s 36.89S 179.99E 33km M=3.6
0.4 0.04 0.03 R
Rsd 0.1s 5ph/3stn Dmin 201km Az.gap 342°
Corr. -0.687 2M/2stn Msd 0.3

01/15109
NOV 04 202709.3s 37.57S 180.00W 33km M=3.5
0.8 0.10 0.05 R
Rsd 0.3s 5ph/3stn Dmin 164km Az.gap 339°
Corr. -0.205 2M/2stn Msd 0.0

01/15110
NOV 04 213946.9s 45.18S 167.31E 86km M=4.5
0.3 0.01 0.01 2
Rsd 0.2s 13ph/7stn Dmin 35km Az.gap 202°
Corr. -0.203 12M/7stn Msd 0.2 3↑ 3↓

01/15117
NOV 05 004547.2s 38.02S 179.67E 12km M=3.7
0.7 0.15 0.04 R
Rsd 0.3s 10ph/7stn Dmin 124km Az.gap 314°
Corr. -0.004 6M/6stn Msd 0.3

01/15120
NOV 05 025607.1s 37.49S 179.75W 33km M=3.6
1.3 0.12 0.07 R
Rsd 0.4s 6ph/4stn Dmin 187km Az.gap 335°
Corr. 0.111 3M/3stn Msd 0.1

01/15125
NOV 05 054716.3s 38.27S 175.98E 166km M=3.6
0.6 0.04 0.09 7
Rsd 0.2s 9ph/8stn Dmin 99km Az.gap 242°
Corr. -0.610 3M/3stn Msd 0.4

01/15131
NOV 05 071942.5s 38.54S 175.97E 145km M=3.5
0.2 0.01 0.01 1
Rsd 0.0s 11ph/9stn Dmin 63km Az.gap 217°
Corr. -0.645 6M/6stn Msd 0.2 1↓

01/15135
NOV 05 083522.3s 37.31S 179.90W 33km M=3.8
1.2 0.09 0.09 R
Rsd 0.4s 5ph/3stn Dmin 184km Az.gap 331°
Corr. -0.555 2M/2stn Msd 0.3

01/15139
NOV 05 102849.1s 37.48S 179.81W 33km M=3.7
0.8 0.09 0.05 R
Rsd 0.3s 5ph/3stn Dmin 183km Az.gap 340°
Corr. -0.141 2M/2stn Msd 0.2

01/15154
NOV 05 192059.4s 36.10S 176.94E 238km M=3.9
1.5 0.34 0.17 37
Rsd 0.6s 7ph/3stn Dmin 240km Az.gap 335°
Corr. -0.319 2M/2stn Msd 0.2

01/15159
NOV 05 230927.0s 36.84S 179.32W 33km M=4.4
0.6 0.04 0.04 R
Rsd 0.2s 9ph/6stn Dmin 254km Az.gap 311°
Corr. -0.362 10M/5stn Msd 0.2

01/15165
NOV 06 013737.9s 37.89S 179.07E 33km M=3.9
0.5 0.07 0.04 R
Rsd 0.2s 12ph/10stn Dmin 74km Az.gap 286°
Corr. -0.402 15M/13stn Msd 0.3 1↑

01/15166
NOV 06 021514.7s 37.05S 179.77E 33km M=3.7
0.6 0.07 0.05 R
Rsd 0.1s 6ph/3stn Dmin 175km Az.gap 340°
Corr. -0.560 2M/2stn Msd 0.2

01/15175
NOV 06 060759.5s 37.18S 176.70E 235km M=3.7
0.9 0.08 0.08 8
Rsd 0.3s 10ph/8stn Dmin 125km Az.gap 286°
Corr. -0.686 3M/3stn Msd 0.1

01/15188
NOV 06 141515.2s 37.52S 179.70W 33km M=4.1
0.5 0.03 0.03 R
Rsd 0.2s 8ph/5stn Dmin 190km Az.gap 308°
Corr. -0.200 6M/4stn Msd 0.2

01/15191
NOV 06 174312.1s 37.12S 179.91W 33km M=4.3
0.2 0.03 0.02 R
Rsd 0.1s 12ph/9stn Dmin 193km Az.gap 308°
Corr. -0.543 19M/16stn Msd 0.2

01/15208
NOV 07 003731.8s 42.47S 173.73E 13km M=3.8
0.1 0.01 0.01 1
Rsd 0.2s 32ph/22stn Dmin 6km Az.gap 162°
Corr. -0.372 11M/6stn Msd 0.3 1↑ 5↓

01/15221
NOV 07 055222.7s 37.18S 179.87W 33km M=4.0
0.8 0.03 0.06 R
Rsd 0.3s 10ph/6stn Dmin 193km Az.gap 307°
Corr. -0.017 10M/8stn Msd 0.4

01/15222
NOV 07 062728.4s 38.12S 176.23E 153km M=4.1
0.3 0.01 0.01 3
Rsd 0.2s 19ph/15stn Dmin 77km Az.gap 106°
Corr. 0.169 12M/9stn Msd 0.2 4↑ 5↓

01/15228
NOV 07 074039.0s 38.41S 175.97E 183km M=4.4
0.5 0.03 0.02 4
Rsd 0.2s 26ph/19stn Dmin 76km Az.gap 109°
Corr. -0.008 10M/5stn Msd 0.2 9↑ 3↓

01/15231
NOV 07 080957.7s 42.45S 173.71E 14km M=3.6
0.2 0.01 0.01 1
Rsd 0.2s 25ph/17stn Dmin 4km Az.gap 160°
Corr. -0.129 10M/5stn Msd 0.3 1↑ 4↓
Felt Kaikoura (90).

01/15262
NOV 07 204414.6s 37.20S 179.35W 33km M=3.8
0.7 0.09 0.04 R
Rsd 0.2s 5ph/3stn Dmin 233km Az.gap 343°
Corr. -0.460 2M/2stn Msd 0.3

01/15283
NOV 08 094904.4s 38.22S 176.10E 160km M=3.8
0.4 0.03 0.02 4
Rsd 0.2s 12ph/8stn Dmin 89km Az.gap 237°
Corr. -0.633 9M/6stn Msd 0.2

01/15284
NOV 08 100752.5s 37.17S 178.97W 33km M=3.8
0.1 0.01 0.01 R
Rsd 0.0s 4ph/3stn Dmin 265km Az.gap 344°
Corr. -0.588 1M/1stn Msd N.D.

01/15286
NOV 08 110213.2s 37.06S 179.91E 33km M=3.6
0.2 0.03 0.02 R
Rsd 0.1s 7ph/5stn Dmin 184km Az.gap 340°
Corr. -0.448 2M/2stn Msd 0.3

01/15289
NOV 08 124858.5s 39.15S 179.49E 33km M=3.5
0.8 0.03 0.05 R
Rsd 0.4s 15ph/10stn Dmin 158km Az.gap 284°
Corr. -0.280 7M/7stn Msd 0.1

01/15291
NOV 08 131629.1s 37.58S 179.83W 33km M=3.7
0.5 0.04 0.03 R
Rsd 0.2s 9ph/6stn Dmin 177km Az.gap 340°
Corr. -0.108 6M/6stn Msd 0.3 1↑

01/15293
NOV 08 135400.7s 37.50S 179.83W 33km M=3.7
1.0 0.11 0.05 R
Rsd 0.3s 5ph/3stn Dmin 180km Az.gap 340°
Corr. -0.116 2M/2stn Msd 0.0

01/15314
NOV 08 215520.5s 37.19S 179.54W 33km M=3.6
0.8 0.08 0.05 R
Rsd 0.3s 6ph/4stn Dmin 218km Az.gap 339°
Corr. -0.243 2M/2stn Msd 0.3

01/15320
NOV 09 033118.6s 39.33S 174.74E 201km M=3.8
0.2 0.01 0.02 2
Rsd 0.1s 27ph/21stn Dmin 64km Az.gap 193°
Corr. -0.309 9M/9stn Msd 0.2 4↑ 2↓

01/15323
NOV 09 045639.0s 41.51S 173.32E 92km M=5.4
0.2 0.01 0.01 2
Rsd 0.2s 46ph/38stn Dmin 25km Az.gap 61°
Corr. -0.211 12M/6stn Msd 0.2 19↑ 12↓
Felt in the Wellington area and northern South Island.

01/15329
NOV 09 073100.3s 37.47S 179.93E 33km M=3.6
0.9 0.11 0.06 R
Rsd 0.3s 7ph/4stn Dmin 162km Az.gap 338°
Corr. -0.354 2M/2stn Msd 0.0

01/15334
NOV 09 091532.9s 39.24S 174.86E 229km M=3.9
0.5 0.02 0.02 4
Rsd 0.2s 27ph/23stn Dmin 40km Az.gap 148°
Corr. 0.079 12M/11stn Msd 0.2 1↓

01/15340
NOV 09 114824.1s 40.69S 174.67E 78km M=4.8
0.1 0.00 0.01 1
Rsd 0.2s 62ph/49stn Dmin 28km Az.gap 72°
Corr. -0.132 14M/7stn Msd 0.2 15↑ 18↓
Felt Marton (61) to Blenheim (77).

01/15354
NOV 09 134944.6s 37.35S 179.84W 33km M=3.8
0.2 0.02 0.02 R
Rsd 0.1s 10ph/7stn Dmin 186km Az.gap 331°
Corr. -0.385 10M/9stn Msd 0.2 1↓

01/15365
NOV 09 173823.5s 40.05S 175.04E 44km M=3.5
0.1 0.01 0.01 4
Rsd 0.3s 40ph/32stn Dmin 30km Az.gap 93°
Corr. -0.048 17M/13stn Msd 0.3 2↑ 1↓

01/15379
NOV 09 233038.2s 36.93S 179.10W 33km M=4.1
0.5 0.05 0.04 R
Rsd 0.1s 10ph/6stn Dmin 266km Az.gap 345°
Corr. -0.547 4M/4stn Msd 0.2

01/15391
NOV 10 053607.7s 45.12S 166.86E 5km M=3.6
0.7 0.02 0.04 R
Rsd 0.4s 12ph/8stn Dmin 45km Az.gap 257°
Corr. -0.311 12M/7stn Msd 0.2 1↑ 2↓

01/15402
NOV 10 091429.0s 45.10S 167.49E 116km M=4.1
0.5 0.03 0.02 3
Rsd 0.3s 14ph/9stn Dmin 49km Az.gap 185°
Corr. -0.257 9M/5stn Msd 0.1 5↑ 1↓

01/15424
NOV 10 221406.0s 37.20S 179.93W 33km M=3.6
0.8 0.09 0.04 R
Rsd 0.2s 5ph/3stn Dmin 187km Az.gap 340°
Corr. -0.517 2M/2stn Msd 0.3

01/15450
NOV 11 135621.8s 37.02S 179.82W 33km M=3.8
0.5 0.03 0.04 R
Rsd 0.2s 8ph/6stn Dmin 207km Az.gap 317°
Corr. -0.117 6M/6stn Msd 0.2

01/15457
NOV 11 164811.4s 38.19S 176.55E 130km M=3.5
0.2 0.01 0.01 2
Rsd 0.1s 11ph/8stn Dmin 50km Az.gap 229°
Corr. -0.465 5M/5stn Msd 0.3 1↑ 2↓

01/15461
NOV 11 183237.6s 35.06S 178.19E 33km M=3.8
2.1 0.13 0.24 R
Rsd 0.5s 5ph/3stn Dmin 334km Az.gap 344°
Corr. -0.521 2M/2stn Msd 0.3

01/15467
NOV 11 220409.7s 38.49S 175.88E 179km M=4.0
0.3 0.01 0.02 3
Rsd 0.2s 26ph/18stn Dmin 64km Az.gap 103°
Corr. 0.047 15M/11stn Msd 0.2 5↑ 1↓

01/15469
NOV 12 041547.0s 39.75S 174.09E 147km M=4.0
0.4 0.01 0.01 3
Rsd 0.3s 40ph/32stn Dmin 47km Az.gap 117°
Corr. -0.376 16M/13stn Msd 0.3 8↑ 9↓

01/15486
NOV 12 121339.1s 37.12S 179.90W 33km M=3.8
0.2 0.02 0.02 R
Rsd 0.1s 12ph/8stn Dmin 195km Az.gap 312°
Corr. -0.419 6M/6stn Msd 0.2

01/15489
NOV 12 123516.5s 37.96S 176.32E 204km M=4.2
0.5 0.03 0.02 3
Rsd 0.2s 22ph/16stn Dmin 76km Az.gap 166°
Corr. 0.129 14M/11stn Msd 0.2 3↑ 1↓

01/15493
NOV 12 133423.4s 36.96S 179.80W 33km M=3.7
0.6 0.03 0.05 R
Rsd 0.2s 8ph/6stn Dmin 211km Az.gap 324°
Corr. -0.412 5M/5stn Msd 0.3

01/15496
NOV 12 140240.8s 37.45S 179.85W 33km M=3.7
0.8 0.04 0.06 R
Rsd 0.3s 10ph/6stn Dmin 180km Az.gap 314°
Corr. 0.052 5M/5stn Msd 0.2

01/15513
NOV 13 022441.7s 39.11S 174.94E 189km M=4.3
0.3 0.02 0.01 3
Rsd 0.2s 37ph/30stn Dmin 40km Az.gap 89°
Corr. 0.087 8M/4stn Msd 0.1 4↑ 5↓

01/15514
NOV 13 030016.6s 37.11S 179.91E 33km M=3.5
0.5 0.05 0.04 R
Rsd 0.2s 5ph/3stn Dmin 181km Az.gap 340°
Corr. -0.401 2M/2stn Msd 0.1

01/15524
NOV 13 095131.2s 45.10S 167.40E 119km M=3.5
0.4 0.02 0.02 3
Rsd 0.2s 13ph/8stn Dmin 45km Az.gap 197°
Corr. -0.199 11M/7stn Msd 0.2 5↑ 1↓

01/15525
NOV 13 114414.0s 37.31S 180.00W 33km M=4.1
0.9 0.05 0.06 R
Rsd 0.3s 7ph/5stn Dmin 176km Az.gap 315°
Corr. -0.151 2M/2stn Msd 0.3

01/15529
NOV 13 140308.1s 37.30S 179.87W 33km M=3.8
0.6 0.05 0.04 R
Rsd 0.2s 6ph/3stn Dmin 186km Az.gap 341°
Corr. -0.285 2M/2stn Msd 0.2

01/15530
NOV 13 155149.4s 37.26S 179.92W 33km M=3.6
0.9 0.10 0.06 R
Rsd 0.3s 5ph/3stn Dmin 184km Az.gap 341°
Corr. -0.409 2M/2stn Msd 0.3

01/15532
NOV 13 201311.6s 37.40S 179.82W 33km M=3.7
0.6 0.06 0.04 R
Rsd 0.2s 7ph/4stn Dmin 185km Az.gap 336°
Corr. -0.250 2M/2stn Msd 0.1

01/15535
NOV 13 215144.6s 37.49S 179.90W 33km M=4.0
1.2 0.10 0.08 R
Rsd 0.5s 8ph/5stn Dmin 175km Az.gap 336°
Corr. -0.206 5M/4stn Msd 0.4 1↓

01/15546
NOV 14 053213.3s 41.74S 173.79E 14km M=4.1
0.1 0.01 0.01 2
Rsd 0.3s 34ph/23stn Dmin 8km Az.gap 103°
Corr. -0.398 24M/12stn Msd 0.1 11↑ 4↓
Felt Blenheim (77) and Seddon (84).

01/15551
NOV 14 111929.1s 37.57S 179.93W 33km M=3.8
0.4 0.04 0.03 R
Rsd 0.2s 10ph/7stn Dmin 169km Az.gap 332°
Corr. -0.226 5M/5stn Msd 0.2

01/15553
NOV 14 114322.0s 36.81S 179.14W 33km M=4.0
0.2 0.01 0.01 R
Rsd 0.1s 8ph/5stn Dmin 269km Az.gap 323°
Corr. -0.339 3M/3stn Msd 0.2

01/15555
NOV 14 121858.7s 37.30S 179.89W 33km M=3.7
0.7 0.04 0.05 R
Rsd 0.2s 7ph/4stn Dmin 184km Az.gap 316°
Corr. -0.189 2M/2stn Msd 0.2

01/15560
NOV 14 161148.4s 36.53S 179.04E 33km M=4.2
0.6 0.03 0.05 R
Rsd 0.2s 10ph/9stn Dmin 185km Az.gap 300°
Corr. 0.466 5M/5stn Msd 0.2

01/15563
NOV 14 183814.3s 37.20S 179.87W 33km M=3.7
0.1 0.01 0.01 R
Rsd 0.0s 5ph/3stn Dmin 192km Az.gap 341°
Corr. -0.493 2M/2stn Msd 0.2

01/15566
NOV 14 210421.9s 45.33S 166.84E 41km M=3.7
0.3 0.01 0.02 2
Rsd 0.2s 13ph/7stn Dmin 29km Az.gap 281°
Corr. -0.003 11M/6stn Msd 0.2 1↑ 2↓

01/15572
NOV 15 025055.8s 38.64S 176.15E 174km M=3.8
0.9 0.02 0.04 6
Rsd 0.1s 12ph/11stn Dmin 41km Az.gap 191°
Corr. -0.063 4M/4stn Msd 0.1

01/15575
NOV 15 065748.0s 37.17S 179.67W 33km M=3.6
0.0 0.01 0.00 R
Rsd 0.0s 5ph/3stn Dmin 209km Az.gap 342°
Corr. -0.512 2M/2stn Msd 0.1

01/15576
NOV 15 074100.8s 36.97S 179.31W 33km M=3.5
0.3 0.10 0.06 R
Rsd 0.1s 5ph/3stn Dmin 247km Az.gap 355°
Corr. -0.928 2M/2stn Msd 0.2

01/15579
NOV 15 081327.2s 36.95S 177.01E 221km M=4.5
0.3 0.04 0.02 3
Rsd 0.1s 14ph/10stn Dmin 117km Az.gap 218°
Corr. 0.845 14M/7stn Msd 0.2 2↑ 2↓

01/15596
NOV 15 155953.6s 40.35S 175.46E 52km M=3.8
0.1 0.00 0.01 3
Rsd 0.2s 45ph/37stn Dmin 36km Az.gap 53°
Corr. -0.142 8M/4stn Msd 0.2 5↑ 1↓
Felt Palmerston North area.

01/15622
NOV 16 130040.3s 37.19S 179.85W 33km M=4.0
0.6 0.03 0.05 R
Rsd 0.3s 11ph/8stn Dmin 194km Az.gap 308°
Corr. 0.033 11M/10stn Msd 0.2 1↑

01/15623
NOV 16 134025.0s 37.07S 179.97W 33km M=3.9
0.5 0.02 0.04 R
Rsd 0.2s 11ph/9stn Dmin 192km Az.gap 309°
Corr. 0.027 8M/8stn Msd 0.2

01/15625
NOV 16 141125.9s 41.58S 173.23E 74km M=4.8
0.2 0.01 0.01 2
Rsd 0.2s 37ph/28stn Dmin 32km Az.gap 65°
Corr. 0.140 12M/6stn Msd 0.2 7↑ 8↓

01/15632
NOV 16 191708.2s 36.76S 179.76W 33km M=4.6
0.4 0.02 0.03 R
Rsd 0.1s 20ph/17stn Dmin 228km Az.gap 308°
Corr. -0.355 8M/4stn Msd 0.2

01/15634
NOV 16 192347.6s 36.13S 179.77W 123km M=4.2
0.3 0.06 0.02 18
Rsd 0.1s 16ph/14stn Dmin 278km Az.gap 317°
Corr. 0.325 3M/3stn Msd 0.3

01/15641
NOV 16 220807.2s 39.67S 173.99E 176km M=3.7
0.5 0.02 0.03 5
Rsd 0.2s 23ph/18stn Dmin 126km Az.gap 197°
Corr. -0.695 5M/5stn Msd 0.4

01/15645
NOV 17 005133.7s 38.71S 179.66W 33km M=3.8
1.4 0.16 0.10 R
Rsd 0.5s 5ph/3stn Dmin 196km Az.gap 341°
Corr. 0.407 2M/2stn Msd 0.4

01/15649
NOV 17 022507.0s 40.39S 173.85E 123km M=3.5
0.2 0.01 0.01 3
Rsd 0.2s 38ph/27stn Dmin 46km Az.gap 156°
Corr. -0.375 12M/11stn Msd 0.2 3↑ 1↓

01/15658
NOV 17 061102.9s 36.58S 179.63W 33km M=3.7
0.2 0.01 0.02 R
Rsd 0.1s 6ph/4stn Dmin 250km Az.gap 327°
Corr. -0.477 4M/4stn Msd 0.4

01/15659
NOV 17 065831.2s 37.31S 176.59E 208km M=3.7
0.5 0.05 0.04 5
Rsd 0.2s 10ph/7stn Dmin 115km Az.gap 270°
Corr. -0.036 8M/8stn Msd 0.1

01/15666
NOV 17 093634.1s 38.80S 176.05E 153km M=3.5
0.6 0.03 0.05 4
Rsd 0.2s 15ph/13stn Dmin 50km Az.gap 174°
Corr. -0.513 5M/5stn Msd 0.1 1↑

01/15675
NOV 17 133824.5s 41.28S 172.61E 189km M=3.9
0.4 0.02 0.02 3
Rsd 0.3s 31ph/22stn Dmin 51km Az.gap 121°
Corr. -0.049 12M/11stn Msd 0.2 8↑ 2↓

01/15680
NOV 17 163945.6s 45.15S 167.43E 91km M=3.7
0.3 0.01 0.02 3
Rsd 0.2s 13ph/7stn Dmin 42km Az.gap 186°
Corr. -0.190 11M/6stn Msd 0.2 5↑ 2↓

01/15681
NOV 17 175747.8s 39.19S 174.78E 220km M=3.6
0.7 0.02 0.08 6
Rsd 0.1s 13ph/13stn Dmin 56km Az.gap 223°
Corr. -0.687 4M/4stn Msd 0.1 2↑ 2↓

01/15685
NOV 17 204445.5s 38.58S 176.91E 54km M=3.6
0.2 0.01 0.01 4
Rsd 0.2s 21ph/17stn Dmin 40km Az.gap 79°
Corr. 0.055 5M/2stn Msd 0.2 7↑ 1↓

01/15692
NOV 18 050455.0s 43.10S 170.82E 5km M=4.3
0.1 0.01 0.00 R
Rsd 0.1s 19ph/11stn Dmin 7km Az.gap 85°
Corr. -0.213 19M/11stn Msd 0.2 1↑ 1↓

01/15711
NOV 18 184233.6s 36.99S 179.72W 33km M=4.0
0.3 0.04 0.02 R
Rsd 0.1s 5ph/3stn Dmin 216km Az.gap 343°
Corr. -0.374 2M/2stn Msd 0.4

01/15717
NOV 19 040936.2s 37.03S 179.98W 33km M=3.6
0.0 0.00 0.00 R
Rsd 0.0s 4ph/2stn Dmin 194km Az.gap 352°
Corr. -0.822 2M/2stn Msd 0.3

01/15719
NOV 19 075924.3s 45.46S 166.73E 50km M=3.7
0.2 0.01 0.02 2
Rsd 0.1s 13ph/7stn Dmin 33km Az.gap 287°
Corr. 0.186 13M/6stn Msd 0.3 1↑ 4↓

01/15723
NOV 19 094001.3s 37.56S 179.30W 33km M=3.9
0.4 0.04 0.03 R
Rsd 0.1s 7ph/4stn Dmin 222km Az.gap 336°
Corr. -0.483 3M/3stn Msd 0.2 1↓

01/15725
NOV 19 100542.4s 37.47S 179.40W 33km M=3.8
0.9 0.13 0.04 R
Rsd 0.2s 5ph/3stn Dmin 217km Az.gap 342°
Corr. -0.333 2M/2stn Msd 0.2

01/15730
NOV 19 141612.2s 37.85S 177.35E 100km M=4.1
0.2 0.01 0.01 2
Rsd 0.2s 24ph/20stn Dmin 38km Az.gap 130°
Corr. 0.325 4M/2stn Msd 0.2 2↑ 1↓

01/15736
NOV 19 213153.0s 35.99S 178.25E 233km M=3.8
0.8 0.17 0.09 16
Rsd 0.3s 6ph/4stn Dmin 231km Az.gap 327°
Corr. -0.372 2M/2stn Msd 0.1

01/15750
NOV 20 072618.5s 36.94S 179.88W 33km M=4.2
0.3 0.02 0.02 R
Rsd 0.1s 14ph/10stn Dmin 207km Az.gap 306°
Corr. -0.136 14M/12stn Msd 0.3

01/15764
NOV 20 140218.0s 37.04S 179.97E 33km M=3.7
0.7 0.04 0.05 R
Rsd 0.3s 6ph/4stn Dmin 190km Az.gap 308°
Corr. -0.324 3M/3stn Msd 0.1

01/15773
NOV 20 193420.9s 36.85S 179.63W 33km M=3.9
1.6 0.13 0.13 R
Rsd 0.6s 8ph/6stn Dmin 231km Az.gap 318°
Corr. -0.404 4M/4stn Msd 0.4

01/15779
NOV 21 032644.4s 37.20S 179.99E 33km M=4.0
0.5 0.05 0.04 R
Rsd 0.2s 8ph/5stn Dmin 181km Az.gap 308°
Corr. -0.354 3M/3stn Msd 0.1 1↑ 1↓

01/15789
NOV 21 112639.8s 37.61S 176.46E 190km M=3.8
0.3 0.03 0.01 2
Rsd 0.1s 11ph/8stn Dmin 92km Az.gap 257°
Corr. -0.392 9M/9stn Msd 0.1 1↑ 1↓

01/15798
NOV 21 172319.8s 37.15S 179.96W 33km M=4.0
0.8 0.05 0.06 R
Rsd 0.3s 7ph/5stn Dmin 187km Az.gap 315°
Corr. 0.090 2M/2stn Msd 0.3 1↓

01/15803
NOV 21 203719.7s 42.88S 171.33E 5km M=3.6
0.1 0.00 0.00 R
Rsd 0.1s 20ph/13stn Dmin 16km Az.gap 76°
Corr. -0.323 10M/5stn Msd 0.4 2↑ 3↓

01/15814
NOV 22 094649.3s 37.58S 177.12E 136km M=3.7
0.7 0.06 0.06 6
Rsd 0.2s 5ph/3stn Dmin 76km Az.gap 324°
Corr. 0.461 1M/1stn Msd N.D. 1↑

01/15817
NOV 22 113613.3s 37.28S 179.96E 12km M=3.5
0.6 0.03 0.04 R
Rsd 0.2s 7ph/4stn Dmin 174km Az.gap 314°
Corr. -0.246 3M/3stn Msd 0.1

01/15818
NOV 22 114900.9s 38.38S 176.07E 154km M=3.9
0.3 0.01 0.01 3
Rsd 0.1s 19ph/17stn Dmin 83km Az.gap 91°
Corr. -0.135 13M/9stn Msd 0.2 1↑

01/15822
NOV 22 151250.3s 39.94S 173.62E 216km M=3.8
0.5 0.02 0.03 4
Rsd 0.3s 34ph/25stn Dmin 99km Az.gap 194°
Corr. -0.413 10M/8stn Msd 0.2 3↑ 1↓

01/15832
NOV 22 202703.7s 37.33S 179.87W 33km M=3.8
1.2 0.09 0.09 R
Rsd 0.5s 7ph/5stn Dmin 184km Az.gap 313°
Corr. -0.151 4M/3stn Msd 0.3

01/15833
NOV 22 214055.6s 37.54S 179.89W 33km M=4.0
0.7 0.07 0.04 R
Rsd 0.2s 6ph/4stn Dmin 174km Az.gap 340°
Corr. 0.077 2M/2stn Msd 0.1

01/15834
NOV 22 214126.8s 37.62S 179.79W 33km M=4.1
0.9 0.08 0.05 R
Rsd 0.3s 7ph/5stn Dmin 179km Az.gap 331°
Corr. 0.260 5M/3stn Msd 0.2

01/15835
NOV 22 221241.4s 38.50S 175.62E 238km M=4.3
0.4 0.02 0.02 3
Rsd 0.2s 25ph/19stn Dmin 56km Az.gap 107°
Corr. 0.194 10M/5stn Msd 0.2

01/15837
NOV 22 230151.8s 37.62S 179.87W 33km M=3.6
0.5 0.06 0.03 R
Rsd 0.2s 5ph/3stn Dmin 172km Az.gap 339°
Corr. -0.135 2M/2stn Msd 0.1

01/15839
NOV 23 002223.7s 36.38S 178.38E 33km M=4.1
0.8 0.05 0.05 R
Rsd 0.4s 11ph/8stn Dmin 166km Az.gap 283°
Corr. 0.530 7M/5stn Msd 0.3

01/15866
NOV 23 214655.0s 37.80S 176.46E 186km M=3.7
1.6 0.11 0.07 10
Rsd 0.6s 9ph/7stn Dmin 76km Az.gap 209°
Corr. -0.155 2M/2stn Msd 0.1 1↑

01/15868
NOV 23 235159.9s 38.43S 176.47E 191km M=3.5
0.8 0.05 0.07 6
Rsd 0.3s 10ph/8stn Dmin 59km Az.gap 199°
Corr. -0.587 2M/2stn Msd 0.0 1↑

01/15878
NOV 24 060436.9s 36.84S 176.93E 245km M=4.0
0.6 0.08 0.05 6
Rsd 0.2s 11ph/9stn Dmin 158km Az.gap 290°
Corr. -0.317 9M/9stn Msd 0.2 1↓

01/15911
NOV 24 200339.9s 37.45S 179.79W 33km M=3.8
0.7 0.07 0.04 R
Rsd 0.2s 6ph/4stn Dmin 185km Az.gap 336°
Corr. -0.180 4M/3stn Msd 0.2

01/15946
NOV 25 204110.2s 37.42S 179.84W 33km M=3.8
0.9 0.08 0.07 R
Rsd 0.4s 10ph/6stn Dmin 183km Az.gap 336°
Corr. -0.417 6M/5stn Msd 0.3

01/15959
NOV 26 033950.4s 38.17S 176.34E 143km M=4.0
0.3 0.02 0.01 2
Rsd 0.2s 18ph/14stn Dmin 68km Az.gap 227°
Corr. -0.561 11M/10stn Msd 0.2 5↑ 1↓

01/15970
NOV 26 084221.7s 38.19S 175.97E 164km M=4.0
0.4 0.03 0.02 3
Rsd 0.2s 18ph/13stn Dmin 98km Az.gap 214°
Corr. -0.644 13M/11stn Msd 0.2 3↑ 4↓

01/15995
NOV 27 034602.1s 36.92S 179.93W 33km M=4.2
0.5 0.03 0.03 R
Rsd 0.2s 12ph/8stn Dmin 205km Az.gap 306°
Corr. -0.101 15M/12stn Msd 0.2

01/16002
NOV 27 062507.9s 36.98S 179.85W 33km M=3.8
1.0 0.05 0.07 R
Rsd 0.4s 10ph/7stn Dmin 207km Az.gap 311°
Corr. 0.008 5M/5stn Msd 0.2

01/16003
NOV 27 063652.2s 36.98S 179.89W 33km M=3.8
0.6 0.03 0.04 R
Rsd 0.2s 11ph/7stn Dmin 204km Az.gap 307°
Corr. -0.162 9M/9stn Msd 0.2

01/16004
NOV 27 064646.1s 40.62S 174.25E 78km M=3.7
0.2 0.01 0.01 3
Rsd 0.2s 46ph/34stn Dmin 34km Az.gap 89°
Corr. -0.084 16M/12stn Msd 0.3 4↑ 1↓

01/16015
NOV 27 133520.8s 36.70S 178.31E 12km M=3.8
0.6 0.03 0.04 R
Rsd 0.3s 21ph/17stn Dmin 152km Az.gap 274°
Corr. 0.778 14M/12stn Msd 0.2 1↓

01/16025
NOV 27 171228.5s 39.30S 177.74E 53km M=3.5
0.3 0.01 0.02 2
Rsd 0.1s 7ph/5stn Dmin 31km Az.gap 280°
Corr. -0.557 1M/1stn Msd N.D. 1↑

01/16084
NOV 29 003936.6s 40.45S 177.01E 12km M=3.5
0.1 0.01 0.01 R
Rsd 0.1s 29ph/24stn Dmin 48km Az.gap 207°
Corr. -0.664 11M/11stn Msd 0.4 4↑ 1↓

01/16085
NOV 29 003939.8s 40.42S 176.92E 16km M=4.5
0.2 0.01 0.01 2
Rsd 0.1s 33ph/25stn Dmin 43km Az.gap 197°
Corr. -0.624 24M/13stn Msd 0.3
Felt in southern Hawke's Bay.

01/16088
NOV 29 012857.9s 40.44S 177.01E 12km M=3.9
0.2 0.01 0.02 R
Rsd 0.1s 27ph/23stn Dmin 48km Az.gap 203°
Corr. -0.536 9M/5stn Msd 0.1 4↑ 1↓

01/16096
NOV 29 040136.1s 37.19S 179.71W 33km M=3.7
0.6 0.06 0.05 R
Rsd 0.2s 9ph/6stn Dmin 205km Az.gap 339°
Corr. -0.354 2M/2stn Msd 0.3

01/16100
NOV 29 060250.9s 38.66S 175.27E 243km M=4.1
0.6 0.06 0.03 5
Rsd 0.3s 21ph/17stn Dmin 44km Az.gap 143°
Corr. -0.421 12M/11stn Msd 0.3 6↑ 7↓

01/16116
NOV 29 102814.4s 41.37S 172.84E 106km M=3.5
0.4 0.02 0.02 3
Rsd 0.3s 35ph/26stn Dmin 44km Az.gap 92°
Corr. -0.364 13M/11stn Msd 0.1 7↑ 1↓

01/16117
NOV 29 103906.6s 38.51S 175.48E 260km M=3.8
0.8 0.07 0.07 6
Rsd 0.3s 21ph/16stn Dmin 75km Az.gap 216°
Corr. -0.713 10M/10stn Msd 0.2

01/16119
NOV 29 110102.2s 38.55S 175.93E 147km M=4.1
0.3 0.01 0.01 2
Rsd 0.2s 36ph/28stn Dmin 24km Az.gap 95°
Corr. -0.085 8M/4stn Msd 0.3 10↑ 2↓

01/16135
NOV 29 183615.0s 35.46S 178.91E 259km M=4.1
0.9 0.08 0.10 10
Rsd 0.2s 9ph/6stn Dmin 296km Az.gap 337°
Corr. -0.641 2M/2stn Msd 0.2

01/16137
NOV 29 191317.1s 38.86S 175.50E 121km M=3.8
0.2 0.01 0.01 2
Rsd 0.2s 25ph/18stn Dmin 17km Az.gap 122°
Corr. -0.013 10M/10stn Msd 0.2 5↑ 2↓

01/16138
NOV 29 202127.8s 41.11S 174.55E 41km M=3.6
0.1 0.01 0.01 1
Rsd 0.2s 34ph/29stn Dmin 18km Az.gap 61°
Corr. -0.237 12M/8stn Msd 0.2 6↑ 4↓

01/16142
NOV 29 210458.6s 37.41S 179.17W 33km M=4.1
1.1 0.12 0.07 R
Rsd 0.5s 10ph/6stn Dmin 238km Az.gap 333°
Corr. -0.389 9M/9stn Msd 0.1

01/16149
NOV 30 004629.7s 46.73S 165.37E 33km M=3.7
0.7 0.06 0.04 R
Rsd 0.3s 7ph/4stn Dmin 197km Az.gap 339°
Corr. -0.307 4M/3stn Msd 0.4

01/16154
NOV 30 035738.8s 36.55S 177.16E 273km M=3.7
0.9 0.14 0.08 8
Rsd 0.3s 12ph/11stn Dmin 190km Az.gap 293°
Corr. 0.087 8M/8stn Msd 0.2

01/16160
NOV 30 065122.2s 37.21S 179.95W 33km M=3.6
0.6 0.06 0.04 R
Rsd 0.2s 9ph/6stn Dmin 185km Az.gap 335°
Corr. -0.382 8M/8stn Msd 0.2 1↑

01/16165
NOV 30 083609.3s 46.15S 165.86E 12km M=3.6
0.9 0.07 0.06 R
Rsd 0.4s 10ph/6stn Dmin 126km Az.gap 324°
Corr. -0.192 10M/6stn Msd 0.2 1↑

01/16168
NOV 30 091945.3s 35.82S 178.04E 12km M=4.3
0.7 0.04 0.04 R
Rsd 0.3s 10ph/7stn Dmin 233km Az.gap 293°
Corr. 0.501 11M/9stn Msd 0.3

01/16174
NOV 30 113654.1s 45.15S 167.03E 12km M=4.6
0.4 0.01 0.02 R
Rsd 0.2s 12ph/6stn Dmin 37km Az.gap 240°
Corr. -0.688 17M/9stn Msd 0.2 1↓
Felt Manapouri (138).

01/16175
NOV 30 113952.6s 45.14S 167.02E 12km M=3.9
0.3 0.01 0.01 R
Rsd 0.2s 12ph/6stn Dmin 38km Az.gap 242°
Corr. -0.579 15M/10stn Msd 0.3 1↓

01/16193
NOV 30 194753.2s 38.24S 175.23E 241km M=3.7
0.4 0.03 0.04 5
Rsd 0.2s 12ph/11stn Dmin 165km Az.gap 233°
Corr. -0.792 7M/7stn Msd 0.2

01/16199
NOV 30 223316.1s 40.47S 177.04E 5km M=3.6
0.2 0.01 0.01 R
Rsd 0.2s 26ph/21stn Dmin 51km Az.gap 205°
Corr. -0.500 23M/19stn Msd 0.2 4↑ 1↓

01/16202
NOV 30 233526.1s 40.89S 178.17E 12km M=3.6
0.8 0.04 0.05 R
Rsd 0.6s 18ph/13stn Dmin 146km Az.gap 257°
Corr. -0.504 10M/10stn Msd 0.2

01/16205
DEC 01 010722.5s 39.57S 174.84E 26km M=3.5
0.1 0.01 0.01 1
Rsd 0.2s 36ph/28stn Dmin 26km Az.gap 89°
Corr. -0.163 33M/30stn Msd 0.2 7↑ 4↓

01/16218
DEC 01 084653.2s 43.32S 174.53E 33km M=4.0
0.4 0.02 0.02 R
Rsd 0.2s 19ph/14stn Dmin 129km Az.gap 218°
Corr. -0.577 21M/11stn Msd 0.2 1↑

01/16236
DEC 01 174452.2s 37.63S 179.90W 33km M=3.8
0.8 0.08 0.04 R
Rsd 0.3s 8ph/5stn Dmin 170km Az.gap 334°
Corr. 0.060 3M/3stn Msd 0.4

01/16242
DEC 01 210938.8s 37.81S 176.24E 179km M=3.7
0.3 0.04 0.02 2
Rsd 0.1s 12ph/10stn Dmin 91km Az.gap 252°
Corr. -0.769 12M/12stn Msd 0.2

01/16248
DEC 02 020545.9s 38.37S 175.76E 151km M=3.5
0.9 0.05 0.05 8
Rsd 0.3s 10ph/7stn Dmin 75km Az.gap 151°
Corr. -0.443 4M/4stn Msd 0.1 1↓

01/16281
DEC 02 233028.9s 38.63S 175.86E 127km M=3.7
0.2 0.02 0.01 2
Rsd 0.1s 17ph/12stn Dmin 50km Az.gap 202°
Corr. -0.706 12M/12stn Msd 0.2 1↑

01/16284
DEC 03 010651.5s 37.57S 179.80W 33km M=3.9
1.6 0.14 0.10 R
Rsd 0.5s 6ph/4stn Dmin 180km Az.gap 335°
Corr. 0.199 2M/2stn Msd 0.1

01/16294
DEC 03 072748.1s 37.48S 176.79E 189km M=3.9
0.2 0.02 0.01 2
Rsd 0.1s 11ph/8stn Dmin 91km Az.gap 262°
Corr. -0.280 8M/8stn Msd 0.2 1↑ 1↓

01/16302
DEC 03 114935.1s 36.84S 179.21W 33km M=3.9
0.6 0.19 0.12 R
Rsd 0.2s 4ph/2stn Dmin 263km Az.gap 355°
Corr. -0.936 3M/3stn Msd 0.8

01/16311
DEC 03 172543.9s 42.47S 173.76E 12km M=3.9
0.2 0.02 0.01 R
Rsd 0.3s 29ph/23stn Dmin 8km Az.gap 163°
Corr. -0.415 18M/9stn Msd 0.4 1↓
Felt Kaikoura (90).

01/16314
DEC 03 191218.2s 40.22S 176.01E 61km M=3.6
0.2 0.01 0.01 3
Rsd 0.2s 31ph/27stn Dmin 62km Az.gap 125°
Corr. -0.199 16M/13stn Msd 0.3 1↑
Felt Dannevirke (63).

01/16318
DEC 03 234258.6s 41.05S 173.46E 93km M=3.9
0.3 0.02 0.01 4
Rsd 0.3s 30ph/23stn Dmin 48km Az.gap 85°
Corr. -0.380 8M/4stn Msd 0.2 5↑ 2↓

01/16319
DEC 04 000537.3s 38.20S 176.41E 138km M=4.0
0.2 0.01 0.01 2
Rsd 0.1s 19ph/15stn Dmin 61km Az.gap 127°
Corr. -0.226 15M/13stn Msd 0.3 6↑ 1↓

01/16324
DEC 04 043339.1s 40.46S 177.01E 12km M=3.6
0.2 0.01 0.01 R
Rsd 0.2s 25ph/19stn Dmin 49km Az.gap 204°
Corr. -0.521 20M/17stn Msd 0.2 1↑

01/16326
DEC 04 061446.6s 38.71S 177.64E 61km M=3.9
0.3 0.01 0.02 3
Rsd 0.2s 17ph/13stn Dmin 35km Az.gap 139°
Corr. -0.294 17M/12stn Msd 0.2 1↑ 1↓

01/16330
DEC 04 103625.2s 40.72S 176.25E 20km M=4.3
0.2 0.01 0.01 2
Rsd 0.2s 36ph/32stn Dmin 57km Az.gap 187°
Corr. -0.574 20M/11stn Msd 0.1 7↑ 2↓

01/16331
DEC 04 112131.7s 38.74S 175.89E 130km M=3.7
0.3 0.01 0.01 3
Rsd 0.2s 24ph/19stn Dmin 42km Az.gap 116°
Corr. -0.270 15M/13stn Msd 0.2 3↑ 1↓

01/16333
DEC 04 121157.9s 38.42S 175.58E 256km M=3.8
0.6 0.05 0.04 5
Rsd 0.3s 13ph/9stn Dmin 65km Az.gap 219°
Corr. -0.532 13M/13stn Msd 0.2 1↑

01/16334
DEC 04 123654.5s 36.68S 179.12W 33km M=4.3
0.9 0.05 0.06 R
Rsd 0.2s 7ph/5stn Dmin 279km Az.gap 319°
Corr. -0.149 6M/5stn Msd 0.5

01/16371
DEC 05 123916.8s 37.18S 179.72W 33km M=3.6
0.9 0.08 0.06 R
Rsd 0.3s 9ph/6stn Dmin 204km Az.gap 339°
Corr. -0.384 5M/5stn Msd 0.2

01/16374
DEC 05 133442.5s 37.31S 179.91W 33km M=3.8
0.4 0.04 0.02 R
Rsd 0.1s 5ph/3stn Dmin 183km Az.gap 340°
Corr. -0.308 2M/2stn Msd 0.3

01/16382
DEC 05 183737.0s 37.17S 179.98W 101km M=3.7
0.8 0.05 0.07 12
Rsd 0.3s 10ph/7stn Dmin 185km Az.gap 314°
Corr. 0.184 3M/3stn Msd 0.2

01/16401
DEC 06 150853.2s 41.24S 174.40E 60km M=3.6
0.1 0.01 0.01 1
Rsd 0.2s 35ph/22stn Dmin 11km Az.gap 80°
Corr. -0.457 16M/11stn Msd 0.2 8↑ 5↓

01/16408
DEC 06 200358.6s 39.28S 176.63E 12km M=2.9
0.2 0.02 0.01 R
Rsd 0.4s 12ph/8stn Dmin 34km Az.gap 93°
Corr. 0.033 6M/6stn Msd 0.1
Felt Patoka (52).

01/16412
DEC 07 030943.6s 36.98S 177.40E 184km M=3.8
1.0 0.06 0.06 8
Rsd 0.5s 10ph/7stn Dmin 143km Az.gap 229°
Corr. 0.431 4M/3stn Msd 0.2 1↑

01/16413
DEC 07 055525.8s 37.66S 179.79W 33km M=3.7
1.4 0.14 0.07 R
Rsd 0.4s 7ph/5stn Dmin 178km Az.gap 334°
Corr. 0.097 2M/2stn Msd 0.2

01/16418
DEC 07 133201.5s 40.48S 177.03E 5km M=3.9
0.2 0.01 0.01 R
Rsd 0.2s 24ph/22stn Dmin 52km Az.gap 210°
Corr. -0.575 11M/6stn Msd 0.2 4↑ 1↓

01/16425
DEC 07 173354.3s 38.80S 177.58E 50km M=4.9
0.2 0.01 0.01 3
Rsd 0.2s 31ph/26stn Dmin 26km Az.gap 92°
Corr. -0.280 12M/6stn Msd 0.2 1↓
Felt Opotiki (35).

01/16429
DEC 07 192735.0s 44.11S 168.61E 5km M=6.2
0.4 0.03 0.01 R
Rsd 0.2s 17ph/13stn Dmin 83km Az.gap 173°
Corr. -0.687 35M/19stn Msd 0.3 9↑ 3↓
Felt widely in the lower half of the South Island.

01/16430
DEC 07 193047.1s 44.23S 168.78E 5km M=4.4
0.5 0.04 0.02 R
Rsd 0.3s 11ph/8stn Dmin 84km Az.gap 177°
Corr. -0.277 9M/5stn Msd 0.2

01/16431
DEC 07 193206.9s 44.18S 168.67E 5km M=4.2
0.6 0.04 0.02 R
Rsd 0.4s 12ph/8stn Dmin 81km Az.gap 187°
Corr. -0.518 9M/5stn Msd 0.2

01/16432
DEC 07 193312.8s 44.19S 168.66E 5km M=4.0
0.6 0.04 0.02 R
Rsd 0.4s 11ph/7stn Dmin 80km Az.gap 187°
Corr. -0.561 8M/5stn Msd 0.2

01/16436
DEC 07 193704.1s 44.23S 168.65E 5km M=3.8
0.6 0.04 0.02 R
Rsd 0.5s 13ph/7stn Dmin 76km Az.gap 185°
Corr. -0.422 16M/9stn Msd 0.4

01/16438
DEC 07 193858.0s 44.18S 168.61E 5km M=3.6
0.5 0.03 0.02 R
Rsd 0.4s 13ph/8stn Dmin 77km Az.gap 181°
Corr. -0.549 13M/10stn Msd 0.4

01/16443
DEC 07 194639.3s 44.20S 168.67E 5km M=3.7
0.5 0.03 0.02 R
Rsd 0.4s 16ph/9stn Dmin 79km Az.gap 176°
Corr. -0.512 15M/9stn Msd 0.2

01/16444
DEC 07 194704.1s 44.13S 168.63E 5km M=3.9
0.7 0.04 0.02 R
Rsd 0.4s 12ph/9stn Dmin 82km Az.gap 193°
Corr. -0.564 13M/8stn Msd 0.3

01/16450
DEC 07 195700.5s 44.07S 168.58E 5km M=4.1
0.3 0.02 0.02 R
Rsd 0.3s 17ph/9stn Dmin 85km Az.gap 185°
Corr. -0.595 9M/6stn Msd 0.2 1↑ 1↓

01/16451
DEC 07 195819.7s 44.13S 168.61E 5km M=3.6
0.8 0.06 0.02 R
Rsd 0.4s 10ph/6stn Dmin 81km Az.gap 252°
Corr. -0.666 13M/10stn Msd 0.4

01/16453
DEC 07 200421.7s 44.06S 168.56E 5km M=4.0
0.4 0.02 0.02 R
Rsd 0.2s 14ph/9stn Dmin 85km Az.gap 188°
Corr. -0.600 10M/6stn Msd 0.2 1↑

01/16466
DEC 07 203440.0s 44.20S 168.63E 5km M=3.5
0.6 0.04 0.02 R
Rsd 0.5s 14ph/8stn Dmin 77km Az.gap 189°
Corr. -0.445 8M/7stn Msd 0.3 1↑ 1↓

01/16468
DEC 07 203803.9s 44.11S 168.63E 5km M=3.5
0.3 0.02 0.01 R
Rsd 0.2s 14ph/9stn Dmin 84km Az.gap 181°
Corr. -0.450 10M/8stn Msd 0.2 1↑

01/16477
DEC 07 205324.3s 44.14S 168.65E 5km M=4.3
0.3 0.02 0.01 R
Rsd 0.2s 17ph/10stn Dmin 83km Az.gap 178°
Corr. -0.480 14M/8stn Msd 0.2 1↑

01/16479
DEC 07 205852.5s 44.18S 168.62E 5km M=4.8
0.3 0.02 0.01 R
Rsd 0.2s 12ph/9stn Dmin 78km Az.gap 172°
Corr. -0.396 20M/11stn Msd 0.2 1↓

01/16500
DEC 07 215634.6s 44.15S 168.64E 5km M=3.6
0.3 0.02 0.01 R
Rsd 0.2s 15ph/8stn Dmin 81km Az.gap 192°
Corr. -0.554 15M/9stn Msd 0.2 1↑

01/16511
DEC 07 224155.7s 44.25S 168.62E 5km M=3.6
0.4 0.04 0.02 R
Rsd 0.3s 11ph/9stn Dmin 73km Az.gap 184°
Corr. -0.525 10M/7stn Msd 0.2 1↑ 2↓

01/16512
DEC 07 224730.6s 44.18S 168.65E 5km M=4.3
0.5 0.04 0.02 R
Rsd 0.2s 10ph/8stn Dmin 79km Az.gap 176°
Corr. -0.497 18M/10stn Msd 0.2 1↑

01/16515
DEC 07 225313.9s 44.21S 168.63E 5km M=3.7
0.5 0.04 0.02 R
Rsd 0.4s 10ph/8stn Dmin 76km Az.gap 208°
Corr. -0.470 11M/6stn Msd 0.2 1↑ 1↓

01/16526
DEC 08 000358.7s 44.24S 168.63E 5km M=3.7
0.3 0.02 0.01 R
Rsd 0.2s 11ph/9stn Dmin 74km Az.gap 186°
Corr. -0.392 13M/7stn Msd 0.2 1↑ 1↓

01/16527
DEC 08 000720.7s 44.22S 168.61E 5km M=4.1
0.4 0.03 0.02 R
Rsd 0.3s 11ph/9stn Dmin 74km Az.gap 187°
Corr. -0.260 10M/6stn Msd 0.3 1↑

01/16535
DEC 08 005343.1s 44.11S 168.66E 5km M=3.9
0.3 0.02 0.02 R
Rsd 0.3s 17ph/9stn Dmin 86km Az.gap 180°
Corr. -0.594 8M/5stn Msd 0.1 1↓

01/16539
DEC 08 010728.6s 44.16S 168.63E 5km M=3.6
0.4 0.03 0.01 R
Rsd 0.3s 15ph/8stn Dmin 80km Az.gap 191°
Corr. -0.521 10M/7stn Msd 0.2 1↑

01/16540
DEC 08 011029.7s 44.17S 168.63E 5km M=4.6
0.3 0.02 0.01 R
Rsd 0.2s 16ph/9stn Dmin 79km Az.gap 170°
Corr. -0.475 18M/10stn Msd 0.2 1↑ 1↓

01/16543
DEC 08 011517.9s 46.09S 165.86E 33km M=3.7
0.9 0.07 0.06 R
Rsd 0.3s 10ph/5stn Dmin 122km Az.gap 333°
Corr. -0.086 9M/5stn Msd 0.2

01/16544
DEC 08 012207.3s 44.14S 168.63E 5km M=3.6
0.3 0.02 0.01 R
Rsd 0.3s 15ph/8stn Dmin 82km Az.gap 193°
Corr. -0.528 7M/6stn Msd 0.2

01/16549
DEC 08 015407.2s 44.21S 168.64E 5km M=4.1
0.4 0.02 0.02 R
Rsd 0.3s 17ph/9stn Dmin 76km Az.gap 174°
Corr. -0.540 13M/7stn Msd 0.1 1↑

01/16555
DEC 08 022621.7s 44.22S 168.62E 5km M=4.2
0.3 0.02 0.01 R
Rsd 0.2s 17ph/10stn Dmin 75km Az.gap 175°
Corr. -0.388 12M/7stn Msd 0.2

01/16556
DEC 08 023019.7s 44.22S 168.67E 5km M=3.8
0.3 0.02 0.02 R
Rsd 0.3s 17ph/9stn Dmin 77km Az.gap 172°
Corr. -0.522 15M/9stn Msd 0.2 1↑

01/16559
DEC 08 023922.3s 44.20S 168.62E 5km M=3.8
0.2 0.02 0.01 R
Rsd 0.2s 17ph/9stn Dmin 77km Az.gap 189°
Corr. -0.613 8M/5stn Msd 0.2 1↑

01/16574
DEC 08 043723.6s 45.11S 167.56E 117km M=3.5
0.5 0.02 0.02 4
Rsd 0.3s 14ph/7stn Dmin 51km Az.gap 173°
Corr. -0.283 10M/6stn Msd 0.2 1↑

01/16613
DEC 08 102107.5s 37.11S 177.26E 208km M=3.8
0.6 0.10 0.09 6
Rsd 0.2s 5ph/3stn Dmin 129km Az.gap 332°
Corr. 0.467 1M/1stn Msd N.D.

01/16616
DEC 08 111312.5s 37.46S 177.74E 84km M=3.8
0.4 0.02 0.02 3
Rsd 0.2s 18ph/14stn Dmin 50km Az.gap 246°
Corr. 0.507 11M/9stn Msd 0.2 2↑ 1↓

01/16628
DEC 08 141533.3s 44.18S 168.66E 5km M=3.6
0.3 0.02 0.02 R
Rsd 0.3s 16ph/9stn Dmin 80km Az.gap 179°
Corr. -0.529 11M/8stn Msd 0.2

01/16633
DEC 08 145601.5s 37.43S 177.42E 5km M=3.8
0.5 0.04 0.01 R
Rsd 0.3s 16ph/15stn Dmin 24km Az.gap 208°
Corr. 0.364 20M/17stn Msd 0.2 1↑

01/16659
DEC 08 185145.7s 37.23S 179.81W 33km M=3.8
0.5 0.05 0.04 R
Rsd 0.1s 4ph/3stn Dmin 194km Az.gap 341°
Corr. -0.352 1M/1stn Msd N.D.

01/16673
DEC 08 223623.4s 35.76S 179.26E 306km M=4.3
0.6 0.08 0.08 5
Rsd 0.2s 13ph/11stn Dmin 272km Az.gap 338°
Corr. -0.507 8M/8stn Msd 0.1

01/16710
DEC 09 091514.0s 36.50S 177.83E 218km M=4.0
0.8 0.09 0.06 7
Rsd 0.3s 9ph/7stn Dmin 179km Az.gap 315°
Corr. -0.282 5M/5stn Msd 0.3

01/16714
DEC 09 102831.6s 37.03S 179.98E 33km M=3.8
1.2 0.05 0.09 R
Rsd 0.3s 4ph/3stn Dmin 191km Az.gap 319°
Corr. -0.215 2M/2stn Msd 0.0

01/16763
DEC 10 030640.5s 45.07S 167.37E 84km M=4.8
0.2 0.01 0.01 2
Rsd 0.2s 18ph/10stn Dmin 47km Az.gap 198°
Corr. -0.324 15M/9stn Msd 0.4 6↑ 2↓

01/16765
DEC 10 031736.5s 38.97S 175.29E 251km M=3.7
0.4 0.05 0.03 5
Rsd 0.2s 16ph/13stn Dmin 190km Az.gap 304°
Corr. -0.223 10M/10stn Msd 0.3 1↑

01/16769
DEC 10 035201.0s 38.54S 175.72E 160km M=4.4
0.3 0.03 0.01 3
Rsd 0.2s 22ph/16stn Dmin 53km Az.gap 192°
Corr. -0.335 15M/12stn Msd 0.3 5↑ 2↓

01/16832
DEC 10 141041.5s 44.16S 168.71E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.2s 23ph/13stn Dmin 10km Az.gap 61°
Corr. 0.243 19M/12stn Msd 0.2 3↑ 1↓

01/16871
DEC 10 211141.4s 39.75S 174.77E 94km M=3.9
0.2 0.01 0.01 3
Rsd 0.3s 40ph/30stn Dmin 15km Az.gap 65°
Corr. -0.128 15M/12stn Msd 0.1 6↑ 3↓

01/16875
DEC 10 231159.5s 44.12S 168.69E 5km M=3.5
0.1 0.01 0.01 R
Rsd 0.2s 18ph/10stn Dmin 6km Az.gap 75°
Corr. 0.160 17M/10stn Msd 0.2 3↑ 2↓

01/16876
DEC 10 233504.2s 37.54S 177.04E 147km M=3.7
0.6 0.03 0.04 4
Rsd 0.3s 10ph/6stn Dmin 80km Az.gap 274°
Corr. -0.506 5M/5stn Msd 0.2 1↑

01/16882
DEC 11 025754.0s 38.29S 178.41E 32km M=3.7
0.2 0.01 0.02 1
Rsd 0.1s 6ph/4stn Dmin 27km Az.gap 247°
Corr. 0.622 1M/1stn Msd N.D. 1↑ 1↓

01/16885
DEC 11 033428.2s 38.24S 178.61E 28km M=4.2
0.9 0.04 0.07 3
Rsd 0.4s 6ph/4stn Dmin 36km Az.gap 282°
Corr. 0.614 1M/1stn Msd N.D. 3↑ 1↓

01/16900
DEC 11 081426.3s 37.81S 179.96E 33km M=3.9
1.3 0.09 0.08 R
Rsd 0.6s 7ph/5stn Dmin 152km Az.gap 322°
Corr. 0.062 1M/1stn Msd N.D. 1↑ 1↓

01/16912
DEC 11 140732.8s 44.17S 168.65E 5km M=3.7
0.1 0.01 0.01 R
Rsd 0.3s 22ph/14stn Dmin 8km Az.gap 122°
Corr. -0.193 12M/7stn Msd 0.1 5↑ 2↓

01/16932
DEC 11 213038.2s 37.58S 178.25E 62km M=3.8
0.4 0.03 0.03 5
Rsd 0.3s 10ph/7stn Dmin 55km Az.gap 247°
Corr. 0.325 4M/2stn Msd 0.1 1↑ 1↓

01/16936
DEC 11 221541.8s 38.72S 174.44E 12km M=3.5
0.1 0.01 0.01 R
Rsd 0.2s 25ph/21stn Dmin 64km Az.gap 144°
Corr. -0.519 32M/28stn Msd 0.3 4↑ 1↓

01/16944
DEC 11 234445.3s 36.58S 178.18E 12km M=3.7
0.6 0.04 0.03 R
Rsd 0.2s 7ph/3stn Dmin 166km Az.gap 317°
Corr. -0.027 2M/2stn Msd 0.2

01/16960
DEC 12 035932.8s 37.19S 176.76E 216km M=3.9
0.8 0.07 0.06 6
Rsd 0.3s 11ph/9stn Dmin 123km Az.gap 298°
Corr. -0.327 6M/6stn Msd 0.2 1↑

01/16985
DEC 12 085139.6s 37.48S 176.02E 277km M=4.3
0.2 0.08 0.05 4
Rsd 0.1s 11ph/8stn Dmin 130km Az.gap 251°
Corr. -0.862 16M/14stn Msd 0.2

01/16986
DEC 12 085659.1s 38.99S 175.62E 122km M=3.9
0.3 0.01 0.01 2
Rsd 0.2s 28ph/21stn Dmin 7km Az.gap 96°
Corr. -0.357 16M/13stn Msd 0.3 6↑ 2↓

01/17004
DEC 12 133011.4s 45.13S 167.11E 5km M=4.5
0.2 0.01 0.01 R
Rsd 0.1s 18ph/11stn Dmin 38km Az.gap 231°
Corr. -0.617 20M/11stn Msd 0.2 1↓

01/17064
DEC 13 014502.5s 45.35S 166.64E 12km M=3.9
0.7 0.03 0.04 R
Rsd 0.4s 9ph/5stn Dmin 43km Az.gap 293°
Corr. 0.339 9M/5stn Msd 0.2 2↑ 1↓

01/17080
DEC 13 034024.2s 38.57S 175.84E 149km M=4.5
0.4 0.02 0.01 3
Rsd 0.2s 33ph/26stn Dmin 14km Az.gap 96°
Corr. -0.133 12M/6stn Msd 0.3 7↑ 3↓

01/17081
DEC 13 034051.5s 41.51S 173.04E 75km M=3.5
0.3 0.01 0.01 3
Rsd 0.3s 21ph/15stn Dmin 31km Az.gap 75°
Corr. -0.117 6M/6stn Msd 0.4 1↑

01/17157
DEC 13 154045.1s 37.97S 177.95E 50km M=3.7
0.7 0.04 0.03 7
Rsd 0.4s 7ph/4stn Dmin 29km Az.gap 227°
Corr. 0.253 4M/2stn Msd 0.1 1↓

01/17158
DEC 13 164502.2s 36.74S 179.35W 33km M=4.1
0.5 0.03 0.03 R
Rsd 0.2s 10ph/7stn Dmin 258km Az.gap 313°
Corr. -0.046 11M/8stn Msd 0.2

01/17165
DEC 13 184819.5s 36.64S 178.99W 33km M=4.1
0.7 0.08 0.06 R
Rsd 0.3s 10ph/7stn Dmin 291km Az.gap 344°
Corr. -0.619 7M/6stn Msd 0.2

01/17194
DEC 14 011609.1s 37.57S 179.36E 12km M=3.8
0.9 0.09 0.05 R
Rsd 0.4s 6ph/4stn Dmin 112km Az.gap 334°
Corr. -0.425 2M/2stn Msd 0.1 1↑

01/17197
DEC 14 015147.1s 36.54S 178.74W 33km M=3.7
0.0 0.01 0.00 R
Rsd 0.0s 4ph/3stn Dmin 316km Az.gap 347°
Corr. -0.450 2M/2stn Msd 0.3

01/17208
DEC 14 035339.1s 38.10S 178.71E 21km M=3.8
0.9 0.04 0.05 3
Rsd 0.3s 12ph/9stn Dmin 40km Az.gap 307°
Corr. 0.579 10M/8stn Msd 0.1 2↑ 1↓

01/17209
DEC 14 035424.3s 37.94S 178.37E 20km M=3.5
0.8 0.05 0.04 3
Rsd 0.3s 6ph/4stn Dmin 17km Az.gap 309°
Corr. 0.327 4M/2stn Msd 0.2

01/17230
DEC 14 093852.3s 36.99S 179.96E 89km M=4.0
0.7 0.05 0.05 18
Rsd 0.3s 11ph/9stn Dmin 192km Az.gap 305°
Corr. 0.364 3M/3stn Msd 0.0

01/17265
DEC 14 183339.0s 38.55S 176.19E 104km M=3.7
0.4 0.02 0.01 4
Rsd 0.2s 23ph/18stn Dmin 19km Az.gap 130°
Corr. -0.602 16M/14stn Msd 0.1 2↑ 6↓

01/17269
DEC 14 200309.7s 38.22S 176.20E 149km M=3.8
0.5 0.03 0.02 3
Rsd 0.2s 12ph/9stn Dmin 80km Az.gap 223°
Corr. -0.342 14M/13stn Msd 0.2 1↑

01/17302
DEC 15 083453.1s 36.72S 178.88W 33km M=3.9
0.4 0.05 0.03 R
Rsd 0.1s 7ph/4stn Dmin 295km Az.gap 346°
Corr. -0.652 3M/3stn Msd 0.3

01/17339
DEC 15 200057.7s 38.18S 175.96E 174km M=3.7
0.5 0.02 0.02 4
Rsd 0.2s 9ph/7stn Dmin 98km Az.gap 248°
Corr. -0.190 11M/9stn Msd 0.2 1↓

01/17393
DEC 16 132507.3s 37.74S 177.26E 77km M=3.5
0.2 0.02 0.01 2
Rsd 0.1s 7ph/4stn Dmin 60km Az.gap 280°
Corr. -0.397 4M/2stn Msd 0.2 1↑

01/17398
DEC 16 152343.4s 36.37S 179.06W 144km M=4.2
0.4 0.05 0.03 10
Rsd 0.1s 10ph/8stn Dmin 304km Az.gap 316°
Corr. 0.074 3M/3stn Msd 0.2

01/17405
DEC 16 161935.0s 39.61S 174.45E 188km M=4.7
0.4 0.01 0.02 3
Rsd 0.2s 41ph/34stn Dmin 36km Az.gap 74°
Corr. -0.326 10M/5stn Msd 0.3 13↑ 6↓

01/17408
DEC 16 170137.7s 37.83S 178.48E 5km M=4.1
0.6 0.02 0.04 R
Rsd 0.2s 15ph/12stn Dmin 34km Az.gap 275°
Corr. 0.517 36M/33stn Msd 0.4 1↑

01/17409
DEC 16 170218.9s 37.44S 176.93E 156km M=4.3
0.5 0.04 0.03 5
Rsd 0.2s 15ph/11stn Dmin 93km Az.gap 191°
Corr. 0.563 8M/4stn Msd 0.1

01/17459
DEC 17 072630.7s 36.90S 179.84W 33km M=3.7
1.4 0.19 0.12 R
Rsd 0.4s 7ph/5stn Dmin 213km Az.gap 342°
Corr. -0.624 5M/5stn Msd 0.2

01/17463
DEC 17 100336.5s 37.51S 179.65W 33km M=3.9
1.2 0.11 0.06 R
Rsd 0.5s 10ph/7stn Dmin 195km Az.gap 328°
Corr. -0.029 6M/4stn Msd 0.3

01/17471
DEC 17 122255.5s 44.97S 167.50E 75km M=3.6
0.3 0.01 0.02 3
Rsd 0.2s 20ph/11stn Dmin 47km Az.gap 197°
Corr. -0.484 9M/5stn Msd 0.1 4↑ 2↓

01/17505
DEC 17 220920.1s 37.11S 179.92W 33km M=3.7
0.6 0.08 0.05 R
Rsd 0.2s 5ph/3stn Dmin 193km Az.gap 344°
Corr. -0.601 2M/2stn Msd 0.2

01/17521
DEC 18 053301.9s 36.92S 177.21E 232km M=3.9
0.5 0.07 0.04 5
Rsd 0.2s 12ph/9stn Dmin 149km Az.gap 290°
Corr. -0.426 11M/11stn Msd 0.2

01/17522
DEC 18 053500.9s 38.66S 176.45E 154km M=3.7
0.2 0.02 0.01 2
Rsd 0.1s 12ph/10stn Dmin 72km Az.gap 169°
Corr. -0.707 6M/6stn Msd 0.3 1↑ 1↓

01/17536
DEC 18 072643.9s 37.53S 179.82W 33km M=3.5
0.2 0.15 0.05 R
Rsd 0.1s 4ph/2stn Dmin 180km Az.gap 358°
Corr. -0.961 2M/2stn Msd 0.0

01/17564
DEC 18 135629.6s 38.33S 175.85E 154km M=3.8
0.5 0.04 0.02 4
Rsd 0.2s 11ph/8stn Dmin 80km Az.gap 222°
Corr. -0.623 11M/11stn Msd 0.2 1↑ 1↓

01/17570
DEC 18 151756.1s 37.47S 179.98W 33km M=4.1
0.9 0.04 0.06 R
Rsd 0.3s 10ph/7stn Dmin 169km Az.gap 315°
Corr. 0.094 7M/5stn Msd 0.3 1↑

01/17622
DEC 19 082638.7s 41.50S 173.92E 48km M=3.7
0.1 0.01 0.01 2
Rsd 0.2s 30ph/21stn Dmin 9km Az.gap 57°
Corr. -0.209 13M/11stn Msd 0.2 1↓
Felt Rarangi (77).

01/17626
DEC 19 094229.3s 45.96S 166.71E 33km M=3.5
0.6 0.03 0.04 R
Rsd 0.3s 9ph/5stn Dmin 96km Az.gap 308°
Corr. 0.156 8M/5stn Msd 0.2

01/17693
DEC 20 064655.6s 36.83S 179.99W 33km M=4.3
0.6 0.03 0.04 R
Rsd 0.2s 14ph/12stn Dmin 208km Az.gap 311°
Corr. -0.096 16M/14stn Msd 0.3

01/17708
DEC 20 123748.0s 44.99S 167.60E 126km M=4.1
0.4 0.02 0.02 3
Rsd 0.2s 17ph/9stn Dmin 43km Az.gap 265°
Corr. 0.043 18M/11stn Msd 0.2 4↑ 5↓

01/17745
DEC 20 193526.3s 37.22S 179.39W 33km M=4.2
0.4 0.04 0.03 R
Rsd 0.1s 10ph/6stn Dmin 228km Az.gap 333°
Corr. -0.377 11M/11stn Msd 0.2

01/17751
DEC 20 222111.5s 36.46S 178.67E 33km M=3.6
0.9 0.06 0.06 R
Rsd 0.3s 7ph/5stn Dmin 183km Az.gap 327°
Corr. -0.081 3M/3stn Msd 0.3

01/17773
DEC 21 035721.0s 38.76S 175.04E 234km M=3.7
0.9 0.06 0.02 8
Rsd 0.1s 11ph/10stn Dmin 51km Az.gap 192°
Corr. -0.628 9M/9stn Msd 0.2

01/17791
DEC 21 100002.9s 38.28S 175.87E 164km M=3.6
0.5 0.05 0.03 5
Rsd 0.2s 9ph/7stn Dmin 85km Az.gap 237°
Corr. -0.738 9M/9stn Msd 0.2 1↑

01/17809
DEC 21 140329.6s 37.76S 176.62E 170km M=3.9
0.5 0.03 0.02 4
Rsd 0.2s 21ph/17stn Dmin 26km Az.gap 245°
Corr. -0.081 13M/13stn Msd 0.2 1↑

01/17853
DEC 22 050359.9s 36.84S 177.81E 164km M=3.6
0.4 0.07 0.03 7
Rsd 0.1s 5ph/3stn Dmin 142km Az.gap 323°
Corr. -0.366 1M/1stn Msd N.D. 1↑

01/17865
DEC 22 082631.6s 38.41S 177.91E 65km M=4.9
0.2 0.01 0.01 2
Rsd 0.1s 33ph/28stn Dmin 26km Az.gap 116°
Corr. 0.319 8M/4stn Msd 0.1 12↑ 7↓
Felt Opotiki (35) to Gisborne (45).

01/17873
DEC 22 101006.8s 42.72S 172.84E 33km M=4.0
0.1 0.01 0.01 R
Rsd 0.1s 30ph/21stn Dmin 47km Az.gap 128°
Corr. -0.347 22M/11stn Msd 0.3 5↑ 3↓

01/17875
DEC 22 101601.3s 37.22S 179.98E 33km M=3.7
0.7 0.08 0.04 R
Rsd 0.2s 7ph/5stn Dmin 179km Az.gap 340°
Corr. -0.306 2M/2stn Msd 0.6

01/17894
DEC 22 144827.1s 39.78S 174.27E 121km M=3.8
0.3 0.01 0.01 3
Rsd 0.2s 40ph/29stn Dmin 52km Az.gap 99°
Corr. -0.489 15M/14stn Msd 0.3 10↑ 3↓

01/17950
DEC 23 063100.0s 35.81S 179.00E 248km M=4.5
0.3 0.04 0.04 4
Rsd 0.1s 14ph/11stn Dmin 260km Az.gap 332°
Corr. -0.439 12M/12stn Msd 0.2

01/17966
DEC 23 100840.3s 38.17S 175.58E 266km M=3.7
1.1 0.27 0.15 9
Rsd 0.3s 7ph/6stn Dmin 92km Az.gap 230°
Corr. -0.955 10M/10stn Msd 0.2

01/17968
DEC 23 111430.7s 41.03S 174.47E 60km M=3.9
0.1 0.01 0.01 2
Rsd 0.2s 38ph/31stn Dmin 26km Az.gap 48°
Corr. -0.129 9M/7stn Msd 0.2 11↑ 2↓
Felt Raumati South (65).

01/18003
DEC 23 231156.6s 37.39S 179.04W 33km M=3.6
1.2 0.10 0.07 R
Rsd 0.4s 10ph/7stn Dmin 250km Az.gap 333°
Corr. 0.177 5M/5stn Msd 0.4

01/18008
DEC 24 014325.6s 38.82S 175.39E 220km M=3.8
0.7 0.05 0.05 5
Rsd 0.2s 22ph/17stn Dmin 24km Az.gap 201°
Corr. -0.563 9M/9stn Msd 0.2 1↑

01/18010
DEC 24 020941.9s 36.75S 179.04W 33km M=4.1
0.3 0.03 0.02 R
Rsd 0.1s 5ph/3stn Dmin 281km Az.gap 345°
Corr. -0.602 1M/1stn Msd N.D.

01/18025
DEC 24 084805.9s 45.04S 167.60E 116km M=4.2
0.3 0.01 0.02 2
Rsd 0.2s 20ph/11stn Dmin 48km Az.gap 229°
Corr. 0.022 9M/6stn Msd 0.2 4↑ 3↓

01/18033
DEC 24 123106.4s 39.69S 174.30E 203km M=3.9
0.4 0.01 0.02 3
Rsd 0.3s 33ph/28stn Dmin 44km Az.gap 92°
Corr. -0.253 14M/13stn Msd 0.3 3↑ 2↓

01/18048
DEC 24 171156.0s 44.88S 167.60E 86km M=3.6
0.3 0.01 0.02 3
Rsd 0.2s 16ph/10stn Dmin 35km Az.gap 237°
Corr. -0.396 15M/9stn Msd 0.3 5↑ 3↓

01/18058
DEC 24 190259.4s 37.10S 176.60E 312km M=3.8
0.4 0.06 0.03 4
Rsd 0.1s 10ph/8stn Dmin 136km Az.gap 268°
Corr. -0.628 6M/6stn Msd 0.2 1↑

01/18070
DEC 25 013102.7s 40.52S 174.47E 55km M=4.1
0.2 0.01 0.01 5
Rsd 0.3s 39ph/35stn Dmin 53km Az.gap 83°
Corr. 0.155 10M/6stn Msd 0.2 3↑ 2↓
Felt Wanganui (57) and Marton (61).

01/18081
DEC 25 064020.0s 36.71S 179.13W 33km M=4.0
0.8 0.11 0.06 R
Rsd 0.2s 5ph/4stn Dmin 277km Az.gap 346°
Corr. -0.677 1M/1stn Msd N.D.

01/18109
DEC 25 160518.6s 44.13S 168.68E 5km M=3.7
0.1 0.01 0.01 1
Rsd 0.2s 23ph/12stn Dmin 5km Az.gap 84°
Corr. 0.058 10M/6stn Msd 0.1 3↑ 3↓

01/18112
DEC 25 162310.0s 38.18S 178.54E 12km M=3.8
0.8 0.03 0.04 R
Rsd 0.4s 8ph/4stn Dmin 27km Az.gap 285°
Corr. 0.529 1M/1stn Msd N.D. 1↓

01/18113
DEC 25 164439.6s 38.18S 178.53E 12km M=3.6
0.8 0.02 0.05 R
Rsd 0.4s 12ph/8stn Dmin 26km Az.gap 277°
Corr. 0.543 9M/9stn Msd 0.2 1↓

01/18127
DEC 25 213228.5s 37.11S 177.88E 220km M=3.6
0.9 0.09 0.10 8
Rsd 0.4s 11ph/6stn Dmin 112km Az.gap 299°
Corr. -0.449 3M/3stn Msd 0.2

01/18147
DEC 26 043848.3s 45.00S 167.46E 93km M=3.8
0.4 0.01 0.02 3
Rsd 0.3s 16ph/9stn Dmin 52km Az.gap 199°
Corr. -0.415 15M/8stn Msd 0.2 1↑

01/18151
DEC 26 053429.7s 38.25S 176.30E 151km M=3.7
0.6 0.03 0.02 5
Rsd 0.3s 10ph/7stn Dmin 71km Az.gap 142°
Corr. 0.038 11M/11stn Msd 0.2 1↑

01/18152
DEC 26 054451.9s 44.11S 168.68E 5km M=3.9
0.1 0.01 0.01 1
Rsd 0.2s 25ph/14stn Dmin 4km Az.gap 87°
Corr. 0.051 15M/8stn Msd 0.2 2↑ 4↓

01/18168
DEC 26 093943.2s 40.29S 173.51E 175km M=3.5
0.4 0.02 0.01 4
Rsd 0.2s 30ph/25stn Dmin 67km Az.gap 176°
Corr. -0.139 16M/13stn Msd 0.2 4↑ 1↓

01/18171
DEC 26 111119.6s 38.81S 178.53E 21km M=4.0
0.6 0.03 0.04 3
Rsd 0.2s 20ph/17stn Dmin 48km Az.gap 236°
Corr. -0.729 31M/28stn Msd 0.2 4↑ 1↓

01/18188
DEC 26 192518.1s 38.45S 175.98E 141km M=4.1
0.4 0.03 0.02 3
Rsd 0.2s 21ph/15stn Dmin 24km Az.gap 211°
Corr. -0.643 18M/15stn Msd 0.2 1↑

01/18198
DEC 26 224439.6s 37.54S 177.07E 125km M=3.5
0.6 0.06 0.03 6
Rsd 0.3s 14ph/11stn Dmin 80km Az.gap 259°
Corr. -0.349 6M/6stn Msd 0.1

01/18215
DEC 27 084103.7s 36.84S 179.22W 124km M=4.2
0.5 0.07 0.08 13
Rsd 0.2s 9ph/5stn Dmin 262km Az.gap 342°
Corr. -0.817 2M/2stn Msd 0.0

01/18219
DEC 27 130939.1s 42.02S 174.24E 12km M=3.7
0.2 0.02 0.01 R
Rsd 0.4s 28ph/21stn Dmin 29km Az.gap 159°
Corr. -0.558 16M/8stn Msd 0.1 8↑ 2↓

01/18220
DEC 27 132117.5s 44.19S 168.66E 5km M=4.2
0.3 0.02 0.01 R
Rsd 0.2s 16ph/9stn Dmin 80km Az.gap 175°
Corr. -0.491 11M/6stn Msd 0.2

01/18239
DEC 28 044546.6s 47.13S 166.27E 33km M=3.5
0.4 0.03 0.03 R
Rsd 0.2s 11ph/6stn Dmin 188km Az.gap 331°
Corr. -0.058 5M/5stn Msd 0.3 1↑ 1↓

01/18244
DEC 28 081511.3s 44.13S 168.61E 5km M=4.3
0.5 0.03 0.02 R
Rsd 0.3s 16ph/9stn Dmin 82km Az.gap 180°
Corr. -0.544 12M/7stn Msd 0.1 1↑

01/18247
DEC 28 093716.3s 37.10S 179.74W 33km M=3.8
0.5 0.05 0.04 R
Rsd 0.2s 9ph/6stn Dmin 207km Az.gap 336°
Corr. -0.509 7M/7stn Msd 0.3

01/18258
DEC 28 211049.3s 42.03S 174.26E 12km M=3.7
0.2 0.02 0.01 R
Rsd 0.4s 34ph/22stn Dmin 31km Az.gap 160°
Corr. -0.450 18M/9stn Msd 0.1 8↑ 1↓

01/18267
DEC 29 055356.8s 37.64S 176.39E 208km M=4.4
0.3 0.01 0.01 2
Rsd 0.1s 17ph/13stn Dmin 79km Az.gap 162°
Corr. 0.436 9M/5stn Msd 0.2 1↓

01/18271
DEC 29 090538.2s 36.55S 177.56E 237km M=4.0
0.4 0.06 0.04 5
Rsd 0.2s 8ph/6stn Dmin 180km Az.gap 307°
Corr. -0.468 10M/10stn Msd 0.2

01/18275
DEC 29 121748.4s 36.97S 179.42E 33km M=4.2
1.1 0.06 0.09 R
Rsd 0.4s 14ph/11stn Dmin 160km Az.gap 302°
Corr. -0.238 19M/19stn Msd 0.2

01/18276
DEC 29 131138.9s 37.61S 179.86E 33km M=3.8
0.7 0.07 0.04 R
Rsd 0.2s 7ph/5stn Dmin 150km Az.gap 337°
Corr. -0.006 3M/3stn Msd 0.3 1↑

01/18278
DEC 29 132950.7s 45.20S 167.38E 137km M=4.5
0.5 0.03 0.03 3
Rsd 0.3s 13ph/7stn Dmin 35km Az.gap 187°
Corr. -0.189 14M/8stn Msd 0.3 7↑ 1↓

01/18281

DEC 29 1442 40.1s 35.86S 179.95W 33km M=3.7
0.4 0.03 0.06 R
Rsd 0.1s 4ph/3stn Dmin 292km Az.gap 346°
Corr. -0.589 1M/1stn Msd N.D.

01/18291

DEC 29 2014 23.9s 38.25S 176.11E 181km M=4.6
0.3 0.02 0.01 3
Rsd 0.2s 33ph/29stn Dmin 11km Az.gap 82°
Corr. -0.329 16M/13stn Msd 0.3 6↑ 5↓

01/18304

DEC 30 0626 58.4s 40.23S 173.56E 147km M=5.0
0.3 0.01 0.01 3
Rsd 0.2s 47ph/37stn Dmin 71km Az.gap 146°
Corr. -0.035 10M/5stn Msd 0.3 20↑ 12↓
Felt Wainuiomata (68).

01/18306

DEC 30 0710 35.7s 44.18S 168.62E 5km M=3.5
0.3 0.02 0.01 R
Rsd 0.2s 13ph/8stn Dmin 77km Az.gap 177°
Corr. -0.494 14M/11stn Msd 0.3 1↑

01/18318

DEC 30 1701 22.7s 44.13S 168.67E 5km M=3.9
0.4 0.02 0.02 R
Rsd 0.3s 16ph/9stn Dmin 85km Az.gap 178°
Corr. -0.341 10M/6stn Msd 0.1 1↑

01/18321

DEC 30 1727 15.6s 41.35S 173.45E 97km M=4.0
0.3 0.01 0.01 3
Rsd 0.3s 32ph/23stn Dmin 34km Az.gap 68°
Corr. -0.245 17M/13stn Msd 0.3 3↑ 11↓

01/18342

DEC 31 0646 53.0s 37.66S 179.29E 33km M=3.7
0.0 0.00 0.00 R
Rsd 0.0s 4ph/2stn Dmin 102km Az.gap 340°
Corr. -0.248 1M/1stn Msd N.D. 1↓

01/18349

DEC 31 0903 04.3s 38.55S 176.18E 104km M=3.7
0.4 0.01 0.01 4
Rsd 0.2s 19ph/16stn Dmin 20km Az.gap 150°
Corr. -0.659 8M/8stn Msd 0.2 2↑ 2↓

HIGHER MAGNITUDE EARTHQUAKES

A chronological list of 2001 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 Institute.

In the following table, Rsd is as defined on page 35 and NP phases from NS recording stations have been used to determine the origins.

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
1574	FEB 01	1230 39.4	37.24S	177.74E	113	5.5F	0.1	99	60
1964	FEB 08	1209 43.4	36.82S	176.95E	312	5.2	0.2	65	54
2198	FEB 12	0434 18.5	46.94S	165.32E	33R	5.0	0.2	12	6
4778	MAR 25	1144 0.4	37.96S	175.95E	271	5.3	0.3	99	86
5104	APR 01	0928 41.7	35.49S	179.26E	203	5.1	0.3	55	50
5654	APR 12	0813 24.9	47.52S	165.03E	33R	5.5	0.3	15	8
6032	APR 18	1934 48.0	47.51S	165.13E	33R	5.4	0.4	15	8
7549	MAY 15	0515 12.4	37.12S	176.79E	398	5.7	0.1	75	62
7742	MAY 18	1056 55.8	43.41S	171.00E	5R	5.5F	0.2	16	11
7866	MAY 21	2153 31.4	37.83S	177.36E	108	5.2F	0.2	99	74
7868	MAY 22	0158 11.2	41.72S	173.80E	13	5.0F	0.2	32	25
7969	MAY 24	1807 57.9	38.75S	175.20E	238	6.5F	0.3	99	85
8173	MAY 29	0239 27.4	37.71S	176.32E	303	5.2	0.3	78	71
10955	AUG 12	0742 43.5	38.00S	175.95E	270	5.1	0.2	35	30
11144	AUG 21	0651 57.7	36.49S	178.48W	33R	7.1F	0.2	32	30
11177	AUG 21	1222 20.7	36.80S	179.36W	33R	5.1	0.2	26	21
11190	AUG 21	1344 41.0	36.65S	179.27W	33R	5.3	0.4	25	20
11227	AUG 21	1720 37.2	36.59S	178.99W	33R	5.0	0.2	26	20
11277	AUG 22	0316 10.4	36.75S	179.29W	33R	5.1	0.3	21	16
11282	AUG 22	0439 27.9	36.90S	179.45W	33R	5.3	0.2	21	17
11288	AUG 22	0528 2.5	36.85S	179.39W	33R	5.1	0.3	15	11
11332	AUG 22	1341 56.8	36.96S	179.42W	33R	5.0	0.4	25	20
11453	AUG 24	1104 35.4	37.20S	179.08W	33R	5.0	0.3	20	16
11481	AUG 24	2116 32.0	36.73S	179.18W	33R	5.2	0.2	22	18
11483	AUG 24	2118 48.0	36.31S	178.86W	33R	5.1	0.6	12	9
11487	AUG 24	2133 44.1	37.51S	177.79W	33R	5.3	0.5	17	14
11654	AUG 27	1250 35.8	36.55S	179.41W	33R	5.4	0.3	33	26
11659	AUG 27	1456 35.0	36.76S	179.49W	33R	5.1	0.2	29	25
11702	AUG 28	0427 16.9	36.99S	177.07E	268	5.1	0.2	22	18
11769	AUG 29	1354 56.7	36.50S	179.09W	33R	5.1	0.2	22	17

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
11829	AUG 30	2236 54.6	37.12S	179.56W	33R	5.3	0.3	17	13
12934	SEP 22	1328 58.4	36.71S	178.56W	33R	5.1	0.1	15	9
12996	SEP 24	0449 57.0	40.42S	176.74E	37	5.6F	0.2	44	39
13876	OCT 15	0349 38.5	39.69S	176.73E	41	5.8F	0.2	46	42
14107	OCT 21	0028 57.7	36.48S	178.83W	33R	6.4F	0.2	26	20
14111	OCT 21	0038 9.0	37.14S	179.91W	33R	5.1	0.2	12	9
14289	OCT 22	0128 52.8	37.04S	179.70W	33R	5.1	0.1	25	20
14443	OCT 23	1938 38.3	38.55S	175.85E	165	5.4	0.2	47	37
14643	OCT 26	2132 42.8	35.35S	178.85E	222	5.0	0.2	19	15
14824	OCT 30	1535 24.7	37.17S	179.92E	33R	5.1	0.2	20	16
14907	NOV 01	2243 54.1	36.90S	179.98E	33R	5.1	0.2	22	17
15011	NOV 03	0340 23.7	36.92S	179.84W	33R	5.0	0.2	20	17
15293	NOV 09	0456 39.0	41.51S	173.32E	92	5.4F	0.2	46	38
16401	DEC 07	1927 35.0	44.11S	168.61E	5R	6.2F	0.2	17	13

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 35 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 31.

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
015	JAN 01	1209 12.9	41.48S	174.37E	19	2.0	0.2	10	7
017	JAN 01	1256 45.1	40.89S	175.76E	23	2.7	0.3	14	10
019	JAN 01	1342 37.6	41.09S	174.89E	31	2.9	0.1	18	13
020	JAN 01	1421 41.0	41.01S	174.27E	54	2.0	0.1	8	5
021	JAN 01	1700 22.3	41.68S	174.28E	11	2.4	0.1	10	8
042	JAN 02	0622 17.2	40.59S	175.70E	38	4.3F	0.2	41	32
043	JAN 02	0628 21.6	40.59S	175.66E	33	2.4	0.2	7	4
056	JAN 02	1516 47.6	41.59S	174.20E	14	2.1	0.1	9	6
058	JAN 02	1711 33.5	41.41S	174.99E	23	2.1	0.1	11	7
079	JAN 02	2357 34.4	41.95S	173.78E	14	2.8	0.1	13	10
082	JAN 03	0108 43.7	41.37S	173.97E	49	2.2	0.2	9	7
101	JAN 03	1055 23.5	40.90S	175.22E	25	2.7	0.2	16	12
102	JAN 03	1059 49.3	41.54S	174.27E	8	3.1	0.3	25	17
110	JAN 03	1439 5.1	41.25S	175.34E	28	2.9	0.1	16	11
117	JAN 03	1654 21.5	40.62S	173.65E	139	2.8	0.2	10	8
136	JAN 04	0721 51.3	41.38S	174.35E	58	2.4	0.1	7	6
140	JAN 04	1051 17.0	41.44S	174.44E	29	2.1	0.2	10	7
144	JAN 04	1414 43.1	41.07S	174.79E	31	2.4	0.0	8	5
179	JAN 05	0714 57.9	40.81S	175.65E	12R	2.2	0.2	8	6
206	JAN 05	1810 48.2	41.46S	175.30E	15	2.2	0.1	10	7
209	JAN 05	2015 14.7	41.81S	174.76E	27	2.6	0.1	10	7
210	JAN 05	2015 19.6	41.79S	174.79E	33R	2.6	0.2	11	8
222	JAN 06	0339 24.7	41.96S	174.39E	28	2.1	0.2	10	6
245	JAN 06	1311 22.2	41.06S	174.34E	62	2.3	0.1	9	6
255	JAN 06	1738 10.2	41.73S	174.04E	13	2.3	0.2	9	6
260	JAN 06	1831 14.4	40.79S	175.46E	35	3.5	0.2	26	21
271	JAN 07	0141 1.3	40.61S	174.15E	80	2.4	0.2	11	7
276	JAN 07	0357 34.2	41.43S	173.79E	56	2.6	0.2	18	14
278	JAN 07	0504 48.9	40.62S	174.38E	38	2.4	0.2	14	9
279	JAN 07	0517 49.8	41.17S	174.75E	31	2.5	0.1	17	11

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
282	JAN 07	0710 30.1	41.27S	173.55E	91	2.9	0.2	19	13
286	JAN 07	0821 37.6	41.72S	174.23E	11	2.1	0.1	10	7
288	JAN 07	0905 26.6	41.49S	174.39E	12R	2.5	0.3	16	12
291	JAN 07	1124 32.2	40.60S	175.94E	24	2.8	0.3	20	18
293	JAN 07	1359 31.5	41.27S	175.02E	26	2.1	0.2	9	7
294	JAN 07	1601 5.6	41.84S	174.23E	11	2.8	0.2	21	15
295	JAN 07	1654 38.5	41.83S	174.17E	11	2.2	0.2	8	6
301	JAN 07	1814 32.5	41.79S	174.19E	11	2.4	0.2	11	9
304	JAN 07	2050 46.4	41.83S	174.21E	14	2.5	0.2	10	7
310	JAN 08	0221 2.0	41.26S	175.19E	23	2.0	0.2	12	8
311	JAN 08	0314 16.9	40.84S	174.74E	46	2.6	0.2	15	11
312	JAN 08	0350 37.9	41.55S	174.77E	23	2.4	0.2	11	9
328	JAN 08	1346 56.9	41.26S	175.29E	24	2.5	0.2	13	9
334	JAN 08	1457 14.6	41.77S	174.43E	21	2.0	0.2	9	6
337	JAN 08	1612 3.2	40.53S	174.73E	31	2.2	0.3	12	7
341	JAN 08	1948 39.9	40.87S	174.74E	15	2.1	0.1	9	5
344	JAN 09	0114 30.9	41.87S	174.10E	35	2.3	0.0	8	6
345	JAN 09	0139 40.5	41.06S	174.55E	41	2.8	0.1	20	14
356	JAN 09	0927 38.3	41.16S	174.90E	51	2.1	0.1	10	7
358	JAN 09	1016 58.7	40.93S	174.53E	59	3.1	0.2	25	20
359	JAN 09	1032 58.1	40.57S	174.59E	73	2.6	0.2	10	7
368	JAN 09	1540 5.3	40.74S	174.44E	50	2.4	0.1	11	7
369	JAN 09	1550 51.8	41.03S	174.14E	75	2.6	0.3	18	12
380	JAN 09	2254 4.5	41.03S	174.75E	51	2.3	0.2	13	9
394	JAN 10	0618 47.9	40.75S	173.98E	62	2.2	0.2	10	6
403	JAN 10	1002 56.7	41.01S	174.57E	53	2.3	0.1	9	7
405	JAN 10	1013 53.0	41.16S	175.12E	27	2.1	0.2	10	7
418	JAN 10	2114 33.5	40.70S	175.45E	29	2.7	0.2	13	10
421	JAN 11	0023 2.1	41.70S	174.52E	28	2.9	0.2	18	13
428	JAN 11	0510 19.6	40.95S	173.73E	72	2.6	0.1	11	6
430	JAN 11	0522 47.9	41.77S	174.36E	33R	3.4	0.2	30	19
436	JAN 11	0836 22.8	41.43S	174.02E	43	2.0	0.1	7	5
439	JAN 11	1042 37.6	41.39S	174.54E	56	3.1	0.2	18	13
449	JAN 11	1742 45.1	40.80S	175.71E	15	2.7	0.2	15	10
452	JAN 11	1824 22.9	41.06S	174.04E	55	2.6	0.2	11	7
455	JAN 11	2137 21.7	40.58S	174.46E	59	3.4	0.2	25	20
456	JAN 11	2145 55.6	41.06S	175.23E	28	2.1	0.1	8	6
459	JAN 11	2302 9.3	41.57S	174.04E	35	2.3	0.1	8	6
463	JAN 12	0041 33.9	40.82S	174.49E	44	2.0	0.1	9	6
465	JAN 12	0137 37.9	41.42S	174.98E	25	2.4	0.1	17	11
469	JAN 12	0635 30.1	41.01S	175.44E	27	2.3	0.1	11	8
501	JAN 13	0328 34.5	41.91S	174.19E	31	3.2	0.2	25	19
506	JAN 13	0729 44.2	40.62S	174.40E	33R	2.4	0.2	11	7
517	JAN 13	1147 28.4	40.67S	174.32E	104	2.6	0.2	10	7
519	JAN 13	1255 13.1	40.94S	175.14E	27	2.0	0.1	8	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
526	JAN 13	1432 31.3	41.23S	173.92E	50	2.6	0.2	17	12
534	JAN 13	1627 25.0	41.50S	174.40E	12R	3.2	0.2	22	17
540	JAN 13	1753 23.9	41.26S	174.86E	25	3.3F	0.2	20	16
544	JAN 13	1938 38.4	41.52S	174.41E	5R	2.1	0.2	9	7
556	JAN 14	0247 0.8	40.83S	175.08E	28	2.7	0.3	18	14
557	JAN 14	0340 15.3	40.84S	174.61E	70	3.7	0.2	45	34
559	JAN 14	0434 57.0	41.18S	174.15E	61	2.4	0.1	13	8
568	JAN 14	1231 15.8	41.82S	173.93E	35	2.8	0.1	12	7
570	JAN 14	1255 40.6	41.48S	174.82E	25	2.1	0.1	10	8
574	JAN 14	1505 6.5	41.01S	174.72E	33	2.0	0.2	13	9
590	JAN 14	2332 47.8	41.22S	175.23E	22	2.6	0.2	14	10
598	JAN 15	0256 35.1	40.85S	175.37E	22	3.0	0.3	20	15
599	JAN 15	0317 9.7	40.97S	174.68E	39	3.1	0.1	19	16
615	JAN 15	1339 25.3	41.86S	174.15E	30	2.6	0.1	13	7
616	JAN 15	1513 39.3	41.05S	173.85E	58	2.9	0.3	15	9
617	JAN 15	1710 41.7	41.01S	174.63E	29	2.1	0.1	8	6
629	JAN 16	0749 46.2	41.68S	174.60E	34	2.6	0.1	11	7
639	JAN 16	1153 15.9	40.58S	174.09E	80	3.7	0.2	40	35
645	JAN 16	1359 15.1	40.81S	174.82E	36	2.7	0.2	13	10
652	JAN 16	1822 46.9	41.85S	174.87E	31	3.0	0.2	18	13
655	JAN 16	1959 1.8	41.22S	175.29E	25	2.3	0.1	11	8
657	JAN 16	2037 26.9	41.23S	174.33E	18	2.6	0.3	11	7
659	JAN 16	2116 2.9	40.99S	175.66E	5R	2.1	0.2	7	5
663	JAN 17	0351 43.0	40.79S	175.33E	27	2.1	0.1	8	6
697	JAN 17	1710 5.2	41.36S	174.47E	56	2.7	0.1	15	11
718	JAN 18	0023 30.7	41.18S	174.61E	35	2.3	0.1	10	8
726	JAN 18	0208 21.3	41.18S	174.77E	32	2.8	0.1	17	13
740	JAN 18	0739 43.7	41.55S	175.46E	26	2.3	0.1	7	5
743	JAN 18	1043 17.0	40.70S	175.49E	26	2.4	0.2	11	8
759	JAN 18	1540 44.7	41.38S	175.11E	29	3.0	0.2	19	14
771	JAN 18	2051 36.2	40.51S	174.21E	12R	2.2	0.3	9	6
812	JAN 19	1430 22.7	40.63S	174.02E	81	2.6	0.2	17	11
821	JAN 19	1622 26.4	41.01S	175.43E	32	3.0	0.2	17	13
823	JAN 19	1750 35.5	40.58S	174.99E	32	2.2	0.1	5	4
830	JAN 19	2007 51.0	40.57S	174.41E	56	2.3	0.2	7	5
903	JAN 20	0500 31.5	41.42S	174.05E	40	3.0	0.2	23	15
924	JAN 20	1347 30.4	40.71S	175.53E	32	3.3F	0.3	61	53
929	JAN 20	1606 53.0	40.90S	173.83E	68	2.7	0.2	16	9
942	JAN 20	2241 9.9	41.02S	175.41E	29	2.7	0.1	13	9
948	JAN 21	0129 14.1	40.61S	174.25E	75	3.9F	0.2	49	37
962	JAN 21	0914 16.3	40.54S	174.73E	29	2.2	0.2	9	6
963	JAN 21	0929 52.5	41.72S	174.24E	29	2.7	0.3	18	12
987	JAN 21	1658 1.9	41.16S	174.74E	33	2.6	0.1	16	12
992	JAN 21	1836 41.2	40.75S	173.57E	120	2.8	0.2	14	12
993	JAN 21	1838 21.7	41.54S	173.78E	76	2.4	0.1	5	4

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
1003	JAN 21	2327 0.0	41.29S	174.98E	29	2.7	0.2	13	11
1007	JAN 22	0010 48.3	40.67S	175.35E	32	2.2	0.1	9	6
1021	JAN 22	0602 26.1	41.90S	173.60E	49	3.4	0.2	25	17
1040	JAN 22	1145 53.5	41.10S	175.11E	28	2.4	0.2	12	8
1046	JAN 22	1252 59.5	41.58S	173.71E	48	2.6	0.3	8	4
1077	JAN 23	0021 30.3	40.83S	175.12E	32	2.6	0.2	13	9
1092	JAN 23	0626 26.7	40.75S	173.70E	195	2.9	0.1	7	6
1102	JAN 23	0950 54.8	41.05S	174.92E	26	2.0	0.3	8	6
1109	JAN 23	1224 41.6	41.39S	175.02E	26	2.6	0.2	12	9
1130	JAN 24	0053 29.7	41.62S	174.29E	13	2.2	0.3	10	7
1135	JAN 24	0345 55.7	41.62S	174.65E	28	2.7	0.2	14	10
1139	JAN 24	0444 36.9	41.64S	174.33E	17	2.1	0.2	8	5
1140	JAN 24	0532 30.3	40.93S	174.67E	55	2.6	0.1	9	6
1143	JAN 24	0631 58.5	41.61S	174.66E	29	2.2	0.2	10	8
1146	JAN 24	0758 38.6	40.89S	174.79E	62	3.0	0.1	13	10
1152	JAN 24	0934 18.9	41.61S	174.30E	10	3.1	0.2	22	16
1156	JAN 24	1021 27.5	40.98S	174.59E	61	2.2	0.1	10	7
1157	JAN 24	1031 17.8	40.74S	174.90E	23	2.2	0.3	10	6
1179	JAN 24	1614 34.0	40.56S	174.92E	5R	3.0	0.2	16	13
1200	JAN 25	0013 1.9	41.68S	174.31E	16	2.5	0.1	10	7
1206	JAN 25	0316 32.2	41.13S	173.66E	70	2.9	0.2	18	11
1216	JAN 25	0748 3.7	40.59S	174.45E	35	2.4	0.2	10	7
1219	JAN 25	0923 48.2	40.81S	175.10E	28	2.9	0.2	24	20
1220	JAN 25	0929 54.5	41.33S	173.74E	55	3.0	0.2	11	7
1226	JAN 25	1752 2.2	41.66S	174.60E	33	2.3	0.2	8	5
1227	JAN 25	1803 25.1	41.00S	175.56E	29	2.9	0.2	11	8
1232	JAN 25	2311 24.0	40.89S	175.46E	22	2.3	0.2	9	5
1233	JAN 25	2317 51.1	40.89S	175.48E	24	2.0	0.1	10	6
1239	JAN 26	0129 57.6	41.58S	174.18E	15	2.8	0.1	14	9
1240	JAN 26	0133 33.5	41.40S	174.23E	38	2.7	0.2	12	9
1241	JAN 26	0145 39.9	40.97S	175.36E	25	2.6	0.2	13	8
1248	JAN 26	0501 43.6	41.77S	174.50E	32	2.4	0.1	11	7
1253	JAN 26	0647 58.1	41.03S	173.76E	59	2.6	0.2	10	6
1256	JAN 26	0858 31.6	40.64S	175.11E	28	2.7	0.2	19	15
1269	JAN 26	1602 34.5	41.61S	174.26E	14	2.6	0.2	13	9
1286	JAN 27	0834 11.9	41.82S	174.46E	25	2.5	0.1	8	7
1288	JAN 27	1002 29.0	41.35S	174.32E	37	2.4	0.1	12	7
1302	JAN 27	1802 39.0	41.34S	175.27E	22	2.4	0.1	10	7
1303	JAN 27	1914 45.3	40.79S	174.57E	78	2.4	0.2	8	5
1326	JAN 28	0402 1.8	40.89S	175.47E	22	2.2	0.1	10	8
1328	JAN 28	0508 21.3	40.61S	174.57E	12R	2.6	0.3	15	12
1332	JAN 28	0937 23.1	40.91S	175.17E	27	2.7	0.2	15	10
1352	JAN 28	1445 55.4	41.01S	175.44E	28	2.1	0.1	12	7
1354	JAN 28	1533 30.6	41.26S	175.35E	23	3.2	0.1	27	23
1356	JAN 28	1632 47.9	41.27S	175.35E	23	2.9	0.2	21	15

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
1357	JAN 28	1634 47.5	41.26S	175.35E	20	2.2	0.1	11	8
1373	JAN 28	2153 33.9	41.56S	174.37E	12	2.4	0.3	13	10
1374	JAN 28	2154 43.0	41.79S	173.72E	15	3.1	0.3	20	14
1375	JAN 28	2202 58.0	40.90S	174.43E	69	3.1	0.2	25	19
1377	JAN 28	2336 53.6	41.22S	174.63E	35	2.2	0.2	10	8
1387	JAN 29	0510 22.5	41.69S	174.52E	27	2.3	0.1	8	6
1415	JAN 29	1601 48.1	40.81S	175.76E	28	2.9	0.2	20	14
1456	JAN 30	1129 20.2	41.62S	174.63E	25	2.6	0.2	14	10
1482	JAN 30	1827 51.5	41.02S	175.40E	25	2.3	0.2	11	8
1499	JAN 31	0107 54.2	41.69S	174.23E	5R	2.3	0.2	9	6
1500	JAN 31	0108 0.7	41.67S	174.20E	5R	2.4	0.2	7	6
1502	JAN 31	0135 7.9	40.78S	174.28E	53	2.8	0.2	13	7
1503	JAN 31	0216 33.7	41.54S	174.37E	24	2.0	0.1	7	4
1513	JAN 31	0637 6.5	41.11S	173.82E	117	2.4	0.2	7	5
1526	JAN 31	1210 6.5	40.93S	174.48E	66	2.1	0.1	8	6
1531	JAN 31	1434 23.3	40.88S	175.79E	24	2.3	0.2	12	6
1540	JAN 31	1953 56.2	41.04S	175.53E	18	2.4	0.3	13	8
1553	FEB 01	0503 44.2	41.71S	173.86E	14	2.8	0.3	18	14
1557	FEB 01	0546 32.9	41.62S	174.43E	17	2.3	0.2	12	9
1560	FEB 01	0753 55.8	41.70S	173.87E	14	3.4	0.2	24	19
1563	FEB 01	0801 7.7	41.70S	173.90E	12	2.8	0.3	26	15
1566	FEB 01	0916 14.7	41.67S	173.92E	13	2.1	0.2	7	5
1626	FEB 01	1826 39.0	41.76S	174.57E	28	2.5	0.3	7	6
1637	FEB 02	0225 50.4	41.58S	174.39E	5R	2.0	0.2	10	7
1640	FEB 02	0355 49.1	41.33S	174.32E	39	2.4	0.1	8	5
1647	FEB 02	0859 35.7	41.60S	173.60E	86	2.6	0.3	18	12
1648	FEB 02	0903 36.0	40.97S	175.62E	14	2.0	0.1	11	7
1657	FEB 02	1155 29.7	41.63S	174.02E	12	2.3	0.2	11	8
1659	FEB 02	1245 18.4	40.89S	175.00E	5R	3.0	0.3	28	22
1663	FEB 02	1352 12.6	41.42S	175.01E	26	2.6	0.1	17	13
1667	FEB 02	1533 10.6	41.71S	173.88E	12	2.4	0.3	13	9
1687	FEB 02	2302 29.8	41.78S	174.51E	32	2.6	0.1	10	7
1694	FEB 03	0257 8.8	40.83S	174.88E	33	2.4	0.3	9	7
1701	FEB 03	0507 6.8	41.68S	174.51E	29	2.4	0.2	15	10
1713	FEB 03	0711 29.1	40.71S	174.02E	65	3.1	0.4	19	13
1714	FEB 03	0740 23.2	41.50S	174.59E	17	2.4	0.2	18	12
1718	FEB 03	0843 57.5	41.70S	174.34E	19	2.1	0.1	5	3
1726	FEB 03	1240 22.1	41.69S	174.51E	31	2.2	0.1	9	7
1728	FEB 03	1256 35.6	40.92S	174.94E	32	2.5	0.1	18	11
1740	FEB 03	1830 8.0	41.04S	175.92E	31	2.2	0.2	9	5
1753	FEB 04	0126 59.1	40.96S	174.71E	65	3.2	0.2	27	18
1755	FEB 04	0258 19.5	41.36S	173.55E	63	2.1	0.0	5	3
1762	FEB 04	0528 36.6	41.37S	175.42E	12	2.1	0.1	9	7
1765	FEB 04	0624 31.4	41.01S	175.36E	25	2.3	0.1	11	8
1768	FEB 04	0824 37.8	41.16S	175.44E	33	2.0	0.2	7	4

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
1770	FEB 04	0900 9.7	41.68S	174.49E	46	2.4	0.2	11	8
1782	FEB 04	1250 58.5	41.62S	174.16E	12R	2.7	0.3	12	8
1790	FEB 04	1615 32.8	41.42S	174.11E	35	2.6	0.1	8	5
1791	FEB 04	1624 29.3	40.56S	175.97E	28	2.6	0.2	19	13
1804	FEB 05	0529 12.5	41.09S	174.53E	37	2.5	0.2	14	10
1808	FEB 05	0729 22.7	41.03S	174.38E	64	3.3	0.2	22	14
1813	FEB 05	0901 45.4	41.11S	175.17E	24	2.5	0.2	10	7
1831	FEB 05	1833 56.8	40.67S	175.58E	29	2.1	0.1	6	3
1840	FEB 06	0146 33.2	40.84S	175.11E	33	2.3	0.2	11	9
1841	FEB 06	0150 59.6	41.19S	175.30E	26	3.2	0.2	19	16
1843	FEB 06	0216 22.9	40.93S	174.97E	32	2.1	0.2	8	6
1856	FEB 06	0854 12.5	41.11S	174.63E	32	2.2	0.1	12	9
1864	FEB 06	1334 59.7	41.18S	173.79E	120	2.3	0.1	7	4
1883	FEB 06	2048 36.2	40.93S	175.46E	23	2.1	0.1	8	6
1903	FEB 07	0925 0.1	41.14S	173.61E	54	2.2	0.2	6	4
1911	FEB 07	1209 54.0	41.69S	174.14E	12R	2.1	0.3	8	6
1912	FEB 07	1250 18.0	40.98S	175.58E	27	2.1	0.3	10	7
1915	FEB 07	1342 51.7	40.53S	174.74E	29	2.7	0.3	18	15
1931	FEB 07	2027 45.3	40.67S	173.93E	97	2.6	0.3	11	7
1953	FEB 08	0741 48.1	41.70S	174.31E	19	2.2	0.4	12	9
1977	FEB 08	1841 25.7	41.14S	174.16E	64	2.3	0.2	10	6
2000	FEB 09	0349 12.7	40.51S	174.32E	44	2.6	0.2	18	13
2013	FEB 09	0918 27.5	40.82S	174.69E	40	2.0	0.1	9	6
2017	FEB 09	1044 9.8	41.29S	174.46E	58	2.2	0.1	8	4
2041	FEB 09	2029 3.4	40.56S	174.95E	22	2.9	0.2	24	20
2042	FEB 09	2030 51.5	40.57S	174.97E	23	2.2	0.3	12	8
2054	FEB 10	0120 39.5	41.70S	174.52E	25	2.9	0.3	16	12
2095	FEB 10	0852 56.3	41.07S	174.58E	56	2.0	0.0	7	6
2108	FEB 10	1253 16.5	40.88S	174.44E	71	2.8	0.2	20	13
2115	FEB 10	1639 39.7	41.36S	174.64E	20	2.4	0.2	13	10
2118	FEB 10	1803 51.7	41.03S	173.89E	60	2.7	0.2	15	9
2135	FEB 11	0100 10.3	41.13S	174.00E	62	3.0	0.2	27	17
2137	FEB 11	0136 7.5	41.71S	174.57E	31	2.3	0.1	9	6
2146	FEB 11	0449 3.7	40.65S	174.52E	40	2.2	0.2	8	6
2151	FEB 11	0620 43.0	40.99S	175.46E	26	2.4	0.1	14	10
2158	FEB 11	0843 48.7	41.68S	174.27E	13	2.4	0.2	18	12
2167	FEB 11	1203 6.0	41.35S	174.39E	16	2.3	0.2	11	6
2187	FEB 11	2017 54.4	41.37S	174.18E	46	3.2	0.2	26	18
2197	FEB 12	0426 25.5	41.08S	175.43E	33	2.2	0.1	11	7
2222	FEB 12	1047 47.6	41.41S	174.58E	27	3.2	0.2	30	21
2229	FEB 12	1413 10.8	41.55S	174.80E	28	2.4	0.1	19	11
2233	FEB 12	1524 43.3	41.14S	173.92E	60	2.1	0.2	9	6
2257	FEB 13	0321 1.4	41.03S	174.77E	30	2.1	0.1	11	7
2262	FEB 13	0512 28.7	40.67S	175.89E	34	3.2	0.3	42	31
2263	FEB 13	0536 23.0	40.98S	174.96E	58	2.7	0.2	19	12

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
2270	FEB 13	0937 15.7	40.96S	175.10E	35	2.3	0.2	14	9
2285	FEB 13	1424 10.0	40.61S	175.88E	31	2.1	0.1	9	6
2288	FEB 13	1501 46.4	41.81S	174.60E	26	2.5	0.1	12	10
2292	FEB 13	1509 5.8	41.81S	174.57E	25	3.4	0.2	23	17
2293	FEB 13	1551 9.3	41.07S	173.91E	59	2.0	0.3	9	6
2294	FEB 13	1555 23.3	40.85S	174.79E	43	2.7	0.2	19	14
2298	FEB 13	1716 54.4	40.57S	173.54E	133	2.9	0.3	22	16
2303	FEB 13	1919 57.8	41.53S	175.23E	14	2.0	0.1	9	7
2311	FEB 13	2149 49.1	41.11S	174.04E	56	3.2	0.2	25	18
2334	FEB 14	1000 13.4	41.96S	173.97E	13	2.5	0.2	13	9
2338	FEB 14	1117 50.6	40.61S	173.83E	85	2.9	0.3	21	14
2346	FEB 14	1330 42.4	41.70S	174.49E	51	2.8	0.2	19	16
2384	FEB 15	0355 11.8	41.09S	174.42E	67	3.2	0.1	23	17
2391	FEB 15	0758 25.0	41.03S	173.75E	65	2.9	0.3	17	11
2398	FEB 15	1046 21.6	41.08S	174.44E	64	2.0	0.1	9	6
2399	FEB 15	1224 41.6	40.80S	175.62E	16	2.1	0.2	7	4
2483	FEB 16	2053 36.7	41.69S	173.85E	9	2.6	0.3	23	15
2489	FEB 16	2332 47.1	40.99S	175.40E	27	2.6	0.2	15	9
2508	FEB 17	0529 7.0	41.95S	174.11E	12R	2.1	0.2	9	6
2509	FEB 17	0537 8.0	41.30S	175.26E	28	2.4	0.1	16	10
2516	FEB 17	0827 44.9	41.58S	174.04E	12	2.4	0.3	19	12
2543	FEB 17	2116 30.4	41.86S	174.53E	21	2.6	0.2	18	11
2565	FEB 18	0553 43.5	41.28S	175.17E	24	2.4	0.1	15	10
2566	FEB 18	0602 3.5	40.66S	173.96E	20	2.4	0.3	9	6
2609	FEB 18	1937 50.9	41.74S	173.83E	18	2.3	0.2	13	9
2639	FEB 19	1223 51.0	41.25S	173.77E	58	2.1	0.2	10	6
2641	FEB 19	1252 22.6	40.86S	174.75E	18	2.6	0.2	13	9
2644	FEB 19	1349 18.0	41.06S	174.90E	29	2.3	0.1	12	8
2659	FEB 19	1917 41.3	41.01S	175.42E	26	2.3	0.1	12	8
2685	FEB 20	0831 37.0	41.30S	173.75E	48	2.6	0.2	19	13
2701	FEB 20	1249 53.3	41.60S	174.47E	19	2.0	0.1	14	9
2710	FEB 20	1559 38.0	41.89S	174.47E	28	2.5	0.3	16	11
2712	FEB 20	1620 46.6	41.03S	175.42E	27	2.3	0.1	13	10
2713	FEB 20	1649 26.6	41.91S	174.46E	24	2.7	0.2	13	10
2718	FEB 20	1952 36.8	40.89S	173.90E	84	2.9	0.2	29	19
2725	FEB 21	0008 5.3	40.90S	175.79E	27	2.5	0.2	12	8
2728	FEB 21	0104 22.4	40.57S	175.86E	30	2.5	0.3	20	13
2731	FEB 21	0230 59.5	41.84S	174.05E	34	2.6	0.1	16	10
2736	FEB 21	0423 33.1	41.08S	175.04E	17	2.1	0.2	10	8
2754	FEB 21	1102 0.8	41.95S	173.85E	12R	2.2	0.2	6	5
2756	FEB 21	1114 54.6	40.90S	174.79E	44	3.0	0.2	33	24
2767	FEB 21	1429 6.7	41.45S	174.33E	27	2.5	0.2	11	8
2771	FEB 21	1747 38.4	41.66S	174.42E	5R	2.7	0.2	22	12
2774	FEB 21	1918 11.8	41.16S	175.08E	5R	2.0	0.1	10	7
2775	FEB 21	1921 11.2	41.65S	174.42E	5R	2.4	0.2	14	9

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
2776	FEB 21	1928 23.9	40.71S	174.14E	74	2.6	0.1	9	6
2779	FEB 21	2038 36.2	41.06S	174.81E	53	2.7	0.2	16	10
2800	FEB 22	0727 32.1	41.39S	174.73E	51	2.5	0.1	7	5
2801	FEB 22	0728 43.7	40.93S	174.93E	31	2.4	0.2	17	11
2834	FEB 22	1606 46.4	41.39S	174.30E	33	2.7	0.2	12	9
2841	FEB 22	1747 35.7	41.66S	174.18E	32	2.5	0.1	9	6
2851	FEB 22	2344 59.5	41.07S	174.46E	53	2.5	0.1	14	9
2857	FEB 23	0408 4.7	41.50S	174.34E	14	2.1	0.2	10	7
2861	FEB 23	0502 6.8	40.57S	174.44E	44	2.9	0.3	24	19
2862	FEB 23	0519 3.5	40.88S	175.38E	45	2.2	0.1	10	7
2868	FEB 23	1105 44.1	41.32S	174.06E	48	2.3	0.1	11	7
2873	FEB 23	1213 58.0	41.22S	174.47E	37	2.6	0.1	18	14
2874	FEB 23	1221 58.6	40.70S	175.52E	29	2.3	0.1	12	8
2878	FEB 23	1252 6.5	40.89S	175.82E	30	2.3	0.1	11	8
2880	FEB 23	1321 16.4	41.67S	174.17E	13	2.6	0.3	15	12
2890	FEB 23	1650 15.6	41.36S	174.84E	31	2.7	0.1	19	14
2915	FEB 24	0014 17.8	40.52S	174.59E	70	3.8	0.2	65	51
2928	FEB 24	0757 45.3	40.53S	174.54E	42	2.1	0.1	8	5
2934	FEB 24	0931 42.6	41.69S	174.23E	12R	2.1	0.3	9	6
2936	FEB 24	1015 46.7	41.77S	174.27E	8	2.1	0.2	10	6
2943	FEB 24	1145 2.2	40.92S	175.67E	21	2.0	0.1	10	6
2965	FEB 24	2134 48.2	40.94S	174.71E	57	2.4	0.1	14	10
3033	FEB 25	0200 26.2	40.95S	175.17E	26	2.8	0.2	21	18
3063	FEB 25	0527 15.1	41.68S	173.87E	12	2.7	0.3	20	14
3070	FEB 25	0640 47.4	41.09S	173.60E	75	2.5	0.1	14	9
3076	FEB 25	0806 13.2	41.51S	174.14E	35	2.2	0.2	17	13
3083	FEB 25	0934 46.2	41.75S	173.87E	34	2.4	0.2	9	6
3098	FEB 25	1406 44.8	40.91S	175.16E	33	2.7	0.2	19	13
3107	FEB 25	1757 57.8	41.81S	174.59E	24	2.8	0.3	17	13
3129	FEB 25	2005 17.9	41.68S	174.54E	23	2.0	0.1	8	6
3143	FEB 25	2300 41.3	41.11S	173.67E	83	2.7	0.2	16	10
3148	FEB 26	0319 11.0	41.25S	175.02E	24	2.0	0.2	11	8
3149	FEB 26	0329 43.0	40.58S	175.34E	62	4.2F	0.3	99	73
3161	FEB 26	0824 35.7	40.99S	174.90E	49	2.9	0.2	22	16
3168	FEB 26	0957 42.8	41.34S	175.92E	34	2.1	0.0	6	4
3193	FEB 26	2138 11.0	41.92S	174.45E	29	2.8	0.2	14	9
3198	FEB 27	0105 8.6	41.62S	174.06E	31	2.4	0.3	13	8
3215	FEB 27	0821 17.8	40.99S	174.30E	67	2.4	0.2	12	8
3216	FEB 27	0849 26.3	41.41S	173.92E	47	2.3	0.2	8	6
3227	FEB 27	1225 28.8	40.81S	175.34E	23	2.3	0.2	20	15
3247	FEB 27	1735 33.4	40.78S	174.66E	5R	2.6	0.4	14	11
3253	FEB 27	1931 53.8	40.96S	175.35E	22	2.0	0.2	12	7
3263	FEB 27	2246 44.5	41.18S	174.25E	69	3.3	0.2	34	24
3285	FEB 28	0805 30.0	41.39S	174.54E	26	2.3	0.1	11	9
3294	FEB 28	1011 3.5	41.62S	173.68E	46	3.0	0.3	29	21

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
3310	FEB 28	1431 15.1	41.78S	174.52E	29	2.5	0.1	12	8
3314	FEB 28	1856 27.3	41.19S	174.97E	22	2.5	0.2	17	13
3317	FEB 28	1936 29.9	41.20S	174.97E	23	2.2	0.1	16	11
3322	FEB 28	2158 54.5	41.20S	174.98E	21	2.0	0.1	9	7
3366	MAR 01	1148 21.3	41.28S	174.53E	34	2.6	0.2	19	13
3373	MAR 01	1410 37.3	41.87S	174.19E	10	2.3	0.3	12	9
3382	MAR 01	1650 47.1	41.01S	175.43E	27	2.3	0.1	12	9
3394	MAR 01	2254 14.8	41.74S	174.50E	35	2.3	0.2	10	6
3440	MAR 02	1139 0.7	40.79S	174.00E	75	2.4	0.2	9	6
3511	MAR 03	0721 49.9	40.57S	174.34E	90	3.8	0.3	51	38
3512	MAR 03	0748 47.5	40.98S	174.33E	63	3.2	0.2	33	24
3534	MAR 03	1341 27.2	41.61S	174.99E	29	2.6	0.1	11	9
3536	MAR 03	1430 23.2	41.07S	174.96E	30	2.1	0.1	12	9
3538	MAR 03	1550 23.1	41.58S	174.67E	30	2.3	0.1	11	8
3558	MAR 03	2337 2.4	41.02S	175.42E	22	2.6	0.1	15	12
3559	MAR 03	2339 58.7	41.01S	175.44E	26	2.2	0.1	13	9
3566	MAR 04	0142 17.1	41.72S	174.26E	5R	2.3	0.2	12	9
3573	MAR 04	0541 46.2	40.84S	174.85E	5	2.1	0.1	9	6
3580	MAR 04	0742 5.9	41.23S	175.20E	25	2.0	0.1	14	8
3599	MAR 04	1357 11.2	41.00S	175.43E	26	2.1	0.1	11	8
3622	MAR 04	2217 49.1	41.09S	173.71E	60	2.9	0.2	20	13
3648	MAR 05	0549 15.1	40.59S	175.73E	41	3.6	0.2	62	46
3652	MAR 05	0655 28.4	40.65S	174.37E	43	2.2	0.2	8	6
3671	MAR 05	1456 45.2	41.03S	175.56E	25	2.3	0.1	12	9
3697	MAR 06	0205 12.8	41.10S	174.77E	52	2.3	0.1	14	11
3702	MAR 06	0524 23.1	41.29S	175.01E	26	2.2	0.1	11	8
3703	MAR 06	0614 58.9	41.74S	174.52E	33R	2.3	0.2	14	10
3744	MAR 07	0434 34.4	40.81S	174.01E	69	3.5	0.3	36	27
3767	MAR 07	1150 45.3	41.27S	174.63E	32	2.0	0.1	10	7
3768	MAR 07	1211 36.8	41.05S	174.57E	56	2.1	0.1	14	10
3776	MAR 07	1424 22.9	40.77S	174.80E	14	2.5	0.3	23	18
3781	MAR 07	1547 2.6	40.63S	175.00E	32	2.0	0.2	11	8
3798	MAR 08	0032 24.3	40.95S	175.51E	25	2.1	0.1	11	7
3802	MAR 08	0127 52.5	40.87S	175.11E	31	2.3	0.1	10	8
3804	MAR 08	0208 7.6	41.76S	174.26E	10	3.1	0.3	26	20
3805	MAR 08	0211 14.4	41.76S	174.25E	10	2.3	0.3	18	13
3808	MAR 08	0301 14.3	41.19S	175.14E	5R	2.5	0.3	17	12
3810	MAR 08	0435 1.4	40.64S	174.32E	63	2.7	0.2	18	11
3813	MAR 08	0512 8.1	41.18S	175.14E	5	2.6	0.2	21	15
3819	MAR 08	0641 39.5	41.14S	175.05E	23	2.8	0.2	21	16
3822	MAR 08	0739 53.7	41.49S	173.83E	44	2.2	0.1	14	9
3857	MAR 08	1809 33.1	40.85S	173.66E	79	2.6	0.2	16	11
3864	MAR 08	2008 7.2	40.69S	174.68E	75	2.4	0.1	11	8
3882	MAR 09	0214 18.9	41.41S	174.23E	32	2.5	0.2	14	10
3887	MAR 09	0409 12.3	41.13S	173.97E	56	2.5	0.1	9	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
3888	MAR 09	0410 6.4	40.65S	173.73E	93	2.2	0.3	10	7
3894	MAR 09	0743 31.1	40.81S	175.26E	28	2.7	0.2	20	16
3902	MAR 09	1107 34.4	40.93S	174.50E	48	2.7	0.1	17	13
3906	MAR 09	1431 18.9	41.55S	174.78E	31	2.8	0.2	17	12
3910	MAR 09	1539 55.8	40.66S	174.80E	35	2.8	0.3	17	12
3914	MAR 09	1724 34.6	40.92S	175.73E	28	2.2	0.2	9	6
3944	MAR 10	0716 45.4	41.29S	175.28E	27	2.2	0.1	13	9
3991	MAR 11	0314 22.0	41.71S	174.25E	5R	2.5	0.3	18	12
3992	MAR 11	0359 40.5	40.59S	174.67E	28	2.4	0.1	10	8
4004	MAR 11	1014 14.0	41.09S	175.76E	27	2.5	0.2	14	9
4009	MAR 11	1259 53.9	41.22S	175.23E	14	2.0	0.1	12	8
4021	MAR 11	1712 12.2	41.35S	174.32E	37	2.3	0.1	12	7
4029	MAR 11	1940 12.0	41.11S	174.31E	60	2.1	0.1	9	6
4032	MAR 11	2152 22.1	41.49S	174.70E	28	2.5	0.2	16	13
4041	MAR 12	0120 7.3	41.00S	175.43E	26	2.2	0.1	13	8
4053	MAR 12	0859 15.3	40.67S	174.16E	80	2.8	0.2	16	12
4056	MAR 12	1100 46.4	40.63S	173.61E	151	2.7	0.2	12	11
4078	MAR 13	0008 51.3	40.90S	175.78E	28	2.5	0.2	14	10
4079	MAR 13	0010 41.9	40.88S	175.83E	29	2.3	0.2	9	8
4088	MAR 13	0812 14.9	41.08S	173.55E	90	3.4	0.3	21	16
4101	MAR 13	1436 53.5	40.72S	174.44E	74	2.7	0.2	11	6
4102	MAR 13	1640 37.7	40.54S	174.03E	69	3.0	0.2	15	11
4108	MAR 13	1949 34.3	40.70S	174.57E	67	3.1	0.2	22	17
4112	MAR 13	2129 32.8	40.87S	175.70E	30	3.1	0.2	19	13
4114	MAR 13	2157 44.5	40.66S	175.94E	27	2.8	0.3	21	15
4131	MAR 14	0443 54.5	41.73S	174.30E	5R	2.2	0.3	9	8
4133	MAR 14	0544 52.5	40.98S	175.74E	26	2.7	0.1	16	11
4147	MAR 14	1404 0.3	40.54S	175.16E	33	2.4	0.2	15	10
4163	MAR 14	2100 27.4	41.48S	173.63E	56	2.6	0.2	19	13
4164	MAR 14	2127 40.3	41.13S	174.65E	33	2.5	0.1	20	12
4208	MAR 15	1703 28.2	41.09S	175.03E	7	2.9F	0.2	35	29
4213	MAR 15	1843 28.8	41.55S	175.52E	12	3.2	0.2	20	13
4214	MAR 15	1847 40.8	41.53S	175.49E	10	2.4	0.1	14	10
4223	MAR 15	2124 7.0	41.29S	175.24E	27	2.6	0.1	15	10
4229	MAR 15	2309 24.6	40.61S	174.56E	77	2.7	0.2	17	12
4234	MAR 16	0214 34.7	40.69S	173.92E	77	2.4	0.2	12	8
4235	MAR 16	0322 53.4	40.89S	175.83E	30	2.4	0.2	12	8
4242	MAR 16	0631 57.2	41.01S	174.84E	53	2.4	0.1	13	9
4243	MAR 16	0640 13.1	40.52S	174.59E	30	2.3	0.1	8	5
4244	MAR 16	0710 8.4	40.67S	174.69E	41	2.2	0.1	11	7
4245	MAR 16	0746 5.0	41.57S	173.62E	47	2.6	0.1	8	5
4250	MAR 16	0933 20.9	40.76S	175.40E	36	2.5	0.1	13	10
4252	MAR 16	0955 35.4	41.69S	174.58E	32	2.3	0.2	11	7
4292	MAR 16	2300 23.2	40.87S	175.10E	28	3.0	0.3	28	24
4299	MAR 17	0035 5.9	40.87S	175.10E	30	2.0	0.2	12	8

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
4308	MAR 17	0409 8.0	41.71S	174.27E	15	2.2	0.1	11	8
4315	MAR 17	0557 44.8	40.85S	175.09E	32	2.2	0.1	11	8
4316	MAR 17	0558 57.7	41.18S	174.76E	31	2.5	0.1	18	14
4317	MAR 17	0642 20.5	41.35S	175.13E	30	2.5	0.1	18	14
4330	MAR 17	1017 39.5	41.48S	174.59E	14	2.2	0.2	16	13
4336	MAR 17	1237 19.3	40.69S	174.71E	14	2.3	0.4	18	11
4339	MAR 17	1330 48.6	41.57S	174.53E	53	2.1	0.1	9	7
4342	MAR 17	1411 3.2	41.70S	174.27E	41	2.0	0.1	8	6
4346	MAR 17	1641 39.1	41.69S	174.54E	30	2.7	0.2	21	16
4350	MAR 17	1708 16.2	40.59S	175.70E	32	2.6	0.3	24	17
4354	MAR 17	1812 42.2	41.43S	173.61E	55	2.2	0.2	8	5
4356	MAR 17	1855 20.5	41.52S	174.42E	27	2.1	0.1	13	8
4361	MAR 17	2124 31.3	41.62S	174.20E	5R	2.4	0.3	23	17
4362	MAR 17	2141 50.3	41.62S	174.18E	5R	2.8	0.3	25	19
4363	MAR 17	2143 1.4	41.64S	174.20E	5R	2.0	0.2	9	6
4364	MAR 17	2153 19.4	41.64S	174.20E	5R	2.1	0.2	10	7
4365	MAR 17	2219 3.4	41.64S	174.19E	5R	2.0	0.2	13	8
4369	MAR 17	2344 58.2	41.45S	174.97E	25	2.1	0.1	17	10
4370	MAR 18	0010 30.4	40.87S	175.10E	26	2.8	0.2	25	21
4381	MAR 18	0437 50.5	41.01S	175.43E	27	2.0	0.1	12	9
4408	MAR 18	1418 15.3	41.36S	174.51E	51	2.8	0.2	26	17
4409	MAR 18	1455 25.5	41.74S	173.93E	43	2.0	0.1	10	6
4410	MAR 18	1459 46.8	40.98S	174.79E	32	2.0	0.1	15	9
4414	MAR 18	1731 1.0	41.26S	175.31E	26	2.1	0.1	12	8
4415	MAR 18	1739 54.0	40.91S	174.67E	60	2.1	0.1	10	7
4420	MAR 18	2002 21.7	41.54S	175.52E	12	2.5	0.1	16	11
4421	MAR 18	2157 49.2	41.29S	175.00E	26	2.3	0.1	9	6
4455	MAR 19	1508 41.1	40.51S	174.31E	85	2.6	0.2	15	11
4458	MAR 19	1633 13.4	41.24S	173.96E	51	2.0	0.2	8	5
4461	MAR 19	1824 42.8	41.63S	174.19E	5R	2.1	0.4	12	8
4465	MAR 19	1949 30.8	41.59S	173.98E	5R	2.1	0.3	13	8
4467	MAR 19	1959 37.2	41.55S	174.41E	16	2.2	0.1	15	11
4468	MAR 19	2004 0.3	41.52S	173.71E	52	2.5	0.2	14	9
4490	MAR 20	1013 18.5	41.70S	174.44E	50	2.5	0.2	14	12
4497	MAR 20	1400 40.0	41.73S	173.72E	43	3.2	0.3	31	21
4499	MAR 20	1548 14.1	41.44S	175.28E	16	2.2	0.1	11	8
4502	MAR 20	1719 56.5	40.58S	175.78E	29	2.8	0.3	35	26
4504	MAR 20	1833 28.8	40.99S	175.96E	12R	2.2	0.3	8	6
4505	MAR 20	1845 20.4	41.58S	174.01E	16	2.4	0.2	12	7
4506	MAR 20	2036 14.5	41.68S	174.59E	30	2.3	0.1	11	9
4507	MAR 20	2054 17.2	40.70S	175.95E	30	2.2	0.1	5	4
4509	MAR 20	2156 23.7	41.64S	174.14E	9	2.2	0.1	12	9
4510	MAR 20	2230 43.0	41.74S	174.25E	8	2.3	0.2	13	9
4513	MAR 20	2241 2.0	41.76S	174.26E	8	2.1	0.1	11	7
4515	MAR 20	2309 41.5	41.28S	174.85E	26	2.2	0.1	11	9

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
4516	MAR 21	0008 11.4	41.58S	174.31E	26	2.5	0.2	21	16
4519	MAR 21	0053 20.7	41.52S	175.18E	26	2.3	0.1	12	8
4525	MAR 21	0522 32.2	40.63S	175.87E	18	2.1	0.1	7	5
4531	MAR 21	0927 45.4	41.26S	175.18E	24	2.1	0.1	12	9
4534	MAR 21	0957 27.0	40.93S	173.82E	72	3.1	0.3	19	12
4535	MAR 21	1022 27.5	41.90S	174.07E	12R	2.4	0.2	13	9
4537	MAR 21	1033 21.7	40.94S	175.41E	24	2.2	0.2	11	8
4542	MAR 21	1131 24.0	41.14S	175.15E	28	2.3	0.1	16	11
4549	MAR 21	1321 46.1	41.01S	175.42E	27	2.6	0.1	17	10
4550	MAR 21	1436 17.8	41.36S	174.45E	31	2.3	0.2	19	14
4556	MAR 21	1741 53.3	40.82S	174.94E	19	2.1	0.3	14	10
4557	MAR 21	1742 13.8	41.69S	173.89E	12	2.4	0.2	20	13
4558	MAR 21	1750 13.7	40.64S	174.33E	46	2.1	0.2	8	6
4559	MAR 21	1816 30.3	41.70S	173.88E	11	2.5	0.3	22	15
4560	MAR 21	1915 20.5	41.22S	174.46E	60	3.0	0.1	21	15
4562	MAR 21	1936 49.4	41.70S	173.87E	12	2.1	0.3	12	8
4582	MAR 22	0826 40.7	40.92S	173.78E	63	2.5	0.3	13	8
4589	MAR 22	1228 38.4	41.42S	175.00E	25	2.0	0.1	15	10
4591	MAR 22	1241 3.6	41.02S	174.75E	32	2.4	0.1	17	11
4595	MAR 22	1333 17.7	41.72S	174.65E	25	2.1	0.1	10	6
4599	MAR 22	1610 3.8	40.79S	174.18E	49	2.3	0.3	12	9
4614	MAR 22	2041 9.0	41.29S	174.81E	26	2.1	0.1	11	9
4623	MAR 23	0246 44.5	40.87S	175.08E	34	2.3	0.1	12	9
4632	MAR 23	0459 57.0	40.94S	175.49E	20	2.0	0.2	12	8
4638	MAR 23	0911 5.3	41.03S	174.79E	29	2.8	0.1	23	17
4645	MAR 23	1046 29.9	40.89S	174.17E	72	2.7	0.3	14	9
4662	MAR 23	1500 34.2	41.03S	173.92E	64	2.5	0.2	15	9
4671	MAR 23	1813 29.4	40.69S	174.78E	12R	2.3	0.1	7	4
4674	MAR 23	1842 57.0	40.97S	174.87E	47	2.8	0.1	14	11
4678	MAR 23	2021 53.7	41.10S	174.81E	55	2.1	0.1	11	7
4697	MAR 24	0403 1.6	41.53S	175.00E	24	2.2	0.1	14	8
4700	MAR 24	0419 1.6	41.09S	174.66E	55	2.2	0.1	7	6
4701	MAR 24	0432 24.9	41.66S	174.54E	26	2.2	0.1	12	8
4719	MAR 24	1200 47.3	41.73S	174.24E	7	3.2	0.3	26	19
4747	MAR 25	0059 15.7	41.05S	174.49E	56	2.5	0.1	10	7
4749	MAR 25	0205 9.5	40.82S	175.54E	24	2.7	0.1	13	9
4752	MAR 25	0221 52.4	41.74S	174.66E	24	2.3	0.1	6	5
4766	MAR 25	0822 5.7	41.40S	175.55E	15	2.0	0.1	9	6
4775	MAR 25	1112 45.8	41.68S	174.18E	18	2.2	0.3	12	8
4793	MAR 25	1803 53.1	41.36S	173.56E	79	2.6	0.2	10	6
4797	MAR 25	2150 52.0	41.59S	174.67E	24	2.1	0.2	14	8
4825	MAR 26	1014 12.6	41.02S	174.85E	27	2.3	0.1	11	8
4832	MAR 26	1448 5.3	41.21S	175.61E	17	2.2	0.1	9	8
4833	MAR 26	1603 36.0	41.24S	174.75E	43	3.1	0.1	29	23
4834	MAR 26	1608 36.1	40.75S	174.59E	45	2.3	0.1	9	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
4837	MAR 26	1642 48.8	41.71S	173.87E	12	2.4	0.2	17	13
4848	MAR 27	0144 19.5	40.76S	174.45E	5R	2.1	0.3	9	6
4860	MAR 27	0620 45.6	41.89S	173.90E	23	2.5	0.3	11	8
4863	MAR 27	0945 49.9	40.99S	174.73E	31	2.7	0.1	19	13
4867	MAR 27	1043 12.9	41.29S	175.28E	25	2.1	0.1	9	6
4871	MAR 27	1212 11.0	40.86S	174.73E	16	2.2	0.1	9	6
4899	MAR 27	1702 43.8	41.49S	173.91E	44	2.9	0.2	16	11
4900	MAR 27	1710 9.1	41.63S	174.28E	5R	2.5	0.3	15	11
4901	MAR 27	1736 48.4	41.65S	174.30E	10	2.1	0.1	11	8
4910	MAR 28	0021 15.4	41.51S	174.12E	36	2.5	0.3	15	12
4912	MAR 28	0249 45.8	41.43S	174.76E	25	2.0	0.1	14	9
4913	MAR 28	0347 50.4	40.64S	175.87E	32	2.5	0.2	13	9
4941	MAR 28	2338 25.1	41.34S	174.13E	43	3.1	0.2	19	13
4945	MAR 29	0528 10.9	41.47S	175.53E	26	2.5	0.1	11	8
4959	MAR 29	1244 0.6	41.05S	173.74E	75	2.2	0.1	9	6
4985	MAR 30	0610 5.4	41.55S	174.37E	20	2.1	0.1	14	10
4991	MAR 30	1059 13.1	40.89S	175.84E	28	3.0	0.2	22	15
4993	MAR 30	1234 25.1	41.68S	174.24E	5R	4.3	0.2	25	20
4994	MAR 30	1241 59.0	41.69S	174.27E	5R	2.5	0.3	13	9
4995	MAR 30	1242 42.2	41.69S	174.26E	5R	2.5	0.3	13	9
4999	MAR 30	1458 21.7	41.72S	174.28E	5R	2.1	0.1	7	5
5003	MAR 30	1611 13.8	41.74S	174.30E	5R	2.1	0.3	9	6
5010	MAR 30	1650 19.7	41.70S	174.25E	5R	3.0	0.3	23	18
5012	MAR 30	1656 46.7	41.22S	175.39E	19	2.2	0.1	11	8
5023	MAR 30	1906 10.6	40.87S	175.79E	27	2.1	0.2	11	7
5025	MAR 30	1920 4.8	41.46S	174.46E	17	2.1	0.1	9	6
5030	MAR 30	2043 58.6	41.70S	174.27E	5R	2.1	0.1	9	7
5032	MAR 30	2121 51.7	41.28S	174.27E	37	2.0	0.1	7	5
5044	MAR 31	0501 46.4	40.58S	175.57E	31	2.7	0.2	27	20
5045	MAR 31	0532 56.6	41.70S	174.27E	5R	2.8	0.3	26	18
5050	MAR 31	0717 17.1	41.70S	174.25E	5R	2.0	0.4	8	6
5054	MAR 31	0906 22.1	41.69S	174.26E	5R	2.4	0.3	19	14
5058	MAR 31	1026 17.7	40.81S	175.52E	23	2.1	0.1	12	8
5060	MAR 31	1112 49.2	41.42S	173.53E	87	2.6	0.2	13	9
5062	MAR 31	1153 7.2	41.71S	174.26E	5R	2.2	0.2	14	9
5078	MAR 31	2045 28.4	41.42S	174.94E	26	2.1	0.1	12	8
5086	APR 01	0049 42.6	41.69S	174.52E	30	2.0	0.2	13	10
5091	APR 01	0429 31.2	40.81S	173.99E	72	2.6	0.2	12	9
5115	APR 01	1331 54.7	41.75S	174.50E	33	2.1	0.2	9	7
5118	APR 01	1410 20.3	41.69S	174.13E	12R	2.0	0.2	8	6
5150	APR 02	0215 43.0	40.56S	174.86E	30	2.2	0.1	8	5
5159	APR 02	0740 55.0	40.91S	175.75E	30	2.1	0.2	14	9
5160	APR 02	0746 33.0	41.27S	175.29E	25	2.2	0.1	14	8
5161	APR 02	0810 52.7	40.50S	175.78E	39	3.3	0.3	38	29
5162	APR 02	0814 29.9	41.85S	174.10E	17	2.1	0.1	9	7

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
5163	APR 02	1016 58.9	40.99S	175.62E	28	2.8	0.1	20	12
5166	APR 02	1203 21.6	40.78S	175.26E	30	2.2	0.2	12	9
5173	APR 02	1528 49.4	41.03S	174.51E	33	2.3	0.2	15	10
5179	APR 02	1756 40.8	40.99S	175.36E	19	2.1	0.2	11	8
5181	APR 02	2006 13.8	41.74S	174.28E	5R	2.9	0.2	14	10
5185	APR 02	2246 49.4	41.92S	173.53E	37	2.3	0.2	8	5
5186	APR 02	2254 16.6	41.57S	174.32E	25	2.0	0.1	11	9
5202	APR 03	0654 2.7	41.07S	173.85E	62	2.7	0.2	16	11
5206	APR 03	0859 35.1	41.80S	174.59E	25	2.4	0.1	11	8
5207	APR 03	0901 6.2	41.62S	174.13E	12	2.6	0.1	10	7
5208	APR 03	0909 21.7	41.82S	174.60E	23	2.7	0.2	13	10
5209	APR 03	0957 34.5	41.01S	174.56E	64	2.3	0.0	11	7
5210	APR 03	0957 44.1	41.01S	174.55E	60	2.3	0.2	9	7
5214	APR 03	1204 44.9	40.93S	175.68E	20	2.3	0.1	13	8
5223	APR 03	1805 23.9	40.80S	175.07E	56	2.5	0.1	8	7
5226	APR 03	1851 26.1	41.38S	175.12E	28	2.8	0.2	22	13
5229	APR 03	2000 25.7	40.88S	174.04E	66	2.7	0.2	12	9
5230	APR 03	2010 30.6	41.55S	174.01E	14	2.3	0.3	11	7
5234	APR 03	2210 35.3	41.41S	175.00E	24	2.2	0.2	18	12
5242	APR 04	0450 52.0	41.24S	175.19E	26	2.8	0.1	21	15
5248	APR 04	0631 25.4	41.07S	174.88E	30	2.4	0.2	17	11
5251	APR 04	1009 58.2	40.93S	175.16E	24	2.1	0.1	8	6
5255	APR 04	1256 37.4	41.67S	174.33E	12R	2.3	0.2	12	7
5256	APR 04	1301 34.9	41.62S	174.62E	33	2.7	0.2	15	12
5263	APR 04	1523 21.7	40.73S	174.22E	63	2.4	0.2	9	6
5272	APR 04	2118 37.3	41.69S	174.21E	30	4.1F	0.2	28	22
5273	APR 04	2121 52.3	41.68S	174.21E	31	3.7	0.2	28	21
5274	APR 04	2125 29.8	41.71S	174.23E	30	4.9F	0.2	28	24
5275	APR 04	2127 56.5	41.67S	174.18E	27	3.2	0.3	18	12
5276	APR 04	2128 48.6	41.70S	174.24E	31	3.1	0.3	20	16
5277	APR 04	2130 37.6	41.68S	174.21E	29	2.9	0.3	17	15
5278	APR 04	2130 43.2	41.66S	174.18E	29	3.1	0.2	20	11
5279	APR 04	2132 27.0	41.68S	174.21E	29	3.3	0.3	30	20
5281	APR 04	2141 28.5	41.67S	174.22E	27	2.8	0.3	26	17
5282	APR 04	2148 17.1	41.69S	174.23E	21	2.2	0.2	10	7
5283	APR 04	2214 30.4	41.66S	174.18E	31	2.2	0.1	8	5
5284	APR 04	2228 56.1	41.69S	174.24E	29	4.4F	0.2	32	22
5288	APR 05	0159 0.3	41.65S	174.18E	31	2.6	0.2	12	8
5289	APR 05	0224 58.6	40.58S	174.41E	22	2.8	0.2	25	20
5293	APR 05	0617 23.1	41.67S	174.20E	27	2.8	0.3	28	17
5301	APR 05	0733 23.1	40.55S	174.76E	58	3.7	0.2	50	44
5302	APR 05	0735 5.9	40.57S	174.72E	44	3.0	0.2	33	24
5305	APR 05	0852 40.1	41.73S	174.29E	13	2.4	0.2	14	11
5309	APR 05	1013 7.6	41.66S	174.19E	30	2.5	0.2	20	12
5312	APR 05	1250 24.6	41.68S	174.13E	41	2.2	0.1	6	4

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
5315	APR 05	1431 50.5	41.66S	174.13E	36	2.2	0.1	5	4
5318	APR 05	1505 30.0	40.94S	174.69E	34	2.4	0.1	17	11
5323	APR 05	1732 56.7	41.27S	173.77E	64	2.7	0.2	19	12
5324	APR 05	1910 55.3	41.17S	174.65E	33	2.6	0.1	20	13
5328	APR 05	2147 34.8	40.92S	174.58E	45	3.0	0.1	24	16
5332	APR 05	2214 16.8	41.31S	175.28E	24	2.5	0.2	17	10
5333	APR 05	2245 39.2	41.66S	174.22E	21	2.1	0.1	12	7
5337	APR 06	0136 13.3	41.64S	174.21E	21	2.1	0.2	9	6
5338	APR 06	0209 31.2	41.64S	174.19E	24	2.1	0.1	11	7
5341	APR 06	0327 0.6	41.84S	174.60E	22	3.0	0.2	15	12
5342	APR 06	0405 6.0	41.85S	174.60E	22	3.5	0.2	31	21
5343	APR 06	0422 53.1	41.80S	174.60E	23	2.6	0.2	14	11
5344	APR 06	0427 0.1	41.79S	174.60E	22	2.5	0.2	11	8
5345	APR 06	0516 22.0	41.80S	174.62E	26	2.5	0.1	11	9
5346	APR 06	0634 28.2	41.06S	175.19E	24	2.2	0.1	8	6
5348	APR 06	0724 28.0	41.35S	173.51E	50	2.6	0.3	8	5
5351	APR 06	0811 0.9	41.82S	174.63E	23	2.1	0.3	9	8
5362	APR 06	1050 13.4	41.67S	174.24E	22	2.1	0.3	11	8
5368	APR 06	1215 22.5	41.68S	174.22E	27	2.9	0.3	29	19
5375	APR 06	1621 41.9	41.59S	174.17E	5R	2.4	0.1	11	8
5377	APR 06	1653 55.4	41.67S	174.17E	31	2.2	0.1	10	7
5378	APR 06	1733 37.9	41.79S	174.57E	23	2.6	0.3	16	11
5379	APR 06	1803 17.1	41.06S	174.89E	53	2.3	0.1	14	10
5384	APR 06	2207 3.4	41.67S	174.19E	27	2.7	0.3	22	13
5395	APR 07	0512 41.6	41.84S	174.59E	26	2.9	0.2	16	13
5396	APR 07	0517 8.1	41.68S	174.54E	29	2.6	0.2	12	9
5397	APR 07	0517 33.1	41.82S	174.57E	26	3.1	0.2	23	16
5399	APR 07	0526 46.5	41.83S	174.58E	26	3.2	0.2	24	18
5400	APR 07	0533 49.5	41.80S	174.62E	27	2.5	0.2	11	9
5401	APR 07	0543 41.3	41.31S	174.32E	38	3.1	0.3	31	19
5412	APR 07	1116 11.8	41.25S	174.82E	50	3.4	0.1	43	28
5420	APR 07	1453 9.2	41.15S	174.72E	21	2.1	0.2	10	6
5424	APR 07	1740 58.9	41.53S	174.64E	13	2.4	0.2	20	15
5426	APR 07	1824 46.4	40.75S	174.86E	65	2.1	0.1	7	4
5434	APR 07	2128 10.6	41.28S	175.29E	26	2.0	0.1	11	7
5439	APR 08	0032 0.6	41.57S	175.19E	17	2.1	0.1	17	11
5440	APR 08	0156 51.8	41.97S	173.99E	21	2.6	0.3	18	12
5441	APR 08	0203 54.5	41.97S	174.01E	13	2.6	0.3	18	11
5444	APR 08	0254 5.1	41.03S	175.40E	27	2.2	0.1	12	9
5460	APR 08	0757 11.6	41.67S	174.17E	31	2.1	0.2	13	9
5464	APR 08	0954 25.8	41.56S	173.86E	48	2.8	0.2	22	14
5470	APR 08	1231 16.0	41.68S	174.38E	23	2.3	0.3	15	12
5481	APR 08	1703 9.1	41.66S	174.22E	25	2.6	0.3	18	11
5496	APR 08	2300 48.5	41.07S	174.02E	49	3.0	0.3	17	12
5505	APR 09	0420 54.0	41.72S	174.26E	5R	2.5	0.1	12	8

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
5514	APR 09	0759 18.7	41.61S	174.13E	34	2.3	0.3	10	8
5520	APR 09	1005 3.3	41.70S	174.24E	5R	2.5	0.4	13	9
5528	APR 09	1235 3.8	40.75S	174.31E	63	4.3F	0.3	61	49
5529	APR 09	1238 4.3	40.71S	174.28E	56	3.1	0.3	18	14
5554	APR 10	0602 29.4	41.37S	174.91E	29	2.5	0.1	18	11
5557	APR 10	1035 59.8	41.10S	173.84E	63	2.7	0.3	12	8
5560	APR 10	1105 28.5	40.72S	173.82E	94	3.2	0.3	22	15
5568	APR 10	1713 42.4	41.24S	173.84E	76	2.3	0.2	8	6
5574	APR 10	1835 40.3	40.61S	174.38E	95	2.2	0.2	12	8
5578	APR 10	2216 22.3	40.72S	174.22E	59	2.6	0.3	9	7
5586	APR 11	0051 8.7	41.26S	175.32E	26	2.3	0.1	9	7
5594	APR 11	0402 16.0	41.82S	174.58E	26	3.4	0.2	25	18
5598	APR 11	0435 3.4	41.83S	174.60E	21	2.9	0.2	17	13
5599	APR 11	0438 0.8	41.80S	174.60E	27	2.6	0.3	15	12
5600	APR 11	0509 34.1	41.67S	174.18E	30	2.1	0.1	17	11
5604	APR 11	0608 14.9	41.82S	174.59E	25	2.4	0.2	12	10
5610	APR 11	0758 17.3	41.38S	174.63E	20	2.6	0.2	18	14
5616	APR 11	1200 45.2	41.01S	175.42E	29	2.1	0.1	13	9
5628	APR 11	1656 34.8	41.68S	174.19E	32	2.2	0.2	11	8
5630	APR 11	1728 8.1	40.91S	175.45E	25	2.2	0.2	11	7
5637	APR 11	2117 40.2	41.57S	174.82E	30	2.4	0.1	12	8
5638	APR 11	2218 0.3	40.57S	175.49E	33	3.1	0.2	23	19
5644	APR 12	0108 59.6	41.67S	174.21E	29	2.3	0.2	12	8
5655	APR 12	0840 16.2	41.45S	175.70E	30	2.3	0.1	7	5
5661	APR 12	1030 59.2	41.62S	174.14E	5R	2.8	0.3	22	16
5662	APR 12	1045 45.4	41.81S	174.58E	23	2.2	0.1	10	8
5677	APR 12	1815 6.1	41.74S	173.78E	13	2.7	0.3	22	17
5682	APR 12	1958 33.8	40.85S	174.54E	69	2.3	0.1	9	6
5683	APR 12	2039 47.2	41.29S	175.27E	21	2.0	0.1	9	7
5689	APR 12	2325 30.1	41.16S	174.99E	28	2.1	0.1	7	5
5693	APR 13	0044 38.1	41.72S	174.18E	5R	2.0	0.2	8	5
5696	APR 13	0133 16.8	41.72S	174.13E	15	2.7	0.1	10	7
5701	APR 13	0440 37.0	40.72S	174.46E	48	2.8	0.2	13	8
5708	APR 13	1020 14.6	40.77S	174.04E	67	2.4	0.2	10	7
5711	APR 13	1224 3.2	40.71S	175.01E	34	2.1	0.1	10	8
5712	APR 13	1236 49.0	40.95S	175.14E	28	2.3	0.1	8	6
5719	APR 13	1530 27.1	41.90S	173.97E	15	3.4	0.4	24	19
5720	APR 13	1532 22.4	41.91S	173.94E	12	4.6F	0.2	25	19
5729	APR 13	1952 27.8	40.82S	175.78E	30	2.4	0.2	9	7
5735	APR 14	0126 17.8	40.61S	173.98E	140	2.5	0.3	10	8
5738	APR 14	0229 21.0	41.64S	174.22E	23	2.4	0.3	14	9
5745	APR 14	0351 40.9	41.40S	173.62E	58	3.0	0.2	20	13
5748	APR 14	0657 14.9	40.81S	174.13E	60	2.8	0.2	18	14
5755	APR 14	1146 22.6	41.72S	174.27E	9	2.2	0.2	10	7
5760	APR 14	1430 58.9	41.65S	174.15E	32	2.0	0.1	10	7

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
5769	APR 14	1755 19.9	41.53S	174.97E	24	2.7	0.2	16	13
5777	APR 14	2336 36.3	41.34S	173.81E	56	2.4	0.1	7	4
5785	APR 15	0150 44.6	40.88S	175.79E	27	2.2	0.3	11	9
5800	APR 15	0705 2.1	41.30S	174.83E	27	2.2	0.2	19	12
5806	APR 15	0946 18.5	41.07S	174.31E	69	2.1	0.1	7	5
5807	APR 15	1010 38.2	41.89S	173.93E	12	2.8	0.2	19	14
5810	APR 15	1103 31.8	41.05S	175.91E	31	2.1	0.2	8	6
5828	APR 15	1506 24.2	41.65S	174.12E	39	2.0	0.2	8	6
5829	APR 15	1513 25.2	41.94S	173.85E	12R	2.2	0.2	8	5
5834	APR 15	1848 34.6	41.09S	175.57E	41	2.8	0.2	13	11
5835	APR 15	1853 17.7	41.27S	174.95E	23	2.1	0.1	6	4
5837	APR 15	1912 29.5	41.81S	174.59E	23	2.7	0.3	14	11
5838	APR 15	1918 21.8	41.73S	174.53E	26	2.1	0.3	10	9
5839	APR 15	1947 11.0	41.79S	174.57E	28	2.5	0.2	16	11
5841	APR 15	2017 31.2	41.76S	174.58E	22	2.4	0.1	10	9
5844	APR 15	2138 20.0	40.63S	173.55E	180	3.1	0.2	14	10
5859	APR 16	0323 37.6	40.54S	174.30E	50	2.9	0.3	28	21
5866	APR 16	0642 29.7	40.56S	174.31E	52	2.8	0.2	29	20
5875	APR 16	0859 30.4	41.64S	174.20E	24	2.4	0.2	22	13
5877	APR 16	0927 51.5	41.35S	173.77E	54	2.1	0.2	12	8
5881	APR 16	1033 28.9	41.72S	174.14E	15	2.2	0.4	11	9
5888	APR 16	1333 8.2	41.67S	174.17E	30	2.2	0.1	12	8
5900	APR 16	1635 34.9	41.02S	175.45E	12	2.4	0.1	17	12
5902	APR 16	1638 55.2	41.68S	174.24E	29	2.7	0.3	26	18
5903	APR 16	1658 18.8	41.32S	174.36E	37	2.1	0.2	13	9
5907	APR 16	1815 16.0	41.38S	174.58E	28	2.5	0.2	23	16
5914	APR 16	1919 30.4	41.82S	174.60E	23	2.9	0.2	22	16
5933	APR 17	1017 44.1	41.28S	174.56E	31	2.0	0.1	10	7
5938	APR 17	1259 7.2	41.29S	174.95E	26	2.2	0.1	15	9
5942	APR 17	1345 10.1	41.89S	173.94E	11	2.7	0.2	16	12
5966	APR 17	1930 1.5	41.65S	174.18E	28	2.1	0.2	14	9
5980	APR 18	0253 46.7	40.66S	173.87E	109	3.0	0.2	23	14
5984	APR 18	0414 28.5	41.34S	174.72E	8	2.5	0.2	20	14
5990	APR 18	0812 48.9	41.00S	174.45E	41	2.0	0.1	13	10
6019	APR 18	1507 6.9	41.70S	174.29E	5R	2.1	0.3	5	3
6024	APR 18	1618 32.3	41.66S	174.19E	27	2.0	0.2	12	9
6034	APR 18	1954 22.9	41.72S	174.16E	14	2.3	0.3	16	12
6036	APR 18	2044 33.7	40.82S	174.52E	65	2.5	0.2	12	10
6037	APR 18	2114 21.2	41.72S	174.15E	13	2.5	0.2	14	9
6043	APR 19	0008 36.7	41.55S	174.41E	13	2.1	0.2	15	10
6044	APR 19	0111 55.9	40.95S	174.92E	30	2.6	0.2	20	13
6045	APR 19	0132 46.4	41.05S	174.68E	31	2.1	0.1	13	9
6060	APR 19	0725 4.2	41.05S	174.44E	62	3.4	0.1	44	34
6067	APR 19	0925 17.1	41.14S	173.92E	56	2.3	0.3	14	9
6070	APR 19	0936 41.5	41.17S	173.70E	66	2.4	0.2	13	8

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
6074	APR 19	1121 49.9	41.66S	174.11E	33R	2.0	0.2	6	4
6089	APR 19	1532 57.6	41.77S	174.52E	30	3.0	0.2	23	18
6099	APR 19	1747 23.2	41.00S	173.96E	38	2.4	0.1	11	8
6103	APR 19	1910 12.9	40.91S	174.54E	13	2.0	0.1	6	4
6107	APR 19	2117 34.2	41.01S	175.42E	27	2.2	0.1	10	8
6110	APR 19	2331 41.7	40.81S	175.71E	12R	2.1	0.2	11	9
6128	APR 20	0128 43.6	41.67S	174.22E	15	2.2	0.2	15	9
6135	APR 20	0249 12.5	41.55S	174.77E	26	2.4	0.1	10	8
6141	APR 20	0537 49.4	41.91S	174.01E	14	2.7	0.4	25	17
6143	APR 20	0635 53.0	41.65S	174.59E	31	2.4	0.1	10	9
6181	APR 20	1855 38.9	41.04S	175.46E	28	2.5	0.1	12	7
6187	APR 20	2152 34.4	40.92S	174.71E	62	2.3	0.1	12	9
6188	APR 20	2226 40.9	41.67S	174.17E	31	2.4	0.2	14	9
6197	APR 21	0344 0.5	40.92S	174.94E	40	2.6	0.1	14	11
6198	APR 21	0352 4.9	40.91S	175.01E	41	2.0	0.1	8	6
6210	APR 21	0706 59.8	40.93S	174.73E	34	2.1	0.1	13	8
6213	APR 21	0805 42.3	41.38S	175.66E	27	3.4	0.2	45	34
6232	APR 21	1228 26.3	41.05S	174.13E	69	2.3	0.2	13	8
6233	APR 21	1233 8.0	40.98S	174.97E	61	2.6	0.2	14	10
6234	APR 21	1234 45.3	41.39S	173.85E	49	2.1	0.2	11	8
6246	APR 21	1647 24.0	41.77S	174.59E	29	2.1	0.1	10	8
6250	APR 21	1845 42.7	41.70S	174.24E	30	2.9	0.3	22	17
6281	APR 22	0835 50.0	40.97S	175.98E	23	2.5	0.2	15	10
6288	APR 22	0952 47.1	40.73S	174.47E	41	2.0	0.2	13	9
6290	APR 22	1043 4.2	41.09S	174.86E	30	2.5	0.1	18	12
6291	APR 22	1057 13.7	40.59S	175.08E	31	2.2	0.1	13	11
6295	APR 22	1248 8.6	41.16S	173.65E	86	3.1	0.3	23	16
6307	APR 22	1748 57.9	40.62S	174.58E	45	2.3	0.2	15	11
6334	APR 23	0707 39.6	41.59S	174.70E	30	2.0	0.1	13	8
6335	APR 23	0740 27.7	41.99S	173.88E	5R	2.4	0.2	10	7
6336	APR 23	0746 29.9	40.93S	174.94E	58	2.5	0.1	14	10
6337	APR 23	0755 14.8	41.28S	174.98E	6	2.1	0.1	12	8
6344	APR 23	0842 11.2	41.68S	174.39E	27	2.6	0.3	19	15
6351	APR 23	1158 38.0	41.76S	174.58E	31	2.2	0.2	9	8
6361	APR 23	1604 8.1	41.01S	175.89E	23	2.9	0.2	18	13
6362	APR 23	1610 49.7	41.66S	174.28E	12R	2.0	0.4	5	3
6388	APR 24	0813 11.8	41.67S	174.15E	39	2.1	0.3	8	5
6390	APR 24	0828 24.9	41.69S	174.21E	16	2.4	0.1	8	7
6414	APR 24	1504 13.8	41.08S	174.75E	59	2.7	0.1	16	11
6424	APR 24	1612 7.3	41.66S	174.21E	26	3.0	0.3	27	17
6429	APR 24	1800 34.8	41.74S	173.90E	12R	2.1	0.2	8	6
6432	APR 24	1853 48.8	41.73S	174.27E	9	2.1	0.1	7	4
6460	APR 25	0657 25.4	41.91S	174.00E	14	2.7	0.3	26	18
6474	APR 25	1439 50.5	40.97S	175.63E	28	2.2	0.1	14	9
6479	APR 25	1654 17.1	41.64S	174.16E	33R	2.1	0.1	9	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
6498	APR 25	1913 43.1	41.80S	174.13E	12R	2.6	0.2	10	7
6509	APR 25	2324 32.9	41.20S	174.78E	52	2.9	0.1	21	14
6518	APR 26	0302 52.2	40.87S	174.73E	14	2.4	0.1	10	7
6519	APR 26	0307 3.4	41.58S	174.45E	11	2.6	0.2	22	17
6520	APR 26	0347 58.6	41.67S	174.20E	29	2.7	0.4	22	16
6525	APR 26	0547 7.5	41.48S	174.40E	18	2.1	0.1	14	9
6527	APR 26	0625 46.1	40.55S	175.19E	31	2.4	0.3	19	15
6572	APR 27	0035 22.3	41.14S	174.18E	52	3.1	0.1	19	16
6573	APR 27	0150 7.4	41.94S	174.02E	14	2.8	0.4	19	15
6574	APR 27	0152 31.8	40.66S	174.34E	79	2.6	0.2	16	10
6576	APR 27	0220 56.5	40.85S	175.25E	30	2.3	0.1	12	9
6579	APR 27	0445 6.4	41.27S	175.29E	26	2.0	0.1	11	7
6595	APR 27	1148 5.4	41.68S	174.19E	34	2.3	0.2	8	5
6608	APR 27	1534 10.8	40.82S	173.83E	76	2.5	0.2	11	6
6625	APR 27	1811 59.5	41.64S	173.75E	43	3.0	0.3	22	15
6642	APR 27	2223 51.2	41.08S	174.76E	64	3.4	0.2	51	37
6645	APR 28	0018 43.1	41.02S	174.21E	54	2.1	0.2	11	8
6648	APR 28	0049 34.5	40.57S	175.49E	33	2.3	0.2	23	16
6652	APR 28	0215 2.0	41.01S	175.44E	23	2.1	0.2	11	8
6672	APR 28	1111 36.5	41.41S	175.27E	34	2.1	0.2	9	7
6692	APR 28	1719 50.9	41.17S	174.75E	31	2.2	0.1	14	11
6701	APR 28	2055 24.2	41.31S	173.74E	66	2.9	0.2	22	16
6709	APR 29	0140 40.9	40.91S	173.90E	67	2.4	0.2	15	10
6710	APR 29	0143 32.9	41.24S	175.25E	26	2.2	0.1	15	10
6711	APR 29	0201 9.7	41.02S	173.76E	76	3.4	0.2	33	25
6718	APR 29	0434 25.8	40.55S	174.21E	58	2.5	0.3	17	15
6722	APR 29	0638 56.1	41.70S	174.25E	5R	3.4	0.2	24	20
6724	APR 29	0713 43.5	41.72S	174.27E	7	2.0	0.2	10	8
6735	APR 29	1140 1.3	41.06S	174.17E	47	2.8	0.2	18	12
6740	APR 29	1305 18.2	41.71S	174.23E	5R	2.1	0.3	9	8
6747	APR 29	1503 9.9	41.35S	174.98E	26	2.3	0.0	6	4
6760	APR 29	2215 57.9	41.70S	174.26E	6	3.3	0.2	26	19
6761	APR 29	2217 4.5	41.71S	174.25E	5R	2.4	0.2	12	10
6763	APR 29	2234 5.2	41.71S	174.27E	7	2.3	0.2	19	13
6765	APR 29	2240 15.2	41.70S	174.25E	5R	2.0	0.3	12	8
6767	APR 29	2314 1.6	41.23S	175.39E	18	2.5	0.1	17	11
6771	APR 29	2347 39.2	41.82S	174.65E	5R	2.2	0.4	10	8
6776	APR 30	0125 13.7	41.66S	174.20E	30	2.3	0.2	17	10
6782	APR 30	0207 56.0	40.95S	175.24E	24	2.3	0.2	12	9
6785	APR 30	0541 50.8	41.71S	174.28E	5	2.6	0.2	24	17
6786	APR 30	0542 7.8	41.71S	174.18E	5R	2.3	0.5	14	8
6796	APR 30	0659 21.2	41.17S	174.59E	57	2.6	0.1	13	9
6816	APR 30	1242 59.8	41.23S	175.39E	18	2.2	0.1	16	10
6826	APR 30	1456 41.4	41.09S	174.67E	32	2.6	0.1	21	14
6830	APR 30	1613 41.0	40.64S	174.41E	79	2.6	0.3	27	17

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
6850	APR 30	2350 36.8	41.64S	174.41E	22	2.5	0.3	20	15
6864	MAY 01	0850 57.3	40.99S	173.80E	72	2.6	0.2	14	10
6871	MAY 01	1144 41.5	41.82S	174.31E	25	2.0	0.2	8	6
6888	MAY 01	1739 28.8	41.35S	174.48E	34	2.5	0.2	15	11
6893	MAY 01	1931 37.3	41.08S	174.80E	30	2.6	0.2	17	12
6899	MAY 01	2130 47.4	41.44S	174.25E	33	2.5	0.1	18	13
6900	MAY 01	2300 12.7	41.20S	174.95E	22	2.4	0.1	12	10
6902	MAY 02	0022 7.3	41.69S	174.24E	14	2.2	0.1	9	7
6915	MAY 02	0911 58.6	41.32S	173.71E	115	2.4	0.2	10	7
6933	MAY 02	1629 9.4	41.17S	173.85E	64	2.0	0.1	8	5
6936	MAY 02	1943 59.6	41.10S	175.38E	27	3.1	0.1	17	12
6940	MAY 02	2318 49.0	41.47S	174.26E	12R	2.7	0.3	18	14
6947	MAY 03	0219 51.2	41.55S	174.76E	26	2.0	0.1	10	8
6951	MAY 03	0358 50.9	41.70S	174.27E	5R	2.8	0.2	18	14
6956	MAY 03	0618 42.6	41.89S	173.93E	13	2.5	0.2	13	9
6960	MAY 03	0711 37.8	41.55S	173.69E	55	3.9	0.2	32	24
6991	MAY 03	2337 45.1	41.66S	174.31E	12	2.5	0.2	16	11
6996	MAY 04	0323 20.9	41.82S	174.34E	23	2.3	0.2	16	11
7003	MAY 04	0721 25.4	41.35S	173.61E	66	2.1	0.2	8	6
7005	MAY 04	0850 41.6	41.01S	175.40E	26	2.1	0.1	10	7
7020	MAY 04	1439 31.1	41.22S	175.37E	13	2.6	0.1	15	10
7022	MAY 04	1459 36.6	40.65S	175.96E	58	2.5	0.1	9	6
7040	MAY 05	0132 44.3	41.69S	174.23E	12	2.3	0.2	9	8
7049	MAY 05	0831 33.2	41.30S	175.11E	36	2.4	0.1	12	8
7051	MAY 05	1000 40.9	40.70S	175.48E	29	2.6	0.3	13	10
7052	MAY 05	1036 44.4	41.64S	174.17E	5R	2.4	0.3	16	12
7053	MAY 05	1052 22.9	40.72S	174.39E	64	2.3	0.2	7	4
7068	MAY 05	2020 21.4	40.81S	174.96E	33	2.4	0.1	13	9
7074	MAY 06	0008 49.6	40.61S	174.72E	34	2.2	0.2	8	6
7075	MAY 06	0050 9.9	41.01S	175.32E	11	2.0	0.2	10	8
7077	MAY 06	0137 23.5	41.66S	174.94E	26	2.1	0.1	8	6
7089	MAY 06	0621 17.5	40.50S	174.98E	12R	2.1	0.4	7	6
7094	MAY 06	0711 11.8	41.10S	174.59E	66	2.2	0.1	12	8
7106	MAY 06	1328 0.8	41.30S	173.83E	51	2.5	0.1	12	8
7110	MAY 06	1453 58.7	41.30S	174.99E	26	2.4	0.1	14	10
7114	MAY 06	1522 17.4	41.53S	174.47E	51	2.2	0.1	8	7
7119	MAY 06	1638 36.1	41.19S	174.47E	59	2.1	0.1	10	7
7125	MAY 06	1919 2.8	40.92S	173.59E	86	2.6	0.3	11	8
7131	MAY 06	2125 13.6	41.14S	175.47E	28	2.4	0.1	13	8
7139	MAY 07	0407 0.5	41.81S	173.89E	12	2.5	0.2	11	8
7153	MAY 07	1231 36.2	41.32S	174.48E	58	3.1	0.1	21	17
7155	MAY 07	1233 36.6	40.63S	175.30E	29	2.7	0.2	13	10
7156	MAY 07	1234 8.7	40.75S	174.69E	30	2.6	0.2	10	6
7178	MAY 07	1854 8.7	41.29S	175.07E	46	2.1	0.1	11	8
7183	MAY 07	2123 44.7	41.01S	175.43E	30	2.0	0.1	8	7

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
7234	MAY 09	0108 37.8	41.22S	175.63E	17	2.1	0.1	11	8
7236	MAY 09	0202 2.6	41.02S	175.01E	40	2.8	0.1	19	14
7240	MAY 09	0340 33.6	41.02S	173.77E	87	2.6	0.3	11	8
7247	MAY 09	0850 32.9	41.38S	175.11E	28	2.2	0.1	11	8
7248	MAY 09	0911 17.2	40.94S	174.64E	34	2.1	0.1	9	7
7268	MAY 09	1612 8.7	41.27S	174.55E	55	2.0	0.1	10	8
7272	MAY 09	1656 0.3	40.94S	175.69E	27	2.2	0.1	8	6
7285	MAY 09	2024 40.9	41.21S	174.48E	34	2.3	0.2	16	12
7293	MAY 10	0420 11.6	41.61S	174.49E	47	3.1	0.2	20	14
7302	MAY 10	0708 3.1	41.88S	173.91E	12R	2.3	0.2	8	6
7303	MAY 10	0711 33.8	40.68S	174.37E	60	2.4	0.3	9	5
7314	MAY 10	1043 31.4	41.42S	175.00E	25	2.6	0.1	17	13
7315	MAY 10	1048 15.4	41.44S	175.01E	25	2.1	0.2	10	7
7317	MAY 10	1602 36.9	40.81S	175.11E	33	3.2	0.2	28	21
7335	MAY 11	0259 36.9	41.03S	174.57E	60	2.3	0.1	11	9
7353	MAY 11	1156 3.3	41.42S	175.01E	25	2.1	0.1	12	9
7355	MAY 11	1250 5.0	41.42S	175.00E	23	2.1	0.1	10	7
7357	MAY 11	1335 36.9	41.66S	174.17E	17	2.0	0.1	5	3
7361	MAY 11	1643 57.3	41.57S	175.21E	16	2.4	0.1	13	9
7369	MAY 11	2126 42.9	41.29S	175.01E	29	2.4	0.2	17	12
7377	MAY 12	0016 23.8	41.65S	174.17E	30	2.1	0.1	10	6
7378	MAY 12	0054 49.1	40.66S	174.05E	29	2.3	0.1	8	5
7381	MAY 12	0216 36.6	41.22S	175.03E	21	2.2	0.2	7	5
7407	MAY 12	0942 26.9	40.93S	174.94E	63	2.2	0.1	9	7
7412	MAY 12	1040 2.0	41.05S	174.72E	54	2.1	0.1	13	10
7443	MAY 12	2112 21.3	40.86S	175.72E	31	2.5	0.2	10	7
7448	MAY 12	2306 1.7	41.19S	173.52E	90	3.0	0.2	18	11
7449	MAY 12	2328 32.4	41.37S	173.87E	50	2.8	0.3	17	13
7462	MAY 13	1022 44.8	40.57S	173.53E	103	2.6	0.2	12	9
7464	MAY 13	1109 44.2	41.31S	174.15E	38	2.8	0.3	21	16
7466	MAY 13	1314 11.2	40.75S	175.98E	27	2.4	0.2	13	10
7477	MAY 13	1858 57.5	41.29S	174.31E	60	2.3	0.1	8	6
7481	MAY 13	1919 42.1	41.25S	173.67E	56	2.3	0.2	8	5
7521	MAY 14	1516 50.8	41.01S	175.42E	29	2.5	0.1	15	10
7524	MAY 14	1919 5.8	41.23S	175.40E	12	2.2	0.2	16	9
7526	MAY 14	1937 52.1	41.12S	174.29E	66	2.4	0.1	11	8
7528	MAY 14	2006 38.3	40.96S	175.04E	30	2.2	0.1	10	7
7531	MAY 14	2130 35.3	41.89S	173.99E	12R	2.7	0.3	12	10
7542	MAY 15	0145 6.3	40.64S	174.54E	5R	2.0	0.1	8	7
7543	MAY 15	0148 33.5	41.01S	175.42E	33	2.0	0.3	8	6
7559	MAY 15	1512 23.5	41.98S	174.25E	17	2.4	0.2	8	6
7570	MAY 15	2050 31.1	40.51S	175.82E	41	3.0	0.3	26	18
7598	MAY 16	1616 28.4	41.06S	174.51E	54	2.0	0.1	9	7
7605	MAY 16	1738 20.8	40.91S	174.81E	56	2.1	0.1	9	5
7609	MAY 16	1929 30.7	40.82S	175.31E	27	2.2	0.2	13	10

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
7612	MAY 16	2131 3.7	41.04S	175.45E	29	2.2	0.1	10	7
7622	MAY 17	0155 56.9	41.55S	174.19E	23	2.3	0.2	9	6
7638	MAY 17	0826 56.1	41.67S	174.22E	27	3.1	0.3	28	18
7641	MAY 17	0911 59.0	40.56S	174.08E	72	2.4	0.2	10	6
7648	MAY 17	1237 56.0	41.85S	174.16E	30	2.0	0.1	7	6
7706	MAY 17	1829 27.6	40.71S	175.11E	33	2.2	0.2	6	5
7734	MAY 18	0756 43.8	41.69S	173.93E	12R	2.3	0.2	9	6
7744	MAY 18	1132 13.9	41.15S	173.66E	63	2.5	0.2	16	10
7745	MAY 18	1155 9.0	41.40S	174.60E	31	2.0	0.1	11	9
7755	MAY 18	1731 7.5	40.87S	173.80E	62	2.4	0.2	12	8
7756	MAY 18	1853 36.6	41.10S	174.85E	48	2.6	0.1	17	13
7757	MAY 18	2028 31.9	41.65S	174.18E	29	2.4	0.1	16	10
7764	MAY 18	2136 24.1	41.67S	173.90E	14	3.0	0.3	28	19
7770	MAY 19	0108 54.3	41.66S	174.18E	29	2.2	0.2	12	8
7778	MAY 19	0541 23.8	40.53S	174.20E	84	3.2	0.2	22	17
7815	MAY 20	0127 57.8	40.86S	174.71E	12	2.8	0.2	10	9
7818	MAY 20	0346 51.5	41.72S	174.14E	12	2.7	0.2	11	8
7835	MAY 20	2050 47.6	41.49S	174.64E	53	2.6	0.1	11	9
7837	MAY 20	2252 22.0	41.70S	173.90E	12	2.6	0.3	10	7
7841	MAY 21	0207 12.4	41.65S	174.28E	13	2.7	0.3	17	12
7856	MAY 21	1557 21.4	41.12S	175.34E	24	2.0	0.1	10	7
7859	MAY 21	1732 58.6	41.22S	174.64E	34	2.2	0.1	15	10
7868	MAY 22	0158 11.2	41.72S	173.80E	13	5.0F	0.2	32	25
7869	MAY 22	0207 35.6	41.77S	173.76E	14	2.8	0.3	20	15
7871	MAY 22	0249 58.8	41.77S	173.94E	12R	2.3	0.2	7	5
7872	MAY 22	0255 1.5	41.72S	173.73E	13	2.8	0.2	20	17
7874	MAY 22	0325 30.4	41.74S	173.80E	13	3.2	0.3	27	19
7875	MAY 22	0328 54.9	41.77S	173.72E	14	2.3	0.2	11	8
7876	MAY 22	0358 49.5	41.72S	173.79E	15	2.7	0.2	14	10
7880	MAY 22	0439 44.9	41.73S	173.80E	13	2.3	0.1	8	5
7884	MAY 22	0532 23.0	41.73S	173.80E	14	2.9	0.3	25	18
7885	MAY 22	0540 34.6	41.51S	173.97E	35	2.4	0.3	17	12
7890	MAY 22	0737 15.3	41.73S	173.75E	12	2.5	0.2	19	14
7891	MAY 22	0817 17.9	41.67S	173.84E	12R	2.2	0.2	7	6
7894	MAY 22	0859 30.5	41.75S	173.77E	13	2.4	0.2	14	10
7898	MAY 22	0951 58.5	40.86S	174.86E	41	2.6	0.2	15	10
7901	MAY 22	1123 52.5	40.59S	175.04E	31	2.1	0.2	13	10
7914	MAY 22	1801 18.4	40.58S	175.68E	30	2.6	0.3	12	10
7932	MAY 23	1533 18.1	41.76S	174.21E	5R	2.4	0.2	10	7
7937	MAY 23	1858 1.2	40.88S	175.79E	31	2.7	0.2	9	7
7941	MAY 23	2024 47.4	41.79S	174.52E	31	2.8	0.2	13	9
7942	MAY 24	0015 35.5	41.99S	174.00E	12R	2.7	0.3	11	7
7965	MAY 24	1710 24.6	41.60S	174.65E	30	2.8	0.2	13	11
7980	MAY 24	2215 12.0	41.45S	174.89E	43	2.2	0.1	6	6
7988	MAY 25	0434 26.3	41.56S	174.34E	5R	2.6	0.2	21	15

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
7998	MAY 25	1326 40.2	40.98S	174.07E	61	2.2	0.2	12	8
8009	MAY 25	1830 54.9	41.15S	174.86E	42	2.1	0.1	8	6
8011	MAY 25	1955 17.8	41.01S	174.39E	42	2.3	0.2	10	6
8013	MAY 25	2342 54.0	41.37S	174.65E	21	2.2	0.2	14	10
8017	MAY 26	0229 25.2	40.95S	174.79E	48	2.1	0.1	12	8
8037	MAY 26	1409 10.4	41.71S	173.83E	14	2.5	0.2	11	8
8048	MAY 26	1648 13.9	41.54S	174.35E	5R	2.2	0.2	11	7
8049	MAY 26	1649 41.0	41.56S	174.34E	5R	2.9	0.2	22	17
8050	MAY 26	1725 47.0	40.88S	173.69E	77	2.5	0.1	10	6
8057	MAY 26	2047 11.8	40.76S	174.67E	45	2.3	0.2	13	9
8060	MAY 26	2131 1.0	40.97S	175.99E	29	2.4	0.2	13	10
8071	MAY 27	0541 30.7	40.53S	175.18E	5R	2.4F	0.3	17	14
8076	MAY 27	0738 3.5	40.66S	175.50E	29	2.5	0.2	9	7
8084	MAY 27	1146 37.8	41.11S	174.81E	12R	2.4	0.2	11	8
8089	MAY 27	1247 21.1	41.55S	174.31E	24	2.1	0.1	8	6
8112	MAY 27	2346 37.6	40.66S	174.28E	47	2.6	0.2	8	5
8115	MAY 28	0214 8.8	41.44S	175.92E	29	2.6	0.2	11	8
8125	MAY 28	0513 14.2	40.56S	173.94E	87	2.6	0.3	10	8
8128	MAY 28	0630 44.9	40.60S	175.65E	31	2.7	0.2	23	17
8145	MAY 28	1641 40.5	40.77S	174.25E	57	2.2	0.3	8	5
8146	MAY 28	1642 0.8	40.50S	174.30E	93	2.5	0.1	9	7
8152	MAY 28	2005 28.7	40.58S	174.64E	51	2.9	0.3	16	12
8166	MAY 29	0119 33.0	40.64S	175.54E	28	2.3	0.2	8	6
8172	MAY 29	0236 7.5	41.68S	174.23E	29	2.5	0.3	16	13
8181	MAY 29	0345 7.6	41.98S	174.37E	27	2.7	0.1	11	8
8187	MAY 29	0517 44.2	41.53S	174.18E	31	2.4	0.2	12	8
8204	MAY 29	1355 22.4	40.52S	174.09E	81	2.2	0.1	10	7
8213	MAY 29	1730 5.9	41.74S	173.74E	20	2.7	0.2	13	10
8219	MAY 29	1935 15.4	41.54S	174.32E	25	2.3	0.2	10	7
8226	MAY 30	0051 43.7	41.66S	175.00E	24	2.2	0.1	7	5
8263	MAY 30	2031 30.4	41.79S	174.28E	12	2.2	0.3	8	5
8264	MAY 30	2043 39.4	40.96S	174.66E	66	2.6	0.2	17	13
8266	MAY 30	2123 56.2	41.93S	175.02E	39	2.8	0.1	13	11
8272	MAY 31	0007 34.1	41.07S	174.35E	73	3.5	0.2	48	37
8278	MAY 31	0239 54.3	41.55S	174.21E	32	2.1	0.2	7	5
8284	MAY 31	0909 45.9	40.76S	175.94E	30	3.1	0.3	47	35
8287	MAY 31	0955 13.2	41.27S	173.89E	57	3.0	0.2	28	18
8289	MAY 31	0957 29.8	41.41S	174.09E	14	2.2	0.3	11	7
8326	JUN 01	0153 54.8	40.90S	174.95E	57	2.6	0.1	14	10
8327	JUN 01	0241 55.3	41.22S	175.29E	23	2.2	0.1	9	8
8334	JUN 01	0557 13.1	41.03S	175.42E	27	2.1	0.1	11	8
8338	JUN 01	0724 32.0	41.63S	174.07E	5R	2.0	0.1	7	5
8341	JUN 01	0745 46.7	40.71S	174.20E	77	4.7F	0.2	66	50
8346	JUN 01	0934 24.1	41.01S	175.43E	25	2.0	0.1	9	7
8354	JUN 01	1308 59.3	41.61S	174.00E	40	2.9	0.3	20	13

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
8362	JUN 01	1550 19.5	41.05S	175.87E	30	2.5	0.2	18	13
8364	JUN 01	1601 38.1	41.10S	174.02E	53	2.8	0.2	13	9
8379	JUN 02	0012 58.7	40.84S	174.58E	39	2.5	0.1	13	9
8384	JUN 02	0157 41.8	41.00S	173.93E	52	2.4	0.1	7	4
8434	JUN 03	0347 5.1	40.66S	174.18E	63	2.7	0.2	10	7
8447	JUN 03	0618 2.4	40.69S	175.94E	31	2.4	0.5	12	8
8457	JUN 03	0740 28.6	41.01S	175.41E	27	2.4	0.1	12	9
8471	JUN 03	1143 28.3	41.72S	173.74E	5R	2.6	0.4	18	12
8473	JUN 03	1154 45.7	40.76S	175.68E	24	2.1	0.1	9	7
8486	JUN 03	1657 15.2	41.02S	175.41E	25	2.5	0.1	13	10
8534	JUN 04	1011 12.3	40.52S	174.61E	12R	2.2	0.2	8	5
8562	JUN 04	1949 51.6	41.41S	175.05E	27	2.4	0.1	15	12
8568	JUN 04	2226 11.0	41.01S	174.87E	30	2.1	0.1	10	8
8576	JUN 05	0313 26.3	40.70S	173.60E	137	2.8	0.4	10	9
8578	JUN 05	0523 58.8	41.07S	175.23E	20	2.5	0.1	14	10
8590	JUN 05	0853 5.2	40.73S	174.55E	73	2.8	0.2	14	10
8592	JUN 05	0951 58.8	40.97S	174.00E	61	2.1	0.3	7	5
8594	JUN 05	1025 24.0	40.79S	173.89E	73	2.8	0.1	16	11
8607	JUN 05	1547 19.3	40.83S	173.66E	82	2.5	0.2	8	6
8617	JUN 05	1853 32.5	41.36S	175.06E	26	2.4	0.1	18	12
8622	JUN 06	0102 53.5	41.71S	174.53E	24	2.5	0.3	13	10
8624	JUN 06	0107 41.7	41.72S	174.58E	27	2.3	0.1	7	5
8631	JUN 06	0437 21.3	40.69S	175.31E	31	2.7	0.2	29	21
8639	JUN 06	0705 54.4	41.79S	174.74E	33R	2.4	0.1	8	5
8648	JUN 06	1130 51.5	40.67S	175.74E	22	2.2	0.3	10	7
8679	JUN 06	2110 37.2	40.60S	174.16E	70	2.6	0.2	15	11
8696	JUN 07	0453 45.4	40.91S	174.82E	34	2.3	0.2	9	7
8698	JUN 07	0513 9.6	41.52S	174.60E	23	2.2	0.2	9	6
8724	JUN 07	1232 45.0	41.57S	173.98E	41	3.5	0.2	28	20
8729	JUN 07	1401 33.7	40.73S	174.36E	61	2.3	0.1	8	6
8743	JUN 07	1835 20.3	41.87S	174.69E	26	2.3	0.0	7	6
8752	JUN 08	0031 30.6	41.68S	173.94E	15	2.7	0.1	12	8
8753	JUN 08	0109 15.3	41.67S	173.96E	12R	2.5	0.3	7	5
8757	JUN 08	0218 50.3	41.18S	174.77E	33	2.9	0.2	21	15
8777	JUN 08	0931 40.8	40.56S	175.80E	31	2.3	0.3	13	8
8781	JUN 08	1110 35.2	41.10S	175.49E	21	2.9	0.2	25	17
8782	JUN 08	1112 41.9	41.11S	175.49E	21	2.1	0.1	11	7
8783	JUN 08	1113 0.4	41.10S	175.48E	21	2.6	0.1	13	8
8784	JUN 08	1115 14.3	41.10S	175.49E	22	2.7	0.1	15	9
8791	JUN 08	2100 7.3	41.07S	175.60E	5R	2.2	0.4	7	5
8795	JUN 08	2214 18.7	41.75S	173.75E	14	2.6	0.2	13	9
8799	JUN 09	0534 54.6	40.99S	174.62E	34	2.8	0.1	9	6
8802	JUN 09	0720 57.1	41.68S	174.18E	31	2.6	0.2	9	5
8806	JUN 09	1121 16.2	41.75S	174.16E	10	2.7	0.3	13	9
8810	JUN 09	1228 26.0	41.74S	174.16E	9	2.7	0.2	10	7

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
8829	JUN 10	0112 17.3	41.23S	174.57E	55	2.2	0.1	5	3
8832	JUN 10	0247 26.7	40.65S	173.98E	78	2.5	0.3	9	6
8834	JUN 10	0442 51.7	41.27S	175.33E	26	2.3	0.1	8	6
8837	JUN 10	0626 16.6	41.25S	175.18E	23	2.3	0.1	7	6
8843	JUN 10	1358 32.9	41.61S	174.16E	12R	2.7	0.2	8	6
8847	JUN 10	1530 3.5	41.58S	174.64E	52	2.3	0.1	8	6
8850	JUN 10	1631 4.4	41.53S	175.54E	22	2.6	0.2	10	7
8851	JUN 10	1656 14.9	41.50S	175.53E	20	2.3	0.1	10	7
8853	JUN 10	1818 25.5	41.39S	175.10E	23	2.4	0.1	6	4
8856	JUN 10	1902 39.9	40.95S	175.61E	31	2.6	0.1	11	8
8858	JUN 10	1952 28.3	40.89S	174.76E	12R	2.2	0.3	6	4
8859	JUN 10	2000 35.7	40.91S	174.76E	5R	2.4	0.3	8	5
8860	JUN 10	2044 23.5	40.71S	174.92E	5R	2.7	0.4	24	18
8862	JUN 10	2059 44.2	40.90S	174.75E	5R	2.2	0.1	8	5
8863	JUN 10	2101 18.9	40.90S	174.74E	5R	2.5	0.2	9	6
8870	JUN 11	0237 56.7	41.92S	174.06E	12R	2.5	0.2	11	8
8885	JUN 11	0730 3.7	40.92S	175.17E	27	2.2	0.2	9	7
8906	JUN 11	1725 31.9	41.73S	174.55E	28	2.3	0.2	10	7
8909	JUN 11	1833 16.3	41.00S	175.43E	25	2.3	0.1	11	8
8913	JUN 11	2039 10.7	40.63S	175.72E	33R	2.5	0.2	8	4
8925	JUN 12	0354 36.3	41.32S	173.76E	62	2.5	0.2	8	5
8928	JUN 12	0500 1.7	40.96S	174.63E	58	4.8F	0.2	65	51
8931	JUN 12	0745 52.4	40.90S	175.84E	27	3.1	0.4	27	20
8936	JUN 12	1022 49.8	41.50S	175.53E	21	2.6	0.1	10	7
8938	JUN 12	1055 53.6	40.88S	175.81E	25	2.9	0.3	16	12
8939	JUN 12	1154 5.5	41.02S	174.66E	59	2.7	0.1	15	11
8942	JUN 12	1300 27.8	40.89S	175.81E	27	2.9	0.2	22	16
8943	JUN 12	1327 37.4	41.48S	175.54E	23	2.7	0.2	15	10
8949	JUN 12	1652 54.4	41.72S	174.27E	13	2.2	0.2	7	5
8964	JUN 12	2247 42.7	40.88S	175.80E	26	2.9	0.2	19	14
8970	JUN 13	0241 43.2	41.27S	175.25E	24	2.0	0.1	10	8
8971	JUN 13	0319 44.9	41.35S	174.83E	28	2.9	0.1	22	16
8975	JUN 13	0515 52.5	41.67S	174.20E	24	2.6	0.3	18	12
8977	JUN 13	0615 54.4	41.31S	175.03E	25	2.1	0.0	9	7
8978	JUN 13	0619 24.2	41.59S	173.76E	47	3.0	0.2	22	15
8990	JUN 13	1305 5.8	41.10S	174.46E	35	2.2	0.1	7	5
8999	JUN 13	1729 57.7	41.56S	173.55E	64	3.0	0.3	13	9
9000	JUN 13	1745 35.5	41.44S	174.63E	28	2.4	0.2	12	9
9009	JUN 13	2351 37.1	41.28S	175.29E	26	2.1	0.1	9	7
9016	JUN 14	0400 43.5	41.73S	173.79E	13	3.4	0.4	29	21
9035	JUN 14	1152 15.8	40.59S	174.22E	70	3.6	0.3	50	37
9044	JUN 14	1601 0.4	41.77S	174.89E	31	2.7	0.2	15	11
9052	JUN 14	1816 21.5	40.73S	173.95E	67	2.5	0.1	10	7
9070	JUN 15	0431 45.4	41.72S	174.30E	15	2.2	0.2	7	4
9088	JUN 15	1315 27.9	41.27S	175.25E	29	3.0	0.1	19	13

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
9094	JUN 15	1549 5.8	41.82S	174.11E	10	2.2	0.2	11	8
9097	JUN 15	1729 26.7	41.75S	173.76E	16	3.1	0.3	24	18
9099	JUN 15	2011 49.2	40.56S	174.27E	84	3.1	0.2	20	14
9101	JUN 15	2257 8.3	41.57S	174.35E	14	2.5	0.2	14	11
9104	JUN 16	0135 41.1	41.64S	174.58E	24	2.2	0.1	6	5
9111	JUN 16	0725 18.6	41.23S	173.72E	86	2.4	0.2	10	7
9112	JUN 16	0732 3.7	41.35S	174.79E	29	2.0	0.1	11	8
9115	JUN 16	0855 51.9	41.66S	174.52E	26	2.1	0.2	10	6
9117	JUN 16	0934 8.9	40.72S	175.42E	28	2.5	0.3	20	15
9130	JUN 16	1303 9.9	41.58S	173.87E	43	2.3	0.2	8	5
9131	JUN 16	1311 25.4	41.29S	175.30E	25	2.0	0.1	11	8
9133	JUN 16	1411 12.5	41.71S	174.22E	29	3.0	0.3	24	18
9141	JUN 16	1849 0.9	41.08S	174.69E	55	2.9	0.1	14	10
9148	JUN 16	2220 34.4	40.89S	174.65E	61	2.0	0.1	6	5
9165	JUN 17	0734 24.5	41.12S	174.84E	58	2.2	0.1	9	6
9174	JUN 17	1016 50.8	41.22S	174.51E	57	2.5	0.1	13	10
9178	JUN 17	1244 22.3	40.82S	174.53E	58	2.5	0.1	9	6
9182	JUN 17	1359 5.3	40.87S	174.73E	39	2.1	0.1	8	6
9183	JUN 17	1411 26.4	41.72S	174.55E	33R	2.6	0.1	7	4
9186	JUN 17	1656 50.8	41.65S	174.19E	26	2.7	0.2	19	12
9188	JUN 17	1659 55.1	41.59S	174.42E	24	2.2	0.1	11	8
9191	JUN 17	1942 37.4	41.88S	174.13E	35	3.6	0.2	27	20
9192	JUN 17	1942 54.1	41.81S	174.09E	29	3.5	0.1	13	8
9193	JUN 17	2045 29.0	41.26S	175.25E	23	2.4	0.2	14	9
9194	JUN 17	2057 13.2	41.27S	175.24E	23	2.0	0.1	9	7
9198	JUN 17	2223 2.3	41.38S	174.35E	32	2.1	0.2	8	5
9209	JUN 18	0550 19.7	40.85S	175.70E	23	2.2	0.2	8	7
9212	JUN 18	0854 1.9	41.52S	174.44E	26	2.3	0.2	6	4
9213	JUN 18	0914 57.6	40.98S	174.41E	52	2.5	0.2	18	12
9228	JUN 18	1652 52.0	40.56S	174.37E	56	2.2	0.2	10	7
9229	JUN 18	1708 9.5	41.87S	174.01E	28	2.5	0.2	17	12
9236	JUN 18	2109 44.6	41.30S	175.72E	24	2.4	0.2	11	8
9240	JUN 19	0238 53.7	41.39S	174.74E	29	2.1	0.1	13	10
9242	JUN 19	0345 55.4	41.27S	173.97E	52	2.6	0.1	11	7
9253	JUN 19	0821 53.1	40.87S	175.31E	24	2.7	0.2	23	17
9254	JUN 19	0822 24.7	40.85S	175.31E	34	2.1	0.2	12	9
9263	JUN 19	1121 13.4	41.14S	174.57E	38	2.3	0.1	13	10
9267	JUN 19	1150 30.7	40.90S	175.42E	31	3.4	0.2	20	14
9281	JUN 19	1742 38.4	41.71S	174.59E	42	2.5	0.2	10	7
9292	JUN 20	0050 13.3	41.68S	174.15E	11	2.3	0.3	9	6
9318	JUN 20	1504 58.6	40.97S	175.14E	30	2.1	0.1	9	7
9321	JUN 20	1533 39.4	41.35S	174.34E	35	2.0	0.2	9	6
9325	JUN 20	1720 43.2	40.74S	174.41E	84	2.8	0.2	20	12
9330	JUN 20	1846 43.7	41.53S	174.03E	16	2.7	0.3	20	13
9337	JUN 20	2305 19.9	41.83S	173.68E	43	2.9	0.3	21	15

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
9353	JUN 21	0730 19.1	41.37S	174.65E	30	2.0	0.2	12	8
9355	JUN 21	0857 48.2	40.56S	174.28E	94	3.4	0.2	23	17
9358	JUN 21	1044 18.5	40.64S	174.55E	72	2.7	0.2	12	8
9369	JUN 21	1422 24.5	41.46S	174.33E	11	2.8	0.3	20	16
9374	JUN 21	2101 25.6	41.35S	175.14E	26	2.3	0.1	10	7
9384	JUN 22	0402 30.5	41.55S	174.13E	32	3.3	0.3	25	20
9385	JUN 22	0407 21.5	41.54S	174.13E	29	2.7	0.3	16	12
9396	JUN 22	1142 55.9	40.73S	174.79E	5R	2.0	0.2	8	5
9401	JUN 22	1243 7.6	41.47S	173.98E	38	2.8	0.3	20	14
9406	JUN 22	1526 12.1	41.74S	174.02E	33	3.0	0.3	20	16
9413	JUN 22	1853 31.0	41.01S	175.43E	32	2.2	0.2	11	8
9430	JUN 23	0922 10.1	40.61S	174.15E	91	3.2	0.3	29	22
9435	JUN 23	1232 33.6	41.71S	173.98E	12R	2.0	0.2	4	3
9436	JUN 23	1232 46.1	41.68S	173.95E	12	2.4	0.2	10	7
9441	JUN 23	1438 13.5	41.73S	173.71E	15	2.5	0.3	17	12
9457	JUN 23	1918 37.5	40.95S	175.17E	31	2.1	0.1	10	8
9479	JUN 24	1017 52.2	41.06S	175.31E	26	2.1	0.2	9	7
9486	JUN 24	1551 0.8	40.52S	173.76E	102	2.5	0.4	11	8
9488	JUN 24	1806 2.0	41.09S	174.72E	58	3.0	0.2	19	15
9489	JUN 24	1839 1.8	40.55S	174.46E	45	2.2	0.2	8	5
9491	JUN 24	1907 58.4	41.04S	175.29E	33	2.2	0.2	11	9
9512	JUN 25	1046 24.7	41.41S	175.00E	25	2.5	0.1	21	12
9518	JUN 25	1441 28.9	40.87S	174.73E	15	2.2	0.1	9	6
9535	JUN 26	0136 23.0	41.75S	174.28E	12R	2.3	0.2	9	7
9540	JUN 26	0514 33.7	40.78S	175.06E	39	2.3	0.1	11	8
9548	JUN 26	1319 45.6	40.78S	174.77E	5R	2.1	0.3	9	7
9550	JUN 26	1510 44.8	40.78S	174.78E	5R	2.2	0.2	7	6
9556	JUN 26	1844 14.9	41.43S	175.30E	16	2.3	0.1	13	9
9558	JUN 26	2006 27.0	40.92S	174.72E	33	2.4	0.1	12	9
9566	JUN 27	0643 6.4	41.26S	175.25E	38	2.2	0.3	10	8
9579	JUN 27	1432 54.3	41.60S	174.24E	14	2.2	0.1	11	8
9585	JUN 27	1830 32.9	40.92S	175.17E	29	2.3	0.1	7	6
9587	JUN 27	1949 16.7	41.68S	173.89E	12	2.6	0.2	9	7
9597	JUN 28	0021 35.8	41.21S	175.40E	30	2.7	0.1	12	8
9606	JUN 28	0628 28.5	41.26S	174.72E	34	2.1	0.1	10	7
9607	JUN 28	0652 35.0	41.06S	175.01E	31	2.8	0.1	16	11
9608	JUN 28	0743 3.1	40.68S	174.13E	94	2.6	0.2	12	9
9617	JUN 28	1616 6.8	41.77S	174.43E	13	2.2	0.1	8	5
9623	JUN 28	2241 52.4	40.74S	174.77E	5R	2.7	0.3	15	10
9624	JUN 28	2251 19.3	40.84S	175.62E	24	2.5	0.2	11	8
9631	JUN 29	0706 15.6	41.61S	173.76E	44	2.6	0.2	17	11
9632	JUN 29	0714 37.3	40.81S	174.85E	5R	2.0	0.3	6	4
9633	JUN 29	0800 40.7	40.95S	175.54E	29	3.0	0.1	17	12
9634	JUN 29	0911 18.2	40.99S	175.33E	24	2.1	0.2	12	9
9645	JUN 29	2000 40.9	40.95S	175.50E	21	2.6	0.2	15	10

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
9649	JUN 29	2259 18.2	40.56S	173.86E	104	2.6	0.2	13	9
9667	JUN 30	0948 29.7	40.84S	174.61E	53	3.2	0.1	30	21
9686	JUN 30	2018 6.3	40.95S	175.47E	14	2.0	0.2	11	8
9687	JUN 30	2119 44.4	40.69S	175.50E	28	3.1	0.3	20	14
9689	JUL 01	0001 8.3	41.62S	174.43E	15	2.3	0.2	13	10
9693	JUL 01	0628 37.3	40.60S	174.55E	20	2.2	0.2	10	7
9694	JUL 01	0649 17.3	41.48S	173.56E	91	2.6	0.2	7	6
9706	JUL 01	1147 1.2	41.40S	173.82E	51	2.1	0.0	7	4
9709	JUL 01	1427 21.3	41.41S	175.02E	24	2.0	0.1	13	10
9710	JUL 01	1436 4.7	41.52S	174.16E	34	2.4	0.2	14	11
9731	JUL 02	0452 55.3	41.63S	174.38E	23	2.3	0.2	14	10
9736	JUL 02	0751 55.7	40.73S	175.04E	35	2.5	0.3	12	8
9739	JUL 02	0900 58.2	40.90S	174.56E	58	2.2	0.1	11	8
9753	JUL 02	2036 47.1	41.23S	174.38E	33	2.4	0.2	12	8
9756	JUL 02	2110 17.4	40.81S	174.79E	5R	2.2	0.2	11	9
9759	JUL 03	0028 6.7	40.84S	174.86E	5R	2.1	0.3	9	6
9760	JUL 03	0314 4.9	41.01S	174.07E	56	3.4	0.3	26	18
9762	JUL 03	0430 14.6	40.58S	175.18E	32	2.3	0.2	15	11
9771	JUL 03	0844 52.1	41.48S	174.59E	13	2.6	0.2	17	14
9776	JUL 03	1149 45.0	41.43S	175.32E	15	2.0	0.1	9	7
9798	JUL 04	0117 39.7	41.75S	174.28E	16	2.4	0.1	12	9
9799	JUL 04	0123 23.3	41.71S	174.31E	12R	2.2	0.2	12	9
9803	JUL 04	0242 34.3	41.71S	174.35E	9	2.5	0.3	16	12
9804	JUL 04	0255 57.7	40.81S	174.13E	63	2.6	0.2	15	10
9815	JUL 04	0729 56.2	41.68S	174.35E	12R	2.5	0.3	16	12
9817	JUL 04	0834 1.8	40.70S	175.44E	27	3.1	0.3	17	12
9821	JUL 04	1110 28.1	41.14S	174.82E	27	2.1	0.1	11	8
9829	JUL 04	1454 35.9	41.63S	173.70E	52	3.4	0.3	19	16
9840	JUL 05	0123 47.8	41.08S	175.48E	28	3.0	0.1	16	12
9849	JUL 05	1205 55.3	40.63S	174.40E	55	2.8	0.2	12	8
9855	JUL 06	0306 32.3	41.62S	174.44E	12R	2.4	0.2	11	8
9858	JUL 06	0540 37.7	41.62S	175.02E	32	2.2	0.1	7	5
9860	JUL 06	0745 37.0	41.05S	174.85E	26	2.4	0.1	13	9
9862	JUL 06	1241 10.7	41.53S	174.86E	18	2.9	0.1	17	13
9863	JUL 06	1400 22.9	41.11S	174.82E	26	2.1	0.1	10	7
9870	JUL 06	2040 15.9	41.02S	174.83E	53	2.0	0.1	8	6
9875	JUL 06	2352 48.9	41.19S	175.79E	23	3.0	0.2	14	10
9879	JUL 07	0346 54.5	41.17S	175.77E	21	2.4	0.2	10	8
9880	JUL 07	0422 42.7	41.03S	174.49E	12R	3.0	0.3	22	17
9890	JUL 07	1513 4.6	40.79S	175.33E	28	2.3	0.1	14	10
9898	JUL 07	2355 56.3	41.62S	174.09E	24	2.2	0.3	8	4
9904	JUL 08	0425 37.2	41.66S	173.75E	12R	2.4	0.3	8	6
9906	JUL 08	0623 26.9	41.29S	175.28E	26	2.4	0.1	11	9
9912	JUL 08	0912 29.0	41.25S	173.85E	64	2.2	0.2	7	6
9918	JUL 08	1321 50.0	41.70S	174.51E	33R	2.1	0.2	6	4

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
9919	JUL 08	1517 23.4	41.66S	173.87E	60	2.3	0.2	7	5
9925	JUL 08	1833 35.1	41.02S	175.92E	34	2.9	0.2	10	8
9927	JUL 08	2044 29.9	40.99S	174.59E	45	2.8	0.1	11	9
9932	JUL 09	0006 10.8	41.11S	174.83E	26	2.3	0.1	12	9
9934	JUL 09	0104 10.7	41.08S	174.07E	57	2.7	0.1	14	10
9935	JUL 09	0139 7.6	40.73S	174.96E	19	2.5	0.2	12	9
9939	JUL 09	0350 45.7	41.27S	175.32E	25	2.1	0.1	10	8
9941	JUL 09	0816 50.3	40.80S	174.78E	5R	2.1	0.2	9	7
9947	JUL 09	1041 9.6	41.13S	173.76E	60	2.2	0.2	10	6
9956	JUL 09	1547 11.0	40.79S	174.79E	5R	2.3	0.2	11	7
9957	JUL 09	1739 17.9	40.80S	174.77E	5R	2.9	0.3	23	17
9958	JUL 09	1810 22.7	41.53S	174.50E	33	2.8	0.2	14	9
9960	JUL 09	2007 17.0	41.68S	174.27E	7	3.4F	0.3	19	13
9969	JUL 10	0603 8.1	41.01S	174.45E	64	3.1	0.1	17	13
9972	JUL 10	1011 46.5	41.84S	174.11E	12R	2.2	0.1	5	3
9974	JUL 10	1303 17.2	41.73S	173.73E	17	2.3	0.2	7	5
9979	JUL 10	1521 50.1	41.12S	174.78E	53	2.4	0.1	14	10
9981	JUL 10	1708 31.6	41.74S	174.21E	12	2.1	0.2	10	6
9984	JUL 10	1944 39.5	40.77S	174.78E	5R	2.3	0.2	8	6
9989	JUL 11	0359 19.9	41.73S	174.55E	27	2.5	0.2	13	10
9991	JUL 11	0858 59.4	40.94S	174.41E	68	2.3	0.1	11	8
9993	JUL 11	1445 8.6	40.79S	174.67E	57	2.0	0.2	7	5
9994	JUL 11	1533 49.8	41.07S	175.38E	31	3.2	0.2	18	14
9998	JUL 11	2048 13.0	41.21S	173.81E	61	2.7	0.2	16	11
10001	JUL 11	2306 54.1	41.02S	175.40E	26	2.2	0.1	10	8
10007	JUL 12	0535 9.4	41.64S	174.74E	33R	2.0	0.2	5	4
10008	JUL 12	0609 14.5	41.66S	174.18E	32	2.5	0.2	12	9
10012	JUL 12	0831 31.2	40.92S	175.25E	26	2.7	0.2	13	10
10013	JUL 12	0856 8.0	41.40S	174.05E	51	2.4	0.1	6	4
10027	JUL 12	2343 46.5	41.12S	174.65E	31	2.8	0.2	21	15
10031	JUL 13	0116 11.0	41.13S	174.48E	36	2.6	0.2	14	10
10033	JUL 13	0411 22.7	40.91S	175.09E	27	3.0	0.3	23	18
10037	JUL 13	0545 25.4	41.16S	174.46E	59	2.5	0.1	11	7
10046	JUL 13	1034 46.7	40.83S	174.79E	37	2.1	0.1	7	5
10068	JUL 13	2219 38.1	41.15S	174.47E	38	2.0	0.1	6	4
10071	JUL 13	2326 23.5	41.74S	173.80E	15	3.4	0.3	29	21
10072	JUL 14	0019 14.9	41.73S	173.78E	15	2.3	0.2	10	8
10077	JUL 14	0254 40.2	41.91S	174.28E	12R	2.4	0.2	10	6
10082	JUL 14	0658 37.1	41.68S	174.48E	52	2.6	0.1	12	9
10083	JUL 14	0712 8.2	41.69S	174.09E	5R	2.2	0.2	11	7
10085	JUL 14	0826 43.3	41.11S	174.81E	28	2.0	0.1	10	8
10088	JUL 14	0832 4.0	41.11S	174.81E	27	2.1	0.1	10	7
10091	JUL 14	1046 10.1	41.25S	173.72E	83	2.5	0.2	12	9
10092	JUL 14	1217 25.5	41.42S	174.68E	18	2.2	0.2	18	12
10094	JUL 14	1230 54.3	40.69S	174.79E	37	3.3	0.3	23	15

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
10099	JUL 14	1450 20.4	40.78S	174.78E	5R	2.2	0.2	9	7
10101	JUL 14	1624 31.9	41.21S	175.26E	27	2.5	0.1	15	10
10103	JUL 14	1833 27.8	41.70S	174.96E	27	3.2	0.2	21	16
10110	JUL 14	2130 7.1	41.61S	174.43E	15	2.0	0.2	10	8
10111	JUL 14	2140 21.3	41.20S	174.30E	39	2.2	0.1	8	7
10126	JUL 15	0744 22.4	40.96S	175.61E	25	2.0	0.1	11	7
10130	JUL 15	0925 43.1	41.48S	174.60E	13	2.4	0.3	16	12
10132	JUL 15	1123 56.1	41.34S	173.74E	50	2.7	0.3	10	7
10141	JUL 15	1908 23.8	40.98S	174.54E	54	2.6	0.1	14	10
10151	JUL 16	0722 13.3	40.67S	175.89E	28	2.6	0.2	13	9
10156	JUL 16	1155 31.5	41.64S	174.15E	31	2.1	0.3	9	7
10157	JUL 16	1317 1.8	41.65S	174.22E	27	2.3	0.3	14	11
10158	JUL 16	1329 42.7	41.84S	175.03E	30	2.6	0.2	11	8
10166	JUL 16	2020 37.3	41.67S	174.19E	31	2.7	0.2	15	12
10174	JUL 17	0156 26.9	40.62S	175.19E	37	2.0	0.2	7	5
10175	JUL 17	0236 6.3	41.67S	174.20E	31	2.2	0.1	10	8
10180	JUL 17	0603 11.5	41.33S	173.78E	55	3.2	0.1	16	11
10186	JUL 17	0945 33.5	40.98S	174.09E	55	3.0	0.3	20	15
10187	JUL 17	1022 11.2	40.87S	174.72E	13	3.1	0.2	29	24
10197	JUL 17	1605 8.7	41.18S	175.05E	26	2.2	0.1	10	7
10203	JUL 17	2016 28.1	41.10S	175.47E	22	2.5	0.1	15	10
10209	JUL 17	2247 25.4	41.45S	175.48E	20	2.1	0.2	9	7
10219	JUL 18	0901 32.9	40.95S	175.69E	23	2.0	0.1	9	8
10220	JUL 18	0901 40.4	40.95S	175.70E	24	2.6	0.1	14	10
10222	JUL 18	0915 33.4	41.00S	175.44E	33R	2.0	0.4	6	5
10224	JUL 18	0918 36.4	40.95S	175.70E	23	2.4	0.1	12	9
10225	JUL 18	0920 13.1	40.95S	175.68E	22	2.4	0.1	11	8
10227	JUL 18	1030 34.7	40.96S	175.65E	14	2.7	0.2	22	15
10235	JUL 18	1425 16.2	40.82S	175.68E	23	2.3	0.1	11	7
10241	JUL 18	2103 39.4	40.72S	174.46E	77	3.2	0.2	31	24
10244	JUL 18	2324 43.6	40.97S	173.69E	73	2.4	0.2	10	6
10252	JUL 19	0848 48.1	41.31S	173.59E	77	3.2	0.3	22	15
10258	JUL 19	1256 34.6	41.80S	174.23E	14	2.6	0.2	13	8
10259	JUL 19	1454 1.9	41.80S	174.22E	13	2.3	0.2	10	7
10260	JUL 19	1502 48.0	40.52S	174.27E	29	2.4	0.2	8	6
10266	JUL 19	2315 14.5	41.09S	175.50E	26	2.7	0.1	14	10
10267	JUL 20	0432 54.4	40.93S	175.61E	11	2.0	0.2	11	8
10268	JUL 20	0558 37.8	40.60S	175.29E	31	2.1	0.1	7	5
10269	JUL 20	0735 38.6	41.23S	174.45E	58	3.0	0.1	17	14
10272	JUL 20	1120 23.2	41.81S	174.22E	15	2.4	0.1	8	6
10277	JUL 20	1808 38.9	41.41S	174.46E	58	2.9	0.2	14	10
10280	JUL 21	0042 30.9	40.93S	175.69E	26	2.8	0.2	12	8
10285	JUL 21	1226 23.7	40.53S	173.61E	121	3.9	0.2	33	25
10292	JUL 21	2356 4.4	41.00S	174.21E	54	2.3	0.2	9	6
10293	JUL 22	0149 30.0	41.46S	175.33E	16	2.5	0.1	11	7

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
10294	JUL 22	0352 7.0	41.47S	175.34E	16	2.4	0.1	10	6
10295	JUL 22	0515 42.2	41.21S	174.33E	61	2.6	0.1	13	10
10299	JUL 22	0720 60.0	40.97S	174.45E	60	4.5F	0.2	50	37
10300	JUL 22	0726 25.7	40.92S	174.47E	49	2.6	0.1	12	9
10301	JUL 22	0747 5.5	40.91S	174.48E	50	2.3	0.2	11	8
10305	JUL 22	1037 23.1	41.37S	175.76E	22	2.8	0.2	16	10
10307	JUL 22	1419 33.1	41.45S	175.34E	15	2.3	0.1	12	9
10309	JUL 22	1633 25.1	40.79S	174.19E	101	2.4	0.3	8	5
10313	JUL 22	1839 49.8	41.60S	174.44E	11	2.8	0.2	20	15
10317	JUL 23	0013 54.7	41.01S	175.40E	26	2.4	0.1	11	8
10319	JUL 23	0101 34.9	41.21S	174.64E	32	2.4	0.1	14	12
10324	JUL 23	0629 20.7	40.93S	175.06E	32	2.1	0.2	9	7
10325	JUL 23	0737 36.6	41.20S	174.58E	34	2.1	0.1	11	8
10332	JUL 23	1538 18.5	41.51S	174.13E	16	2.0	0.2	11	7
10335	JUL 23	1903 34.0	41.30S	174.73E	29	2.8	0.2	20	15
10344	JUL 23	2312 15.4	41.54S	174.02E	15	2.7	0.3	22	16
10358	JUL 24	0855 27.0	40.98S	175.50E	24	2.2	0.1	7	5
10359	JUL 24	1055 24.3	40.91S	174.74E	43	2.3	0.1	8	6
10360	JUL 24	1149 52.9	40.60S	175.06E	39	2.3	0.1	9	6
10362	JUL 24	1322 59.9	41.41S	175.01E	24	2.2	0.1	14	10
10370	JUL 24	1643 49.6	41.50S	174.42E	21	2.1	0.1	6	4
10373	JUL 24	1920 14.1	41.35S	174.99E	25	2.1	0.1	9	6
10378	JUL 25	0100 11.0	41.20S	174.49E	34	2.4	0.2	14	12
10379	JUL 25	0107 47.1	41.60S	174.45E	20	2.0	0.2	8	7
10384	JUL 25	0402 29.4	40.98S	175.19E	30	3.1	0.2	24	21
10387	JUL 25	0523 19.9	40.97S	175.19E	28	2.7	0.2	19	12
10397	JUL 25	0754 48.6	41.30S	173.52E	89	2.3	0.2	10	6
10402	JUL 25	0937 44.2	41.25S	174.54E	32	2.2	0.1	10	8
10406	JUL 25	1045 8.1	40.64S	173.78E	94	2.5	0.1	6	5
10409	JUL 25	1209 39.8	41.22S	173.73E	78	2.3	0.1	8	5
10419	JUL 25	2022 58.0	41.53S	174.60E	12R	2.1	0.2	10	8
10422	JUL 25	2259 32.5	41.26S	175.31E	26	2.3	0.1	9	7
10424	JUL 26	0036 5.2	41.55S	174.40E	9	2.9	0.2	20	16
10426	JUL 26	0059 22.9	41.62S	174.42E	13	2.3	0.1	13	9
10433	JUL 26	0843 22.3	40.52S	175.77E	30	2.2	0.1	10	8
10435	JUL 26	1114 17.8	40.93S	175.54E	22	2.5	0.2	14	9
10439	JUL 26	1546 37.5	41.50S	174.66E	27	2.7	0.1	18	12
10440	JUL 26	1613 12.3	40.50S	175.67E	34	2.3	0.1	5	4
10441	JUL 26	1703 44.7	41.07S	174.84E	55	2.5	0.1	9	7
10448	JUL 27	0037 5.1	41.79S	173.88E	12R	2.4	0.3	8	6
10455	JUL 27	0357 32.4	41.57S	173.65E	46	2.4	0.2	8	4
10461	JUL 27	0921 36.8	41.65S	174.34E	13	2.3	0.2	13	8
10463	JUL 27	1013 9.8	41.36S	175.01E	28	2.3	0.1	18	12
10468	JUL 27	1541 43.2	41.41S	174.54E	33	2.2	0.0	6	4
10478	JUL 27	2258 50.1	41.36S	175.40E	26	2.4	0.3	13	9

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
10481	JUL 28	0224 44.3	41.03S	175.45E	29	3.4	0.2	28	23
10492	JUL 28	1156 39.1	40.74S	174.46E	27	2.2	0.2	9	7
10495	JUL 28	1353 30.0	41.02S	175.39E	21	2.1	0.1	10	7
10497	JUL 28	1416 36.0	41.93S	173.98E	11	2.4	0.2	12	8
10498	JUL 28	1546 50.6	41.66S	175.00E	25	2.3	0.1	9	6
10504	JUL 29	0112 30.8	41.65S	174.20E	26	2.5	0.1	9	7
10507	JUL 29	0417 15.6	41.28S	175.28E	26	2.6	0.1	12	8
10518	JUL 29	1608 18.2	41.53S	175.10E	29	2.4	0.2	12	8
10530	JUL 30	0856 9.7	41.77S	174.23E	32	3.1	0.3	27	19
10534	JUL 30	1002 44.1	41.54S	173.67E	60	3.8F	0.2	28	20
10538	JUL 30	1252 1.3	40.68S	174.36E	52	3.3	0.2	26	22
10592	JUL 31	1729 33.5	41.39S	174.42E	33	2.3	0.1	12	9
10598	JUL 31	1941 46.0	41.68S	174.09E	21	2.4	0.1	10	8
10603	JUL 31	2320 27.1	41.34S	174.66E	20	2.2	0.2	12	7
10607	AUG 01	0053 22.6	41.39S	174.55E	28	2.1	0.1	8	5
10614	AUG 01	0514 5.2	41.68S	174.21E	30	2.4	0.2	14	9
10617	AUG 01	0646 22.9	41.40S	173.68E	57	2.9	0.2	11	7
10619	AUG 01	0754 44.3	41.64S	174.63E	29	2.2	0.1	11	8
10625	AUG 01	1326 20.4	41.65S	174.74E	27	2.5	0.1	11	8
10626	AUG 01	1354 11.7	41.75S	174.45E	17	2.3	0.2	7	6
10633	AUG 01	2110 38.4	40.57S	175.23E	30	2.3	0.2	10	8
10636	AUG 01	2351 9.8	41.67S	174.98E	25	2.4	0.1	8	5
10640	AUG 02	0414 38.2	41.65S	174.99E	25	2.5	0.1	9	7
10651	AUG 02	1122 42.3	41.64S	173.85E	17	2.7	0.2	15	10
10662	AUG 02	2014 44.6	40.54S	175.94E	29	2.3	0.1	8	6
10668	AUG 03	0017 15.5	41.60S	173.90E	43	3.1	0.3	24	18
10669	AUG 03	0025 49.5	40.55S	174.66E	30	2.4	0.2	11	8
10684	AUG 03	1525 12.2	40.86S	175.88E	26	2.3	0.1	10	7
10698	AUG 03	2345 40.1	40.57S	175.77E	24	2.4	0.2	13	9
10700	AUG 04	0015 26.5	40.83S	175.89E	33R	2.1	0.2	6	5
10705	AUG 04	0226 50.3	41.36S	173.82E	50	2.6	0.2	8	6
10708	AUG 04	0425 26.4	40.81S	175.14E	40	3.3	0.2	29	20
10711	AUG 04	0559 32.1	40.87S	175.55E	29	2.1	0.2	13	10
10712	AUG 04	0559 35.4	40.89S	175.50E	21	2.8	0.2	19	16
10720	AUG 04	1251 16.6	41.01S	175.63E	26	3.7	0.2	37	26
10724	AUG 04	1603 22.5	41.20S	175.19E	28	2.3	0.1	15	10
10731	AUG 04	2030 25.2	41.41S	174.41E	33	2.4	0.2	13	9
10733	AUG 04	2256 29.5	40.79S	174.46E	5R	2.0	0.2	7	5
10735	AUG 05	0050 36.2	40.89S	175.48E	19	2.7	0.2	18	13
10753	AUG 05	1129 52.2	40.63S	174.74E	37	2.1	0.1	10	7
10758	AUG 05	1309 12.4	41.66S	174.20E	29	2.3	0.1	13	8
10781	AUG 06	0606 13.5	40.99S	175.63E	28	2.8	0.2	18	12
10786	AUG 06	0955 50.2	40.52S	175.24E	35	2.3	0.2	7	5
10788	AUG 06	1019 0.2	41.65S	174.21E	24	2.3	0.2	17	11
10796	AUG 06	1312 45.8	41.98S	173.86E	9	2.3	0.1	6	3

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
10803	AUG 06	1549 24.6	41.77S	174.52E	31	2.2	0.2	7	6
10805	AUG 06	1710 13.1	41.02S	174.95E	28	2.8	0.1	20	13
10814	AUG 07	0223 2.2	40.87S	175.36E	27	2.1	0.2	11	9
10818	AUG 07	0903 49.8	41.68S	174.51E	31	2.4	0.2	16	13
10820	AUG 07	1353 43.6	40.96S	175.23E	34	2.7	0.1	15	10
10825	AUG 07	1502 22.1	41.07S	175.95E	31	2.2	0.2	9	8
10826	AUG 07	1506 52.5	41.54S	174.08E	5R	2.5	0.3	18	13
10830	AUG 07	1833 47.8	41.09S	174.89E	31	2.1	0.2	9	6
10832	AUG 07	1954 20.5	40.56S	174.73E	49	3.2	0.2	26	21
10847	AUG 08	0733 39.6	41.24S	174.64E	29	2.2	0.1	10	7
10855	AUG 08	1153 12.8	41.99S	173.83E	11	2.6	0.3	12	8
10856	AUG 08	1337 23.8	41.16S	174.47E	34	4.2F	0.2	41	31
10858	AUG 08	1349 30.9	41.16S	174.50E	33	3.1	0.3	28	20
10861	AUG 08	1437 28.5	41.42S	173.63E	74	4.0F	0.2	36	24
10865	AUG 08	1547 36.6	40.57S	175.17E	41	3.2	0.3	34	28
10868	AUG 08	1858 57.9	41.01S	175.60E	25	2.9	0.2	19	13
10872	AUG 09	1056 12.2	41.29S	175.69E	14	2.2	0.1	10	7
10875	AUG 09	1330 30.4	40.80S	175.11E	28	2.8	0.2	18	13
10876	AUG 09	1459 23.4	40.97S	175.24E	27	2.5	0.2	15	10
10883	AUG 10	0231 2.1	40.95S	175.15E	31	2.4	0.1	12	9
10886	AUG 10	0701 21.9	41.40S	173.61E	60	2.7	0.2	18	11
10887	AUG 10	0706 52.6	40.80S	174.97E	63	3.1	0.2	35	27
10890	AUG 10	0729 23.5	41.60S	174.23E	5R	2.2	0.1	10	6
10893	AUG 10	1157 23.5	41.16S	174.03E	61	3.3	0.2	33	22
10895	AUG 10	1250 1.7	41.15S	174.73E	53	2.2	0.1	9	7
10901	AUG 10	1829 44.0	41.19S	174.48E	34	3.1	0.3	29	21
10906	AUG 10	2239 37.6	41.43S	174.72E	27	2.6	0.1	24	16
10908	AUG 11	0312 56.4	41.28S	174.44E	14	2.3	0.2	11	8
10909	AUG 11	0432 52.2	41.29S	174.84E	24	2.3	0.1	13	9
10917	AUG 11	1008 2.3	41.67S	174.21E	23	2.3	0.3	15	9
10918	AUG 11	1051 26.0	41.86S	174.54E	33R	2.8	0.2	8	5
10927	AUG 11	1553 7.2	41.21S	173.82E	47	2.4	0.3	7	5
10933	AUG 11	2052 29.5	40.59S	174.23E	64	2.7	0.3	12	7
10934	AUG 11	2153 45.2	41.04S	175.40E	25	2.1	0.2	8	6
10936	AUG 11	2336 51.9	41.12S	174.81E	26	2.3	0.1	11	8
10938	AUG 12	0132 37.9	40.63S	174.66E	68	2.4	0.1	8	5
10942	AUG 12	0250 42.1	41.51S	174.69E	27	2.2	0.1	9	7
10945	AUG 12	0442 58.1	40.77S	175.38E	22	2.1	0.1	9	7
10957	AUG 12	0947 32.7	40.90S	175.13E	26	2.5	0.3	15	10
10958	AUG 12	1027 1.2	41.28S	175.20E	17	2.6	0.1	16	12
10959	AUG 12	1029 21.4	41.28S	175.20E	18	2.3	0.1	9	7
10965	AUG 12	1517 3.9	41.41S	175.02E	25	2.0	0.1	14	10
10969	AUG 12	1726 56.2	41.58S	174.47E	12R	2.0	0.2	10	9
10995	AUG 14	0720 13.0	41.14S	175.56E	16	2.4	0.1	9	7
10998	AUG 14	1230 10.1	41.26S	175.16E	25	3.0	0.2	16	13

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
11001	AUG 14	1512 53.2	40.54S	174.71E	83	2.8	0.2	7	5
11003	AUG 14	2035 6.4	41.21S	174.56E	54	2.7	0.0	9	8
11007	AUG 15	0453 43.2	40.92S	175.69E	28	3.2	0.1	14	12
11015	AUG 15	1446 46.6	41.23S	173.76E	73	2.5	0.2	18	10
11023	AUG 15	2314 55.0	40.97S	175.78E	37	2.1	0.1	9	7
11032	AUG 16	1338 59.5	40.84S	175.06E	35	2.2	0.2	7	5
11044	AUG 17	0109 44.2	40.80S	175.09E	39	2.1	0.2	9	7
11063	AUG 17	2138 35.6	41.34S	174.84E	29	2.5	0.1	15	12
11071	AUG 18	0200 4.5	41.67S	174.21E	26	3.0	0.3	24	16
11073	AUG 18	0219 22.6	41.53S	174.42E	12R	2.0	0.4	12	10
11076	AUG 18	0334 14.8	41.73S	173.74E	44	2.5	0.1	11	6
11077	AUG 18	0456 2.7	41.66S	174.20E	28	3.0	0.3	28	20
11079	AUG 18	1032 21.0	40.76S	175.07E	47	2.2	0.2	8	7
11080	AUG 18	1042 45.3	41.71S	174.26E	5R	3.2	0.3	28	20
11082	AUG 18	1202 25.1	41.71S	174.27E	5R	2.3	0.2	13	9
11103	AUG 19	0403 44.5	41.56S	173.67E	41	2.5	0.2	10	6
11108	AUG 19	1136 27.5	41.09S	175.06E	27	2.0	0.1	7	6
11110	AUG 19	1145 0.9	41.63S	175.06E	29	2.7	0.2	11	8
11112	AUG 19	1152 39.2	41.09S	175.06E	27	2.8	0.1	15	11
11117	AUG 19	1530 31.8	41.54S	174.10E	32	2.5	0.2	16	12
11123	AUG 20	0409 45.6	41.65S	174.34E	18	2.3	0.2	10	7
11126	AUG 20	0931 21.9	40.86S	174.30E	46	2.3	0.2	11	8
11133	AUG 20	1630 8.9	41.01S	174.98E	43	2.7	0.1	10	8
11135	AUG 20	2024 40.4	41.01S	174.71E	30	2.7	0.1	16	13
11139	AUG 21	0310 13.1	41.12S	174.09E	54	2.7	0.2	14	10
11173	AUG 21	1107 33.4	41.54S	174.88E	18	2.1	0.1	13	10
11221	AUG 21	1638 38.3	41.64S	173.96E	14	2.6	0.2	9	5
11231	AUG 21	1730 1.5	40.87S	174.74E	13	2.6	0.1	10	7
11267	AUG 22	0024 29.9	40.50S	174.48E	33R	2.6	0.2	12	8
11302	AUG 22	0842 51.2	41.67S	174.19E	32	2.9	0.2	20	14
11304	AUG 22	0852 19.4	41.91S	174.15E	12R	2.2	0.2	11	9
11310	AUG 22	1015 48.3	41.98S	174.07E	26	2.4	0.2	9	5
11313	AUG 22	1046 9.1	41.00S	173.72E	63	2.7	0.2	10	6
11329	AUG 22	1322 58.0	41.09S	175.92E	31	2.1	0.2	9	6
11355	AUG 22	1741 17.0	41.70S	174.13E	30	2.2	0.2	11	8
11361	AUG 22	1923 47.3	41.11S	173.93E	51	2.5	0.2	10	7
11371	AUG 23	0024 57.0	41.98S	175.09E	31	2.6	0.1	13	9
11372	AUG 23	0037 50.7	40.61S	174.18E	54	2.8	0.5	17	11
11393	AUG 23	1100 0.9	41.40S	174.28E	61	2.1	0.1	7	5
11406	AUG 23	2017 29.0	41.07S	175.34E	29	2.2	0.1	9	6
11414	AUG 23	2304 30.9	40.55S	174.43E	29	2.3	0.3	8	6
11420	AUG 24	0045 48.3	41.32S	174.92E	29	2.4	0.1	13	9
11421	AUG 24	0052 46.8	41.30S	175.31E	29	3.3	0.2	29	22
11426	AUG 24	0207 45.6	40.78S	174.39E	74	2.4	0.2	10	6
11462	AUG 24	1333 57.2	41.20S	173.98E	50	2.2	0.2	9	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
11463	AUG 24	1408 32.2	41.08S	173.66E	76	3.0	0.3	18	11
11464	AUG 24	1420 49.6	40.58S	174.18E	59	3.4	0.4	35	24
11465	AUG 24	1422 33.7	40.57S	174.20E	63	2.8	0.3	19	12
11510	AUG 25	0235 37.0	40.59S	174.39E	72	2.3	0.1	8	6
11521	AUG 25	0505 39.5	41.38S	175.33E	14	2.6	0.1	12	9
11537	AUG 25	1135 13.7	41.29S	174.53E	36	2.1	0.1	9	6
11549	AUG 25	1641 37.8	40.63S	174.08E	100	2.9	0.2	11	9
11551	AUG 25	1700 8.9	40.63S	174.23E	78	2.2	0.0	8	5
11553	AUG 25	1840 20.5	40.86S	174.76E	17	2.1	0.1	10	7
11577	AUG 26	0430 58.4	41.04S	175.40E	25	2.3	0.1	12	8
11587	AUG 26	0901 47.8	41.03S	175.41E	26	2.0	0.0	8	6
11606	AUG 26	1449 0.5	40.88S	174.77E	15	2.1	0.1	9	6
11611	AUG 26	1629 57.8	41.41S	175.43E	15	2.6	0.1	13	9
11622	AUG 26	2126 43.8	40.99S	174.64E	45	2.2	0.1	6	4
11628	AUG 27	0331 7.6	40.92S	174.49E	50	2.2	0.3	13	9
11632	AUG 27	0516 24.6	41.07S	175.39E	27	3.0	0.3	26	20
11636	AUG 27	0742 57.5	41.03S	175.38E	22	2.7	0.1	13	10
11640	AUG 27	0905 30.0	40.89S	174.82E	45	2.2	0.1	11	7
11646	AUG 27	0957 30.7	40.89S	174.56E	44	3.2	0.2	33	26
11647	AUG 27	1006 37.0	41.40S	175.43E	14	2.2	0.1	11	8
11657	AUG 27	1434 54.1	41.05S	175.95E	31	2.4	0.2	9	7
11669	AUG 27	1748 8.3	41.68S	174.59E	21	2.0	0.1	6	4
11681	AUG 27	2301 47.8	40.73S	175.34E	28	2.6	0.2	9	8
11684	AUG 28	0030 30.1	40.96S	175.50E	24	2.2	0.1	7	6
11703	AUG 28	0434 12.9	41.26S	175.23E	26	2.3	0.1	12	8
11709	AUG 28	0812 18.2	41.50S	174.35E	12R	2.2	0.3	17	12
11737	AUG 28	2010 10.1	41.74S	174.13E	33	2.4	0.3	17	12
11759	AUG 29	0713 52.0	41.21S	175.70E	26	2.5	0.1	14	11
11780	AUG 29	1717 42.2	41.14S	174.58E	35	2.5	0.1	17	12
11782	AUG 29	1736 20.6	40.88S	175.06E	55	2.3	0.1	12	10
11798	AUG 30	0509 31.9	40.75S	174.40E	52	3.1	0.3	40	28
11813	AUG 30	1319 57.2	41.97S	174.23E	23	2.4	0.2	14	10
11817	AUG 30	1543 5.6	41.63S	174.63E	27	2.2	0.1	7	5
11828	AUG 30	2157 45.3	41.02S	175.25E	25	2.4	0.1	9	8
11854	AUG 31	0548 52.9	41.68S	174.57E	31	2.6	0.1	13	9
11862	AUG 31	0745 33.1	40.73S	174.68E	67	2.2	0.1	11	8
11896	AUG 31	1637 2.3	41.45S	174.49E	59	3.1	0.1	30	23
11901	AUG 31	1753 44.7	41.00S	175.44E	28	2.5	0.1	11	8
11906	AUG 31	1904 7.8	41.13S	175.78E	31	2.5	0.2	12	8
11908	AUG 31	1938 52.8	41.36S	175.03E	25	2.1	0.1	11	9
11911	AUG 31	2113 52.4	41.71S	174.52E	28	2.5	0.1	15	10
11913	AUG 31	2331 34.7	41.01S	174.63E	62	2.3	0.2	10	7
11920	SEP 01	0204 42.9	41.68S	174.31E	13	2.2	0.3	14	10
11944	SEP 01	1242 20.5	41.53S	174.08E	12R	2.3	0.3	19	14
11957	SEP 01	2216 28.7	40.52S	175.05E	32	2.0	0.2	9	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
11965	SEP 02	0116 57.0	40.84S	174.34E	54	2.2	0.2	9	7
11972	SEP 02	0539 29.1	41.05S	173.65E	57	2.2	0.1	9	6
11977	SEP 02	0618 54.0	41.72S	174.48E	33	2.7	0.2	13	9
11986	SEP 02	0857 22.8	41.39S	174.01E	45	3.1	0.3	35	23
11987	SEP 02	0903 4.9	41.05S	174.85E	50	2.1	0.1	9	8
11993	SEP 02	1403 45.9	41.28S	174.83E	28	2.0	0.2	14	10
12006	SEP 02	1925 22.2	41.26S	174.76E	45	2.3	0.1	13	10
12010	SEP 02	2040 8.8	41.27S	175.30E	24	2.6	0.1	14	9
12013	SEP 02	2208 58.9	40.66S	173.96E	74	2.5	0.3	9	7
12028	SEP 03	0708 34.9	41.73S	173.74E	13	2.5	0.3	20	13
12048	SEP 03	1306 52.2	41.75S	174.30E	10	2.3	0.3	16	13
12081	SEP 04	0821 53.6	41.16S	174.45E	34	2.3	0.2	13	10
12093	SEP 04	1333 17.4	40.54S	175.23E	12R	3.1	0.4	35	30
12096	SEP 04	1502 28.6	41.15S	174.80E	30	2.4	0.1	15	12
12098	SEP 04	1735 12.4	41.06S	174.66E	56	2.4	0.1	11	9
12105	SEP 05	0056 35.0	41.32S	174.08E	40	2.7	0.3	18	13
12113	SEP 05	1132 39.8	40.78S	174.72E	37	2.4	0.2	12	9
12115	SEP 05	1345 3.4	40.96S	175.63E	19	2.5	0.2	12	9
12117	SEP 05	1353 5.9	41.28S	174.03E	42	2.2	0.2	9	6
12120	SEP 05	1514 13.7	41.34S	174.07E	42	2.1	0.0	6	4
12139	SEP 05	2128 49.9	41.02S	175.41E	26	2.6	0.1	14	11
12144	SEP 05	2307 33.7	40.75S	174.25E	51	3.2	0.3	22	16
12146	SEP 05	2344 52.6	40.67S	174.34E	48	2.3	0.1	7	6
12159	SEP 06	1059 43.7	41.07S	175.05E	18	2.0	0.2	13	10
12172	SEP 06	1830 14.8	40.75S	174.79E	5R	2.5	0.2	12	10
12176	SEP 06	1958 36.8	41.04S	174.81E	52	2.6	0.1	12	9
12190	SEP 07	0537 23.2	41.51S	173.66E	201	2.7	0.3	8	5
12191	SEP 07	0603 42.4	41.07S	174.52E	58	2.1	0.1	9	6
12203	SEP 07	1211 30.0	41.20S	174.51E	36	2.2	0.2	11	8
12208	SEP 07	1814 1.3	41.46S	174.35E	15	2.8	0.3	27	22
12213	SEP 07	2204 39.5	41.58S	175.37E	21	2.7	0.2	19	14
12214	SEP 07	2249 45.9	40.85S	175.89E	32	2.4	0.2	10	8
12217	SEP 08	0013 45.3	41.57S	173.71E	45	3.5	0.2	34	23
12224	SEP 08	0417 40.3	40.80S	174.77E	42	2.8	0.2	20	15
12229	SEP 08	0756 19.4	40.65S	174.39E	76	2.7	0.3	10	6
12238	SEP 08	1035 0.1	40.98S	175.55E	23	2.8	0.2	17	13
12243	SEP 08	1249 2.9	41.73S	174.50E	27	2.1	0.1	11	9
12265	SEP 08	2045 24.5	41.75S	174.51E	37	2.5	0.1	12	10
12266	SEP 08	2224 7.1	40.53S	174.07E	70	2.9	0.2	26	22
12279	SEP 09	0511 55.8	41.69S	174.55E	12R	2.0	0.3	9	6
12294	SEP 09	1000 38.1	40.97S	175.43E	29	2.4	0.2	12	8
12314	SEP 09	1905 40.1	41.55S	175.37E	20	2.4	0.3	14	10
12318	SEP 09	2127 5.4	40.94S	175.67E	23	2.2	0.1	10	8
12328	SEP 09	2359 9.5	41.18S	174.46E	37	2.2	0.1	11	8
12330	SEP 10	0038 31.1	41.15S	173.90E	49	2.5	0.2	11	7

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
12337	SEP 10	0151 23.0	40.51S	174.79E	5R	2.3	0.3	11	8
12354	SEP 10	0745 42.5	41.47S	174.36E	12R	2.3	0.2	11	8
12358	SEP 10	0824 12.1	41.44S	174.34E	21	2.5	0.2	16	12
12360	SEP 10	0902 53.7	41.77S	173.75E	12R	2.0	0.2	8	5
12363	SEP 10	0919 14.8	41.49S	174.17E	59	2.7	0.1	15	11
12365	SEP 10	1001 29.4	41.74S	174.28E	13	2.4	0.2	15	11
12374	SEP 10	1334 45.0	41.48S	174.35E	12R	2.0	0.3	10	8
12380	SEP 10	1410 8.9	40.52S	174.31E	60	3.3	0.3	36	26
12427	SEP 11	0319 42.2	41.60S	173.68E	43	3.2	0.3	21	16
12445	SEP 11	0842 19.1	41.19S	174.59E	59	2.0	0.1	10	6
12449	SEP 11	0914 3.1	40.66S	175.93E	11	3.3	0.3	28	22
12463	SEP 11	1259 38.7	40.87S	174.28E	46	2.8	0.3	22	17
12464	SEP 11	1316 0.8	41.00S	175.42E	27	2.3	0.1	13	10
12468	SEP 11	1433 36.1	40.52S	174.07E	88	2.2	0.1	8	6
12469	SEP 11	1504 18.1	40.52S	175.88E	21	2.1	0.1	7	5
12474	SEP 11	1529 26.6	41.88S	174.79E	29	3.0	0.2	27	19
12497	SEP 11	2314 12.8	41.22S	175.13E	28	2.0	0.2	8	5
12502	SEP 12	0026 7.4	41.30S	174.10E	45	2.6	0.2	15	12
12512	SEP 12	0256 35.5	40.56S	174.35E	89	3.7	0.3	39	30
12517	SEP 12	0343 44.4	41.02S	174.08E	52	2.0	0.2	11	7
12538	SEP 12	1307 6.5	41.54S	173.70E	73	2.2	0.0	7	5
12539	SEP 12	1411 24.0	40.92S	175.10E	32	2.4	0.2	11	9
12551	SEP 12	2214 18.6	41.51S	174.00E	35	2.3	0.2	11	7
12557	SEP 13	0100 19.4	41.66S	174.32E	12R	2.2	0.2	11	6
12564	SEP 13	0229 15.8	41.80S	174.34E	12R	2.2	0.3	17	12
12568	SEP 13	0344 23.0	41.26S	174.86E	25	2.6	0.1	14	12
12571	SEP 13	0424 7.9	41.87S	174.03E	14	2.0	0.3	15	10
12572	SEP 13	0425 22.3	41.90S	174.07E	12R	2.5	0.4	19	14
12580	SEP 13	0854 31.2	41.33S	174.12E	42	2.1	0.1	11	8
12587	SEP 13	1027 14.4	40.83S	175.30E	27	2.4	0.2	13	12
12598	SEP 13	1546 50.8	41.07S	174.45E	66	2.2	0.1	11	8
12612	SEP 13	1956 32.6	41.81S	174.69E	5R	2.3	0.2	9	6
12622	SEP 13	2210 26.5	41.94S	173.92E	5R	2.3	0.2	15	10
12639	SEP 14	1142 0.5	41.38S	175.00E	27	2.3	0.1	14	10
12641	SEP 14	1447 14.9	41.09S	174.02E	49	2.6	0.2	17	12
12642	SEP 14	1500 40.0	40.65S	174.97E	32	2.5	0.2	17	12
12647	SEP 14	1935 2.1	41.29S	175.21E	21	2.2	0.1	10	8
12650	SEP 14	2130 34.3	41.23S	174.33E	36	3.1	0.3	24	20
12654	SEP 15	0053 47.0	41.01S	175.59E	26	3.0	0.3	18	15
12655	SEP 15	0305 28.4	40.86S	175.10E	32	2.1	0.2	11	8
12659	SEP 15	0456 7.6	40.87S	174.70E	48	2.5	0.1	11	8
12664	SEP 15	0902 45.3	41.01S	175.44E	32	2.1	0.1	8	7
12673	SEP 15	1403 1.3	40.86S	174.75E	13	2.6	0.3	21	14
12675	SEP 15	1616 17.8	40.72S	174.83E	13	2.2	0.3	16	13
12712	SEP 16	1410 47.8	40.97S	175.02E	41	2.3	0.1	14	11

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
12715	SEP 16	1528 24.8	41.08S	174.80E	32	2.2	0.1	11	7
12721	SEP 16	1731 29.3	41.01S	175.43E	27	2.4	0.1	13	9
12723	SEP 16	1855 41.3	40.91S	175.73E	29	2.3	0.1	11	8
12737	SEP 17	0314 36.8	41.90S	174.19E	9	3.4	0.3	32	23
12749	SEP 17	1534 49.9	41.95S	174.16E	17	2.2	0.2	11	8
12763	SEP 18	0227 44.5	41.37S	174.89E	26	2.1	0.1	8	7
12766	SEP 18	0349 2.0	41.15S	174.75E	31	2.7	0.1	19	13
12769	SEP 18	0653 60.0	40.57S	174.41E	32	3.0	0.2	26	20
12773	SEP 18	0712 17.6	40.73S	174.29E	55	3.1	0.3	30	22
12778	SEP 18	1007 48.2	41.04S	175.93E	31	2.5	0.2	11	8
12795	SEP 18	2306 22.4	40.96S	174.95E	44	2.1	0.1	6	5
12799	SEP 19	0133 27.4	41.14S	174.60E	35	2.1	0.1	13	8
12801	SEP 19	0307 36.8	41.36S	174.21E	37	2.1	0.2	9	6
12835	SEP 19	2141 45.0	41.88S	174.16E	12R	2.3	0.3	15	11
12836	SEP 19	2148 57.7	40.69S	174.80E	5R	2.5	0.3	13	12
12846	SEP 20	0249 59.4	41.78S	174.01E	14	2.5	0.1	5	3
12852	SEP 20	1047 14.6	40.70S	174.31E	82	3.2	0.2	40	28
12854	SEP 20	1133 44.4	41.72S	174.00E	35	2.6	0.2	22	14
12864	SEP 20	1623 20.4	41.08S	175.05E	29	2.2	0.1	8	6
12865	SEP 20	1705 52.0	41.15S	174.50E	33	2.9	0.4	28	19
12869	SEP 20	1959 50.1	41.28S	174.72E	25	2.4	0.2	20	15
12870	SEP 20	2000 36.1	41.29S	174.71E	26	2.2	0.2	11	9
12871	SEP 20	2006 41.9	41.29S	174.71E	26	2.2	0.1	10	8
12874	SEP 21	0148 39.6	40.98S	174.57E	60	2.4	0.1	11	7
12878	SEP 21	0506 44.5	41.12S	175.00E	29	2.1	0.1	8	6
12880	SEP 21	0711 35.1	41.63S	174.77E	31	2.3	0.2	12	10
12883	SEP 21	0843 44.3	41.11S	174.10E	55	3.2	0.2	26	18
12911	SEP 21	2144 6.4	40.88S	174.64E	56	2.3	0.2	9	6
12918	SEP 22	0239 53.4	40.51S	174.47E	29	2.8	0.3	20	16
12922	SEP 22	0532 23.8	41.07S	174.80E	54	2.7	0.2	15	11
12958	SEP 23	0243 41.2	41.25S	175.24E	24	2.3	0.1	11	8
12970	SEP 23	0903 9.2	41.66S	174.30E	5R	2.1	0.3	12	8
12974	SEP 23	1111 36.3	41.73S	173.86E	38	3.4	0.3	32	22
12975	SEP 23	1230 18.9	41.42S	173.64E	59	2.1	0.2	10	7
12979	SEP 23	1332 12.2	41.23S	174.55E	33	2.0	0.2	11	8
12985	SEP 23	1548 10.2	41.26S	175.19E	22	2.5	0.1	15	11
12986	SEP 23	1607 49.9	41.73S	173.87E	34	3.0	0.4	31	20
12991	SEP 23	1959 6.9	40.52S	174.21E	56	3.0	0.2	17	12
12994	SEP 23	2228 40.3	40.99S	175.33E	19	2.6	0.1	10	7
13001	SEP 24	0510 52.0	41.25S	175.32E	25	2.9	0.1	13	10
13002	SEP 24	0514 40.6	41.26S	175.31E	25	3.0	0.1	16	11
13039	SEP 24	1854 45.8	41.26S	175.60E	24	3.1	0.2	20	15
13101	SEP 26	1303 19.2	41.88S	174.07E	12R	2.3	0.4	20	15
13128	SEP 27	0032 38.7	41.19S	174.64E	32	2.6	0.1	18	14
13130	SEP 27	0146 0.2	41.53S	173.51E	81	3.4	0.3	35	23

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
13132	SEP 27	0431 52.1	41.40S	175.06E	27	2.4	0.1	13	11
13134	SEP 27	0456 45.1	40.59S	175.57E	33R	2.3	0.3	10	5
13144	SEP 27	0951 29.8	41.09S	174.59E	57	2.2	0.1	9	6
13152	SEP 27	1857 24.2	41.03S	174.53E	54	2.1	0.1	9	6
13167	SEP 28	0338 57.2	41.60S	174.65E	31	2.5	0.2	14	12
13168	SEP 28	0348 1.6	40.74S	174.24E	57	2.3	0.2	7	6
13212	SEP 29	0053 20.9	41.18S	174.46E	36	2.4	0.2	16	13
13215	SEP 29	0125 27.6	41.39S	174.91E	29	2.2	0.1	11	9
13217	SEP 29	0245 46.8	40.78S	175.85E	27	2.8	0.1	10	8
13243	SEP 29	0901 55.5	41.61S	173.69E	44	2.9	0.3	24	17
13252	SEP 29	1207 26.3	40.75S	175.10E	32	2.1	0.1	9	7
13253	SEP 29	1207 44.2	40.74S	175.05E	36	2.0	0.1	5	4
13265	SEP 29	1511 53.0	41.70S	174.13E	16	3.1	0.3	28	20
13281	SEP 30	0449 26.2	41.69S	173.92E	15	2.5	0.2	15	11
13282	SEP 30	0556 6.9	40.72S	174.51E	70	3.1	0.2	20	14
13288	SEP 30	0748 21.2	41.01S	173.95E	76	2.3	0.4	7	4
13292	SEP 30	1135 29.0	41.42S	174.99E	26	2.9	0.2	24	18
13295	SEP 30	1356 44.9	41.71S	174.33E	34	2.2	0.2	11	8
13296	SEP 30	1426 44.7	40.91S	175.71E	28	2.4	0.2	13	10
13299	SEP 30	1514 2.4	40.91S	175.72E	28	2.3	0.1	10	8
13301	SEP 30	1615 47.4	40.87S	174.74E	15	2.1	0.1	10	6
13302	SEP 30	1644 38.2	41.06S	175.70E	24	2.6	0.2	17	14
13309	SEP 30	1923 17.1	41.24S	174.65E	33	2.6	0.2	21	14
13317	SEP 30	2138 41.9	41.70S	174.34E	14	2.4	0.2	15	11
13332	OCT 01	1108 3.7	41.05S	173.58E	73	2.8	0.3	20	12
13341	OCT 01	1451 52.8	40.60S	174.25E	60	2.4	0.2	17	12
13357	OCT 01	2359 39.9	41.38S	173.78E	53	3.0	0.3	17	13
13376	OCT 02	1008 16.2	41.38S	173.67E	48	2.1	0.2	11	6
13381	OCT 02	1422 34.2	41.09S	173.77E	58	2.6	0.3	22	16
13398	OCT 02	2311 11.1	41.34S	174.95E	26	2.1	0.1	10	7
13399	OCT 02	2322 9.1	41.58S	174.23E	20	2.2	0.4	11	7
13406	OCT 03	0417 16.4	40.99S	175.59E	29	2.7	0.1	17	12
13408	OCT 03	0552 46.4	40.96S	175.51E	20	2.9	0.3	23	18
13409	OCT 03	0610 7.8	41.68S	174.27E	25	2.1	0.1	13	9
13431	OCT 03	1616 21.9	40.71S	173.95E	95	3.3	0.3	30	21
13459	OCT 04	1424 4.1	41.57S	174.39E	25	2.0	0.1	6	5
13460	OCT 04	1424 40.5	40.99S	175.63E	26	2.1	0.1	7	6
13484	OCT 05	0802 11.8	41.38S	175.35E	38	2.7	0.2	25	19
13499	OCT 05	1347 13.2	41.50S	173.96E	38	2.4	0.3	22	17
13504	OCT 05	1430 39.4	40.89S	174.25E	55	2.6	0.2	19	13
13506	OCT 05	1458 54.0	41.76S	174.50E	12R	2.0	0.2	6	5
13516	OCT 05	1930 9.5	41.49S	174.60E	16	2.0	0.1	8	5
13525	OCT 06	0121 46.6	41.53S	174.49E	18	3.5	0.2	31	22
13530	OCT 06	0656 4.0	40.55S	173.96E	90	2.4	0.1	7	5
13532	OCT 06	0728 42.3	41.58S	174.65E	33	2.0	0.1	8	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
13539	OCT 06	1036 55.8	41.26S	174.50E	35	2.5	0.2	22	16
13541	OCT 06	1202 26.1	41.51S	174.48E	19	2.3	0.2	18	13
13543	OCT 06	1323 57.7	41.00S	174.46E	13	2.4	0.3	19	14
13562	OCT 07	0019 44.5	40.93S	174.81E	50	3.6	0.2	46	33
13565	OCT 07	0214 56.0	40.93S	175.07E	32	2.4	0.2	15	11
13567	OCT 07	0232 18.2	41.21S	174.58E	34	2.5	0.2	14	12
13571	OCT 07	0657 19.3	41.46S	174.35E	18	2.1	0.2	11	6
13573	OCT 07	0923 22.4	41.73S	174.24E	15	2.6	0.3	17	12
13577	OCT 07	1100 22.0	41.59S	174.65E	28	2.3	0.1	12	9
13578	OCT 07	1113 32.2	40.71S	174.80E	15	2.9	0.2	30	24
13582	OCT 07	1337 41.4	41.17S	173.76E	53	2.2	0.1	13	9
13588	OCT 07	1746 45.6	40.69S	175.80E	29	2.9	0.3	18	15
13594	OCT 07	2229 36.2	41.31S	174.57E	41	3.0	0.2	26	20
13595	OCT 07	2256 24.0	41.29S	175.29E	28	2.2	0.1	11	8
13599	OCT 08	0144 39.8	41.67S	174.20E	5R	2.4	0.2	23	15
13629	OCT 08	0813 8.8	41.31S	174.70E	26	3.2	0.3	28	22
13632	OCT 08	1003 53.5	41.35S	174.41E	35	2.9	0.2	24	18
13661	OCT 08	1927 34.7	40.98S	174.46E	5R	4.8F	0.2	58	41
13666	OCT 08	2233 54.9	41.64S	174.55E	48	3.1	0.2	29	21
13667	OCT 08	2353 12.0	40.93S	174.46E	12R	2.1	0.2	9	6
13677	OCT 09	0656 32.1	41.35S	175.40E	15	2.0	0.1	7	5
13680	OCT 09	1047 40.8	41.00S	174.15E	65	2.1	0.2	7	6
13681	OCT 09	1129 51.9	41.60S	174.52E	32	2.1	0.2	7	6
13688	OCT 09	1304 26.0	41.05S	174.88E	5R	2.8F	0.2	26	19
13690	OCT 09	1319 10.1	41.77S	174.66E	12R	2.1	0.2	9	6
13696	OCT 09	1728 45.8	41.58S	173.68E	45	2.2	0.2	9	6
13704	OCT 09	2201 49.8	41.42S	174.23E	34	2.2	0.2	10	8
13706	OCT 10	0247 40.5	41.78S	174.43E	34	2.6	0.1	10	7
13710	OCT 10	0522 24.5	41.80S	174.05E	32	2.3	0.1	9	5
13714	OCT 10	0910 45.9	41.92S	174.11E	5R	2.8	0.2	21	15
13715	OCT 10	1003 32.1	41.15S	175.04E	24	2.5	0.1	8	5
13718	OCT 10	1334 53.3	41.28S	175.24E	28	2.2	0.1	8	7
13726	OCT 10	1935 18.5	40.85S	175.63E	21	2.4	0.2	9	8
13727	OCT 10	2110 10.5	40.97S	175.24E	29	2.5	0.1	10	7
13732	OCT 11	0355 45.2	40.69S	174.94E	40	2.4	0.1	7	5
13737	OCT 11	0632 46.0	40.89S	174.94E	52	2.0	0.0	6	4
13745	OCT 11	1036 42.2	41.68S	173.94E	12R	2.5	0.2	11	8
13750	OCT 11	1313 49.2	41.27S	175.21E	11	2.0	0.1	6	5
13752	OCT 11	1342 48.8	41.17S	174.75E	31	2.1	0.1	8	6
13753	OCT 11	1426 35.2	40.80S	175.11E	29	2.7	0.2	18	14
13755	OCT 11	1507 56.4	41.73S	173.88E	5R	2.3	0.2	13	8
13757	OCT 11	1620 56.5	41.74S	173.88E	5R	2.5	0.2	17	12
13762	OCT 11	2300 25.8	40.85S	175.94E	21	2.8	0.2	15	12
13764	OCT 12	0107 25.0	40.92S	175.25E	24	2.6	0.3	17	12
13769	OCT 12	0423 55.0	41.76S	173.89E	10	2.2	0.2	17	11

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
13770	OCT 12	0538 31.9	40.92S	175.25E	24	2.4	0.2	15	12
13777	OCT 12	1013 27.2	41.93S	174.11E	12R	2.6	0.4	23	18
13779	OCT 12	1155 39.3	41.75S	173.90E	11	3.4	0.4	36	24
13784	OCT 12	1421 38.9	41.63S	174.37E	12R	2.2	0.3	19	13
13796	OCT 12	1712 56.4	41.75S	173.89E	11	3.3	0.3	31	22
13797	OCT 12	1718 59.3	41.75S	173.89E	10	2.6	0.3	26	19
13810	OCT 12	2110 53.8	41.90S	174.09E	12R	2.5	0.3	10	7
13813	OCT 13	0232 12.0	41.94S	173.96E	12R	2.2	0.2	14	10
13829	OCT 13	1036 18.9	41.80S	173.93E	14	2.1	0.3	9	7
13840	OCT 13	1602 23.1	40.71S	174.84E	13	2.0	0.2	12	9
13853	OCT 14	0438 28.5	41.61S	174.17E	12R	2.2	0.2	7	4
13859	OCT 14	1328 17.5	41.13S	174.49E	59	2.2	0.1	11	7
13861	OCT 14	1413 23.4	41.03S	174.03E	52	2.7	0.3	19	12
13870	OCT 14	2114 45.4	40.87S	175.20E	23	2.4	0.2	15	12
13871	OCT 14	2135 42.5	40.78S	173.82E	65	2.7	0.4	18	13
13881	OCT 15	0453 38.2	40.53S	173.54E	12R	2.8	0.3	24	18
13906	OCT 15	2113 4.8	40.72S	174.74E	37	2.1	0.1	10	7
13910	OCT 15	2355 12.9	41.67S	174.28E	5R	2.7	0.3	27	18
13913	OCT 16	0123 32.6	41.30S	173.71E	74	3.8	0.3	36	23
13915	OCT 16	0304 4.1	41.75S	173.87E	10	2.4	0.2	19	13
13918	OCT 16	0504 1.1	41.12S	174.47E	40	3.0	0.1	20	14
13919	OCT 16	0616 54.4	40.82S	175.70E	45	2.2	0.2	7	5
13921	OCT 16	0732 28.7	40.52S	174.93E	27	2.3	0.1	8	6
13924	OCT 16	1026 21.0	40.62S	174.20E	57	2.9	0.3	21	16
13928	OCT 16	1156 4.5	41.57S	175.11E	25	2.3	0.1	14	9
13931	OCT 16	1259 0.9	41.25S	174.83E	52	2.2	0.1	13	9
13943	OCT 16	2102 36.1	40.61S	174.05E	82	3.7	0.3	46	34
13957	OCT 17	0648 50.2	41.09S	175.05E	26	2.3	0.1	12	9
13979	OCT 17	2008 26.9	41.01S	173.79E	62	2.4	0.3	14	10
13984	OCT 17	2140 1.0	41.14S	175.10E	10	2.0	0.2	10	8
13992	OCT 18	0124 17.4	41.34S	175.13E	25	2.1	0.1	10	8
13999	OCT 18	0626 1.5	40.51S	174.75E	24	2.3	0.1	11	8
14000	OCT 18	0751 58.1	41.59S	174.66E	29	2.1	0.2	11	9
14001	OCT 18	0759 7.9	41.59S	174.41E	5R	2.1	0.2	15	13
14009	OCT 18	1046 42.6	41.27S	174.96E	25	2.0	0.1	8	6
14013	OCT 18	1251 25.0	41.42S	174.99E	21	2.0	0.2	9	7
14014	OCT 18	1347 18.6	41.97S	173.87E	31	2.3	0.2	9	6
14018	OCT 18	1427 4.7	41.07S	174.92E	35	2.8F	0.2	27	23
14035	OCT 18	2311 3.7	41.60S	174.25E	12R	2.1	0.2	13	8
14038	OCT 19	0034 4.7	41.68S	174.13E	9	2.5	0.3	24	16
14045	OCT 19	0257 42.3	41.61S	173.83E	33R	2.7	0.4	5	4
14055	OCT 19	1040 30.1	41.87S	174.18E	12R	2.5	0.4	22	15
14057	OCT 19	1119 30.2	41.91S	174.20E	5R	2.2	0.3	9	6
14059	OCT 19	1235 22.2	41.99S	173.94E	12R	2.2	0.2	12	8
14061	OCT 19	1310 24.0	40.61S	174.41E	5R	2.5	0.3	10	8

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
14063	OCT 19	1737 8.5	41.09S	175.04E	27	2.2	0.2	12	9
14073	OCT 19	2234 21.9	41.77S	174.34E	29	3.2	0.3	30	20
14081	OCT 20	0438 13.7	41.61S	174.43E	12R	2.0	0.2	7	6
14091	OCT 20	1403 7.2	40.73S	174.24E	63	2.6	0.2	13	9
14099	OCT 20	2126 25.1	41.43S	173.52E	86	2.8	0.3	21	13
14100	OCT 20	2145 58.5	40.92S	174.78E	5R	2.1	0.1	12	7
14102	OCT 20	2236 15.2	41.71S	174.12E	9	2.4	0.3	17	13
14148	OCT 21	0351 55.8	40.52S	176.00E	30	2.6	0.2	15	12
14166	OCT 21	0602 27.1	40.91S	174.78E	9	2.6	0.2	14	10
14167	OCT 21	0603 5.6	40.91S	174.80E	12	2.0	0.1	8	6
14170	OCT 21	0618 51.9	41.39S	174.60E	29	2.8	0.2	28	19
14186	OCT 21	0827 15.3	41.27S	173.52E	90	2.1	0.3	7	4
14243	OCT 21	2043 53.3	41.58S	174.39E	8	2.5	0.3	26	17
14244	OCT 21	2044 1.5	41.59S	174.41E	12	3.5	0.3	32	21
14245	OCT 21	2044 27.5	41.52S	174.39E	12R	2.4	0.2	7	5
14248	OCT 21	2102 44.4	41.60S	174.40E	12R	2.3	0.1	10	7
14250	OCT 21	2110 33.0	41.59S	174.41E	9	3.7	0.3	31	22
14251	OCT 21	2112 37.3	41.59S	174.40E	21	2.1	0.3	8	5
14252	OCT 21	2113 21.7	41.59S	174.40E	22	2.2	0.1	12	8
14253	OCT 21	2113 58.9	41.59S	174.41E	9	2.7	0.3	26	20
14254	OCT 21	2116 53.0	41.59S	174.40E	17	2.1	0.2	14	9
14255	OCT 21	2118 1.1	41.58S	174.40E	12	2.6	0.3	19	14
14256	OCT 21	2119 14.3	41.59S	174.43E	12R	3.3	0.3	32	23
14258	OCT 21	2121 58.5	41.60S	174.41E	12R	2.7	0.2	11	8
14259	OCT 21	2123 25.4	41.56S	174.39E	26	2.2	0.3	12	9
14262	OCT 21	2131 8.5	41.58S	174.41E	12R	2.0	0.2	11	8
14263	OCT 21	2135 14.4	41.59S	174.41E	9	2.9	0.3	30	21
14264	OCT 21	2135 28.3	41.53S	174.32E	12R	2.7	0.2	10	6
14265	OCT 21	2135 38.6	41.59S	174.42E	12R	2.7	0.2	7	4
14266	OCT 21	2136 43.9	41.59S	174.40E	9	3.6	0.2	30	24
14267	OCT 21	2138 57.9	41.59S	174.41E	9	2.4	0.2	15	13
14268	OCT 21	2139 10.5	41.57S	174.40E	12R	2.6	0.4	18	15
14269	OCT 21	2146 7.6	41.59S	174.41E	12R	2.4	0.3	18	13
14270	OCT 21	2152 12.3	41.58S	174.41E	8	2.4	0.3	25	16
14272	OCT 21	2213 58.7	41.58S	174.41E	12R	2.0	0.3	14	9
14273	OCT 21	2223 2.8	41.59S	174.41E	14	2.2	0.2	14	10
14274	OCT 21	2229 3.3	41.57S	174.41E	11	2.5	0.3	26	19
14276	OCT 21	2231 32.2	41.60S	174.42E	10	3.2	0.3	33	23
14277	OCT 21	2241 48.9	41.57S	174.41E	12R	2.0	0.3	14	10
14283	OCT 21	2329 33.3	41.59S	174.40E	11	3.2	0.2	27	23
14285	OCT 22	0027 22.4	41.57S	174.12E	19	2.4	0.1	13	9
14290	OCT 22	0203 28.3	41.59S	174.40E	11	4.8F	0.2	38	29
14291	OCT 22	0204 33.4	41.60S	174.39E	6	3.8	0.2	22	16
14292	OCT 22	0204 55.6	41.65S	174.37E	25	3.3	0.2	14	11
14293	OCT 22	0206 9.0	41.57S	174.40E	14	2.6	0.3	18	13

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
14294	OCT 22	0206 59.8	41.59S	174.40E	5R	4.3F	0.3	35	25
14295	OCT 22	0208 5.4	41.61S	174.40E	12R	2.8	0.3	7	4
14296	OCT 22	0208 29.6	41.64S	174.41E	12R	2.7	0.2	7	5
14297	OCT 22	0209 19.6	41.58S	174.39E	12R	2.7	0.3	16	12
14298	OCT 22	0210 13.7	41.59S	174.42E	12R	2.1	0.2	9	7
14299	OCT 22	0211 11.5	41.62S	174.38E	18	2.6	0.3	19	16
14300	OCT 22	0212 9.6	41.58S	174.41E	10	2.2	0.3	18	16
14301	OCT 22	0212 20.5	41.58S	174.40E	10	2.8	0.3	23	19
14302	OCT 22	0214 18.9	40.64S	176.00E	25	3.3	0.3	26	19
14303	OCT 22	0214 20.1	41.57S	174.39E	22	2.4	0.2	12	9
14305	OCT 22	0217 55.9	41.59S	174.40E	11	2.3	0.3	18	13
14308	OCT 22	0225 16.2	41.60S	174.41E	9	3.1	0.3	25	21
14309	OCT 22	0226 13.5	41.59S	174.42E	11	3.4	0.3	27	23
14310	OCT 22	0229 7.4	41.60S	174.41E	5R	2.4	0.2	18	14
14311	OCT 22	0229 37.5	41.56S	174.40E	12R	2.3	0.3	18	16
14312	OCT 22	0229 42.4	41.59S	174.42E	5R	2.9	0.3	25	20
14313	OCT 22	0230 11.8	41.59S	174.43E	5R	2.4	0.3	17	13
14314	OCT 22	0231 14.8	41.58S	174.42E	10	3.7	0.3	32	22
14315	OCT 22	0232 39.4	41.58S	174.41E	10	2.9	0.3	28	21
14317	OCT 22	0233 33.1	41.59S	174.40E	9	3.0	0.3	26	19
14318	OCT 22	0240 6.8	41.58S	174.40E	14	2.2	0.2	17	11
14324	OCT 22	0303 36.2	41.59S	174.42E	8	2.5	0.3	24	17
14325	OCT 22	0305 18.0	41.57S	174.40E	11	2.5	0.3	19	16
14326	OCT 22	0310 16.4	41.58S	174.40E	14	2.2	0.2	13	10
14327	OCT 22	0323 33.6	41.59S	174.40E	10	2.7	0.3	23	18
14330	OCT 22	0347 45.1	41.59S	174.40E	13	2.2	0.2	16	11
14331	OCT 22	0353 29.7	40.64S	175.99E	29	3.1	0.3	26	20
14333	OCT 22	0358 9.3	41.57S	174.40E	19	2.4	0.3	17	13
14336	OCT 22	0412 13.1	41.59S	174.40E	11	2.4	0.3	17	12
14339	OCT 22	0444 11.2	41.58S	174.40E	10	2.1	0.3	19	14
14342	OCT 22	0505 59.3	41.58S	174.39E	14	2.2	0.3	17	13
14343	OCT 22	0510 23.1	41.59S	174.39E	12R	2.1	0.3	17	12
14344	OCT 22	0527 7.0	41.59S	174.40E	14	2.4	0.2	17	11
14345	OCT 22	0528 27.1	41.57S	174.39E	12R	2.3	0.3	18	13
14346	OCT 22	0528 50.1	41.58S	174.41E	10	2.8	0.3	24	18
14348	OCT 22	0546 45.4	41.59S	174.41E	5R	2.1	0.3	12	9
14363	OCT 22	1000 43.3	41.60S	174.42E	5R	2.7	0.3	26	18
14365	OCT 22	1019 37.8	41.01S	173.77E	62	3.0	0.3	29	21
14372	OCT 22	1206 17.0	41.61S	174.41E	5R	2.2	0.2	14	11
14383	OCT 22	1705 34.9	41.57S	174.43E	5R	2.1	0.3	13	10
14388	OCT 22	1749 7.7	41.41S	175.00E	23	2.3	0.1	8	7
14393	OCT 22	1936 30.1	41.14S	174.17E	46	2.4	0.2	14	11
14394	OCT 22	2015 31.2	41.09S	174.77E	56	2.1	0.1	9	8
14397	OCT 22	2116 45.3	41.60S	174.41E	5R	2.0	0.2	12	11
14398	OCT 22	2137 5.1	41.68S	174.30E	10	2.3	0.2	11	9

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14404	OCT 23	0351 10.1	41.60S	174.41E	18	2.1	0.2	10	7
14406	OCT 23	0430 57.5	41.59S	174.40E	14	2.4	0.3	20	13
14410	OCT 23	0639 51.2	41.60S	174.38E	17	2.3	0.1	10	7
14411	OCT 23	0639 55.7	41.53S	174.25E	12R	2.2	0.2	5	5
14412	OCT 23	0904 7.0	41.60S	174.39E	14	2.2	0.3	13	10
14416	OCT 23	0950 26.0	40.69S	174.36E	59	2.7	0.1	11	9
14435	OCT 23	1557 44.2	40.73S	175.45E	33R	2.2	0.2	7	6
14437	OCT 23	1701 3.1	41.59S	174.39E	12R	2.3	0.3	14	11
14440	OCT 23	1818 18.8	41.61S	174.40E	12R	2.1	0.1	6	6
14449	OCT 23	2014 14.4	41.60S	174.41E	17	2.1	0.2	10	6
14459	OCT 24	0224 49.7	41.58S	174.39E	17	2.2	0.2	12	9
14461	OCT 24	0304 20.0	41.59S	174.39E	14	2.4	0.1	15	10
14462	OCT 24	0401 16.5	41.52S	174.40E	17	2.5	0.1	22	16
14466	OCT 24	0527 42.7	41.66S	174.19E	28	2.3	0.1	12	8
14470	OCT 24	0809 31.7	40.57S	175.05E	43	2.4	0.1	9	6
14474	OCT 24	0920 26.1	41.58S	174.40E	8	3.6	0.2	27	21
14475	OCT 24	0921 47.3	41.58S	174.40E	12R	2.8	0.3	28	20
14476	OCT 24	0922 4.7	41.59S	174.44E	12R	2.4	0.2	6	3
14477	OCT 24	0922 18.4	41.58S	174.40E	12	3.4	0.2	30	21
14479	OCT 24	0939 1.8	41.59S	174.41E	10	2.6	0.3	21	17
14480	OCT 24	0956 29.9	41.57S	174.39E	15	2.2	0.2	16	12
14484	OCT 24	1123 39.4	40.93S	173.73E	59	2.2	0.3	10	8
14485	OCT 24	1136 9.4	41.59S	174.41E	9	2.8	0.3	25	19
14489	OCT 24	1251 21.4	41.59S	174.41E	10	3.0	0.3	30	21
14490	OCT 24	1308 52.2	41.57S	174.39E	16	2.5	0.2	17	13
14491	OCT 24	1315 47.5	41.57S	174.39E	15	2.5	0.2	24	16
14494	OCT 24	1435 55.3	41.58S	174.41E	10	4.1	0.2	33	22
14495	OCT 24	1436 30.0	41.57S	174.38E	18	3.3	0.2	14	10
14496	OCT 24	1440 18.0	41.59S	174.41E	11	2.4	0.3	21	17
14498	OCT 24	1449 25.2	41.58S	174.41E	9	2.7	0.3	25	20
14500	OCT 24	1517 8.0	41.01S	175.42E	27	2.2	0.1	10	8
14502	OCT 24	1644 25.7	41.58S	174.39E	13	2.1	0.3	16	12
14506	OCT 24	1806 15.4	41.59S	174.41E	12R	2.1	0.3	9	8
14507	OCT 24	1806 33.6	41.59S	174.42E	12R	2.1	0.3	9	7
14512	OCT 24	2007 18.5	41.58S	174.40E	13	2.5	0.2	20	15
14514	OCT 24	2020 24.3	41.59S	174.40E	13	2.0	0.2	13	10
14516	OCT 24	2023 31.9	41.57S	174.40E	15	2.4	0.3	23	15
14519	OCT 24	2222 34.9	41.75S	174.33E	10	2.1	0.3	16	11
14520	OCT 24	2247 29.9	40.64S	174.26E	50	2.7	0.3	17	11
14525	OCT 25	0303 59.8	41.70S	174.17E	11	2.4	0.2	20	14
14537	OCT 25	0751 43.4	41.87S	173.97E	12R	2.3	0.2	8	6
14546	OCT 25	1057 2.7	41.60S	174.40E	13	2.4	0.2	14	11
14559	OCT 25	2040 7.1	40.57S	175.17E	32	2.3	0.1	10	8
14560	OCT 25	2104 31.3	41.07S	175.52E	26	2.6	0.1	16	11
14587	OCT 26	0314 27.3	40.51S	174.03E	69	2.8	0.3	30	21

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
14589	OCT 26	0434 11.8	40.73S	174.99E	34	2.5	0.2	17	13
14601	OCT 26	0801 12.4	41.16S	175.74E	21	2.1	0.2	11	8
14602	OCT 26	0812 27.9	41.18S	175.73E	18	2.3	0.1	11	8
14614	OCT 26	1109 13.4	41.59S	174.42E	11	2.3	0.2	15	11
14619	OCT 26	1252 14.4	41.88S	173.99E	12R	2.5	0.2	11	9
14635	OCT 26	1956 18.2	41.43S	174.57E	28	2.0	0.2	8	6
14646	OCT 26	2351 24.4	40.72S	175.77E	30	2.1	0.1	7	6
14652	OCT 27	0141 28.5	41.97S	174.71E	29	2.9	0.2	26	20
14682	OCT 27	1307 21.4	41.80S	173.58E	44	2.5	0.2	17	11
14685	OCT 27	1339 55.9	41.89S	174.46E	27	2.8	0.2	26	19
14690	OCT 27	1639 38.3	41.56S	174.36E	15	2.4	0.2	14	10
14693	OCT 27	1730 54.7	40.87S	175.41E	26	2.1	0.2	12	9
14695	OCT 27	1753 52.9	41.60S	174.41E	10	2.4	0.3	24	18
14698	OCT 27	1913 4.1	40.68S	174.96E	32	2.1	0.2	8	6
14700	OCT 27	1933 14.5	40.95S	174.95E	34	2.3	0.2	13	10
14715	OCT 28	0236 12.5	41.59S	174.12E	13	2.6	0.3	30	20
14718	OCT 28	0401 54.4	41.34S	175.06E	25	2.0	0.1	12	10
14719	OCT 28	0445 52.2	40.97S	174.18E	58	3.7	0.2	43	32
14720	OCT 28	0501 3.0	40.73S	175.34E	32	2.4	0.1	8	6
14723	OCT 28	0540 15.7	41.86S	173.96E	22	2.3	0.2	14	9
14727	OCT 28	0645 3.7	41.88S	173.96E	25	2.5	0.3	19	12
14739	OCT 28	1130 19.0	41.71S	174.10E	14	2.3	0.2	14	10
14742	OCT 28	1358 23.8	41.23S	175.07E	13	2.2	0.1	13	10
14751	OCT 28	2309 8.9	40.97S	175.56E	28	2.5	0.1	12	8
14753	OCT 29	0021 18.8	41.58S	174.40E	19	2.1	0.1	13	8
14754	OCT 29	0036 54.3	40.63S	173.69E	170	2.7	0.3	9	7
14755	OCT 29	0041 2.1	40.71S	175.10E	17	2.3	0.3	10	8
14760	OCT 29	0418 2.9	40.65S	173.63E	141	2.8	0.2	10	8
14762	OCT 29	0548 58.5	41.77S	174.53E	31	2.9	0.2	24	18
14763	OCT 29	0557 48.7	41.68S	173.91E	12	2.8	0.3	22	17
14769	OCT 29	0830 33.3	41.09S	174.74E	54	2.4	0.1	13	10
14770	OCT 29	0845 25.6	41.52S	173.68E	58	2.8	0.3	25	16
14798	OCT 29	2116 32.8	40.97S	174.17E	49	2.3	0.2	16	10
14803	OCT 29	2328 3.6	41.62S	173.70E	50	2.8	0.3	21	14
14806	OCT 30	0227 36.7	41.27S	174.37E	36	2.4	0.1	15	12
14815	OCT 30	0730 12.8	41.76S	173.85E	13	2.6	0.2	20	14
14823	OCT 30	1341 7.4	40.78S	174.06E	58	2.9	0.4	25	16
14828	OCT 30	1622 42.2	41.61S	174.15E	14	2.5	0.2	14	10
14832	OCT 30	2120 57.3	41.29S	173.86E	57	2.3	0.2	12	9
14845	OCT 31	0856 49.5	41.12S	174.60E	33	2.2	0.2	12	10
14857	OCT 31	1553 44.7	41.74S	174.52E	30	2.8	0.2	18	14
14865	OCT 31	2150 49.4	41.52S	173.65E	52	2.6	0.3	20	13
14877	NOV 01	0645 10.7	40.53S	175.79E	28	2.5	0.2	8	7
14886	NOV 01	1511 8.9	41.18S	174.48E	35	2.9	0.2	23	17
14888	NOV 01	1631 29.5	41.17S	175.19E	28	2.1	0.0	5	4

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
14890	NOV 01	1804 55.1	40.64S	175.54E	32	3.0	0.3	11	8
14913	NOV 02	0050 27.4	41.41S	175.01E	22	2.4	0.1	8	6
14916	NOV 02	0150 54.9	41.03S	174.44E	63	2.2	0.1	8	6
14918	NOV 02	0236 39.0	41.02S	174.68E	33R	2.7	0.3	8	7
14920	NOV 02	0246 18.4	41.60S	174.40E	10	2.5	0.2	16	13
14925	NOV 02	0506 33.2	41.19S	174.57E	34	4.9F	0.2	47	42
14926	NOV 02	0508 52.6	41.17S	174.56E	33R	2.3	0.2	8	6
14927	NOV 02	0510 32.7	41.23S	174.60E	36	2.2	0.2	10	6
14928	NOV 02	0510 55.2	41.16S	174.56E	32	2.2	0.2	9	6
14929	NOV 02	0511 3.2	41.21S	174.57E	32	2.1	0.3	11	7
14930	NOV 02	0512 55.1	41.19S	174.57E	34	3.6	0.2	24	21
14932	NOV 02	0521 23.4	41.16S	174.57E	35	2.2	0.1	10	7
14935	NOV 02	0541 37.9	41.18S	174.58E	34	3.2	0.3	23	19
14936	NOV 02	0545 42.2	41.19S	174.56E	33	3.0	0.3	24	20
14937	NOV 02	0551 15.9	41.18S	174.56E	36	2.0	0.1	7	5
14940	NOV 02	0642 25.1	41.60S	174.39E	12R	2.3	0.2	18	12
14941	NOV 02	0650 37.5	41.60S	174.40E	8	2.2	0.2	12	10
14943	NOV 02	0716 51.0	41.17S	174.59E	31	2.4	0.3	9	8
14944	NOV 02	0733 14.5	41.02S	174.18E	47	2.6	0.3	15	13
14947	NOV 02	0751 53.4	41.18S	174.56E	36	2.0	0.1	7	5
14949	NOV 02	0829 35.2	41.17S	174.55E	34	2.4	0.1	14	11
14954	NOV 02	1027 5.8	41.18S	175.00E	29	2.4	0.0	5	3
14958	NOV 02	1134 23.5	41.63S	174.60E	31	2.5	0.1	11	9
14961	NOV 02	1231 58.2	41.16S	174.58E	31	2.6	0.2	20	16
14967	NOV 02	1307 42.2	41.16S	174.57E	31	2.4	0.1	11	9
14974	NOV 02	1350 16.3	40.68S	174.38E	46	2.2	0.1	10	7
14982	NOV 02	1547 2.0	41.19S	174.55E	34	2.5	0.2	22	15
14984	NOV 02	1648 37.0	41.94S	173.91E	29	2.6	0.3	17	10
14987	NOV 02	1708 17.7	41.19S	174.56E	34	2.7	0.1	18	15
14988	NOV 02	1745 52.2	41.18S	174.58E	32	3.2	0.2	23	19
14989	NOV 02	1749 14.4	41.17S	173.54E	33R	2.3	0.3	6	3
14992	NOV 02	2048 38.6	41.60S	174.41E	9	2.6	0.2	20	16
14996	NOV 02	2138 38.2	41.18S	174.57E	33	3.0	0.2	22	18
15007	NOV 03	0118 15.5	40.51S	174.75E	23	2.6	0.2	14	10
15010	NOV 03	0334 33.8	40.59S	174.59E	66	2.8	0.2	12	7
15013	NOV 03	0522 47.3	41.89S	174.67E	32	2.1	0.2	9	8
15027	NOV 03	1026 54.6	41.18S	174.57E	32	3.2	0.3	28	21
15043	NOV 03	2229 40.8	41.19S	174.56E	35	2.3	0.1	13	8
15046	NOV 04	0030 25.4	41.42S	174.58E	20	2.5	0.3	17	13
15050	NOV 04	0306 39.0	41.17S	174.56E	32	3.1	0.2	25	20
15059	NOV 04	0817 16.1	41.19S	174.55E	36	2.5	0.1	19	13
15070	NOV 04	1416 18.6	40.73S	173.92E	60	2.2	0.2	12	9
15077	NOV 04	1912 31.2	40.93S	173.72E	78	3.2	0.3	24	17
15078	NOV 04	1925 53.2	40.98S	175.44E	15	2.8	0.2	18	13
15089	NOV 05	0122 45.5	40.80S	174.58E	44	2.5	0.2	12	9

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
15112	NOV 05	1323 59.7	41.18S	174.56E	35	2.3	0.1	14	12
15114	NOV 05	1432 18.1	40.88S	175.06E	32	2.4	0.1	14	12
15117	NOV 05	1728 59.3	41.96S	173.96E	13	3.3	0.3	23	18
15118	NOV 05	1729 27.8	41.97S	173.95E	16	3.5	0.3	24	18
15119	NOV 05	1732 10.3	41.95S	173.95E	10	2.7	0.2	20	15
15120	NOV 05	1832 42.6	41.98S	173.97E	10	2.7	0.2	20	14
15121	NOV 05	1835 2.2	41.12S	173.96E	43	2.8	0.3	18	13
15122	NOV 05	1837 6.7	41.15S	173.91E	52	2.1	0.2	9	6
15123	NOV 05	1847 38.4	41.14S	173.97E	52	2.9	0.2	26	17
15142	NOV 06	0447 11.7	41.29S	174.86E	18	2.1	0.1	14	11
15144	NOV 06	0553 19.4	41.08S	175.61E	13	2.2	0.2	14	9
15147	NOV 06	0645 44.4	41.72S	174.30E	30	2.5	0.1	18	12
15152	NOV 06	1048 51.5	41.42S	174.97E	24	2.0	0.1	13	11
15155	NOV 06	1345 42.2	40.59S	175.72E	32	2.3	0.2	7	6
15163	NOV 06	1800 58.3	41.79S	174.16E	29	2.5	0.3	19	14
15177	NOV 06	2355 43.9	41.41S	173.75E	55	3.1	0.3	24	18
15182	NOV 07	0212 22.5	41.13S	174.72E	35	2.3	0.1	12	10
15189	NOV 07	0539 26.6	41.57S	174.39E	15	2.1	0.2	19	13
15190	NOV 07	0547 24.8	40.51S	174.00E	96	2.7	0.3	15	11
15205	NOV 07	0847 2.5	41.80S	173.80E	10	2.2	0.1	14	10
15209	NOV 07	1119 34.0	41.82S	174.16E	12R	2.2	0.4	10	7
15210	NOV 07	1156 10.2	41.00S	174.73E	33	2.4	0.1	12	8
15222	NOV 07	1540 4.2	41.98S	173.96E	12R	2.1	0.3	10	6
15229	NOV 07	1945 41.7	40.89S	175.77E	31	2.1	0.2	9	7
15236	NOV 07	2139 51.8	40.51S	174.34E	82	2.4	0.2	12	9
15237	NOV 07	2208 8.5	41.23S	173.91E	49	2.5	0.2	23	15
15252	NOV 08	0811 45.2	41.59S	174.40E	8	2.5	0.2	25	19
15267	NOV 08	1619 17.5	41.01S	175.44E	28	2.3	0.1	11	8
15273	NOV 08	1730 43.7	41.60S	174.15E	12	2.5	0.2	20	15
15274	NOV 08	1732 40.2	41.29S	173.71E	60	2.6	0.3	19	13
15277	NOV 08	1921 56.9	41.60S	174.23E	20	2.1	0.1	8	5
15280	NOV 08	2059 42.5	41.31S	173.60E	67	2.6	0.2	15	9
15281	NOV 08	2135 26.7	41.73S	174.28E	12	2.1	0.2	14	10
15283	NOV 08	2155 13.7	41.22S	175.40E	19	2.4	0.1	14	10
15310	NOV 09	1148 24.1	40.69S	174.67E	78	4.8F	0.2	62	49
15336	NOV 09	1738 31.0	41.28S	175.29E	26	2.3	0.1	11	8
15346	NOV 09	2215 53.3	41.05S	174.37E	64	2.6	0.2	19	15
15347	NOV 09	2300 52.3	40.72S	174.25E	70	2.2	0.3	9	6
15357	NOV 10	0323 28.0	41.22S	175.38E	17	2.0	0.1	11	7
15360	NOV 10	0504 43.3	41.01S	174.96E	27	2.1	0.2	10	8
15390	NOV 10	1835 17.9	41.64S	174.56E	24	2.2	0.1	11	9
15393	NOV 10	2117 27.6	41.17S	174.56E	32	2.3	0.2	14	11
15395	NOV 10	2227 55.7	40.56S	174.71E	46	2.3	0.1	6	4
15399	NOV 11	0011 32.6	40.91S	173.78E	76	2.4	0.2	11	8
15401	NOV 11	0125 23.2	40.84S	175.21E	35	2.1	0.1	6	5

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15410	NOV 11	1031 26.8	40.85S	175.87E	29	2.1	0.2	8	6
15414	NOV 11	1154 16.2	41.01S	174.17E	49	2.1	0.1	11	8
15426	NOV 11	1642 6.6	41.25S	175.33E	28	2.5	0.1	16	10
15461	NOV 12	1314 31.8	41.80S	174.51E	40	2.4	0.2	20	14
15465	NOV 12	1402 26.3	40.98S	175.34E	25	2.4	0.1	10	7
15480	NOV 12	2359 18.7	41.60S	174.39E	9	3.1	0.2	26	20
15488	NOV 13	0536 3.1	41.74S	173.78E	13	3.4	0.3	31	22
15490	NOV 13	0745 60.0	41.59S	174.06E	14	2.5	0.2	16	11
15506	NOV 13	2155 53.7	40.99S	175.65E	31	2.2	0.1	10	8
15516	NOV 14	0532 13.3	41.74S	173.79E	14	4.1F	0.3	34	23
15527	NOV 14	1303 3.8	40.73S	173.68E	95	2.6	0.2	12	8
15535	NOV 14	2007 6.7	41.00S	174.71E	59	2.4	0.1	6	4
15537	NOV 14	2106 36.3	41.73S	173.73E	14	2.4	0.3	18	12
15548	NOV 15	0756 22.3	41.69S	174.22E	27	3.0	0.3	33	22
15550	NOV 15	0903 27.1	40.67S	174.59E	75	2.5	0.1	13	11
15556	NOV 15	1226 24.8	41.00S	175.43E	26	2.0	0.1	11	8
15562	NOV 15	1437 30.9	41.39S	174.73E	54	3.0	0.2	23	17
15569	NOV 15	1808 2.0	40.93S	175.55E	29	2.3	0.1	13	10
15571	NOV 15	1838 7.0	40.93S	174.66E	63	2.4	0.1	9	7
15574	NOV 15	2159 21.0	40.96S	174.70E	34	3.0	0.2	28	22
15576	NOV 16	0040 58.0	41.16S	174.55E	34	2.3	0.1	13	11
15584	NOV 16	0722 39.5	41.10S	174.03E	54	2.2	0.3	10	7
15589	NOV 16	1016 53.6	40.95S	175.20E	29	2.7	0.2	16	11
15597	NOV 16	1506 6.9	40.84S	175.91E	30	2.6	0.2	15	10
15598	NOV 16	1535 35.8	40.52S	173.56E	140	2.9	0.3	19	16
15599	NOV 16	1813 30.5	40.55S	174.09E	83	2.3	0.3	12	7
15603	NOV 16	1919 23.3	41.89S	174.20E	12R	2.0	0.3	5	3
15607	NOV 16	2044 14.2	41.05S	174.55E	62	2.4	0.1	14	9
15614	NOV 17	0041 44.1	41.85S	174.14E	5R	2.3	0.2	14	10
15616	NOV 17	0111 17.8	41.16S	174.57E	33	2.1	0.1	12	10
15623	NOV 17	0434 7.6	40.99S	175.08E	31	2.2	0.1	9	7
15632	NOV 17	0733 38.1	41.70S	174.14E	14	2.4	0.3	12	9
15646	NOV 17	1352 14.5	41.72S	173.73E	9	2.4	0.3	20	14
15656	NOV 17	2141 2.2	41.83S	174.12E	13	2.1	0.2	10	7
15659	NOV 18	0118 41.9	41.47S	173.52E	71	3.5	0.3	30	22
15666	NOV 18	0823 39.9	41.35S	174.85E	44	2.3	0.1	10	9
15680	NOV 18	1620 46.5	40.95S	175.19E	32	2.3	0.1	9	7
15704	NOV 19	1956 19.9	41.21S	175.39E	16	2.1	0.1	14	10
15708	NOV 20	0044 52.9	41.50S	174.91E	29	2.4	0.2	17	13
15722	NOV 20	0829 31.2	41.38S	174.58E	30	2.6	0.2	26	18
15733	NOV 20	1353 17.0	41.86S	174.44E	24	2.3	0.2	13	10
15738	NOV 20	1525 6.1	41.09S	174.77E	53	2.6	0.1	18	14
15740	NOV 20	1625 36.7	41.49S	173.52E	69	2.9	0.3	25	18
15752	NOV 21	0626 37.7	41.53S	174.16E	34	2.7	0.3	22	15
15754	NOV 21	0810 15.0	41.70S	174.00E	40	2.3	0.3	12	9

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15755	NOV 21	0955 58.2	41.16S	174.54E	34	2.3	0.2	14	12
15757	NOV 21	1049 27.5	41.18S	174.18E	67	3.1	0.2	30	22
15766	NOV 21	1625 1.8	40.92S	174.88E	50	2.2	0.1	10	8
15769	NOV 21	1724 15.1	40.97S	175.63E	23	2.0	0.3	10	8
15795	NOV 22	1711 18.7	40.60S	174.51E	73	3.0	0.3	25	19
15796	NOV 22	1716 2.5	40.92S	175.47E	25	2.1	0.1	9	6
15798	NOV 22	1837 44.3	41.65S	174.18E	26	2.3	0.2	13	10
15816	NOV 23	0416 20.1	41.73S	174.30E	33	2.7	0.2	17	13
15818	NOV 23	0505 8.9	40.59S	174.80E	47	2.1	0.1	5	5
15820	NOV 23	0957 54.3	41.60S	174.14E	12	2.0	0.2	9	7
15837	NOV 23	2310 49.3	40.67S	174.41E	46	2.2	0.1	8	6
15844	NOV 24	0255 39.9	40.72S	175.69E	24	2.6	0.3	18	12
15845	NOV 24	0259 42.5	40.84S	175.01E	33	2.3	0.2	12	10
15849	NOV 24	0630 51.0	41.17S	175.11E	11	3.2	0.1	34	26
15868	NOV 24	1521 3.6	41.29S	175.26E	28	2.4	0.2	17	13
15873	NOV 24	1551 23.0	41.74S	174.32E	21	2.2	0.2	16	11
15896	NOV 25	0655 6.8	40.95S	175.00E	30	2.1	0.1	12	10
15898	NOV 25	0855 22.2	40.98S	174.74E	34	2.8	0.1	22	17
15911	NOV 25	1825 26.7	41.45S	173.89E	43	2.4	0.1	8	5
15917	NOV 25	2052 42.3	40.97S	174.74E	32	2.5	0.1	18	13
15921	NOV 25	2329 53.8	41.74S	173.85E	12	2.7	0.3	24	15
15936	NOV 26	0618 12.8	41.53S	175.08E	19	3.0	0.2	26	19
15948	NOV 26	1406 48.4	41.34S	174.51E	32	2.1	0.2	13	10
15951	NOV 26	1509 17.7	40.93S	173.83E	78	2.9	0.3	32	22
15957	NOV 26	1956 54.5	40.87S	174.59E	54	2.4	0.1	10	8
15964	NOV 27	0335 9.2	40.91S	173.96E	82	3.1	0.2	33	23
15974	NOV 27	0646 46.1	40.62S	174.25E	78	3.7	0.2	46	34
15976	NOV 27	0758 42.2	41.01S	175.42E	29	2.2	0.1	9	8
15980	NOV 27	1054 4.4	41.02S	173.83E	54	2.2	0.3	10	7
15994	NOV 27	1654 5.0	41.89S	174.06E	5R	2.9	0.3	27	19
15998	NOV 27	1926 52.5	41.22S	173.83E	53	2.6	0.2	18	11
16003	NOV 27	2208 47.2	41.45S	173.78E	59	3.2	0.3	23	18
16006	NOV 28	0011 6.8	41.87S	174.03E	5R	2.2	0.2	12	8
16007	NOV 28	0024 11.2	40.62S	175.88E	33R	2.3	0.2	7	5
16009	NOV 28	0213 42.5	41.40S	175.01E	25	2.6	0.1	20	14
16012	NOV 28	0412 51.7	41.01S	175.40E	23	2.8	0.2	19	15
16018	NOV 28	0741 58.8	41.60S	174.35E	23	2.7	0.3	26	18
16019	NOV 28	0911 47.5	41.04S	175.50E	19	2.0	0.1	13	9
16024	NOV 28	1136 40.6	41.27S	175.29E	26	2.1	0.1	11	9
16029	NOV 28	1342 30.4	40.91S	174.48E	53	2.4	0.3	14	11
16039	NOV 28	2150 52.7	41.68S	174.25E	5R	3.3	0.4	23	19
16040	NOV 28	2204 13.8	41.18S	175.73E	19	2.4	0.2	14	9
16042	NOV 28	2207 29.9	41.70S	174.28E	5R	2.4	0.3	18	15
16044	NOV 28	2216 54.9	41.19S	175.87E	13	2.0	0.2	7	6
16045	NOV 28	2221 30.0	41.70S	174.26E	5R	2.3	0.3	15	11

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16047	NOV 28	2237 60.0	41.68S	174.26E	5R	2.2	0.2	13	11
16049	NOV 28	2259 3.9	41.19S	175.76E	23	2.6	0.2	16	10
16050	NOV 28	2305 34.2	41.15S	175.79E	17	2.0	0.2	11	7
16051	NOV 28	2317 53.7	41.69S	174.26E	5R	2.8	0.3	27	20
16060	NOV 29	0201 5.8	40.90S	175.65E	19	2.6	0.2	17	12
16062	NOV 29	0246 29.2	41.70S	174.26E	5R	2.2	0.3	10	7
16075	NOV 29	0716 27.9	40.93S	175.01E	30	2.0	0.2	8	6
16080	NOV 29	0854 12.3	40.70S	174.31E	63	2.2	0.2	11	8
16082	NOV 29	1007 7.5	40.73S	174.23E	63	2.0	0.2	8	6
16090	NOV 29	1108 21.6	40.83S	173.98E	61	2.0	0.3	10	7
16100	NOV 29	1543 17.2	40.88S	175.73E	27	2.5	0.2	12	9
16102	NOV 29	1645 32.2	40.90S	175.65E	20	2.7	0.2	14	11
16103	NOV 29	1655 20.3	41.91S	173.99E	15	2.3	0.3	22	16
16108	NOV 29	2021 27.8	41.11S	174.55E	41	3.6	0.2	34	29
16114	NOV 29	2150 20.7	41.22S	174.27E	42	2.4	0.2	19	14
16123	NOV 30	0304 22.1	41.36S	174.97E	27	2.5	0.2	19	14
16128	NOV 30	0524 38.1	41.60S	173.93E	17	2.1	0.2	9	8
16132	NOV 30	0731 2.6	40.57S	173.58E	99	3.2	0.2	31	23
16140	NOV 30	1054 2.5	40.98S	175.61E	25	2.4	0.2	15	9
16149	NOV 30	1253 22.4	41.76S	174.27E	12R	2.1	0.3	8	6
16159	NOV 30	1839 33.6	41.71S	174.26E	5R	2.2	0.3	10	7
16173	NOV 30	2356 38.6	41.69S	174.27E	5R	2.2	0.3	12	10
16177	DEC 01	0131 28.4	41.55S	174.37E	14	2.3	0.2	15	12
16195	DEC 01	1227 48.4	40.95S	173.74E	78	2.1	0.2	8	6
16208	DEC 01	1812 55.6	40.89S	174.54E	38	2.5	0.3	20	14
16211	DEC 01	1936 25.3	41.69S	174.16E	5R	2.1	0.2	12	10
16233	DEC 02	1405 0.5	40.75S	174.74E	34	2.6	0.3	21	15
16234	DEC 02	1437 3.8	41.12S	175.24E	29	2.0	0.1	9	7
16235	DEC 02	1449 59.4	41.68S	174.24E	5R	2.1	0.2	11	9
16238	DEC 02	1525 21.2	41.12S	174.73E	56	2.1	0.1	10	8
16240	DEC 02	1621 4.8	40.72S	175.49E	22	2.6	0.2	21	16
16243	DEC 02	1718 2.3	41.09S	174.61E	58	2.6	0.2	18	13
16245	DEC 02	1800 45.4	40.96S	174.28E	79	2.2	0.2	9	6
16253	DEC 02	2353 48.6	41.96S	174.08E	5R	2.7	0.3	19	15
16254	DEC 03	0014 43.8	40.53S	174.76E	28	2.3	0.3	13	10
16266	DEC 03	0750 21.4	40.89S	174.57E	13	2.1	0.1	9	6
16270	DEC 03	0900 15.6	41.15S	173.98E	63	3.0	0.3	27	20
16275	DEC 03	1329 39.2	41.60S	175.00E	28	2.2	0.1	9	8
16279	DEC 03	1450 19.7	41.23S	174.64E	33	2.3	0.2	18	12
16306	DEC 04	1416 30.4	40.68S	173.97E	77	2.5	0.3	13	9
16310	DEC 04	1455 58.6	41.40S	174.98E	24	2.3	0.1	14	11
16313	DEC 04	1958 23.3	41.40S	175.00E	24	2.5	0.1	16	11
16314	DEC 04	2129 44.0	41.39S	175.00E	23	2.6	0.1	16	12
16319	DEC 05	0011 30.5	41.19S	174.57E	34	2.8	0.2	17	14
16323	DEC 05	0153 43.8	40.99S	175.36E	11	2.3	0.2	13	10

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
16346	DEC 05	1346 19.8	41.37S	173.63E	81	2.4	0.2	9	8
16347	DEC 05	1351 56.9	41.08S	174.71E	31	2.0	0.1	14	11
16362	DEC 06	0304 18.5	41.70S	174.26E	5R	2.1	0.4	7	5
16363	DEC 06	0344 3.5	41.17S	174.58E	30	3.3	0.2	24	18
16366	DEC 06	0719 38.6	41.05S	174.04E	76	2.4	0.2	10	8
16368	DEC 06	0824 29.7	40.81S	174.92E	5R	3.1	0.2	33	24
16369	DEC 06	1022 41.6	40.63S	174.05E	74	2.7	0.3	14	10
16370	DEC 06	1223 43.2	40.57S	173.72E	89	2.7	0.4	20	15
16372	DEC 06	1508 53.2	41.24S	174.40E	60	3.6	0.2	35	22
16378	DEC 06	1844 20.4	40.52S	174.77E	5R	2.2	0.1	7	4
16398	DEC 07	1807 7.6	40.63S	174.16E	50	2.8	0.2	17	12
16535	DEC 08	0305 37.3	41.58S	174.15E	7	2.5	0.1	16	10
16540	DEC 08	0345 32.9	41.61S	174.13E	20	2.1	0.2	9	5
16542	DEC 08	0350 22.4	41.61S	174.06E	28	2.4	0.2	7	5
16548	DEC 08	0447 38.9	41.54S	174.46E	14	2.1	0.3	11	8
16551	DEC 08	0454 51.5	41.58S	174.16E	5R	2.4	0.2	11	7
16571	DEC 08	0659 1.1	40.83S	174.72E	5R	2.9	0.2	15	10
16572	DEC 08	0700 55.6	40.85S	174.73E	5R	2.1	0.2	6	5
16589	DEC 08	1121 54.3	41.40S	174.73E	28	2.1	0.1	10	8
16592	DEC 08	1145 59.6	40.61S	174.87E	5R	2.3	0.2	8	6
16639	DEC 08	2123 3.2	40.79S	175.00E	29	2.0	0.4	6	4
16642	DEC 08	2139 8.9	41.93S	174.16E	5R	2.5	0.2	10	7
16655	DEC 09	0105 38.0	41.57S	174.14E	8	2.8	0.3	20	13
16678	DEC 09	0835 13.6	40.91S	174.79E	53	2.8	0.2	21	15
16681	DEC 09	0901 12.9	41.50S	174.41E	51	2.9	0.2	23	15
16698	DEC 09	1255 55.4	41.01S	175.44E	27	2.6	0.2	11	7
16727	DEC 10	0143 18.9	41.68S	174.25E	5R	2.4	0.3	18	12
16790	DEC 10	1214 25.4	41.68S	174.26E	5R	2.6	0.3	18	11
16866	DEC 11	0634 40.8	41.69S	174.19E	32	2.4	0.1	10	7
16873	DEC 11	0806 29.1	41.18S	174.55E	36	2.3	0.1	11	8
16877	DEC 11	0922 23.2	41.77S	173.94E	15	2.9	0.3	22	17
16882	DEC 11	1219 59.6	41.79S	173.96E	11	2.3	0.3	11	8
16914	DEC 11	2254 13.5	41.68S	174.29E	5R	2.2	0.3	13	9
16972	DEC 12	1137 8.8	40.82S	175.18E	31	2.4	0.2	13	10
16994	DEC 12	1746 26.2	41.38S	174.98E	25	2.7	0.2	21	14
17008	DEC 12	2038 53.6	40.52S	175.46E	33R	2.2	0.1	5	4
17071	DEC 13	0624 19.6	41.30S	174.51E	53	2.4	0.1	11	9
17072	DEC 13	0626 3.2	40.60S	175.32E	32	2.5	0.2	15	12
17083	DEC 13	0849 24.2	41.57S	174.89E	63	2.2	0.0	5	5
17092	DEC 13	0956 26.7	40.68S	175.89E	30	2.3	0.2	11	9
17120	DEC 13	1302 11.5	41.68S	174.26E	5R	2.4	0.3	17	12
17157	DEC 13	2215 52.5	41.37S	174.52E	60	2.1	0.1	9	7
17159	DEC 13	2247 51.3	41.21S	173.63E	63	2.4	0.3	12	9
17206	DEC 14	0944 36.2	40.94S	175.17E	27	2.6	0.2	12	9
17208	DEC 14	1012 46.2	40.83S	174.94E	32	2.6	0.2	17	13

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
17222	DEC 14	1405 0.6	41.19S	174.56E	32	3.4	0.3	31	25
17226	DEC 14	1503 52.1	41.70S	174.41E	11	2.5	0.3	22	17
17231	DEC 14	1605 7.6	41.70S	174.40E	14	2.3	0.3	18	15
17239	DEC 14	1825 50.4	41.01S	174.94E	31	2.4	0.2	14	10
17255	DEC 14	2337 44.2	41.64S	174.37E	5R	2.5	0.2	16	12
17258	DEC 15	0156 56.7	41.69S	174.40E	12	2.2	0.3	14	11
17259	DEC 15	0157 42.5	41.70S	174.41E	13	2.5	0.3	19	16
17329	DEC 16	0019 58.7	40.95S	174.96E	31	2.4	0.2	14	12
17337	DEC 16	0330 24.7	41.17S	173.55E	86	3.0	0.3	18	16
17340	DEC 16	0402 58.9	40.56S	175.95E	34	2.1	0.3	11	7
17385	DEC 16	1652 36.9	41.37S	174.82E	30	2.2	0.2	16	13
17463	DEC 17	1625 17.9	41.39S	174.10E	35	2.2	0.1	10	7
17485	DEC 17	2311 23.5	40.88S	173.98E	66	2.6	0.2	16	11
17490	DEC 18	0130 36.8	40.82S	174.97E	35	2.0	0.1	7	5
17491	DEC 18	0153 1.7	41.38S	174.31E	40	2.7	0.3	19	15
17520	DEC 18	0836 8.6	40.94S	175.17E	24	3.1	0.1	24	19
17535	DEC 18	1221 17.8	40.93S	175.16E	27	2.8	0.1	20	16
17536	DEC 18	1248 51.6	40.90S	174.14E	58	2.1	0.0	8	7
17541	DEC 18	1327 12.7	40.92S	175.18E	23	2.3	0.3	6	5
17542	DEC 18	1327 29.4	41.45S	174.07E	72	2.6	0.3	13	9
17558	DEC 18	1842 53.2	40.92S	175.47E	25	2.6	0.1	10	7
17562	DEC 18	1900 23.3	40.76S	173.88E	79	2.4	0.3	9	7
17579	DEC 19	0043 35.8	41.75S	174.17E	12R	2.2	0.2	9	7
17585	DEC 19	0242 49.9	41.69S	174.18E	5R	2.1	0.3	11	8
17594	DEC 19	0743 18.8	40.84S	174.65E	8	2.0	0.2	8	6
17601	DEC 19	0826 38.7	41.50S	173.92E	48	3.7F	0.2	30	21
17615	DEC 19	1243 42.9	41.19S	173.84E	56	2.3	0.3	10	7
17623	DEC 19	1627 8.8	41.42S	174.29E	24	2.2	0.3	15	11
17658	DEC 20	0309 23.9	41.98S	173.82E	16	2.2	0.2	9	6
17661	DEC 20	0448 33.8	40.89S	175.38E	22	2.4	0.3	8	6
17663	DEC 20	0503 14.8	40.64S	174.73E	25	2.6	0.1	13	11
17665	DEC 20	0515 30.4	40.96S	174.48E	64	2.5	0.1	7	5
17671	DEC 20	0622 11.6	40.58S	175.48E	28	2.2	0.1	8	6
17696	DEC 20	1524 24.9	41.59S	173.55E	50	2.2	0.1	9	6
17715	DEC 20	1749 58.1	41.72S	173.80E	41	2.3	0.4	10	6
17749	DEC 21	0240 11.8	41.64S	174.63E	27	2.5	0.2	15	12
17757	DEC 21	0518 22.0	41.09S	175.49E	12R	2.1	0.2	8	6
17780	DEC 21	1219 36.9	40.73S	175.48E	28	2.6	0.3	17	13
17785	DEC 21	1318 25.7	41.70S	174.19E	5R	2.1	0.3	11	9
17813	DEC 21	2117 33.6	41.53S	173.55E	56	2.7	0.3	23	16
17818	DEC 21	2350 24.1	41.11S	174.59E	55	3.0	0.1	20	15
17876	DEC 22	1500 47.7	40.80S	174.08E	76	2.1	0.2	9	6
17877	DEC 22	1519 22.9	40.53S	173.83E	94	2.4	0.3	14	9
17884	DEC 22	1727 10.6	41.53S	173.80E	51	3.4	0.2	32	24
17892	DEC 22	1844 42.3	40.90S	174.73E	59	2.1	0.1	8	6

NUM	DATE	TIME	LAT	LONG	DEP	MAG	Rsd	NP	NS
17902	DEC 22	2158 52.0	40.97S	175.43E	22	2.1	0.2	8	6
17926	DEC 23	0552 10.9	41.18S	174.61E	33	2.1	0.1	14	11
17934	DEC 23	0714 0.3	41.30S	175.88E	95	2.3	0.1	8	6
17948	DEC 23	1114 30.7	41.03S	174.47E	60	3.9F	0.2	38	31
17954	DEC 23	1339 31.7	40.56S	174.66E	27	2.1	0.2	10	8
17966	DEC 23	1639 34.7	40.88S	175.78E	31	2.0	0.3	9	7
17977	DEC 23	2228 30.1	40.66S	175.47E	29	2.5	0.3	14	11
17999	DEC 24	0640 58.1	41.30S	175.27E	26	2.4	0.1	17	12
18009	DEC 24	1008 32.6	41.84S	174.17E	5R	2.0	0.2	11	8
18014	DEC 24	1305 39.7	41.17S	174.75E	31	2.5	0.1	15	12
18050	DEC 25	0131 2.7	40.52S	174.47E	55	4.1F	0.3	39	35
18051	DEC 25	0138 16.9	40.52S	174.41E	33R	2.4	0.4	16	13
18053	DEC 25	0234 49.4	41.70S	174.51E	27	2.2	0.2	12	11
18075	DEC 25	0920 54.9	41.09S	174.88E	28	2.6	0.2	15	12
18084	DEC 25	1422 9.1	41.06S	174.54E	53	2.1	0.1	9	7
18085	DEC 25	1425 28.6	41.08S	174.88E	28	2.6	0.1	18	15
18131	DEC 26	0512 52.8	41.81S	174.54E	31	2.5	0.2	18	13
18191	DEC 27	0640 23.9	40.98S	174.64E	55	2.5	0.1	16	11
18213	DEC 27	2105 15.0	40.96S	174.55E	59	2.7	0.1	15	12
18216	DEC 28	0202 25.8	41.40S	174.98E	24	2.1	0.1	7	6
18218	DEC 28	0302 23.9	41.16S	175.52E	17	2.7	0.1	18	12
18223	DEC 28	0542 1.9	41.16S	175.53E	16	2.4	0.2	14	9
18225	DEC 28	0626 59.2	41.95S	173.99E	14	3.2	0.4	30	21
18235	DEC 28	1542 58.4	40.97S	174.47E	5R	2.5	0.3	14	11
18237	DEC 28	1823 54.8	40.64S	175.52E	33	3.3	0.3	30	25
18238	DEC 28	1904 7.1	40.53S	175.46E	31	2.3	0.2	10	9
18240	DEC 28	2102 24.0	40.61S	174.54E	22	2.3	0.3	12	8
18247	DEC 29	0121 49.7	41.33S	175.41E	14	2.1	0.0	10	7
18249	DEC 29	0535 51.8	41.35S	175.04E	26	2.3	0.1	10	8
18256	DEC 29	0948 52.0	41.58S	174.39E	11	2.3	0.3	21	16
18270	DEC 29	1909 0.9	41.67S	175.04E	22	2.0	0.1	9	7
18280	DEC 30	0232 20.3	41.44S	174.37E	56	2.6	0.2	14	11
18282	DEC 30	0309 11.0	41.20S	173.54E	57	2.2	0.1	6	5
18288	DEC 30	0647 45.3	40.65S	174.72E	34	2.4	0.2	11	9
18305	DEC 30	1814 59.1	41.29S	173.80E	59	2.3	0.1	8	5
18307	DEC 30	1909 13.1	40.54S	173.89E	83	2.8	0.3	19	13
18315	DEC 30	2358 35.8	40.90S	175.01E	34	2.6	0.2	14	10
18326	DEC 31	0648 13.1	41.04S	174.89E	51	2.0	0.2	12	9
18333	DEC 31	0937 24.1	41.09S	174.89E	30	2.5	0.2	16	12
18346	DEC 31	2105 14.7	40.95S	174.84E	32	2.1	0.1	10	7

NON-INSTRUMENTAL DATA

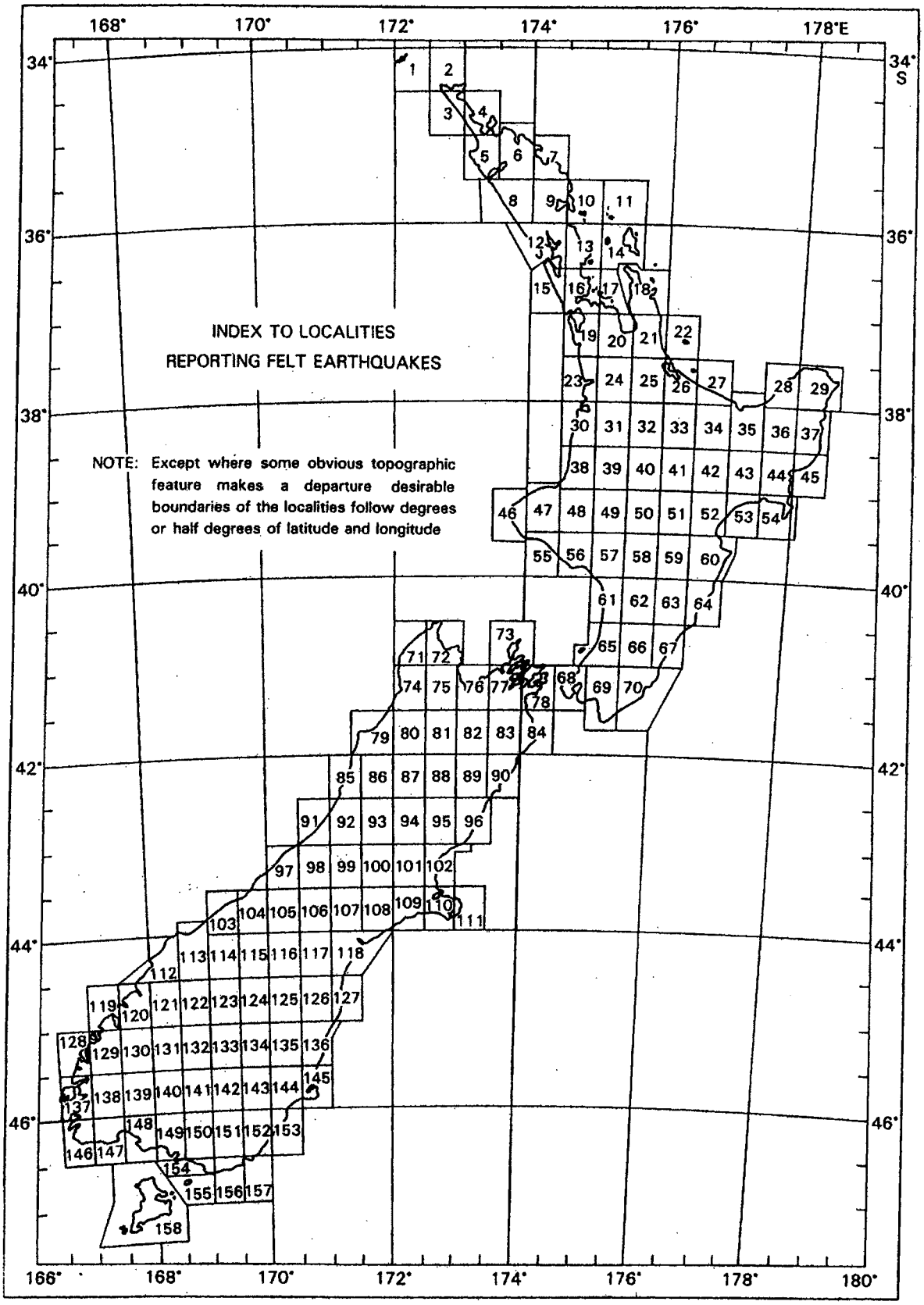
THE FELT REPORTING SYSTEM

The Institute has recruited a network of about 600 volunteer observers spread throughout the country, who use a standard form to describe the effects of any earthquake they feel. The Institute 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 Institute 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 Institute 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.

INDEX OF 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. Each set of numbers, separated by commas, following the name of the locality consists of an earthquake reference number 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 List of Origins and Magnitude Determinations.

9	Whangarei	11144	(5*).										
12	Kaipara	14107	(4*).										
16	Auckland	11144	(4*).										
17	Waiheke	11144	(4).										
18	Coromandel	14107	(4*).										
21	Thames	1120	(4),	1536	(4*),	11144	(5).						
26	Tauranga	1120	(2),	11144	(3),	14107	(4*).						
27	Whakatane	7291	(4*),	7866	(4*).								
29	East Cape	11144	(4),	14107	(4).								
33	Rotorua	493	(4*),	841	(4*),	853	(4),	854	(4),	855	(4),	857	(3),
		864	(4),	872	(4),	876	(4),	878	(4),	881	(4),	883	(4),
		884	(4),	888	(4),	895	(4),	11144	(5).				
34	Murupara	1114	(4*),	5195	(4*).								
35	Opotiki	4012	(4),	5016	(4),	5596	(3),	11144	(4),	14107	(4),	16395	(4),
		17835	(4).										
36	Motu	11144	(4),	12016	(3),	12073	(3),	14107	(4),	17835	(4).		
37	Tolaga Bay	11144	(5).										
39	Taumarunui	4978	(4).										
40	Tokaanu	150	(4*),	2986	(4),	2987	(4),	2998	(4).				
41	Taupo	150	(4*),	313	(4*),	1024	(4*),	1169	(4*),	2426	(4*),	6385	(4*),
		7689	(4*),	9255	(4*),	10837	(4*),	11144	(4),	13444	(4*),	13876	(4).
43	Tuai	11144	(4).										
44	Whakapunaki	12016	(3),	17835	(4).								
45	Gisborne	8429	(4),	11144	(5),	12016	(3),	13876	(4),	14107	(4),	17835	(4).
46	Cape Egmont	8080	(4*),	9943	(4).								
47	New Plymouth	8080	(4*),	14953	(4*).								
48	Whangamomona	13864	(4*),	13876	(4).								
49	Ohakune	7969	(4),	11144	(4),	12996	(4).						

52	Napier	39	(4),	42	(3),	7969	(4),	13876	(6),	16378	(4).		
57	Wanganui	39	(3),	42	(4),	985	(4),	3149	(4),	3324	(4),	5274	(4*),
		5528	(4),	7969	(4),	8429	(4),	9801	(4),	10006	(4*),	10271	(3),
		11144	(4),	12221	(4),	12966	(4),	12996	(4),	13052	(4),	13864	(4),
		13876	(4),	18040	(4).								
58	Taihape	7969	(4),	12996	(4),	13876	(4).						
60	Hastings	39	(4*),	2805	(4),	7969	(5),	11144	(4),	12996	(4),	13600	(4*),
		13876	(6),	14107	(4*).								
61	Bulls	39	(4),	42	(4),	2464	(4),	3149	(4),	3324	(4),	7969	(4),
		8928	(4),	11144	(4),	12996	(4),	13876	(4),	14925	(4),	15310	(4),
		15566	(4),	18040	(4).								
62	Palmerston North	39	(4),	7969	(4),	11144	(4*),	12996	(4),	13600	(4*),	13876	(4),
		15566	(4).										
63	Dannevirke	11144	(4),	12996	(4),	13692	(4*),	16284	(4*).				
64	Porangahau	16055	(4*).										
65	Otaki	42	(4),	924	(4*),	2464	(3),	3149	(4*),	7969	(4),	8071	(4*),
		10271	(4*),	10299	(4),	11144	(4),	12996	(4),	14107	(4*),	14925	(4),
		15310	(4),	17938	(4*).								
66	Masterton	39	(4),	11144	(4).								
68	Wellington	540	(4*),	4208	(4*),	5272	(3),	5274	(4),	5284	(4),	5528	(4*),
		7868	(4*),	7969	(4),	8429	(4),	8928	(4*),	10299	(4),	10856	(4),
		11144	(4),	11850	(4*),	12996	(4*),	13661	(4),	13688	(4*),	14018	(4*),
		14925	(4*),	15293	(4),	15310	(4),	18274	(4*).				
69	Featherston	4208	(4),	5274	(3),	10299	(4),	11144	(4).				
70	Martinborough	11144	(4),	14925	(4).								
72	Takaka	10939	(4),	11144	(4).								
73	D'Urville Is.	11144	(4).										
76	Nelson	7868	(5),	8341	(4),	11144	(5),	13480	(4*),	15293	(4).		
77	Blenheim	5272	(3),	5274	(4),	5284	(4*),	7868	(5),	7969	(4),	8341	(4),
		10299	(4),	10534	(4),	11144	(4),	13661	(4),	14290	(4),	14925	(4),
		15293	(4),	15310	(4),	15516	(4),	17592	(4).				
78	Picton	948	(4*),	1764	(4),	7868	(4*),	8341	(4),	8928	(4),	10299	(4),
		10856	(4),	10861	(4),	11144	(4),	12996	(4),	14290	(4),	14294	(4),
		15293	(4*).										
79	Westport	2564	(4),	4743	(4).								
81	Glenhope	7838	(4*),	13480	(4).								
84	Cape Campbell	5272	(4*),	5274	(4*),	5720	(4),	9960	(4),	15516	(4*).		
85	Greymouth	7742	(4*).										
87	Maruia	4743	(4),	5466	(?),	11144	(4).						
88	Hanmer	4743	(4),	11144	(4).								

90	Kaikoura	14553	(4*),	15201	(4*),	16281	(4*).				
92	Kumara	7742	(4).								
95	Culverden	4743	(4).								
96	Cheviot	4743	(4),	9493	(4),	11144	(4).				
97	Franz Josef	7742	(4),	11144	(4),	16399	(4).				
98	Hari Hari	7742	(4).								
99	Whitcombe Pass	4574	(4),	7742	(4).						
100	Lake Coleridge	7742	(4).								
102	Rangiora	4743	(4),	5466	(4),	11144	(4).				
103	Haast	7742	(4).								
105	Mount Cook	16399	(4).								
106	Tekapo	7742	(4).								
110	Christchurch	4743	(4),	5466	(4),	7969	(4),	11144	(4),	16399	(4*).
113	Jackson's Bay	3128	(4),	4331	(4),	9716	(4),	13978	(4),	16399	(4).
115	Lake Ohau	16399	(4).								
118	Timaru	16399	(4*).								
120	Milford	16399	(4*).								
121	Glenorchy	3128	(4),	13978	(4).						
122	Arrowtown	16399	(4).								
123	Wanaka	13978	(4*).								
132	Kingston	13978	(4),	16399	(4).						
133	Alexandra	16399	(4).								
134	Poolburn	16399	(4).								
138	Pillans Pass	16144	(4).								
139	Monowai	4137	(4),	4427	(4),	4428	(4*),	16399	(4).		
142	Roxburgh	16399	(4).								
149	Invercargill	16399	(4).								
158	Stewart Is.	11144	(4).								

FELT REPORTS FROM OUTSIDE NEW ZEALAND

The Institute 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 Institute.

DATE	TIME	INTENSITY	PLACE
Jan 17	10h 52m	'felt'	Raoul Island
Jan 24	21h 07m	'felt strongly'	Raoul Island
Feb 04	16h 05m	'felt'	Raoul Island
Feb 22	22h 12m	'felt'	Raoul Island
Feb 23	23h 52m	'felt'	Raoul Island
Apr 28	04h 52m	'felt'	Raoul Island
May 26	10h 59m	'felt'	Raoul Island
Jun 03	02h 57m	'felt'	Raoul Island
Jul 04	07h 08m	'felt'	Raoul Island
Jul 20	23h 04m	'felt'	Raoul Island
Aug 06	15h 07m	'felt'	Raoul Island
Aug 09	03h 09m	'felt'	Raoul Island
Aug 21	06h 55m	'felt'	Raoul Island
Sep 14	11h 47m	'felt'	Raoul Island

PUBLICATIONS BY STAFF MEMBERS

Abercrombie, R.E.; Bannister, S.C.; Pancha, A.; Webb, T.H.; Mori, J.J. 2001 Determination of fault planes in a complex aftershock sequence using two-dimensional slip inversion. *Geophysical journal international, 146(1):* 134-142

Begg, J.G.; Van Dissen, R.J.; Robinson, R. 2001 The Akatarawa fault : a newly discovered active fault in the Wellington region, and implications for increased hazard on the Wellington fault. p. 8 In: Lowe, D.J.; Cooke, P.J.; Pallentin, A. (eds.) *Geological Society of New Zealand annual conference 2001, 27-29 November, Hamilton : Advances in geosciences : abstracts & programme.* [Wellington]: Geological Society of New Zealand. Geological Society of New Zealand miscellaneous publication 110A

Berryman, K.R.; Webb, T.H.; Hill, N.; Stirling, M.W.; Rhoades, D.A.; Beavan, R.J.; Darby, D.J. 2001 Seismic loads on dams Waitaki System, earthquake source characterisation. *Institute of Geological & Nuclear Sciences client report 2001/129.* Main report 79 p.Appendices 64 p. - plus CD of logic trees

Cousins, W.J. 2001 Status and developments in strong-motion recording in New Zealand. p. 63-66 In: Stepp, J.C.; Nigbor, R.L.; Johnson, C.M. *Invited Workshop on Strong-Motion Instrumentation of Buildings, held at Marriott Courtyard Hotel, Emeryville, California, 14 and 15 November 2001.* [Richmond, Calif.]: Consortium of Organizations for Strong-Motion Observation Systems. COSMOS publication CP-2001/04

Cousins, W.J.; Johnston, D.M.; Manville, V. 2001 Potential Seismic and Volcanic risks to Carter Holt Harvey on the Rangitaiki Plains. *Institute of Geological & Nuclear Sciences client report 2001/76.* 50 p. plus 4 maps

Cousins, W.J.; Smith, W.D. 2001 Hawke's Bay Regional Council Infrastructural Assets Seismic Risk Assessment. *Institute of Geological & Nuclear Sciences client report 2001/48.* 19 p.

Cowan, H.A. 2001 GeoNet. *Newsletter / Geological Society of New Zealand, 125:* 12-22

Cowan, H.A. 2001 GeoNet program : geological hazard monitoring system for New Zealand. p. 41-49 In: Litchfield, N.J. (comp.) *Ten years of paleoseismology in the ILP : progress and prospects : 17-21 December 2001, Kaikoura, New Zealand : programme and abstracts.* Lower Hutt: Institute of Geological & Nuclear Sciences Limited. Institute of Geological & Nuclear Sciences information series 50

Davenport, P.N. 2001 Seismic intensities derived from strong motion instruments in New Zealand. 6 p. In: *New Zealand Society for Earthquake Engineering Inc Technical Conference and AGM, Wairakei Resort Hotel Friday/Sunday 23-25 March 2001 : Conference technical papers.* Upper Hutt: New Zealand Society of Earthquake Engineering.

Davenport, P.N. 2001 Site specific seismic spectra for Ohakea. *Institute of Geological & Nuclear Sciences client report 2001/94.* 13 p.

Downes, G.L.; Dowrick, D.J.; Van Dissen, R.J.; Taber, J.J.; Hancox, G.T.; Smith, E.G.C. 2001 The 1942 Wairarapa, New Zealand, earthquakes : analysis of observational and instrumental data. *Bulletin of the New Zealand Society for Earthquake Engineering, 34(2):* 125-157

Downes, G.L.; McGinty, P.J. 2001 New insights on old New Zealand earthquakes : was the 1942 Mw 7.2 Wairarapa Earthquake triggered by the 1934 Mw 7.4 Pahiatua Earthquake? *Seismological research letters, 72(2):* 266

Downes, G.L.; Stirling, M.W. 2001 Groundwork for development of a probabilistic tsunami hazard model for New Zealand. p. 293-301 In: *US National Tsunami Hazard Mitigation Program Review and International Tsunami Symposium, Seattle, Washington.* Seattle, Wash.: International Tsunami Symposium.

Dowrick, D.J.; Rhoades, D.A.; Davenport, P.N. 2001 Damage ratios for domestic property in the magnitude 7.2 1968 Inangahua, New Zealand, earthquake. *Bulletin of the New Zealand Society for Earthquake Engineering, 34(3):* 191-213

Eberhart-Phillips, D.; Reyners, M.E. 2001 A complex, young subduction zone imaged by three-dimensional seismic velocity, Fiordland, New Zealand. *Geophysical journal international, 146(3):* 731-746

Gledhill, K.R.; GeoNet Team 2001 The GeoNet project : a modern geological hazards monitoring system for New Zealand. *Seismological research letters, 72(3):* 390

Hagerty, M.T.; Sherburn, S. 2001 Recent tornillos beneath Tongariro Volcano, New Zealand. *Eos, 82(47:supplement):* F1309

Maunder, D.E. 2001 New Zealand seismological report 1999. Lower Hutt: Institute of Geological and Nuclear Sciences. *Institute of Geological & Nuclear Sciences science report 2001/07.* 156 p.

McLeod, D.P.; King, B.T.; Stedman, G.E.; Schreiber, K.U.; Webb, T.H. 2001 Autoregressive analysis for the detection of earthquakes with a ring laser gyroscope. *Fluctuation and noise letters, 1(1):* R41-R50

McVerry, G.H.; Zhang, Jian Jin. 2001 Wellington Inner-City Bypass: Site-Specific Seismic Hazard Assessment. *Institute of Geological & Nuclear Sciences client report 2001/102.* 45 p.

Pettinga, J.R.; Yetton, M.D.; Van Dissen, R.J. ; Downes, G.L. 2001 Earthquake source identification and characterisation for the Canterbury region, South Island, New Zealand. *Bulletin of the New Zealand Society for Earthquake Engineering, 34(4):* 282-317

Reyners, M.E. 2001 Preliminary results from the Central North Island Passive Seismic Experiment. *Newsletter/New Zealand Geophysical Society, 60:* 9-11

Rhoades, D.A.; McVerry, G.H. 2001 Joint hazard of earthquake shaking at two or more locations. *Earthquake spectra, 17(4):* 697-710

Rhoades, D.A.; McVerry, G.H. 2001 Estimation of the joint hazard of earthquake shaking at two or more sites. p. 344 In: *Vietnam 2001 IAGA-IASPEI Joint Scientific Assembly, 19-31 August 2001, Hanoi, Vietnam : abstracts.* Hanoi, Vietnam: Joint Scientific Assembly.

Robinson, R. 2001 Seismicity in a zone of shallow subduction, Wellington, New Zealand : where, what, and why. *Seismological research letters, 72(2):* 275

Robinson, R.; Benites, R.A. 2001 Upgrading a synthetic seismicity model for more realistic fault ruptures. *Geophysical research letters, 28(9):* 1843-1846

Sherburn, S. 2001 Analysis of data from the Auckland Volcano-Seismic Network January to June 2001. *Institute of Geological & Nuclear Sciences client report 2001/98.* 13 p.

Sherburn, S.; Alloway, B.V.; Bryan, C.J.; Davies, M. 2001 The eruption detection system : Mt. Ruapehu, New Zealand. p. 130 In: Stewart, C. (ed.) *Cities on Volcanoes 2, Auckland, New Zealand, 12th - 16th February 2001: abstracts.* Lower Hutt: Institute of Geological & Nuclear Sciences. Institute of Geological & Nuclear Sciences information series 49.

Sherburn, S.; Nairn, I.A. 2001 A scenario of geophysical events inferred to have preceded the ~1300 AD Kaharoa eruption : lessons for the future. Lower Hutt: Institute of Geological & Nuclear Sciences. *Institute of Geological & Nuclear Sciences science report 2001/26.* 57 p.

Sherburn, S.; Scott, B.J.; Harris, J.; Maunder, D. 2001 Data from the Taranaki Volcano-Seismic Network: July 2000 to June 2001. *Institute of Geological & Nuclear Sciences client report 2001/89.* 18 p.

Stirling, M.W.; McVerry, G.H.; Berryman, K.R. 2001 The New Zealand seismic hazard model. p. 109 In: Litchfield, N.J. (comp.) *Ten years of paleoseismology in the ILP : progress and prospects : 17-21 December 2001, Kaikoura, New Zealand : programme and abstracts.* Lower Hutt: Institute of Geological & Nuclear Sciences Limited. Institute of Geological & Nuclear Sciences information series 50

Van Dissen, R.J.; Begg, J.G.; Robinson, R. 2001 The Akatarawa Fault : a newly discovered active fault in the Wellington region, and implications for increased hazard on the Wellington fault. 8 p. In: *New Zealand Society for Earthquake Engineering Inc Technical Conference and AGM, Wairakei Resort Hotel Friday/Sunday 23-25 March 2001 : Conference technical papers.* Upper Hutt: New Zealand Society of Earthquake Engineering.

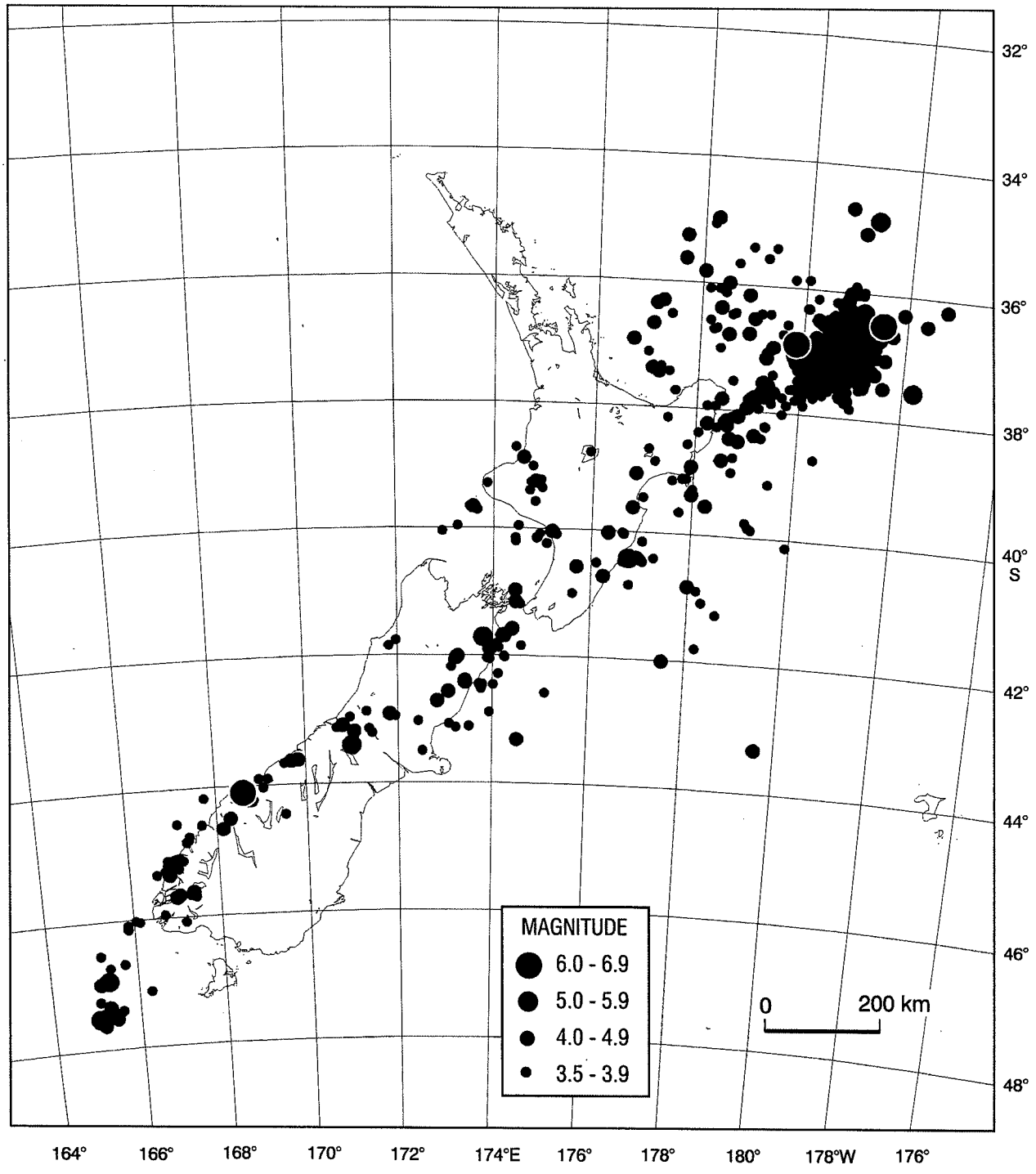
Vere-Jones, D.; Robinson, R.; Yang, W. 2001 Remarks on the accelerated moment release model : problems of model formulation, simulation and estimation. *Geophysical journal international, 144(3):* 517-531

Villamor, P.; Berryman, K.R.; Webb, T.H.; Stirling, M.W.; McGinty, P.J.; Downes, G.L.; Harris, J.S.; Litchfield, N. 2001 Waikato Seismic Loads - Task 2.1 Revision of Seismic Source Characterisation. *Institute of Geological & Nuclear Sciences client report 2001/59.* 109 p.

Webb, T.H. 2001 Some snippets from the 2000 Fall AGU Meeting. *Newsletter / New Zealand Geophysical Society, 58:* 34-37

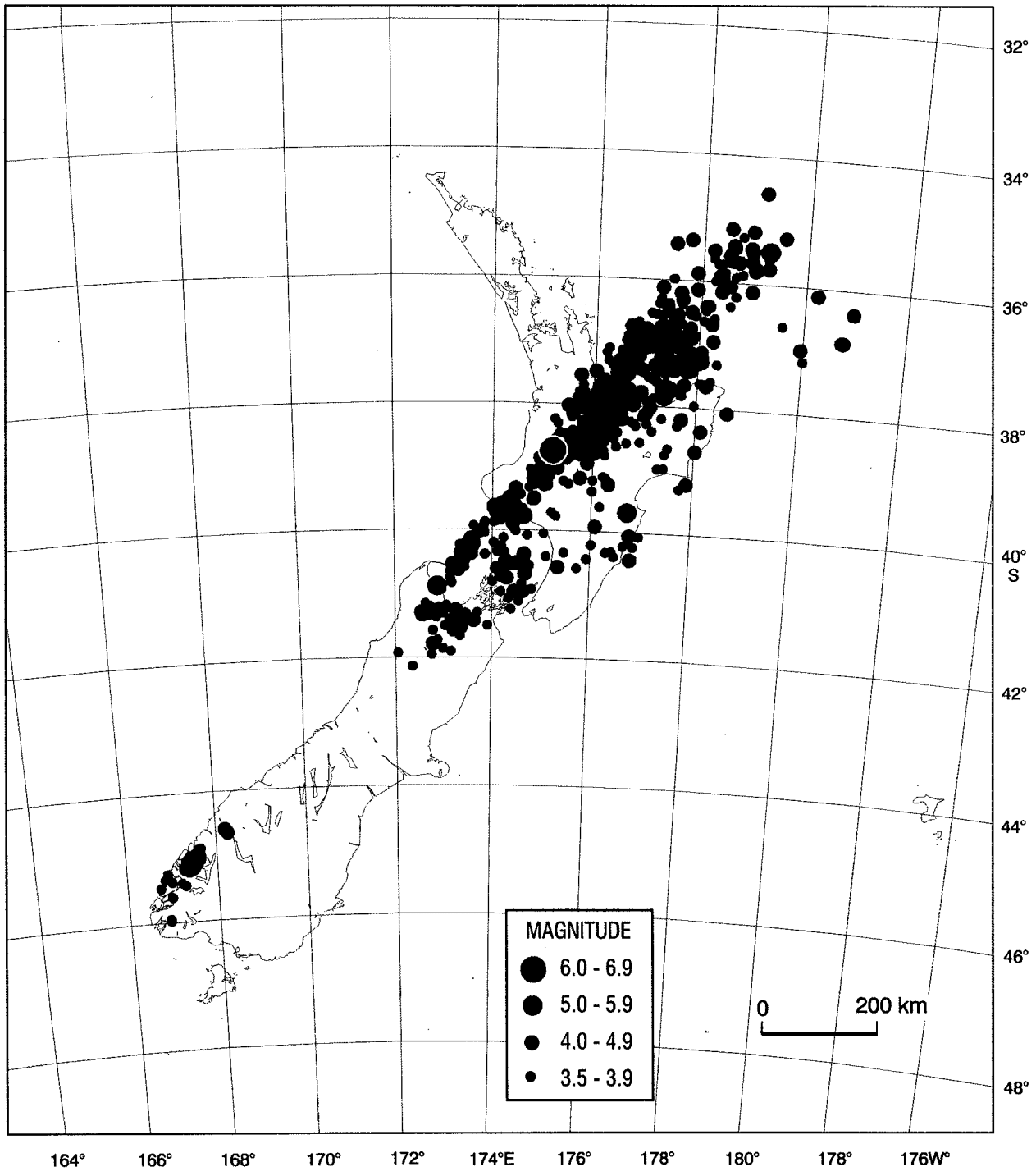
EPICENTRE MAPS 2001

REGIONAL SHALLOW EARTHQUAKES



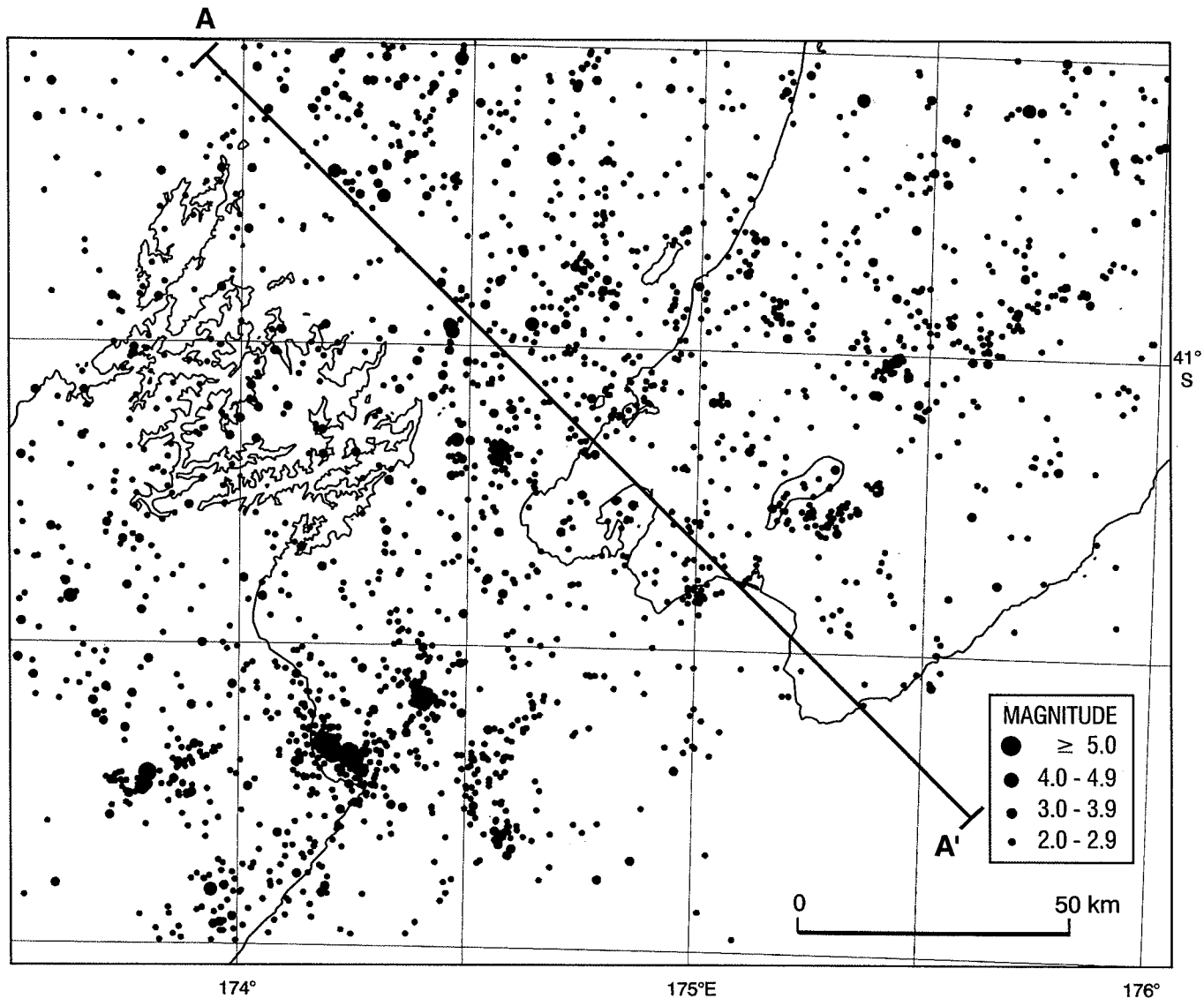
Epicentres of all earthquakes of $M_L \geq 3.5$ with focal depths less than 40 km. When several shocks have the same epicentre, the largest is shown.

REGIONAL DEEP EARTHQUAKES

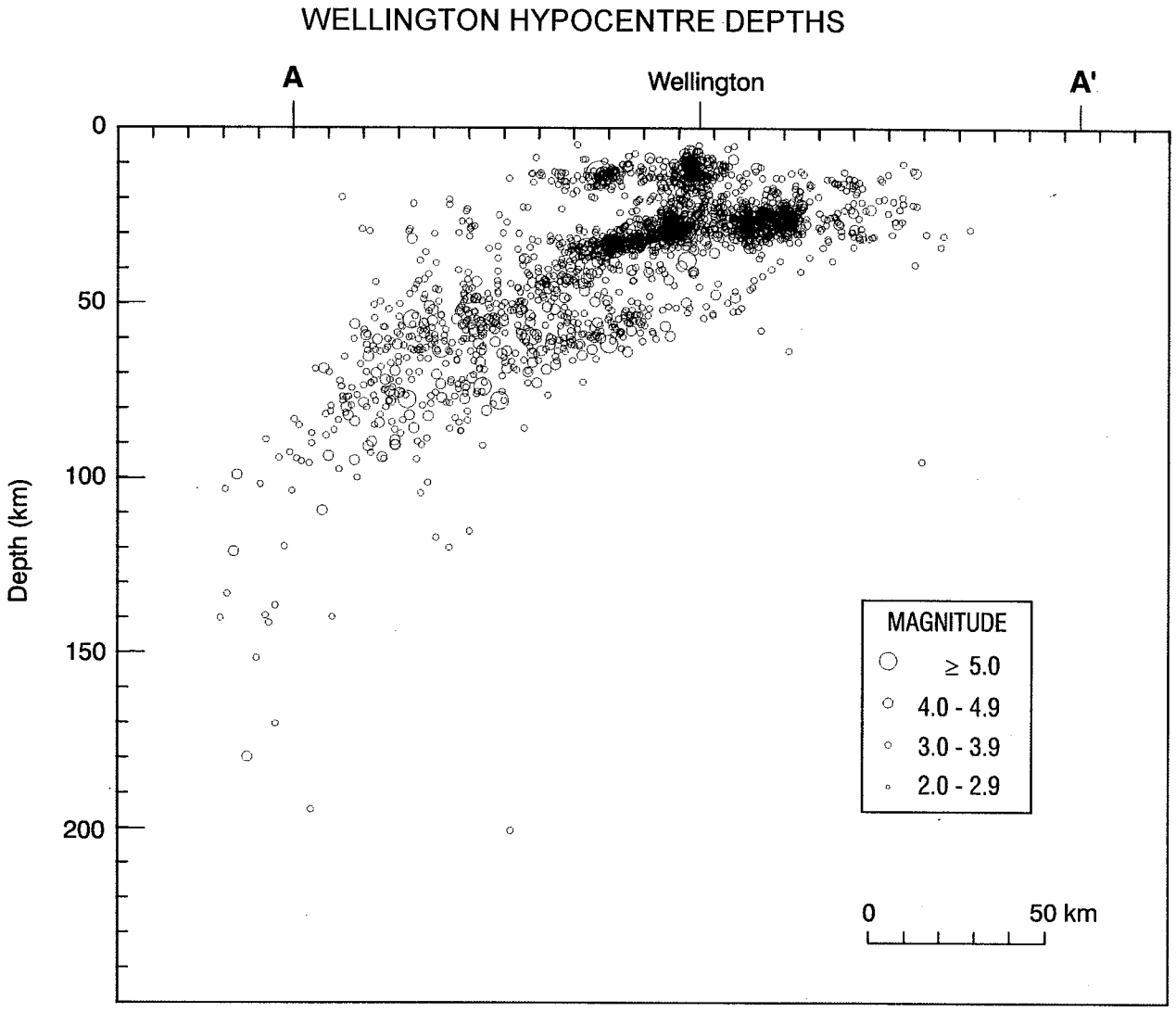


Epicentres of all earthquakes of $M_L \geq 3.5$ with focal depths of 40 km or more. When several shocks have the same epicentre, the largest is shown.

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'.



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.