New Zealand Department of Scientific and Industrial Research
GEOPHYSICS DIVISION

NEW ZEALAND

SEISMOLOGICAL REPORT

1967

SEISMOLOGICAL OBSERVATORY BULLETIN
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SEISMOLOGICAL OBSERVATORY, WELLINGTON,
NEW ZEALAND

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INTRODUCTION

The present Report follows the style of that for 1966 (E-148) in form and lay-out. Details of the network and its instrumentation are followed by instrumental and macroseismic data for New Zealand earthquakes. The readings of distant earthquakes appear in two sections, the first giving readings made at stations within New Zealand proper, and the second those from the other stations of the network, extending throughout the South-West Pacific and to Antarctica.

Progress in publishing these Reports is being maintained, and major parts of the unpublished material are available in manuscript form. Copies can be made available to users with special research needs, on application to the Observatory. It was decided in November 1970 to work out New Zealand epicentres as soon as the records became available in Wellington, and definitive epicentres are now available after a lapse of only about two months. The introduction of the new system, however, means that some data between late 1968 and 1970 November will not be available until arrears are overtaken.

Two new stations were established during the year, at Cape Reinga, and on Great Barrier Island, both in the northern part of the country. Other stations were re-equipped or re-calibrated. Details are given in the section "Stations of the New Zealand Network".

STATIONS OF THE NEW ZEALAND NETWORK

THE NETWORK IN 1967

The New Zealand Seismograph Network not only covers the two main islands of New Zealand proper, but includes stations in adjacent territories from Samoa to the Antarctic. The stations are of two kinds, one having short-period instruments, intended to record shocks originating within about 1000 km, and the other having long-period instruments designed to provide information about distant earthquakes and the physical condition of the Earth. These functions interlock, and every seismograph gives some useful information in both fields.

Two new stations were established during the year, the first at Cape Reinga (CRZ) on October 9. This is almost the most northerly point of the New Zealand mainland, and routine attention to the instrument will be in the hands of the staff at the lighthouse, through the courtesy of the Marine Department.

The second station, on Great Barrier Island (GBZ), has been established with the assistance of the Defence Scientific Establishment, Devonport, and began operating on October 14. These two stations should assist with locating shocks to the north of the Bay of Plenty, and those in the Northland Peninsula. In addition, the station at Cape Reinga will help to reduce the inevitable gap between the station on Raoul Island and those in New Zealand proper. Swarm activity occurs near Great Barrier Island and in the Coromandel Peninsula, and it is expected that coverage of this will be improved.

Several stations were provided with improved seismometers. The long established Wood-Anderson instrument at Cobb River has been replaced by a Willmore II. The mark I Willmores at Tarata and Wellington have also been replaced with the newer instrument. At the end of May, the Wellington instrument was successfully lowered to the bottom of a 60-metre borehole. It has not allowed any great increase in magnification, but the gain in freedom from artificial disturbance has been very satisfactory to those interpreting the records. The instrument is enclosed in a plastic capsule, together with a measurable resistance that will allow any penetration by water to be detected.

New quartz crystal chronometers were installed at several stations. The large number of daily time-signals has ensured satisfactory timing at all stations for many years, but the large and comparatively erratic rates of the older clocks and chronometers added to the difficulties in reading the records, and all stations except Wairakei, Kaimata, and Roxburgh now have quartz crystal clocks. No marine chronometers are now used except in emergency conditions.

The Lands and Survey Department has now re-determined the geographical positions of all existing stations. Some of the revised positions have already appeared in previous Reports. In no case have the changes proved significant for seismological purposes, but all stations are now rigorously related to the same coordinate system, in some cases with slightly increased accuracy.

INDEX OF THREE-LETTER STATION CODES

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

Afiamalu	AFI	Gebbies Pass	GPZ	Raoul Island	RAO
Apia	API	Gisborne	GNZ	Rarotonga	RAR
Auckland	AUC	Great Barrier	GBZ	Roxburgh	ROX
Bunnythorpe	BUN	Kaimata	KAI	Scott Base	SBA
Campbell Island	CBZ	Karapiro	KRP	Suva	SUV
Cape Reinga	CRZ	Mangahao	MNG	Tarata	TNZ
Chateau	CNZ	Milford Sound	MSZ	Tuai	TUA
Chatham Island	CIZ	Monowai	MNW	Waipapa Point	WPZ
Cobb River	COB	Mount John	MJZ	Wairakei	WNZ
East Cape	ECZ	Onerahi	ONE	Wellington	WEL

INDEX OF STATION POSITIONS

STN	LATITUDE D M S	LONGITUDE D M S	ALT M	GEOCENTRIC DIRECTION COSINES A	B	C
AFI	13 54 34 S	171 46 38 W	706	-0.961 070	-0.138 883	-0.238 9. 2
API	13 48 26 S	171 46 30 W	2	-0.961 482	-0.138 979	-0.237 142
AUC	36 51 36 S	174 46 41 E	79	-0.798 711	+0.072 996	-0.597 271
BUN	40 17.0 S	175 38.1 E	60	-0.762 783	+0.058 225	-0.644 027
CBZ	52 33 03 S	169 09 33 E	30	-0.599 744	+0.114 851	-0.791 907
CIZ	43 57 18 S	175 33 56 W	45	-0.720 923	-0.043 266	-0.691 563
CNZ	39 12 00 S	175 32 51 E	1116	-0.774 682	+0.060 322	-0.629 467
COB	41 05 16 S	172 44 02 E	213	-0.749 824	+0.095 603	-0.654 594
CRZ	34 25 55 S	172 40 47 E	140	-0.819 834	+0.105 317	-0.562 933
ECZ	37 41 37 S	178 32 46 E	40	-0.793 026	+0.020 128	-0.608 955
GBZ	36 13 04 S	175 28 52 E	70	-0.806 157	+0.063 712	-0.589 262
GNZ	38 38 39 S	178 01 21 E	30	-0.782 622	+0.027 021	-0.621 911
GPZ	43 41 47 S	172 38 40 E	225	-0.719 365	+0.092 861	-0.688 397
KAI	42 31 33 S	171 24 31 E	82	-0.730 944	+0.110 432	-0.673 443
KRP	37 55 30 S	175 32 15 E	64	-0.788 423	+0.061 530	-0.612 049
MJZ	43 49 14 S	170 27 58 E	1000	-0.711 861	+0.119 558	-0.692 069
MNG	40 37 07 S	175 28 55 E	396	-0.758 862	+0.059 968	-0.648 484
MNW	45 46 49 S	167 37 07 E	155	-0.683 548	+0.150 055	-0.714 315
MSZ	44 40 14 S	167 55 01 E	38	-0.697 720	+0.149 363	-0.700 527
ONE	35 46 33 S	174 21 45 E	30	-0.809 242	+0.079 881	-0.582 020
RAO	29 15 10 S	177 55 10 W	110	-0.873 304	-0.031 743	-0.486 140
RAR	21 12 45 S	159 46 24 W	28	-0.875 499	-0.322 584	-0.359 779
ROX	45 28 33 S	169 19 13 E	106	-0.691 421	+0.130 458	-0.710 575
SBA	77 51 01 S	166 45 22 E	38	-0.206 194	+0.048 529	-0.977 307
SUV	18 08 56 S	178 27 26 E	6	-0.950 524	+0.025 601	-0.309 595
TNZ	39 11 14 S	174 22 49 E	123	-0.773 432	+0.076 103	-0.629 294
TUA	38 48 29 S	177 09 02 E	274	-0.780 343	+0.038 839	-0.624 145
WEL	41 17 10 S	174 46 06 E	122	-0.750 478	+0.068 739	-0.657 311
WNZ	38 37 53 S	176 06 10 E	350	-0.781 416	+0.053 234	-0.621 735
WPZ	46 39 37 S	168 50 59 E	15	-0.675 767	+0.133 196	-0.724 981

TIMING ARRANGEMENTS

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

INSTRUMENTATION AND LITHOLOGY

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

	Instrument	Compt	To	Tg	Damping	Magnification
AFI	AFIAMALU					
	World-Wide Standard Station.					
	Foundation: Basaltic lava flows.					
	Benioff	ZNE	1.0	0.75		12,500 at 1.0 sec
	Press-Ewing	ZNE	15	100		750 at 15 sec
API	APIA					
	Foundation: Coral sand on Recent and Pleistocene basalt.					
	Willmore I (Photo-cell amplifier used with pen-and-ink recorder).					
		Z	0.7	0.5		
AUC	AUCKLAND					
	Foundation: Volcanic beds on Tertiary sandstone and mudstone.					
	Willmore I (Photo-cell amplifier used with pen-and-ink recorder).					
		Z	1	1		7,600 at 0.8 sec
BUN	BUNNYTHORPE					
	Strong-motion station without automatic time-signal recording.					
	Foundation: Gravels, silts, and sands.					
	Imamura	Z	2		5:1	1
		NE	8		5:1	1
CBZ	CAMPBELL ISLAND					
	Foundation: Basalt.					
	Willmore II	Z	1	0.25		5,000 at 0.25 sec
CIZ	CHATHAM ISLAND					
	Foundation: Clay over basalt.					
	Willmore II	Z	1.0	0.25		4,440 at 0.2 sec
		N	1.0	0.25		5,110 at 0.25 sec
		E	1.0	0.25		4,400 at 0.2 sec

CNZ	CHATEAU					
	Foundation: Volcanic ash and lava.					
	Willmore I	Z	1.0	0.25		41,900 at 0.2 sec
COB	COBB RIVER					
	Foundation: Schist.					
	Wood-Anderson	E	0.8		crit.	2,800 (until Nov. 22)
	Willmore II	Z	1.0	0.25		27,450 (from Nov. 22)
CRZ	CAPE REINGA					
	Foundation: Cretaceous basic volcanics.					
	Willmore II	Z	1.0	0.25		9,345 at 0.25 sec
		N	1.0	0.25		10,200 at 0.20 sec
		E	1.0	0.25		9,785 at 0.20 sec
ECZ	EAST CAPE					
	Foundation: Mudstone and sandstone.					
	Willmore II	Z	1.0	0.25		5,200 at 0.3 sec
GBZ	GREAT BARRIER					
	Foundation: Tertiary volcanics.					
	Willmore II	Z	1.0	0.25		3,770 at 1.0 sec
GNZ	GISBORNE					
	Foundation: Alluvium on Tertiary mudstone.					
	Willmore I	Z	1.0	0.25		8,900 at 0.3 sec
GPZ	GEBBIES PASS					
	Foundation: Rhyolite.					
	Wood-Anderson	N	0.8		crit.	2,800
KAI	KAIMATA					
	Foundation: Moraine and river gravels over Tertiary mudstone and sandstone.					
	Wood-Anderson	X	0.8		crit.	2,800
	This instrument is oriented so that the X component lies north-east.					
KRP	KARAPIRO					
	Foundation: Greywacke.					
	Benioff	Z	1.0	0.25		36,500 at 0.3 sec
		N	1.0	0.25		12,200 at 1.0 sec
		E	1.0	0.25		43,200 at 0.5 sec
MNG	MANGAHAO					
	Foundation: Greywacke.					
	Willmore II	Z	1.0	0.25		48,600 at 0.3 sec
MSZ	MILFORD SOUND					
	Foundation: Gneiss.					
	Willmore II	Z	1	0.25		52,650 at 0.25 sec
MNW	MONOWAI					
	Foundation: Tertiary sandstone.					
	Willmore II	Z	1.0	0.25		28,800 at 0.25 sec

MJZ MOUNT JOHN

Foundation: Greywacke.

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

ONE ONERAHI

Foundation: Basalt.

Wood-Anderson	E	0.8		crit.	2,800

RAO RAOUL ISLAND

Foundation: Volcanic rock.

Willmore II	Z	1.0	0.25	4,800 at 0.25 sec

RAR RAROTONGA

World-Wide Standard Station.
Foundation: Basalt.

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

ROX ROXBURGH

Foundation: Chlorite schist.

Willmore I	Z	1.0	0.25	12,100 at 0.25 sec
Galitzin	Z	12	12	200 approximately
	NE	24	24	300 approximately

SBA SCOTT BASE

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

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

SUV SUVA

Foundation: Hard fine-grained calcareous marl.

Willmore II	Z	1.0	0.25	6,500 at 0.2 sec

TNZ TARATA

Foundation: Pleistocene mudstone.

Willmore II	Z	1.0	0.25	7,000 at 0.2 sec

TUA TUAI

Foundation: Thick Tertiary sandstone and mudstone.

Willmore II	Z	1.0	0.25	7,500 at 0.2 sec

WEL WELLINGTON

World-Wide Standard Station.
Foundation: Greywacke.

Benioff	ZNE	1.0	0.75		6,250 at 1.0 sec
Press-Ewing	ZNE	15	100		750 at 15 sec
Willmore I	Z	1.0	0.25		20,000 at 0.25 sec (until Jan 5)
Willmore II	Z	1.0	0.25		22,750 at 0.20 sec (from Jan 5)
Wood-Anderson	NE	0.8		crit.	1,400

Imamura	Z	1		5:1	1
	NE	4		5:1	1

On May 27, the Willmore Z instrument was lowered to the bottom of a borehole approximately 60 metres deep.

WPZ WAIPAPA POINT

Foundation: Sand overlying Jurassic sediments.

Willmore II	Z	1	0.25	3,000 at 0.2 sec

WNZ WAIRAKEI

Foundation: Pumice breccia.

Willmore I	Z	1.0	0.25	300 (approximately)

PRINCIPAL NEW ZEALAND EARTHQUAKES IN 1967

If we except an earthquake in the Kermadec Trench region, more than 500 km to the north-east of East Cape, on October 18 (Epicentre 67/425, M = 6.0) and two deep earthquakes even further to the north-east (Epicentres 67/376, M = 6.2 and 67/469, M = 6.1), all of which lie beyond the Main Seismic Region of New Zealand proper, there were no New Zealand earthquakes reaching magnitude 6 in 1967. This is an abnormally low release of seismic energy within New Zealand, and the comparatively small number of large shocks between New Zealand and the Kermadecs is also somewhat unusual, though in neither case has the normal range of statistical fluctuation been exceeded.

On June 28, a shallow shock of magnitude 5.9 (Epicentre 67/242) occurred 250 km to the south-west of Stewart Island, and although it was felt in parts of Southland, it is possible that this shock also belongs to the neighbouring Campbell submarine Ridge rather than to the Fiordland Region, to which most shocks in the south of the country belong. A magnitude 5.3 shock in the same region on December 18 (Epicentre 67/504) was not reported felt.

The earthquake of January 16 (Epicentre 67/020, M = 5.0), which caused some minor damage in the Foxton area, was the first of a number of moderate shallow shocks concentrated in the southern part of the North Island. The largest of these (M = 5.4) occurred on March 24 (Epicentre 67/098) and originated off the east coast, to the north of Castle Point. Intensities on land did not exceed MM V, and there was no damage. Minor damage occurred near Masterton as a result of the shock on November 11 (Epicentre 67/457, M = 5.2), and that on September 21 (Epicentre 67/381, M = 5.2) reached MM VI at Ohau and Paraparaumu. The maximum reported intensity on December 24 (Epicentre 67/517, M = 5.1) was MM V at Hunterville, and that on July 11 (Epicentre 67/265, M = 5.1), centred in Marlborough, produced no reports above MM IV. The last shock of this group, on December 20 (Epicentre 67/507, M = 4.7), was centred near Wanganui, and its felt area extended to Taranaki and the central North Island rather than to the south. The size of the felt area and the number of reports of MM V are a little surprising for a shock of this magnitude, and the report of MM VI at Parihauhau should probably be treated with caution.

The number of shocks with greater than normal focal depth and magnitude greater than 5 was, in comparison with the shallow activity, fairly high, but not abnormally so. Only the shock on February 21 (Epicentre 67/050, M = 5.1, focal depth = 114 km), which was widely felt in Taranaki and parts of Hawkes Bay, and that on December 2 (Epicentre 67/484, M = 5.5, focal depth = 180 km), felt in Hawkes Bay, the central North Island, attracted much public notice, and few reported intensities exceeded MM IV.

An earthquake on March 5 (Epicentre 67/064) appears to be a deep shock in an unusual position. Its epicentre is in the Hikurangi Trench, to the east of the North Island in about latitude 40°. The depth formally assigned is only 55 km , and the standard error is large. There are no close recording stations, so that the depth determination is poorly controlled, and it seems most probable that this was a normal shallow earthquake. Its magnitude is 4.7.

No other deep shocks can be considered remarkable in depth, magnitude, or position. There are as usual numerous shocks with depths between 300 and 500 km in the Kermadec Region, but the deepest New Zealand shock this year (Epicentre 67/229), 368 km below the Bay of Plenty, is well within the known range of depth.

Swarm activity during the year was also moderate. A shock on April 20 (Epicentre 67/136, M = 4.3), felt at Tokaanu with an intensity of MM V was the largest of about a dozen on that and the following day. An earlier but smaller outbreak occurred on April 16 and 11. The Rotorua district also experienced a swarm, beginning on May 1-2 and resuming on May 17 (Epicentres 67/161 - 67/165).

The shock near Lake Coleridge on June 18 (Epicentre 67/224, M = 3.6) marks the resumption of activity from an intermittently active focus within the Central Seismic Region, after a quiet period that has lasted some years. A further shock (Epicentre 67/375, M = 4.1) occurred on September 16.

An earthquake of magnitude 6.2 in the Campbell Island region on September 20 at 09h 39m was felt on the Island, as were several aftershocks. The United States Coast and Geodetic Survey assign an epicentre at 49°.8S 163°.4E, and a focal depth of 30 km.

INSTRUMENTALLY DETERMINED ORIGINS

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

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

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

REF NUM		ORIGIN H	M	TIME S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NUM OBS	NUM STN
67/ 001	JAN 02	06	35	08.3	39.80S	174.12E	154		4.1	1.0	14	9
002	02	07	46	39.9	47.53S	164.82E	33	R	4.0	2.2	9	5
003	03	00	10	11.1	38.68S	175.78E	174		3.7	0.9	11	7
004	03	07	31	39.5	40.12S	175.01E	12	R	3.9	1.9	18	10
005	03	15	28	26.9	44.34S	171.06E	33	R	3.4	1.2	13	6
006	04	01	15	21.6	41.11S	175.79E	12	R	4.1	2.4	18	9
007	05	02	27	59.7	38.77S	175.88E	134		4.2	0.7	11	9
008	05	06	14	44.8	34.65S	179.61E	310		5.1	1.3	18	12
009	05	09	37	26.0	41.10S	175.00E	12	R	2.5	[illegible]	0	2
010	06	20	54	15.1	37.32S	177.32E	272		4.4	2.1	14	8
011	07	18	42	04.0	38.53S	175.93E	192		4.5	2.1	17	9
012	09	09	55	28.7	33.45S	179.40W	33	R	4.6	3.4	11	7
013	09	13	31	16.1	41.79S	174.42E	12	R	4.6	2.2	23	11
014	10	05	46	21.5	40.61S	175.97E	33	R	4.0	1.8	13	8
015	10	22	12	41.5	38.72S	175.63E	188		4.3	2.1	15	9
016	12	08	49	22.0	38.44S	176.06E	161		4.2	0.9	13	9
017	12	14	24	04.5	40.26S	175.09E	33	R	3.7	1.5	12	6
018	13	02	23	51.5	38.52S	175.78E	148		4.2	1.1	15	10
019	14	10	12	23.4	41.33S	174.29E	12	R	3.6	2.5	11	7
020	16	11	40	58.9	40.41S	175.53E	12	R	5.0	2.1	24	13
021	16	12	06	36.9	40.33S	175.21E	12	R	4.1	1.9	17	9
022	16	23	59	00.0	40.25S	176.18E	12	R	4.2	1.3	23	10
023	17	09	02	29.0	41.06S	172.72E	12	R	3.6	2.1	13	8
024	17	11	35	07.3	33.08S	179.59E	323		4.6	2.5	14	9
025	18	16	43	40.5	39.59S	175.74E	33	R	3.9	2.6	11	6
026	19	20	28	51.4	37.76S	176.10E	12	R	3.4	2.3	5	4
027	19	22	51	37.0	37.39S	176.69E	248		4.1	0.7	12	7
028	20	16	09	34.8	39.48S	175.63E	12	R	3.4	1.7	9	5
029	21	04	37	37.4	39.14S	174.87E	218		4.4	1.2	17	9
030	24	23	19	11.5	44.61S	168.20E	78		4.6	1.5	13	7
031	25	11	56	54.2	44.20S	168.61E	33	R	3.9	0.9	10	6
032	26	01	38	55.9	40.22S	174.06E	143		4.2	1.9	15	8
033	26	13	24	25.0	38.45S	175.83E	215		4.0	1.3	14	9
034	27	13	30	50.0	39.23S	174.85E	216		4.1	1.4	15	9
035	27	22	59	38.7	38.37S	175.82E	238		4.3	2.1	12	8
036	30	07	36	55.3	39.26S	175.53E	12	R	3.9	1.1	12	8
037	30	08	47	10.7	40.69S	174.03E	103		4.1	1.8	14	9
038	31	17	14	26.2	40.42S	175.92E	12	R	4.0	1.4	14	8
039	FEB 01	20	01	34.0	39.44S	174.92E	12	R	4.2	1.3	13	9
040	02	05	02	12.6	32.31S	179.71W	489		5.6	1.8	15	11
041	06	05	41	26.9	41.71S	174.26E	12	R	4.0	1.4	19	9
042	09	22	58	50.0	37.06S	178.67E	122		5.1	1.5	16	13
043	10	05	28	32.4	35.09S	179.97W	295		4.7	2.4	8	7
044	12	19	24	18.4	37.18S	177.45E	12	R	3.8	1.3	11	6
045	13	01	34	54.7	45.23S	166.06E	33	R	4.7	2.4	16	8
046	13	10	30	21	NEAR WAIRAKEI (41)							
047	13	11	39	04.8	38.36S	176.02E	202		4.1	1.8	12	8
048	14	17	38	58.8	39.51S	175.89E	12	R	3.6	1.0	7	6
049	17	21	20	11.2	37.32S	176.54E	330		5.0	1.0	19	12
050	19	08	49	31.3	41.92S	172.55E	12	R	3.8	1.4	19	9

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NJM OBS	NUM STN
67/ 051	FEB	21 05 10 35.6	40.51S	174.76E	114		5.1	1.4	22	13
052		21 12 27 09.2	45.03S	167.66E	95		3.8	1.1	10	6
053		21 14 00 12.9	46.07S	167.68E	33	R	4.8	1.1	14	10
054		22 18 32 31.4	34.28S	179.86E	248		5.3	1.9	19	14
055		23 23 17 39.0	42.34S	172.91E	12	R	3.9	1.8	18	10
056		24 04 26 26.7	38.85S	175.45E	193		4.9	1.5	21	15
057		28 14 00 23.3	38.62S	178.30E	33	R	4.4	1.7	18	13
058		28 18 19 09.0	32.04S	179.95E	501		5.3	1.5	9	6
059	MAR	01 00 30 09.2	37.66S	179.97E	178		3.9	1.7	8	5
060		01 01 30 22.7	33.17S	177.94W	338		5.5	2.4	12	8
061		01 05 43 48.3	41.04S	172.86E	237		3.7	1.7	10	7
062		01 14 14 25.7	46.72S	165.58E	33	R	4.2	2.1	8	6
063		02 01 27 50.9	49.28S	163.90E	33	R	5.1	2.6	15	9
064		04 16 52 11.3	40.04S	179.63E	55		4.7	1.5	16	10
065		05 19 12 45.1	37.12S	176.55E	423		5.1	0.5	16	9
066		07 22 27 59.1	38.57S	177.19E	170		4.2	2.0	14	10
067		08 09 52 10.4	41.45S	174.54E	33		4.3	1.3	12	8
068		08 10 45 58.4	33.71S	179.31W	216		4.7	1.5	12	10
069		08 13 05 58.7	39.30S	177.15E	12	R	4.7	1.5	14	11
070		08 13 05 58.9	37.13S	175.72E	12	R	3.9	2.8	6	4
071		08 19 37 00.3	37.56S	177.35E	310		3.9	2.5	9	6
072		09 14 01 19.9	44.94S	167.68E	63		4.3	0.9	10	8
073		09 17 32 07.1	37.92S	176.89E	133		5.3	1.8	19	11
074		10 02 59 41.6	38.85S	175.71E	150		4.0	1.0	12	8
075		10 11 22 05.2	37.98S	176.25E	281		4.3	0.3	12	8
076		10 19 55 10.0	38.48S	175.85E	191		4.1	1.2	13	8
077		11 20 58 42.9	45.15S	167.68E	79		4.5	3.0	13	8
078		12 06 50 32.6	40.53S	174.48E	33	R	4.8	2.0	25	14
079		12 07 41 34.5	37.42S	179.57E	117		4.4	2.3	14	11
080		13 02 57 37.5	38.32S	179.25E	33	R	4.1	1.8	14	10
081		17 01 08 43.2	37.26S	179.70E	132		4.3	1.8	14	11
082		17 10 02 17.6	41.31S	171.98E	33	R	3.5	2.5	16	8
083		17 10 51 57.9	46.71S	165.59E	33	R	3.8	0.7	5	3
084		18 19 00 28.2	45.66S	166.35E	33	R	4.0	2.4	8	4
085		19 07 26 41.2	33.48S	179.81E	404		4.8	1.7	14	9
086		19 18 24 55.4	39.10S	174.95E	214		4.3	1.4	17	10
087		19 22 32 15.1	38.20S	176.08E	252		4.0	0.6	12	7
088		20 12 16 45.9	33.01S	179.51E	288		4.6	2.4	13	10
089		22 01 18 23.0	39.63S	174.20E	198		4.0	2.5	10	7
090		22 05 20 38.3	38.86S	176.18E	12	R	3.3	2.4	6	5
091		22 06 02 18.1	38.76S	176.04E	12	R	2.5	0.5	4	3
092		22 09 28 35.2	37.32S	177.37E	250		4.0	1.4	8	5
093		23 03 05 27.1	37.14S	177.36E	318		4.2	1.9	8	6
094		23 19 01 58.5	41.47S	174.45E	33	R	3.7	2.1	10	6
095		24 02 16 09.2	38.55S	176.04E	159		4.3	1.8	13	8
096		24 03 15 29.2	45.03S	167.09E	12	R	4.7	1.5	12	7
097		24 18 29 30.5	40.74S	176.19E	12	R	3.8	2.0	14	9
098		24 19 09 17.6	40.72S	176.48E	12	R	5.4	2.4	23	12
099		25 17 05 56.0	41.13S	172.78E	12	R	4.2	1.4	19	12
100		25 19 45 15.2	40.64S	173.97E	12	R	3.9	2.0	15	7

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM		MAG	S E SEC	NJM OBS	NUM STN
67/ 101	MAR	26 20 37 21.8	38.24S	177.08E	33	R	3.9	2.5	10	7
102		26 21 09 57.3	35.69S	179.16W	33	R	5.0	1.9	18	11
103		27 02 11 12.5	42.36S	171.43E	12	R	4.1	1.5	19	9
104		27 04 50 55.1	32.03S	179.96E	250		5.6	2.9	11	10
105		27 08 56 11.4	35.79S	179.55W	33	R	4.5	1.7	14	9
106		27 13 18 10.8	44.71S	169.29E	12	R	4.5	2.5	16	8
107		29 17 46 00.0	38.61S	175.66E	193		5.2	1.5	17	10
108		29 10 21 21.6	39.61S	176.88E	12	R	3.6	2.0	10	6
109		31 17 05 40.5	39.40S	173.24E	33	R	3.7	2.3	8	5
110		31 20 02 03.5	44.68S	166.61E	12	R	4.1	1.8	8	4
111	APR	01 05 35 46.2	45.12S	167.71E	72		4.2	2.7	13	8
112		03 17 56 32.3	42.24S	174.19E	12	R	3.5	2.3	29	9
113		03 18 09 43.6	42.27S	174.18E	12	R	3.5	2.9	27	9
114		03 18 49 18.0	35.62S	179.53W	12	R	4.6	3.3	34	16
115		04 03 01 27.5	40.71S	176.68E	12	R	3.9	1.9	29	12
116		04 06 33 49.8	32.14S	179.38W	477		5.3	2.9	21	14
117		05 12 15 53.4	38.68S	176.02E	12	R	2.6	2.0	12	6
118		05 12 18 23.0	38.65S	176.10E	12	R	2.9	RI	0	2
119		05 13 28 48.5	38.67S	176.08E	12	R	3.1	1.3	16	6
120		06 21 04 35.0	33.00S	180.00W	33	R	5.3	RI	0	10
121		09 10 10 30.5	45.28S	167.42E	81		4.2	2.1	15	10
122		09 12 59 09.6	38.97S	175.80E	12	R	3.0	0.5	10	4
123		10 14 19 38.7	38.95S	175.86E	12	R	4.1	1.8	31	15
124		10 14 20 12.5	38.98S	175.81E	12	R	4.1	1.5	21	13
125		10 14 36 26.8	39.01S	175.75E	12	R	3.2	1.8	12	5
126		12 16 25 46.4	41.24S	174.35E	33	R	3.9	1.5	22	12
127		12 19 15 38.7	40.28S	173.34E	181		3.8	1.4	18	10
128		13 20 19 48.1	46.20S	169.00E	12	R	3.3	0.8	13	5
129		14 02 46 00.0	34.00S	179.00W	33	R	4.5	RI	0	10
130		14 05 07 50.0	33.50S	178.00W	33	R	5.1	RI	0	7
131		16 00 03 30	COROMANDEL PENINSULA.				3.0			
132		19 02 34 08.4	40.64S	176.67E	12	R	4.1	1.5	25	12
133		19 05 49 05.3	44.72S	168.24E	12	R	4.2	1.4	17	7
134		20 02 44 03.1	38.95S	175.80E	12	R	3.1	0.7	10	4
135		20 02 45 47.4	38.98S	175.62E	12	R	2.7	0.3	7	3
136		20 04 40 50.4	38.97S	175.88E	12	R	4.3	1.6	34	13
137		20 04 43 36.4	38.93S	175.84E	12	R	3.4	1.0	7	4
138		20 04 44 45.5	38.97S	175.77E	12	R	3.7	0.9	9	6
139		20 04 48 02.7	38.96S	175.81E	12	R	3.7	1.0	13	7
140		20 04 49 02.9	38.98S	175.77E	12	R	3.3	0.4	8	4
141		20 05 13 07.0	38.95S	175.82E	12	R	3.7	0.9	11	6
142		20 05 25 33.4	38.96S	175.80E	12	R	3.9	1.5	16	9
143		20 05 56 25.2	38.96S	175.79E	12	R	3.6	0.7	10	7
144		20 06 04 20.9	38.96S	175.77E	12	R	3.3	0.4	9	5
145		20 06 11 17.0	38.97S	175.60E	12	R	3.0	1.1	7	4
146		20 07 22 31.8	38.95S	175.78E	12	R	3.4	0.7	9	5
147		20 08 07 56.4	38.99S	175.75E	12	R	3.3	1.5	8	4
148		21 04 01 23.0	38.49S	176.13E	159		5.1	1.8	26	16
149		21 22 19 58.1	38.48S	179.06E	12	R	4.0	1.8	17	7
150		21 22 46 34.3	38.46S	179.04E	12	R	3.9	1.7	15	7

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
67/ 151	APR 22	12 29 24.6	37.97S	177.87E	123	4.6	3.0	20	12
152	23	20 43 32.3	39.89S	176.70E	33 R	4.2	1.5	24	13
153	25	19 08 25.9	39.63S	176.90E	12 R	4.0	1.2	10	5
154	26	15 19 16.1	39.19S	174.64E	205	5.3	1.7	30	17
155	26	20 35 57	NEAR TOKAANU (40).			2.5			
156	28	00 42 40.7	34.83S	179.87W	221	4.9	2.2	20	13
157	28	23 22 13.0	33.50S	179.50W	33 R	4.7	R	0	10
158	29	10 27 03.2	44.74S	167.97E	33 R	4.3	2.2	26	13
159	30	17 19 13.5	37.10S	176.96E	12 R	3.8	2.4	14	8
160	MAY 01	18 24 41.5	43.33S	171.00E	12 R	4.0	1.8	13	9
161	01	22 01 43	NEAR ROTORUA(33).			3.1			
162	01	23 06 59	NEAR ROTORUA(33).			2.8			
163	01	23 18 58	NEAR ROTORUA(33).			3.2			
164	01	23 28 28	NEAR ROTORUA(33).			2.9			
165	02	02 09 17	NEAR ROTORUA(33).			2.8			
166	02	15 42 34.2	36.24S	178.37E	246	5.0	1.1	14	10
167	03	10 48 49.8	38.97S	175.71E	152	5.6	2.3	22	16
168	04	13 53 49.0	45.20S	167.33E	33 R	3.6	R	0	2
169	07	07 38 02.1	38.66S	176.13E	33 R	3.0	1.8	5	5
170	07	10 10 53.5	39.54S	177.03E	12 R	4.0	1.3	14	10
171	08	18 45 02.5	33.73S	178.40W	222	5.3	1.9	21	14
172	11	06 07 53.9	41.06S	173.61E	125	4.0	1.5	12	8
173	11	09 25 07.0	44.46S	169.22E	12 R	3.6	1.5	8	4
174	11	23 49 55.7	33.34S	178.99E	298	5.4	2.3	22	15
175	12	21 59 52.8	39.35S	178.08E	33 R	4.5	1.1	10	9
176	14	01 32 05.7	38.94S	174.85E	224	4.0	0.9	11	6
177	14	14 40 43.7	38.03S	176.45E	12 R	3.8	0.7	7	5
178	16	12 06 46.6	41.74S	174.31E	12 R	4.4	1.5	14	10
179	16	14 00 25.9	38.92S	175.81E	12 R	3.5	1.3	8	4
180	17	17 48 00.5	37.98S	176.49E	12 R	3.9	1.5	7	7
181	17	17 58 14.7	38.06S	176.46E	33 R	4.7	1.5	10	12
182	17	18 48 51.5	37.99S	176.52E	12 R	3.9	1.3	7	7
183	17	18 50 09.4	37.89S	176.44E	12 R	4.8	1.5	9	11
184	17	18 52 42.4	38.05S	176.50E	12 R	4.1	1.3	6	6
185	17	19 06 05.2	38.01S	176.48E	12 R	4.3	1.3	9	9
186	17	20 32 49.7	38.05S	176.51E	12 R	4.5	0.9	8	9
187	18	11 41 33.6	37.96S	176.44E	12 R	4.3	1.2	8	8
188	19	03 09 18.6	35.66S	178.81W	149	5.8	1.2	20	14
189	20	04 33 34.1	36.97S	177.64E	249	4.6	1.2	17	13
190	20	23 10 51.8	34.19S	178.70E	250	4.4	1.7	13	9
191	22	10 00 03.2	37.36S	177.31E	191	4.5	1.3	15	12
192	22	19 59 21.0	38.43S	175.82E	187	4.8	1.9	17	12
193	23	18 10 35.6	37.48S	176.61E	254	4.6	1.0	18	12
194	25	04 14 41.2	45.07S	167.72E	119	4.0	1.5	7	4
195	27	15 36 55.3	41.17S	175.25E	33 R	3.7	0.4	9	7
196	30	03 18 12.1	41.40S	174.66E	46	3.7	0.4	9	8
197	30	08 04 46.9	38.57S	176.61E	33 R	3.8	7.3	7	6
198	30	09 00 51.1	36.24S	177.66E	33 R	3.9	1.3	7	7
199	30	11 27 04.9	35.69S	178.72E	33 R	4.2	2.5	9	8
200	JUN 01	23 20 20.8	40.30S	173.50E	196	5.0	1.5	31	17

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NUM OBS	NUM STN
67/ 201	JUN 02	16 06 55.7	39.32S	175.79E	85	3.9	1.8	14	10
202	03	16 57 51.2	36.68S	177.77E	237	4.3	2.2	19	12
203	04	04 04 17.6	38.92S	176.69E	12 R	3.4	2.3	16	8
204	07	07 44 42.0	49.00S	163.40E	33 R	3.8	R	0	3
205	07	08 08 25.0	41.51S	173.09E	129	4.0	1.4	19	11
206	07	14 20 28.1	41.10S	173.50E	108	4.6	1.8	22	15
207	07	19 30 34.4	48.98S	163.40E	33 R	4.8	2.7	12	9
208	07	20 19 13.0	49.00S	163.40E	33 R	4.2	R	0	4
209	08	04 16 16.2	38.09S	176.29E	188	4.2	0.8	15	10
210	08	06 38 48.0	45.10S	167.56E	129	3.7	1.1	10	6
211	08	06 53 09.2	45.00S	167.61E	61	3.3	0.3	8	4
212	09	16 50 13.5	39.33S	177.84E	33 R	4.6	1.5	22	14
213	10	16 57 45.8	39.40S	178.87W	33 R	4.0	1.4	15	9
214	12	12 25 14.3	40.25S	175.03E	12 R	4.0	1.9	30	14
215	13	08 39 09.0	37.47S	176.95E	12 R	4.2	1.2	25	9
216	13	12 02 04.9	37.32S	176.96E	12 R	3.7	1.7	17	8
217	13	12 12 08.2	37.32S	177.00E	12 R	4.1	2.1	19	8
218	13	12 28 49.9	37.20S	176.96E	12 R	4.1	1.9	16	8
219	13	13 01 36.0	44.93S	167.68E	102	4.5	1.3	19	12
220	13	14 26 35.5	44.95S	166.98E	12 R	4.5	1.7	26	11
221	13	14 36 51.2	37.39S	177.04E	12 R	4.4	2.5	27	11
222	13	16 13 23.2	37.28S	176.96E	12 R	4.4	1.5	26	11
223	14	08 22 05.2	34.21S	179.37E	345	4.7	1.4	23	15
224	18	13 18 45.4	43.41S	171.45E	12 R	3.6	1.7	22	9
225	18	23 06 52.6	34.15S	179.96W	306	4.6	1.3	17	12
226	19	15 51 57.2	36.43S	178.30E	246	3.7	1.2	12	9
227	21	19 49 34.4	37.92S	177.15E	138	4.4	1.7	22	14
228	22	03 58 44.2	46.49S	166.52E	12 R	4.2	2.5	23	9
229	22	19 05 40.2	37.43S	176.67E	368	4.0	0.9	15	10
230	23	07 58 53.8	33.16S	178.81W	33 R	5.0	5.1	14	10
231	23	23 41 52.8	35.53S	178.85E	309	4.1	2.8	11	8
232	24	00 27 35.3	37.59S	177.34E	33 R	3.5	1.3	16	9
233	24	15 49 32.1	37.64S	176.41E	251	3.9	0.6	12	8
234	25	01 03 55.2	37.75S	178.86E	12 R	4.3	2.5	30	14
235	25	01 04 30.9	37.74S	178.91E	12 R	4.5	2.8	26	16
236	25	01 09 45.3	37.71S	179.20E	12 R	3.8	1.2	11	6
237	25	07 02 23.0	45.32S	167.26E	95	4.3	1.2	12	8
238	25	09 03 23.1	36.93S	177.36E	12 R	4.5	2.3	28	13
239	25	14 37 01.6	38.98S	177.94E	33 R	3.9	1.7	20	13
240	26	00 44 01.7	37.44S	177.82E	125	4.1	2.1	18	13
241	27	17 32 38.7	37.85S	177.51E	33 R	3.9	1.7	28	14
242	28	14 34 03.7	47.23S	165.37E	33 R	5.9	2.2	31	18
243	29	21 37 06.2	38.58S	176.36E	168	3.9	2.3	14	9
244	29	22 48 00.0	31.00S	179.00W	33 R	5.1	R	0	7
245	JUL 01	02 55 49.8	41.20S	173.19E	111	3.7	1.9	16	9
246	01	16 12 50.5	38.29S	176.19E	12 R	4.4	2.0	10	6
247	01	17 49 34.7	38.44S	176.31E	12 R	3.6	1.3	9	5
248	02	19 44 18.8	38.20S	176.21E	196	4.1	2.3	12	7
249	02	22 01 42.2	40.52S	174.23E	85	4.1	0.9	10	7
250	05	23 10 53.7	32.82S	179.42E	297	4.9	3.1	11	9

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NJM OBS	NUM STN
67/ 251	JUL 06	09 40 28.0	41.90S	174.16E	12 R	4.0	1.9	15	7
252	06	21 01 24.5	40.50S	173.52E	201	3.7	1.3	12	8
253	07	11 51 36.9	39.20S	175.36E	167	3.9	1.5	8	5
254	08	06 18 05.7	33.17S	179.97E	326	4.7	3.2	15	9
255	08	10 08 03.4	44.98S	167.68E	95	3.7	0.5	8	4
256	08	21 59 04.8	35.35S	179.56E	240	4.3	1.7	11	9
257	09	02 46 13.9	37.43S	177.43E	170	4.1	0.7	11	8
258	10	07 23 30.4	45.81S	167.38E	77	4.7	1.8	20	11
259	11	03 23 42.4	44.94S	166.97E	33 R	4.0	1.9	14	7
260	11	05 12 22.2	38.84S	175.25E	12 R	4.0	2.2	11	9
261	11	06 22 56.0	38.95S	175.67E	12 R	3.0	RI	0	3
262	11	07 56 10.0	43.31S	170.99E	12 R	4.5	1.7	31	12
263	11	08 19 52.0	38.95S	175.67E	12 R	3.1	RI	0	3
264	11	08 54 44.0	38.95S	175.75E	12 R	3.1	RI	0	3
265	11	13 16 18.7	41.46S	173.54E	12 R	5.1	2.3	35	18
266	12	05 05 22.7	42.36S	174.42E	12 R	3.6	1.8	11	7
267	12	20 31 41.1	37.16S	177.31E	33 R	3.7	1.3	8	5
268	14	22 59 55.1	39.62S	179.13E	33 R	4.1	1.7	10	7
269	15	18 03 49.5	45.60S	166.24E	33 R	4.4	2.5	15	8
270	16	08 55 05.6	45.14S	167.51E	82	4.0	1.3	10	6
271	17	15 42 16.0	45.14S	167.72E	119	3.9	1.1	11	6
272	17	20 32 08.8	36.38S	177.44E	244	4.0	1.1	8	5
273	17	21 45 28.9	44.34S	167.64E	33 R	3.7	1.0	10	5
274	18	00 36 25.2	38.13S	176.40E	160	3.6	1.1	7	5
275	18	00 51 25.5	35.52S	178.87E	314	4.1	0.8	11	7
276	18	00 51 38.5	35.42S	178.73E	334	4.4	1.1	11	7
277	18	16 58 04.3	38.28S	175.79E	225	3.9	1.1	9	6
278	18	17 12 26.9	44.92S	167.23E	12 R	3.7	1.1	11	6
279	19	11 26 48.2	41.70S	173.35E	33 R	3.9	2.3	19	9
280	22	03 57 56.4	33.93S	177.89W	292	5.8	1.5	16	12
281	22	06 40 47.5	34.08S	177.73W	309	5.4	2.2	16	11
282	22	18 06 43.9	36.76S	177.71E	256	4.1	2.4	11	7
283	22	23 15 43.5	39.94S	174.34E	140	4.7	1.9	15	8
284	23	03 39 35.8	38.52S	175.47E	197	4.4	1.9	14	8
285	23	03 19 36.6	40.36S	172.40E	33 R	3.8	1.4	9	6
286	24	10 18 44.3	39.09S	174.58E	12 R	3.7	1.9	12	6
287	24	16 34 14.7	44.15S	167.52E	12 R	4.2	2.4	13	7
288	25	04 42 44.4	39.37S	175.16E	122	4.6	1.4	15	9
289	26	11 56 56.0	36.41S	178.39E	257	4.2	0.9	12	8
290	27	01 25 26.9	38.19S	176.24E	213	3.9	1.8	14	9
291	27	02 36 54.7	38.48S	175.88E	200	5.1	1.8	17	9
292	27	14 34 00.8	44.46S	167.56E	12 R	4.2	2.2	14	8
293	27	17 15 52.3	45.12S	167.68E	120	3.6	1.5	10	6
294	27	19 47 29.1	35.71S	176.78E	12 R	4.1	1.0	9	5
295	28	02 49 56.1	44.48S	167.55E	12 R	4.3	1.5	14	8
296	28	19 17 37.9	38.20S	176.37E	220	4.3	1.9	12	8
297	29	05 37 07.1	39.00S	177.96E	12 R	4.0	1.6	13	9
298	29	18 45 16.4	38.32S	179.44W	12 R	4.2	2.2	11	6
299	29	19 07 27.2	38.64S	175.52E	205	3.9	1.7	11	7
300	30	01 01 17.1	33.38S	178.96W	296	5.2	1.8	13	9

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NJM OBS	NUM STN
67/ 301	JUL 30	10 47 52.2	42.92S	173.20E	33 R	2.7	1.4	5	3
302	30	19 10 50.2	33.91S	178.36W	267	4.9	2.5	13	9
303	30	20 45 10.2	38.48S	179.15E	33 R	4.0	1.7	12	5
304	31	23 00 43.8	39.12S	173.23E	33 R	4.1	2.3	12	7
305	AUG 01	12 44 29.0	37.06S	176.89E	346	3.8	0.9	6	4
306	01	13 33 13.4	39.11S	173.77E	12 R	3.5	0.8	14	6
307	01	19 18 08.6	33.83S	179.86W	347	5.2	2.1	19	12
308	02	07 31 34.6	42.81S	173.21E	12 R	4.4	0.8	19	12
309	02	16 42 44.6	37.16S	177.75E	232	4.0	1.3	7	4
310	03	05 51 38.8	38.59S	176.15E	123	4.1	1.3	6	4
311	03	11 08 41.2	33.30S	179.86E	391	4.7	2.2	13	9
312	03	13 34 32.5	38.61S	175.90E	164	5.0	1.4	14	11
313	05	08 25 55.6	38.68S	179.10E	33 R	4.5	1.2	11	7
314	06	11 18 17.7	35.05S	179.03W	176	4.8	1.5	12	9
315	06	15 39 04.3	40.30S	174.18E	93	4.0	0.9	13	8
316	06	21 00 35.1	38.13S	177.09E	12 R	4.9	1.6	22	11
317	06	23 13 12.0	38.20S	176.67E	101	4.0	1.5	8	7
318	07	14 39 41.4	44.94S	168.78E	12 R	4.0	0.9	8	4
319	08	01 32 11.6	36.06S	177.76W	163	4.8	2.1	15	10
320	08	16 24 15.5	38.53S	175.99E	171	4.0	0.9	10	6
321	09	00 13 12.4	41.34S	173.88E	33 R	3.9	1.4	14	8
322	09	12 47 30.0	38.80S	176.38E	115	4.6	1.1	12	9
323	09	13 15 30.7	38.42S	178.51E	33 R	4.4	1.4	11	9
324	09	16 20 13.7	38.53S	178.81E	33 R	4.5	1.8	15	10
325	10	04 55 26.4	37.82S	177.55E	33 R	4.0	0.9	11	6
326	10	06 50 52.3	38.48S	178.51E	33 R	4.6	1.1	14	9
327	10	12 50 39.2	38.85S	175.81E	173	4.2	0.9	11	7
328	10	17 55 59.0	40.28S	173.94E	153	4.0	1.8	16	9
329	11	22 20 34.0	38.70S	176.10E	12 R		RI	0	2
330	11	22 20 38.0	38.70S	176.10E	12 R	2.5	RI	0	2
331	11	22 20 57.0	38.70S	176.10E	12 R		RI	0	1
332	11	22 26 07.0	38.70S	176.10E	12 R		RI	0	1
333	11	22 26 53.0	38.70S	176.10E	12 R	2.8	RI	0	2
334	12	05 54 21.1	40.01S	175.29E	33 R	3.8	1.9	9	5
335	12	18 50 43.8	33.49S	178.17W	321	5.1	1.2	8	6
336	12	18 52 37.9	33.31S	178.76W	396	5.0	ND	4	5
337	12	20 03 55.8	33.33S	178.06W	338	5.4	0.7	7	5
338	14	04 23 48.3	38.48S	176.88E	33 R	4.7	0.9	14	9
339	15	06 54 59.3	38.78S	175.56E	176	4.5	1.3	11	7
340	17	22 54 47.9	41.15S	175.43E	33 R	3.9	1.1	10	6
341	19	15 55 05.8	37.78S	176.39E	218	4.4	1.1	11	8
342	19	20 57 36.2	43.92S	167.12E	12 R	4.6	1.8	12	9
343	20	16 35 50	NEAR HOKITIKA			2.5			
344	22	10 17 26.7	35.20S	180.00E	302	4.5	1.1	7	6
345	22	11 26 47.0	31.76S	179.58E	227		2.8	11	8
346	22	20 37 02.4	40.77S	173.74E	91	4.3	0.6	12	7
347	24	12 01 33.7	38.39S	176.02E	163	5.1	1.1	16	12
348	25	21 54 36.3	39.33S	174.71E	193	4.2	0.9	12	9
349	25	22 53 00.9	44.85S	167.23E	12 R	4.2	1.4	7	3
350	26	02 27 59.3	46.38S	166.16E	33 R	4.7	1.0	12	7

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S ER SEC	NJM OBS	NUM STN
67/ 351	AUG 26	11 45 40.4	46.43S	166.07E	33 R	4.2	0.2	5	3
352	27	11 25 06.8	46.31S	166.15E	33 R	4.1	1.8	8	4
353	27	21 41 32.3	45.22S	166.64E	60	4.3	0.9	7	4
354	29	13 57 50.9	44.27S	167.36E	33 R	3.8	0.5	5	3
355	30	07 26 29.6	41.09S	175.78E	12 R	4.4	0.7	9	6
356	30	11 31 42.4	41.18S	174.55E	79	4.4	1.1	13	9
357	31	05 45 47.6	38.39S	175.85E	183	4.1	0.7	12	7
358	31	13 15 25.3	36.94S	178.99E	134	4.3	1.5	9	8
359	SEP 01	07 06 16.1	34.01S	178.66W	33 R	5.0	1.7	12	10
360	01	23 39 00.0	34.10S	178.68W	33 R	5.2	1.2	15	13
361	02	01 24 16.0	34.06S	178.61W	205	5.3	1.5	14	12
362	02	06 56 51.5	33.89S	178.35W	33 R	5.2	1.8	11	12
363	02	11 52 23.6	40.32S	176.29E	33 R	3.5	0.5	9	7
364	03	23 08 38.2	39.26S	174.74E	220	4.7	1.4	18	11
365	07	11 44 46.7	39.30S	175.51E	33 R	3.6	0.5	9	5
366	08	07 39 31.5	39.10S	174.81E	242	4.5	1.5	20	12
367	10	08 07 05.3	46.54S	165.88E	33 R	4.5	1.5	11	7
368	11	15 37 34.0	37.67S	178.00E	130	5.2	2.1	21	16
369	11	17 16 24.8	45.11S	167.61E	101	4.0	2.0	9	6
370	12	06 43 40.4	40.08S	176.13E	33 R	4.1	1.2	19	11
371	13	02 33 28.3	37.16S	178.43E	12 R	4.2	2.7	9	7
372	14	07 38 33.5	38.67S	175.84E	153	4.1	2.2	13	10
373	14	10 26 40.8	45.48S	166.28E	33 R	4.0	2.1	9	7
374	14	11 57 27.8	41.95S	174.52E	33 R	3.5	0.5	6	5
375	15	19 19 25.1	42.57S	173.35E	12 R	4.1	1.3	18	11
376	16	05 22 29.3	43.28S	170.88E	12 R	4.1	1.6	19	11
377	16	23 31 28.7	30.99S	177.45E	339	6.2	2.2	14	11
378	17	03 32 31.8	44.34S	167.80E	12 R	4.2	1.0	8	6
379	17	10 25 25.7	44.50S	169.87E	12 R	3.8	2.3	13	8
380	18	13 06 49.7	46.47S	166.71E	33 R	3.8	2.1	9	5
381	21	09 21 50.2	38.50S	176.38E	12 R	4.1	1.5	12	9
382	21	17 45 45.6	40.79S	175.09E	33 R	5.2	1.8	26	16
383	21	17 49 02.0	40.73S	175.03E	12 R	3.4	1.1	7	4
384	21	18 00 33.9	40.67S	174.95E	12 R	4.1	0.8	10	8
385	21	19 04 10.6	40.71S	175.02E	12 R	3.4	1.0	9	5
386	21	19 15 19.0	36.21S	179.13W	361	4.5	1.8	11	9
387	21	21 14 57.7	40.71S	174.99E	12 R	3.4	0.9	9	6
388	22	11 24 01.9	40.88S	175.03E	12 R	3.3	1.2	10	6
389	22	21 14 24.3	40.93S	175.44E	33	3.5	1.0	9	6
390	23	01 59 33.3	39.44S	176.61E	119	5.1	1.4	22	16
391	26	02 46 23.6	38.04S	176.44E	196	4.4	1.5	14	9
392	28	16 20 12.7	38.09S	176.85E	135	4.3	1.3	11	10
393	28	17 22 29.2	38.36S	176.04E	171	3.8	1.3	11	7
394	30	03 04 39.8	40.68S	173.24E	151	4.1	1.6	16	9
395	OCT 01	04 52 20.3	39.13S	177.66E	33 R	4.4	2.1	29	15
396	01	09 53 09.5	40.90S	175.95E	12 R	3.0	1.3	9	4
397	01	21 16 48.1	38.29S	176.23E	168	4.0	1.2	16	11
398	02	11 28 14.4	33.00S	178.60W	33 R			0	6
399	02	21 56 36.2	39.14S	174.96E	215	3.7	0.8	14	9
400	03	19 12 13.7	44.69S	167.72E	12 R	4.8	1.9	35	14

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S ER SEC	NJM OBS	NUM STN
67/ 401	OCT 03	19 41 08.2	44.64S	167.56E	12 R	3.4	1.4	11	4
402	04	08 20 04.0	50.00S	164.00E	33 R	4.2	3	0	5
403	05	03 22 54.7	38.22S	176.36E	242	4.7	1.2	21	13
404	05	05 03 17.9	43.65S	169.54E	12 R	3.2	1.5	12	5
405	05	15 31 31.3	38.99S	174.01E	12 R	3.8	1.7	32	13
406	05	22 45 30.4	36.45S	178.24E	278	4.1	1.7	16	11
407	06	19 07 08.3	39.66S	174.72E	141	4.0	1.3	18	12
408	07	03 08 03.6	48.94S	163.61E	33 R	4.0	2.4	6	4
409	07	04 00 04.3	39.88S	175.00E	33 R	4.0	1.9	25	13
410	08	11 30 50.6	38.76S	175.16E	229	3.7	0.9	12	8
411	08	20 51 12.4	37.78S	178.66E	12 R	4.4	2.5	44	19
412	09	20 57 13.8	37.75S	178.64E	12 R	3.9	2.1	22	13
413	08	21 39 14.9	37.81S	178.73E	12 R	4.1	3.0	36	17
414	10	12 09 02.0	38.02S	176.89E	12 R	4.1	1.5	22	14
415	10	23 31 10.9	34.85S	179.90E	33 R	4.0	2.7	17	9
416	11	05 56 26.9	37.64S	176.48E	243	3.9	0.7	15	11
417	11	15 32 03.1	45.02S	167.86E	12 R	4.7	1.5	33	17
418	11	18 06 03.3	38.34S	175.89E	199	3.8	1.3	16	10
419	11	20 44 30.5	41.13S	174.13E	12 R	3.5	2.2	20	10
420	12	12 27 25.9	39.80S	174.69E	12 R	3.8	3.1	23	12
421	12	16 31 28.0	44.15S	168.81E	12 R	4.7	1.5	35	15
422	15	05 15 03.2	41.79S	174.33E	12 R	3.7	2.5	35	12
423	15	15 38 43.8	41.95S	174.44E	12 R	3.7	2.8	31	12
424	15	20 30 40.9	33.95S	178.96E	261	5.0	2.5	20	13
425	17	17 05 59.3	33.33S	179.78W	278	4.9	1.8	19	13
426	18	22 06 23.7	34.02S	178.79W	33 R	6.0	3.4	33	19
427	18	22 23 44.6	34.22S	179.31W	33 R	4.7	2.7	20	15
428	18	23 08 51.3	34.25S	179.37W	33 R	4.2	3.3	14	9
429	19	00 02 33.6	38.37S	176.17E	182	4.0	1.7	18	12
430	19	03 55 45.1	33.70S	178.64W	33 R	4.4	3.2	20	12
431	19	04 31 04.0	40.14S	173.67E	220	3.7	1.3	13	10
432	19	16 46 48.7	44.97S	167.51E	90	4.0	1.0	11	7
433	20	19 18 53.5	37.73S	176.31E	314	4.7	0.7	23	14
434	21	11 38 24.0	44.98S	167.69E	70	4.0	1.6	13	8
435	21	17 51 29.5	36.47S	177.99E	277	4.2	0.7	17	10
436	21	20 34 54.3	49.64S	162.50E	33 R	4.3	4.2	8	6
437	21	21 33 08.6	49.47S	161.99E	33 R	4.3	4.9	10	7
438	22	21 52 11.6	40.46S	175.44E	12 R	3.7	2.4	18	8
439	24	03 12 15.4	38.17S	176.04E	221	4.0	1.4	17	9
440	25	09 16 18.3	37.17S	177.21E	233	5.3	1.3	31	19
441	27	22 54 22.4	37.48S	176.93E	12 R	4.3	3.0	20	13
442	31	10 09 19.6	40.10S	174.92E	12 R	3.6	1.2	16	9
443	31	10 09 56.8	40.09S	174.96E	12 R	3.9	1.7	15	10
444	31	14 56 16.4	45.10S	167.86E	12 R	3.9	2.3	14	8
445	31	17 22 55.4	38.73S	176.27E	12 R	3.3	2.2	12	6
446	NOV 02	09 23 27.4	37.81S	176.39E	200	4.5	1.4	18	12
447	03	00 50 19.7	39.33S	176.95E	12 R	4.1	0.7	11	10
448	03	19 41 06.8	44.97S	167.67E	33 R	4.0	1.3	10	6
449	05	01 03 14.9	40.12S	174.81E	12 R	4.0	1.2	10	7
450	05	02 33 33.8	39.04S	174.71E	205	4.1	1.4	14	11

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NJM OBS	NUM STN
67/ 451	NOV 07	05 16 10.0	41.84S	173.78E	12 R	4.4	1.3	19	9
452	07	05 17 10.9	41.76S	173.73E	12 R	4.2	1.2	8	6
453	07	12 35 57.9	39.03S	175.07E	215	4.2	1.5	15	10
454	08	08 31 43.1	45.16S	167.53E	84	4.5	1.7	11	8
455	08	11 34 07.3	38.53S	176.02E	172	5.0	1.5	20	13
456	09	21 40 19.4	41.98S	173.69E	12 R	4.6	0.8	19	10
457	11	11 10 10.0	37.81S	176.23E	314	4.5	0.5	15	10
458	11	18 58 11.2	40.91S	175.75E	12 R	5.2	1.4	23	13
459	11	19 23 53.2	40.90S	175.48E	12 R	3.9	1.4	9	6
460	11	21 26 42.6	40.87S	175.68E	12 R	3.8	2.0	7	4
461	12	09 24 57.8	40.90S	175.67E	12 R	2.9	1.5	4	3
462	12	11 10 02.0	40.86S	175.65E	12 R	2.7	ND	3	2
463	13	03 15 26.2	40.92S	175.56E	12 R	3.5	1.4	9	5
464	13	09 00 25.1	41.60S	173.79E	12 R	4.6	1.8	20	10
465	13	10 09 10.5	35.81S	178.42E	253	4.7	1.5	13	9
466	13	15 43 41.5	38.20S	176.54E	158	4.5	0.9	13	10
467	15	05 04 31.9	41.35S	172.59E	210	3.9	1.7	12	8
468	15	12 00 11.9	40.79S	176.16E	12 R	3.7	2.2	8	5
469	15	23 31 43.5	34.62S	179.84E	350	4.9	1.5	21	13
470	16	01 17 52.0	30.45S	178.50W	280	6.1	3.0	16	12
471	15	07 28 18.5	40.90S	175.66E	12 R	3.5	1.4	9	5
472	20	09 52 39.4	41.32S	172.57E	236	3.9	1.2	13	8
473	21	04 12 18.8	40.21S	176.50E	33 R	4.1	1.2	18	10
474	21	20 47 13.2	40.86S	175.91E	12 R	4.0	2.5	13	7
475	22	21 31 37.9	37.06S	177.57E	228	4.4	0.7	14	10
476	25	17 30 22.0	44.53S	170.02E	12 R	3.9	2.0	10	8
477	25	22 19 44.4	49.27S	163.85E	33 R	4.5	0.9	8	5
478	28	04 17 06.3	34.35S	173.49E	12 R	3.9	1.8	11	6
479	30	19 56 24.8	33.71S	178.33W	320	5.0	1.2	10	8
480	DEC 01	05 25 07.4	39.14S	175.49E	139	4.0	2.0	11	7
481	01	23 38 44.6	39.23S	174.81E	212	4.9	1.5	19	10
482	02	02 16 05.6	37.94S	177.56E	33 R	3.9	2.3	15	9
483	02	13 34 16.5	42.42S	172.86E	12 R	4.4	2.3	30	15
484	02	17 22 35.5	38.83S	175.66E	180	5.5	1.7	23	14
485	03	12 47 01.3	37.44S	176.71E	266	4.2	1.0	14	10
486	05	20 23 20.0	34.31S	178.08W	281	5.2	1.2	14	10
487	06	15 47 12.8	37.29S	176.87E	324	4.6	0.7	15	10
488	07	05 28 29.9	37.72S	177.41E	33 R	3.8	2.7	6	4
489	10	17 55 07.4	38.27S	176.10E	163	4.0	1.9	15	8
490	10	18 34 05.6	41.48S	172.88E	109	4.2	1.9	20	12
491	10	21 16 33.8	46.14S	165.90E	33 R	4.0	2.1	11	6
492	10	23 53 32.5	46.16S	165.75E	33 R	4.0	2.0	9	5
493	11	08 00 29.9	40.91S	174.51E	12 R	4.1	1.3	15	8
494	12	00 56 57.3	40.35S	175.02E	12 R	3.9	2.5	12	8
495	13	21 07 07.1	40.10S	175.09E	33 R	3.9	1.5	12	6
496	14	07 45 54.6	38.05S	177.32E	33 R	4.4	1.7	17	11
497	14	18 06 28.9	40.16S	175.01E	12 R	3.9	1.8	8	4
498	15	04 18 11.6	44.94S	167.65E	106	4.6	2.1	15	10
499	15	09 28 32.1	38.44S	175.92E	167	4.1	1.2	13	9
500	16	12 58 18.8	38.79S	175.72E	169	4.6	1.5	16	10

REF NUM		ORIGIN TIME H M S	LAT DEG	LONG DEG	DEPTH KM	MAG	S E SEC	NJM OBS	NUM STN
67/ 501	DEC 16	19 32 48.6	38.78S	175.66E	161	3.9	2.2	12	8
502	16	20 37 08.9	39.76S	174.27E	132	4.2	1.1	10	8
503	17	10 37 23.1	37.51S	176.43E	245	4.9	1.4	18	12
504	18	01 07 45.6	47.51S	165.72E	33 R	5.3	1.3	15	11
505	18	02 48 06.4	38.19S	176.14E	173	4.0	1.3	10	7
506	20	11 26 31.5	40.40S	175.00E	12 R	3.0	3	0	2
507	20	14 56 30.2	39.99S	175.12E	12 R	4.7	2.2	30	14
508	21	10 07 50.9	38.30S	177.22E	33 R	3.9	2.9	14	8
509	21	18 57 09.6	37.74S	176.45E	226	4.3	2.3	15	9
510	21	22 38 09.9	47.19S	165.40E	33 R	4.6	1.3	13	9
511	22	11 36 37.3	32.99S	179.33W	460	5.0	3.0	12	9
512	22	12 16 14.2	38.04S	176.62E	177	3.8	1.1	11	7
513	22	21 58 21.3	44.87S	167.57E	69	4.0	1.3	13	8
514	23	22 41 02.0	38.22S	176.11E	193	4.3	1.9	16	10
515	24	02 36 08.4	39.11S	177.59E	33 R	4.0	1.3	15	9
516	24	11 55 25.2	39.09S	175.65E	84	3.2	1.7	9	7
517	24	14 39 07.7	40.32S	175.62E	12 R	5.1	2.0	24	13
518	24	19 15 00.6	33.00S	179.22E	272	4.7	2.5	13	9
519	25	16 03 04.8	39.16S	175.28E	160	3.9	2.1	15	8
520	26	08 15 42.7	39.25S	176.35E	100	4.7	1.7	20	14
521	26	14 18 04.4	35.69S	178.24E	294	4.4	2.1	16	11
522	27	01 44 29.8	37.74S	176.43E	219	4.2	1.2	13	8
523	27	02 07 11.3	38.88S	175.19E	224	4.1	1.1	13	8
524	27	03 57 03.0	40.23S	177.07E	12 R	4.0	1.4	11	8
525	28	02 51 56.1	37.71S	177.28E	90	3.7	1.6	10	7
526	29	08 25 31.2	38.99S	175.70E	134	3.9	2.0	13	9
527	30	07 10 14.4	39.55S	174.26E	202	4.5	1.6	17	10
528	31	18 26 08.9	44.01S	168.81E	33 R	3.5	2.3	10	7
529	31	22 13 36.2	38.41S	175.84E	216	4.3	1.3	15	10

STATION READINGS FOR

NEW ZEALAND EARTHQUAKES

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

The earthquake origins are determined using the phases Pn, P* and Pg, and the corresponding S phases. In computing travel times, it is assumed that the New Zealand crust is 33 km thick, and is divided into two uniform layers by a discontinuity at a depth of 12 km. Above the discontinuity the velocities of P and S are 5.5 and 3.3 km/sec respectively (Pg and Sg) and below it they are 6.3 and 3.7 km/sec (P* and S*). Travel times for Pn and Sn waves, which travel in the mantle, are derived from the Jeffreys-Bullen "Seismological Tables" (British Assn. for the Advancement of Science, 1958), but modified by multiplying the times by 0.96. Several studies have shown that times in the table are too great to fit New Zealand observations. The result of applying this correction is to raise the adopted Pn velocity from about 7.8 to 8.1 km/sec, and the Sn velocity from about 4.4 to 4.6 km/sec. These values are close to those reported.

In general, all four parameters of the earthquake origin are calculated (origin time, latitude, longitude, and focal depth). In some cases however, the focal depth is not allowed to vary, but is restricted to a certain depth. The restrictions are as follows:

(1) Depth is restricted to 12 km if Pg or Sg phases are identified.

(2) Depth is restricted to 33 km if:

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

Parameters that have been restricted are identified by the letter R appearing in the place where the standard error is usually printed.

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

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

EXPLANATION OF DATA

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

The standard error is derived from the equation

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

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

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

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

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

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

57/ 001

	H	M	S										
JAN 02	06	35	08.3	39.80S	174.12E	154 KM	SE	1.0	AV3	MA3		4.1	
	+-		0.6	0.03	0.03	6							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	EP		06	35	31		-0.0	0.65	19		3.6	3.4
		ES				48.5		-0.1					
		E			36	08							
	MNG	IP		06	35	37.7	D	1.0	1.33	128		4.8	4.3
		E				38.4							
		E				53							
		ES				58		-0.5					
	WEL	P		06	35	41.0		1.9	1.56	162	4.1	4.5	4.6
		ES			36	03		0.2					
	COB	P		06	35	40.7		0.6	1.66	219	4.2		
		S			36	04.2		-0.5					
	KRP	EP		06	35	47		0.9	2.18	31		3.3	3.4
		E				57							
		ES			36	15		-0.2					
	TUA	E		06	36	08.8			2.56	68			4.1
	GNZ	EP		06	35	59		-0.7	3.25	70		3.8	4.2
		E			36	31							
		ES				38		-1.1					
	KAI	ES		06	36	41.5		-1.1	3.40	216	4.1		
	GPZ	EP		06	36	09.5		-0.5	4.04	195	4.5		
		ES				52		-5.5*					

57/ 002

	H	M	S										
JAN 02	07	46	39.9	47.53S	164.82E	33 KM	SE	2.2	AV3	MA3		4.0	
	+-		2.5	0.17	0.11	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	PN		07	47	17.2		-1.6	2.60	49		3.9	4.0
		ESN				51		2.6					
	WPZ	PN?		07	47	23.7		1.0	2.89	74		4.1	4.2
		E				27							
		ESN				56		0.7					
	MSZ	EPN		07	47	31		-1.2	3.58	38		3.9	4.0
		E				36.4							
		SN			48	13.8		1.6					
		E				19.2							
	MJZ	EPN		07	47	57		1.3	5.30	50		3.5	3.4
		E			48	05							
		ESN				53		-1.0					
		E			49	14							
	GPZ	ESN		07	49	24		-3.3	6.69	58	4.6		
		E			50	09							

57/ 003

	H	M	S										
JAN 03	00	10	11.1	38.68S	175.78E	174 KM	SE	0.8	AV3	MA3		3.7	
	+-		0.9	0.03	0.03	6							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP		00	10	37		0.2	0.77	346		3.3	2.9
		ES				56		-0.7					
	TUA	EP?		00	10	40		0.9	1.08	97		3.4	3.8
		ES			11	01		0.4					
	TNZ	ES		00	11	03		0.5	1.20	245			3.2
	GNZ	EP		00	10	46.0		0.5	1.76	90		3.9	3.7
		ES			11	11		-1.0					
		E				14.5							
	MNG	IP		00	10	47.9	U	0.3	1.95	187		3.9	3.9
		S			11	16.2		0.5					
	WEL	P		00	10	56.0		-0.7	2.72	196	4.0	4.5	4.3
		ES			11	31		-0.8					
	MJZ	E		00	12	45			6.64	215			
		ES				56		-6.2*					

57/ 004

	H	M	S										
JAN 03	07	31	39.5	40.12S	175.01E	12 KM	SE	1.9	AV3	MA3		3.9	
	+-		0.5	0.02	0.03	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*		07	31	50.3	U	-0.7	0.61	144		4.1	4.2
		S*				57.5		-2.1					
	TNZ	PN		07	32	01.0		1.1	1.05	332		3.4	3.5
		ES*				15		2.2					
	WEL	P*		07	32	01.3		0.6	1.18	189		4.3	4.6
		ES*				18		1.5					
	COB	EP*		07	32	16		1.5	1.98	240	3.3		
		ES*				41		0.3					
	TUA	EPN		07	32	15		1.1	2.12	52		3.9	3.8
		ESG				51		0.1					
	KRP	EPN		07	32	15.5		-0.0	2.23	11		4.0	3.7
		EP*				18		-0.8					
		ES*				45		-3.3					
		ESG				52		-2.9					
	GNZ	EP*		07	32	29		1.1	2.76	59		3.9	3.7
		ESG			33	16		3.3					
	KAI	E		07	33	24			3.62	227	3.9		
	GPZ	ESN		07	33	22		-2.7	3.98	206	3.9		
	MJZ	EP*		07	33	14		5.6*	5.13	220		3.5	3.7
		ESN				52		-0.4					
	FELT TE MARAE (56) MM IV												

57/ 005

	H	M	S										
JAN 03	15	28	26.9	44.34S	171.06E	33 KM	SE	1.2	AV3	MA3		3.4	
	+-		0.4	0.03	0.03	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ	PN		15	28	36.2	DNE	-1.5	0.55	310		3.2	3.3
		ESN				44.5		-1.0					
	GPZ	EPN		15	28	48		-0.2	1.32	61	3.4		
		ESN			29	04.5		0.4					
	ROX	EPN		15	28	54		0.8	1.68	227		3.6	3.7
		ESN			29	13.5		0.6					
		ES*				18		-1.4					
	KAI	EPN		15	28	54.5		-0.8	1.83	8	3.0		
		ESN			29	18		1.3					
	MSZ	PN		15	29	00.9		-0.4	2.27	261		4.1	3.7
		P*				08.0		0.9					
		S*				38.9		1.8					
	MNW	E		15	29	14			2.83	238		3.4	3.0
		EP*				16		-0.6					
		ESN				45		4.1*					
	FELT TIMARU (118) MM IV												

57/ 006

	H	M	S										
JAN 04	01	15	21.6	41.11S	175.79E	12 KM	SE	2.4	AVG	MAG		4.1	
	+-		1.0	0.06	0.06	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*		01	15	33.8	D	1.9	0.54	334			
	WEL	IP*		01	15	37.9	D	1.7	0.79	257	3.9	4.3	4.5
		ES*				46		-1.1					
	TNZ	EPN		01	16	00		2.8	2.20	330		4.3	4.3
		S*				28.4		-1.0					
	COB	EPN		01	16	01		2.3	2.31	270	3.9		
		ESN				25		-1.3					
	TUA	EPN		01	16	03		1.3	2.52	25		3.8	3.9
		EPG				14.5		1.9					
		ESN				33		1.1					
	GNZ	EPG		01	16	21		-1.3	3.00	36		3.9	3.8
		ES*				50		-3.4					
	KRP	EP*		01	16	15.5		-1.7	3.19	356		4.2	4.2
		PG				19.7		-6.3*					
		ES*				58		-0.9					

	GPZ	SN	01 16 51		-3.7	3.48	221	3.7			
	KAI	EPG	01 16 38		4.2	3.57	245	3.9			
		E	44								
		ES*	17 07.5		-3.0						
		ESG	22		0.1						

57/ 007

	H	M	S										
JAN 05	02	27	59.7	38.77S	175.88E	134 KM	SE	0.7	AVG	MAG	4.2		
			+- 0.7	0.02	0.02	6							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P		02	28	22.0	D	-0.2	0.89	342		3.8	
		ES				39		-0.5					
	TUA	P		02	28	23.5		0.4	0.99	92		4.5	4.3
		S				41.2		0.1					
	TNZ	EP		02	28	27		1.3	1.24	250		3.7	
	GNZ	P		02	28	30.4	U	-0.1	1.68	86		4.4	4.2
		E				50.8							
		ES				54		-0.0					
	MNG	P		02	28	33.2		0.5	1.87	189		4.1	3.9
		ES				58		0.1					
	WEL	EP		02	28	42		-0.9	2.65	198		4.7	4.1
		E				55							
		ES				29 15		-0.7					
	KAI	E		02	30	50			5.06	221	4.5		
	GPZ	ES		02	30	16.5		-6.5*	5.49	205	4.5		
	MJZ	ES		02	30	44		-6.0*	6.61	216			

57/ 008

	H	M	S										
JAN 05	06	14	44.8	34.65S	179.61E	310 KM	SE	1.3	AVG	MAG	5.1		
			+- 1.2	0.07	0.13	9							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		06	15	44		0.7	3.16	196		5.1	5.1
		ES			16	29		0.0					
	GNZ	P		06	15	54.0	U	-0.1	4.19	197		4.9	5.0
		ES			16	49		0.6					
	ONE	EP		06	15	55		-1.9	4.44	254	4.8		
	AUC	P		06	15	58.4	U	0.7	4.51	239		6.1	
	TUA	EP		06	15	58		-0.7	4.60	205		4.7	4.8
		ES			16	56		-0.6					
	KRP	P		06	16	00.1	U	0.9	4.64	224		4.9	
	TNZ	EP		06	16	19		1.9	6.17	221			
	MNG	P		06	16	23.3		-1.4	6.80	208			
		E				26							
		ES			17	37		-6.0*					
	WEL	EP		06	16	33		-2.0	7.65	209			
		ES			18	02		0.4					
	KAI	ES		06	18	58		1.3	10.15	217	5.3		
	GPZ	EP		06	17	11		0.8	10.53	209	5.5		
		ES			19	03		-2.0					
	MJZ	EP		06	17	26		1.4	11.70	214			
		ES			19	31		0.0					

57/ 009

	H	M	S										
JAN 05	09	37	26.0	41.10S	175.00E	12 KM	SE	ND	AVG	MAG	2.5		
			R	R	R	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	P*		09	37	31.3		-0.2*	0.26	223	1.9		
		ES*				36		0.6*					
	MNG	P*		09	37	36.8		-0.6*	0.60	37		2.9	2.9
		ES*				45		-0.8*					

FELT IN THE HUTT VALLEY (68 AND 69)

57/ 010

	H	M	S										
JAN 06	20	54	15.1	37.32S	177.32E	272 KM	SE	2.1	AVG	MAG	4.4		
			+- 2.0	0.14	0.11	15							

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP	20	54	56		3.0	1.05	111		4.4	4.4
		E		55	14							
		ES			21		-1.5					
		E			35							
	GNZ	IP	20	54	56.9	D	1.3	1.43	157		4.7	4.9
		E		55	20							
		ES			27.5		0.9					
	TUA	EP	20	54	56		0.0	1.49	185		4.8	4.5
		E			58.7							
		E		55	21							
		ES			26		-1.3					
	KRP	P	20	54	53.2	U	-3.1	1.54	246		3.8	3.6
	TNZ	EP	20	55	10		0.9	2.97	230		3.9	3.6
		ES			54.5		3.3					
	MNG	P	20	55	15.9		0.1	3.59	203			
		ES		56	03		-0.1					
	WEL	IP	20	55	25.4	U	0.0	4.43	206		4.7	4.6
		ES		56	19		-1.2					
	COB	ES	20	56	34		-2.2	5.18	222	4.5		

57/ 011

	H	M	S										
JAN 07	18	42	04.0	38.53S	175.93E	192 KM	SE	2.1	AVG	MAG	4.5		
			+- 1.4	0.07	0.06	11							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		18	42	31.0	D	-0.1	0.68	333		3.9	3.7
		ES				49		-3.1					
	TUA	P		18	42	34.3		1.3	1.00	107		4.7	4.7
		E				49.5							
		ES				55		-0.5					
	TNZ	EP		18	42	38		1.9	1.38	241		3.8	3.6
		ES			43	04		3.0					
	GNZ	EP		18	42	40		1.3	1.64	95		4.2	4.5
		ES			43	05		-0.4					
	MNG	P		18	42	45.8	U	2.3	2.11	189		5.0	4.6
		S			43	14.2		0.3					
	ECZ	P		18	42	45.7		1.0	2.23	69		4.9	4.4
		ES			43	14		-2.1					
	WEL	IP		18	42	54.0	D	1.4	2.89	198	4.6	4.7	4.8
		ES			43	30		-0.1					
	KAI	ES		18	44	20.5		-2.8	5.27	219	4.6		
	GPZ	EP		18	43	28		-0.4	5.73	205	5.1		
		ES			44	31		-2.9					

57/ 012

	H	M	S										
JAN 09	09	55	28.7	33.45S	179.40W	33 KM	SE	3.4	AVG	MAG	4.6		
			+- 3.0	0.15	0.21	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EPN		09	56	34		-0.5	4.56	201		5.1	4.7
		E			57	21							
		ESN			31		6.1						
		E			58	01.5							
	GNZ	EPN		09	56	45.5		-2.9	5.59	201		4.6	4.4
		ESN			57	51		1.1					
	ONE	EPN		09	56	53		3.9	5.65	244	4.5		
	TUA	EPN		09	56	53		-1.4	6.04	207			
		ES*			58	32		0.0					
	KRP	PN		09	56	55		0.0	6.08	221			
		E			58	22							
	MNG	EPN		09	57	21		-3.1	8.25	208			
		E			58	44							
		ES*			59	34		-4.3					
	CIZ	ESN		09	59	53		1.0	10.72	169			

57/ 013

	H	M	S										
JAN 09	13	31	16.1	41.79S	174.42E	12 KM	SE	2.2	AVG	MAG	4.6		
			+- 0.6	0.04	0.04	R							

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP*	13	31	26.8	USW	-0.1	0.56	28	4.6	4.8	4.7
		S*			35.5		0.8					
	MNG	IPN	13	31	41.2	D	-0.1	1.42	35		5.0	
	COB	IPN	13	31	39.2	E	-2.6	1.45	298	4.5		
		ESN			57		-3.7					
		ES*		32	00		-1.3					
	GPZ	EP*	13	31	52.5		-4.3	2.31	214	4.1		
		ESN		32	15		-5.9*					
		ESG			33		-1.2					
	KAI	EPN	13	31	54		0.1	2.36	251	4.5		
		EP*		32	00		2.4					
		ES*			31		2.3					
	TNZ	EPN	13	32	00		2.7	2.60	359		4.6	4.7
		EPG			08		-0.7					
		E			16							
		ES*			38		2.1					
		E			57							
	TUA	EP*	13	32	17		-2.4	3.63	36		4.7	4.7
		E			23							
		ES*		33	09		2.0					
	MJZ	EPN	13	32	12		0.6	3.64	232		4.3	4.0
		EP*			22.5		2.9					
		ES*		33	09		1.7					
	KRP	EPN	13	32	17.5		2.0	3.95	13		4.9	4.6
		P*			24.4		-0.5					
		E			31.5							
		E		33	11							
	GNZ	EPG	13	32	38		-2.6	4.18	42		4.5	4.4
		E		33	42							
	CIZ	E	13	33	02			6.97	111			
		ESN		34	13		0.1					

FELT IN MARLBOROUGH AND WELLINGTON.MAX.MM IV

57/ 014

	H	M	S									
JAN 10	05	46	21.5	40.61S	175.97E	33 KM	SE	1.8		AV3	MA3	4.0
		+-	0.9	0.04	0.06	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*	05	46	30.7	D	0.6	0.37	269			
		ES*			35.5		-0.8					
	WEL	EP*	05	46	42.5		0.1	1.13	233	3.6	4.1	4.2
		E			51							
		ES*			58		0.1					
	TNZ	EPN	05	46	50.5		-0.0	1.88	319		4.0	4.2
		ESN		47	13		0.7					
	TUA	EPN	05	46	52		-0.5	2.02	27		4.0	3.9
		EPG		47	04							
		ESG			32							
		E			43							
	COB	EP*	05	47	08		2.4	2.50	258	3.5		
		E			18.5							
		ES*			35.5		-3.1					
	GNZ	ESN	05	47	25		-3.1	2.52	40			3.8
		E		48	16.5							
	KRP	EPN	05	47	04		2.1	2.70	353		3.9	4.1
		ESN			37		4.5*					
		ES*			45		0.3					
	GPZ	ESN	05	48	04		1.1	3.95	218	4.1		

FELT IN SOUTH CENTRAL PARTS OF NORTH ISLAND

57/ 015

	H	M	S									
JAN 10	22	12	41.5	38.72S	175.63E	188 KM	SE	2.1		AV3	MA3	4.3
		+-	1.7	0.08	0.08	13						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP	22	13	08.2	D	-0.6	0.79	355		4.5	3.2
		ES			27		-2.9					
	TNZ	EP	22	13	12.9	U	2.1	1.08	244		4.2	3.4

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
		ES			36		2.5					
	TUA	EP	22	13	12.7		1.0	1.19	95		4.0	4.6
		ES			33		-2.0					
	GNZ	EP	22	13	19		0.9	1.87	89		4.0	4.4
		E			40.5							
	MNG	P	22	13	20.4	U	2.0	1.90	183		4.7	4.5
		ES			47		0.1					
	WEL	EP	22	13	28.5		1.5	2.65	194	4.5	5.0	4.6
		ES		14	03		0.9					
	COB	ES	22	14	15		0.2	3.25	222	4.2		
	KAI	ES	22	14	51		-2.9	4.98	219	4.2		
	GPZ	EP	22	14	02		-0.3	5.46	203	4.8		
		ES		15	02.5		-2.6					

57/ 016

	H	M	S									
JAN 12	08	49	22.0	38.44S	176.06E	161 KM	SE	0.9		AV3	MA3	4.2
		+-	0.7	0.03	0.03	6						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP	08	49	45.6	DE	0.1	0.66	321		4.1	3.4
		ES		50	03		-0.7					
	CNZ	EP	08	49	47		0.2	0.85	208		4.0	
	TNZ	EP	08	49	54.5		1.8	1.51	240		3.6	
	GNZ	EP	08	49	53.5		0.4	1.55	98		4.3	4.0
		ES		50	17		-0.1					
	ECZ	EP	08	49	59		-0.2	2.10	70		4.3	4.0
		ES		50	27.5		-0.4					
	MNG	IP	08	50	01.1	U	0.5	2.22	192		4.8	4.3
		S			30.5		0.1					
	WEL	P	08	50	10.2		-0.3	3.01	199	4.3	5.0	4.5
		ES			48		0.3					
	KAI	ES	08	51	42		-1.5	5.40	220	4.3		
	GPZ	ES	08	51	48		-6.0*	5.85	205	4.6		

57/ 017

	H	M	S									
JAN 12	14	24	04.5	40.26S	175.09E	33 KM	SE	1.6		AV3	MA3	3.7
		+-	0.5	0.03	0.05	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	P	14	24	13.0		-1.2	0.47	140			
		ES			21.5		0.3					
	WEL	IP	14	24	21.9	D	-0.3	1.05	193	3.3	4.4	4.1
		ES			36		0.6					
	CNZ	IP	14	24	21.2	D	-1.8	1.12	19		3.8	3.8
		ES			37		0.1					
	TNZ	EP	14	24	22		-2.2	1.20	333		3.3	3.6
		ES			38		-1.0					
	COB	EP	14	24	36		1.2	1.97	244	3.1		
		ES			58		0.4					
	KRP	EP	14	24	41		0.9	2.36	9		3.5	3.8
		ES		25	10		3.0					

57/ 018

	H	M	S									
JAN 13	02	23	51.5	38.52S	175.78E	148 KM	SE	1.1		AV3	MA3	4.2
		+-	0.9	0.04	0.03	8						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP	02	24	12.8	DE	-0.8	0.62	342		3.6	3.5
		ES			30		-0.5					
	CNZ	IP	02	24	15.2	U	1.1	0.71	195		3.8	3.5
		E			41.5							
	TUA	EP	02	24	17.5		0.1	1.11	106		4.5	4.6
		E			19							
		ES			37		-0.2					
	TNZ	EP	02	24	20.8	U	1.7	1.28	238		4.0	3.2
		E			48							
	GNZ	EP	02	24	26		1.9	1.76	95		4.5	4.3
		ES			49.5		0.3					
	MNG	IP	02	24	29.0	U	0.7	2.11	186		4.8	4.4
		ES			56		-0.4					

ECZ	P	02 24 29.1	-1.9	2.33	70		5.1	4.2
	ES	25 01	-0.2					
WEL	P	02 24 37.0	-1.0	2.87	195		4.7	4.3
	ES	25 13	-0.5					
COB	ES	02 25 27	-0.4	3.48	221	4.4		
GPZ	S	02 26 15.7	-4.0*	5.69	204	4.6		

57/ 019

	H	M	S								
JAN 14	10	12	23.4	41.33S	174.29E	12 KM	SE	2.5	AVG MAG	3.6
			+_ 1.3	0.07	0.05	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP*	10	12	31.3	UN	0.6	0.36	83	3.9		
	S*			37.1		1.0					
MNG	IP*	10	12	45.6		1.4	1.15	52			
COB	EPG	10	12	47		-0.7	1.20	281	3.4		
	ESG		13	05		1.1					
TNZ	EPG	10	13	07		0.2	2.14	2		3.6	3.5
	ESG			39		3.3					
CNZ	EPG	10	13	07		-3.7	2.34	25		3.8	3.8
	ESG			44.5		2.3					
GPZ	ESN	10	13	30		-7.0*	2.66	207	3.3		
	E		14	23							
KRP	EPG	10	13	32		-2.9	3.53	16		3.4	3.5
	ESG		14	20		-2.6					

FELT OCEAN BAY (78) MM IV AND WELLINGTON

57/ 020

	H	M	S								
JAN 16	11	40	58.9	40.41S	175.53E	12 KM	SE	2.1	AVG MAG	5.0
			+_ 0.4	0.04	0.04	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IPG	11	41	08.2	U	4.5	0.21	190			
WEL	IP*	11	41	18.1	USW	0.2	1.05	213	5.2	5.2	
	ES*			32		-0.1					
CNZ	IPN	11	41	20.8	U	-0.5	1.21	1			
TNZ	IPN	11	41	24.5	U	-0.7	1.51	324			
TUA	PN	11	41	31.3		-0.8	2.03	39		4.5	5.4
	P*			33.3		-1.4					
	PG			37.2		-2.8					
	I			38.3							
	E			39.4							
COB	EPN	11	41	33		-1.8	2.23	251	4.7		
	EP*			37.9		-0.2					
	EPG			43.8		-0.2					
	E			50							
	ESN			59		-2.6					
GNZ	EPN	11	41	40		-0.2	2.61	48		5.3	5.2
	EPG			55		3.3					
ECZ	EPG	11	42	11		-0.4	3.59	42		5.2	4.7
	E		43	07							
AUC	EPN	11	41	53.5		0.1	3.59	350			
KAI	EPN	11	41	53		-2.5	3.75	234	5.2		
	EP*		42	07		2.9					
	E			22							
	E			44							
GPZ	EPN	11	41	58		0.1	3.93	212	5.0		
	EPG		42	18		-0.2					
	SN			36.7		-6.0*					
ONE	EPN	11	42	10		1.4	4.72	348	4.7		
	EP*			24		3.4					
CIZ	EPN	11	42	38.8		1.5	6.86	124			
	ESN		43	50		-3.0					

FELT WIDELY IN SOUTHERN PARTS OF NORTH ISLAND, MAX. MM V IN MANAWATU AND SOUTHERN HAWKES BAY

57/ 021

	H	M	S							
JAN 16	12	06	36.9	40.33S	175.21E	12 KM	SE	1.9	AVG MAG	4.1
			+_ 0.5	0.03	0.03	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	12	06	45.0	U	0.9	0.36	145			
	ES*			50		0.7					
WEL	IP*	12	06	54.3	U	-1.1	1.02	199	4.0	4.5	4.6
	ES*		07	08		-1.2					
CNZ	IP*	12	06	56.9	U	-0.8	1.15	13		4.1	4.2
	ES*		07	12		-1.2					
TNZ	EPN	12	07	00.5		-0.1	1.31	330		4.2	4.1
	P*			01.7		1.4					
	ESG			21		-0.1					
COB	EPG	12	07	18		-0.1	2.03	247	3.3		
	E			26							
	ESN			36		1.2					
TUA	EPN	12	07	10		-1.6	2.13	45		4.0	3.8
	EP*			16		1.6					
	ESG			51.5		2.7					
GNZ	EPG?	12	07	29		-3.5	2.75	53		4.1	
KAI	EP*?	12	07	43		3.3	3.61	231	3.9		
	ESN		08	11		-2.1					
	E			24							
CIZ	ESN	12	09	26		-11.0*	7.10	123			

FELT MANAWATU (61)

57/ 022

	H	M	S								
JAN 16	23	59	00.0	40.25S	176.18E	12 KM	SE	1.3	AVG MAG	4.2
			+_ 0.3	0.02	0.02	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	23	59	14.2	U	2.0	0.65	235		4.5	4.3
	ES*			22		0.9					
CNZ	IP*	23	59	21.9	D	1.0	1.16	335		4.2	4.4
	ES*			37		0.6					
WEL	IPN	23	59	26.7	U	0.5	1.49	226	3.9	4.8	4.6
	EPG			30		-0.3					
	ESN			47		1.4					
TUA	EPN	23	59	26		-1.9	1.62	28		4.6	4.6
	EPG			35		2.1					
	ESN			49.5		1.0					
TNZ	EPG	23	59	33		-2.4	1.75	307		3.8	4.0
	ESN			46		-5.3*					
	ESG			58.5		-0.5					
GNZ	EPG	23	59	42.5		-1.0	2.15	42		4.3	4.3
	E		24	00	26						
KRP	EPN	23	59	38		0.0	2.38	348		3.9	3.8
	EP*			43		1.3					
	ES*	24	00	12.5		-0.5					
	ESG			20		-0.1					
COB	EP*	23	59	49		0.8	2.75	251	3.7		
	EPG			55		-0.7					
	ES*	24	00	22		-2.4					
	ESG			28		-4.8*					
GPZ	ESN	24	00	54		0.2	4.34	216	4.2		
CIZ	EPN	24	00	34		-0.2	6.54	127			
	E		01	41							
	ESN			45		-1.7					

FELT IN HAWKES BAY. MAX. TATARAMOA (63) MM IV

57/ 023

	H	M	S							
JAN 17	09	02	29.0	41.06S	172.72E	12 KM	SE	2.1	AVG MAG	3.6
			+_ 0.9	0.04	0.06	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IPG	09	02	30.0	W	-1.3	0.03	160	2.8		
WEL	PG	09	02	59.6		-1.0	1.56	99		3.9	4.3
	ESG		03	21		-0.7					
MNG	EP*	09	03	08		1.3	2.14	79		3.7	3.9
	ES*			39		4.0					
TNZ	E(PG)	09	03	15		0.2	2.26	35		3.6	3.6
	ES*			38		-0.6					

		E		54						
		E		04 07						
	GPZ	ES*	09 03 48		-1.9	2.64	181	3.5		
	CNZ	EP*	09 03 20		1.1	2.85	50		3.8	3.6
		ES*		52.5	-3.9					
	MJZ	EPN	09 03 21		0.5	3.37	209		3.5	3.2
		ESN		04 01	1.6					
	KRP	E	09 03 28			3.81	36		3.5	3.6
		ES*		04 26	0.7					

57/ 024

	H	M	S							
JAN 17	11	35	07.3	33.08S	179.59E	323 KM	SE	2.6	AVG MAG	4.6
			+- 2.5	0.15	0.21	29				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	11	36	21.5		-1.2	4.69	190		5.2	4.9
	ES		37	23.5		1.7					
GNZ	EP	11	36	32		-2.3	5.70	192		4.7	4.5
	ES		37	41		-1.7					
KRP	EP	11	36	38		1.8	5.86	213		4.0	
	E		37	33							
TUA	E	11	36	36			6.05	198			
	EP			41		2.5					
	ES		37	48		-2.0					
CNZ	EP	11	36	51.5		2.5	6.93	207			
TNZ	EP	11	36	57		2.2	7.41	213			
MNG	E	11	36	59			8.22	202			
	P		37	01.8		-2.6					
	E		38	33.5							
	ES			39		2.3					
WEL	EP	11	37	11		-3.6	9.05	204			
	ES		38	54		-1.0					
	E		39	01							
CIZ	E	11	37	54			11.27	166			
	ES		39	45		1.3					

EARLY ARRIVALS AT TUA AND MNG PROBABLY FROM AN EARLIER SHOCK

57/ 025

	H	M	S							
JAN 18	16	43	40.5	39.59S	175.74E	33 KM	SE	2.6	AVG MAG	3.9
			+- 0.8	0.06	0.08	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IPN	16	43	56.9	D	-1.2	1.04	191		4.2	4.1
	ESN		44	09		-2.1					
TUA	EPN	16	44	01		-1.2	1.35	55		3.9	3.8
	ES*			26.5		3.3					
KRP	EPN	16	44	04		-2.7	1.67	355		3.8	3.6
	ESN			25		-1.5					
WEL	IPN	16	44	09.0	U	-0.1	1.85	203	3.3	4.3	4.1
	S*			37		-1.0					
GNZ	EP*	16	44	17		0.7	2.01	63		3.9	
COB	EPN	16	44	22		0.7	2.74	236	3.5		
	ESN			57.5		5.1					

FELT MOAWHANGO (58) MM IV

57/ 026

	H	M	S							
JAN 19	20	28	51.4	37.76S	176.10E	12 KM	SE	2.3	AVG MAG	3.4
			+- 2.6	0.13	0.11	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP*	20	29	01.6	USW	1.0	0.48	250		3.7	
TUA	EPG?	20	29	19.5		1.1	1.33	142		3.5	2.9
CNZ	IPG	20	29	20.1	D	-1.7	1.50	197			
	ESG			43.5		1.4					
MNG	EPG	20	29	48		-1.9	2.89	189		3.4	

FELT KAIMAI (25) MM IV

57/ 027

	H	M	S							
JAN 19	22	51	37.0	37.39S	176.69E	248 KM	SE	0.7	AVG MAG	4.1
			+- 0.7	0.04	0.03	5				

	KRP	EP	22	52	12	-0.3	1.06	239		3.6	
		ES			40	0.2					
	TUA	EP	22	52	15	-0.2	1.46	166		4.3	4.3
		ES			44	-0.6					
	ECZ	EP	22	52	15	-0.5	1.51	102		4.5	4.2
		ES			46	0.8					
	GNZ	EP	22	52	17	0.5	1.64	140		4.5	4.4
		ES			46.5	-0.5					
	CNZ	EP	22	52	20	0.3	2.02	206		3.7	3.4
		ES			50	-2.8*					
		E			59						
	MNG	P	22	52	33.8	U 0.0	3.36	196		4.4	4.1
		ES		53	19	1.1					
	WEL	ES	22	53	34	-0.7	4.17	200			4.3

57/ 028

	H	M	S							
JAN 20	16	09	34.8	39.48S	175.63E	12 KM	SE	1.7	AVG MAG	3.4
			+- 0.6	0.03	0.05	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP*	16	09	42.2	D	1.5	0.28	346			
	ES*			47		2.0					
MNG	IP*	16	09	57.0	D	1.5	1.15	186		4.0	
TUA	EPG	16	10	02		-0.3	1.35	61		3.2	3.4
	ESG			21		0.4					
KRP	EPG	16	10	03.5		-2.7	1.55	357		3.1	3.0
	ESG			26		-1.2					
WEL	IP*	16	10	08.6	D	-0.3	1.93	200		3.8	3.3
	ESG			39		-0.9					

FELT MOAWHANGO (58) MM III

57/ 029

	H	M	S							
JAN 21	04	37	37.4	39.14S	174.87E	218 KM	SE	1.2	AVG MAG	4.4
			+- 0.8	0.05	0.06	7				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	04	38	08.2	U	1.3	0.53	97		4.1	3.8
	ES			29.5		-0.1					
KRP	IP	04	38	12.2	D	0.7	1.32	24		3.9	3.3
	ES			38.5		0.5					
MNG	IP	04	38	15.1	U	1.7	1.55	162		4.6	4.8
	E			35.7							
	ES			42		0.7					
TUA	EP	04	38	17		1.2	1.81	80		4.3	4.3
	E			38.5							
	ES			45		-0.5					
WEL	P	04	38	20.0		0.9	2.15	182	4.5	4.5	4.9
	E			48							
	ES			51		-0.3					
GNZ	IP	04	38	23.7	D	0.7	2.51	80		4.6	4.5
	ES			56		-2.3					
COB	EP	04	38	23		-0.3	2.54	219	4.6		
	ES			57		-1.9					
ECZ	EP	04	38	31		-0.2	3.23	65		4.8	4.2
	ES			39	12	-0.9					
GPZ	EP	04	38	50		-1.0	4.85	199	5.3		
	ES			39	44	-4.2*					

57/ 030

	H	M	S							
JAN 24	23	19	11.4	44.61S	168.20E	78 KM	SE	1.6	AVG MAG	4.6
			+- 1.0	0.05	0.06	16				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP	23	19	23.3	D	-0.1	0.21	254			
ROX	EP	23	19	34.7	U	1.7	1.17	138		4.3	4.8
	ES			50		0.8					
MNW	IP	23	19	33.8	U	-0.1	1.24	199		4.9	4.9
	ES			49		-1.7					
MJZ	IP	23	19	41.8	DS	1.3	1.74	70		4.2	4.4

		ES		20 02		0.1				
	WPZ	EP	23	19 45		-0.2	2.10	168	4.5	4.5
		ES		20 10		-0.2				
	GPZ	EP	23	20 04.5		2.0	3.33	76	4.5	
		ES		38		-3.0				
	COB	EP	23	20 24		0.4	4.85	45	4.5	
		ES		21 18		-0.9				

57/ 031

	H	M	S									
JAN 25	11	56	54.2	44.20S	168.60E	33 KM	SE	1.0	AVG	MAG	3.9	
	+-		0.6	0.03	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ EPN	11	57	15		-1.1	1.36	82		2.9	3.8
	ESN			32.5		-0.0					
	ROX EPN	11	57	17		0.8	1.37	159		4.1	4.4
	SN			33.8		1.0					
	MNW EPN	11	57	21.5		0.3	1.73	204		4.0	4.0
	ES*			47		-1.2					
	KAI ES*	11	58	24		8.4*	2.64	52	3.8		
	GPZ EP*	11	57	47		0.8	2.96	82	3.8		
	ES*			58	24	-1.1					
	COB EPN	11	57	57		-0.1	4.35	46	4.1		
	ESN			58	46	0.6					

FELT NEAR LAKE WANAKA (114) MM III

57/ 032

	H	M	S									
JAN 26	01	38	55.9	40.22S	174.06E	143 KM	SE	1.9	AVG	MAG	4.2	
	+-		1.1	0.05	0.06	11						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ P	01	39	21.7	U	1.0	1.06	14		3.5	4.1
	ES			39		-0.8					
	MNG IP	01	39	23.9	U	2.3	1.16	110		4.7	4.5
	ES			42		0.6					
	WEL IP	01	39	23.9	U	1.9	1.19	153	4.0	4.2	4.9
	ES			42		-0.0					
	COB EP	01	39	25		1.6	1.33	229	4.1		
	ES			45		0.5					
	CNZ IP	01	39	26.6	U	1.0	1.54	49		4.2	4.5
	ES			45		-3.4					
	KRP EP	01	39	38		-0.2	2.57	27		3.5	3.8
	ES			40	03	-7.4*					
	E				21						
	TUA EP	01	39	41		0.1	2.78	60		4.0	4.8
	E			40	05						
	ES				15	-0.3					
	GPZ EP	01	39	51		-0.9	3.63	196	4.5		
	ES			40	31.5	-3.4					

57/ 033

	H	M	S									
JAN 26	13	24	25.0	38.45S	175.83E	215 KM	SE	1.3	AVG	MAG	4.0	
	+-		1.1	0.05	0.05	8						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP IP	13	24	53.8	USW	-0.5	0.57	336		4.3	3.3
	ES			25	15	-1.9					
	CNZ IP	13	24	56.5	U	1.3	0.78	196		3.9	3.2
	E			25	24						
	TUA EP	13	24	57		-0.2	1.10	109		3.8	4.1
	ES			25	22	-0.1					
	E				42.5						
	TNZ EP	13	25	00		1.0	1.35	236		3.7	3.3
	ES				28	2.6					
	MNG IP	13	25	07.3	U	0.4	2.18	187		3.9	4.3
	E				34						
	S				38.7	-0.4					
	ECZ E	13	25	33			2.27	71			4.1
	ES				41	0.1					
	WEL EP	13	25	15.5		0.1	2.95	196	4.3	4.0	4.4

	ES			54		-0.4				
COB	ES	13	26	05		-2.0	3.55	221	4.4	
GPZ	EP	13	25	50		-0.2	5.77	204	4.6	
	ES		26	52.5		-4.0*				

57/ 034

	H	M	S									
JAN 27	13	30	50.0	39.23S	174.85E	216 KM	SE	1.4	AVG	MAG	4.1	
	+-		1.2	0.05	0.06	8						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ EP	13	31	19		0.3	0.37	277			
	ES			43		2.2					
	CNZ IP	13	31	20.2	U	1.0	0.54	87		4.2	3.5
	ES			42		0.2					
	KRP EP	13	31	24		-0.6	1.41	23		3.4	3.2
	ES			50		-1.4					
	MNG IP	13	31	26.9	U	1.8	1.47	161		4.4	4.4
	S			52.5		0.2					
	TUA EP	13	31	29		0.5	1.84	77		3.9	4.5
	E			51							
	ES			57		-1.2					
	WEL EP	13	31	31.3		0.7	2.06	182		4.1	4.7
	E			55							
	ES			32	01	-0.9					
	COB ES	13	32	07		-2.6	2.46	220	4.1		
	ECZ P	13	31	44.8	U	0.6	3.28	63		4.5	4.2
	ES			32	25.5	-0.8					
	GPZ ES	13	32	55		-3.6*	4.76	200	4.7		

57/ 035

	H	M	S									
JAN 27	22	59	38.7	38.37S	175.82E	238 KM	SE	2.1	AVG	MAG	4.3	
	+-		1.9	0.09	0.12	12						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP EP	23	00	10		-0.3	0.50	333			
	ES			33		-1.8					
	CNZ IP	23	00	13.0	U	1.2	0.86	194		4.0	3.1
	ES			41		3.5					
	TUA ES	23	00	38		-2.4	1.13	113			4.3
	ECZ EP	23	00	23		0.1	2.25	73		4.5	4.1
	E			01	01						
	MNG IP	23	00	24.7	U	1.7	2.26	187		4.5	4.2
	ES			57		-0.3					
	WEL IP	23	00	32.6	D	1.5	3.02	195		4.6	4.4
	ES			01	12	0.2					
	COB ES	23	01	23		-0.8	3.61	220	4.3		
	GPZ E	23	01	42			5.84	203	4.9		
	ES			02	10	-2.7					

57/ 036

	H	M	S									
JAN 30	07	36	55.3	39.26S	175.53E	12 KM	SE	1.1	AVG	MAG	3.9	
	+-		0.3	0.02	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ IPG	07	36	59.1	D	1.3	0.06	11			
	E			37	09						
	TNZ IP*	07	37	10.8	U	-0.9	0.90	274		3.7	3.8
	ES*			24		0.1					
	KRP EPN	07	37	19		-0.4	1.33	0		4.1	4.0
	ESN			37		-0.2					
	TUA EPG	07	37	23		0.5	1.34	71		3.7	3.7
	E			26							
	ESN			37		-0.4					
	E			49							
	MNG IPN	07	37	18.8	U	-0.9	1.36	182		4.6	4.1
	ESN			36		-1.8					
	GNZ E	07	37	44			2.04	73			3.6
	WEL EPN	07	37	30		0.3	2.11	196	3.6	4.0	4.1
	ESN			57		1.9					
	COB EPN	07	37	40		0.5	2.82	229	3.7		

		ESN		38 17			4.3•						
FELT CENTRAL NORTH ISLAND, MAX. MM IV													
													57/ 037
	H M S												
JAN 30	08 47 10.7		40.69S	174.03E	103 KM		SE 1.8			AVG	MAG		4.1
	+- 1.0		0.04	0.05	11								
			H M S		DIR	RES	DIST	AZ		W-A	W P		W S
	WEL	P	08 47 31.8			2.0	0.82	137		3.8	4.2		4.5
		E		39.5									
		ES		44		-0.3							
	COB	P	08 47 33.0			0.6	1.06	247		4.3			
		ES		48		-0.8							
	MNG	IP	08 47 34.2		D	1.3	1.10	87			4.4		4.1
		ES		50		0.3							
	TNZ	IP	08 47 38.8		U	0.8	1.52	10			3.7		4.0
		ES		58		-0.5							
	CNZ	EP	08 47 43.5			1.0	1.89	39			4.0		4.2
	KRP	IP	08 47 58.1		DW	0.5	3.00	23			4.1		3.8
		ES		48 32		-0.8							
	TUA	EP	08 48 05			6.8•	3.05	53			4.2		4.2
		E		46									
	GPZ	EP	08 48 02			2.0	3.18	198		4.1			
		ES		34		-3.2							
	GNZ	ES	08 48 47			-2.8	3.69	58					3.9
													57/ 038
	H M S												
JAN 31	17 14 26.2		40.42S	175.92E	12 KM		SE 1.4			AVG	MAG		4.0
	+- 0.5		0.03	0.03	R								
			H M S		DIR	RES	DIST	AZ		W-A	W P		W S
	MNG	IP•	17 14 37.8		D	4.0•	0.38	239					
	WEL	IPN	17 14 49.0		D	0.1	1.23	225		3.4	4.2		4.3
		ESN		15 06		0.4							
		E		14.5									
		E		22.5									
	CNZ	IP•	17 14 47.4		U	-1.3	1.25	347			4.2		4.1
		ES•		15 05		-0.5							
	TNZ	EPN	17 14 55			-0.2	1.71	316			3.9		3.9
		EPG		15 00		-0.8							
		ES•		20		0.8							
	TUA	EP•	17 15 01			1.7	1.87	31			4.1		4.1
		EPG		03.5		-0.6							
		E		13									
		E		37									
	GNZ	EPG	17 15 16			1.0	2.41	43			4.0		
	COB	EPG	17 15 14.5			-2.4	2.51	254		3.7			
		ESN		37		0.9							
		ESG		53		2.3							
	GPZ	ESN	17 16 12.5			-1.2	4.08	216		3.9			
FELT SOUTHERN HAWKES BAY. MAX. MM IV													
													57/ 039
	H M S												
FEB 01	20 01 34.0		39.44S	174.92E	12 KM		SE 1.3			AVG	MAG		4.2
	+- 0.4		0.02	0.03	R								
			H M S		DIR	RES	DIST	AZ		W-A	W P		W S
	TNZ	PG	20 01 43.0			-1.1	0.48	301					
		ESG		50.0		-0.8							
	CNZ	PG	20 01 46.3		D	1.0	0.54	64					
		E		51.5									
	MNG	PG	20 02 00.0			0.4	1.26	160			4.4		4.1
		E		22									
	TUA	EPG	20 02 10.0			-1.5	1.85	71			4.0		
	WEL	PG	20 02 09.5			-2.0	1.85	183		3.8	4.4		4.5
		SG		37		0.5							
	COB	EP•	20 02 14.4			-0.9	2.35	225		3.7			
		SN		41.0		1.4							
	GNZ	EPG	20 02 25			-0.5	2.55	73			3.8		
		E		37									

	AUC	SN	20 02 47			1.4	2.57	358					4.8
		IS•		54		0.9							
	GPZ	ESN	20 03 35			1.2	4.58	201		4.2			
FELT SHAKUNE DISTRICT (57) MM IV													
													57/ 040
	H M S												
FEB 02	05 02 12.6		32.31S	179.71W	489 KM		SE 1.8			AVG	MAG		5.6
	+- 1.7		0.19	0.40	22								
			H M S		DIR	RES	DIST	AZ		W-A	W P		W S
	ECZ	P	05 03 47.8			2.7	5.56	194			5.6		5.2
		ES		04 58		-0.2							
	GNZ	EP	05 03 53			-2.2	6.59	196					
		E		56									
		E		05 07									
		ES		16		-0.6							
	KRP	P	05 03 59.5			1.9	6.82	213					
	TUA	P	05 03 59.4			0.3	6.97	201					
		ES		05 23.5		-0.1							
	CNZ	EP	05 04 08			-0.6	7.88	208					
	TNZ	EP	05 04 15			1.1	8.37	213					
	MNG	EP	05 04 20.3			-1.9	9.15	204					
		I		21.4									
		E		05 59									
		ES		06 06		0.9							
	WEL	EP	05 04 29.6			-1.5	9.99	205		5.8			
		I		31.0									
		S		06 22		0.5							
	COB	ES	05 06 32			-2.3	10.65	213		5.7			
	CIZ	E	05 07 34				11.89	169					
	GPZ	ES	05 07 19			2.0	12.86	206		5.8			
													57/ 041
	H M S												
FEB 06	05 41 26.9		41.71S	174.26E	12 KM		SE 1.4			AVG	MAG		4.0
	+- 0.4		0.03	0.03	R								
			H M S		DIR	RES	DIST	AZ		W-A	W P		W S
	WEL	P•	05 41 37.1		UNE	-0.5	0.57	42		4.2	4.8		
		S•		45.0		-0.5							
	COB	P•	05 41 49.2			-1.1	1.31	298		3.6			
		ES•		42 06		-1.8							
		E		09.5									
	MNG	P•	05 41 51.0			-1.3	1.43	41					
		ES•		42 12		0.7							
	KAI	EP•	05 42 07			0.1	2.28	248		3.9			
		E		14									
		ES•		38		1.1							
	GPZ	EPN	05 42 02			-2.1	2.32	210		3.6			
		ESN		30.5		-1.2							
		ES•		38		-0.2							
		E		54									
	TNZ	EP•	05 42 12			1.0	2.52	2			4.0		4.0
		ES•		44		-0.2							
		E		49									
	CNZ	EP•	05 42 14.0			0.0	2.69	22			4.4		4.4
		E		12.2									
		S•		52		2.7							
	MJZ	EPN	05 42 23			1.5	3.60	230			3.5		3.7
		EP•		30		0.4							
		E		43 12									
		ES•		19		2.2							
	KRP	EP•	05 42 34.0			-0.7	3.90	15			4.1		
		E		30.2									
		I		43 22.0									
FELT CAPE CAMPBELL (84), SLIGHT.													
													57/ 042
	H M S												
FEB 09	22 58 50.0		37.06S	178.67E	122 KM		SE 1.6			AVG	MAG		5.1
	+- 1.1		0.07	0.06	14								

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP		22	59	08.3		-1.1	0.64	189		5.4	
	I				11.2							
	E				28							
GNZ	P		22	59	22.1		2.2	1.66	198		5.5	
	I				32.0							
WNZ	E		22	59	37			2.57	232			
KRP	P		22	59	32.4		-0.1	2.64	250		4.7	
	E				34.5							
	ES		23	00	00		-4.7*					
AUC	P		22	59	39		0.1	3.12	272		6.0	
ONE	EP		22	59	45		-1.6	3.70	289	4.1		
	E		23	00	32							
MNG	EP		22	59	53.5		-1.7	4.34	214		4.9	
	E		23	00	09.5							
	E				45							
COB	EP		23	00	21		1.7	6.12	227	4.9		
	ES			01	28		-0.5					
	E				36							
CIZ	P		23	00	44.0		2.1	7.79	154			
	S			02	07		-1.9					
KAI	ES		23	02	12		2.5	7.81	223	5.1		
GPZ	EP		23	00	46		0.4	8.07	213	5.5		
	S			02	15		-0.7					
MJZ	EP		23	01	03		0.6	9.32	219			
	S			02	45		-0.8					
MNW	E		23	01	44.0			12.02	220			
	ES			03	49		-1.1					

57/ 043

	H	M	S								
FEB 10	05	28	32.4	35.09S	179.97W	295 KM	SE	2.4	AVG	MAG	4.7
	+-		3.0	0.17	0.18	20					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	05	29	24.5		-2.4	2.86	204		4.7	4.8
	ES		30	08		-1.4					
GNZ	EP	05	29	37.5		-0.2	3.90	204		4.3	
	ES		30	32		3.3					
KRP	P	05	29	45.8		0.3	4.60	231		4.4	
	E		30	34							
TNZ	E	05	30	42			6.09	226			
MNG	EP	05	30	11		1.7	6.59	212			
	E			26							
	E		31	42							
CIZ	ES	05	32	24		0.0	9.24	165			
GPZ	ES	05	32	47		-1.1	10.32	211	5.2		

57/ 044

	H	M	S								
FEB 12	19	24	18.4	37.18S	177.45E	12 KM	SE	1.3	AVG	MAG	3.8
	+-		1.1	0.06	0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP*	19	24	38.0		1.1	1.02	121		4.3	
	I			39.5							
	E		25	00							
GNZ	EP*	19	24	45.0		-0.7	1.53	163		4.0	4.1
	S*		25	07		0.8					
KRP	P*	19	24	49.5		1.1	1.69	243		3.3	2.9
	S*		25	12		1.2					
TNZ	EP*	19	25	12.0		-1.2	3.14	229		4.0	
MNG	EPN	19	25	15.0		-0.2	3.76	203		3.8	3.7
	EP*			22.0		-1.9					
	ESN			57		-1.3					
	ES*		26	14		0.9					
COB	ESN	19	26	37		0.3	5.35	222	4.4		

57/ 045

	H	M	S								
FEB 13	01	34	54.7	45.23S	166.06E	33 KM	SE	2.4	AVG	MAG	4.7
	+-		1.8	0.08	0.10	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	PN	01	35	14.5		-3.1	1.44	68			
ROX	PN	01	35	28.8		-0.8	2.31	97		4.9	5.0
	SN			55.0		-1.1					
WPZ	EPN	01	35	33.5		2.4	2.42	127		4.6	4.6
	SN		36	00		1.3					
MJZ	PN	01	35	43.8		-0.6	3.39	70		4.7	
	IP*			53.5		-0.5					
	ES*		36	43		4.6					
KAI	EP*	01	36	18		1.2	4.72	57	4.8		
	E		37	10							
GPZ	EPN	01	36	04		-1.9	4.96	74	4.5		
	ESN		37	00		-0.6					
	ES*			21		-4.6					
COB	EPN	01	36	26		0.7	6.40	52	4.8		
	E			29							
	ESN		37	37		1.7					
MNG	EPN	01	36	51		0.1	8.31	60			
	E			58							
	E		37	56							
	ESN		38	22		1.1					

67/ 046

	H	M	S								
FEB 13	10	30	21	NEAR WAIRAKEI (41)							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	10	30	24.0							

FELT WAIRAKEI SLIGHT
SIMILAR SHOCK 20.4 SECONDS LATER

67/ 047

	H	M	S								
FEB 13	11	39	04.8	38.36S	176.02E	202 KM	SE	1.8	AVG	MAG	4.1
	+-		1.7	0.09	0.10	18					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	EP	11	39	31		-1.6	0.57	318		3.2	
	E			48							
GNZ	P	11	39	41.0		1.2	1.60	101		3.9	3.8
	S		40	05		-1.9					
ECZ	P	11	39	45.0		0.2	2.10	72		4.5	4.0
	ES		40	16		0.3					
MNG	P	11	39	49.0		2.1	2.30	190		4.5	3.9
	S		40	19.3		-0.2					
WEL	P	11	39	57.2		1.2	3.08	198	4.2	4.6	3.8
	S		40	37		1.4					
COB	ES	11	40	51		1.5	3.72	222	4.1		
GPZ	ES	11	41	37		-2.3	5.91	204	4.6		
MJZ	ES	11	42	03		-1.9	7.01	215			

67/ 048

	H	M	S								
FEB 14	17	38	58.8	39.51S	175.89E	12 KM	SE	1.0	AVG	MAG	3.6
	+-		0.6	0.02	0.04	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	P*	17	39	20.5		1.0	1.15	196		4.2	
TUA	E	17	39	50			1.21	55			
TNZ	P*	17	39	20.0		-0.7	1.21	285		3.5	3.1
	S*			38		1.1					
KRP	P*	17	39	28.0		0.6	1.61	350		3.3	
	E			30.8							
	S*			48.2		-0.7					
WEL	EP*	17	39	33		-0.6	1.97	205		3.9	
COB	ESN	17	40	17		-0.7	2.88	236	3.6		

FELT MOAWHANGO (58) MM III

67/ 049

	H	M	S								
FEB 17	21	20	11.2	37.32S	176.54E	330 KM	SE	1.0	AVG	MAG	5.0
	+-		0.7	0.03	0.04	6					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	21	20	55.0		0.1	1.00	233		4.6	
		S		21	31		1.8					
	AUC	IP	21	20	57.5		-0.0	1.49	288		5.3	
	ECZ	P	21	20	57.0		-1.4	1.63	104		5.3	5.3
		I		21	01.0							
		E			27.0							
		S			31.2		-4.1*					
	GNZ	P	21	20	59.7		0.4	1.76	139		5.5	5.5
		S		21	36.2		-0.6					
	CNZ	P	21	21	01.0		-0.2	2.03	202		4.6	4.1
		E			45							
	ONE	EP	21	21	04		0.4	2.34	311	4.2		
		S			43		-1.5					
	TNZ	P	21	21	06.5		1.3	2.52	222		4.1	3.8
		E			53							
	MNG	P	21	21	13.1	U	-0.1	3.39	194		5.1	5.1
		S		22	02		0.1					
	WEL	P	21	21	21.2		-0.3	4.19	199	5.4	5.1	5.3
		S		22	17		0.4					
	COB	EP	21	21	29		1.0	4.78	217	5.1		
		ES		22	27		-1.3					
	GPZ	EP	21	21	55		0.9	7.02	204	5.5		
		S		23	14		-0.9					
	MJZ	ES	21	23	38		-0.2	8.10	213			

57/ 051

	H	M	S									
FEB 19	08	49	31.3	41.92S	172.55E	12 KM	SE	1.4		AVG MAG		3.8
			+_ 0.3	0.02	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	PG	08	49	48.0		-0.4	0.84	10	3.7		
	SG			59.7		-0.1					
KAI	EPG	08	49	52.2		-0.2	1.04	234	3.7		
	SG		50	05.5		-1.0					
GPZ	EP*	08	50	03		0.2	1.78	178	3.4		
	S*			27		0.6					
WEL	E	08	50	04.0			1.78	70	3.5	4.1	4.1
	IPG			05.8		-1.5					
	ESG			29		-2.3					
MNG	P*	08	50	17.5		1.3	2.56	61		4.1	3.9
	I			15.0							
	S*			52		2.0					
MJZ	EP*	08	50	16.0		-0.3	2.57	216		3.6	3.4
	EPG			21		-2.3					
	ES*			50		-0.2					
	E		51	01							
TNZ	EP*	08	50	26		1.2	3.06	28			
	E			36							
	ESG		51	13		-1.6					
	E			26							
CNZ	EP*	08	50	33		-0.1	3.55	41		3.6	3.9
	ESN		51	10		4.0*					
	ES*			21		1.4					
	E			25							
MSZ	PN	08	50	38		1.9	4.36	229		3.5	4.1
	SN		51	27		1.4					

FELT MANGLES VALLEY (80) MM V

57/ 052

	H	M	S									
FEB 21	05	10	35.6	40.51S	174.76E	114 KM	SE	1.4		AVG MAG		5.1
			+_ 0.5	0.03	0.04	7						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP	05	10	55.2		1.7	0.56	101			
WEL	P	05	10	57.1		1.9	0.77	179	5.0	5.3	
	S		11	10.0		-0.2					
TNZ	P	05	11	02.8		1.3	1.36	348		5.3	5.6
	S			20.4		-0.7					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	P	05	11	03.5		0.9	1.45	25			
		I			08.2							
	COB	P	05	11	05.0		0.2	1.64	249	4.9		
		S			26.0		-0.8					
	TUA	EP	05	11	16.5		0.3	2.51	48			
		E			25							
		E			28							
		S			45		-1.7					
	KRP	P	05	11	18.5		0.4	2.65	13		5.1	5.6
		E			44							
		S			50		-0.1					
	GNZ	EP	05	11	24.0		-0.5	3.14	55		4.6	5.7
		E			28.5							
		E			35							
		E			41							
		ES			59		-2.5					
	KAI	S	05	12	02		-1.5	3.22	230			
	GPZ	EP	05	11	31		1.0	3.55	206	5.1		
		S		12	08		-3.4*					
	ECZ	EP	05	11	37.0		-0.2	4.08	48		5.0	5.3
		E			53							
		I		12	14							
		IS			24		-0.2					
	MJZ	EP	05	11	47.0		1.2	4.71	221		4.0	
		E			56							
		S		12	37.5		-2.2					
	ONE	P	05	11	48		1.8	4.74	356	5.5		
		S		12	40		-0.4					

FELT EXTENSIVELY IN TARANAKI AND WELLINGTON PROVINCES.
MAXIMUM MM V AT DAWSONS FALLS (47)

57/ 052

	H	M	S									
FEB 21	12	27	09.1	45.03S	167.66E	95 KM	SE	1.2		AVG MAG		3.8
			+_ 1.2	0.05	0.05	11						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	P	12	27	24.2		0.2	0.41	27			
	E			35.5							
MNW	P	12	27	26.9		0.1	0.75	182		4.1	4.2
	S			39.1		-1.2					
ROX	P	12	27	33.8		1.1	1.25	111		3.7	4.1
	S			51.2		0.9					
WPZ	EP	12	27	40		0.2	1.83	153		3.9	4.0
	S		28	02.2		-0.2					
MJZ	EP	12	27	46		0.3	2.27	64		2.9	3.3
	S		28	13.3		0.5					
GPZ	ES	12	28	49		-2.0	3.82	71	3.9		

57/ 053

	H	M	S									
FEB 21	14	00	12.9	46.07S	167.68E	33 KM	SE	1.1		AVG MAG		4.8
			+_ 0.7	0.03	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP*	14	00	19.2		-1.1	0.29	352			
WPZ	P*	14	00	31.8		0.1	1.01	127		4.6	5.0
	S*			45.0		-0.5					
ROX	P*	14	00	35.0		-1.4	1.29	63		4.9	5.2
	SN			50.2		0.7					
MSZ	PN	14	00	36.2		0.8	1.41	7			
MJZ	EPN	14	00	55.7		0.2	2.87	45		4.5	4.5
	IP*		01	03		-0.3					
	ES*			41		0.0					
GPZ	EPN	14	01	17		2.6	4.25	58	4.6		
	EP*			31		4.1*					
	ESN		02	06		4.4*					
	ES*			23		0.5					
COB	ESN	14	02	48		-0.2	6.18	38	4.8		
WEL	ESN	14	03	07		-1.0	7.01	50	4.9		
MNG	E	14	02	20			7.87	49			

		ESN		03 28		-0.5						
	CNZ	I	14	02 30.8			8.98	43				
		I		03 05.5								

FELT SOUTHLAND AND STEWART ISLAND. MAX.TUATAPERE (148) MM V

67/ 054

	H	M	S							AVG	MAG	5.3
FEB 22	18	32	31.4	34.28S	179.86E	248 KM	SE	1.9				
	+-	1.5		0.08	0.07	13						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	18	33	28.7		-1.9	3.57	197		4.9	5.2
	S		34	17		0.4					
GNZ	P	18	33	39.6		-3.2	4.60	198		4.5	5.2
	S		34	34		-4.4*					
ONE	EP	18	33	45		0.3	4.75	250	4.4		
	ES		34	42		0.2					
AUC	IP	18	33	49		2.8	4.88	237		6.0	
TUA	EP	18	33	46		-1.9	5.01	205		4.5	5.6
	S		34	50		2.5					
KRP	E	18	33	49			5.04	223			
CNZ	EP	18	34	00		-0.2	6.01	214			
MNG	EP	18	34	13		-2.5	7.22	208			
	E		35	31							
	ES			38		1.0					
WEL	S	18	35	56		-0.4	8.07	208	6.4		
COB	ES	18	36	14		0.3	8.83	218	5.9		
CIZ	EP	18	34	54		2.6	10.05	165			
	S		36	42		0.6					
GPZ	S	18	37	00		-1.8	10.94	209	6.1		
MJZ	ES	18	37	28		-0.5	12.12	214			
MSZ	EP	18	35	41		2.0	13.86	218			
	ES		38	07		-0.4					

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	H	M	S							AVG	MAG	3.9
FEB 23	23	17	39.0	42.34S	172.91E	12 KM	SE	1.8				
	+-	0.4		0.03	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	EP*	23	18	00.3		1.0	1.12	260	4.1		
	S*			14		-0.4					
COB	EPN	23	18	00.0		-2.1	1.26	354	3.8		
	SN			17.0		-2.2					
GPZ	PN	23	18	02.0		-1.5	1.37	188	3.7		
	IP*			04.9		1.5					
	S*			20.0		-1.7					
WEL	P*	23	18	09.8		-0.1	1.75	53	3.7	4.2	
	S*			30.8		-2.3					
MJZ	EPN	23	18	17.3		-0.4	2.43	227		3.8	
	EP*			24.5		2.9					
MNG	PN	23	18	19.2		-0.9	2.59	49		4.4	
	EP*			27.2		2.8					
TNZ	E	23	18	33			3.35	20			3.7
	ES*			19 22		0.8					
CNZ	E	23	18	38			3.73	33		4.3	3.8
	EP*			45		1.2					
	ESN		19	20		2.0					
MSZ	EPN	23	18	41.5		-1.7	4.31	236		3.8	3.8
	E			47							
	SN		19	33		0.8					
KRP	P*	23	18	57.5		-5.6*	4.85	25		4.0	

67/ 056

	H	M	S							AVG	MAG	4.9
FEB 24	04	26	26.7	38.85S	175.45E	193 KM	SE	1.6				
	+-	0.8		0.05	0.05	8						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	04	26	53.8		1.1	0.36	168			
	ES		27	14		1.3					
WNZ	P	04	26	53.7		0.3	0.55	67		4.7	
TNZ	P	04	26	56.5		1.3	0.90	248		3.7	

KRP	P	04	26	55.0	-0.4	0.93	4		5.2	
	S		27	15	-2.6					
TUA	IP	04	26	59.0	0.5	1.33	89		5.1	5.4
	S		27	22.0	-1.1					
MNG	P	04	27	05.0	2.4	1.76	179			
GNZ	P	04	27	06.2	1.0	2.02	85		5.4	5.3
	S			33.2	-1.7					
WEL	P	04	27	12.3	1.9	2.49	192	4.8	5.3	5.1
	S			44	-0.2					
COB	E	04	27	20		3.06	222	4.8		
	S			57.3	1.1					
ONE	EP	04	27	19	0.2	3.19	344	3.8		
KAI	S	04	28	34	-0.9	4.79	219	4.8		
GPZ	P	04	27	45	-0.3	5.28	203	5.1		
	S		28	44	-2.3					
MJZ	EP	04	28	01	1.8	6.35	215			
	S		29	09	-2.2					
CIZ	E	04	29	52		7.87	133			
	E		30	00						
MSZ	EP	04	28	20.8	-1.2	8.09	222			
	S		29	48	-4.1*					

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	H	M	S							AVG	MAG	4.4
FEB 28	14	00	23.3	38.62S	178.30E	33 KM	SE	1.7				
	+-	0.8		0.05	0.05	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P*	14	00	29.7		-0.2	0.22	263			
TUA	PN	14	00	39.0		-0.2	0.92	258		4.6	
	E			44.3							
	E			58							
	P*			39.0		-1.9					
ECZ							0.94	12		4.9	5.1
CNZ	PN	14	00	56.9		-0.2	2.22	254		3.6	4.0
	P*		01	06		3.3					
	E			08							
KRP	PN	14	00	56.2		-1.6	2.28	287		3.8	
	IP*		01	02.2		-1.5					
MNG	PN	14	01	05.2		-1.9	2.96	227		4.0	
TNZ	PN	14	01	10.9		1.7	3.11	258		4.0	
AUC	IPN	14	01	12		0.2	3.30	301		5.0	
WEL	EPN	14	01	20		1.3	3.81	224	4.6	4.0	4.4
	ESN		02	02.5		1.3					
ONE	EPN	14	01	25		0.4	4.23	311	4.0		
	ES*		02	19		-13.3*					
COB	ESN	14	02	30		1.3	4.94	238	4.5		
KAI	ESN	14	03	08		0.9	6.54	231	4.7		
CIZ	EPN	14	01	57.0		0.6	6.59	146			
	ESN		03	08		-0.2					
GPZ	ESN	14	03	06		-3.2	6.63	218	4.7		

67/ 058

	H	M	S							AVG	MAG	5.3
FEB 28	18	19	09.0	32.04S	179.95E	501 KM	SE	1.6				
	+-	2.1		0.13	0.23	24						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ							5.76	191		5.3	4.8
ONE	EP	18	20	47		1.1	5.95	230			
GNZ	EP	18	20	52		-2.0	6.77	193			
	I			55.5							
	E		22	14.0							
	S			18		0.8					
KRP	EP	18	20	56		0.8	6.90	210			
	ES		22	18		-1.4					
TUA	EP	18	20	57.5		-0.1	7.13	198			
	ES		22	24		0.3					
MNG							9.29	202			
WEL	ES	18	23	22		1.6	10.12	203	5.7		
COB	ES	18	23	31		-1.2	10.73	211	5.4		

57/ 059

	H	M	S										
MAR 01	00	30	09.2	37.66S	179.97E	178 KM	SE	1.7		AV3	MA3	3.9	
			+_ 2.3	0.19	0.18	25							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ								1.13	268		5.0	
	GNZ	EP			00	30 43		-1.5	1.82	237		4.4	
	TUA	EP			00	30 52		-0.2	2.50	242		4.1	4.3
		ES				31 27.5		2.2					
	KRP	EP			00	31 04		-0.9	3.52	264		3.6	
	CNZ	EP			00	31 10		1.6	3.80	245		3.5	3.1
		ES				54		-0.0					
	MNG	EP			00	31 19		0.7	4.57	228		3.6	3.4
		ES				32 11		-0.7					

NO TIME SIGNALS AT ECZ

57/ 060

	H	M	S										
MAR 01	01	30	22.7	33.17S	177.94W	338 KM	SE	2.4		AV3	MA3	5.5	
			+_ 2.9	0.16	0.17	40							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	ES			01	33 14		1.1	6.36	210			
	TUA	EP			01	32 01		-3.2	6.89	214			
		ES				33 24		0.1					
		E				28							
	KRP	EP			01	32 08		1.0	7.12	226			
		ES				33 32		3.1					
	CNZ	EP			01	32 18		0.7	7.99	219			
		ES				33 44		-3.6					
	MNG	EP			01	32 31.5		0.8	9.10	213			
		ES				34 09		-2.7					
	WEL	ES			01	34 31		0.5	9.96	214	5.6		
	CIZ	E			01	33 00			10.82	175			
		ES				34 50		0.9					
	COB	ES			01	34 51		1.3	10.85	221	5.4		

57/ 061

	H	M	S										
MAR 01	05	43	48.3	41.04S	172.86E	237 KM	SE	1.7		AV3	MA3	3.7	
			+_ 1.8	0.10	0.10	12							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB	ES			05	44 43		0.0	0.11	246	3.3		
	WEL	EP			05	44 22.5		-2.9	1.46	100	3.9	4.0	4.3
		ES				55		1.0					
	KAI	ES			05	45 00		0.4	1.84	216	3.7		
	MNG	EP			05	44 32.5		2.2	2.03	79		3.3	4.0
		ES				45 02		-0.8					
	GPZ	ES			05	45 15		0.7	2.66	183	3.7		
	CNZ	EP			05	44 38.5		0.6	2.76	49		3.5	3.7
		ES				45 16		-0.4					
	MJZ	ES			05	45 29		-0.7	3.43	210			3.0

57/ 062

	H	M	S										
MAR 01	14	14	25.7	46.71S	165.57E	33 KM	SE	2.1		AV3	MA3	4.2	
			+_ 2.3	0.17	0.14	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	EPN		14	14	51		-1.2	1.70	58		4.6	4.4
		ESN			15	12		-0.3					
	MSZ	EPN		14	15	04.5		-0.4	2.62	40		4.2	4.1
		ES*				45		-1.4					
	ROX	EPN		14	15	08		-0.5	2.89	66		4.2	4.1
		ESN				40		-1.1					
	MJZ	EPN		14	15	30		0.8	4.40	53		3.6	3.6
		ESN				16 22		4.1					
	GPZ	E		14	16	34			5.84	61	4.4		
		E				17 34							
	KAI	E		14	17	04			5.91	47	4.4		

INTERPRETATION DOUBTFUL

57/ 063

	H	M	S										
MAR 02	01	27	50.9	49.28S	163.90E	33 KM	SE	2.6		AV3	MA3	5.1	
			+_ 2.4	0.18	0.25	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WPZ								4.23	54		5.0	5.1
	MNW	EP		01	28	52.5		-0.7	4.31	37		5.2	5.0
		E			29	33							
		ES				42		1.0					
	ROX	EP		01	29	03		-3.5	5.29	46		4.8	5.1
		ES			30	05		0.3					
	MSZ	EP		01	29	08.5		1.0	5.37	32		5.2	4.9
		ES			30	10		3.5					
	MJZ	EP		01	29	25		-4.0	6.96	43			
		E			30	29							
		ES				41		-3.7					
	GPZ	EP		01	29	45		-0.8	8.22	50	5.4		
		ES			31	14		-0.8					
		E				52.5							
	KAI	ES		01	31	22		-0.6	8.54	41	5.3		
	COB	EP		01	30	14		0.7	10.29	41	5.5		
		ES			32	05.5		1.6					
	MNG	EP		01	30	37		2.5	11.92	48			
		ES			32	33		-9.0*					
	CIZ	EP		01	31	10		3.5	14.43	76			

57/ 064

	H	M	S										
MAR 04	16	52	11.3	40.04S	179.63E	55 KM	SE	1.5		AV3	MA3	4.7	
			+_ 0.7	0.07	0.05	52							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IP		16	52	40.0	U	-1.6	1.87	318		4.8	4.7
		ES			53	00		-4.1*					
	TUA	EP		16	52	47		-0.4	2.28	302		4.8	4.6
		ES			53	13		-1.4					
	MNG	IP.		16	53	01.8		1.0	3.22	258			
	CNZ	IP		16	53	02.9	U	1.6	3.26	284		5.0	4.7
		ES				40		0.8					
	KRP	EP		16	53	07		-2.2	3.83	302		3.6	3.5
		E				39.5							
		ES				55.5		2.1					
	WEL	P		16	53	10.5		0.2	3.90	250	4.9	4.4	4.8
		ES				56		0.7					
	CIZ	EP		16	53	25		1.7	4.83	145		5.2	5.1
		ES			54	18		-0.6					
	COB	EP		16	53	31		0.4	5.36	257	4.7		
		ES			54	32		0.2					
	GPZ	ES		16	54	55		-1.9	6.37	233	5.1		
	KAI	ES		16	55	04		-0.5	6.67	245	4.9		

57/ 065

	H	M	S										
MAR 05	19	12	45.1	37.12S	176.55E	423 KM	SE	0.6		AV3	MA3	5.1	
			+_ 0.5	0.04	0.04	3							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P		19	13	39.8	DE	0.6	1.14	225		4.4	4.1
		ES			14	22		0.0					
	ECZ	EP		19	13	42		0.3	1.69	110		5.5	5.6
		E			14	19							
	TUA	P		19	13	42.0		-0.1	1.75	165		5.4	5.4
		S			14	24.0		-3.0*					
	GNZ	P		19	13	43.1		0.1	1.91	143		5.5	5.3
		ES			14	28		-0.6					
	CNZ	P		19	13	44.9		0.0	2.22	201		4.9	4.6
		ES			14	32		0.1					
	MNG	IP		19	13	54.4	D	-1.0	3.59	193		5.3	5.0
		E			14	10							
		E				23							
		E				47							

		S		51.0		0.2				
	WEL	P	19	14	02.8	0.0	4.39	198	5.4	5.6	5.2
		ES			15 05	1.2					
	COB	EP	19	14	08	-0.3	4.95	216	5.0		
		ES			15 13	-0.7					
	GPZ	EP	19	14	33	0.5	7.21	203	5.3		
		ES			15 57	-0.3					

57/ 066

	H	M	S								
MAR 07	22	27	59.1	38.57S	177.19E	170 KM	SE	2.0	AVG	MAG	4.2
	+_		1.5	0.08	0.06	11					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	IP	22	28	21.4	U	-0.7	0.24	187			
	S			37.8		-1.9					
GNZ	P	22	28	24.3	U	0.6	0.66	97		4.5	4.3
	ES			44.5		1.8					
ECZ	EP	22	28	27		-2.4	1.38	51		4.7	
CNZ	EP	22	28	29.5		-0.3	1.43	243		3.3	3.5
	ES			52		-1.5					
KRP	IP	22	28	33.3	UE	3.3	1.45	296		3.8	
MNG	IP	22	28	41.9	D	0.9	2.44	212		4.1	4.1
	E		29	10							
	ES			15		1.8					
WEL	ES	22	29	34		2.0	3.29	214	4.7		4.5
COB	ES	22	29	52		-2.0	4.25	232	4.2		
GPZ	ES	22	30	37.5		-1.4	6.17	212	4.5		
CIZ	ES	22	31	02		-0.2	7.15	141			

57/ 067

	H	M	S								
MAR 08	09	52	10.4	41.45S	174.54E	33 KM	SE	1.3	AVG	MAG	4.3
	+_		0.4	0.03	0.03	7					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IP	09	52	17.9	U	0.3	0.23	47	4.4		
	ES			23		0.2					
MNG	IP	09	52	27.8	D	-0.8	1.09	41		4.7	4.7
	ES			41		-1.2					
COB	EP	09	52	33		-0.0	1.41	284	4.5		
	ES			51		1.0					
CNZ	EP	09	52	45		-1.2	2.37	19			
GPZ	ES	09	53	19		-1.2	2.65	211	3.7		
TUA	EP	09	53	04		4.9*	3.31	38		4.4	4.2
	E			09							
	E			53							
KRP	EP	09	53	02		-1.1	3.60	13		4.3	4.3
	E			20							
	ES			45		1.7					
CIZ	EP	09	53	51		1.7	7.01	114			
	ES			55	06	0.4					

FELT BOTH SIDES OF COOK STRAIT MM IV

57/ 068

	H	M	S								
MAR 08	10	45	58.4	33.71S	179.31W	216 KM	SE	1.6	AVG	MAG	4.7
	+_		1.9	0.12	0.09	30					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	10	47	07		1.5	4.34	203		5.1	4.6
	E		48	10							
ONE	EP	10	47	22		0.5	5.60	247	4.7		
TUA	EP	10	47	25		0.5	5.83	208		4.9	4.7
	E		48	40							
KRP	EP	10	47	27		1.3	5.93	223		4.0	3.7
	ES		48	32		-1.7					
CNZ	EP	10	47	38		0.3	6.86	216			
	E		49	02							
MNG	EP	10	47	50		-3.0	8.05	210			
	ES		49	15		-7.7*					
	E			59							
WEL	EP?	10	48	03		-1.1	8.90	210	5.5		

		ES		49	43	0.6				
	COB	ES	10	50	01	0.1	9.70	218	4.9	
	CIZ	E	10	48	34		10.45	169		
		ES		50	18	-0.2				
	GPZ	ES	10	50	50	1.3	11.77	210	5.3	

57/ 069

	H	M	S								
MAR 08	13	05	58.7	39.30S	177.15E	12 KM	SE	1.6	AVG	MAG	4.7
	+_		0.5	0.03	0.04	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	IP*	13	06	08.0	U	-0.1	0.49	0			
	ES*			14.5		-0.6					
WNZ	EP*	13	06	18		0.3	1.05	309		5.1	
CNZ	P*	13	06	20.9	U	-0.1	1.25	274			
MNG	IPN	13	06	27.9	D	-1.5	1.84	224		4.7	
	E			38							
KRP	EPN	13	06	33		3.3	1.86	317		4.5	
ECZ	PN	13	06	30.3		-0.5	1.94	35			
WEL	EPN	13	06	39		-2.2	2.69	222	4.3	4.8	4.5
	ESN		07	12		-1.1					
	ESG			32		2.5					
AUC	EP*	13	06	57.5		5.2*	3.07	322		5.5	
COB	E	13	07	01			3.82	241	4.7		
	E			29							
	ES*			54		-1.2					
ONE	E(PG)	13	07	22.5		-0.2	4.16	327	4.1		
CIZ	IPN	13	07	35.4	U	1.5	6.62	137			
	E		08	42.5							
	ESN			47		-0.2					

FELT WAIROA (53) AND TE HOE (64)

57/ 070

	H	M	S								
MAR 08	13	05	58.9	37.13S	175.72E	12 KM	SE	2.8	AVG	MAG	3.9
	+_		1.2	0.07	0.06	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
AUC	EPG	13	06	15.5	D	0.3	0.80	290		4.4	
KRP	EPG	13	06	13		-2.3	0.81	190		2.9	3.7
	ESG			28		1.7					
ONE	EPG	13	06	35		0.9	1.74	321	2.5		
ECZ	EPG	13	06	43		-2.9	2.32	105		5.0	4.8
	ESG		07	19.5		2.3					

FELT COROMANDEL (18) MM IV

57/ 071

	H	M	S								
MAR 08	19	37	00.3	37.56S	177.35E	310 KM	SE	2.6	AVG	MAG	3.9
	+_		3.0	0.22	0.28	25					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	IP	19	37	43.4	D	1.7	0.96	98		5.0	
TUA	EP	19	37	44		0.7	1.26	187		4.1	4.2
	ES		38	14		-2.8					
KRP	EP?	19	37	42		-2.7	1.48	255		3.2	
CNZ	EP	19	37	50		0.4	2.17	220		3.0	3.2
	ES		38	31.5		3.5					
MNG	EP	19	38	01		0.0	3.38	205		3.6	4.1
	ES			49		0.6					
WEL	ES	19	39	03		-1.5	4.22	207	4.5		4.1

57/ 072

	H	M	S								
MAR 09	14	01	19.9	44.94S	167.68E	63 KM	SE	0.9	AVG	MAG	4.3
	+_		0.8	0.03	0.05	9					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP.	14	01	31.0		-0.1	0.32	32			
MNW	IP	14	01	36.7	D	0.2	0.84	183		4.9	4.7
	ES			49		0.0					
ROX	P	14	01	42.7		0.4	1.27	115		4.7	4.3
	S			59.8		0.8					
WPZ	EP	14	01	50.2	D	-0.5	1.90	155		4.4	4.7

	ES		02 13		-0.5					
	MJZ P		14 01 53.9		-1.1	2.21	65		3.5	3.8
	ES		02 20.5		-0.7					
	GPZ E		14 02 49			3.78	72	3.8		
	COB ES		14 03 34		-5.9*	5.34	46	4.4		
	MNG EP		14 03 06		1.5	7.18	56			
	E		04 31							

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	H M S									
MAR 09	17 32 07.1	37.92S	176.89E	133 KM	SE 1.8			AVG MAG		5.3
	+- 0.8	0.04	0.04	10						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP	17 32 33.3	U	2.2	1.07	269				
	GNZ EP	17 32 34.0	U	2.0	1.15	129		5.5	5.4	
	ES	47		-4.0						
	ECZ IP	17 32 34.8	U	0.8	1.33	81		5.8	5.8	
	ES	55		0.5						
	CNZ IP	17 32 40.4	U	2.9	1.66	219		4.7	4.6	
	ES	33 02		1.3						
	AUC IP	17 32 42.0	D	0.6	1.99	302		5.9		
	MNG IP	17 32 53.7	U	0.2	2.91	202		5.1	5.1	
	ES	33 27		-1.9						
	ONE EP	17 32 52		-2.0	2.95	316	4.5			
	ES	33 28.5		-1.2						
	WEL IP	17 33 03.9	D	-0.5	3.74	205	5.8	5.1	5.7	
	ES	49		0.7						
	COB EP	17 33 14		-0.7	4.51	224	5.3			
	E	47								
	ES	34 07		0.4						
	GPZ EP	17 33 41		-1.9	6.61	208	5.8			
	ES	34 52		-5.3*						
	CIZ EP	17 34 00		1.0	7.80	143				
	ES	35 26		-0.2						

FELT ARAMOANA (64) MM IV AND GISBORNE (45)

57/ 074

	H M S									
MAR 10	02 59 41.6	38.85S	175.71E	150 KM	SE 1.0			AVG MAG		4.0
	+- 0.8	0.05	0.04	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ IP	03 00 04.0	U	1.4	0.38	200				
	ES	19		0.2						
	KRP EP	03 00 05.5		-0.4	0.93	351				
	TUA IP	03 00 08.1	U	0.4	1.12	89		3.8	3.9	
	S	27.3		-0.5						
	MNG IP	03 00 15.8		1.3	1.78	186		4.7	3.8	
	ES	40		0.2						
	GNZ IP	03 00 14.8	U	-0.1	1.82	84		4.4	3.7	
	ES	40		-0.6						
	WEL IP	03 00 24.3	D	0.4	2.54	196	3.6	4.5	3.8	
	ES	55		-1.3						
	COB ES	03 01 10		-1.1	3.20	225	3.9			
	GPZ ES	03 01 57.5		-4.6*	5.37	205	4.3			

57/ 075

	H M S									
MAR 10	11 22 05.2	37.98S	176.25E	281 KM	SE 0.3			AVG MAG		4.3
	+- 0.4	0.02	0.02	2						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP S	11 23 10.7		0.1	0.57	275				
	TUA IP	11 22 44.4	U	0.2	1.09	140		4.6	4.4	
	ES	23 14		-0.5						
	CNZ EP	11 22 45.7		-0.1	1.34	204		3.8	3.4	
	ES	23 19		1.9*						
	GNZ EP	11 22 47		-0.2	1.54	116		4.0	4.1	
	ES	23 20		0.5						
	MNG IP	11 22 57.2	U	0.1	2.70	193		4.8	4.5	
	ES	23 37.5		0.0						
	WEL EP	11 23 05		-0.3	3.50	199	4.5	4.6	4.6	

	ES		52		-0.2					
	COB ES	11 24 05			0.3	4.13	220	4.3		
	GPZ ES	11 24 52			0.1	6.33	204	4.9		

57/ 076

	H M S									
MAR 10	19 55 10.0	38.48S	175.85E	191 KM	SE 1.2			AVG MAG		4.1
	+- 1.2	0.04	0.04	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP EP	19 55 36.5		-0.1	0.61	336				
	ES	56.5		-0.7						
	CNZ IP	19 55 39.2	U	1.8	0.76	198		4.1	3.1	
	ES	56 09		10.4*						
	TUA EP	19 55 39		-0.5	1.07	108		4.1	4.2	
	ES	56 01.5		-0.8						
	GNZ EP	19 55 45		-0.2	1.71	96		3.6	4.1	
	ES	56 12.5		0.2						
	MNG EP	19 55 51.2		1.4	2.15	187		4.7	4.0	
	ES	56 20.8		0.3						
	WEL IP	19 55 59.3	D	0.4	2.92	196	4.0	4.7	4.1	
	ES	56 37		0.4						
	COB ES	19 56 50		0.1	3.54	222	3.7			
	GPZ ES	19 57 38		-2.3	5.75	204	4.4			

57/ 077

	H M S									
MAR 11	20 58 42.9	45.15S	167.68E	79 KM	SE 3.0			AVG MAG		4.5
	+- 2.3	0.13	0.14	31						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW IP	20 58 57.1	D	-1.1	0.64	184		4.6	4.6	
	ES	59 07.5		-2.3						
	ROX IP	20 59 06.7	D	1.8	1.20	106		4.7	4.7	
	ES	24		2.6						
	WPZ EP?	20 59 11		-0.6	1.72	152		4.2	4.5	
	ES	34		1.1						
	MJZ IP	20 59 19	DSW	-0.6	2.30	61		4.1	4.2	
	ES	47		0.1						
	KAI EP	20 59 42		2.1	3.76	47	4.4			
	ES	21 00 26		2.8						
	GPZ E?	20 59 41			3.84	70	4.3			
	E	47								
	ES	21 00 21		-4.2						
	WEL E	21 01 24			6.45	56	4.8			
	MNG EP	21 00 32		3.1	7.30	54				
	ES	01 46		-4.8						

57/ 078

	H M S									
MAR 12	06 50 32.6	40.53S	174.48E	33 KM	SE 2.0			AVG MAG		4.8
	+- 0.4	0.03	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNG IPN	06 50 49.6	U	3.2	0.77	97		4.7		
	WEL IPN	06 50 50.5	USE	3.8	0.78	164	5.0	5.1	4.9	
	ESN	51 03		6.1*						
	TNZ EPN	06 50 55		0.7	1.35	357		3.7	3.5	
	ESN	51 12		1.4						
	CNZ IPN	06 50 57.0	U	-0.3	1.56	32		4.7		
	TUA EPN	06 51 10.5		-2.2	2.69	51		4.8	5.1	
	P*	21.3		1.4						
	ESN	43		-0.2						
	KRP PN	06 51 11.9		-1.5	2.73	18		4.4	4.8	
	E	34.5								
	KAI E	06 51 22			3.05	228	4.7			
	ESN	52		-0.0						
	GNZ IPN	06 51 18.7	D	-2.8	3.32	57		4.4	5.2	
	E	52.3								
	SN	57.2		-1.6						
	GPZ EPN	06 51 22		-1.1	3.44	203	5.3			
	ESN	59		-2.7						
	AUC PN	06 51 27.0		0.7	3.67	4		5.4	5.8	

	ESN		52 06.5	-0.8					
ECZ	EPN?	06	51 35	0.9	4.25	49		5.0	5.0
	EP*		48	1.4					
	E		52 10						
	ESN		19	-2.2					
MJZ	EPN	06	51 39	0.6	4.56	219		4.2	4.2
	E		48						
	ESN		52 28	-0.8					
ONE	EPN	06	51 45	4.0	4.75	359	5.1		
	ESN		52 32	-1.4					
CIZ	EPN	06	52 17	-0.6	7.47	120			
	ESN		53 39	0.3					

FELT SOUTHERN TARANAKI AND ABOUT COOK STRAIT MM IV

57/ 079

	H	M	S						AVG	MAG	
MAR 12	07	41	34.5	37.42S	179.57E	117 KM	SE	2.3			4.4
		+-	1.6	0.08	0.09	14					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	07	41	52.7	U	-2.5	0.86	251		5.4	5.1
	ES		42	11		-0.0					
GNZ	EP	07	42	05.5		0.5	1.73	225		4.4	4.3
	E			16							
TUA	EP	07	42	13.7		0.6	2.36	233		4.2	
KRP	EP	07	42	23.5		-1.4	3.24	260		4.1	
CNZ	P	07	42	29.9	D	-0.2	3.63	240		4.2	3.7
	ES		43	17		4.5				5.2	
AUC	EP	07	42	35.8		2.4	3.87	277			
ONE	EP	07	42	42		0.1	4.50	290	4.2		
MNG	P	07	42	39.9		-2.1	4.51	224		3.8	3.7
	ES		43	34		0.2					
WEL	ES	07	43	53		-1.6	5.36	223	4.6		4.2
CIZ	E	07	43	23			7.15	157			
	ES		44	40		1.8					
GPZ	ES	07	45	01		-2.3	8.19	218	4.9		

57/ 080

	H	M	S						AVG	MAG	
MAR 13	02	57	37.5	38.32S	179.25E	33 KM	SE	1.8			4.1
		+-	1.0	0.05	0.05	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	IPN	02	57	53.1		0.8	0.84	318		4.9	4.9
	ESN		58	02		-1.2					
GNZ	EPN	02	57	55		0.3	1.01	251		4.1	4.3
	ESN		58	05.5		-2.0					
KRP	EP*	02	58	28		-1.4	2.95	277		3.5	3.4
	ESN			55		0.3					
CNZ	PN	02	58	23.7	D	1.4	3.02	252		3.7	3.7
	ESN		59	00		3.6					
MNG	PN	02	58	30.7		-1.0	3.71	231		3.9	3.8
	ESN		59	13		-0.1					
WEL	ESN	02	59	32		-1.4	4.55	228	4.4		4.3
ONE	S*	03	00	07.5		8.0*	4.66	302	4.1		
COB	ESN	03	00	04		2.0	5.73	239	4.2		
CIZ	E?	03	59	17			6.45	152			
	ESN		00	20		0.7					
GPZ	ESN	03	00	38		-2.3	7.33	221	4.7		

57/ 081

	H	M	S						AVG	MAG	
MAR 17	01	08	43.2	37.26S	179.70E	132 KM	SE	1.8			4.3
		+-	1.4	0.07	0.07	11					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	01	09	05.5	U	-1.1	1.01	244		5.0	4.9
	ES			22.5		-2.0					
GNZ	EP	01	09	17		0.5	1.91	223		4.2	4.4
	E			36							
TUA	EP	01	09	26		1.3	2.53	232		4.3	4.5
	ES			59		2.8					
KRP	EP	01	09	35.5		-0.0	3.37	257		3.9	3.6

	E		10 08						
CNZ	EP	01	09 41	-0.2	3.80	238		3.9	3.6
	E		10 08						
ONE	EP	01	09 52	0.8	4.54	287	4.3		
MNG	EP	01	09 52	-1.2	4.69	223		4.1	3.9
	ES		10 49	1.9					
WEL	ES	01	11 06.5	-1.2	5.35	222	4.8		4.4
COB	ES	01	11 34	0.3	6.62	233	4.4		
CIZ	E	01	10 37		7.26	158			
	ES		11 50	0.7					
GPZ	ES	01	12 13	-3.1	8.37	218	4.9		

57/ 082

	H	M	S						AVG	MAG	
MAR 17	10	02	17.6	41.31S	171.98E	33 KM	SE	2.5			3.5
		+-	1.4	0.08	0.10	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IP*	10	02	27.8	W	-2.1	0.61	69	3.4		
	ES*			36		-2.7					
KAI	PN	10	02	39.3	F	0.8	1.29	199	3.4		
	SN			54.7		0.5					
WEL	IPN	10	02	49.8	U	0.2	2.10	90	3.6	4.1	4.2
	ESN		03	15		1.2					
GPZ	EPN	10	02	55		0.8	2.43	169	3.4		
	ESN		03	20		-2.0					
MNG	PN	10	02	59.0	D	0.6	2.74	77		3.7	3.7
	P*		03	02.2		-3.6					
	ESN			34		4.6					
MJZ	EPN	10	03	00		-0.6	2.90	202		3.2	3.0
	ESN			35		1.6					
CNZ	EP*	10	03	14		-3.9	3.45	53		3.7	3.7
	ES*		04	06		2.9					
KRP	E	10	03	27			4.36	40		3.4	3.3
	ES*		04	32		1.7					

57/ 083

	H	M	S						AVG	MAG	
MAR 17	10	51	57.9	46.71S	165.59E	33 KM	SE	0.7			3.8
		+-	0.9	0.08	0.08	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	PN	10	52	23.7	U	-0.6	1.69	57		4.2	4.0
	ESN			44		-0.2					
MSZ	EPN	10	52	37.5		0.5	2.61	39		3.9	3.9
	ES*		53	18		-0.3					
MJZ	E	10	53	09			4.38	53		3.4	3.2
	ES*		54	12		0.5					

57/ 084

	H	M	S						AVG	MAG	
MAR 18	19	03	28.2	45.66S	166.35E	33 KM	SE	2.4			4.0
		+-	3.1	0.13	0.16	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP	19	00	44.0	D	0.2	0.90	98		4.2	4.0
	ES			53		-2.3					
MSZ	EP	19	00	49		-2.9	1.49	49		4.3	4.3
	ES		01	08		-1.7					
ROX	EP	19	01	01.5		1.3	2.09	86		4.3	4.1
	ES			25		0.7					
MJZ	EP	19	01	20		2.2	3.37	62		3.6	3.4
	ES			58		2.4					

FELT JACKSONS BAY (113) MM II

57/ 085

	H	M	S						AVG	MAG	
MAR 19	07	26	41.2	33.48S	179.81E	404 KM	SE	1.7			4.8
		+-	1.7	0.18	0.33	20					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	07	28	00		2.7	4.33	193		4.7	5.0
	ES			56		-1.0					
GNZ	EP	07	28	08		0.3	5.35	195		4.8	4.9
	ES			29 15		-0.5					

	KRP	EP	07 28 10		-0.6	5.64	217		4.2		
		E		12.2							
	TUA	EP	07 28 12		0.3	5.74	201		4.4	4.7	
		ES		29 24	1.2						
	CNZ	EP	07 28 22		0.0	6.67	210				
		ES		29 43	1.6						
	MNG	EP	07 28 34		-2.2	7.92	205				
		I		35.7							
		E		29 57							
		ES		30 05	-1.9						
	WEL	IP	07 28 45.2	D	-0.7	8.76	206	5.5			
		ES		30 23	-1.4						
	CIZ	E	07 31 26			10.83	166				
	GPZ	ES	07 31 27		2.3	11.64	207	5.3			

57/ 086

	H M S									
MAR 19	18 24 55.4	39.10S	174.95E	214 KM	SE 1.4		AVG MAG			4.3
	+- 0.8	0.04	0.06	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ IP	18 25 25.7	U	1.5	0.48	103				
	ES	48		1.6						
	KRP P	18 25 28.9		0.3	1.26	22		4.0	3.3	
	ES	53		-1.4						
	MNG IP	18 25 33.3	U	2.0	1.57	165		4.9	4.6	
	E	37.4								
	E	53.5								
	S	59.0		-0.0						
	TUA E	18 25 38			1.74	81		4.0	4.1	
	ES	26 00		-1.7						
	WEL IP	18 25 39.0	U	1.7	2.19	184	4.5	4.5	4.9	
	ES	26 09		-0.6						
	AUC EP	18 25 37.5		-0.2	2.24	356		4.0		
	GNZ EP	18 25 40.5		0.6	2.44	80		4.1	4.6	
	ES	26 10		-4.3*						
	COB EP	18 25 42		0.1	2.62	220	3.9			
	ES	26 17		-0.9						
	ECZ EP	18 25 48		-0.1	3.15	65		4.5	4.3	
	ES	26 28		-0.8						
	GPZ EP	18 26 10		0.3	4.91	200	4.9			
	ES	27 05		-2.4						

57/ 087

	H M S									
MAR 19	22 32 15.1	38.20S	176.08E	252 KM	SE 0.6		AVG MAG			4.0
	+- 0.6	0.03	0.03	4						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P	22 32 47.8		-0.6	0.51	303		3.4	2.9	
	ES	33 14		-0.3						
	TUA IP	22 32 51.0	U	0.3	1.03	126		4.8	4.2	
	ES	33 18		-0.4						
	CNZ EP	22 32 51.5		0.5	1.08	203		3.1	3.1	
	ES	33 20		1.1						
	GNZ EP	22 32 55		0.4	1.58	107		4.4	4.2	
	ES	33 25		-0.0						
	ECZ P	22 32 58.0	U	-0.1	2.01	76		5.3		
	MNG IP	22 33 02.3	D	-0.1	2.46	191		3.8	4.1	
	S	38.4		-0.7						
	WEL E?	22 33 07			3.24	198	4.2		4.1	
	ES	54		-0.1						

57/ 088

	H M S									
MAR 20	12 16 45.9	33.01S	179.51E	288 KM	SE 2.4		AVG MAG			4.6
	+- 2.6	0.15	0.17	26						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ EP	12 18 01.5		1.1	4.74	189		4.8	4.5	
	ES	19 01.5		2.8						
	GNZ EP	12 18 11		-1.4	5.75	192		4.2	4.4	
	ES	19 16		-4.2						

	KRP EP	12 18 17		3.0	5.88	212		3.8		
	TUA EP	12 18 17		0.4	6.09	198				
	E	59								
	ES	19 27		-0.7						
	CNZ E?	12 17 58			6.96	206				
	E	18 19								
	E	19 57.5								
	MNG EP	12 18 41		-2.2	8.25	202				
	E	20 06								
	ES	15		-0.4						
	WEL P	12 18 51.7		-1.9	9.08	203				
	ES	20 34		-0.0						
	COB ES	12 20 50		2.0	9.71	212	5.0			
	CIZ ES	12 21 26		1.4	11.35	165				
	GPZ E	12 21 58			11.94	205	5.3			

57/ 089

	H M S									
MAR 22	01 18 23.0	39.63S	174.20E	198 KM	SE 2.5		AVG MAG			4.0
	+- 2.6	0.11	0.15	19						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ P	01 18 55.8		2.2	1.13	68		3.8	3.5	
	ES	19 17		-0.4						
	MNG				1.39	136		4.6	4.5	
	WEL P	01 19 01.0		2.2	1.71	166	3.7	4.2	4.1	
	ES	28		1.6						
	COB ES	01 19 28		-0.6	1.84	217	3.4			
	KRP ES	01 19 30		-1.4	2.00	32			3.4	
	TUA EP	01 19 08		1.6	2.43	71		4.1		
	GNZ EP	01 19 15.5		0.9	3.13	73		4.2	3.9	
	ES	51.5		-3.0						
	GPZ ES	01 20 15.5		-3.2	4.23	196				

TUA TIME PLUS OR MINUS ONE SECOND
NO TIME SIGNALS AT MNG BUT S-P EQUALS 22SEC

57/ 090

	H M S									
MAR 22	05 20 38.3	38.86S	176.18E	12 KM	SE 2.4		AVG MAG			3.3
	+- 1.1	0.07	0.05	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ P*	05 20 45.1	U	1.6	0.24	345				
	CNZ ES*	05 20 58		0.1	0.60	236		2.7		
	TUA ES*	05 21 05		2.3	0.76	86		3.6	3.3	
	E	23								
	KRP EPG	05 20 59.5		-0.5	1.07	331		3.4	3.3	
	ESG	21 14		-0.4						
	GNZ ESN	05 21 20		-3.1	1.46	82			3.4	
	MNG				1.83	197		3.1		

FELT WAIRAKEI (41) MM IV
INTERPRETATION DOUBTFUL

57/ 091

	H M S									
MAR 22	06 02 18.1	38.76S	176.04E	12 KM	SE 0.5		AVG MAG			2.5
	+- 0.4	0.02	0.04	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WNZ EPG	06 02 22		0.3	0.14	20				
	SG	23.7		-0.3						
	CNZ ESG	06 02 38		-0.1	0.58	221			2.0	
	KRP EPG	06 02 37		0.1	0.93	334		2.7		
	MNG				1.90	193		2.8	2.6	

FELT WAIRAKEI (41) MM IV
INTERPRETATION DOUBTFUL

57/ 092

	H M S									
MAR 22	09 28 35.2	37.32S	177.37E	250 KM	SE 1.4		AVG MAG			4.0
	+- 1.9	0.11	0.15	15						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ P	09 29 14.6	U	1.2	1.42	159		4.4	4.0	
	ES	41		-1.7						

	TUA	EP	09 29 14	0.1	1.50	186		4.5	4.1	
		ES	45	1.3						
	KRP	P	09 29 13.7	-0.8	1.57	247		3.5		
	CNZ	EP	09 29 22	0.5	2.36	217		3.5		
	MNG				3.61	203		4.2	3.6	
	WEL	P	09 29 44.3	-0.6	4.45	206	4.2	4.2	3.9	
		ES	30 39	-0.1						

57/ 093

	H	M	S									
MAR 23	03	05	27.1	37.14S	177.36E	318 KM	SE	1.9	AVG	MAG		4.2
		+-	3.1	0.13	0.22	23						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	E?	03	06 15			1.10	121		4.4	4.2
		ES		44		0.3					
	GNZ	EP	03	06 14		1.1	1.59	161		4.3	4.4
		ES		47		-1.7					
	KRP	EP	03	06 11		-2.3	1.65	241		3.5	
	CNZ	EP	03	06 20.1		0.1	2.51	214		3.8	3.3
		ES		07 03.5		2.2					
	MNG						3.77	202		4.7	4.0
	WEL	ES	03	07 40		0.4	4.61	205			4.2
	GPZ	ES	03	08 40		-0.1	7.47	207	5.0		

57/ 094

	H	M	S									
MAR 23	19	01	58.5	41.47S	174.45E	33 KM	SE	2.1	AVG	MAG		3.7
		+-	0.9	0.05	0.05	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP*	19	02 04.2	UNE	-2.0	0.30	53	3.7		
		S*		09.5		-2.2				4.1	4.0
	MNG						1.16	43			
	COB	EP*	19	02 21.5		-1.5	1.34	286	3.1		
		ES*		39		-2.1				3.9	3.8
	CNZ	IP*	19	02 40.4	D	-0.8	2.42	21			
		ES*		03 15		1.9					
	KAI	ES*	19	03 17		1.4	2.50	244	3.4		
	GPZ	ES*	19	03 20		1.6	2.59	210	3.3		
	KRP	EP*	19	03 03.5		1.4	3.64	14		3.7	3.6
		ES*		52		2.3					

INTERPRETATION DOUBTFUL

57/ 095

	H	M	S									
MAR 24	02	16	09.2	38.55S	176.04E	159 KM	SE	1.8	AVG	MAG		4.3
		+-	1.9	0.07	0.06	15						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP	02	16 33.3	D	0.2	0.74	327		3.7	3.7
		S		50.5		-1.0					
	CNZ	P	02	16 35.9	U	2.7	0.76	211		4.3	
	TUA	P	02	16 34.6	U	0.4	0.90	107		4.5	4.5
		ES		52		-1.5					
	GNZ	IP	02	16 40.7	D	0.4	1.55	94		3.9	4.0
		S		17 04		-0.2					
	MNG						2.11	192		4.8	4.2
	WEL	IP	02	16 57.9		1.5	2.91	199	4.3	4.9	4.5
		ES		17 34		1.4					
	COB	ES	02	17 49		0.7	3.59	224	4.2		
	KAI	ES	02	18 27		-1.5	5.31	220	4.3		
	GPZ	ES	02	18 36		-2.8	5.75	205	4.7		

NO TIMING AT MNG BUT S-P EQUALS 28.5SEC

57/ 096

	H	M	S									
MAR 24	03	15	29.2	45.03S	167.08E	12 KM	SE	1.5	AVG	MAG		4.7
		+-	1.6	0.04	0.10	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	IP*	03	15 45.0	D	0.4	0.84	153		4.9	4.5
		ES*		57		1.0					
	ROX	EPN	03	15 58		0.7	1.64	106		4.6	4.7
		E		16 11.5							

		ESN	19	1.0						
	WPZ	PN	03 16 02.1	U	-0.6	2.04	143		4.9	4.9
		ESN	26		-1.4					
	KAI	EP*?	03 16 39.5		0.5	4.01	53	4.5		
		ESG	17 45.5		1.0					
	GPZ	EP*	03 16 39		-3.3	4.21	73	4.3		
		ES*	17 32		-5.3*					
	COB	EPN	03 16 54		1.7	5.72	48	4.7		
		ESN	17 55		-1.2					
	WEL	ESN	03 18 21		0.1	6.75	59	4.9		
	MNG					7.59	57			

FELT TE ANAU (130) MM IV

57/ 097

	H	M	S									
MAR 24	18	29	30.5	40.74S	176.19E	12 KM	SE	2.0	AVG	MAG		3.8
		+-	1.1	0.05	0.06	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG						0.55	282		4.1	4.0
	WEL	IPN	18	29 51.0	U	-2.0	1.21	242	3.3	4.2	4.0
		PG		55.2		0.1					
		ESN	30	10		0.3					
		SG		13.8		2.3					
	CNZ	PN	18	29 56.0		-2.3	1.61	342		3.7	3.9
		ESN	30	19		0.2					
	TUA	EPG	18	30 13		0.7	2.06	21		3.9	
	GNZ	EPG	18	30 24		2.5	2.52	35		3.9	
	COB	EP*	18	30 19		2.1	2.65	261	3.4		
		ESG		58		-1.8					
	KRP	EP*	18	30 20		-0.4	2.85	350		3.5	3.3
		ESG		31 06		-0.7					
	GPZ	ESN	18	31 12		-3.3	3.96	221	3.9		
		E		32 06							
	KAI	E	18	30 56			4.01	242	4.1		
		ESG		31 48		2.4					
	ONE	EPG	18	31 09		-5.8*	5.16	343	4.2		
		E		32 37							

INTERPRETATION DOUBTFUL

57/ 098

	H	M	S									
MAR 24	19	09	17.6	40.72S	176.48E	12 KM	SE	2.4	AVG	MAG		5.4
		+-	0.6	0.05	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG						0.76	277			
	WEL	IPN	19	09 42.2	USW	-0.5	1.41	246	5.2		
		EP*		46		3.2					
		ESN	10	00		-1.4					
	CNZ	EPN	19	09 45		-1.1	1.67	334			
	TUA	EPN	19	09 48.7		-1.4	1.98	15		5.6	5.4
		E	10	56							
	TNZ	EPN	19	09 58		4.6	2.22	313			
	GNZ	EPN	19	09 53		-2.7	2.39	30		6.0	
		EP*	10	00		0.5					
	COB	EPN	19	10 01.5		-0.8	2.86	261	5.3		
		P*		10		2.4					
		ES*		47		1.8					
	KRP	EPN	19	10 01.7		-0.9	2.88	345		5.2	
		E		06							
	ECZ	IPN	19	10 08.7	D	-1.1	3.42	29		5.5	5.0
		E		36							
		E	11	53							
	GPZ	EPN	19	10 18		-1.2	4.12	222	5.5		
		E		20							
		ESN	11	03		-3.1					
	KAI	EPN	19	10 19		-1.4	4.21	243	5.8		
		EP*		34		3.4					
		EPG		40		-2.6					
		ESG	11	38		-1.4					

	ONE	EPN	19 10 37.5			3.7	5.21	341	5.2			
		E		42								
		EPG		11 00		-2.8						
		E		12 08								
	CIZ	PN	19 10 48			2.4	6.09	124				
		ESN		11 54		0.6						

FELT SOUTHERN HAWKES BAY AND WELLINGTON PROVINCE
MAX MM V AT ARAMOANA (64) AND PORANGAHAU (64)

57/ 099

	H	M	S											
MAR 25	17	05	56.0	41.13S		172.78E		12 KM	SE	1.4	AV3	MA3		4.2
			+_ 0.3	0.03		0.03		R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	COB	IPG		17	05	56.5	W	-1.9	0.05	317				
	WEL	IPN		17	06	21.2	D	-1.2	1.51	97	4.1	4.8	4.8	
		SN				42		0.1						
	KAI	EP*		17	06	29		2.2	1.73	216	3.9			
		ESN				47.5		0.5						
	MNG								2.11	77		4.7	4.5	
	GPZ	EP*		17	06	43		1.9	2.57	182	3.4			
		ESN			07	09		1.5						
	CNZ	IPN		17	06	41.8	D	1.0	2.86	49		4.3	4.4	
		ES*			07	24		0.3						
	KRP	EPN		17	06	54.0		0.1	3.84	35		3.9	3.9	
		ESN			07	38.5		0.6						
	TUA	EPN		17	06	57		-0.1	4.08	57		4.1		
	GNZ	E		17	07	37.5			4.73	60				
	MSZ	PN		17	07	09.0		-0.9	5.03	224		4.1	4.1	
		EP*				21		-2.2						
		ESN			08	05		-1.6						
	ONE	ESN		17	08	18		0.6	5.48	14	4.3			
	MNW	EPN		17	07	23		0.4	5.98	217				
		ESN			08	30		0.7						
	CIZ	ESN		17	09	24		-1.9	8.36	113				

57/ 100

	H	M	S											
MAR 25	19	45	15.2	40.64S		173.97E		12 KM	SE	2.0	AV3	MA3		3.9
			+_ 0.6	0.04		0.04		R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	WEL	P*		19	45	33.1		1.7	0.88	137	3.2	4.0	4.1	
		PN				34.9		1.5						
		S*				42.8		-0.6						
		SN				46.4		-0.4						
	COB	EP*		19	45	33.5		-0.6	1.04	244	4.0			
		ES*				47		-1.1						
	MNG								1.15	89		3.5	4.1	
	CNZ	EPN		19	45	47		0.4	1.88	41		3.9	3.8	
		EPG				58		4.6						
	KAI	EPN		19	45	59		1.3	2.69	225	3.7			
		E			46	25								
		ESN				30		0.4						
	KRP	EPN		19	46	01		-0.6	2.97	25		3.7	3.8	
		ESN				36		-0.4						
	TUA	EP*		19	46	08.5		-0.2	3.06	54		4.1	4.0	
		ESG				55		-3.5						
	GPZ	EPN		19	46	02		-2.6	3.21	197	4.3			
		ESN				33		-8.7*						

EARTHQUAKE REPORTED FELT AT OTAKI (65) AT AN UNSPECIFIED TIME
ON THIS DATE

57/ 101

	H	M	S											
MAR 26	20	37	21.8	38.24S		177.08E		33 KM	SE	2.5	AV3	MA3		3.9
			+_ 1.2	0.08		0.05		R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TUA	EPN		20	37	30		-2.9	0.57	175		4.2	4.2	
		ESN				37		-4.0						
	GNZ	IP*		20	37	39.8	D	1.7	0.84	119		4.1	4.3	

		ES*			53		3.2					
	KRP	EPN		20	37	42.5	0.2	1.26	284		3.1	
	ECZ	ESN		20	37	57	-1.2	1.28	65		4.0	
	CNZ	EP*		20	37	50.2	0.6	1.54	231		3.6	3.5
		ES*			38	12	1.8					
	WEL	EP*		20	38	23	-0.5	3.53	210	4.0	3.7	3.8
		ES*			39	11	1.2					
	COB	E		20	39	24		4.40	228	3.9		

57/ 102

	H	M	S											
MAR 26	21	09	57.3	35.69S		179.16W		33 KM	SE	1.9	AV3	MA3		5.0
			+_ 1.4	0.08		0.07		R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ	EPN		21	10	39		1.1	2.73	222		5.3		
		ESN			11	11		2.2						
	GNZ	EPN		21	10	51		-0.5	3.71	217		5.1	5.1	
		ESN			11	35.5		2.5						
	TUA	EPN		21	10	57.5		-1.8	4.29	222		5.3	5.1	
		ESN			11	47		0.1						
	KRP	EPN		21	11	04		-2.4	4.81	241		4.6	4.3	
		ESN			12	01		1.5						
	AUC	EPN		21	11	09.5		-0.0	5.04	255		5.1	5.1	
		EP*				26		1.2						
	ONE	EPN		21	11	13		0.4	5.27	267	4.8			
	CNZ	EPN		21	11	15		-0.5	5.48	229		4.7	4.2	
		EP*				33		0.6						
		ESN			12	17		1.3						
	MNG								6.49	219				
	WEL	E		21	11	44			7.35	219	5.5			
		ESN			12	56		-4.4						
	COB	E		21	12	52			8.34	227	5.0			
		ESN			13	21.5		-2.7						
	CIZ	EPN		21	11	57		1.1	8.50	167				
		ESN			13	28		0.2						
	GPZ	E		21	12	29			10.19	216	5.5			
		ESN			14	01		-7.0*						

57/ 103

	H	M	S											
MAR 27	02	11	12.5	42.36S		171.43E		12 KM	SE	1.5	AV3	MA3		4.1
			+_ 0.4	0.03		0.04		R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KAI	IP*		02	11	14.7	X	-1.7	0.17	186	3.4			
	COB	PN		02	11	38.5		-1.6	1.60	38	4.1			
		EP*				41		-0.0						
		ESN				59		-1.6						
		ES*			12	02.5		0.2						
	GPZ	EPN		02	11	39		-1.2	1.60	147		3.6	3.5	
		P*				40.3		-0.7						
		ESN			12	01		0.4						
	WEL	IPN		02	11	55.0	D	-0.3	2.71	68	4.0	4.4	4.5	
		ESN			12	30		2.6						
		ES*				41		5.3*						
	MSZ	EPN		02	12	05		-0.0	3.44	227		4.3	4.3	
		EP*				14		1.5						
		ESN				46		1.2						
		ES*				55		-2.7						
	MNG								3.51	62		4.7	4.1	
	MNW	EPN		02	12	19		1.2	4.39	217		4.1	3.9	
		ESN			13	09.5		2.0						
	CNZ	EPN		02	12	19.4		0.9	4.44	46		4.2	4.1	
		E			13	20								
	KRP	PN		02	12	31.4	D	-0.4	5.43	37		4.5	3.9	
		ESN			13	33		0.3						
	TUA	E		02	12	40			5.62	53		4.3		

FELT W COAST OF SOUTH IS
MAX MM IV GREYMOUTH (85) AND DISTRICT

67/ 104

DATE	H M S	LAT	LONG	DEPTH			
MAR 27	04 50 55.1	32.03S	179.96E	250 KM	SE 2.9	AVG MAG	5.6
	+_ 3.5	0.19	0.20	39			

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	E	04 53 23			5.77	191		5.6	
	ES	29		0.9					
GNZ	EP	04 52 33		-0.7	6.79	193			
	E	53 38							
	E	50							
KRP	EP	04 52 39		3.7	6.91	210			
TUA	EP	04 52 38		-0.2	7.14	198			
	ES	53 56.8		-2.2					
CNZ	EP	04 52 49		-0.2	8.01	205			
	ES	54 20		1.4					
MNG					9.30	202			
WEL	EP	04 53 13		-3.1	10.14	203	5.9		
	E	55 00							
COB	ES	04 55 17		-3.9	10.74	211	5.4		
CIZ	E?	04 53 12			12.22	168			
	ES	55 55		0.6					
KAI	ES	04 56 04		3.6	12.49	211	5.3		
GPZ	E	04 56 03.5			13.00	204	5.7		

67/ 105

DATE	H M S	LAT	LONG	DEPTH			
MAR 27	08 56 11.4	35.79S	179.55W	33 KM	SE 1.7	AVG MAG	4.5
	+_ 2.1	0.13	0.17	R			

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP*	08 56 58		3.5	2.44	218		4.7	
GNZ	EPN	08 57 02		0.1	3.45	213		4.4	4.4
	EP*	11.5		-0.2					
	ESN	42		1.4					
TUA	IPN	08 57 09.7	D	0.2	4.00	220		4.6	4.6
	EP*	20		-1.2					
	E	58 03							
	E	20							
KRP	EPN	08 57 15.3		-0.7	4.48	240		4.1	
	EP*	29		-0.3					
CNZ	EPN	08 57 25		-0.5	5.18	227		3.8	3.6
	ESN	58 25		2.5					
MNG					6.21	218			
WEL	EP*	08 58 09		-4.6*	7.07	217	5.0		
	ESN	59 07		-0.8					
COB	ESN	08 59 30		-1.1	8.04	227	5.0		
KAI	ESN	09 00 11		-0.1	9.72	223	5.1		
GPZ	ESN	09 00 13		-2.8	9.92	215	5.1		

S-P AT MNG EQUALS 1M 09S

67/ 106

DATE	H M S	LAT	LONG	DEPTH			
MAR 27	13 18 10.9	44.71S	169.29E	12 KM	SE 2.5	AVG MAG	4.5
	+_ 0.7	0.06	0.07	R			

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ROX	IP*	13 18 26.3	D	1.3	0.77	179		4.9	4.9
	ESN	36		-3.9					
MSZ	IP*	13 18 24.8	D	-3.9	0.98	272		4.6	4.5
	ESN	32.5		-12.0*					
MNW	IPN	13 18 37.4	U	-0.9	1.60	227		4.8	4.8
	ESN	19 00		1.3					
WPZ	EPN	13 18 46		2.7	1.98	189		4.3	
	ESN	19 11		3.6					
GPZ	EPN	13 18 51		-1.2	2.61	68	4.3		
	EPG	19 01.5		-2.1					
	ESG	37		-1.9					
KAI	EP*	13 18 59		1.5	2.67	36	4.3		
	ES*	19 36.5		3.9					
	ESG	41.5		0.8					
COB	E	13 19 21			4.41	36	4.3		

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ESN	20 06		-0.4					
WEL	EPN	13 19 28		0.1	5.27	51	4.5	3.8	3.9
	ESN	20 26		-1.1					
MNG					6.12	50			

FELT CENTRAL AND WESTERN OTAGO
AFTERSHOCK AT ABOUT 13H 22M REPORTED FROM MINARET AND
MT ASPIRING STATIONS IS NOT CONFIRMED INSTRUMENTALLY

67/ 107

DATE	H M S	LAT	LONG	DEPTH			
MAR 28	17 46 00.0	38.61S	175.66E	193 KM	SE 1.5	AVG MAG	5.2
	+_ 1.1	0.05	0.05	9			

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	P	17 46 26.8		0.9	0.34	94			
CNZ	IP	17 46 28.9	U	2.1	0.60	189			
KRP	IP	17 46 27.6	U	0.4	0.69	352		5.2	4.2
	ES	47		-1.3					
TUA	P	17 46 31.0	U	0.5	1.18	100		5.1	5.5
	E	48							
	ES	53		-1.2					
GNZ	IP	17 46 36.7		-0.0	1.85	92		5.3	5.4
	E	54.5							
	ES	47 04.5		-0.5					
MNG	IP	17 46 41.1	U	2.7	2.01	184		5.2	5.0
	ES	47 08.5		0.4					
ECZ	IP	17 46 43.1	U	-0.1	2.45	69		5.7	5.2
	E	47 11.8							
	ES	15.5		-1.1					
WEL	IP	17 46 48.2	UNW	1.1	2.76	194	5.1	5.1	5.1
	ES	47 24		0.6					
KAI	EP	17 47 39		23.0*	5.08	218	5.0		
	ES	48 13		-1.9					
GPZ	EP	17 47 22		-0.3	5.57	203	5.5		
	ES	48 24		-2.3					

FELT AT TE HOE (64)

67/ 108

DATE	H M S	LAT	LONG	DEPTH			
MAR 29	10 21 21.6	39.61S	176.88E	12 KM	SE 2.0	AVG MAG	3.6
	+_ 1.0	0.06	0.08	R			

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	EP*	10 21 36		-0.9	0.83	15		3.6	3.8
	ES*	47		-1.2					
CNZ	IPN	10 21 43.7		0.9	1.11	291		3.9	3.8
	ESN	59.5		1.1					
GNZ	EPG	10 21 50		1.8	1.31	43		3.8	
	E	22 16							
MNG	EPG	10 21 49		-2.4	1.47	227		3.3	3.3
	ESN	22 04		-2.7					
KRP	EPN	10 21 54		-0.3	1.99	328		3.2	
WEL	EPG	10 22 10		1.4	2.32	223	3.4	3.8	3.4
	ESN	29		2.4					

FELT NAPIER (52) AND TARADALE (60)

67/ 109

DATE	H M S	LAT	LONG	DEPTH			
MAR 31	17 05 40.5	39.40S	173.24E	33 KM	SE 2.3	AVG MAG	3.7
	+_ 2.5	0.12	0.11	R			

STA	PHASE	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	EP	17 06 07.5		-1.0	1.80	84		3.3	3.2
	ES	32		2.4					
MNG	IP	17 06 10.9	U	-1.8	2.11	126		4.2	4.3
	S	35.0		-2.0					
WEL	P	17 06 14.0		-0.2	2.22	149	3.4	4.1	3.9
	ES	42		2.3					
GPZ	ES	17 07 29		-1.8	4.32	186	4.3		
MJZ	ES	17 07 50		1.9	5.03	203			3.1

	H M S									57/ 111
MAR 31	20 02 03.5	44.68S	166.61E	12 KM	SE 1.8		AVG	MAG		4.1
	+- 2.6	0.06	0.12	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
MNW	IP*	20 02 27.5	U	0.6	1.31	147		4.6	4.6	
	S*	43.3		-1.1						
WPZ	EPG	20 02 55		0.5	2.52	142		4.3	4.0	
	E	03 00								
	ES*	21.5		0.6						
MJZ	EPG	20 03 01		-0.2	2.85	77		3.5	3.6	
	ES*	33		2.2						
GPZ	EPN	20 03 10		0.4	4.45	79	4.0			
	ESN	57		-3.0						

INTERPRETATION DOUBTFUL

	H M S									57/ 111
APR 01	05 35 46.2	45.12S	167.71E	72 KM	SE 2.7		AVG	MAG		4.2
	+- 2.3	0.07	0.13	18						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
MSZ	IP	05 35 59.3	U	-0.1	0.47	18				
	S	36 10		0.7						
ROX	IP	05 36 07.8	D	0.0	1.19	108		4.7	4.1	
	S	26		2.1						
WPZ	IP	05 36 13.5	U	-1.5	1.74	153		4.5	4.6	
	E	35.5								
	S	37		0.7						
MJZ	IP	05 36 20.0	DS	-2.3	2.27	61		3.5	4.1	
	E	30								
	E	42								
	S	48		-1.2						
KAI	ES	05 37 24		-1.6	3.72	47	3.8			
	E	31.5								
GPZ	(P)	05 36 43		-0.9	3.81	70	4.2			
	ES	37 24		-3.7						
COB	S	05 38 01		-7.7*	5.45	44	4.1			
MNG	(P)	05 37 34		2.2	7.26	54				
	E	45								
	ES	38 59		5.5						

FELT MC DONNELL IS(129).MM IV.

	H M S									57/ 112
APR 03	17 56 32.3	42.24S	174.19E	12 KM	SE 2.3		AVG	MAG		3.5
	+- 0.6	0.04	0.05	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
WEL	IP*	17 56 51.0	D	-0.3	1.05	24	3.7	4.7	4.1	
	PG	54.5		0.9						
	S*	57 05		-0.5						
	SG	12.5		4.7						
COB	P*	17 57 00		-0.5	1.59	316	3.0			
	S*	19		-2.7						
GPZ	EP*	17 57 06		1.2	1.84	217	2.8			
	EPG	09		-0.5						
	E	13								
	S*	27		-2.3						
	SG	34		-0.4						
MNG	PN	17 57 02		-1.7	1.89	31		3.7	3.6	
	EP*	06		0.3						
	PG	09		-1.6						
	ES*	31		0.2						
	ESG	43		6.9*						
KAI	EP*	17 57 10		1.1	2.08	261	3.3			
	PG	16		1.7						
	S*	39		2.6						
CNZ	(PN)	17 57 24		2.4	3.21	19		3.6	3.8	
	P*	31		2.7						
	S*	58 09		-1.4						

	SG	17	-3.5					
MJZ	P*	17 57 25	-3.7	3.23	236		3.1	2.9
	EPG	37	-0.7					
	SN	58 03	3.6					
	ESG	20	-1.3					
KRP	EP*	17 57 51	1.7	4.44	14			
	EPG	58 00	-2.0					
	ESG	56	-5.8*					
MSZ	EP*	17 57 59	-2.8	5.17	240			3.1
	E	58 36						
	ESN	49	2.9					
	E	58						

	H M S									57/ 113
APR 03	18 09 43.6	42.27S	174.18E	12 KM	SE 2.9		AVG	MAG		3.5
	+- 0.9	0.05	0.07	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
WEL	IP*	18 10 03.2	D	0.2	1.07	24	3.7	4.6	4.3	
	PG	07		1.6						
	S*	17		-0.5						
	SG	25		5.1						
COB	P*	18 10 12		-0.1	1.60	317	3.2			
	S*	32		-1.4						
GPZ	EP*	18 10 17		1.2	1.82	218	2.8			
	EPG	21		0.6						
	E	26								
	S*	40		0.1						
	SG	46		1.0						
MNG	P*	18 10 14.5		-2.9	1.92	31		3.7	3.7	
	EPG	18		-4.4						
	S*	45		2.2						
	ESG	56		7.8*						
KAI	EP*	18 10 21		0.9	2.07	262	3.4			
	E	47								
	S*	52		4.5						
MJZ	EP*	18 10 37		-2.7	3.22	236		3.1	3.0	
	EPG	50		1.3						
	S*	11 15		-6.9						
	E	23								
	SG	33		0.9						
CNZ	PN?	18 10 35		1.7	3.24	19		3.7	3.8	
	E	39								
	P*	43		3.0						
	S*	11 23		0.5						
	SG	30		-2.7						
KRP	EP*	18 11 02		1.0	4.46	14				
	S*	55		-4.3						
	ESG	12 04		-9.9*						
MSZ	EP*	18 11 10		-2.9	5.15	240			3.1	
	E	49								
	ESN	12 00		2.9						

	H M S									57/ 114
APR 03	18 49 18.0	35.62S	179.53W	12 KM	SE 3.3		AVG	MAG		4.6
	+- 1.9	0.10	0.10	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
ECZ	PN	18 49 59.5	D	0.4	2.59	216		4.9	4.6	
	EPG	50 12		1.6						
	ESN	33		3.1						
	ESG	50		4.8						
GNZ	PN	18 50 12		-0.7	3.60	212		4.7	4.5	
	P*	22		1.3						
	E	51								
	SN	55		1.0						
TUA	PN	18 50 19		-1.0	4.14	219		4.9	4.4	
	ESN	51 10		2.8						
	E	53								

	KRP	PN	18 50 26	0.1	4.58	238					
		EP*	43	5.5							
		ESN	51 20	2.3							
	AUC	EP*	18 50 35	-5.7	4.76	253					
		EPG	58	3.6							
	ONE	EP*	18 50 40	-4.2	4.97	266					
	CNZ	PN	18 50 35	-0.6	5.30	226		4.2	3.8		
		P*	48	-1.9							
		PG	51 11	5.7							
		SN	39	3.9							
		S*	55	-4.1							
	MNG	PN	18 50 47	-2.7	6.35	217					
		P*	51 11	3.1							
		SN	58	-2.2							
		SG	52 38	-14.2*							
		E	53 02								
	WEL	SN	18 52 18	-2.7	7.21	217	4.9				
		SG	53 11	-10.1*							
		EL	54 00								
	COB	SN	18 52 41	-2.4	8.17	226					
	CIZ	E(PN)	18 51 20	-0.0	8.63	166					
		E	52 49								
		SN	53	-1.5							
	KAI	SN	18 53 20	-3.3	9.85	223					
	GPZ	SN	18 53 23	-5.3	10.07	214	4.8				
	MJZ	EPN	18 51 54	-1.6	11.35	220					
		SN	53 55	-3.2							
	MSZ	EPN	18 52 22	3.0	13.18	223					
		E	43								
		SN	54 37	-3.2							
	MNW	EPN	18 52 34	4.0	14.06	220					

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	H	M	S									
APR 04	03	01	27.5	40.71S	176.68E	12 KM	SE	1.8	AV3	MA3	3.9
			+- 0.7	0.03	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*		03	01	45.0	U	0.7	0.92	276			
		S*				56		-0.8					
	WEL	EPN		03	01	54.5		-0.0	1.56	248	3.7	4.0	4.3
		PG			02	01		1.9					
		E				08							
		SN				13.5		-1.1					
		SG				27		6.8*					
	CNZ	IPN		03	01	56.5	D	-0.5	1.75	330		4.4	4.2
		P*				57		-1.4					
		EPG			02	01		-1.9					
		ES*				20		-1.6					
	TUA	PN		03	01	58.3	D	-1.2	1.94	11		4.4	4.2
		PG			02	05		-1.7					
		E				10							
		SN				21		-2.1					
		E				38							
	GNZ	EPG		03	02	14		-0.3	2.31	27		3.8	3.9
		E				23							
		E				29							
		SN				33		0.8					
		S*				39		0.4					
	KRP	E		03	02	18			2.92	342			
		P*				21		2.4					
		ES*				58		1.0					
		SG			03	09		2.9					
	COB	P*		03	02	24		3.8	3.02	262	3.5		
		SN				50		0.6					
		S*				58		-1.8					
	GPZ	SN		03	03	17		-1.7	4.23	224	4.0		
	KAI	ESN		03	03	21		-0.6	4.35	244	3.7		
	MJZ	EPN		03	02	53		3.4	5.65	233		3.1	3.5

		P*	03 03	-2.3							
		SN	53	0.1							
		S*	04 17	-1.9							
	MSZ	SN	03 04 39	0.4	7.57	236					
	MNW	SN	03 04 59	2.3	8.33	230					

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	H	M	S									
APR 04	06	33	49.8	32.14S	179.38W	477 KM	SE	2.8	AV3	MA3	5.3
			+- 2.3	0.19	0.33	18						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		06	35	27		2.9	5.80	197		6.0	5.2
		E			36	40							
		S				45		6.4*					
	ONE	P		06	35	27.5		-2.0	6.34	233			
	AUC	P		06	35	34		0.4	6.74	224			
	GNZ	P		06	35	34		-0.5	6.83	197			
		S			36	56		-1.5					
		E			37	02							
	KRP	P		06	35	38		0.5	7.12	214			
		S			37	07		4.0					
	TUA	P		06	35	40		1.3	7.23	202			
		E			37	06							
		S				09		3.9					
	CNZ	P		06	35	47.4		-1.3	8.16	209			
		ES			37	18		-5.0					
		E				29							
	MNG	P		06	35	59.5		-2.7	9.42	205			
		E			37	41							
		ES				46		-1.4					
	WEL	P		06	36	11		-0.2	10.27	206	5.8		
		E			38	02							
		S				05		1.0					
	COB	S		06	38	13		-4.4	10.95	213	5.1		
	KAI	S		06	38	55		3.6	12.69	213	5.0		
	GPZ	S		06	38	57		-2.9	13.14	206	5.0		
	MJZ	P		06	36	54		0.6	14.27	211			
		S			39	22		0.5					
		E				28							
	MSZ	S		06	39	56		2.9	15.97	215			

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	H	M	S									
APR 05	12	15	53.4	38.68S	176.02E	12 KM	SE	2.0	AV3	MA3	2.6
			+- 0.6	0.04	0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	IPG		12	15	54.1	U	-2.1	0.08	52			
		SG				55		-3.0					
	CNZ	EPG		12	16	06.5		-0.0	0.64	215		2.1	2.0
		E				13							
		SG				16		0.8					
	KRP	EP*		12	16	09		0.0	0.85	333			
		PG				10		-0.7					
		SG				24		1.8					
		E				29							
	TUA	EPG		12	16	12		0.4	0.89	99		3.0	2.9
		E				14.5							
		ESG				24		0.3					
	GNZ	EPG		12	16	29		3.8	1.57	89		3.1	
	MNG	EP*		12	16	29		0.6	1.98	192		3.0	2.3
		PG				31.5		-2.0					
		ESG			17	06		5.7*					

FELT WAIRAKEI (41) MM IV.

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	H	M	S									
APR 05	12	18	23.0	38.65S	176.10E	12 KM	SE	ND	AV3	MA3	2.9
			R	R	R	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	IPG	12	18	23.7	U	-1.5•	0.02	6			
		E			24.5							
		SG			25		-1.7•					
	TUA	EPG	12	18	42		1.9•	0.84	101		2.9	2.8
		ESG			54		2.6•					

FELT WAIRAKEI (41) MM IV.

	H	M	S							67/ 119
APR 05	13	28	48.5	38.67S	176.08E	12 KM	SE	1.3	AV3 MA3	3.1
		+_	0.3	0.02	0.02	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	PG	13	28	49.1		-1.7	0.04	30			
	SG			49.9		-2.5					
	E			56							
CNZ	P•	13	29	01		-0.1	0.67	218		2.7	2.7
	PG			02		-0.3					
	E			07							
	SG			11		-0.5					
TUA	P•	13	29	04		-0.1	0.85	100		3.2	3.2
	EPG			06		0.2					
	E			13							
	S•			16		0.3					
	E			37							
KRP	PG	13	29	05		-0.9	0.85	330			
	E			13							
	ES•			16		0.2					
	ESG			20		2.5					
GNZ	EP•	13	29	17		1.4	1.52	90		3.4	3.2
	EPG			20		0.6					
	E			22							
	SG			45		5.0•					
MNG	P•	13	29	23		-0.8	2.00	193		3.3	2.8
	ES•			50		-0.3					
	ESG			58		1.9					

FELT TAUPO MM IV.

	H	M	S							67/ 121
APR 06	21	04	35.0	33.00S	180.00W	33 KM	SE	ND	AV3 MA3	5.3
		R		R	R	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	21	05	49		4.6•	4.83	194		5.1	5.2
	E		06	39							
	IS			46		8.3•					
AUC	P	21	06	05		8.0•	5.76	227			
KRP	P	21	06	06		4.3•	6.12	215			
TUA	P	21	06	05		1.6•	6.24	201			
	E			08							
	S		07	14		2.4•					
CNZ	P	21	06	18		2.2•	7.16	209			
	E		07	45							
MNG	P	21	06	30		-2.7•	8.42	204			
	S		07	59		-4.8•					
WEL	S	21	08	18		-5.9•	9.26	205	5.5		
CIZ	P	21	07	13		2.8•	11.26	167			
	E			19							
	E		09	06							
	S			17		6.1•					
GPZ	S	21	09	24		-7.2•	12.13	206	5.4		
MJZ	S	21	09	51		-6.2•	13.26	211			

	H	M	S							67/ 121
APR 09	10	10	30.4	45.28S	167.42E	81 KM	SE	2.1	AV3 MA3	4.2
		+_	1.6	0.08	0.10	17				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	10	10	44.2	D	-0.6	0.52	164		4.4	4.5
	ES			55		-0.7					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	P?	10	10	46.4	D	-0.2	0.70	30			
		I			46.8							
	ROX	P	10	10	55.3	D	0.7	1.35	99		4.8	4.2
		E			55.7							
		S		11	14.5		1.9					
	WPZ	P	10	10	59.3	D	0.2	1.71	145		4.2	4.3
		S		11	21		0.8					
	MJZ	P	10	11	10.1	DS	-0.4	2.53	60		3.7	3.9
		E			14.7							
		E			19							
		S			39.5		-1.0					
		E			45							
	KAI	E	10	11	56			3.99	48	4.2		
		S		12	20		3.6					
		E			37							
	GPZ	EP	10	11	30		-1.6	4.06	69	3.9		
		S		12	14		-4.3					
		E			19							
		E			28							
	MNG	E	10	12	25			7.53	55			
		E			39							
		ES		13	38		-6.0•					
	CNZ	E(P)	10	12	36		2.5	8.56	48			
		E			46							
		ES		14	10		0.7					
		E			33							
	KRP	ES	10	14	31.5		-1.6	9.53	42			

FELT TE ANAU MM II

	H	M	S							67/ 122
APR 09	12	59	09.6	38.97S	175.80E	12 KM	SE	0.5	AV3 MA3	3.0
		+_	0.2	0.01	0.02	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	12	59	15.9	U	-0.3	0.30	220			
	E			18							
	SG			20		-0.5					
KRP	P•	12	59	29		0.1	1.06	349			
	PG			31		-0.2					
	ES•			43		-0.2					
	SG			46		0.4					
	E			49							
MNG	P•	12	59	40		0.8	1.67	188		3.4	2.7
	ES•	13	00	01		-0.4					
	ESG			06.5		0.6					
	E			11							
GNZ	EPG	12	59	45		-0.4	1.77	80			

FELT TURANGI (40) MM IV

	H	M	S							67/ 123
APR 10	14	19	38.7	38.95S	175.86E	12 KM	SE	1.8	AV3 MA3	4.1
		+_	0.3	0.02	0.02	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	14	19	44.3		-1.8	0.35	224			
	ESG			49		-2.1					
	E			53							
WNZ	SG	14	19	50		-1.7	0.37	31			
	E			57							
	E		20	01							
TUA	IPG	14	19	58.9	U	-0.5	1.02	83		4.2	4.3
	E		20	08.5							
	SG			15		1.8					
	E			21							
KRP	IP•	14	19	57.7	U	-0.1	1.05	346			
	PG			59.5		-0.6					
	ES•		20	13		1.0					
	SG			17		2.7					
MNG	P•	14	20	08.0	D	-0.8	1.69	190		4.7	4.2

	PG		09.5	-3.6						
	S*		29	-2.3						
	SG		35	-0.9						
GNZ	EP*	14 20 10		0.8	1.72	81		4.2	3.8	
	PG		12.5	-1.0						
	ESG		37	0.3						
AUC	EPG	14 20 23		-1.3	2.25	337				
	E		41							
ECZ	PG	14 20 30		1.6	2.46	60		4.1		
WEL	PN	14 20 18.5		0.3	2.48	199	3.6	4.4	4.0	
	P*		21.5	-0.8						
	PG		29	0.0						
	SN		50	2.4						
	S*		58	3.0						
COB	(PN)	14 20 30		1.8	3.21	227	3.5			
	ES*		21 17	0.0						
	SG		27	-0.1						
ONE	PG	14 20 44		-3.2	3.38	339				
KAI	ESG	14 22 28		3.5	4.92	222	3.8			
GPZ	EPG	14 21 22		-4.4*	5.33	206				
MJZ	EPN	14 21 13		1.2	6.46	217				
	E		21							
	EP*		31	0.6						
MSZ	EPG	14 22 25		-0.3	8.24	223				

FELT MOTUOAPA(40) MM IV

	H	M	S								57/ 124
APR 10	14	20	12.5	38.98S	175.81E	12 KM	SE	1.5	AVG MAG		4.1
	+-		0.3	0.01	0.03	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	E(PG)			14	20	19		0.1	0.30	223			
WNZ	E			14	20	28			0.42	33			
	E					34							
TUA	IPG			14	20	32.9	D	-1.1	1.06	81		4.6	4.7
	E					43							
	SG					49.2		0.8					
	E					57							
KRP	P*			14	20	31.8		-0.2	1.08	348			
	S*					47		0.5					
	SG					52		3.0					
MNG	PG			14	20	44		-2.0	1.65	189		4.7	4.0
	ES*				21	05		1.2					
	SG					10		1.7					
GNZ	EPG			14	20	48		-0.1	1.76	80		4.5	4.2
	ESG				21	17		5.1*					
AUC	PG			14	20	57.5		-0.9	2.27	339			
	ESG				21	29		-0.1					
WEL	E(P*)			14	20	54		-1.2	2.44	199	3.5	4.5	4.0
	EPG				21	04		2.2					
	SG					34		-0.7					
ECZ	PG			14	21	03		-0.2	2.51	60		4.1	3.8
	E					45							
COB	(PN)			14	21	03		1.8	3.16	227	3.4		
	E					45							
ONE	EPG			14	21	20		-1.3	3.40	340	3.4		
	ESG				22	06		-1.2					
GPZ	EPG			14	21	57		-2.2	5.28	206			
MJZ	E(P*)			14	22	03		-0.3	6.41	217			

FELT SOUTH END LAKE TAUPO.MM IV

	H	M	S								57/ 125
APR 10	14	36	26.8	39.01S	175.75E	12 KM	SE	1.8	AVG MAG		3.2
	+-		0.5	0.03	0.03	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	EPG			14	36	32		-0.3	0.25	219			
	SG					36		0.0					
KRP	P*			14	36	46.5		-0.1	1.09	351			

	S*		37 02	0.7						
	ESG		05	1.2						
	PG		36 48	-1.0						
TUA	PG	14 36 48		-1.4	1.11	80		3.4	3.6	
	SG		37 04	-0.4						
	E		11							
MNG	PG	14 36 58		-1.7	1.62	187		3.4	2.9	
	SG		37 24	2.4						
	E		29							
GNZ	EPG	14 37 01		-2.5	1.81	79		3.1	3.0	
	E		06							
	ESG		31	3.0						

FELT MOTUOAPA(40) MM III

	H	M	S								57/ 126
APR 12	16	25	46.4	41.24S	174.35E	33 KM	SE	1.5	AVG MAG		3.9
	+-		0.3	0.03	0.03	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IPN			16	25	57.1	USE	2.7	0.32	99	4.1		
	ISN				26	04.8		4.6*					
MNG	IPN			16	26	04.2	D	0.1	1.06	55		4.4	4.4
	E					08							
	ESN					19		1.6					
COB	PN			16	26	06.9	E	0.5	1.23	277	4.0		
	ISN					22.4		0.9					
CNZ	PN			16	26	20.3	D	0.1	2.23	25		4.3	4.4
	E					30							
	SN					46		0.1					
	E					50							
GPZ	E			16	26	28.5			2.76	207	3.8		
	SN					56.5		-2.3					
	E					27	18						
TUA	E			16	26	36			3.24	42		4.0	4.1
	E					40							
	E					48							
	SN				27	10		-0.6					
KRP	PN			16	26	36.0	D	-0.7	3.43	16			
	P*					43		-3.4					
	E					54.5							
	SN				27	16		0.8					
	S*					27		-4.5*					
GNZ	P*			16	26	53		-0.2	3.83	49			4.3
	E					27	20						
	SN					24		-0.9					
MJZ	E			16	26	46			3.97	225		3.2	3.4
	E					50							
	P*					55		-0.6					
	E				27	11							
	SN					28		-0.2					
MSZ	E			16	27	15			5.83	232		3.6	3.4
	P*					29		1.5					
	E					50							
	SN				28	14		0.7					
	E					21							
MNW	EP*			16	27	44		2.2	6.67	225			
	SN				28	31		-2.3					
	E					39							
CIZ	PN			16	27	29		0.9	7.23	115			
	SN				28	46		-0.7					

FELT WELLINGTON MM IV

	H	M	S								57/ 127
APR 12	19	15	38.7	40.28S	173.34E	181 KM	SE	1.4	AVG MAG		3.8
	+-		0.6	0.05	0.05	8					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P			19	16	08.0		1.9	0.93	209	3.6		
	S					28		0.6					

	WEL	IP	19 16 12.2	U	1.4	1.48	133	3.5	4.0	4.2
		ES	35		-0.6					
	MNG	IP	19 16 13.6	U	0.9	1.67	102		4.0	4.4
		E	34							
		S	37		-1.9					
	CNZ	IP	19 16 16.9	D	0.6	2.02	58		4.1	3.8
		E	41							
		S	45.5		0.2					
	KRP	EP	19 16 27		0.1	2.91	37			
		E	39							
		ES	17 02		-2.1					
		E	27							
	TUA	P	19 16 32.5		0.9	3.29	65		3.8	3.7
		E	17 09							
		S	12		-0.4					
	GPZ	IS	19 17 11.3		-4.7*	3.45	188	4.7		
	GNZ	P	19 16 39.5		-0.7	3.98	67		3.6	3.4
		ES	17 29		1.3					
	MJZ	EP	19 16 46		1.9	4.28	209		2.9	3.0
		E	17 07							
		S	33		-1.6					
	MSZ	P	19 17 04.5		-1.2	5.94	221		3.6	3.7
		E	18 09							
		IS	12		-1.4					

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	H M S									
APR 13	20 19 48.1	46.20S	169.00E	12 KM	SE	0.8	AV3	MA3	3.3
	+- 0.3	0.01	0.02	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	WPZ PG	20 19 57.7	U	-0.1	0.47	193			
	S*	20 03.8		-0.0					
	SG	04.2		-0.1					
	ROX EPG	20 20 04		0.3	0.76	17		3.3	3.6
	ISG	13.6		-0.5					
	MNW PG	20 20 08.3		-1.2	1.05	293		3.9	3.6
	SG	24.7		0.9					
	MSZ P*	20 20 18.5		-0.0	1.71	333		3.4	3.2
	PG	23		0.1					
	E	26.5							
	S*	41		-0.3					
	MJZ EP*	20 20 33.5		2.4*	2.45	26		2.9	2.7
	EPG	39		1.3					
	ESN	57		0.8					
	SG	21 09.5		-1.2					

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	H M S									
APR 14	02 46 00.0	34.00S	179.00W	33 KM	SE	ND	AV3	MA3	4.5
	R	R	R	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ ES	02 47 57		9.8*	4.19	208			4.4
	GNZ E(P)	02 47 18		3.3*	5.22	207		4.2	4.3
	ES	48 11		-1.1*					
	TUA E(P)	02 47 21		-0.3*	5.71	212		4.7	4.4
	ES	48 26		2.0*					
	KRP E(P)	02 47 24		0.0*	5.91	227			
	E	34							
	ES	48 31		2.2*					
	MNG E	02 48 24			7.93	212			
	E	49 05							
	ES	11		-6.1*					
	WEL S	02 49 31		-6.7*	8.79	212	5.1		
	CIZ S	02 49 57		-12.1*	10.12	170			
	MJZ E	02 48 56			12.89	216			
	S	51 08		-5.8*					
	MSZ E(P)	02 49 11		-7.7*	14.68	220			
	MNW EP	02 49 25		-5.1*	15.59	217			

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	H M S									
APR 14	05 07 50.0	33.50S	178.00W	33 KM	SE	ND	AV3	MA3	5.1
	R	R	R	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TUA P	05 09 24		0.8*	6.59	215			
	ES	10 40		5.0*					
	KRP EP	05 09 29		2.1*	6.86	228			
	MNG E(P)	05 09 57		4.2*	6.81	214			
	E	10 09							
	ES	11 26		-2.0*					
	E	36							
	WEL P?	05 10 03.5		-0.7*	9.67	214	5.1		
	S	11 45		-3.5*					
	CIZ S	05 12 13		5.0*	10.50	174			
	MJZ ES	05 13 22		-2.4*	13.79	217			
	MNW EP	05 11 38		6.9*	16.49	218			

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	H M S									
APR 16	00 03 30	COROMANDEL PENINSULA.						AV3	MA3	3.0
		H M S	DIR	RES	DIST	AZ		W-A	W P	W S
	KRP P	00 03 46								
	S	04 02								

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	H M S									
APR 19	02 34 08.4	40.64S	176.67E	12 KM	SE	1.5	AV3	MA3	4.1
	+- 0.6	0.03	0.04	R					
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG IP*	02 34 26.8	U	1.9	0.90	271		4.5	
	S*	37.5		0.3					
	WEL P*	02 34 36.9	U	0.4	1.58	245	4.1	4.4	4.8
	PG	43		2.6					
	E	49							
	S*	55.5		-2.0					
	E	35 09							
	CNZ P*	02 34 38.7	U	0.5	1.68	329		4.4	4.3
	I	40							
	PG	43		0.6					
	S*	35 00		-0.5					
	TUA PN	02 34 39.7		0.2	1.87	12		4.6	4.1
	SN	35 03		0.5					
	E	30							
	WNZ EPG	02 34 55		5.0*	2.06	348		4.1	
	GNZ EP*	02 34 48		-0.0	2.25	28		3.3	3.9
	E	35 06							
	SN	10		-1.7					
	KRP P*	02 34 59		0.7	2.85	342			
	E	35 03							
	ES*	36		0.2					
	SG	42		-2.6					
	COB E(P*)	02 35 04		2.9	3.02	260	4.0		
	SN	31		0.7					
	GPZ SN	02 35 59		-1.7	4.27	223	4.4		
	KAI SN	02 36 03.5		0.4	4.37	243	4.2		
	MJZ PN	02 35 32		1.0	5.68	232		3.4	3.7
	EP*	45		-1.8					
	SN	36 35		0.4					
	ES*	58		-2.9					
	ESG	37 19		-1.0					
	MSZ P*	02 36 15		-4.6*	7.60	235			
	E	37 19							
	SN	21		0.7					

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	H M S									
APR 19	05 49 05.3	44.72S	168.23E	12 KM	SE	1.4	AV3	MA3	4.2
	+- 0.5	0.02	0.03	R					

			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IPG	05 49 09.8	D	-0.7	0.23	281			
	ROX	PG	05 49 26.5	D	-0.8	1.08	135		4.1	4.4
		E	28							
		E	33							
		S*	40		0.6					
		SG	42.5		0.6					
	MNW	PG	05 49 27.8	U	-0.9	1.15	202		4.9	4.5
		SG	45		0.7					
	MJZ	EP*	05 49 36		-0.5	1.76	66		4.1	3.9
		PG	38		-3.0					
		SN	57		0.1					
		S*	50 01		1.1					
		SG	03		-1.7					
	KAI	EP*	05 50 02		1.2	3.18	48	3.6		
		S*	48		5.5*					
		SG	57		4.5*					
		E	51 12			3.33	74	4.1		
	GPZ	E	05 50 09							
		EPG	12		-0.7					
		S*	48		0.9					
		E	50							
		SG	57		-0.6					
	COB	(PN)	05 50 19		1.4	4.91	44			
		SN	51 15		2.1					

	H M S							57/ 134
APR 20	02 44 03.1	38.95S	175.80E	12 KM	SE	0.7	AV3 MA3	3.1
	+- 0.3	0.01	0.02	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	02 44 08.9	U	-1.0	0.32	218			
	I	11		-0.4					
	SG	14		-0.0	1.05	348			
KRP	P*	02 44 22		0.5					
	SG	39							
	E	43		-1.2	1.06	83		3.1	3.3
TUA	PG	02 44 23.5		0.4					
	ESG	39.5		0.5	1.68	188		3.2	2.7
MNG	P*	02 44 33.5		0.3					
	PG	37.5		0.7					
	S*	56		0.1					
	SG	45 00							

FELT TOKAANU (40) MM IV

	H M S							57/ 135
APR 20	02 45 47.4	38.98S	175.62E	12 KM	SE	0.3	AV3 MA3	2.7
	+- 0.2	0.01	0.06	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	PG	02 45 52.4		-0.2	0.23	193			
	I	54							
	SG	56		0.0					
KRP	EP*	02 46 06		-0.5	1.05	357			
	ES*	21		0.4					
	E	26							
MNG	P*	02 46 16.5		-0.1	1.64	184		2.8	2.5
	PG	21		0.3					
	SG	43		0.1					

FELT TOKAANU (40) MM IV

	H M S							57/ 136
APR 20	04 40 50.4	38.97S	175.88E	12 KM	SE	1.6	AV3 MA3	4.3
	+- 0.3	0.02	0.02	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	04 40 55.8	D	-1.9	0.34	229			
WNZ	PG	04 40 58.5		0.0	0.38	27			
	E	41 01							
	ESG	05		1.2					

			H M S	DIR	RES	DIST	AZ	W-A	W P	W S
		E	08							
	TUA	IPG	04 41 10.4	U	-0.4	1.00	81		4.7	4.9
		SG	25.5		1.1					
	KRP	IP*	04 41 09.2	UN	-0.8	1.08	345			
		PG	11		-1.4					
		S*	23		-1.6					
		SG	26.5		-0.6					
	TNZ	PG	04 41 13		-1.6	1.19	259			
		ESG	33		2.3					
	MNG	IP*	04 41 19.7	U	-0.4	1.67	191		4.9	4.7
		S*	43		0.7					
		SG	46		-0.9					
	GNZ	PG	04 41 24		-1.0	1.70	80		4.4	
		E	28							
	ECZ	P*	04 41 33		-0.5	2.45	59		4.4	4.0
		EPG	41		0.9					
		S*	42 06		0.2					
		E	24							
	WEL	P*	04 41 32		-1.7	2.46	200	4.1	4.9	4.7
		E	36							
		PG	40		-0.3					
		S*	42 06		-0.1					
		SG	10		-3.5					
	COB	EPN	04 41 42		2.2	3.21	228	3.7		
		EP*	46		-0.4					
		EPG	55		-0.4					
		ESN	42 25		8.0*					
		ES*	30		1.5					
	ONE					3.41	339	3.7		
	KAI	E(PN)	04 42 06		3.2	4.91	222	3.8		
		P*	18		2.4					
		SN	58		-0.1					
		ES*	43 25		5.3*					
		SG	36		-0.0					
	GPZ	EP*	04 42 26		3.6	5.31	206	4.0		
		E	31							
		ESN	43 08		0.3					
		E	12							
		ESG	48		-1.4					
	MNW	EPG	04 43 55		-0.3	9.14	219			

FELT CENTRAL NORTH ISLAND. MAXIMUM MM V AT TOKAANU (40)

	H M S							57/ 137
APR 20	04 43 36.4	38.93S	175.84E	12 KM	SE	1.0	AV3 MA3	3.4
	+- 0.5	0.03	0.04	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	PG	04 43 43.1		-0.8	0.35	221			
	E	45							
	SG	48		-0.8					
TUA	PG	04 43 56.5		-0.8	1.03	83		3.3	3.6
	E	03.5							
	E	44 18.5							
KRP	P*	04 43 56		0.8	1.04	346			
	E	44 04							
	E	16							
	E	20							
MNG	P*	04 44 07.2		0.5	1.71	189		3.6	3.1
	PG	11		0.0					
	I	14							
	SG	35		1.0					
	E	38							

	H M S							57/ 138
APR 20	04 44 45.5	38.97S	175.77E	12 KM	SE	0.9	AV3 MA3	3.7
	+- 0.3	0.01	0.02	R				

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IPG	04	44	51.2	U	-0.4	0.28	218			
		SG			54.5		-1.2					
		E			59							
	WNZ	E	04	45	03			0.43	37			
	KRP	P*	04	45	05.0	U	0.3	1.06	350			
		SG			22		0.5					
	TUA	PG	04	45	06.5		-1.1	1.09	82		3.8	4.1
		SG			22.5		0.1					
	MNG	P*	04	45	15		0.1	1.66	188		3.8	3.4
		E			17							
		S*			38		1.1					
		SG			42		0.6					
		E			47							
	GNZ	E	04	45	24			1.79	80		3.6	3.4
		E			52							

	H	M	S								67/ 139
APR 20	04	48	02.7	38.96S	175.81E	12 KM	SE	1.0		AV3	MA3	3.7
			+- 0.3	0.01	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	04	48	08.6	D	-0.8	0.31	221			
	SG			12.5		-1.4					
	E			18.5							
WNZ	E	04	48	30			0.40	35			
TUA	PG	04	48	23.5	U	-0.7	1.06	82		3.9	4.0
	SG			39.5		0.9					
KRP	IP*	04	48	22.7	U	0.8	1.06	348			
	PG			24		-0.3					
	SG			39		0.4					
MNG	IP*	04	48	32.6	U	0.2	1.67	189		4.2	3.6
	ESN			53.5		1.2					
	S*			56		1.3					
	SG			59		-0.2					
GNZ	PG	04	48	38		-0.3	1.76	80		3.7	3.5
	E			44							
	ESG		49	01		-1.1					
WEL	SG	04	49	22		-3.5*	2.45	199	3.2		
	E			31							

FELT TOKAANU (40) MM IV

	H	M	S								67/ 140
APR 20	04	49	02.9	38.98S	175.77E	12 KM	SE	0.4		AV3	MA3	3.3
			+- 0.2	0.01	0.01	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	PG	04	49	08.5		-0.6	0.29	218			
	E			10							
	SG			13		-0.2					
KRP	P*	04	49	22.5		0.3	1.07	350			
	SG			39		-0.0					
TUA	EPG	04	49	25		-0.0	1.09	82		3.1	3.5
	SG			39.5		-0.2					
MNG	EP*	04	49	33		0.7	1.66	188		3.6	3.0
	I			34.9							
	SG			59		0.2					

FELT TOKAANU (40) MM IV

	H	M	S								67/ 141
APR 20	05	13	07.0	38.95S	175.82E	12 KM	SE	0.9		AV3	MA3	3.7
			+- 0.3	0.01	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	05	13	12.4	D	-1.7	0.33	220			
	SG			16		-2.8*					
WNZ	E	05	13	25			0.38	35			
KRP	P*	05	13	26.5	D	0.5	1.04	347			
	PG			28		-0.3					
	S*			40		-0.1					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
		SG			43		0.6					
	TUA	PG	05	13	27.2		-1.1	1.05	83		3.9	3.7
		SG			43		0.6					
	MNG	P*	05	13	37.3	U	0.3	1.69	189		4.1	3.3
		I			37.8							
		SN			58		1.0					
		S*		14	00		0.5					
	GNZ	PG	05	13	42		-0.4	1.74	81		3.6	

FELT SOUTH END LAKE TAUPO MM III

	H	M	S								67/ 142
APR 20	05	25	33.4	38.96S	175.80E	12 KM	SE	1.6		AV3	MA3	3.9
			+- 0.4	0.02	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	05	25	39.4	D	-0.6	0.31	218			
WNZ	E	05	25	44			0.40	37			
KRP	P*	05	25	53.0	U	0.6	1.05	349			
	PG			54.5		-0.2					
	S*		26	06.5		-0.0					
	SG			10		1.1					
TUA	PG	05	25	54.2		-0.9	1.07	82		3.8	3.9
	SG		26	10.8		1.3					
MNG	IP*	05	26	03.9	U	0.7	1.68	188		4.4	4.0
	I			05.0							
	S*			26		0.6					
	SG			30		-0.0					
GNZ	PG	05	26	08		-1.2	1.77	81		4.0	3.7
	E			13							
	E			24							
	E			42							
WEL	EPG	05	26	19		-4.1	2.46	198	3.5	3.9	4.0
	S*			51		2.1					
	SG			58		1.7					
COB	EP*	05	26	28		-0.7	3.17	227			
	ES*		27	10		-0.3					
KAI	ESG	05	28	33		15.2*	4.88	222			
	E			38							

FELT TOKAANU (40) MM III

	H	M	S								67/ 143
APR 20	05	56	25.2	38.96S	175.79E	12 KM	SE	0.7		AV3	MA3	3.6
			+- 0.2	0.01	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	PG	05	56	30.8	D	-1.0	0.31	218			
WNZ	E	05	56	37			0.41	37			
	E			42							
KRP	P*	05	56	44.6	U	0.4	1.05	349			
	PG			47		0.5					
	S*			58		-0.4					
	SG		57	01		0.2					
TUA	PG	05	56	46		-1.0	1.07	82		3.7	4.3
	SG		57	02		0.5					
MNG	P*	05	56	55		0.1	1.68	188		3.8	3.2
	S*		57	18		0.8					
GNZ	PG	05	57	01		-0.1	1.77	81		3.7	3.6
	E			05							
	E			16							
	E			32							
WEL	ESG	05	57	45		-3.0*	2.45	198	3.2		

FELT MOTUOAPA (40) MM III

	H	M	S								67/ 144
APR 20	06	04	20.9	38.96S	175.77E	12 KM	SE	0.4		AV3	MA3	3.3
			+- 0.1	0.01	0.01	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IPG	06	04	26.7	U	-0.5	0.29	216			
	SG			31		-0.4					

	KRP	P•		06 04 40		0.1	1.05	350					
		PG			42	-0.2							
		S•			54	-0.1							
		SG			57	0.5							
	TUA	EPG		06 04 43		0.0	1.09	82			3.4	3.9	
		SG			57.5	-0.2							
	MNG	EP•		06 04 50		-0.5	1.67	188				2.8	
		ES•			05 14	1.3•							
	GNZ	E		06 05 00			1.79	81			3.1		
	FELT SOUTH END LAKE TAUPO MM III												
	H M S												57/ 145
APR 20	06 11 17.0		38.97S	175.60E		12 KM	SE	1.1		AV3	MA3		3.0
	+- 0.7		0.02	0.16		R							
			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	CNZ	PG		06 11	21.4		-0.9	0.24	190				
		I			23								
		SG			25		-0.8						
	KRP	EP•		06 11	35		-0.9	1.04	357				
		EPG			37		-1.2						
		ES•			50		0.1						
		ESG			53		0.8						
	TUA	E		06 11	56			1.22	83				3.1
	MNG	P•		06 11	47		0.6	1.65	183			3.0	
	FELT TOKAANU (40) MM III												
	H M S												57/ 145
APR 20	07 22 31.8		38.95S	175.78E		12 KM	SE	0.7		AV3	MA3		3.4
	+- 0.2		0.01	0.02		R							
			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	CNZ	IPG		07 22	37.5	U	-0.8	0.30	215				
		E			39								
		ESG			42		-0.6						
	KRP	P•		07 22	51.0		0.4	1.04	350				
		S•		23	05		0.3						
		SG			07		-0.0						
	TUA	EPG		07 22	53		-0.8	1.08	83			3.4	3.9
		SG		23	08.5		0.1						
	MNG	P•		07 23	02		0.4	1.68	188				3.0
		S•			25		1.1						
		E			34								
	GNZ	E		07 23	10			1.78	81			3.4	
	FELT MOTUOAPA (40) MM III												
	H M S												57/ 147
APR 20	08 07 56.4		38.99S	175.75E		12 KM	SE	1.5		AV3	MA3		3.3
	+- 0.6		0.03	0.04		R							
			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	CNZ	IPG		08 08	02.3	U	0.1	0.26	217				
		ESG			04		-2.0						
	KRP	P•		08 08	16.5		0.6	1.08	351				
		PG			19		0.7						
		S•			30		-0.4						
		SG			32.5		-0.4						
	TUA	SG		08 08	33		-0.9	1.11	81				3.5
	MNG	EP•		08 08	28		2.4	1.64	187			3.2	
	FELT TOKAANJ (40) MM III												
	H M S												57/ 145
APR 21	04 01 23.0		38.49S	176.13E		159 KM	SE	1.8		AV3	MA3		5.1
	+- 0.8		0.05	0.04		6							
			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	WNZ	P		04 01	44.8		0.4	0.14	190				
		S			59		-1.8						
	CNZ	IP		04 01	49.4	D	1.9	0.84	213			4.8	4.7
		S		02	09		2.6						
	TJA	IP		04 01	47.8		0.2	0.86	112				

		ES		02 06		-0.6							
	GNZ	IP	04	01	53.7	U	0.3	1.49	96		5.7	5.3	
		S		02	16		-0.8						
	AUC	IP	04	01	59	D	0.6	1.95	326				
	ECZ	IP	04	01	59.8	U	0.1	2.07	68		6.0	5.6	
		S		02	26		-2.0						
	MNG	IP	04	02	02.6		1.5	2.18	193				
		S			31		0.5						
	WEL	P	04	02	11.9	D	0.8	2.98	200	5.2	4.9	5.2	
		S			49		1.0						
	ONE							3.06	332	4.3			
	COB	EP	04	02	21		0.9	3.68	224	4.8			
		S		03	04		-0.1						
	KAI	S	04	03	42		-2.4	5.40	220	4.8			
	GPZ	EP	04	02	47.5		-0.8	5.83	206	5.6			
		S		03	51		-3.5						
	MJZ	EP	04	03	03		-0.3	6.95	216				
		E			04								
		S		04	17.5		-3.9						
	CIZ	E	04	03	21			7.75	137				
		E		04	34								
		E			39								
		ES			42		1.5						
	ROX	ES	04	04	56		-5.3•	8.62	214				
	MSZ	P	04	03	26		-0.7	8.71	222				
		S		04	58		-5.4•						
	MNW	EP	04	03	41		2.1	9.64	218				
		ES		05	28		2.7						
	H M S												57/ 149
APR 21	22 19 58.1		38.48S	179.06E		12 KM	SE	1.8		AV3	MA3		4.0
	+- 1.4		0.04	0.06		R							
			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	GNZ	IPG	22	20	16.1	U	1.1	0.83	258			4.4	4.6
		E			20								
		ESG			28		1.7						
	ECZ	EP•	22	20	15		0.8	0.88	332			4.5	4.3
		PG			16		0.0						
		ESG			27		-0.9						
	TUA	P•	22	20	25		-0.3	1.53	257			4.2	4.5
		I			26								
		SN			42		-2.5						
		S•			44		-1.7						
		SG			47		-2.8						
	KRP	P•	22	20	50		2.4	2.83	280				
		PG			54		-1.3						
		ES•			21	25	0.3						
	CNZ	P•	22	20	48		0.3	2.84	254			3.8	3.2
		ESG			21	37	3.3						
	MNG	EPG	22	21	10		1.2	3.50	231			3.4	3.4
		SN			32		0.4						
		S•			40		-4.8•						
	GPZ	ESN	22	22	56.5		-1.9	7.12	221				
	H M S												57/ 150
APR 21	22 46 34.3		38.46S	179.04E		12 KM	SE	1.7		AV3	MA3		3.9
	+- 1.5		0.04	0.07		R							
			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W S
	GNZ	IPG	22	46	52.0	U	1.0	0.82	257			4.3	4.5
		E			56								
		SG		47	04.5		2.3						
	ECZ	PG	22	46	52.5	U	0.7	0.86	333			4.4	4.2
		ESG		47	03		-0.4						
		E			05								
	TUA	P•	22	47	01		-0.4	1.52	256			4.0	4.2
		EPG			05		-0.2						
		SN			18		-2.6						

		S*			20		-1.7						
	KRP	P*	22	47	26		2.5	2.81	280				
		PG			29		-2.2						
		ES*		48	01		0.5						
	CNZ	EP*	22	47	23		-0.8	2.83	254		3.6		
	MNG	EPG	22	47	47		1.9	3.50	231		3.1	3.2	
		SN		48	08		0.1						
	GPZ	ESN	22	49	34		-0.8	7.12	221				

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	H	M	S										
APR 22	12	29	24.6	37.97S		177.87E		123 KM	SE	3.0	AVG	MAG	4.6
		+_	1.5	0.09		0.07		11					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	IP		12	29	41.0	D	-2.8	0.60	63		5.2	5.1
		E				46							
		S				54.0		-4.5					
	GNZ	IP		12	29	45	U	0.5	0.69	170		4.9	4.7
		E				51							
		E				57							
		S			30	00		0.4					
	TUA	P		12	29	48.5		1.2	1.02	214		4.2	4.7
		E				55							
		IS			30	05.5		0.9					
	KRP	IP		12	29	57.5	DE	0.7	1.85	271			
		S			30	20		-1.1					
	CNZ	P		12	30	03.7	U	2.4	2.20	235		3.8	3.7
		E				21							
		ES				34		5.0					
	AUC	P		12	30	10		1.9	2.70	293			
	MNG	EP		12	30	17		2.0	3.23	214			
		S				54		0.6					
	WEL	S		12	31	13		-1.0	4.09	215	4.6		4.7
	GPZ	S		12	32	19		-4.5	6.96	213	4.7		
	CIZ	P		12	31	14.5		4.4	7.31	147			
		E				18							
		S			32	33		0.9					
		E				36							
	MJZ	E(P)		12	31	23		0.7	8.22	221			
		S			32	49		-5.0					
	MNW	S		12	33	56		-2.6	10.92	221			

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	H	M	S										
APR 23	20	43	32.3	39.89S		176.70E		33 KM	SE	1.6	AVG	MAG	4.2
		+_	0.4	0.02		0.03		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP*		20	43	52.0	D	-1.0	1.12	307		4.7	
		ES*			44	06		-2.3					
	MNG	IP*		20	43	52.8		-1.3	1.18	231			
		ES*			44	08		-2.1					
	WNZ	P*		20	43	57.5		0.9	1.33	340		4.2	
		E			44	03							
	GNZ	PN		20	43	56		-1.6	1.61	40		4.5	4.3
		E			44	03							
		E				10							
		E				33							
	WEL	PN		20	44	03		-0.4	2.03	226	3.7	4.3	4.4
		E				11							
		SN				27		0.1					
		E				29							
	KRP	PN		20	44	06		0.9	2.16	335			
		EP*				13		2.5					
		ES*				40		0.9					
	ECZ	EPN		20	44	09		-2.5	2.62	34		3.8	4.0
		P*				18		-0.5					
		E				33							
		SN				37		-4.3*					
	COB	EP*		20	44	32		2.7	3.25	247	3.8		

		ESN			58		1.3						
		ES*		45	13		1.1						
	KAI	ESN	20	45	35		1.1	4.78	235	3.8			
	GPZ	SN	20	45	34.5		-1.4	4.87	217	4.5			
	MJZ	EPN	20	45	00		-0.1	6.20	227				
		E			12								
		P*			21		1.4						
		SN		46	08		0.1						
	CIZ	EPN	20	45	05		1.3	6.46	131				
		E		46	10								
		E			13								
		ESN			15		0.7						
	MSZ	ESN	20	46	51		-1.8	8.08	231				

FELT SOUTHERN HAWKES BAY. MAXIMUM WAIPAWA MM V

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	H	M	S										
APR 25	19	08	25.9	39.63S		176.90E		12 KM	SE	1.2	AVG	MAG	4.0
		+_	0.6	0.03		0.03		R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TUA	PG		19	08	41.6		-1.5	0.85	13		4.2	4.3
		SG				54		-0.7					
	CNZ	IPG		19	08	48.9	U	0.0	1.13	292		4.0	3.8
		SG			09	05.5		1.3					
	GNZ	EPG		19	08	53		0.4	1.32	42		3.9	3.9
		E				57							
		ESG			09	12		1.5					
		E				15							
	MNG	EPG		19	08	56		0.4	1.47	227			
		SG			09	15		-0.4					
	KRP	P*		19	09	00		-1.4	2.01	328			
		PG				07		0.4					
		S*				24		-4.0*					

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	H	M	S										
APR 26	15	19	16.1	39.19S		174.64E		205 KM	SE	1.7	AVG	MAG	5.3
		+_	0.6	0.04		0.04		6					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP		15	19	46.2	D	1.4	0.70	91			
		E			20	03							
		S				07		-0.1					
	WNZ	(P)		15	19	49	D	0.5	1.27	64		4.7	4.6
		E				52							
		E			20	05							
		S				13.5		-0.2					
		E				18							
	KRP	IP		15	19	50.3	D	0.3	1.44	29			
		E				52							
		I			20	00							
		S				15		-1.3					
		E				38							
	MNG	IP		15	19	53.2	U	2.1	1.57	156			
		IS			20	18		-0.2					
	TUA	IP		15	19	55.5	D	0.3	1.99	80		5.4	5.7
		E			20	02							
		E				17.5							
		S				22.5		-2.9					
	WEL	IP		15	19	58.4	USE	2.1	2.10	177	5.3	5.5	5.5
		S			20	28		0.6					
	AUC	EP		15	20	00		1.2	2.33	3			
	COB	P		15	20	01.7		2.2	2.40	217	5.2		
		S				34.5		1.4					
	GNZ	IP		15	20	02.2	D	-0.8	2.69	79		5.8	5.9
		E				30							
		ES				33.5		-5.7*					
	ECZ	P		15	20	09.9	D	-1.5	3.41	65		5.8	5.7
		E				19							
		E				41.5							

	E		48							
	S		52		-2.2					
ONE	EP	15	20	13	1.5	3.41	356			
	E			45						
GPZ	P	15	20	28.2	S 0.2	4.75	198	5.9		
	S		21	22	-1.9					
MJZ	P	15	20	41.5	0.9	5.73	212		4.3	4.7
	S		21	45	-1.3					
ROX	EP	15	21	01	-1.5	7.42	210			
	ES		22	23	-2.7					
MSZ	P	15	21	02.0	-0.6	7.42	220			
	S		22	23	-2.8					
CIZ	E	15	21	23		8.13	129			
	S		22	45	2.8					
	E			54						
MNW	EP	15	21	16.5	1.4	8.38	216			
	S		22	49	0.9					
	E			51						

FELT WAIRERE(66) AND MOAWHANGO(58) MM IV

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	H	M	S						AVG	MAG	2.5
APR 26	20	35	57	NEAR TOKAANU (40).					W-A	W P	W S
				H	M	S	DIR	RES	DIST	AZ	
CIZ	P			20	36	02.8	D				
	E					04.5					
	(SG)					08					
MNG	EP*			20	36	28					
TUA	ESG			20	36	33					

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	H	M	S							AVG	MAG	4.9
APR 28	00	42	40.7	34.83S		179.87W	221 KM	SE	2.2			
			+_ 1.7	0.09		0.11	14					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P			00	43	32		-1.4	3.13	204		5.3	5.2
	S				44	15		0.7					
	E					32							
GNZ	P			00	43	44		-1.8	4.17	203		4.9	4.8
	ES				44	34		-2.4					
	E					55							
TUA	P			00	43	51		-0.6	4.63	210		4.8	5.0
	S				44	47		0.2					
	E				45	13							
AUC	(P)			00	43	57		3.4	4.79	243			
ONE	P			00	43	53		-0.8	4.81	257			
KRP	P			00	43	54		0.0	4.82	229			
	S				44	55		4.0					
	E				45	02							
CNZ	(P)			00	44	08		2.9	5.70	219		4.6	4.4
	E				45	34							
MNG	P			00	44	17		-2.8	6.85	211			
	S				45	36		-1.3					
WEL	S			00	45	55		-2.1	7.71	212	5.4		
CIZ	E			00	45	01			9.47	165			
	S				46	41		3.4					
GPZ	E			00	46	59			10.58	211	5.2		
	S				47	04		0.7					
MJZ	EP			00	45	22		-1.3	11.80	216			
	S				47	30		-1.4					
	E					49							
MSZ	P			00	45	45		-0.5	13.58	220			
	E					54							
	S				48	13		1.3					
	E					33							

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	H	M	S						AVG	MAG	4.7
APR 28	23	22	13.0	33.50S		179.50W	33 KM	SE	ND		
			R	R		R	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	23	23	21		3.4*	4.48	200		4.7	4.6
	S		24	13.5		6.3*					
GNZ	EP	23	23	33		1.4*	5.51	201		4.5	4.4
	ES		24	37		4.8*					
KRP	P	23	23	42		4.1*	5.98	221			
	ES		24	51		7.5*					
CNZ	P	23	23	54.5		3.5*	6.95	214			
	E		24	03							
	S		25	12		5.4*					
	E			18							
MNG	E	23	24	07			8.16	208			
	E			20							
	E			33							
	ES		25	32		-3.5*					
	E		26	16							
WEL	S	23	25	53		-2.9*	9.01	209	5.0		
COB	ES	23	26	13		-1.0*	9.77	217			
CIZ	E	23	24	46			10.69	168			
	S		26	29.5		-5.9*					
	E			35							
GPZ	E	23	26	53			11.88	209	5.0		
	ES		27	00		-3.4*					
MJZ	S	23	27	27		-3.7*	13.06	214			

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	H	M	S						AVG	MAG	4.3
APR 29	10	27	03.2	44.74S		167.97E	33 KM	SE	2.2		
			+_ 0.8	0.04		0.07	R				
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP*			10	27	12.3	D	3.6	0.07	332			
MNW	IPN			10	27	20.8	D	-0.4	1.07	193		4.4	4.7
	P*					23		-0.1					
	SN					34.5		-0.1					
	S*					38		0.2					
ROX	PN			10	27	23.5		0.5	1.21	128		4.2	4.4
	E					39							
	SN					40		2.1					
MJZ	IPN			10	27	32.5	UNE	-0.7	1.94	68		4.0	4.1
	E					44							
	SN					55.5		-0.2					
WPZ	PN			10	27	33		-1.2	2.02	162		3.9	4.3
	SN					57		-0.6					
KAI	(P*)			10	28	02.5		0.9	3.34	50	4.2		
	SN					30		0.3					
	E					36.5							
	S*					46		0.6					
GPZ	E(P*)			10	28	01		-3.8	3.52	74	3.7		
	E					11							
	E					30							
	ESN					37		2.8					
	E				29	02							
COB	EPN			10	28	14.5		-1.2	5.05	45	4.3		
	E				29	10							
	SN					11		-0.4					
WEL	SN			10	29	34		-1.6	6.06	58	4.4		
MNG	E			10	28	45			6.90	56			
	P*				29	00		-2.6					
	ESN					54		-1.6					
	ES*				30	17		-15.3*					
CNZ	PN			10	28	57		3.0	7.90	48			
	E				29	08							
	SN				30	24		4.4					
	E					37							
KRP	E(P*)			10	29	31		-5.3	8.87	43			
	E				30	42							
	SN					44		1.2					
ONE	ESN			10	31	14		-0.1	10.19	31	4.8		

	H M S										57/ 159
APR 30	17 19 13.5	37.10S	176.96E	12 KM	SE 2.4			AVG MAG			3.8
	+- 1.1	0.07	0.05	R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P*	17 19 41			2.6	1.40	234				
	PG	44			2.3						
	E	47									
	ECZ PG	17 19 41			-0.8	1.40	115		4.5	4.3	
	SG	20 03			2.3						
	TUA P*	17 19 43			-0.8	1.71	175		4.2	3.7	
	S*	20 04			-2.5						
	GNZ P*	17 19 44			-0.6	1.76	152		4.2	3.8	
	PG	49			-0.0						
	SG	20 11			-1.7						
	AUC E	17 20 01				1.76	277				
	CNZ P*	17 19 58			2.9	2.37	208		3.2		
	ONE E(PG)	17 20 02			-1.5	2.48	302	2.9			
	E	11									
	SN	20			-2.2						
	MNG E(PN)	17 20 12.5			3.1	3.69	198		3.1		
	PG	25			-3.2						

	H M S										57/ 160
MAY 01	18 24 41.5	43.33S	171.00E	12 KM	SE 1.8			AVG MAG			4.8
	+- 0.6	0.05	0.07	R							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	MJZ P*	18 24 55.5	U		-0.1	0.76	210		4.4		
	E	25 09									
	KAI P*	18 24 58.8			1.5	0.86	21	3.4			
	I	25 01									
	E	04.7									
	ES*	07.4			-1.6						
	GPZ P*	18 25 05.0			1.0	1.25	108	3.5			
	I	06.3									
	I	28									
	ROX P*	18 25 26.7			2.0	2.46	209		4.4	4.4	
	S*	54			-3.1						
	MNW EP*	18 25 43			1.5	3.44	223		4.2		
	E	26 17									
	WEL PN	18 25 34.5			0.2	3.46	55	4.3	4.1	4.2	
	SN	26 14			-0.2						
	MNG EPN	18 25 43.2			-2.5	4.30	52		3.4	3.2	
	I	50.2									
	ESN	26 34			-0.5						
	CNZ EPN	18 26 02.0			2.1	5.36	41		4.1	3.9	
	E	27 03									
	KRP EPN	18 26 13.5			-0.4	6.41	34				

	H M S										57/ 161
MAY 01	22 01 43	NEAR ROTORUA(33).						AVG MAG			3.1
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP PG	22 01 54.8							3.2	3.1	
	SG	02 02.5									
	MNG PG	22 02 33							3.1		
	FELT.										

	H M S										57/ 162
MAY 01	23 06 59	NEAR ROTORUA(33).						AVG MAG			2.8
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP PG	23 07 11							2.8		
	SG	19									
	FELT.										

	H M S										57/ 163
MAY 01	23 18 58	NEAR ROTORUA(33).						AVG MAG			3.2

		H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	KRP PG	23 19 09.9							3.2	
	FELT.									

	H M S										57/ 164
MAY 01	23 28 28	NEAR ROTORUA(33).						AVG MAG			2.9
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP EPG	23 28 40							2.9		
	FELT.										

	H M S										57/ 165
MAY 02	02 09 17	NEAR ROTORUA(33).						AVG MAG			2.8
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP PG	02 09 28.8							2.8	2.7	
	SG	36.8									
	FELT.										

	H M S										57/ 166
MAY 02	15 42 34.2	36.24S	178.37E	246 KM	SE 1.1			AVG MAG			5.0
	+- 1.0	0.05	0.06	8							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	GNZ IP	15 43 20.8			0.1	2.42	187		5.7	5.3	
	S	56			-0.8						
	TUA					2.75	200		4.9	5.2	
	KRP P	15 43 26.0			0.9	2.83	233		4.2		
	ES	44 05			0.4						
	AUC P	15 43 27.0			0.5	2.96	257		5.6		
	ONE EP	15 43 28			-2.1	3.28	277				
	CNZ P	15 43 37.0			2.0	3.71	216		4.3		
	MNG P	15 43 49.5			-0.0	4.93	207		4.5	4.8	
	S	44 48			-0.3						
	WEL P	15 44 00.3			0.2	5.78	208	5.4	4.6	4.9	
	S	45 07			-0.1						
	COB S	15 45 25			0.4	6.55	221	5.1			
	KAI ES	15 46 03			-0.8	8.28	219	5.1			
	GPZ S	15 46 12			-0.3	8.65	209	5.5			

	H M S										57/ 167
MAY 03	10 48 49.8	38.97S	175.71E	152 KM	SE 2.3			AVG MAG			5.6
	+- 1.1	0.07	0.06	14							
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ P	10 49 12.0		D	1.4	0.26	209				
	WNZ P	10 49 11.2			-0.1	0.46	42				
	E	30.5									
	TNZ E	10 49 38				1.05	258				
	KRP P	10 49 15.2			-0.1	1.06	353		4.8		
	E	31									
	TUA P	10 49 17.0		D	0.9	1.14	82		5.3		
	MNG IP	10 49 24.7			3.3	1.65	186				
	GNZ P	10 49 23.3		D	-0.1	1.84	80		5.7	5.7	
	S	45			-4.4						
	AUC IP	10 49 32		D	3.8	2.23	341		5.7		
	WEL P	10 49 33.2			2.7	2.42	197	5.8	5.1		
	S	50 03.3			1.6						
	ECZ P	10 49 32.0			-0.5	2.57	61		6.0	5.5	
	ES	50 02			-3.2						
	COB P	10 49 37.1			-2.2	3.11	226	5.7			
	S	50 16.0			-1.2						
	KAI E	10 50 08				4.82	221				
	S	57			-0.2						
	GPZ P	10 50 08.9			1.5	5.25	205	6.2			
	S	51 06.2			-1.2						
	CIZ P	10 50 46.2			6.8*	7.64	133				
	E	01									
	S	52 07			2.2						
	MSZ EP	10 50 45.5			-0.4	8.13	223				
	I	49									

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           S              52 13           -3.6
     MNW   EP          10 50 59            0.9   9.06  219
           S              52 37           -1.5
     USCGS ORIGIN      10 48 51  38.7S 175.8E  107KM
     FELT CENTRAL AND SOUTHERN PARTS OF NORTH ISLAND.
     MAXIMUM MM IV IN SOUTHERN HAWKES BAY.

                                                                   67/ 168
       H  M  S
MAY 04 13 53 49.0    45.20S  167.33E   33 KM   SE  ND      AVG MAG   3.6
           R            R        R          R
                        H  M  S     DIR  RES    DIST   AZ   W-A  W P  W S
     MNW     P*      13 54 01.0          -0.4*  0.61  161        3.6  3.6
             S*            08.2          -2.1*
     MSZ     P*      13 54 03.7           1.3*  0.67   38        3.9  3.9
             S*            13.0           1.0*
                                                2.55   63        3.2  3.1
     MJZ
     S-P INTERVAL AT MJZ 36SECS

                                                                   67/ 169
       H  M  S
MAY 07 07 38 02.1    38.66S  176.13E   33 KM   SE  1.8     AVG MAG   3.0
            +- 0.8    0.05     0.04         R
                        H  M  S     DIR  RES    DIST   AZ   W-A  W P  W S
     WNZ                                        0.03  318
     CNZ    ES*      07 38 27.5           1.4   0.71  220             2.2
             E             31
             E             39
     TUA     E       07 38 35                   0.81  101             3.5
     KRP     E       07 38 04                   0.87  327             3.0
              S*           30.5          -0.2
             E             43
     GNZ    ES*      07 38 48            -0.8   1.48   90             3.3
            ES*            50             1.2
     MNG    ESN      07 38 55            -1.5   2.02  194             2.9
     A PRELIMINARY SHOCK AT 07 34 24 OBSCURED P PHASES
     FELT TAUPO MM III

                                                                   67/ 170
       H  M  S
MAY 07 10 10 53.5    39.54S  177.03E   12 KM   SE  1.3     AVG MAG   4.0
            +- 0.5    0.03     0.04         R
                        H  M  S     DIR  RES    DIST   AZ   W-A  W P  W S
     TUA     P*      10 11 08.2           1.1   0.73    8        4.2  4.8
             S*            17            -0.2
     GNZ    EPN      10 11 15.0          -0.6   1.18   41        3.9  4.0
             E             20.3
             E             26.8
            ES*            30.5          -0.1
     CNZ     P*      10 11 16.2           1.2   1.19  286        4.6
            ES*            29.8          -1.2
     MNG     PN      10 11 21.8           0.7   1.60  227        3.4  3.8
             E             33
            ESN            39            -2.5
     KRP     PN      10 11 25.4          -0.8   1.99  324        3.4
             E             33.4
             E             36.3
     ECZ     E       10 11 42                   2.19   33
     WEL    EPN      10 11 33             0.5   2.46  224   3.7
             E             58
            ESN         12 03             1.3
     COB    ESN      10 12 32             1.8   3.63  243   3.9
             E             38
     KAI    ESN      10 13 08             0.1   5.19  233   4.2
     GPZ    ESN      10 13 09            -1.4   5.30  217   4.4
     FELT PATOKA (52) MM IV

                                                                   67/ 171
       H  M  S
MAY 08 18 45 02.5    33.73S  178.40W  222 KM   SE  1.9     AVG MAG   5.3
            +- 1.4    0.09     0.09        14
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                        H  M  S     DIR  RES    DIST   AZ   W-A  W P  W S
     ECZ     P       18 46 11.2          -2.7   4.67  211        5.2  5.3
             E             25
            ES          47 12             2.6
     GNZ    EP       18 46 25.8          -1.0   5.69  210        5.0  5.0
            ES          47 32            -0.5
     TUA     P       18 46 31.8          -1.7   6.21  214
             S          47 46             1.6
     ONE    EP       18 46 35             0.4   6.30  249
             E             51
     AUC     E       18 46 34                   6.39  239
             E             46
             E             58
     KRP    EP       18 46 35.8          -0.9   6.46  228
     CNZ    EP       18 46 46            -1.7   7.31  220
            ES          48 12             2.1
     MNG    EP       18 47 00            -2.0   8.43  214
             S          48 36             0.5
     CIZ    EP       18 47 28             1.8  10.30  173
             S          49 18            -0.8
     KAI    ES       18 49 54            -1.1  11.88  219   5.6
     GPZ     S       18 50 00            -1.2  12.15  212   5.9
     MJZ    EP       18 48 07             1.8  13.40  217
             S          50 28.5          -1.0
     MSZ    EP       18 48 29             1.7  15.20  220
            ES          51 08            -1.7
     MNW    EP       18 48 42             3.8  16.10  218
     USCGS ORIGIN    18 44 56.8  33.2S 178.4W  50KM  MAG 5.3

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       H  M  S
MAY 11 06 07 53.9    41.06S  173.61E  125 KM   SE  1.6     AVG MAG   4.0
            +- 1.0    0.06     0.05        10
                        H  M  S     DIR  RES    DIST   AZ   W-A  W P  W S
     COB    EP       06 08 15.0           1.2   0.66  267   4.2
             S             28.2          -0.8
     WEL     P       06 08 17.9           2.2   0.90  105   4.3  4.2  4.8
             S             32.3          -0.1
     MNG     P       06 08 22.9     U     0.9   1.49   73        4.1  4.3
             I             35.5
             S             42            -1.4
     KAI     S       06 09 00             1.4   2.20  228   3.5
     CNZ     P       06 08 34             1.0   2.38   39        3.6  4.2
            ES          09 01            -1.6
     GPZ     S       06 09 10            -1.1   2.73  195   3.8
     MJZ     E       06 09 02                   3.74  217        3.3
             S             35             0.3
     MSZ    ES       06 10 16            -1.9   5.52  227             3.6

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       H  M  S
MAY 11 09 25 07.0    44.46S  169.22E   12 KM   SE  1.6     AVG MAG   3.6
            +- 0.7    0.05     0.04         R
                        H  M  S     DIR  RES    DIST   AZ   W-A  W P  W S
     MSZ     P*      09 25 24.0          -0.4   0.96  257        3.7  3.9
             S*            36.2          -1.2
     MJZ     P*      09 25 27.0           1.7   1.01   63        2.9
             S*            38.2          -0.8
     ROX     P*      09 25 25.5          -0.0   1.02  176        3.6  3.9
             S*            38            -1.3
     MNW     P*      09 25 37.5          -0.4   1.74  220        3.6  3.3
             S*         26 03.5           2.5

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       H  M  S
MAY 11 23 49 55.7    33.34S  178.99E  298 KM   SE  2.5     AVG MAG   5.4
            +- 1.9    0.11     0.13        18
                        H  M  S     DIR  RES    DIST   AZ   W-A  W P  W S
     ECZ     P       23 51 03            -3.3   4.36  185        5.1  5.6
             S          52 03             1.5
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ONE	P	23 51 13.0	4.8	4.53	236				
AUC	P	23 51 13.0	0.2	4.92	223		5.9		
GNZ	P	23 51 14.5	-3.2	5.35	188		5.0	5.3	
	E	52 15							
KRP	P	23 51 20.5	2.5	5.37	211		4.7		
	I	22.2							
	E	52 30							
TUA	EP	23 51 20	-1.4	5.65	195		4.8	5.2	
	S	52 30	1.4						
CNZ	P	23 51 31	-0.3	6.47	204				
	ES	52 55	8.7*						
MNG	EP	23 51 43	-4.4	7.78	200				
	I	46							
	E	53 11							
	S	14	-1.1						
WEL	EP	23 51 56.0	-1.5	8.61	202	6.0			
	S	53 31	-2.4						
COB	ES	23 53 47	0.6	9.20	211	5.6			
KAI	ES	23 54 27	1.7	10.94	211	5.6			
CIZ	S	23 54 34	4.2	11.15	163				
GPZ	EP	23 52 33	0.2	11.47	204	6.1			
	ES	54 35	-1.9						
MJZ	EP	23 52 47	1.1	12.53	210				
	S	55 00	-0.5						
MSZ	EP	23 53 07.5	1.6	14.20	214				
	ES	55 37	-0.1						

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H	M	S							
MAY 12	21	59	52.8	39.35S	178.08E	33 KM	SE	1.1	AV3 MA3 4.5
			+- 1.0	0.05	0.09	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IP	22	00	07.3	D	1.5	0.71	356		4.7	5.1
	S			14.0		-1.2					
TUA	IP	22	00	08.0	U	-0.5	0.90	306		5.2	
ECZ	P	22	00	19		-0.3	1.69	13		4.4	
	E			32							
CNZ	P	22	00	23.8		0.6	1.97	274		4.6	
	E			32.4							
MNG	P	22	00	29.0		0.5	2.36	237		3.9	
	E			48							
KRP	EP	22	00	30		0.4	2.45	305		3.8	
	E			36							
WEL	S	22	01	16.7		1.0	3.19	232	4.2	4.4	
COB	ES	22	01	46		-0.3	4.45	245	4.3		
GPZ	S	22	02	21		-1.7	5.96	221	4.6		

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H	M	S							
MAY 14	01	32	05.7	38.94S	174.85E	224 KM	SE	0.9	AV3 MA3 4.0
			+- 0.8	0.04	0.07	7			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	01	32	37.0		1.0	0.60	116		3.1	3.3
	ES			59		-0.5					
KRP	P	01	32	38.0		-1.0	1.15	28		3.7	
MNG	IP	01	32	45.0		1.1	1.74	164		4.5	4.2
	S			33 13.0		-0.4					
WEL	P	01	32	50.0		0.3	2.34	182	4.3	4.1	4.3
	S			33 24		0.2					
COB	EP	01	32	54		0.5	2.69	217	4.0		
	ES			33 31		0.4					
GPZ	EP	01	33	21		-0.7	5.03	199	4.5		
	ES			34 20		-0.8					

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H	M	S							
MAY 14	14	40	43.7	38.03S	176.45E	12 KM	SE	0.7	AV3 MA3 3.8
			+- 0.4	0.03	0.02	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	PG	14	40	59.0		0.5	0.73	278		4.2	3.8
	ESG		41	08		-0.4					
TUA	PG	14	41	03.3		0.3	0.95	145		4.2	
CNZ	EPG	14	41	12		0.7	1.36	211		3.1	
ECZ	PG	14	41	17.8		-0.2	1.70	79		4.2	
MNG	EP*	14	41	31		0.2	2.69	196		3.3	
	EPG			37		-1.1					

FELT LAKE OKATAINA (33) MM IV

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H	M	S							
MAY 16	12	06	46.6	41.74S	174.31E	12 KM	SE	1.6	AV3 MA3 4.4
			+- 0.5	0.04	0.04	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	P*	12	06	57.2	U	-0.2	0.57	38	4.5		
	S*		07	04.2		-1.1					
COB	P*	12	07	10.0		-0.8	1.35	298	4.0		
	S*			26.8		-2.0					
MNG	P*	12	07	11.8		-0.3	1.43	39		4.9	
	S*			30.8		-0.3					
KAI	E	12	07	34			2.30	249	3.9		
	ES*		08	00.5		3.2					
GPZ	EP*	12	07	26		-1.2	2.31	211	3.7		
	ES*			56		-1.7					
	E		08	02							
CNZ	EP*	12	07	33.2		-0.8	2.70	21			
	E			30.8							
MJZ	E	12	07	45			3.61	230		3.7	
	EP*			50		0.5					
TUA	EP*	12	07	52		1.9	3.64	38		4.9	
	E			46.0							
	E		08	59							
KRP	EPN	12	07	47.0		1.4	3.92	14		5.1	4.7
	E			52							
	EP*			56		1.2					
	S*		08	52		5.9*					
MSZ	E	12	08	13.0			5.51	236		4.3	
	E		09	16							

FELT BOTH SIDES COOK STRAIT MM IV

57/ 179

H	M	S							
MAY 16	14	00	25.9	38.92S	175.81E	12 KM	SE	1.5	AV3 MA3 3.5
			+- 0.3	0.02	0.04	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	PG	14	00	32.0		-1.2	0.35	216			
KRP	PG	14	00	45.0		-1.5	1.02	348		3.5	3.2
	SG		01	02		1.7					
TUA	PG	14	00	46.5		-0.8	1.05	84		3.7	3.8
	I			48							
	SG		01	02		0.4					
MNG	EP*	14	00	56.0		-0.3	1.72	188		3.6	3.4
	ES*		01	20.8		1.7					
	ISG			23.8		-0.0					

FELT SOUTH END LAKE TAUPO MM IV

57/ 180

H	M	S							
MAY 17	17	48	00.5	37.98S	176.49E	12 KM	SE	1.6	AV3 MA3 3.9
			+- 0.9	0.07	0.04	R			

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	PG	17	48	16.2		0.3	0.75	274			
	E			26							
TUA	PG	17	48	20.8		0.4	0.97	148		4.1	
GNZ	PG	17	48	29.0		0.6	1.38	119		4.2	
CNZ	EPG	17	48	28		-1.4	1.42	211		3.1	
ECZ	PG	17	48	33		-1.1	1.65	81		4.3	
MNG	PN	17	48	46		2.3	2.75	196			
	EPG			55		-1.1					

		I			53								
	ONE	E		17	48	55			2.78	322			
		E			49	04							

FELT TAURANGA(26)

57/ 181

	H	M	S									
MAY 17	17	58	14.7	38.06S	176.46E	33 KM	SE	1.6		AVG MAG		4.7
	+-		0.6	0.05	0.05	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WNZ	P*	17	58	28.0		0.5	0.64	206			4.1		
KRP	P*	17	58	26.8	U	-2.4	0.74	280					
TUA	IP*	17	58	31.0		-1.5	0.93	144			5.2		
CNZ	P*	17	58	38.0		-1.3	1.35	212			4.3		
	I			42.0									
GNZ	P*	17	58	39.5		-0.0	1.36	116			5.4		
ECZ	P*	17	58	44.9		-0.2	1.69	78			5.1		
MNG	PN	17	58	55.5		0.9	2.67	196			4.4		
	IP*		59	04.0		2.3							
	E			46									
ONE	EPN	17	58	57		0.2	2.83	323					
	EP*		59	06		1.5							
	E			11									
WEL	EP*	17	59	20		4.4*	3.48	202			4.3		
	E			08									
COB	E		17	59	20			4.18	222				
MJZ	E		18	00	06			7.46	216				
MSZ	E		18	00	29			9.21	221				

FELT BAY OF PLENTY,ROTORUA.MAX MM IV OR V AT LAKE OKATAINA(33)

57/ 182

	H	M	S									
MAY 17	18	48	51.5	37.99S	176.52E	12 KM	SE	1.3		AVG MAG		3.9
	+-		0.6	0.04	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	PG	18	49	08.2		0.8	0.78	275			4.3		
TUA	PG	18	49	12.2		1.3	0.95	149			4.2		
	I			41.0									
GNZ	PG	18	49	19.0		0.2	1.35	119			4.3		
	E			22.1									
	E			24.3									
CNZ	PG	18	49	21.0		0.6	1.43	212			3.4		
	E			24.0									
ECZ	EPG	18	49	24.0		-0.5	1.63	80					
	E			24.8									
MNG	E		18	49	38.5			2.74	197			3.5	
	EPG			45		-2.0							
ONE	EPG	18	49	48		-0.3	2.81	321					
	E			53									

57/ 183

	H	M	S									
MAY 17	18	50	09.4	37.89S	176.44E	12 KM	SE	1.5		AVG MAG		4.8
	+-		1.0	0.08	0.05	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	P*	18	50	22.0		-0.7	0.71	267					
WNZ	P*	18	50	25.0		1.0	0.79	199			4.1		
TUA	P*	18	50	26.5		-2.4	1.08	149			5.3		
GNZ	P*	18	50	36.0		0.6	1.46	122			5.4		
CNZ	P*	18	50	36.0		0.1	1.49	208			4.4		
ECZ	P*	18	50	39.8		0.6	1.68	84			5.5		
	E			41.0									
ONE	E		18	51	04			2.68	321				
MNG	PN	18	50	53		-0.7	2.83	195			4.5		
	P*		51	01		2.1							
WEL	P*	18	51	12		-0.7	3.63	200			4.3		
	E			20									
MJZ	E		18	52	02			7.59	215				
MSZ	E		18	52	25			9.33	221				

FELT BAY OF PLENTY,ROTORUA.MAX MM V AT LAKE OKATAINA(33)

57/ 184

	H	M	S									
MAY 17	18	52	42.4	38.05S	176.50E	12 KM	SE	1.5		AVG MAG		4.1
	+-		0.8	0.06	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	PG	18	52	58.5		0.4	0.77	279					
TUA	PG	18	53	01.4		0.3	0.92	146			4.4		
GNZ	PG	18	53	10.8		1.2	1.34	117			4.5		
CNZ	PG	18	53	11		0.8	1.37	213			3.4		
ECZ	PG	18	53	15.0		-1.0	1.66	78			4.7		
MNG	PG	18	53	35		-1.7	2.68	197			3.4		

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	H	M	S									
MAY 17	19	06	05.2	38.01S	176.48E	12 KM	SE	1.3		AVG MAG		4.3
	+-		0.5	0.04	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WNZ	EP*	19	06	18		0.0	0.68	205			3.8		
KRP	IP*	19	06	17.8	U	-1.3	0.75	276					
TUA	P*	19	06	21.2		-1.4	0.96	147			4.8		
GNZ	P*	19	06	29.9		0.2	1.37	118			5.0		
CNZ	P*	19	06	29.5		-0.6	1.39	211			3.9		
ECZ	P*	19	06	35.0		0.2	1.67	80			4.9		
MNG	EPN	19	06	47.9		-0.1	2.71	196			3.9		
	IP*			55.0		2.3							
ONE	EP*	19	06	55.0		0.8	2.80	322					
	E			07	02								
	E			06	51								
WEL	E	19	07	12			3.53	201			4.0		

FELT BAY OF PLENTY MAX. MM IV AT TE TEKO (34)

57/ 186

	H	M	S									
MAY 17	20	32	49.7	38.05S	176.51E	12 KM	SE	0.9		AVG MAG		4.5
	+-		0.4	0.02	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WNZ	E	20	33	09			0.66	209					
	ESG			12		-0.3							
KRP	PG	20	33	05.4	U	-0.1	0.78	279					
	E			15.6									
TUA	PG	20	33	09.4		1.3	0.91	147			4.6		
GNZ	PG	20	33	16.7	U	0.1	1.33	117			4.8		
CNZ	PG	20	33	16.9		-0.6	1.37	213			3.9		
ECZ	PG	20	33	22.0		-1.1	1.65	78			5.0		
	E			45									
MNG	E	20	33	35.8			2.69	197			4.2		
	IPG			44.0		0.0							
ONE	EPN	20	33	35		0.7	2.85	322					
	E			49									
	E		34	20									
WEL	E	20	33	58			3.50	202			4.1		

FELT LAKE OKATAINA(33)AND TAURANGA(26)

57/ 187

	H	M	S									
MAY 18	11	41	33.6	37.96S	176.44E	12 KM	SE	1.2		AVG MAG		4.3
	+-		0.7	0.06	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	IP*	11	41	46.5	D	-0.4	0.72	273			4.4		
	E			56									
WNZ	EP*	11	41	48.5		1.5	0.72	202			3.9		
TUA	IP*	11	41	50.9	U	-1.1	1.01	147			4.7		
GNZ	P*	11	41	58.5		-0.5	1.42	119			4.8		
	I			42	01.5								
CNZ	P*	11	41	57.9		-1.1	1.42	209			3.7		
	E			42	03								
ECZ	EP*	11	42	04.4		0.8	1.69	81			4.7		
	E			33									
ONE	E	11	42	19			2.75	322					
	E			30									

	MNG	EPN		11 42 16.5		-0.4	2.75	195		3.8	
		EP*			23	1.2					
		E			26						

FELT TE RANGA(26)

67/ 188

	H	M	S										
MAY 19	05	09	18.6	35.66S	178.81W	149 KM	SE	1.2	AVG	MAG	5.8		
	+-	0.9		0.06	0.05	12							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		05	10	06.3		0.4	2.94	226		5.9	6.0
		I				15							
		E				51							
	TUA	P		05	10	26.0		-0.2	4.50	225		5.6	6.0
		E				35							
		E			11	23							
	KRP	EP		05	10	33.4		-0.3	5.07	242		4.8	5.0
		E				52							
		IS			11	33.5		1.7					
	ONE	P		05	10	39.0		-1.2	5.55	267			
	CNZ	EP		05	10	42.0		-0.3	5.71	230		5.6	
		E			11	48.5							
		E				53.5							
	MNG	EP		05	10	53		-2.4	6.68	221			
		E			11	03							
	WEL	EP		05	11	08		1.1	7.54	220	6.2		
		S			12	32		0.8					
	CIZ	EP		05	11	19.8		0.7	8.46	169			
		E				31							
		S			12	53		-0.2					
	COB	S		05	12	56		0.3	8.57	228	6.2		
	KAI	E		05	11	46			10.23	225	6.3		
		S			13	34		-1.1					
	GPZ	EP		05	11	45		0.7	10.37	217	6.5		
		S			13	36		-2.5					
	MJZ	EP		05	12	02		0.3	11.70	221			
		S			14	09		-0.7					
	MSZ	P		05	12	26		0.5	13.55	224			
		S			14	49		-3.8*					
	MNW	EP		05	12	37		0.6	14.40	221			
		S			15	14		1.5					
	USCGS	ORIGIN		05	09	10.9	34.9S	179.0W	35KM	MAG	5.2		

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	H	M	S										
MAY 20	04	33	34.1	36.97S	177.64E	249 KM	SE	1.2	AVG	MAG	4.6		
	+-	1.2		0.07	0.06	7							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		04	34	09.8		0.5	1.02	135		4.6	4.8
		E				29							
		ES				36		-0.8					
	GNZ	P		04	34	12.8		-1.4	1.70	170		5.0	5.0
		E				39							
		S				44		-1.2					
	TUA	P		04	34	17.0		1.3	1.88	192		4.5	4.8
		ES				48		0.2					
	KRP	P		04	34	16.0		-0.1	1.93	240		4.0	
		S				48.5		-0.1					
	CNZ	EP		04	34	25.5		0.9	2.77	216		3.5	3.6
		E			35	16							
	ONE	E		04	34	22			2.90	293			
	MNG	P		04	34	39.2		0.6	4.01	204		4.3	4.6
		E			35	21.5							
		S				31.0		2.3					
	WEL	P		04	34	49.0		0.4	4.86	207	5.2	4.4	4.9
		S			35	48		1.2					
	COB	ES		04	36	03		-0.5	5.61	221	4.9		
	KAI	ES		04	36	41		-1.4	7.34	219	4.9		
	GPZ	S		04	36	51		-0.3	7.72	208	5.2		

	CIZ	E		04 37 19					8.26	149	
	MJZ	ES		04 37 16		-1.6			8.89	216	

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	H	M	S										
MAY 20	23	10	51.8	34.19S	178.70E	250 KM	SE	1.7	AVG	MAG	4.4		
	+-	1.7		0.09	0.11	18							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		23	11	49.5		-0.8	3.49	182		4.9	4.9
		S			12	35		-0.7					
	ONE	EP		23	11	57		2.1	3.90	245			
	GNZ	EP		23	12	00		-1.8	4.47	187		4.3	4.6
		ES				57		0.7					
	KRP	EP		23	12	04		1.7	4.52	214		3.6	
	TUA	EP		23	12	06		0.7	4.77	195		4.4	4.2
		ES			13	03		0.3					
	CNZ	EP		23	12	15		-0.6	5.60	206		3.7	
	MNG	P		23	12	29		-2.9	6.91	201			
		E			13	46							
		S				51		0.7					
	WEL	ES		23	14	08		-1.2	7.74	203	5.3		
	CIZ	ES		23	15	12		1.9	10.41	161			

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	H	M	S										
MAY 22	10	00	03.2	37.36S	177.31E	191 KM	SE	1.8	AVG	MAG	4.5		
	+-	1.2		0.06	0.06	10							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		10	00	29.8		-2.6	1.03	109		4.8	4.7
		E				44							
		E				47.5							
	TUA	E		10	00	40			1.45	185			4.5
		ES			01	00		-1.2					
	KRP	IP		10	00	37.4		0.9	1.52	248		4.5	3.7
		S			01	02.3		-0.0					
	AUC	P		10	00	43		0.6	2.09	283		5.3	
	CNZ	P		10	00	46.3		1.6	2.30	217		3.8	3.6
		ES			01	19		2.3					
	ONE	EP		10	00	51		-0.3	2.86	303			
	MNG	P		10	00	59.7		0.0	3.55	203		3.9	4.2
		E			01	13							
		ES				43		-0.3					
	WEL	E		10	01	15			4.39	206	4.8	4.5	4.5
		S			02	02.2		0.1					
	COB	ES		10	02	21		1.5	5.15	222	4.8		
	KAI	ES		10	02	58		-1.8	6.87	220	4.8		
	GPZ	S		10	03	06		-2.9	7.26	208	5.0		
	CIZ	ES		10	03	30		2.2	8.06	147			

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	H	M	S										
MAY 22	19	59	21.0	38.43S	175.82E	187 KM	SE	1.9	AVG	MAG	4.8		
	+-	1.2		0.06	0.05	10							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		19	59	47.8		0.9	0.55	336		4.5	3.9
		S		20	00	05.0		-1.9					
	CNZ	P		19	59	50.6		2.4	0.80	195		4.5	
	TUA	P		19	59	51.2		0.8	1.11	110		4.8	5.2
		S		20	00	11.3		-1.9					
	GNZ								1.74	98		4.9	
	MNG	IP		20	00	03.8	U	2.7	2.20	187		4.8	4.4
		S				33		1.0					
	ECZ	P		20	00	02.9		1.0	2.28	72		5.6	4.6
		ES				32.0		-1.5					
	WEL	P		20	00	11.8		1.6	2.97	195	4.7	4.9	4.8
		S				48		-0.2					
	COB	ES		20	01	02		0.9	3.56	221	4.7		
	KAI	ES		20	01	41		0.3	5.30	218	4.6		
	GPZ	EP		20	00	46		0.0	5.78	203	5.2		
		S			01	49.5		-2.5					

MJZ	S	20 02 13.0	-4.4*	6.86	214		
CIZ	ES	20 02 43	-0.4	7.96	136		
MSZ	ES	20 02 55	-3.2	8.60	221		

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	H	M	S									
MAY 23	18	10	35.6	37.48S	176.61E	254 KM	SE	1.0		AV3	MA3	4.6
	+_		0.8	0.04	0.04	6						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	P	18	11	11.0		0.0	0.96	242			3.9		
	ES			38		-0.6							
TUA	P	18	11	14.0		0.1	1.39	162			4.5	4.8	
	E			40.5									
	S			44.0		0.7							
ECZ	P	18	11	15.8		0.8	1.55	98			5.0	4.7	
	E			38									
	ES			44		-1.4							
GNZ	P	18	11	15.0		-0.5	1.61	137			5.1	4.9	
	E			43									
	S			46.2		0.1							
CNZ	P	18	11	19.3		1.4	1.91	206			3.6		
ONE	EP	18	11	23		-0.4	2.49	313					
MNG	P	18	11	32.3		0.8	3.25	195			4.6	4.3	
	S		12	14.8		-0.2							
WEL	EP	18	11	41.0		0.2	4.06	200	4.8	3.9	4.5		
	S		12	32		0.5							
COB	ES	18	12	45		-0.0	4.69	219	4.8				
KAI	ES	18	13	25		1.5	6.43	217	4.8				
GPZ	S	18	13	33		-1.2	6.90	205	5.1				
MJZ	ES	18	13	57		-2.0	8.00	214					

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	H	M	S									
MAY 26	04	14	41.2	45.07S	167.71E	119 KM	SE	1.7		AV3	MA3	4.0
	+_		2.2	0.16	0.11	23						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
MSZ							0.42	20					
MNW	IP	04	15	01.0	D	0.1	0.72	185			4.7	4.4	
	S			14.8		-1.1							
ROX	EP	04	15	06.8		1.1	1.20	110			3.8	3.8	
	S			25.0		0.7							
MJZ	P	04	15	18.8		0.5	2.25	62			3.4	3.8	
	S			47.0		0.7							
GPZ	ES	04	16	21		-2.1	3.79	71	4.0				

S-P INTERVAL FOURTEEN SECS AT MSZ

57/ 195

	H	M	S									
MAY 27	15	36	55.3	41.17S	175.25E	33 KM	SE	0.4		AV3	MA3	3.7
	+_		0.2	0.02	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WEL	IP	15	37	04.0	U	-0.1	0.39	252	3.7				
	S			10.2		-0.2							
MNG	P	15	37	06.1		-0.3	0.58	17					
COB	S	15	37	47		0.2	1.91	272	3.5				
	E			51.5									
CNZ	P	15	37	26.0		0.3	1.98	7			3.9		
	E			54									
GPZ	ES	15	38	18		0.1	3.18	217	3.8				
KRP	EP	15	37	43		-0.1	3.25	4			3.7		
	E			55									
	E		38	31									
MJZ	EP	15	38	01		0.5	4.52	230			3.5		
	ES			50		-0.5							

FELT WELLINGTON MM IV

57/ 196

	H	M	S									
MAY 30	03	18	12.1	41.40S	174.66E	46 KM	SE	0.4		AV3	MA3	3.7
	+_		0.2	0.01	0.01	2						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WEL	P	03	18	20.4		0.2	0.14	36	4.2				
	S			26.0		-0.1							
MNG	P	03	18	30.0		-0.2	1.00	39					
COB	P	03	18	37.0		0.1	1.48	281	4.0				
	S			55.3		-0.2							
KAI	ES	03	19	26		0.6	2.67	244	3.6				
	E			32									
GPZ	ES	03	19	27		-0.0	2.74	212	3.5				
KRP	E	03	19	12			3.54	11				3.6	
	ES			47		0.0							
	E			50									
	E			58									
MJZ	ES	03	19	59		-0.4	4.03	229					
MSZ	E	03	19	44			5.92	234			3.6	3.4	
	S			20 44		-3.0*							

FELT ABOUT COOK STRAIT.MAX.WELLINGTON MM IV.

57/ 197

	H	M	S									
MAY 30	08	04	46.9	38.57S	176.61E	33 KM	SE	7.8		AV3	MA3	3.8
	+_		3.1	0.25	0.27	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	EP*	08	05	14		7.4	1.06	307			3.2		
	E			29									
GNZ	EP*	08	05	15.5		8.1	1.11	94			4.1		
	E			55									
ECZ	EPN	08	05	06		-8.3	1.76	61			4.6		
	E			11									
MNG	EPN	08	05	16		-4.6	2.22	203			3.0		
	E			16									
	EP*			26		-0.2							
AUC	EP*	08	05	29		2.4	2.24	319					
	E			29									
	E			55									
ONE	ESN	08	06	08		-4.9	3.32	327	3.8				

57/ 198

	H	M	S									
MAY 30	09	00	51.1	36.24S	177.66E	33 KM	SE	1.5		AV3	MA3	3.9
	+_		3.1	0.20	0.13	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
ECZ	EP*	09	01	19		-1.2	1.62	154			4.6	4.6	
	E			36									
KRP	EPN	09	01	28		0.8	2.39	225			3.4		
	E			43									
AUC	E	09	01	51			2.40	254					3.7
GNZ	EPN	09	01	28		0.4	2.42	173			4.1	4.1	
	E			36									
TUA	EP*	09	01	36		-0.9	2.60	189			4.2		
ONE	ES*	09	02	14		-0.7	2.71	279					2.9
MNG	EPN	09	02	01		2.3	4.70	201			3.4		
	EP*			12		-0.8							

57/ 199

	H	M	S									
MAY 30	11	27	04.9	35.69S	178.72E	33 KM	SE	2.6		AV3	MA3	4.2
	+_		3.9	0.18	0.16	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
ECZ	E	11	27	44			2.01	184			4.7		
	ESN			59		-0.0							
GNZ	EP*	11	27	56		-1.7	3.01	190			4.3	4.5	
	ESN			28 24		0.7							
	E			31									
TUA	EPN	11	27	58		3.7	3.36	201			4.2		
KRP	PN	11	27	51		-3.8	3.39	228			4.1		
	E			28 16									
AUC	EP*	11	28	07		2.7	3.39	249					
	E			43									
ONE	ES*	11	28	53		-0.4	3.55	267	3.9				

	MNG	EPN	11	28	23		-1.0	5.55	206			3.5	
		E			35								
	WEL	ESN	11	29	45		-0.3	6.39	208	4.7			
	H	M	S										57/ 201
JUN 01	23	20	20.8	40.30S		173.50E	196 KM		SE	1.6		AV3	MA3 5.0
			+- 0.5	0.03		0.04	6						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB	IP		23	20	52.7	W	2.5	0.98	216	4.3		
		S			21	13.0		0.1					
	WEL	IP		23	20	55.8	USE	2.4	1.38	136	5.1	4.9	
		S			21	18.2		-0.4					
	MNG	IP		23	20	57.0	D	2.1	1.55	103			
		S			21	20.0		-1.2					
	CNZ	IP		23	20	59.7	U	1.1	1.92	56			
		ES			21	29		1.3					
	KAI	EP		23	21	10		2.4	2.73	214			
		I				10.8							
		S				43.5		-0.3					
	KRP	P		23	21	08.9		-0.2	2.85	35			
		E				18							
		I				24							
		E				43							
		S				44		-2.4					
	TUA	EP?		23	21	13		-0.1	3.19	63		4.9	5.2
		I				13.7							
		S				51.5		-2.0					
	GPZ	P		23	21	17.5		1.2	3.46	190	5.9		
		IS				56.9		-2.3					
	GNZ	P		23	21	21.3	D	-0.2	3.87	66		5.2	5.1
		E			22	02.5							
		S				06		-2.4					
	MJZ	P		23	21	28.8		1.6	4.32	210		4.0	4.4
		E				33							
		S			22	17		-1.5					
	ONE	EP		23	21	32		1.8	4.56	9			
		E				46							
		ES			22	23		-1.0					
	ECZ	P		23	21	31.8		-0.4	4.71	58		5.5	5.2
		E			22	17							
		S				28		0.6					
	MSZ	P		23	21	49.4		0.5	6.01	221			
		E			22	09							
		S				55		-2.4					
		I				58.5							
	ROX	P		23	21	49		0.0	6.02	209			
		E			22	02							
		S				53		-4.6*					
	MNW	P		23	22	01		-0.4	6.97	216			
		S			23	19		-0.8					
	WPZ	S		23	23	24		-1.3	7.20	206			
	CIZ	S		23	23	51		1.4	8.24	120			
		E				54							
	H	M	S										57/ 201
JUN 02	16	06	55.7	39.32S		175.79E	85 KM		SE	1.8		AV3	MA3 3.9
			+- 0.8	0.05		0.05	11						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP		16	07	08.4	U	-0.1	0.23	303			
		ES				16.5		-1.7					
	TUA	P		16	07	19.0	D	1.3	1.18	65		4.5	4.4
		S				35		0.8					
	MNG	IP		16	07	20.2	U	0.7	1.32	190			
		I				22							
	KRP	P		16	07	21.4	DS	0.7	1.41	352			
		E				29							
		E				35							

		S			39.5		0.1						
		E			52								
	GNZ	P	16	07	27	D	0.5	1.87	69		3.7	3.8	
		E			38								
		ES			47		-2.2						
		E		08	04								
		E			12								
	WEL	P	16	07	31.5		1.7	2.11	201	3.4	4.1	4.0	
		E			35								
		E			42								
		S			56		0.9						
		E		08	05								
	COB	ES	16	08	18		2.3	2.93	232	3.3			
		E			21								
	GPZ	S	16	09	04		-2.0	4.97	207				
	MJZ	S	16	09	30		-4.8*	6.13	219				
	MSZ	ES	16	10	16		-3.0	7.93	225				
	H	M	S										57/ 202
JUN 03	16	57	51.2	36.68S		177.77E	237 KM		SE	2.2		AV3	MA3 4.3
			+- 1.5	0.08		0.08	10						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		16	58	25		-1.3	1.18	149		4.9	4.6
		E				49							
		S				52		-1.4					
	GNZ	IP		16	58	32.4	U	-0.2	1.97	174		4.9	4.6
		S			59	05		0.4					
	KRP	IP		16	58	34.9	UW	0.3	2.17	235			
		S			59	09		0.8					
	TUA	P		16	58	34		-0.6	2.18	193		4.3	4.3
		ES			59	09		0.7					
	ONE	P		16	58	42		-0.4	2.90	287			
	CNZ	P		16	58	45.0		0.9	3.07	214		3.6	3.3
		ES			59	29		3.8					
	MNG	IP		16	58	57.7		-1.2	4.32	204		4.4	4.1
		ES			59	51		-0.4					
	WEL	P		16	59	07		-2.2	5.16	206	4.6	4.1	4.3
		S		17	00	09		-0.9					
	GPZ	S		17	01	12		-3.2	8.03	208	4.6		
	CIZ	EP?		16	59	55		4.0	8.45	151			
		E		17	00	00.5							
		E				04							
		ES		01	33		8.2*						
		E				37							
	MJZ	E		17	00	12			9.18	215			
		S			01	39		-2.5					
	MSZ	S		17	02	25		3.3	10.93	220			
	H	M	S										57/ 203
JUN 04	04	04	17.6	38.92S		176.69E	12 KM		SE	2.3		AV3	MA3 3.4
			+- 0.6	0.04		0.03	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TUA	IPG		04	04	26.1	D	0.5	0.38	73			
		SG				33		2.1					
	CNZ	PG		04	04	36.8	D	0.3	0.93	252		3.4	3.3
		SG				52		2.9					
		E				57							
	GNZ	P*		04	04	37		-0.2	1.08	76		3.3	3.7
		E				44							
		ES*				49		-2.8					
		ESG				55		0.8					
	KRP	E(PG)		04	04	46		1.2	1.34	317			
		E				49							
		ESG			05	01		-1.9					
	MNG	PN		04	04	49		-0.6	1.93	208		3.3	3.2
		E				57							
		PG			05	01		4.2					

		SN			14		0.8					
		SG			35		12.1*					
	WEL	SN		04	05	33.5	-0.8	2.79	211	3.4		3.6
		SG			52		0.4					
	GPZ	SN		04	06	40	-3.3	5.66	211			
	MJZ	ESN		04	07	09	-3.5	6.89	221			
		E				23						

FELT TE HOE(42).

	H	M	S									57/ 214
JUN 07	07	44	42.0	49.00S	163.40E	33 KM	SE	ND		AVG	MAG	3.8
			R	R		R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	(PN)	07	45	59		0.9*	5.32	37		3.9	3.7
	E		46	09							
	E			22							
	ESN			59		2.3*					
	E		47	10							
ROX	E	07	46	07			5.35	51			
	E		47	05							
MJZ	E(PN)	07	46	17		-3.6*	6.99	47			
	E			29							
	E			35							
	ESN		47	35		-1.6*					
	E			56							

	H	M	S									57/ 215
JUN 07	08	08	25.0	41.51S	173.09E	129 KM	SE	1.4		AVG	MAG	4.0
		+-	0.5	0.04	0.04	7						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	08	08	45.5		1.3	0.50	327	4.4		
	E			53							
	S			57.3		-1.6					
WEL	IP	08	08	52.4	U	1.3	1.28	81	4.3	3.7	4.7
	E		09	07							
	S			10.8		-0.1					
KAI	EP	08	08	57		2.2	1.62	230	4.0		
	IS		09	17.0		-0.5					
MNG	IP	08	09	00.5	U	1.0	2.01	65		3.8	
	E			13							
	S			26		0.3					
GPZ							2.21	188	4.4		
CNZ	IP	08	09	12.9	U	0.7	2.97	40		4.1	4.2
	E			16							
	E			24							
	S			49		1.0					
MJZ	EP	08	09	16		1.6	3.15	217		3.1	3.9
	E			24							
	S			51		-0.9					
KRP	P	08	09	27		0.7	4.04	29			
	E			35							
	S		10	11.5		-1.8					
	E			42							4.2
TUA	S	08	10	14		-1.0	4.11	50			
	E			20							
GNZ	E	08	09	38			4.74	55		3.7	4.4
	E		10	23							
	S			28.5		-1.6					
MSZ	P	08	09	39		0.7	4.94	228		3.3	3.9
	E			49							
	S		10	32.5		-2.3					
CIZ	S	08	11	48		-0.9	8.00	111			

FELT MOTUEKA MM IV.

	H	M	S									57/ 216
JUN 07	14	20	28.1	41.10S	173.50E	108 KM	SE	1.8		AVG	MAG	4.6
		+-	0.5	0.04	0.04	7						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IP		14	20	46.1	E	0.6	0.58	271	4.7		
	S				57		-1.8					
WEL	IP		14	20	50.5	USE	1.4	0.98	101	4.5	5.0	5.2
	E				52							
	S			21	05		-0.1					
MNG	IP		14	20	56.8	U	0.5	1.58	73			
	S			21	17		-0.5					
TNZ	ES		14	21	28		0.9	2.03	20			
KAI	E		14	21	06			2.11	227	4.3		
	E				08							
	E				15							
	S				30.5		1.5					
CNZ	P		14	21	08.8	U	1.1	2.47	40		5.0	5.0
	I				13.5							
	E				46							
	E			22	04							
KRP	IP		14	21	23.7	UNE	1.3	3.55	27			
	E				53							
	S			22	02.5		-1.2					
TUA	E		14	21	32			3.63	52		4.6	4.6
	E				54							
	E			22	26							
MJZ	EP		14	21	24		0.2	3.65	217		4.0	4.1
	E				29							
	E				39							
	E			22	00							
	S				07		0.8					
GNZ	P		14	21	28.5		-3.6	4.26	56		4.4	4.7
	E				44							
	E			22	15							
	S				21		-0.1					
	E				51							
AUC	S		14	22	23		-0.4	4.35	14			
	E				38							
ROX	E		14	22	00			5.33	214		4.0	4.0
	S				44		-3.2					
	E			23	08							
ONE	E(P)		14	21	51		4.0	5.36	8	4.9		
	E				59							
	E			22	09.5							
	S				46		-2.1					
	E			23	05							
MSZ	P		14	21	48		0.0	5.43	227		4.5	4.5
	S			22	50		0.2					
CIZ	P		14	22	21.8		0.5	7.87	115			
	E				25.5							
	S			23	44		-5.4*					

FELT WEST NELSON AND WANGANUI,MAX.MM IV.

	H	M	S									57/ 207
JUN 07	19	30	35.3	48.99S	163.44E	33 KM	SE	2.6		AVG	MAG	4.8
		+-	2.9	0.19	0.30	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WPZ	(PN)	19	31	36		-1.9	4.33	59		4.5	4.7
	E			32	29						
MSZ	(PN)	19	31	51.2		0.1	5.30	37		5.0	4.7
	E			32	13						
	ESN				50	0.5					
	E			33	01						
	S*				19	2.5					
ROX	(PN)	19	31	50		-1.4	5.33	51		4.7	4.9
	E			32	00						
	P*				08	0.2					
	ESN				51	0.9					
	E			33	05						
MJZ	(PN)	19	32	10		-3.6	6.97	47			

		E			18								
		EP*			27		-8.8*						
		SN		33	25		-4.4						
		E			44								
	WEL	EL	19	37	00			11.10	50				
	MNG	EPN	19	33	21		1.5	11.96	50				
		E			35	42							
		EL			37	00							
	CNZ	E	19	33	39			13.08	46				
		E			34	03							
	KRP	EPN	19	33	49		2.2	14.11	43				
		E			34	08							
		E				29							
	CIZ	EPN	19	33	57		3.2	14.66	77				

	H	M	S									57/ 211
JUN 07	20	19	13.0	49.00S	163.40E	33 KM	SE	ND		AV3	MA3	4.2
				R	R	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	(PN)	20	20	30.3		1.2*	5.32	37		4.7	4.1
	E			39							
	ESN		21	28		0.3*					
	E			34							
ROX	E(PN)	20	20	29		-0.4*	5.35	51		4.0	4.1
	E		21	23							
	E			41							
MJZ	(PN)	20	20	48		-3.6*	6.99	47			
	E		21	00							
	EP*			05		-8.9*					
	E		22	00							
	ESN			04		-3.6*					
MNG	EPN	20	22	01		3.5*	11.98	50			

	H	M	S									57/ 211
JUN 08	04	16	16.2	38.09S	176.29E	188 KM	SE	0.8		AV3	MA3	4.2
			+- 0.5	0.04	0.03	4						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	04	16	42.7	UW	0.0	0.62	285			
	S		17	03		-0.1					
TUA	P	04	16	45		0.2	0.98	137		4.1	4.1
	E		17	03							
	S			08		1.1					
GNZ	P	04	16	49		0.2	1.47	113		4.0	4.3
	E		17	04							
	E			11							
	S			14		-0.1					
ECZ	EP?	04	16	51		-1.4	1.83	78		4.7	4.3
	ES		17	20		-0.3					
MNG	IP	04	17	01.7		0.6	2.60	194			
	E			33							
	ES			36		0.2					
WEL	S	04	17	52		-0.9	3.40	200	4.2		4.2
COB	S	04	18	07		-0.6	4.06	221	4.2		
KAI	ES	04	18	47		-0.5	5.79	219			
MJZ	E(P)	04	18	02		0.2	7.35	215			
	S		19	20		-4.2*					
MSZ	E(P)	04	18	26		1.3	9.10	221			

	H	M	S									57/ 211
JUN 08	06	38	47.9	45.10S	167.56E	129 KM	SE	1.1		AV3	MA3	3.7
			+- 1.1	0.05	0.06	7						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP	06	39	08.2	U	1.1	0.50	31			
	S			21.8		0.1					
MNW	IP	06	39	08.5	U	0.2	0.69	176		4.3	3.9
	S			22.5		-1.5					
ROX	P	06	39	15.5	D	1.3	1.30	108		3.6	3.8

		IS			34.3		0.2						
	MJZ	P	06	39	27.1	DS	0.2	2.36	63			3.2	3.5
		E			56								
		S			56.8		0.4						
	KAI	ES	06	40	29		-1.2	3.79	49				
	MNG	EP	06	40	33		-0.8	7.34	55				

	H	M	S									57/ 211
JUN 08	06	53	09.1	44.99S	167.61E	61 KM	SE	0.4		AV3	MA3	3.3
			+- 0.4	0.01	0.02	3						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP	06	53	21.0	U	0.3	0.39	35			
	S			29.3		-0.1					
MNW	IP	06	53	25.3	D	0.3	0.79	179		3.5	3.7
	S			36.5		-0.4					
	E			38							
ROX	EP	06	53	32.0		0.2	1.30	112			3.2
	ES			49		0.2					
MJZ	EP?	06	53	45		-0.3	2.28	65			2.7
	E			47							
	E		54	10							
	S			12		-0.2					

	H	M	S									57/ 212
JUN 09	16	50	13.5	39.33S	177.84E	33 KM	SE	1.5		AV3	MA3	4.6
			+- 0.5	0.03	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	IPN	16	50	27.1	U	0.7	0.70	12		4.9	4.8
	SN			33.5		-2.3					
TUA	IPN	16	50	27.8	D	0.8	0.75	314		4.7	5.0
	E			31							
	SN			38		1.1					
ECZ	PN	16	50	41.0	D	0.5	1.73	19		4.6	4.2
	E			53							
	S*		51	05		-2.5					
CNZ	IPN	16	50	42.8	U	1.6	1.78	273		4.4	4.4
	IP*			50		4.6*					
	E			52.5							
	E		51	02							
	E			06							
MNG	IPN	16	50	47.8	U	0.6	2.22	234			
	ESN		51	14		1.3					
KRP	EPN	16	50	50		1.9	2.28	307			
	P*			55		1.1					
	E		51	02							
	E			13							
	E			24							
WEL	IPN	16	50	58.3	D	-0.4	3.05	229	4.4	4.6	4.5
	SN		51	33.5		0.5					
COB	SN	16	52	03		0.0	4.28	244	4.3		
KAI	SN	16	52	39		-1.1	5.82	235	4.4		
GPZ	SN	16	52	39		-1.7	5.85	220	4.8		
CIZ	SN	16	52	52		1.9	6.24	140			
	E			53.5							
MJZ	PN	16	51	54		-1.1	7.22	227			
	SN		53	11.5		-2.0					
MSZ	EPN	16	52	21.5		1.2	9.11	231			
	E			24							
	SN		53	56		-2.7					
MNW	E	16	52	37			9.91	226			
	SN		54	18		0.2					
	E			21.5							

FELT WAIROA MM IV.

	H	M	S									57/ 213
JUN 10	16	57	45.8	39.40S	178.87W	30 KM	SE	1.4		AV3	MA3	4.0
			+- 0.9	0.05	0.05	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	EPN	16	58	22		-1.8	2.54	286		3.8	3.9
		E			24							
		EP*			31		0.5					
		E			52							
		SN			55		2.3					
	TUA	EPN	16	58	32.5		0.2	3.15	279		4.1	4.1
		ESN		59	09		1.3					
	CNZ	PN	16	58	47.5		-1.0	4.34	271		4.0	3.8
		E			49.5							
		SN		59	38		1.5					
		E			42							
	MNG	PN	16	58	48.8		-2.0	4.51	252		3.6	3.9
		P*		59	04		-0.2					
		E			39.5							
		SN			41.5		0.8					
	KRP	PN	16	58	51		-1.3	4.62	287			
		E			59							
	CIZ	SN	16	59	51		1.5	4.87	160			4.9
	WEL	SN	16	59	57		-0.8	5.22	247	4.2		4.0
	COB	ESN	17	00	32		-0.1	6.64	253			
	MJZ	E	17	00	04.5			9.20	237			
		ESN		01	32		-1.2					
		E			37							
		E			44							

	H	M	S								57/ 214
JUN 12	12	25	14.3	40.25S	175.03E	12 KM	SE	1.9	AV3	MA3	4.0
		+-	0.4	0.02	0.03	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IPG		12	25		25.3		0.5	0.51	137	
		ISG					31.9		0.1			
	WEL	IP*		12	25		34.8	USE	1.3	1.06	191	3.8	4.8	4.6
		PG					35.5		-0.3			
		S*					48.5		0.8			
		SG					50.5		0.4			
	CNZ	IP*		12	25		34.8	D	0.3	1.12	21	
		S*					48		-1.6			
	TNZ	SG		12	25		56		2.1	1.17	334	
	TUA	EP*		12	25		52.5		-0.2	2.18	49		4.2	4.1
		EPG					57		-1.4			
		SG			26		36		8.1*			
	KRP	PN		12	25		52.5		0.5	2.35	10	
		EP*					57		1.4			
		S*			26		27		0.4			
		SG					32		-1.6			
	GNZ	EPN		12	25		57		-1.5	2.82	56		4.2	4.0
		P*			26		07		3.4			
		PG					11		-0.3			
		ESN					32		0.3			
		E			27		03					
	KAI	SN		12	26		51		1.9	3.55	229	
	GPZ	EPN		12	26		13		0.3	3.88	207	3.9		
		EP*					23		1.3					
		EPG					32		-0.7					
		E					53							
		SN					57		-0.0					
	ONE	ES*		12	27		23		-8.0*	4.49	353			
	MJZ	E(PN)		12	26		28		-0.5	5.05	221		3.3	3.5
		P*					38		-3.8					
		E					43							
		PG					51		-5.4					
		SN			27		24		-1.3					
	MSZ	E		12	26		56			6.87	228			
		SN			28		08		-0.7					
	CIZ	SN		12	28		11		-7.2*	7.26	123			
		E					18							

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	ESN		12	28		34		4.3	7.75	222	

FELT WANGANJI AND MANAWATU, MAX. HUNTERVILLE MM IV.

	H	M	S								57/ 215
JUN 13	08	39	09.0	37.47S	176.95E	12 KM	SE	1.2	AV3	MA3	4.2
		+-	0.4	0.02	0.02	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P*		08	39	30.6	U	-0.3	1.21	247		
		PG				32		-1.7				
		S*				47		-0.2				
		SG				52		1.9				
		E				57						
	ECZ	IPG		08	39	33.9	D	-1.2	1.29	101	5.1	4.7
		SG				55		2.5				
	TUA	P*		08	39	32.5	U	-0.7	1.35	173	4.8	4.5
		IPG				35		-1.4				
		S*				52		0.8				
		SG				55		0.4				
	GNZ	P*		08	39	34.0	U	-0.9	1.45	145	5.1	4.7
		E				35.5						
		PG				38.5		0.1				
		ESG				58		0.0				
	AUC	EPG		08	39	47		0.7	1.84	289		
		SN			40	01.5		-0.9				
	CNZ	P*		08	39	46.5		1.2	2.05	212	3.8	3.5
		PG				51.5		0.9				
		E				59						
		ESG			40	23		4.6*				
	ONE	E(P*)		08	39	55		-1.0	2.68	308	3.5	
		ESG			40	41		1.5				
	MNG	EPN		08	40	00.5		0.2	3.35	200	4.0	3.4
		P*				07		-0.5				
		PG				15		-1.8				
		SG			41	03		1.0				
	WEL	P*		08	40	21		-0.6	4.17	203	3.9	3.8	3.6
		EPG				30		-3.5*				
		E				35						
		E				48						
		S*			41	16		-0.2				

	H	M	S								57/ 216
JUN 13	12	02	04.9	37.32S	176.96E	12 KM	SE	1.7	AV3	MA3	3.7
		+-	1.0	0.05	0.03	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P*		12	02	29.8		1.9	1.28	241		
		PG				32		1.1				
		ESG				48		-0.2				
		E				56						
	ECZ	PG		12	02	32		0.4	1.32	107	4.5	4.1
		ESG				51		1.6				
		E				57						
	TUA	P*		12	02	31.7		0.1	1.50	174	3.9	3.9
		EPG				34		-1.2				
		S*				52		0.5				
		SG				59		3.6				
	GNZ	EP*		12	02	32		-0.8	1.57	148	4.4	4.3
		PG				34.5		-2.2				
		ESG				56.5		-1.4				
	AUC	E		12	02	49			1.80	284		
	CNZ	EP*?		12	02	42.5		-0.8	2.18	210	3.2	3.0
		E				46						
		EPG				50		0.9				
		ES*			03	11		-1.2				
	ONE	E		12	03	07			2.60	306	3.0	
		ESG				41		8.5*				
		E				47						

	MNG	E	12 03 01				3.49	199			3.3	2.9
		PG		13		-2.5						
		ESG		04 03		0.4						
	H M S											57/ 217
JUN 13	12 12 08.2		37.32S	177.00E	12 KM	SE 2.1		AVG	MAG			4.1
	+- 0.9		0.04	0.03	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P		W S	
	ECZ	PG	12 12 34.8		0.5	1.29	107		4.7		4.4	
		SG	54		2.3							
	KRP	P*	12 12 32		0.4	1.30	242					
		EPG	34		-0.7							
		E	42									
		ESG	51		-1.3							
	TUA	(P*)	12 12 33.8		-0.9	1.49	175		4.3		4.2	
		EPG	36		-2.3							
		S*	55		0.5							
		SG	13 01.5		3.1							
	GNZ	EP*	12 12 34.5		-1.2	1.55	149		4.7		4.6	
		PG	37		-2.5							
		ESG	59		-1.5							
	AUC	E(PG)	12 12 47		1.7	1.83	284					
		E	52									
	CNZ	EP*	12 12 48		1.2	2.19	211		3.6			
		E	59									
	ONE	EP*	12 12 55		0.8	2.62	305	3.4				
		E	13 09									
		ESG	41.5		4.8*							
		E	49									
	MNG	EPN	12 13 01.5		0.1	3.50	199		3.6		3.1	
		E	05									
		PG	15		-3.9							
		S*	54.5		-0.4							
		ESG	14 10		4.0							
	H M S											57/ 218
JUN 13	12 28 49.9		37.20S	176.96E	12 KM	SE 1.9		AVG	MAG			4.1
	+- 0.9		0.04	0.04	R							
			H M S	DIR	RES	DIST	AZ	W-A	W P		W S	
	KRP	P*	12 29 15.9		1.9	1.34	237					
		PG	18		0.8							
		E	26									
		E	41									
	ECZ	EPG	12 29 18		0.6	1.35	112		4.7		4.4	
		E	19.9									
		E	31									
		ESG	38		2.3							
	TUA	P*	12 29 17.5		-1.1	1.61	175		4.5		4.2	
		PG	20		-2.6							
		ES*	42.5		2.4							
		ESG	46		1.6							
	GNZ	EP*	12 29 18.5		-1.1	1.67	150		5.0		4.5	
		PG	20		-3.7							
		E	25									
		SG	46.5		0.2							
	AUC	E(PG)	12 29 26		0.0	1.78	280					
		E	33									
	CNZ	E(PG)	12 29 34		-2.2	2.29	209		3.7		3.1	
		E	41									
		ESG	30 08		0.9							
	ONE	E(PG)	12 29 42		0.9	2.53	303	3.2				
		E	49									
		ESG	30 25		9.7*							
	MNG	E	12 29 47			3.60	198		3.6			
		E	56									
		EPG	30 02		-0.8							

													57/ 219
	H M S												
JUN 13	13 01 36.0		44.93S	167.68E	102 KM	SE 1.3		AVG	MAG			4.5	
	+- 0.8		0.05	0.05	8								
			H M S	DIR	RES	DIST	AZ	W-A	W P		W S		
	MSZ	IP	13 01 51.9		0.7	0.31	33						
	MNW	IP	13 01 54.8	D	-0.5	0.85	183		4.6				
		S	02 07.5		-2.5								
	ROX	IP	13 02 01.6	D	1.3	1.28	116		4.9		5.1		
		E	15										
		IS	19.2		0.7								
		E	22										
	WPZ	P	13 02 08.3		0.3	1.91	155		4.5		4.6		
		E	14										
		S	31.5		-0.3								
		E	35										
	MJZ	IP	13 02 13.2	UN	1.2	2.21	66		3.9		4.4		
		E	27										
		S	40		1.3								
	KAI	ES	13 03 13		-0.1	3.62	50						
	GPZ	EP	13 02 35		1.7	3.77	73	4.9					
		E	03 14.5										
		ES	16		-0.9								
		E	19										
	COB	EP	13 02 55		0.4	5.34	46	4.1					
		S	03 55		-0.4								
	WEL	S	13 04 18		-1.9	6.34	57	4.5					
	MNG	EP	13 03 21		1.1	7.18	56						
		E	26										
		E	51										
		S	04 40		-0.4								
		E	49										
	CNZ	E	13 03 39			8.18	48						
		E	43.5										
		S	05 03		-2.1								
	KRP	EP	13 03 47		0.4	9.15	43						
		E	04 07										
		S	05 25		-3.6*								
		E	28										
	H M S												67/ 220
JUN 13	14 26 35.5		44.95S	166.97E	12 KM	SE 1.7		AVG	MAG			4.5	
	+- 1.0		0.03	0.06	R								
			H M S	DIR	RES	DIST	AZ	W-A	W P		W S		
	MSZ	IP*	14 26 49.6	D	0.6	0.73	68						
		S*	58.5		-0.5								
	MNW	IP*	14 26 52.6	U	-0.2	0.95	152		4.9				
		S*	27 04		-1.6								
	ROX	EPN	14 27 05.3		0.4	1.74	108		4.5		4.8		
		I	05.8										
		PG	10		-0.7								
		S*	27.5		-1.9								
	WPZ	PN	14 27 10.6		0.1	2.16	143		4.5		4.8		
		P*	15.5		2.0								
		SN	37.5		1.0								
	MJZ	IPN	14 27 18.7	DS	0.9	2.68	70		4.3		4.1		
		I	21.3										
		P*	25.5		3.1								
		SN	50		0.4								
		S*	28 00		2.3								
	KAI	EPG	14 27 56		-0.9	4.02	55						
		ESN	28 21		-0.8								
		S*	41		2.9								
		SG	45.5		-5.7*								
	GPZ	EPN	14 27 39.5		0.5	4.26	75	4.0					
		EP*	51		1.5								
		EPG	28 01		-0.6								

		SN			27	-0.4						
		SG			58	-1.0						
	COB	E		14	28 02		5.72	50				
		SN			29 01	-1.6						
		E			12							
	MNG	E		14	28 28		7.61	58				
		E			36							
		ESN			29 48	0.5						
		E			30 03							
	CNZ	E		14	28 45		8.58	51				
		P•			29 01	-2.4						
		ESN			30 19	8.3•						
		E			29							
	KRP	E		14	28 56		9.51	45				
		P•			29 16	-3.4						
		E			30 44							

	H	M	S									67/ 221
JUN 13	14	36	51.2	37.39S	177.04E	12 KM	SE	2.6	AVG	MAG		4.4
		+-	0.8	0.04	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	IPG	14	37	16.2	D	-0.2	1.24	105		5.1	4.8
	E			34							
	SG			36		2.9					
KRP	IP•	14	37	13.9	DNE	-0.7	1.30	245			
	PG			16		-1.7					
	E			20							
	E			24							
	ESG			39		3.7					
TUA	P•	14	37	15		-1.6	1.42	176		4.8	4.8
	PG			18		-2.0					
	ES•			37		1.5					
	SG			43.5		4.3					
GNZ	P•	14	37	16.0	D	-1.6	1.48	148		5.5	5.0
	EPG			18		-3.1					
	E			23							
	SG			44.5		3.4					
AUC	E(P•)	14	37	25		0.5	1.88	286			
	PG			31		1.7					
	E			36							
	E			51							
CNZ	P•	14	37	28		-1.2	2.15	212		4.1	3.6
	EPG			38		3.2					
	ESG		38	05		1.1					
ONE	EP•	14	37	37		-1.3	2.69	306	3.8		
	PG			46		0.4					
	SG		38	24		2.1					
MNG	EPN	14	37	42		-1.8	3.44	200		4.1	3.5
	P•			48		-3.3					
	PG			57		-3.9					
	ES•		38	34		-2.4					
	EL		39	00							
WEL	EP•	14	38	10		4.6	4.27	204	4.0	4.2	3.8
	PG			15		-2.6					
	E			22							
	EL		39	30							
COB	E	14	38	09			4.98	221			
	EPG			26		-5.9•					
MJZ	E	14	38	56			8.26	215			
	P•			39	12	-1.8					

	H	M	S									67/ 222
JUN 13	16	13	23.2	37.28S	176.96E	12 KM	SE	1.6	AVG	MAG		4.4
		+-	0.5	0.03	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P•	16	13	48.0	USW	1.5	1.30	240			
	EPG			49		-0.6					

		E			57							
		ESG		14	09	1.8						
		E			15							
	ECZ	EP•	16	13	49.5	2.6	1.33	109		5.3	4.9	
		IPG			50.9	0.8						
		ESG		14	09	1.0						
	TUA	P•	16	13	49.9	-0.6	1.53	174		5.0	4.9	
		IPG			52	-2.3						
		S•		14	10.5	-0.4						
		ESG			17	2.0						
	GNZ	P•	16	13	50.5	-1.1	1.60	149		5.3	5.0	
		E			52.5							
		PG			55	-0.6						
		ESG		14	15	-2.2						
	AUC	EPG	16	13	58	-1.5	1.80	283				
		I		14	08.5							
	CNZ	EP•	16	14	03	0.8	2.22	210		4.1	3.6	
		E			05							
		PG			11	2.9						
		ESG			46	8.0•						
	ONE	EP•	16	14	09	0.7	2.57	305	4.0			
		EPG			13	-2.3						
		SG		15	00	10.0•						
		E			03							
	MNG	EPN	16	14	16	-0.9	3.53	199		4.1	3.6	
		E			19							
		PG			33.5	-1.1						
		ESN			55	-2.5						
		EL		15	33							
	WEL	E	16	14	46		4.35	202	4.0	4.1	3.9	
		EPG			51	-0.1						
		ESN		15	18	0.7						
		ES•			35	-0.6						
		E		16	04							
	COB	EP•	16	14	51	0.7	5.03	220				
	MJZ	E	16	15	32		8.32	214				
		P•			48	1.3						

	H	M	S									67/ 223
JUN 14	08	22	05.2	34.21S	179.37E	345 KM	SE	1.4	AVG	MAG		4.7
		+-	1.0	0.07	0.10	7						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	E(P)	08	23	11		1.3	3.54	191		5.2	4.8
	I			12							
	S		24	01		0.7					
ONE	P	08	23	17.5		-1.0	4.40	248			
	E			38							
	E		24	10							
GNZ	P	08	23	18.3		-1.9	4.56	193		4.8	4.9
	S		24	18.5		-0.6					
	E			23							
AUC	P	08	23	21.5	D	1.0	4.58	233			
KRP	IP	08	23	23.4	U	0.1	4.84	219			
	E			24.5							
	S		24	24		-0.5					
	E			30							
TUA	EP	08	23	24		-0.2	4.93	201		4.7	4.5
	E			37							
	S		24	27.5		1.2					
CNZ	P	08	23	34.8	U	0.1	5.85	211		4.2	3.8
	E			39							
	E			57.5							
	S		24	48		3.0					
MNG	P	08	23	45.8		-3.6•	7.11	205			
	I			48.3							
	E		25	04							
	S			09		-2.3					

	WEL	P	08 23 58	-1.4	7.95	206	5.4		
		S	25 29	-0.4					
	COB	S	08 25 44	-0.4	8.65	216	4.9		
	KAI	ES	08 26 21	-1.2	10.39	215			
	MJZ	P	08 24 47	-0.6	11.96	213			
		S	26 57	0.8					
	ROX	EP	08 25 08	0.5	13.63	211			
	MSZ	P	08 25 07.0	-1.0	13.68	217			
		E	12						
		ES	27 34	0.4					
	MNW	EP	08 25 21	2.5	14.63	214			

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	H M S								
JUN 18	13 18 45.4	43.41S	171.45E	12 KM	SE 1.7		AVG MAG		3.6
	+- 0.4	0.03	0.02	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	P*	13 19 00		-1.6	0.88	358	3.1		
	ES*	15		1.4					
	SG	16.5		1.1					
GPZ	EP*	13 19 02.5		0.4	0.92	109	3.4		
	PG	04		-0.0					
	I	16.6							
	SG	17.5		1.1					
MJZ	IP*	13 19 02.0		-0.2	0.92	231		4.0	3.6
	PG	04		-0.1					
	S*	15		0.4					
	SG	19		2.5					
MSZ	PN	13 19 29.5		-0.4	2.84	242		4.2	3.7
	P*	33		-2.1					
	IPG	37.9		-5.0*					
	ESG	20 20		-1.2					
	E	13 19 45			3.25	50	3.6	3.5	3.3
WEL	SN	20 12		-0.8					
	EPN	13 19 39		-1.3	3.62	228		3.5	3.2
MNW	P*	51		2.6					
	E	20 28							
	PN	13 19 45		-1.8	4.10	49		3.5	3.4
MNG	P*	53		-3.6					
	E	20 00							
	S*	51.5		1.3					
	EPN	13 20 01		-0.8	5.22	38		3.7	
CNZ	E	04							
	EP*	18		2.3					
KRP	SN	13 21 27		0.8	6.30	31			

FELT LAKE COLERIDGE REGION MM IV.

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	H M S								
JUN 18	23 06 52.6	34.15S	179.96W	306 KM	SE 1.3		AVG MAG		4.8
	+- 1.1	0.08	0.14	10					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	23 07 56.5		-0.2	3.74	198		5.2	4.3
	ES	08 48		1.1					
GNZ	P	23 08 07.7		-0.5	4.77	199		4.6	4.1
	S	09 09		1.5					
ONE	EP	23 08 10		-0.1	4.94	249		4.5	4.2
TUA	P	23 08 14		0.9	5.20	206			
	E	28							
	S	09 16		-0.3					
KRP	P	23 08 13.5		-0.2	5.24	223			
	E	29							
CNZ	P	23 08 24.9		-0.1	6.20	214			
	E	09 43							
MNG	P	23 08 37.5		-2.2	7.41	208			
	E	09 00							
	E	55							
	S	10 01.5		-2.3					
WEL	P	23 08 49.2		-0.9	8.26	209	4.9		

		S	10 22	-0.5					
	COB	ES	23 10 40	0.5	9.03	218			
	CIZ	E	23 09 26		10.14	166			
		E	11 15						
		E	21						
	MJZ	EP	23 09 40.5	0.6	12.31	214			
		S	11 53	0.7					
	MSZ	P	23 10 03	2.1	14.06	218			
		ES	12 35	4.3*					

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	H M S								
JUN 19	15 51 57.2	36.43S	178.30E	246 KM	SE 1.2		AVG MAG		3.7
	+- 1.5	0.05	0.12	11					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	15 52 34.5		0.6	1.28	171		4.3	4.0
	E	55							
	E	59							
	S	53 02		-0.1					
GNZ	P	15 52 42.2		0.5	2.22	186		4.4	3.9
	E	53 11							
	S	16		-0.3					
	E	18							
TUA	EP?	15 52 43		-2.0	2.54	201		4.0	4.1
	S	53 23		0.8					
KRP	P	15 52 47		0.7	2.66	235			
ONE	E(P)	15 52 52.5		-0.2	3.25	280			
	E	59							
CNZ	E(P)	15 52 52.5		-3.3*	3.52	217		3.1	2.8
	E	58							
	E	53 04							
	E	57							
MNG	P	15 53 10.5		0.4	4.73	207		3.3	3.3
	E	22							
	S	54 05		-1.9					
WEL	E	15 54 23			5.58	209	4.4		3.3
	S	27		1.3					
GPZ	ES	15 55 31		0.2	8.45	209			

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	H M S								
JUN 21	19 49 34.4	37.92S	177.15E	138 KM	SE 1.7		AVG MAG		4.4
	+- 0.8	0.04	0.04	7					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	P	19 49 58.3		1.1	0.89	180		4.7	4.9
	E	50 08							
	S	15		0.3					
GNZ	P	19 49 59		0.8	0.99	137		4.7	4.9
	I	50 02.5							
	S	16		-0.4					
ECZ	P	19 49 59.1	U	-0.4	1.13	79		5.1	4.9
	E	50 01.5							
	S	18		-0.7					
	E	21							
KRP	IP	19 50 01.0	DNE	-0.1	1.28	269			
	S	18.5		-3.0					
CNZ	IP	19 50 09.9	U	3.2	1.79	224		4.1	4.0
	I	10.4							
	ES	38		6.5*					
	E	44							
AUC	IP	19 50 11.5	U	0.2	2.17	299			
MNG	P	19 50 22.8		0.7	2.99	205		4.0	
	I	24.2							
	E	52							
	S	59		0.6					
WEL	EP	19 50 34.5		1.4	3.83	208	4.4	3.9	4.5
	S	51 19		0.9					
	E	39							
COB	S	19 51 39		1.4	4.66	226	4.0		

	KAI	ES	19	52	19	0.3	6.36	222		
	GPZ	S	19	52	24	-3.0	6.71	209	4.3	
		E			43					
	CIZ	E	19	51	33		7.67	144		
		S		52	49	-1.4				
	MJZ	EP	19	51	28	0.5	7.89	218		
		S		52	52	-3.7				
	MSZ	E(P)	19	51	52	0.7	9.68	223		
		E		52	54					
		S		53	39	0.6				

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H M S								
JUN 22	03 58 44.2	46.49S	166.51E	12 KM	SE 2.6	AVG MAG	4.2	
	+- 1.9	0.07	0.09	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP*	03 59 04.0		0.9	1.04	48			
WPZ	(PG)	03 59 16.5		-0.5	1.62	97		4.2	4.5
	S*	36		1.5					
MSZ	PN	03 59 17.0		-0.9	2.07	29		4.3	4.3
	E	22							
	PG	24		-2.0					
	S*	48		0.1					
	SG	52.5		-1.4					
ROX	E	03 59 22			2.20	64		4.5	4.2
	P*	23.5		0.6					
	PG	27		-1.7					
	S*	49		-2.9					
	SG	56		-2.4					
MJZ	EPN	03 59 40.5		-0.3	3.75	50		4.0	3.7
	P*	49		-0.4					
	EPG	57		-3.0					
	ESN	04 00 27		3.2					
	SG	49		-1.5					
GPZ	P*	04 00 10		-3.6	5.16	59	3.9		
	PG	29		0.5					
	E	01 08							
	S*	24		3.1					
KAI	ESN	04 01 06		5.2	5.29	43	3.9		
	E	13							
COB	ESN	04 01 45		2.6	7.03	42			
MNG	EPN?	04 00 46		-1.8	8.76	51			
	E	51							
	EP*	01 20		4.8					
	ESN	02 32		8.3*					

FELT PUYSEGUR POINT

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H M S								
JUN 22	19 05 40.2	37.43S	176.67E	368 KM	SE 0.9	AVG MAG	4.0	
	+- 0.8	0.06	0.08	6				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	EP	19 06 28		-0.2	1.03	241			
TUA	EP	19 06 30		-0.1	1.43	165		4.2	4.1
	S	07 08		-1.1					
	E	12							
GNZ	P	19 06 31		-0.1	1.61	139		3.8	4.1
	E	59							
	S	07 11		0.0					
	E	16							
CNZ	P	19 06 34.2	U	0.8	1.98	206		3.5	3.2
	S	07 16		1.0					
MNG	IP	19 06 44.5	U	0.3	3.32	196		4.1	4.3
	E	07 02							
	E	30.5							
	S	34		-0.4					
	E	37.5							
WEL	S	19 07 50		1.6	4.13	200	4.2		4.3
COB	ES	19 07 59		-1.2	4.76	219			

	GPZ	S	19	08	44	-0.7	6.97	205	4.5	
	MJZ	E(P)	19	07	37	0.7	8.07	214		
		S		09	08	0.3				
	MSZ	EP?	19	07	56	-0.7	9.80	220		
		E			59					

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H M S								
JUN 23	07 58 53.8	33.16S	178.81W	33 KM	SE 5.1	AVG MAG	5.0	
	+- 5.1	0.24	0.33	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	08 00 06		0.3	5.01	205		5.1	4.8
	S	01 09		8.0					
GNZ	P	08 00 18.5		-1.1	6.05	204			
	E	27							
	ES	01 31		5.1					
	E	02 09							
ONE	P	08 00 23		1.1	6.21	243			
AUC	P	08 00 30		5.2	6.43	233			
TUA	EP	08 00 25		-1.0	6.52	209			
	E	34							
	ES	01 42		4.9					
	E	02 08							
KRP	EP	08 00 27.5		0.1	6.62	222			
	E	01 36							
	E	50							
MNG	EP	08 00 52		-3.7	8.73	210			
	E	01 10							
	S	02 27		-3.1					
	E	03 05							
WEL	S	08 02 44		-6.5	9.59	210	5.1		
	EL	04 30							
CIZ	E	08 01 32			10.92	171			
	S	03 21		-0.8					
MJZ	S	08 04 17		-8.5	13.67	215			

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H M S								
JUN 23	23 41 52.8	35.53S	178.85E	309 KM	SE 2.8	AVG MAG	4.1	
	+- 3.7	0.16	0.31	26				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	23 42 42		-0.0	2.18	186		4.8	4.4
	S	43 18		-2.5					
TUA	E	23 43 41			3.55	202			4.3
	ES	47.5		3.7					
	E	59							
KRP	P	23 42 56.5		1.1	3.58	227			
ONE	P	23 42 54		-2.3	3.66	265			
CNZ	P	23 43 07.8		2.2	4.51	215		3.6	3.0
	S	44 05		2.4					
MNG	P	23 43 20.5		0.7	5.74	207		3.9	3.9
	E	44 20							
	S	24		-4.0					
WEL	S	23 44 45		-1.2	6.58	208	4.7		
MJZ	S	23 46 15		-0.1	10.63	215			

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H M S								
JUN 24	00 27 35.3	37.59S	177.34E	33 KM	SE 1.5	AVG MAG	3.5	
	+- 0.5	0.03	0.03	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN	00 27 52.5	D	0.7	0.97	96		4.5	4.1
	S*	28 08		1.1					
GNZ	PN	00 27 53.0	D	-1.7	1.18	153		3.7	3.8
	EP*	54.5		-2.4					
	E	59							
	ES*	28 07		-6.0*					
TUA	E	00 28 01			1.22	187		3.5	3.5
	E	14							
KRP	P*	00 28 02.2	D	0.5	1.46	256			

		S•		21	-0.4						
	CNZ	P•	00	28 15	1.9	2.13	221		3.1	3.0	
		S•		42	0.7						
	ONE	EP•	00	28 28	0.1	3.00	306	3.2			
		ES•		29 07	-0.4						
	MNG	PN	00	28 24	-0.4	3.35	205		3.1	3.2	
		P•		35	1.2						
		E		50							
		ESN		29 01	-1.0						
		S•		19	1.3						
	WEL	ESN	00	29 24	1.5	4.19	208				
	MJZ	SN	00	30 57	-2.7	8.24	217				

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	H	M	S										
JUN 24	15	49	32.1	37.64S	176.41E	251 KM	SE	0.6	AVG	MAG	3.9		
			+_ 0.6	0.03	0.03	4							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P		15	50	06		-0.2	0.75	247			
		S				32.5		-0.3					
	GNZ	P		15	50	12		0.2	1.62	129		4.0	4.2
		E				14							
		E				39							
		S				42		-0.4					
	ECZ	P		15	50	12		-0.4	1.69	93		3.9	4.3
		E				35							
		S				44		0.5					
	CNZ	P		15	50	13.5		1.0	1.70	203		3.1	2.9
		E				51							
	MNG	P		15	50	25.5		-0.3	3.06	193		4.0	4.1
		S			51	08		0.5					
	WEL	P		15	50	34.5		-0.4	3.86	199		3.9	4.1
		S			51	23		-0.6					
	COB	S		15	51	37		0.4	4.47	218	4.0		
	MJZ	S		15	52	48		-2.6•	7.78	214			

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	H	M	S										
JUN 25	01	03	55.2	37.75S	178.86E	12 KM	SE	2.5	AVG	MAG	4.3		
			+_ 1.1	0.05	0.06	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	IP•		01	04	01.7	D	1.1	0.26	282			
		IS•				09		4.5					
	GNZ	PN		01	04	16.2	U	-0.1	1.11	216		4.8	4.8
		E				26							
		ESG				35		2.2					
	TUA	EPN		01	04	24.5		0.3	1.71	231		4.6	
		P•				26		0.4					
		PG				32.5		2.6					
	KRP	PN		01	04	37		0.1	2.64	265			
		EP•				40		-1.4					
		EPG				46		-2.5					
		E			05	01							
	CNZ	PN		01	04	41.4	U	-0.1	2.98	240		4.0	
		EPG				55		-0.4					
		SN			05	18		1.5					
	AUC	PN		01	04	49.2	U	2.4	3.37	284			
		P•				55		1.0					
	MNG	PN		01	04	51.8	U	-1.9	3.89	221		4.1	
		P•			05	03		0.2					
		EL			06	34							
	ONE	EP•		01	05	04		-2.6	4.11	297	4.2		
		PG				13		-5.4					
		S•			06	03		2.6					
	WEL	PN		01	05	02		-3.3	4.74	221	4.6	3.7	4.3
		SN				56		-2.8					
	COB	ESN		01	06	23		-1.1	5.80	233			
	CIZ	PN		01	05	39		2.1	7.10	152			
		SN			06	57		1.8					

	KAI	ESN	01	07	04	0.8	7.44	228			
	MJZ	EPN	01	06	01	0.3	8.90	223			
		EP•			20	-8.6•					
		SN		07	34	-4.0					
	MSZ	PN	01	06	29	4.0	10.75	227			
		ESN		08	19	-2.4					
		E			22						

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	H	M	S										
JUN 25	01	04	30.9	37.74S	178.91E	12 KM	SE	2.8	AVG	MAG	4.5		
			+_ 1.3	0.06	0.06	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P•		01	04	36.5		-0.5	0.29	279			
		S•				44		2.7					
	GNZ	E		01	05	00.5			1.14	217		5.1	5.2
		ESG				11		1.5					
	TUA	PG		01	05	08.5		2.2	1.75	232		4.9	4.9
		I				12							
		SG				34		4.1					
	KRP	P•		01	05	16.5		-1.3	2.67	265			
	CNZ	E(PN)		01	05	16.5		-1.1	3.01	240		4.3	4.0
		PG				29		-2.9					
		SN				53		0.3					
	AUC	PN		01	05	25		2.0	3.41	284			
	MNG	PN		01	05	28		-1.8	3.92	222		4.3	4.2
		E			06	06							
		SN				14		-0.6					
		EL			07	13							
	ONE	P•		01	05	40		-2.9	4.14	297	4.1		
		S•			06	40		2.9					
	WEL	PN		01	05	38		-3.4	4.77	221	5.0	4.0	4.6
		SN			06	32		-3.3					
		SG			07	13		1.2					
		EL				23							
	COB	SN		01	06	58		-2.7	5.83	233	4.2		
	CIZ	(PN)		01	06	13		0.5	7.09	153			
		E				27							
		SN			07	35		4.3					
		E				41							
	KAI	ESN		01	07	42		2.3	7.47	228	4.4		
		E				49							
	MJZ	PN		01	06	36		-0.8	8.93	223			
		P•				55		-9.9•					
		SN			08	10		-4.4					
		E				35							
	ROX	EL		01	11	30			10.54	220			
	MSZ	PN		01	07	05.5		4.3	10.79	227			
		EP•				50		13.4•					
		SN			08	54		-3.9					
		E				58							
	MNW	ESN		01	09	19		1.4	11.63	223			

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	H	M	S										
JUN 25	01	09	45.3	37.71S	179.20E	12 KM	SE	1.2	AVG	MAG	3.8		
			+_ 1.2	0.05	0.06	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P•		01	09	55.5		0.2	0.52	272		4.6	4.5
		S•			10	03		0.4					
	GNZ	E(PN)		01	10	09.8		0.6	1.32	225		4.0	4.0
		P•				10.5		1.6					
		PG				16		4.0•					
		SG				30.5		0.6					
		E				38							
	TUA	P•		01	10	20.5		0.7	1.95	235		3.7	3.8
		E				38							
		S•				46		0.3					
		E			11	02.5							

	KRP	E(PG)	01 10 43		-1.2	2.91	265					
		E	54									
	MNG	PN	01 10 46		-0.7	4.10	224			3.2	3.8	
		SN	11 33		-0.4							
	MJZ	ESN	01 13 31		-2.2	9.12	224					
	H M S											67/ 237
JUN 25	07 02 22.9		45.32S	167.25E	95 KM	SE	1.2	AVG	MAG			4.3
	+- 1.3		0.04	0.08	8							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	MNW	IP	07 02 38.4		U	-0.2	0.53	151			4.6	4.5
		E	48.5									
		S	49.5			-1.1						
	MSZ	P	07 02 42.0			0.8	0.80	36			4.6	4.5
		S	55			-0.0						
	ROX	P	07 02 50.5			1.4	1.46	97			4.5	4.6
		S	03 09.5			0.9						
		I	10.5									
	WPZ	P	07 02 52.8			0.3	1.74	141			3.9	4.5
		S	03 13.5			-0.9						
	MJZ	IP	07 03 05.2		U	0.3	2.65	61			3.5	3.8
		E	14									
		S	37			0.8						
	KAI	ES	07 04 12			0.1	4.10	49				
		E	16									
	GPZ	S	07 04 10			-4.0*	4.19	69		4.0		
		E	15									
	COB	S	07 04 52			-2.4	5.83	45				
	H M S											67/ 238
JUN 25	09 03 23.1		36.93S	177.36E	12 KM	SE	2.3	AVG	MAG			4.5
	+- 1.5		0.07	0.04	R							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	ECZ	PG	09 03 47.5			-0.3	1.21	129			4.9	4.8
		E	49									
		ESG	04 07			2.8						
		E	10									
	KRP	IPG	09 03 58.2		DNE	-0.6	1.76	235				
		E	04 04									
		SG	21			-1.7						
		E	33									
	GNZ	IP*	09 03 54.5		D	-0.4	1.79	163			4.3	4.5
		ESN	04 14			-1.4						
		S*	17			-1.7						
	TUA	P*	09 03 57			0.5	1.89	185			4.6	4.5
		ESN	04 20.5			2.9						
		ES*	24			2.5						
		ESG	27			0.2						
	CNZ	P*	09 04 09.4		D	-0.8	2.69	212			4.3	4.8
		ESG	52			-1.7						
		E	55									
	MNG	PN	09 04 22.9		D	0.1	3.97	201			4.3	4.4
		P*	31			-1.1						
		E	35									
		SN	05 11			2.9						
		IS*	26			1.9						
	WEL	PN	09 04 34			0.0	4.80	204		4.7	4.3	4.7
		P*	44			-2.4						
		SN	05 27			-1.1						
		E	34									
		S*	46			-3.0						
	COB	ESN	09 05 47			2.0	5.50	220		4.2		
		E	52									
	KAI	SN	09 06 30			3.8	7.23	218		4.4		
		E	35									
	GPZ	SN	09 06 35.0			-1.5	7.66	207		4.3		
	CIZ	SN	09 06 50			-4.2	8.41	149				

	MJZ	E(PN)	09 05 29			1.8	8.79	215				
		SN	07 00			-3.4						
	MSZ	E	09 07 45				10.54	220				
		SN	48			3.7						
	H M S											67/ 239
JUN 25	14 37 01.6		38.98S	177.94E	33 KM	SE	1.7	AVG	MAG			3.9
	+- 0.5		0.03	0.03	R							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	GNZ	IP*	14 37 09.0		U	-0.8	0.34	11				
		ES*	16			0.4						
	TUA	IPN	14 37 14.3		U	0.7	0.64	285			4.5	4.7
		S*	24.5			0.9						
	ECZ	PN	14 37 23			-0.6	1.37	21			4.1	3.9
		ESN	38			-2.2						
		E	50									
	CNZ	PN	14 37 32			1.4	1.87	262			3.9	
		IP*	41			5.9*						
	KRP	E	14 37 38				2.16	298				
		EP*	44			4.1						
		E	56									
		ESN	38 00			0.7						
		ES*	06			-2.5						
	MNG	PN	14 37 39.5			0.3	2.50	228			3.5	3.5
		E	59									
		ISN	38 07.9			0.1						
	WEL	EPN	14 37 52			1.1	3.35	225		3.9	3.5	3.5
		E	38 16									
		SN	29			0.6						
	COB	ESN	14 38 58			1.2	4.52	241				
	KAI	SN	14 39 34			-0.8	6.09	232				
	GPZ	SN	14 39 35			-1.6	6.17	218		4.2		
	CIZ	E	14 38 37				6.46	142				
		E	39 43									
		SN	45			1.4						
	MJZ	SN	14 40 07			-1.8	7.52	226				
	MSZ	SN	14 40 51			-2.6	9.39	230				
	H M S											67/ 240
JUN 26	00 44 01.7		37.44S	177.82E	125 KM	SE	2.1	AVG	MAG			4.1
	+- 1.2		0.06	0.06	10							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	ECZ	IP	00 44 19.9		D	-1.4	0.63	113			5.1	4.7
		S	34.5			-1.9						
		E	39									
	GNZ	P	00 44 27.2		D	0.5	1.21	172			4.4	4.3
		E	32									
		S	46.5			0.8						
	TUA	P	00 44 32.5			3.0	1.46	201			4.3	4.2
		E	38									
		ES	52			1.4						
		I	56									
		E	45 02									
	KRP	IP	00 44 34.1		DE	-0.1	1.87	254				
		E	40									
		S	56.1			-2.8						
		E	58									
		E	45 13.5									
	AUC	P	00 44 43.0		U	0.7	2.50	283				
	CNZ	P	00 44 44.8		D	2.2	2.50	225			3.8	3.5
		E	45 20									
		I	27.5									
	ONE	EP	00 44 53			0.8	3.24	300		3.4		
		E	45 47									
	MNG	P	00 44 58.7		D	0.9	3.65	209			3.7	3.8
		S	45 43			2.4						
		E	54									

		E		57							
	WEL	S	00	46	00		-1.0	4.51	211	4.1	4.1
		E			29						
	COB	ES	00	46	23		1.2	5.36	226		
	GPZ	S	00	47	07		-3.8	7.38	211		
	CIZ	ES	00	47	20		-0.4	7.78	148		
	MJZ	EP	00	46	02		-2.3	8.59	218		
		S		47	35		-5.0*				
		E			39						

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	H	M	S								
JUN 27	17	32	38.7	37.85S	177.51E	33 KM	SE 1.7			AV3	MA3 3.9
		+-	0.5	0.03	0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	IPN	17	32	52.9	D	-0.5	0.83	79		5.1	4.5
	SN		33	05		0.8					
	S*			08		1.6					
GNZ	IPN	17	32	53.2	D	-0.9	0.89	153		3.9	4.8
	ES*		33	07.5		-0.5					
	E			10							
TUA	P*	17	32	57.5		-0.1	1.00	197		3.7	4.8
	ESN		33	10		1.8					
	S*			12		0.7					
	E			18							
KRP	IPN	17	33	03.1	DE	-0.3	1.57	267			
	E			08.5							
	SN			22		-0.0					
	E			24							
CNZ	PN	17	33	10.9		0.8	2.05	228		3.6	3.5
	SN			32.5		-1.2					
	S*			42.5		0.3					
AUC	PN	17	33	15	U	0.2	2.39	294			
MNG	PN	17	33	23.5		-2.1	3.18	209		3.4	3.7
	P*			29		-5.5*					
	E			44							
	SN		34	04		2.6					
	ES*			19		2.8					
ONE	PN	17	33	28		1.2	3.27	308			
WEL	EPN	17	33	37		-0.3	4.03	211	4.1	3.6	4.0
	P*			48		-1.0					
	SN		34	21		-1.2					
	S*			44		2.2					
COB	ESN	17	34	46		2.6	4.91	227			
	E			56							
GPZ	SN	17	35	26		-5.3*	6.91	211			
CIZ	SN	17	35	45		-2.1	7.57	146			
MJZ	EPN	17	34	31		-1.4	8.12	219			
	SN		35	57		-3.4					
MSZ	EPN	17	34	57		0.7	9.93	224			
	E		35	01							
	ESN		36	40		-3.3					
	E			47							

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	H	M	S								
JUN 28	14	34	03.7	47.23S	165.37E	33 KM	SE 2.1			AV3	MA3 5.9
		+-	1.3	0.09	0.08	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IPN	14	34	36.0	D	-0.2	2.13	48			
WPZ	IPN	14	34	39.9	D	-0.7	2.45	78		6.0	6.0
	SN		35	08		-0.6					
MSZ	PN	14	34	48.8		-1.0	3.12	36			
ROX	IPN	14	34	51.0	DSW	-0.6	3.25	59			
	I			55							
	SN		35	26		-2.1					
MJZ	IPN	14	35	10.6	DS	-2.5	4.83	50		5.9	5.7
	E			15							
	E			19							

		E		36	13						
	GPZ	PN	14	35	30		-1.9	6.22	58	6.2	
		E			39						
		IP*			55.5		4.1				
		E		36	48						
		S*		37	11		-1.5				
	KAI	EPN	14	35	32.5		-1.4	6.37	45	5.8	
		P*			53		-1.0				
		E		36	06						
		ESN			41		-2.4				
		E		37	00						
	WEL	PN	14	36	08.3	D	-0.6	8.99	52	6.1	
		SN		37	42		-4.0				
		E			50						
		ES*		38	38		2.4				
		E		39	12						
	MNG	PN	14	36	18.8	U	-1.4	9.84	51		
		E			25						
		ESN		38	05		-1.3				
		E			12						
	CNZ	PN	14	36	34		-0.6	10.93	46		
		E		38	41.5						
		E			50						
	WNZ	E	14	36	57			11.65	46		
	KRP	PN	14	36	47		-0.6	11.94	42		
		E			52						
		E		37	02						
		SN		38	55		-0.3				
		E		39	39						
	TUA	EPN	14	36	49		0.0	12.04	50		
		E		37	13						
		ESN		39	04.5		6.7*				
		E			17						
	AUC	PN	14	36	57		2.2	12.49	37		
		ESN		39	16		7.8*				
	GNZ	EPN	14	36	55		-1.5	12.62	52		
		E			57						
		ESN		39	14		2.8				
		E			18						
	CIZ	PN	14	37	05.0		2.8	13.07	82		
		I			06.0						
		E			17						
		P*			39		-9.7*				
		SN		39	24		2.5				
	ONE	EPN	14	37	08		3.3	13.27	34	5.9	
		SN		39	30		3.8				
		E			38						
	ECZ	PN	14	37	09		0.1	13.60	50		
		E			29						
		ESN		39	36		2.2				
		E			54						

FELT AWARUA MM IV AND INVERCARGILL

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	H	M	S								
JUN 29	21	37	06.2	38.58S	176.36E	168 KM	SE 2.3			AV3	MA3 3.9
		+-	1.8	0.09	0.11	13					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	P	21	37	32.0	U	1.5	0.66	110		4.1	4.2
	S			47.5		-1.8					
CNZ	P	21	37	34.0		2.0	0.89	226		3.6	3.4
	S			51		-0.9					
KRP	IP	21	37	32.0	DSE	-0.3	0.92	315			
GNZ	ES	21	37	56		-2.1	1.30	93			3.6
MNG	IP	21	37	47.2	U	2.7	2.14	198		4.5	3.8
	S		38	15		1.1					
WEL	P	21	37	56.6		2.0	2.97	204	3.7	4.2	3.6
	S		38	33		1.3					

	GPZ	S	21 39 36		-2.0	5.83	208	4.1				
	MJZ	P	21 38 49		1.9	6.99	218					
		S	40 04		-1.6							
	MSZ	E	21 39 17			8.77	223					
		ES	40 44		-3.9							
		E	47									

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	H	M	S						AV3	MA3	5.1	
JUN 29	22	48	00.0	31.00S	179.00W	33 KM	SE	ND				
			R	R	R	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	ECZ	P		22	49	53		14.6*	6.98	196		
		E			50	00						
		S			51	16.5		22.2*				
	GNZ	EP		22	49	58		5.9*	8.01	197		
		E			50	04						
		ES			51	33		14.1*				
		E				36						
	KRP	P		22	50	04		8.7*	8.25	212		
		E				12						
	TUA	(P)		22	50	06		8.5*	8.41	201		
		S			51	39.5		11.1*				
	MNG	EP		22	50	24		-2.4*	10.59	203		
		E				27.5						
		S			52	18		-2.1*				
	WEL	S		22	52	39		-0.8*	11.43	204	5.2	
	GPZ	S		22	53	35		-10.9*	14.30	205	5.0	

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	H	M	S						AV3	MA3	3.7	
JUL 01	02	55	49.8	41.20S	173.19E	111 KM	SE	1.9				
		+-	0.7	0.06	0.06	9						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	COB	EP		02	56	08		1.8	0.36	287	3.8	
		ES				18		-0.8				
	WEL	EP		02	56	15.5		1.9	1.19	95	3.9	3.7 4.3
		S				31.0		-0.6				
	MNG	IP		02	56	21.8	D	0.7	1.83	72		3.9 3.8
		ES				44.5		-0.2				
	KAI	E		02	56	28.5			1.88	224	3.5	
		ES				47		1.2				
	GPZ	ES		02	56	58		-3.2	2.53	189	3.9	
	CNZ	P		02	56	31.6		-1.1	2.69	43		4.1 3.8
		E				42.4						
		E			57	00						
		ES				06		1.0				
	MJZ	EP		02	56	46		3.3	3.44	215		3.4 3.3
		ES			57	22		-0.9				
	KRP	EP		02	56	47		0.3	3.74	30		3.7 3.5
		E				57						
		ES			57	28		-2.1				
	MSZ	EP		02	57	07		0.4	5.20	226		3.7 3.4
		ES			58	04		-1.8				

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	H	M	S						AV3	MA3	4.4	
JUL 01	16	12	50.5	38.29S	176.19E	12 KM	SE	2.0				
		+-	0.7	0.07	0.05	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP	IP*		16	13	01.6	UNW	-0.8	0.63	305		4.3 4.1
		ES*				11		-0.1				
	TUA	EP*		16	13	05		-2.3	0.92	125		4.3 4.1
		ES*				21		1.3				
	GNZ	EPN		16	13	13		-3.6	1.48	104		4.6 4.8
		ES*				39		2.2				
	AUC	IP*		16	13	23.2	D	0.5	1.82	322		5.3 4.8
		ES*				48		1.3				
	ECZ	EPN		16	13	23		0.2	1.96	73		4.7
	MNG	EPG		16	13	40		1.2	2.39	193		3.3

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	H	M	S						AV3	MA3	3.6	
JUL 01	17	49	34.7	38.44S	176.31E	12 KM	SE	1.3				
		+-	0.5	0.04	0.02	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WNZ	IP*		17	49	39.5	D	-0.5	0.25	221		
		ES*				44.5		0.7				
	TUA	IP*		17	49	47.7	U	-0.9	0.75	119		4.0 4.0
		ES*				58		-0.9				
	KRP	IP*		17	49	48.8	UNW	-0.6	0.80	310		3.3 2.9
		ES*				50 01		0.6				
	GNZ	EPG		17	50	01		-1.2	1.36	99		3.7 3.8
		ESG				23		2.4				
	MNG	E(P*)		17	50	15		0.5	2.26	196		3.6
	FELT BROADLANDS (41).MM IV											

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	H	M	S						AV3	MA3	4.1	
JUL 02	19	44	18.8	38.20S	176.21E	196 KM	SE	2.3				
		+-	2.3	0.11	0.10	14						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	KRP	IP		19	44	46.2	DNE	0.3	0.60	297		4.1 3.4
		ES			45	04		-2.9				
	TUA	EP		19	44	48.9		1.0	0.95	130		4.5 4.2
		ES			45	10		-0.4				
	CNZ	IP		19	44	51.2	D	2.1	1.13	207		4.0 3.3
		ES			45	16		3.3				
	GNZ	EP		19	44	53.2	D	1.0	1.49	108		4.5 4.2
		ES			45	16		-2.1				
	MNG	IP		19	45	04.6	U	2.0	2.48	193		4.7 4.2
		ES				36		-0.4				
	WEL	E(P)		19	45	11		-1.1	3.28	199	4.3	4.0 4.3
		E				44						
	GPZ	ES		19	46	55		-2.9	6.12	205	4.5	

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	H	M	S						AV3	MA3	4.1	
JUL 02	22	01	42.2	40.52S	174.23E	85 KM	SE	0.9				
		+-	0.7	0.03	0.03	13						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	WEL	IP		22	02	01.3	U	0.9	0.87	152	3.8	4.4 4.4
		ES				14		-0.1				
	MNG	IP		22	02	01.7	U	0.2	0.96	96		4.3 4.3
		ES				15		-0.9				
	COB	EP		22	02	06		0.6	1.27	243	4.2	
		ES				23		0.2				
	CNZ	IP		22	02	11.6	U	1.1	1.66	38		3.9 4.1
		E				24.5						
	KRP	EP		22	02	25.5		-0.4	2.78	22		3.7 4.0
		ES				58		-0.6				
	KAI	ES		22	03	01		-0.9	2.92	226	3.7	
	GPZ	ES		22	03	07		-6.3*	3.38	200	4.5	

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	H	M	S						AV3	MA3	4.9	
JUL 05	23	10	53.7	32.82S	179.42E	297 KM	SE	3.1				
		+-	3.8	0.19	0.22	32						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P W S
	ECZ	ES		23	13	11		0.2	4.91	188		5.3 4.6
		E				14.5						
	ONE	EP		23	12	17.5		4.5	5.12	233	4.4	
	GNZ	ES		23	13	30		-2.2	5.92	191		4.9
	KRP	EP		23	12	24		0.5	6.00	211		3.8
	MNG	E?		23	12	45.5			8.40	201		
		P				48.3		-4.6				
		E			14	17						
		ES				27		0.4				
	WEL	P		23	13	00.3		-2.8	9.23	202	5.7	
		ES			14	44.8		-0.3				
	COB	ES		23	15	00		1.6	9.83	211	5.3	

	CIZ	ES	23 15 40			3.2	11.55	165				
	GPZ	ES	23 15 48			-0.6	12.09	204	5.5			
	H M S											57/ 251
JUL 06	09 40 28.0		41.90S	174.16E	12 KM	SE	1.8	AV3	MA3			4.0
	+- 0.7		0.05	0.05	R							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	WEL	IP*	09 40 41.3		U	-0.9	0.77	37		4.1	4.7	4.7
		ES*	53			0.3						
	COB	EPN	09 40 51			-1.3	1.35	307		3.3		
		ESN	41 09			-1.2						
	MNG	PN	09 40 54.2		D	-1.7	1.63	38			4.5	4.3
		EP*	56.5			-0.4						
		ESN	41 14			-2.5						
	GPZ	EPN	09 41 01			-1.4	2.11	211		3.3		
		EPG	13			2.3						
		ESG	45			5.8*						
	KAI	EPG	09 41 10			-1.2	2.14	252		3.0		
		ES*	35			1.2						
	CNZ	EPN	09 41 14			0.7	2.90	22			4.3	4.4
		E	16.9									
		ES*	59			2.2						
	KRP	EPN	09 41 33			3.4	4.11	15			4.0	4.0
		EP*	40			0.5						
		E	42 24									
		E	37									
	H M S											57/ 252
JUL 06	21 01 24.3		40.50S	173.52E	201 KM	SE	1.3	AV3	MA3			3.7
	+- 0.9		0.06	0.06	8							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	COB	EP	21 01 54.5			1.0	0.83	225		3.5		
		ES	02 16			0.0						
	WEL	E	21 02 14				1.23	130		3.8		4.2
		ES	21			0.1						
	MNG	IP	21 02 00.4		D	1.8	1.50	95			4.1	4.0
		ES	24			-1.0						
	CNZ	P	21 02 02.4			-1.4	2.03	51			3.8	3.9
		ES	34			-0.1						
	KAI	ES	21 02 45			0.3	2.57	217		3.5		
	GPZ	ES	21 02 59			-0.1	3.26	191		4.0		
	MJZ	E	21 02 38				4.15	212			2.9	3.2
		ES	03 19			0.3						
	MSZ	EP	21 02 52			1.2	5.87	223			3.4	3.5
		ES	03 56			-1.9						
	COB DISTURBED BY ARTIFICIAL MOVEMENTS											
	H M S											57/ 253
JUL 07	11 51 36.9		39.20S	175.36E	167 KM	SE	1.6	AV3	MA3			3.9
	+- 2.0		0.10	0.09	13							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	CNZ	IP	11 51 59.6		D	0.3	0.15	91				
		ES	52 17			0.6						
	MNG	IP	11 52 09.1		U	1.8	1.42	176			4.4	3.5
		ES	30.5			-0.2						
	WEL	EP	11 52 16			1.0	2.14	192		3.7	3.7	3.9
		ES	44			-0.3						
	GNZ	ES	11 52 43			-1.5	2.15	76				3.9
	COB	ES	11 52 56			-1.8	2.76	226		3.9		
	H M S											57/ 254
JUL 08	06 18 05.7		33.17S	179.97E	326 KM	SE	3.2	AV3	MA3			4.7
	+- 3.3		0.19	0.20	30							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	ECZ	EP	06 19 21			0.1	4.66	194			5.0	4.7
		ES	20 17.5			-2.4						
	GNZ	EP	06 19 31			-1.6	5.68	196			4.5	4.5

		E	20 32									
		ES	40			-0.9						
	KRP	EP	06 19 38.5			2.6	5.96	216			3.8	3.7
		ES	20 52			5.3						
	CNZ	EP	06 19 48.5			0.3	7.00	209				
		ES	21 12			3.3						
	MNG	EP	06 20 01.5			-1.8	8.25	205				
		ES	21 30			-5.9						
	WEL	EP	06 20 12			-1.5	9.10	206		5.7		
		ES	21 53			-1.4						
	COB	ES	06 22 10			0.5	9.78	214		5.3		
	CIZ	E?	06 20 46				11.10	167				
		ES	22 42			3.8						
	GPZ	ES	06 22 57			-0.3	11.97	207		5.5		
	H M S											57/ 255
JUL 08	10 08 03.4		44.98S	167.68E	95 KM	SE	0.5	AV3	MA3			3.7
	+- 0.6		0.02	0.03	4							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	MSZ	IP	10 08 18.3		U	0.4	0.35	29				
		ES	29			0.0						
	MNW	IP	10 08 21.4		U	-0.2	0.80	183			4.2	4.0
		ES	35			-0.4						
	ROX	IP	10 08 27.3		U	0.3	1.26	114			3.6	3.7
		ES	45			0.4						
	MJZ	EP	10 08 39.5			0.1	2.23	65			3.3	3.4
		ES	09 05.5			-0.6						
	H M S											57/ 256
JUL 08	21 59 04.8		35.35S	179.56E	240 KM	SE	1.7	AV3	MA3			4.3
	+- 1.7		0.09	0.09	13							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	ECZ	EP	21 59 51.5			0.1	2.48	199			4.9	4.8
		ES	22 00 27			-0.7						
	GNZ	EP	22 00 03.5			0.6	3.51	200			4.3	4.4
		ES	48.5			0.4						
	KRP	EP	22 00 13			2.7	4.13	230			4.0	3.7
		ES	01 01			-0.2						
	ONE	EP	22 00 09			-2.8	4.26	263		4.3		
	CNZ	E	22 00 31				5.00	219			4.0	3.8
		E	01 41									
		E	47									
	MNG	P	22 00 37			1.6	6.17	210				
		E	52									
		E	01 57									
		E	02 16									
	WEL	ES	22 02 05.5			-0.2	7.02	211				
	CIZ	S	22 02 52			-1.0	9.09	162				
	GPZ	ES	22 03 11			-0.4	9.90	211		5.1		
	INTERPRETATION DOUBTFUL											
	H M S											57/ 257
JUL 09	02 46 13.9		37.43S	177.43E	170 KM	SE	0.7	AV3	MA3			4.1
	+- 0.7		0.04	0.03	5							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S
	ECZ	EP	02 46 39			-1.2	0.93	107			4.5	4.1
		E	47 02									
	GNZ	IP	02 46 44.1		U	0.7	1.30	159			4.2	4.8
		E	47 03									
		ES	06.5			0.4						
	KRP	IP	02 46 46.8		D	0.7	1.58	251			3.6	3.1
		ES	47 10.5			-0.5						
	CNZ	EP	02 46 55			0.8	2.31	219			3.9	3.3
		E	47 36									
	MNG	IP	02 47 09.4		D	-0.0	3.53	205			4.2	3.8
		ES	52			-0.2						
	WEL	EP	02 47 20			-0.3	4.37	207				

		ES		48 11		-0.5					
	COB	ES		02 48 30		0.1	5.16	223	4.4		
	GPZ	ES		02 49 15		-4.4*	7.24	209	4.7		

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	H	M	S								
JUL 10	07	23	30.4	45.81S	167.38E	77 KM	SE	1.8	AVG	MAG	4.7
			+- 1.3	0.06	0.08	9					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IP	07	23	42.1	U	0.0	0.17	81			
	ES			49		-1.8					
MSZ	IP	07	23	52.9	U	0.6	1.20	19		4.8	
WPZ	EP	07	23	54		-0.0	1.33	130		4.5	5.1
	ES			24 12		0.3					
MJZ	EP	07	24	15		0.2	2.85	51		4.5	4.3
	E			26.5							
	ES			51.5		3.2					
GPZ	E	07	24	44			4.30	62	4.7		
	ES			25 24		-0.2					
KAI	EP	07	24	39		3.1	4.38	43	4.4		
	E			51							
	E			58.5							
	ES			25 28		1.9					
COB	EP	07	25	02		2.1	6.12	41	4.8		
	ES			26 07		-2.3					
WEL	EP	07	25	12		-0.5	7.01	52	5.1		
	ES			26 30		-1.3					
MNG	EP	07	25	23		-1.1	7.86	52			
	ES			26 51.5		-0.8					
CNZ	EP	07	25	40		1.2	8.94	45			
	ES			27 19		0.3					
KRP	EP	07	25	51		-1.5	9.95	41			
	ES			27 40		-3.2					

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	H	M	S								
JUL 11	03	23	42.3	44.94S	166.97E	33 KM	SE	1.9	AVG	MAG	4.1
			+- 1.6	0.05	0.09	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IPN	03	23	53.8		-1.7	0.72	69		4.3	4.3
	ESN		24	05		-0.2					
MNW	IPN	03	23	59.1	U	0.4	0.96	152		4.1	4.3
	ES*		24	16		2.3					
ROX	EP*	03	24	12		-1.5	1.74	109		4.3	4.3
	ESN			32		2.1					
WPZ	EPN	03	24	16		0.7	2.17	143		4.1	4.1
	ESN			36.5		-3.7					
MJZ	EPN	03	24	22		-0.3	2.68	70		4.0	3.7
	EP*			30		0.5					
	ES*		25	05		0.3					
GPZ	EP*	03	24	55		-1.5	4.26	75		3.2	3.2
	ES*		25	52		-0.1					
MNG	EPN	03	25	32		2.9	7.60	58			
	E		27	04							

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	H	M	S								
JUL 11	05	12	22.2	38.84S	175.25E	12 KM	SE	2.2	AVG	MAG	4.0
			+- 0.8	0.03	0.07	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP*	05	12	27.7	D	-2.9	0.43	148			
	E			38						3.8	3.8
WNZ	ES*	05	12	44		-0.8	0.69	73			
	E			57						4.0	4.3
KRP	EP*	05	12	42		2.6	0.94	14			
	ESG			56		1.9				4.4	3.8
MNG	IP*	05	12	52.7	U	-1.2	1.79	174			
	ES*		13	17		-0.6					4.2
AUC	E	05	13	44.5			2.01	349			
GNZ	EP*	05	13	02		1.5	2.17	86		4.1	

	WEL	EP*	05	13	07	1.3	2.47	189	3.5	4.1	3.7
		ESG			47.5	1.8					
	ECZ	EPG?	05	13	19	-0.5	2.83	67		4.5	
	ONE	ES*	05	13	55	-3.2	3.14	347	3.6		

FELT AT SOUTHERN END OF LAKE TAUPO. MAX INTENSITY MM V

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	H	M	S								
JUL 11	06	22	56.0	38.95S	175.67E	12 KM	SE	ND	AVG	MAG	3.0
			R	R	R	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP*	06	23	00.9	U	-0.7*	0.27	201			
KRP	EP*	06	23	15		0.3*	1.03	354		3.0	3.2
	ES*			30		1.4*					
MNG	EP*	06	23	27		1.3*	1.67	185		3.1	2.8
	ES*			50		2.1*					

FELT TOKAANU (40)

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	H	M	S								
JUL 11	07	56	09.9	43.31S	170.99E	12 KM	SE	1.7	AVG	MAG	4.5
			+- 0.3	0.03	0.04	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MJZ	IP*	07	56	23.6	USW	-0.6	0.77	209		4.7	
GPZ	PN	07	56	32.7		-0.4	1.26	108	3.1		
	EP*			34.2		1.5					
	ESN			51		0.7					
ROX	EPN	07	56	48		-1.2	2.47	208		4.7	4.8
	EP*			54		0.7					
	EPG			57.5		-2.5					
	ESN		57	20.0		1.4					
	ES*			23		-2.9					
COB	PN	07	56	49.0		-1.8	2.58	31	4.3		
	EP*			55		-0.1					
	ESN		57	22.5		1.0					
	ES*			29		0.0					
MSZ	EPN	07	56	50.3		-0.8	2.60	237		4.5	4.9
	ESN		57	24		1.9					
MNW	EPN	07	57	02		-0.5	3.45	223		4.5	4.6
	EP*			08.5		-1.5					
	E			14							
	ESN			46		3.7					
	E			49							
WEL	EPN	07	57	02.4	U	-0.3	3.46	55	4.4	4.6	4.5
	EP*			11		0.8					
	ESN			43		0.5					
	ES*			53.5		-2.0					
WPZ	E(P*)	07	57	16.5		2.6	3.67	204		4.5	4.3
	ESN			47		-0.8					
	ESG		58	14		0.2					
MNG	PN	07	57	11.8		-2.2	4.30	53		4.6	4.3
	E			18.8							
	ESN		58	03		0.1					
	ES*			14.5		-6.3*					
CNZ	EPN	07	57	30		1.8	5.36	41		4.5	4.2
	ESN		58	31		2.7					
	E		59	02							
KRP	EPN	07	57	41.5		-0.7	6.40	34			
	ESN		58	52		-1.2					
ONE	E	07	58	06			7.97	20	5.0		
	ESN		59	25		-5.5*					

FELT ROSS (91).MM IV

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	H	M	S								
JUL 11	08	19	52.0	38.95S	175.67E	12 KM	SE	ND	AVG	MAG	3.1
			R	R	R	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP*	08	19	58.1	U	0.5*	0.27	201			
	ES*		20	03		1.3*					

	KRP	EP•	08	20	12		1.3•	1.03	354		3.2 3.1
		ES•			27		2.4•				
	MNG	EP•	08	20	24		2.3•	1.67	185		3.2 2.9
		ES•			47		3.1•				

FELT TOKAANJ (40)

	H	M	S								67/ 264
JUL 11	08	54	44.0	38.95S		175.75E	12 KM	SE	ND	AVG MAG	3.1
			R	R		R	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP•	08	54	49.3	D	-0.8•	0.30	212			
KRP	EP•	08	55	04		1.2•	1.04	351		3.1	3.2
	ES•			18		1.2•					
MNG	EP•	08	55	15	E	1.2•	1.68	187		3.3	2.9
	ES•			39		2.9•					

FELT TOKAANJ (40)

	H	M	S								67/ 265
JUL 11	13	16	18.7	41.46S		173.54E	12 KM	SE	2.3	AVG MAG	5.1
		+-	0.4	0.03		0.03	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	IP•	13	16	35.0	E	3.1	0.71	301	4.3		
	ES•			46		4.3					
WEL	IP•	13	16	39.9	UE	4.1	0.94	80	5.2	5.2	5.1
	ES•			51.5		3.0					
	ESN			54		2.6					
MNG	IPN	13	16	48.1	D	0.7	1.69	61		5.2	
GPZ	EPN	13	16	57		1.0	2.33	196	5.5		
	EPG		17	07		1.2					
	ESN			24		0.1					
TNZ	EP•	13	16	59		-1.1	2.36	16			
	ESN		17	22		-2.5					
CNZ	IPN	13	17	00.8	U	-0.8	2.73	35		5.0	
MJZ	IPN	13	17	10.8	DNE	0.3	3.39	221		4.8	4.9
	ESN			49		-0.7					
WNZ	E(P•)	13	17	18		-0.6	3.44	36		4.9	
KRP	IPN	13	17	15.3	DSW	-1.4	3.85	24		5.3	5.1
	ESN			57		-3.7					
GNZ	EPN	13	17	21		-3.7	4.44	52		4.9	5.4
	EP•			39.5		3.7					
	EPG			50		1.5					
	E		18	06							
	ESN			12		-3.0					
AUC	E?	13	17	33			4.69	12		6.1	6.1
	EP•			41		1.0					
	ESN		18	22		0.9					
	ES•			40		-1.3					
ROX	EPN	13	17	31		-1.9	5.06	216		4.7	4.9
	E			40							
	ESN		18	27		-2.8					
MSZ	EPN	13	17	32.5		-2.6	5.22	230		5.1	5.1
	E			35							
	ESN		18	36		2.2					
ECZ	EPN	13	17	34.5		-2.9	5.39	47		5.3	5.1
	E		18	27							
ONE	EPN	13	17	44		2.4	5.71	7	5.0		
	ESN		18	40		-5.5•					
MNW	EPN	13	17	45		-1.8	6.09	223			
	E			50							
	ESN		18	53		-1.6					
WPZ	ESN	13	18	58		0.8	6.20	211			
	E		19	06							
CIZ	EPN	13	18	09		0.7	7.70	112			
	E		19	27							
	ESN			32		-0.9					

FELT BOTH SIDES OF COOK STRAIT.MM IV

	H	M	S								67/ 266
JUL 12	05	05	22.7	42.36S		174.42E	12 KM	SE	1.8	AVG MAG	3.6
		+-	1.1	0.06		0.06	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	EP•	05	05	44		1.4	1.10	14	3.7	4.4	4.2
	ES•			57		-0.5					
COB	EPN	05	05	54		1.2	1.79	315	3.1		
	ESN		06	12.5		-2.4					
GPZ	S•	05	06	19		-1.4	1.87	224	3.0		
MNG	IP•	05	05	56.8	U	0.3	1.91	25		3.8	3.6
	ES•		06	23.5		1.7					
KAI	E	05	06	18			2.23	265	3.1		
	ESG			40		1.9					
CNZ	EP•	05	06	18		-1.7	3.27	16		3.7	3.6
	ES•		07	01		-1.6					
KRP	EP•	05	06	42		1.0	4.51	11		3.6	3.5
	ES•		07	46		6.1•					

	H	M	S								67/ 267
JUL 12	20	51	41.1	37.16S		177.31E	33 KM	SE	1.3	AVG MAG	3.7
		+-	1.4	0.09		0.04	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	S	20	52	12.5		-1.0	1.12	119			4.0
GNZ	EP	20	52	06		-0.1	1.58	160		4.3	4.3
	ES			26		1.1					
KRP	EP	20	52	08		1.6	1.61	241		3.1	3.0
	ES			24		-1.4					
	E			30							
TUA							1.65	184			4.4
CNZ	EP	20	52	19		0.8	2.47	214		3.4	3.1
	ES			46		-0.4					
MNG	EP	20	52	35		-0.6	3.74	202		3.4	

FELT WAIMANA (35) MM IV

	H	M	S								67/ 268
JUL 14	22	59	55.1	39.62S		179.13E	33 KM	SE	1.7	AVG MAG	4.1
		+-	1.0	0.06		0.05	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	EPN	23	00	14.5		-1.7	1.30	318		3.9	3.7
	E			23							
	E			45.5							
	E			50							
CNZ	IPN	23	00	37.7	D	0.8	2.81	277		4.3	3.5
	EP•			43		-1.5					
	E		01	02.5							
	ESN			08.5		-0.2					
	E			14.5							
MNG	EPN	23	00	38.5		-0.7	2.97	249		4.5	3.6
	ESN		01	14		1.3					
KRP	EPN	23	00	46		2.6	3.28	300		3.4	
WEL	ESN	23	01	32		1.0	3.73	242	4.4		4.2
CIZ	ESN	23	02	12		0.6	5.39	145			4.7
GPZ	ESN	23	02	32		-2.1	6.34	228	4.5		

	H	M	S								67/ 269
JUL 15	18	03	49.5	45.60S		166.24E	33 KM	SE	2.6	AVG MAG	4.4
		+-	2.3	0.08		0.12	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	IPN	18	04	06.2	D	-0.1	0.98	101		5.0	4.6
	ESN			17		-1.7					
MSZ	EPN	18	04	09		-4.4	1.51	53		4.7	
	I			10.0							
	E			25							
WPZ	EPN	18	04	24		2.4	2.10	121		4.2	4.1
	ES•			55		0.3					
ROX	EPN	18	04	22.8		0.3	2.16	88		4.6	4.6

		ESN			47		-0.4					
	MJZ	EPN		18	04	39	-0.6	3.41	63		4.3	4.1
		EP*				47	-2.2					
		ESN			05	16	-1.8					
		E				25						
	KAI	E		18	05	17		4.83	52	4.1		
		ESN				54	1.8					
	GPZ	E		18	05	08		4.95	70	4.5		
		ESN				52	-3.1					
		ES*			06	23	2.9					
	MNG	EPN		18	05	51	4.2	8.39	57			
		ESN			07	20	2.3					

57/ 271

	H	M	S									
JUL 16	08	55	05.5	45.14S		167.50E	82 KM	SE	1.4	AVG	MAG	4.8
	+-		1.4	0.04		0.07	11					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP		08	55	21.4	U 1.1	0.56	32		3.5	3.4
		ES				31	-0.5					
	MNW	IP		08	55	21.8	U 0.6	0.64	173		3.7	3.6
		ES				32	-1.0					
	ROX	IP		08	55	30.9	D 1.6	1.32	105		4.7	4.7
		E				43						
		ES				48.5	1.5					
	WPZ	EP		08	55	35	-0.2	1.79	149		4.5	4.6
		ES				56	-1.1					
	MJZ	EP		08	55	43	-0.8	2.41	62		3.4	3.9
		E				56 04						
		ES				11	-1.3					
	GPZ	E?		08	55	53		3.96	70	4.2		
		E				56 38						

57/ 272

	H	M	S									
JUL 17	15	42	16.0	45.14S		167.71E	119 KM	SE	1.1	AVG	MAG	3.9
	+-		1.1	0.04		0.05	7					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP		15	42	34.3	U 0.3	0.49	17			
		E				44						
		ES				48	0.3					
	MNW	IP		15	42	35.2	U 0.1	0.65	186		4.1	4.5
		E				44.5						
		S				48.3	-1.4					
	ROX	IP		15	42	41.7	U 1.5	1.18	107		3.8	3.7
		ES				59.5	0.9					
	WPZ	EP		15	42	47	0.6	1.72	153		4.1	4.1
		ES				43 09	-0.4					
	MJZ	EP		15	42	53	-0.5	2.28	61		3.1	3.8
		ES				43 22	0.2					
	GPZ	ES		15	43	57	-1.5	3.81	70	3.9		

57/ 273

	H	M	S									
JUL 17	20	32	08.8	36.38S		177.44E	244 KM	SE	1.1	AVG	MAG	4.8
	+-		1.5	0.09		0.11	15					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP		20	32	53	0.4	2.17	224		3.2	
	GNZ	EP		20	32	54	-0.0	2.31	169		4.1	4.5
		E				33 25						
		ES				29	-0.1					
	CNZ	EP?		20	33	04	0.5	3.19	207		3.4	3.3
		ES				45	-0.9					
	MNG	P		20	33	18	U -0.9	4.50	199		4.2	4.1
		E				25						
		E				34 08						
		ES				15	1.5					
	WEL	ES		20	34	31	-0.6	5.33	202	4.8		4.2

57/ 273

	H	M	S									
JUL 17	21	45	28.8	44.34S		167.63E	33 KM	SE	1.1	AVG	MAG	3.7
	+-		1.1	0.04		0.05	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP*		21	45	36.8	-0.9	0.39	149			
		ES*				43	-1.1					
	MNW	EP*		21	45	55	0.0	1.44	180		4.1	4.0
		ES*				46 16	1.7					
	ROX	EP*		21	45	39	0.5	1.65	134		3.7	3.9
		ES*				46 21.5	1.0					
	MJZ	EP*		21	46	06	0.4	2.07	81		3.1	3.2
		ES*				33	0.0					
	WPZ	EP*		21	46	12	-0.5	2.48	160		3.7	3.8
		ES*				44	-1.2					

INTERPRETATION DOUBTFUL

57/ 274

	H	M	S									
JUL 18	00	36	25.2	38.13S		176.40E	160 KM	SE	1.1	AVG	MAG	3.6
	+-		1.9	0.11		0.06	12					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P		00	36	49.3	D 0.2	0.71	286		3.4	2.9
		ES				37 07	-0.5					
	CNZ	P		00	36	54.5	U 0.9	1.27	212		3.2	
	GNZ	ES		00	37	17	-0.2	1.37	113			3.7
	MNG	P		00	37	09	U 0.5	2.59	196		4.4	3.5
		ES				42	0.3					
	WEL	P		00	37	17.4	-1.4	3.40	201		4.2	
		E				38 33.5						

NO MINUTE MARKS AT MNG

57/ 275

	H	M	S									
JUL 18	00	51	25.5	35.52S		178.87E	314 KM	SE	0.8	AVG	MAG	4.1
	+-		1.0	0.07		0.11	8					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	ES		00	52	54	-0.2	2.19	187			4.4
	GNZ	EP		00	52	24	-0.5	3.19	192		3.9	4.4
		ES				53 11	0.3					
	KRP	EP		00	52	29	0.4	3.60	227		3.7	
	CNZ	EP		00	52	39.7	1.0	4.53	215		3.7	3.5
		ES				53 35	-1.1					
	MNG	EP		00	52	53	0.2	5.75	207		4.8	4.1
		ES				54 02	0.7					
	WEL	P		00	53	02	-1.0	6.60	208			
		ES				54 20	0.6					
	GPZ	ES		00	55	22	-0.4	9.47	209	4.8		

NO MINUTE MARKS AT MNG

57/ 276

	H	M	S									
JUL 18	00	51	38.5	35.42S		178.73E	334 KM	SE	1.1	AVG	MAG	4.4
	+-		1.3	0.10		0.16	11					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	E		00	52	21.5		2.27	184		4.5	4.6
		ES				53 13	1.6					
	GNZ	EP		00	52	38	-1.5	3.27	190		4.1	4.7
		ES				53 26.5	-0.9					
	KRP	EP		00	52	43	0.3	3.58	225		4.1	
	CNZ	EP		00	52	53.7	0.9	4.55	213		4.0	3.6
		ES				53 50	-1.2					
	MNG	EP		00	53	07	0.1	5.79	205		5.1	4.2
		ES				54 16.5	0.2					
	WEL	P		00	53	16.6	-0.2	6.63	207			
		ES				54 34	-0.1					
	GPZ	ES		00	55	37	0.8	9.51	208	5.1		

NO MINUTE MARKS AT MNG

		H	M	S									67/ 277
JUL 18		16	58	04.3	38.28S	175.79E	225 KM	SE	1.1	AVG	MAG		3.9
		+-	1.2		0.06	0.07	9						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP		P		16	58	33.0	U	-1.2	0.41	331			
	CNZ		P		16	58	37.6		1.1	0.93	192		3.5	3.2
			ES			59	02		0.6					
	GNZ		EP		16	58	43		-0.1	1.79	102		4.0	4.0
			ES			59	13		-0.1					
	MNG		EP		16	58	49.5		1.0	2.34	186		4.1	4.1
			ES			59	21.5		-1.2					
	WEL		ES		16	59	38		0.3	3.10	194	4.1		4.1
	GPZ		ES		17	00	39		-0.4	5.91	203	4.5		

		H	M	S									67/ 278
JUL 18		17	12	26.9	44.92S	167.23E	12 KM	SE	1.1	AVG	MAG		3.7
		+-	1.0		0.03	0.05	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ		IP•		17	12	38.3	U	0.9	0.55	63		3.6	3.6
			ES•				44		-1.0					
	MNW		IP•		17	12	44.2	U	0.8	0.90	162		4.1	4.1
			ES•				55		-0.7					
	ROX		EPG		17	12	59		0.2	1.58	111		3.7	3.9
			ESG			13	21.5		1.4					
	WPZ		EP•		17	13	02		-1.5	2.08	147		4.1	4.1
			ESN				26		0.1					
	MJZ		EP•		17	13	11.5		0.8	2.50	69		3.2	3.2
			ES•				44		0.4					
	GPZ		ESG		17	14	43		-1.2	4.07	74	3.6		
	INTERPRETATION DOUBTFUL													

		H	M	S									67/ 279
JUL 19		11	26	48.2	41.70S	173.35E	33 KM	SE	2.3	AVG	MAG		3.9
		+-	0.6		0.05	0.05	R						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	COB		EP•		11	27	03.5		0.3	0.77	323	3.9		
			E				09							
			ES•				14.5		0.5					
	WEL		IP•		11	27	12.6	D	3.4	1.14	69	3.9	3.8	4.4
			E				31.5							
	KAI		EPN		11	27	15.5		1.2	1.67	240	4.2		
			EP•				19.5		1.4					
			ESN				34		0.1					
	MNG		EPN		11	27	22	D	4.0	1.94	57		4.1	4.1
			ES•				47.5		-0.9					
	CNZ		EPN		11	27	33.5		0.8	3.01	35		4.1	3.9
			E				36							
			EP•				44		3.0					
			E			28	01							
			ES•				17.5		-3.0					
	MJZ		EPN		11	27	35		0.8	3.12	222		3.7	3.7
			E				38							
			ESN			28	09		-0.3					
	KRP		EPN		11	27	48		-0.0	4.13	25		3.9	3.8
			EP•				58		-2.1					
			ESN			28	33		-0.9					
	GNZ		ESN		11	28	45		-2.8	4.70	51			4.1
	ROX		EPN		11	27	55		-1.9	4.78	217		3.6	3.9
			E			28	29							
			ESN				46		-3.6					
	NO MINUTE MARKS AT MNG													

		H	M	S									67/ 281
JUL 22		03	57	56.4	33.93S	177.89W	292 KM	SE	1.5	AVG	MAG		5.8
		+-	1.5		0.10	0.15	17						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP	03	59	10		-1.2	4.75	217		6.0	
	GNZ	EP	03	59	22		-1.1	5.75	214		5.7	5.8
		E			24							
		ES	04	00	34		2.9					
	ONE	EP?	03	59	34		0.1	6.64	252	5.7		
		E			40.8							
	KRP	EP	03	59	34		-0.2	6.66	231			
		ES	04	00	50		-0.9					
	AUC	EP	03	59	36		1.7	6.67	242			
	WNZ	E	03	59	55			6.75	224			
	CNZ	EP	03	59	44.5		0.5	7.46	223			
		E			55							
		ES	04	01	15		6.6•					
	MNG	EP	03	59	56		-1.1	8.52	216			
		E	04	00	30							
		ES		01	30		-1.9					
		E		02	20							
	WEL	EP	04	00	09		1.3	9.38	216	6.2		
		E			46.5							
		ES		01	50		-1.1					
	COB	EP?	04	00	19		-0.4	10.32	223	5.7		
		E			38							
		ES		02	11		-1.2					
	KAI	ES	04	02	51		1.1	12.02	221	5.6		
	GPZ	E	04	00	52			12.23	214			
		ES		02	56		1.4					

		H	M	S									67/ 281
JUL 22		06	40	47.5	34.08S	177.73W	309 KM	SE	2.2	AVG	MAG		5.4
		+-	2.2		0.17	0.22	20						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		EP		06	42	03		0.5	4.70	219		5.4	5.3
			ES			43	05		3.8					
	GNZ		EP		06	42	15		1.0	5.70	216		5.1	5.1
			ES			43	19		-2.9					
	KRP		EP		06	42	25		-0.7	6.67	233			
			ES			43	40		-2.7					
	ONE		EP		06	42	28		1.8	6.71	253	5.2		
	AUC		E?		06	42	36			6.71	243			
			E				44							
	CNZ		EP		06	42	32.5		-2.5	7.43	225			
			ES			44	01		1.6					
	MNG		EP		06	42	49		1.4	8.47	218			
			ES			44	21		-1.1					
	WEL		EP?		06	42	56		-2.1	9.33	217	6.1		
			E			43	03							
			ES			44	40		-1.1					
			E			45	42							
	COB		ES		06	45	02		-0.6	10.30	224	5.3		
	KAI		ES		06	45	42		2.2	11.98	222	5.5		
	GPZ		ES		06	45	45.5		1.5	12.17	215	5.6		

		H	M	S									67/ 282
JUL 22		18	06	43.9	36.76S	177.71E	256 KM	SE	2.4	AVG	MAG		4.1
		+-	2.4		0.15	0.14	19						
					H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ		EP		18	07	21		0.3	1.14	145		4.5	
	GNZ		IP		18	07	26.7	U	0.5	1.90	173		4.8	4.2
			E				49							
			S				59		-0.1					
			E			08	03							
	KRP		EP		18	07	28.5		0.6	2.09	236		3.4	3.4
			ES			08	00		-2.1					
	CNZ		EP		18	07	38		1.0	2.98	214		3.4	3.2
			E			08	00							
			ES				22		3.8					

	MNG	P	18 07 53	D	1.8	4.23	204		4.5	4.2
		ES	08 42		-1.6					
	WEL	EP	18 08 00.7		-0.5	5.07	206	4.8	4.1	4.3
		ES	58		-3.6					
	GPZ	ES	18 09 51		-14.9*	7.94	208	5.1		

NO MINUTE MARKS AT MNG

57/ 283

H M S — 39.94S 174.34E 140 KM SE 1.9 AVG MAG 4.7

JUL 22 23 15 43.5 +- 1.1 — 0.06 0.09 17

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP	23 16 09.8	D	1.1	1.11	128		4.6	4.8
	E	19							
CNZ	IP	23 16 10.9	U	1.3	1.19	52		4.9	
WEL	IP	23 16 13.6	UNW	2.0	1.38	166	4.4	4.6	5.0
	E	28							
	ES	33		0.1					
KRP	EP	23 16 22		0.8	2.22	25		4.0	4.3
	E	30.5							
	ES	48		-2.0					
GNZ	EP	23 16 33		-0.1	3.14	67		4.6	5.0
	E	17 05							
	ES	10		-1.0					
KAI	EP	23 16 39		2.5	3.40	220	4.9		
	ES	17 16		-1.0					
GPZ	EP	23 16 44		0.1	3.96	198	5.1		
	ES	17 27		-3.3					
ECZ	P	23 16 43.8		-0.4	3.98	57		4.9	4.8
	E	17 19							

NO MINUTE MARKS AT MNG

57/ 284

H M S — 38.52S 175.47E 197 KM SE 1.9 AVG MAG 4.4

JUL 23 03 39 35.8 +- 1.4 — 0.07 0.08 11

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	03 40 04.0	UNE	0.9	0.59	5		4.3	3.8
	ES	23		-1.2					
CNZ	IP	03 40 05.3	D	1.8	0.68	175		4.3	3.5
	ES	25.5		0.5					
GNZ	EP	03 40 15		0.5	2.00	94		4.7	4.5
	ES	43.5		-0.8					
MNG	P	03 40 18.5	U	3.0	2.10	180		4.5	4.7
	ES	46		-0.1					
ECZ	EP	03 40 21		0.2	2.56	72		4.7	4.4
	ES	53		-2.5					
WEL	EP	03 40 25.5		1.7	2.82	191	4.6	4.4	4.8
	ES	41 01		0.2					
KAI	ES	03 41 49		-1.4	5.06	216	4.4		
GPZ	ES	03 42 00		-2.8	5.60	202	4.7		

NO MINUTE MARKS AT MNG

57/ 285

H M S — 40.36S 172.40E 33 KM SE 1.4 AVG MAG 3.8

JUL 23 03 19 36.6 +- 0.9 — 0.04 0.06 R

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	ES	03 20 31		0.1	2.02	118	3.7		4.4
KAI	ES*	03 20 48		0.7	2.29	199	3.1		
MNG	P	03 20 13.5	D	1.3	2.36	97		4.1	4.1
	S	39.5		0.2					
CNZ	IP	03 20 14.6	D	-2.1	2.69	65		3.7	3.7
	S	47		-0.2					
GPZ	ES	03 21 02		-1.1	3.34	177	4.0		
KRP	EP*	03 20 38.5		1.7	3.44	46		3.6	3.8
	ES	21 05		-0.6					

NO MINUTE MARKS AT MNG

57/ 286

H M S — 39.09S 174.58E 12 KM SE 1.9 AVG MAG 3.7

JUL 24 10 18 44.3 +- 0.9 — 0.05 0.05 R

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP*	10 18 58.8	U	0.4	0.76	99		3.6	3.7
	ES*	19 08.5		-0.3					
KRP	PN	10 19 09.7		0.7	1.38	33		3.5	3.9
	ESN	27		-0.4					
MNG	EPN	10 19 10		-2.9	1.68	156		4.0	3.4
	ESN	33		-1.1					
WEL	EPN?	10 19 20		0.1	2.20	176	3.4	3.7	3.8
	EP*	25		1.9					
	ESN	50		3.6					
COB	ESN	10 19 52		-0.4	2.45	215	3.0		
	ES*	20 00		0.4					
GPZ	ESG	10 21 25		-2.1	4.83	197	4.3		

FELT WHANGAMOMONA (48)

57/ 287

H M S — 44.14S 167.51E 12 KM SE 2.4 AVG MAG 4.2

JUL 24 16 34 14.7 +- 2.0 — 0.08 0.11 R

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP*	16 34 24.3		-1.7	0.60	151			
ROX	EPN	16 34 45		-0.5	1.85	137		4.6	4.7
	ESN	35 06		-2.3					
MJZ	EPN	16 34 48		-1.4	2.13	87		3.8	3.9
	ESN	35 14		-1.1					
WPZ	EPN	16 34 59.5		2.4	2.69	160		4.4	4.3
	ESN	35 30		1.0					
GPZ	EPN	16 35 13		1.9	3.73	85	4.0		
	ESN	54		0.1					
	ES*	36 11		2.4					
COB	ESN	16 36 18		-4.4	4.92	53	4.0		
MNG	EPN	16 35 54		0.7	6.87	62			
	E	57							
	ESN	37 12		2.8					

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H M S — 39.37S 175.16E 122 KM SE 1.4 AVG MAG 4.6

JUL 25 04 42 44.4 +- 0.7 — 0.04 0.05 10

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	04 43 02.6	U	0.5	0.34	60			
MNG	P	04 43 10.5	U	0.6	1.27	169		4.6	
	ES	27		-2.2					
KRP	P	04 43 12.8		0.6	1.47	12		4.2	4.3
	ES	32		-1.3					
WEL	IP	04 43 18.8	UNW	1.2	1.94	189	4.4	4.9	4.7
	E	23							
	ES	44		1.3					
	E	44 07							
GNZ	P	04 43 23.2	U	0.3	2.34	73		4.6	4.7
	E	45.5							
	ES	53		0.9					
COB	EP	04 43 27		1.5	2.53	227	4.6		
	ES	57.5		0.9					
ECZ	EP	04 43 33		-0.5	3.14	59		4.7	4.5
	ES	44 10		-0.8					
KAI	E	04 43 52			4.24	221	4.6		
	ES	44 36		-1.3					
GPZ	EP	04 43 53		-1.7	4.72	203	4.7		
	ES	44 42		-6.7*					

NO MINUTE MARKS AT MNG. ERRORS UP TO 8 SEC POSSIBLE MEASURING FROM TIME SIGNALS BUT ESTIMATED ACCURACY OF THESE READINGS PLUS OR MINUS TWO SECONDS

	H	M	S									67/ 291
JUL 26	11	56	56.0	36.41S	178.39E	257 KM	SE 0.9		AVG	MAG		4.2
		+-	1.1	0.07	0.06	7						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		11	57	34		0.1	1.29	174		4.8	4.6
		ES			58	03		-0.2					
	GNZ	IP		11	57	42	D	0.3	2.25	187		5.0	4.7
		ES			58	20		2.8*					
		E			59	14							
	KRP	EP		11	57	46		-0.6	2.73	235		3.6	3.2
		ES			58	25		-1.0					
	CNZ	IP		11	57	56.5		0.6	3.58	218		3.7	3.4
		ES			58	44		1.6					
	MNG	EP		11	58	10		0.1	4.78	208		3.8	3.9
		ES			59	07		-0.6					
	WEL	ES		11	59	26		-0.3	5.63	209	4.7		4.8
	COB	ES		11	59	45		0.9	6.43	222	4.5		
	GPZ	ES		12	00	30		-1.0	8.51	209	5.0		

	H	M	S									67/ 291
JUL 27	01	25	26.9	38.19S	176.24E	213 KM	SE 1.8		AVG	MAG		3.9
		+-	1.7	0.09	0.07	11						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP		01	25	56		-0.1	0.62	295		3.5	3.8
		ES			26	16.5		-2.2					
	CNZ	P		01	26	00.8	D	1.6	1.15	208		3.6	3.3
		ES			27			2.8					
	GNZ	P		01	26	02.8	D	1.1	1.47	109		4.2	4.6
		E			23.5								
		ES			27			-1.7					
	ECZ	EP		01	26	05		-0.6	1.89	76		4.5	4.2
		ES			35			-0.4					
	MNG	P		01	26	14.5	U	2.6	2.50	193		4.3	3.9
		ES			48			1.2					
	WEL	ES		01	27	03		-0.3	3.30	200	3.8		3.8
	COB	ES		01	27	17		-0.7	3.97	222	3.9		
	KAI	E?		01	27	07			5.69	219	4.1		
		ES			56			-0.6					
	GPZ	ES		01	28	05		-1.9	6.14	205			

NO MINUTE MARKS AT MNG

	H	M	S									67/ 291
JUL 27	02	36	54.7	38.48S	175.88E	200 KM	SE 1.8		AVG	MAG		5.1
		+-	1.1	0.06	0.06	9						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		02	37	22.2	DSE	-0.2	0.62	334		5.0	4.5
		S				41.7		-2.1					
	CNZ	P		02	37	25.0		1.9	0.76	200		4.5	4.6
		ES				47		1.9					
	GNZ	IP		02	37	31.1	D	0.7	1.69	96		5.4	5.4
		ES				56		-2.0					
	MNG	P		02	37	40		4.8*	2.16	188		5.0	5.1
		E			38	02							
		ES				08.5		2.1					
	ECZ	P		02	37	36.0		-0.1	2.25	70		5.7	5.3
		ES			38	08		-0.1					
	WEL	P		02	37	45.2		1.1	2.93	197	5.0	5.0	5.0
		ES			38	21.5		-0.7					
	COB	EP		02	37	52.5		0.9	3.56	222	5.0		
		ES			38	35		-0.5					
	KAI	EP		02	38	16		2.6	5.28	219	4.9		
		ES			39	13		-1.5					
	GPZ	EP		02	38	19		-0.5	5.75	204	5.6		
		ES			39	22		-3.4					

NO MINUTE MARKS AT MNG

	H	M	S									67/ 292
JUL 27	14	34	00.8	44.46S	167.56E	12 KM	SE 2.2		AVG	MAG		4.2
		+-	1.9	0.06	0.11	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP*		14	34	06.3		-1.3	0.33	129			
	MNW	EP*		14	34	24.8		0.3	1.32	178		4.6	4.5
		ES*				43		0.8					
	ROX	EPN		14	34	28		-0.5	1.61	130		4.0	4.4
		ESN				47		-2.0					
	MJZ	EPN		14	34	36.8		1.2	2.14	78		4.1	4.2
		ESN				35 04		2.6					
	WPZ	ESN		14	35	09		1.8	2.38	158			4.0
	KAI	EP*		14	34	58		-2.1	3.40	57	4.2		
		EPG				35 07		-2.7					
		ESG				49		-6.6*					
	GPZ	EP*		14	35	04		-2.0	3.74	80	4.1		
		EPG				16		-0.5					
		ES*				55		0.0					
	COB	ESN		14	36	17		4.3	5.09	50	4.0		

	H	M	S									67/ 293
JUL 27	17	15	52.2	45.12S	167.68E	120 KM	SE 1.6		AVG	MAG		3.6
		+-	1.8	0.07	0.08	12						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP		17	16	10.9	U	0.6	0.48	21			
		ES				24		-0.1					
	MNW	IP		17	16	11.7	D	0.1	0.66	183		3.3	4.4
		ES				25		-1.4					
	ROX	EP		17	16	18.5		1.6	1.21	108		3.3	3.6
		E				20							
		ES				37		1.4					
	MJZ	EP		17	16	29		-1.0	2.29	61		3.1	3.7
		ES				58		-0.5					
	KAI	ES		17	17	34.5		1.5	3.74	47	3.9		
	GPZ	ES		17	17	33		-2.2	3.83	70	3.9		

	H	M	S									67/ 294
JUL 27	19	47	29.1	35.71S	176.78E	12 KM	SE 1.0		AVG	MAG		4.1
		+-	1.4	0.09	0.08	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ONE								1.97	267	3.6		
	KRP	EPN		19	48	08.7		0.9	2.42	204		4.4	4.4
		EPG				17		-1.2					
		E				28							
		ESN				37		0.4					
		ES*				43.5		-0.1					
	ECZ	EPN		19	48	08		0.1	2.43	145		4.7	
	GNZ	EP*		19	48	23		-0.0	3.09	162		4.2	
	CNZ	EPN		19	48	25		1.0	3.62	195		3.9	3.7
		ESN				49 06		0.5					
	MNG	EPN		19	48	41		-1.7	5.00	191		3.6	
		EPG				49 06		-4.3*					

INTERPRETATION DOUBTFUL

	H	M	S									67/ 295
JUL 28	02	49	56.1	44.48S	167.55E	12 KM	SE 1.5		AVG	MAG		4.3
		+-	1.1	0.04	0.07	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP*		02	50	01.0		-1.8	0.33	127			
	MNW	PN		02	50	19.7		-0.1	1.30	178		4.8	4.7
		ESN				38		0.6					
	ROX	EPN		02	50	23.5		-0.2	1.60	129		4.5	5.0
		E				42							
		ESN				43.5		-0.6					
	MJZ	EPN		02	50	31		-0.1	2.15	78		4.6	4.5
		ESN				59		2.0					

	WPZ	EPN	02 50 32		-2.0	2.37	158			4.2	4.4
		ESN	51 05		2.8						
	KAI	E	02 50 52			3.42	57			3.6	3.7
		E	51 00								
		ES*	41		0.5						
	GPZ	EPN	02 50 52		-0.8	3.75	80			3.3	3.5
		ES*	51 49		-1.5						
	COB	EPN	02 51 11.5		0.5	5.10	50	4.5			
		ESN	52 09		0.6						

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	H	M	S								
JUL 28	19	17	37.9	38.20S	176.37E	220 KM	SE	1.9	AV3	MAG	4.3
	+-		1.7	0.11	0.10	14					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP	19	18	06.4	U	-2.0	0.71	292		4.4	
	CNZ	EP	19	18	12.3		1.1	1.19	212		3.6	3.6
		ES			37		-0.1					
	GNZ	EP	19	18	14		1.4	1.37	109		3.9	4.2
		ES			40		0.4					
	ECZ	EP	19	18	14		-2.3	1.79	74		4.4	4.5
		E			53							
	MNG	P	19	18	26		2.4	2.51	196		4.9	4.6
		ES			59		0.0					
	WEL	EP	19	18	34		1.1	3.32	201	4.2	4.2	4.4
		ES		19	14		-1.5					
	COB	ES	19	19	32		1.5	4.03	223	4.2		
	GPZ	ES	19	20	17		-1.9	6.17	206	4.7		

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	H	M	S								
JUL 29	05	37	07.1	39.00S	177.96E	12 KM	SE	1.6	AV3	MAG	4.0
	+-		0.8	0.04	0.05	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IP*	05	37	16.0	U	1.7	0.36	7			
		E			24							
	ECZ	EPN	05	37	31		-0.8	1.38	20		4.6	4.2
		E			54							
	CNZ	EPN	05	37	39.5	U	1.0	1.89	263		4.5	4.0
		ESG		38	12		1.0					
	KRP	EPN	05	37	41		-1.5	2.19	299		3.6	3.3
		EP*			45		-0.6					
		E			57							
		ES*		38	14		-0.5					
	MNG	EP*	05	37	50		-1.1	2.51	229		3.8	3.7
		E		38	03							
		ES*			23.5		-0.6					
	WEL	EPG	05	38	17.5		2.6	3.35	226	4.1	3.9	4.0
		ESN			39		1.9					
	COB	E	05	39	16			4.52	241	3.9		
	KAI	ESN	05	39	42		-1.2	6.10	233	4.4		
	GPZ	ESN	05	39	43		-1.9	6.17	219	4.5		

INTERPRETATION DOUBTFUL

57/ 298

	H	M	S								
JUL 29	18	45	16.4	38.32S	179.44W	12 KM	SE	2.2	AV3	MAG	4.2
	+-		1.8	0.10	0.10	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EPN	18	45	48		2.6	1.71	291		5.1	4.9
		ESN		46	08		1.2					
	GNZ	EPN	18	45	49		-0.5	2.02	260		4.7	5.1
		E		46	01							
		ESG			23		-1.5					
	KRP	EPN	18	46	13		-3.1	3.98	274		3.7	
		E			19.5							
	CNZ	EPN	18	46	16.5		-0.1	4.02	256		3.7	3.6
		ESN		47	02		-0.4					
	MNG	EPN	18	46	24.5		0.6	4.55	238		3.5	3.4
		EPG			46		-2.4					

		ES*	47 38		3.2						
	WEL	EPN	18 46 35		0.4	5.36	235	4.3	3.5		
		E	47 26								

INTERPRETATION DOUBTFUL

57/ 299

	H	M	S								
JUL 29	19	07	27.2	38.64S	175.52E	205 KM	SE	1.7	AV3	MAG	3.9
	+-		1.6	0.08	0.09	12					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP	19	07	55.8	D	0.6	0.56	178		4.2	3.3
		ES		08	16.5		-0.4					
	KRP	P	19	07	55.0	DW	-0.9	0.71	1		3.6	
	GNZ	EP	19	08	05.5		-0.4	1.96	91		3.8	3.8
		E			29							
		ES			35		-0.8					
	MNG	P	19	08	09.5	U	3.3	1.98	181		4.1	3.8
		ES			37		0.8					
	WEL	EP	19	08	14.9		0.6	2.71	192	4.0	4.4	4.0
		ES			50		-0.7					
	COB	ES	19	09	02		0.1	3.26	220	3.7		
	GPZ	ES	19	09	50		-2.2	5.50	202	4.6		

NO MINUTE MARKS AT MNG

57/ 300

	H	M	S								
JUL 30	01	01	17.1	33.38S	178.96W	296 KM	SE	1.8	AV3	MAG	5.2
	+-		2.0	0.11	0.11	17					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P	01	02	31.7		-0.4	4.76	205		5.5	5.0
		ES		03	29		-1.9					
	GNZ	EP	01	02	44		-0.3	5.79	204		5.1	5.0
		E		03	05							
		ES			56		3.2					
	KRP	EP	01	02	53		1.6	6.37	223			
		E		03	12							
		E		04	14							
	MNG	EP	01	03	15		-2.3	8.48	210			
		ES		04	50		-1.8					
		E		05	34							
	WEL	EP	01	03	29		1.2	9.34	211	5.6		
		ES		05	10		-0.8					
	COB	ES	01	05	30		1.1	10.15	218	5.0		
	CIZ	E	01	03	53			10.72	171			
		ES		05	42		0.3					
	KAI	ES	01	06	07		-0.3	11.87	217	5.0		
	GPZ	ES	01	06	15		0.3	12.21	210			
		E			22							

NO MINUTE MARKS AT MNG

57/ 301

	H	M	S								
JUL 30	10	47	52.2	42.92S	173.20E	33 KM	SE	1.4	AV3	MAG	2.7
	+-		0.6	0.05	0.05	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GPZ	EPN	10	48	07		-0.6	0.88	207	2.6		
		ESN			19		0.1					
	KAI	E?	10	48	03			1.38	286	2.6		
		ESN			31		-0.0					
	MNG	E(P*)	10	48	44		1.5	2.86	37		2.7	2.8
		ESN		49	06		-1.0					

FELT CHEVIOT (96) MM IV

57/ 302

	H	M	S								
JUL 30	19	10	50.2	33.91S	178.36W	267 KM	SE	2.5	AV3	MAG	4.9
	+-		2.8	0.15	0.15	25					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP	19	12	02		0.6	4.53	213		4.9	4.8
		ES			59		1.9					
	GNZ	EP	19	12	12		-1.7	5.55	211		4.7	4.4

		ES		13 17		-2.1				
	KRP	EP		19 12 24		0.3	6.36	229		
	CNZ	EP		19 12 36		1.8	7.20	221		
		ES		13 59		3.3				
	MNG	EP		19 12 46		-2.0	8.30	214		
		ES		14 18		-2.4				
	WEL	ES		19 14 36		-3.8	9.16	215	5.5	
	CIZ	E		19 13 19			10.13	173		
		ES		15 03		1.3				
	KAI	ES		19 15 41		2.2	11.77	220	5.0	
	GPZ	ES		19 15 45		0.6	12.02	213	5.3	

NO MINUTE MARKS AT MNG

57/ 303

	H	M	S									
JUL 30	20	45	10.2	38.48S	179.15E	33 KM	SE	1.7	AV3	MA3	4.0	
			+- 1.4	0.06	0.07	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	IPN	20	45	26.9		1.1	0.90	259		4.5	4.6
		ESN			39		1.7					
	ECZ	EPN	20	45	28		1.9	0.92	328		4.7	4.5
		ES*			42							
	KRP	EPN	20	45	52		-1.3	2.90	280		3.5	3.3
		EP*			59		-2.2					
		ESN		46	25		-1.0					
	CNZ	EP*	20	46	01	U	-0.2	2.91	255		3.5	3.2
		ES*			41		1.6					
	MNG	EPN	20	46	02.5		0.4	3.55	232			
		EP*			10		-2.2					
		ES*			59		0.3					

NO MINUTE MARKS AT MNG

57/ 304

	H	M	S									
JUL 31	23	00	43.8	39.12S	173.23E	33 KM	SE	2.3	AV3	MA3	4.1	
			+- 1.4	0.07	0.08	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	EPN	23	01	11.1		-0.7	1.80	93			
	KRP	EPN	23	01	17		0.3	2.16	57		4.0	4.2
		ESN			41		-0.6					
		E			44							
	MNG	EPN	23	01	19.5		1.0	2.29	132		4.7	4.3
		P*			23		-1.3					
		ESN			45		0.3					
		ES*			53		-1.6					
	WEL	EP*	23	01	28		0.7	2.47	152	3.8	4.2	4.2
		ESN			53		4.0					
	KAI	EP*	23	01	47		-1.0	3.68	202	3.8		
		ESN			02	15	-3.5					
	GNZ	E		23	01	57		3.77	84			3.8
	GPZ	ESN		23	02	44		3.1	4.60	185	4.1	

NO MINUTE MARKS AT MNG

57/ 305

	H	M	S									
AUG 01	12	44	29.0	37.06S	176.89E	346 KM	SE	0.9	AV3	MA3	3.8	
			+- 1.5	0.10	0.12	15						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	12	45	16		-0.4	1.38	231		3.4	
	GNZ	P	12	45	18.4		-0.6	1.81	151		4.0	4.0
		E			52							
		ES			58.5		0.3					
	CNZ	P	12	45	24.0		0.8	2.38	206		3.4	
	MNG	P	12	45	35.6		0.3	3.72	197		4.3	3.9
		ES		46	27		-0.4					

57/ 306

	H	M	S									
AUG 01	13	33	13.4	39.11S	173.77E	12 KM	SE	0.8	AV3	MA3	3.5	
			+- 0.5	0.02	0.03	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	IP*	13	33	21.6		-1.1	0.48	99			
		S*			29		-0.5					
	CNZ	PN	13	33	37.0		-1.2	1.38	94		3.3	3.5
		ESN			57		0.4					
	KRP	EPN	13	33	43		-1.0	1.83	50			3.5
		EPG			52		1.6					
		ESN		34	07		0.5					
		ES*			10		0.0					
	MNG	EPN	13	33	46		-0.3	2.00	139		3.8	3.6
		IP*			49		0.3					
		ESN		34	11		0.5					
		E			19							
	WEL	EP*	13	33	54		0.1	2.30	161			
		ESN		34	18.5		0.6					
	MJZ	EPN	13	34	33		-0.1	5.46	206			

FELT AREA(46) MM IV

57/ 307

	H	M	S									
AUG 01	19	18	08.6	33.83S	179.86W	347 KM	SE	2.1	AV3	MA3	5.2	
			+- 1.7	0.13	0.20	14						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP	19	19	18		-0.6	4.07	198		4.9	5.1
		E		20	17							
	GNZ	P	19	19	29.5		-0.2	5.10	199		5.0	4.9
		ES		20	34		0.6					
	ONE	EP	19	19	27.5		-2.6	5.13	246			
	KRP	P	19	19	33.9		-0.7	5.54	221		4.5	
		S		20	46		3.8					
	CNZ	P	19	19	47.0		1.1	6.51	213			
		E		21	09							
	TNZ	EP	19	19	55		2.4	7.08	219			
	MNG	EP	19	19	57.5		-2.8	7.73	207			
		E		20	04.5							
		E		21	24							
	WEL	EP	19	20	09		-1.4	8.58	208	5.7		
		ES		21	44		-2.4					
	KAI	EP	19	20	41		0.7	11.07	216	5.4		
		ES		22	37		-3.3					
	GPZ	EP	19	20	47		2.1	11.45	208	6.0		
		ES		22	50		1.3					
	MJZ	EP	19	21	00		1.0	12.63	214			
		ES		23	13.5		-0.6					
	MSZ	EP	19	21	20		1.0	14.37	217			
		ES		23	52		0.7					

57/ 308

	H	M	S									
AUG 02	07	31	34.6	42.81S	173.21E	12 KM	SE	0.8	AV3	MA3	4.4	
			+- 0.2	0.02	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	GPZ	EP*	07	31	52.5		0.1	0.98	205	3.9		
		S*		32	06		0.3					
	KAI	IPN	07	31	58.6	X	-0.4	1.36	281	4.3		
		ISN		32	16.0		-1.1					
	COB	PN	07	32	05.0		0.7	1.76	348	4.4		
		ESN			27.5		1.4					
	WEL	IPN	07	32	05.7	U	-0.6	1.91	38	4.1	5.0	
		E			11							
		ESN			30		0.3					
	MJZ	P*	07	32	16		0.6	2.32	239		4.2	
		ES*			45		-1.0					
	MNG	IPN	07	32	16.7	U	-1.5	2.77	39		4.7	
	ROX	EPN	07	32	34		1.1	3.87	225			
		EPG			53		0.1					
		ESG		33	45		-0.0					
	CNZ	PN	07	32	35.6		0.7	4.02	27		4.9	
	MSZ	EPN	07	32	38.5		0.3	4.26	242		4.3	

		E		56						
	MNW	EPN	07	32 48	-0.1	4.99	232		4.4	
		EPG		33 12	-3.6•					
		E		51						
	KRP	EPN	07	32 50.5	-0.2	5.19	21		4.5	4.1
		E		33 57.5						
	GNZ	EPG	07	33 26	-0.6	5.54	43			4.3
		ESN		34 01	3.6•					

FELT CHEVIOT(96),WAIAU MM IV

57/ 311

	H	M	S									
AUG 02	16	42	44.6	37.16S	177.75E	232 KM	SE	1.3	AV3	MA3	4.1
			+_ 1.9	0.10	0.15	16					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P	16	43	23.0		1.6	1.50	172		3.9	3.8
	E			44							
	ES			49		-0.9					
KRP	EP	16	43	25		-0.1	1.91	246			
MNG	P	16	43	46.3		-0.4	3.88	206		4.3	3.7
	ES			44 35		0.1					
WEL	P	16	43	56.0		-1.0	4.73	208		4.4	4.1
	ES			44 54		0.7					

57/ 312

	H	M	S									
AUG 03	05	51	38.8	38.59S	176.15E	123 KM	SE	1.3	AV3	MA3	4.1
			+_ 1.6	0.06	0.13	17					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	05	52	00.6		1.3	0.77	217		3.8	3.8
	ES			15		-0.0					
TUA							0.82	106		5.0	4.7
KRP	P	05	52	00.3		0.6	0.82	324		3.4	3.2
	S			15.0		-0.7					
MNG	EP	05	52	13		-1.0	2.09	194		4.0	
ECZ	EP	05	52	14		-0.1	2.09	65		4.6	4.2

57/ 313

	H	M	S									
AUG 03	11	08	41.2	33.30S	179.86E	391 KM	SE	2.2	AV3	MA3	4.7
			+_ 2.5	0.15	0.29	21					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	11	10	00		1.7	4.51	193		5.1	4.8
	ES			59		0.2					
ONE	EP	11	10	04		-1.1	5.16	240			
KRP	P	11	10	13.3		1.4	5.80	216		4.3	
CNZ	P	11	10	25		1.4	6.84	209			
	ES			11 47		2.8					
MNG	EP	11	10	36		-2.0	8.09	204			
	I			38							
	ES			12 07		-3.1					
WEL	EP	11	10	46		-1.8	8.94	205			
	ES			12 26		-1.8					
COB	ES	11	12	41		-1.2	9.62	214			
GPZ	ES	11	13	30		1.4	11.81	206			
MJZ	ES	11	13	54		2.1	12.94	212			

57/ 313

	H	M	S									
AUG 03	13	34	32.5	38.61S	175.90E	164 KM	SE	1.4	AV3	MA3	5.0
			+_ 1.0	0.03	0.05	10					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	P	13	34	56.0		1.4	0.16	98			
CNZ	IP	13	34	58.0	D	1.6	0.65	205			
KRP	IP	13	34	57.2	DSE	0.3	0.74	337		4.7	4.4
	S			35 15		-0.8					
TNZ	IP	13	35	03.4		1.7	1.32	244			
AUC	EP	13	35	07		-1.3	1.96	333		5.7	
MNG	IP	13	35	10.7	U	1.5	2.03	189			
	ES			37		-0.5					
ECZ	EP	13	35	12.5		0.4	2.28	67		4.7	4.8

		ES		41	-1.5					
	WEL	P	13	35 18.7	U -0.1	2.81	198	5.0		5.3
		E		33						
		ES		53	-1.3					
	ONE	EP	13	35 22	-0.1	3.08	336			
	COB	E	13	36 07		3.48	224	5.1		
		S		07.7	-1.4					
	KAI	S	13	36 44.6	-4.6•	5.20	220	5.1		

57/ 313

	H	M	S									
AUG 05	08	25	55.6	38.68S	179.10E	33 KM	SE	1.2	AV3	MA3	4.5
			+_ 1.3	0.04	0.09	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	PN	08	26	10.2		-0.2	0.84	272			5.1
	E			14							
	ESN			22.5		1.2					
ECZ	PN	08	26	14		0.4	1.07	336		5.4	5.5
	ESN			27		0.0					
CNZ	EPN	08	26	39		1.5	2.82	258			
KRP	EPN	08	26	38		-0.7	2.90	284		3.9	3.9
	EP•			44.5		-2.0					
	E			27 03							
MNG	EPN	08	26	46		0.5	3.40	234		3.9	3.9
	ESN			27 24		0.4					
WEL	ESN	08	27	44		0.3	4.23	231	4.4		4.3
MJZ	ESN	08	29	22		-1.5	8.38	228			

FELT TOKOMARU BAY (37)

57/ 314

	H	M	S									
AUG 06	11	18	17.7	35.05S	179.03W	176 KM	SE	1.5	AV3	MA3	4.8
			+_ 1.7	0.13	0.14	24					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	11	19	10.5		0.2	3.28	216		5.0	
GNZ	EP	11	19	23		-0.2	4.29	213		4.8	
KRP	EP	11	19	34.5		-0.9	5.23	235		4.4	
	ES			20 34		-1.6					
AUC	EP	11	19	39		2.2	5.34	248			
CNZ	EP	11	19	45		-0.3	5.99	225			
MNG	EP	11	19	58		-1.4	7.05	216			
	ES			21 21		2.4					
WEL	EP	11	20	11		0.3	7.91	216	5.2		
	ES			21 39		0.1					
GPZ	ES	11	22	45		-1.0	10.77	214			
MJZ	ES	11	23	16		0.2	12.05	219			

57/ 315

	H	M	S									
AUG 06	15	39	04.3	40.30S	174.18E	93 KM	SE	0.9	AV3	MA3	4.0
			+_ 0.6	0.02	0.03	9					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP	15	39	25.5		0.4	1.05	108		4.7	4.5
	ES			41		0.2					
WEL	P	15	39	26		0.4	1.08	156	3.9	3.9	4.7
	ES			41		-0.6					
TNZ	P	15	39	27		0.9	1.12	8		3.9	4.1
	ES			42		-0.4					
COB	EP	15	39	29.5		0.5	1.35	234	4.0		
	ES			48		0.6					
CNZ	EP	15	39	30.5		-0.7	1.52	44		3.6	3.8
	S			51		-0.1					
KRP	EP	15	39	46.5		1.1	2.60	24		3.7	3.6
	ES			40 15		-1.2					
KAI	ES	15	40	26		-1.2	3.05	222	3.6		
GNZ	E	15	40	29			3.40	62			3.8
	ES			32		-4.0•					

													57/ 318
	H M S												
AUG 06	21 00 35.1	38.13S	177.09E	12 KM	SE 1.6				AV3 MA3	4.9			
	+- 0.6	0.03	0.03	R									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
	GNZ P•	21 00 52.2		0.8	0.89	125		4.8	5.1				
	ES•	01 04.5		1.0									
	ESN	07		0.2									
	WNZ EP•	21 00 54		2.0	0.92	237		4.0					
	ECZ P•	21 00 56		-1.2	1.23	70		5.4	5.3				
	KRP IP•	21 00 57.6	DSE	0.1	1.25	279		4.5	4.3				
	S•	01 14		-0.2									
	CNZ EPN	21 01 04		1.1	1.61	228		4.6					
	AUC PN	21 01 11		-0.2	2.24	304		5.8					
	TNZ EPN	21 01 15		2.0	2.37	243		4.5					
	MNG EPN	21 01 16		-2.8	2.78	206		4.8	4.8				
	EP•	24		0.3									
	EPG	31		-0.3									
	ESN	50		-1.6									
	ES•	02 03		2.7									
	WEL EPN	21 01 29		-1.1	3.63	209	5.1	4.9	5.2				
	EP•	37		-1.2									
	ESN	02 09		-2.7									
	ES•	26		0.3									
	COB EPN	21 01 43		1.4	4.48	227	5.0						
	ESN	02 33.5		1.2									
	E	39											
	E	42.5											
	KAI ESN	21 03 11.5		-1.5	6.17	223	4.6						

													57/ 319
	H M S												
AUG 06	23 13 12.0	38.20S	176.67E	101 KM	SE 1.5				AV3 MA3	4.3			
	+- 1.7	0.09	0.07	23									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
	TUA				0.71	148		4.4	4.3				
	KRP IP	23 13 31.7	DE	-0.4	0.94	287		3.9	3.4				
	IS	46.8		-0.5									
	GNZ P	23 13 35.5		0.9	1.15	113		4.1	4.1				
	E	39.5											
	E	44											
	E	52											
	E	54											
	CNZ P	23 13 38.7		1.8	1.33	221		3.6	3.7				
	E	14 00											
	E	05											
	ECZ EP	23 13 39		-0.7	1.57	72		4.3	4.0				
	E	14 05											
	TNZ EP	23 13 47		1.3	2.05	240		3.8					
	E	14 18											
	MNG EP	23 13 52		-1.2	2.59	201		3.9	4.1				
	E	14 27											
	E	34.5											
	WEL ES	23 14 43		-1.2	3.41	205	4.1		4.1				
	E	56											

													57/ 320
	H M S												
AUG 07	14 39 41.4	44.94S	168.77E	12 KM	SE 0.9				AV3 MA3	4.0			
	+- 0.3	0.02	0.02	R									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
	ROX IP•	14 39 54.0		0.2	0.66	145		3.9	4.2				
	ES•	40 02		-0.9									
	MSZ IP•	14 39 52.7	D	-1.2	0.67	293							
	MNW EP•	14 40 03		0.4	1.17	224		4.0	4.1				
	ES•	19		0.7									
	MJZ EPN	14 40 08		-0.3	1.54	52		3.7	3.7				
	EP•	09		0.1									
	SN	29		0.9									

FELT SIBBSTON(132) MM IV

													57/ 319
	H M S												
AUG 08	01 32 11.6	36.06S	177.76W	163 KM	SE 2.1				AV3 MA3	4.8			
	+- 2.2	0.26	0.30	28									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
	ECZ EP	01 33 06		1.0	3.38	240		4.9	4.8				
	ES	46		-0.1									
	GNZ EP	01 33 17		0.9	4.24	231		4.6	4.5				
	ES	34 05		-0.8									
	KRP EP	01 33 31		-4.0	5.68	249		4.1					
	CNZ EP	01 33 40		-1.5	6.17	237							
	ES	34 55		3.6									
	TNZ EP	01 33 53		0.7	6.98	241							
	MNG EP	01 33 52		-0.5	7.00	227							
	ES	35 12		0.9									
	WEL ES	01 35 30		-1.2	7.84	226	5.4						
	GPZ ES	01 36 36		-0.5	10.61	221	5.4						
	MJZ EP	01 34 59		0.8	12.00	225							
	ES	37 07		-2.1									
	MSZ EP	01 35 25		2.7	13.89	227							
	E	37 48											

													57/ 320
	H M S												
AUG 08	16 24 15.5	38.53S	175.99E	171 KM	SE 0.9				AV3 MA3	4.0			
	+- 1.1	0.03	0.03	8									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
	KRP EP	16 24 41		0.6	0.70	330							
	S	59		-0.6									
	CNZ P	16 24 42		1.3	0.75	207		3.6	2.9				
	E	25 08											
	GNZ EP	16 24 47		-1.0	1.60	95		3.9	4.0				
	ES	25 13		-0.0									
	MNG IP	16 24 54.3	U	0.7	2.12	190		4.6	4.1				
	ES	25 23		-0.1									
	WEL P	16 25 03		-0.2	2.91	198	4.1	4.3	4.2				
	ES	40		0.0									
	COB ES	16 25 54		-0.9	3.58	223							

													57/ 321
	H M S												
AUG 09	00 13 12.4	41.34S	173.88E	33 KM	SE 1.4				AV3 MA3	3.9			
	+- 0.4	0.05	0.03	R									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
	WEL IPN	00 13 25.2	U	0.4	0.67	86	3.7	4.3	4.5				
	SN	35.7		1.8									
	COB EPN	00 13 27.5		-0.5	0.90	286	4.1						
	SN	39.7		0.1									
	MNG IPN	00 13 34.0		-1.0	1.41	60		4.5	4.2				
	IP•	36.7		-1.3									
	ESN	51		-0.9									
	KAI ESN	00 14 12		1.0	2.19	236	3.4						
	CNZ EPN	00 13 51		1.2	2.49	31		3.8	3.8				
	GPZ ESN	00 14 17		-2.1	2.53	201	3.4						
	MJZ EPN	00 14 08		2.2	3.65	222		3.4					
	E	11											
	ESN	45		-1.6									
	MSZ PN	00 14 31		0.2	5.50	231		3.9	3.6				
	E	15 28.5											
	ES	31.5		0.3									

													57/ 322
	H M S												
AUG 09	12 47 30.0	38.80S	176.38E	115 KM	SE 1.1				AV3 MA3	4.6			
	+- 0.9	0.04	0.03	11									
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S				
	WNZ EP	12 47 46		-0.5	0.27	308							
	CNZ IP	12 47 49.5	D	-0.1	0.76	238							
	KRP IP	12 47 51.1	DSE	-1.8	1.10	323		5.0					
	E	59											

		E		48 02								
	GNZ	P	12 47	55.7		0.4	1.30	84		4.9	4.1	
		ES		48 14		-0.4						
		E		22								
	TNZ	P	12 47	59.9		1.1	1.60	255		4.2	4.1	
		ES		48 22		1.4						
	MNG	IP	12 48	03.6	D	0.7	1.94	201		4.5	4.1	
		E		08								
	ECZ	EP	12 48	05		0.9	2.03	58		4.8	4.5	
		E		43								
	WEL	P	12 48	13.2		-0.9	2.77	206	4.7	4.4	4.1	
		E		22.5								
		ES		47		-0.5						
		E		59								
	COB	ES	12 49	07		-0.5	3.61	230	4.5			

FELT AT TE HOE(42) MM IV

58/ 33

	H	M	S									
AUG 09	15	15	30.7	38.42S	178.51E	33 KM	SE 1.4		AV3	MA3	4.4	
			+- 1.0	0.05	0.07	R						
				H	M S	DIR	RES	DIST AZ	W-A	W P	W S	
	GNZ	PN		15	15 41.6		1.5	0.44 240				
	ECZ	PN		15	15 44		0.1	0.73 2		5.2	5.1	
		E			48							
	WNZ	E		15	16 12			1.90 263				
	KRP	EPN		15	16 06		-0.8	2.40 281		4.1		
		EP*			12		-1.1					
		ESN			34		-0.3					
	CNZ	EPN		15	16 09		1.5	2.44 251				
		E			18							
	MNG	EPN		15	16 16		-2.0	3.21 226		3.9	4.2	
		E			39							
	TNZ	EPN		15	16 21		1.5	3.32 255		4.0		
		E			17 17							
	WEL	EPN		15	16 29		-0.6	4.06 224	4.5		4.1	
		E			17 03							
		ESN			14		-0.8					
	COB	ESN		15	17 43		0.9	5.19 237				

57/ 33

	H	M	S									
AUG 09	16	20	13.7	38.53S	178.81E	33 KM	SE 1.8		AV3	MA3	4.5	
			+- 1.2	0.06	0.08	R						
				H	M S	DIR	RES	DIST AZ	W-A	W P	W S	
	GNZ	PN		16	20 25		-0.5	0.62 259			5.1	
		E			27							
	ECZ	EPN		16	20 29		0.3	0.86 346			5.0	
		EP*			31		0.8					
	WNZ	E		16	21 02			2.12 266				
		E			28							
	CNZ	EPN		16	20 53		-0.0	2.63 254			4.2	
		E			21 06							
	KRP	EPN		16	20 52		-1.2	2.64 282		4.2		
		EP*			59		-1.3					
		ESN			21 21		-2.2					
	MNG	EPN		16	21 01		-1.3	3.31 230		4.1	4.3	
		E			30							
	TNZ	EPN		16	21 08		2.8	3.52 258		4.2		
		ES*			22 03		1.8					
	WEL	EPN		16	21 14		0.2	4.15 227	4.7		4.4	
		E			45							
		ESN			22 00		0.1					
	COB	ESN		16	22 30		1.6	5.33 239	4.6			
	MJZ	EPN		16	22 12		2.1	8.31 226				
		E			21							
		ESN		23	37		-2.9					

57/ 323

	H	M	S									
AUG 10	04	55	26.4	37.82S	177.55E	33 KM	SE 0.9		AV3	MA3	4.0	
			+- 0.5	0.03	0.02	R						
				H	M S	DIR	RES	DIST AZ	W-A	W P	W S	
	ECZ	PN		04	55 41		0.4	0.80 81		5.0	4.3	
	GNZ	PN		04	55 42		-0.1	0.91 156		3.9	3.9	
		ESN			54		0.3					
	KRP	IPN		04	55 51.3		-0.3	1.60 265		4.0	3.4	
		SN			56 11		0.5					
	CNZ	EPN		04	55 59		0.6	2.09 228		3.7	3.5	
	MNG	EPN		04	56 13		-1.0	3.23 209			3.9	
		ESN			49		-1.2					
		ES*			57 06		0.7					
	WEL	ESN		04	57 10		-1.0	4.08 211	4.3		4.0	
		ES*			32		1.1					

57/ 326

	H	M	S									
AUG 10	06	50	52.3	38.48S	178.51E	33 KM	SE 1.1		AV3	MA3	4.6	
			+- 0.7	0.04	0.04	R						
				H	M S	DIR	RES	DIST AZ	W-A	W P	W S	
	GNZ	IPN		06	51 02.3	U	0.9	0.42 246			5.6	
	ECZ	PN		06	51 06		-0.2	0.78 2				
		E			10.5							
	WNZ	E		06	51 33			1.89 265				
	KRP	EPN		06	51 28.5		0.0	2.40 282				
		EP*			35		0.3					
		ESN			55		-1.0					
	CNZ	EPN		06	51 30		1.3	2.42 252				
		ESN			57.5		1.1					
	MNG	EPN		06	51 38		-1.0	3.17 227		4.3	4.4	
		E			52 01							
		ESN			16		1.3					
	TNZ	EPN		06	51 44		3.2*	3.30 256		4.4		
		ES*			52 33		-0.4					
	WEL	EPN		06	51 50		-0.6	4.02 225	4.8	4.3	4.6	
		ESN			52 36		0.6					
	MJZ	EPN		06	52 47		0.2	8.19 225				
		E			53 00							
		ESN			54 13		-2.4					

FELT TOLOGA AND TOKOMARU BAYS(37) MM IV

57/ 327

	H	M	S									
AUG 10	12	50	39.2	38.85S	175.81E	173 KM	SE 0.9		AV3	MA3	4.2	
			+- 0.8	0.04	0.04	7						
				H	M S	DIR	RES	DIST AZ	W-A	W P	W S	
	CNZ	IP		12	51 03.6		0.6	0.40 210				
	KRP	EP		12	51 05		-1.0	0.95 347				
	TNZ	EP		12	51 08		0.2	1.16 253				
		ES			30		0.2					
	GNZ	P		12	51 14.6		1.2	1.74 84		4.5	3.9	
		E			37							
		ES			39		-0.8					
	MNG	IP		12	51 15.0	U	1.2	1.78 188		4.7	3.7	
		ES			40		-0.5					
	WEL	EP		12	51 23		0.2	2.56 198		4.0	4.0	
		ES			56		-0.4					
	GPZ	EP		12	51 58		-1.0	5.39 205	4.7			
		E			52 55.5							

57/ 328

	H	M	S									
AUG 10	17	55	59.0	40.28S	173.94E	153 KM	SE 1.8		AV3	MA3	4.0	
			+- 1.0	0.05	0.06	11						
				H	M S	DIR	RES	DIST AZ	W-A	W P	W S	
	TNZ	P		17	56 27		1.5	1.15 17		4.0	4.2	
		E			44							
		ES			46		0.1					

	WEL	EP		17 56 28.5		2.6	1.18	148	4.0		4.6
		E			43						
		S			47	0.5					
	MNG	IP		17 56 28.7	U	2.4	1.22	106		4.5	4.2
		E			36.5						
		ES			46	-1.2					
	CNZ	IP		17 56 31.8		1.2	1.65	49		4.0	4.1
		ES			54	-0.9					
	KRP	EP		17 56 43.5		0.6	2.66	28			3.5
		ES			57 14	-2.5					
	KAI	ES		17 57 22.5		-0.2	2.94	220	3.9		
	GPZ	EP		17 56 55.5		1.3	3.54	195	4.3		
		S			57 34	-2.6					
	GNZ	EP		17 56 54		-0.4	3.56	64		3.9	4.3
		E			57 32						
		ES			35.5	-1.4					
	MJZ	ES		17 57 58		-1.2	4.51	214			3.4

57/ 331

	H	M	S								
AUG 11	22	20	34.0	38.70S	176.10E	12 KM	SE	ND			
			R	R	R	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WNZ	PG		22	20	36		-0.6*	0.07	2					
	SG				37.5		-0.8*							
KRP	EP*		22	20	52		1.7*	0.89	330					
	ES*			21	05		2.6*							

FELT AT WAIRAKEI(41)

57/ 331

	H	M	S										
AUG 11	22	20	38.0	38.70S	176.10E	12 KM	SE	ND		AV3	MA3		2.5
			R	R	R	R							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WNZ	ESG		22	20	41.5		-0.8*	0.07	2					
KRP	EP*		22	20	56.5		2.2*	0.89	330			2.5		

FELT AT WAIRAKEI(41)

57/ 331

	H	M	S								
AUG 11	22	20	57.0	38.70S	176.10E	12 KM	SE	ND			
			R	R	R	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WNZ	SG		22	21	00.5		-0.8*	0.07	2					

FELT AT WAIRAKEI(41)

57/ 331

	H	M	S								
AUG 11	22	26	07.0	38.70S	176.10E	12 KM	SE	ND			
			R	R	R	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WNZ	PG		22	26	08.8		-0.8*	0.07	2					
	ES*				10		-0.7*							

FELT AT WAIRAKEI(41)

57/ 331

	H	M	S										
AUG 11	22	26	53.0	38.70S	176.10E	12 KM	SE	ND		AV3	MA3		2.8
			R	R	R	R							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
WNZ	PG		22	26	55.3		-0.3*	0.07	2					
KRP	EP*		22	27	11		1.7*	0.89	330			2.8		
	ES*				19.5		-1.9*							

FELT AT WAIRAKEI(41)

57/ 334

	H	M	S										
AUG 12	05	54	21.1	40.01S	175.29E	33 KM	SE	1.9		AV3	MA3		3.8
			+_ 0.6	0.04	0.08	R							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
MNG	IP		05	54	32.7		-0.2	0.63	167			4.0		3.7
	ES				41.5		-0.1							
CNZ	IP		05	54	33.3		-2.4	0.83	14			3.8		4.1

		ES			45	-1.5					
	WEL	P	05	54	42.4	-0.3	1.34	197	3.4	3.9	3.9
		ES		55	00.5	1.6					
	KRP	EP	05	54	54	1.0	2.09	5		3.7	3.7
		ES		55	20	2.9					
	COB	ES	05	55	19.5	-1.0	2.23	240			

FELT AT OKOIA(57) MM IV

57/ 335

	H	M	S										
AUG 12	18	50	43.8	33.49S	178.17W	321 KM	SE	1.2		AV3	MA3		5.1
			+_ 1.9	0.11	0.23	20							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
ECZ	EP		18	52	02		-0.4	4.98	212			5.0		4.9
	ES			53	04		-0.0							
ONE	EP		18	52	21		-0.1	6.57	248					
KRP	EP		18	52	23		-0.5	6.77	227					
CNZ	E(P)		18	52	35		1.2	7.63	220					
MNG	EP		18	52	47		-0.3	8.74	214					
	ES			54	26		1.5							
WEL	ES		18	54	42		-1.5	9.60	214	5.6				

57/ 336

	H	M	S										
AUG 12	18	52	37.9	33.31S	178.76W	396 KM	SE	ND		AV3	MA3		5.0
			ND	ND	ND	ND							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
ECZ	E		18	54	29			4.89	206					5.0
ONE	EP		18	54	13		0.0	6.18	245					
KRP	EP		18	54	17		0.0	6.54	224					
MNG	ES		18	56	18		0.0	8.62	211					
WEL	ES		18	56	36		0.0	9.48	211					

57/ 337

	H	M	S										
AUG 12	20	03	55.8	33.33S	178.06W	338 KM	SE	0.7		AV3	MA3		5.4
			+_ 1.2	0.06	0.14	12							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
ECZ	EP		20	05	17		-0.1	5.15	211			5.3		5.1
	E				52									
	ES			06	21		0.1							
ONE	EP		20	05	35.5		0.4	6.71	247					
KRP	EP		20	05	37		-0.9	6.93	227					
MNG	EP		20	06	02		0.5	8.91	214					
	E			07	32									
	ES				41		0.4							
WEL	ES		20	07	59		-0.4	9.77	214	5.7				

57/ 338

	H	M	S										
AUG 14	04	23	48.3	38.48S	176.88E	33 KM	SE	0.9		AV3	MA3		4.7
			+_ 0.4	0.02	0.03	R							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
KRP	IPN		04	24	07.3	DE	-0.6	1.19	297			4.3		
	SN				22		-0.5							
CNZ	PN		04	24	10.3		1.5	1.26	235					
ECZ	EPN		04	24	13		0.4	1.54	60			4.9		5.1
	E				39									
	E				43									
TNZ	EPN		04	24	21.5		1.5	2.07	249			4.3		
AUC	EPN		04	24	23		-0.4	2.32	314			5.2		5.2
MNG	EPN		04	24	24		-0.3	2.39	206					4.3
	EP*				30		-0.5							
WEL	EPN		04	24	35		-1.0	3.24	209	4.3		4.8		4.5
	EP*				44		-1.0							
	ESN			25	12		-0.3							
	ES*				28		0.5							
ONE	EPN		04	24	38		0.3	3.37	323					
COB	ESN		04	25	34		0.3	4.12	229	4.4				

FELT AT TE HOE (42)

	H M S														57/ 339
AUG 15	06 54 59.3	38.78S	175.56E	176 KM	SE 1.5					AV3 MA3	4.5				
	+- 1.5	0.06	0.08	13											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
	CNZ IP	06 55 25.6			2.1	0.42	182								
	KRP IP	06 55 25.7		D	-0.1	0.85	359		4.4	3.5					
	S		45.7		-0.5										
	TNZ P	06 55 28.2			1.3	1.01	246		4.5						
	MNG IP	06 55 36.2		U	1.5	1.84	182		4.5	4.7					
	E		41												
	E		55.5												
	ES		56 02		-0.0										
	WEL P	06 55 44			0.7	2.58	193	4.7	4.7	4.7					
	ES		56 16		-1.2										
	ECZ EP	06 55 43			-0.4	2.59	66		4.8	4.8					
	ES		56 16		-1.3										
	COB ES	06 56 28			-2.0	3.17	222								
	H M S														57/ 341
AUG 17	22 54 47.9	41.15S	175.43E	33 KM	SE 1.1					AV3 MA3	3.9				
	+- 0.9	0.04	0.06	R											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
	WEL P	22 54 59			0.8	0.52	254	3.7	3.9	4.1					
	S		55 06		0.4										
	MNG IP	22 54 57.8			-0.5	0.53	5								
	ES		55 04		-1.9										
	CNZ EP	22 55 19			1.2	1.95	3		3.8	3.8					
	ES		41		0.6										
	COB ES	22 55 42			-0.6	2.03	271	3.5							
	TNZ EP	22 55 20.5			0.4	2.11	337		4.0	4.1					
	ES		45		0.5										
	MJZ ES	22 56 45			-0.8	4.63	231								
	FELT AT PONATAHI (70) MM II														
	H M S														57/ 340
AUG 19	15 55 05.8	37.78S	176.39E	218 KM	SE 1.1					AV3 MA3	4.4				
	+- 1.0	0.04	0.07	9											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
	KRP IP	15 55 35.6		UW	-0.3	0.69	258		4.3						
	S		59		-0.1										
	CNZ IP	15 55 43.4			1.6	1.56	205		3.7	3.7					
	AUC EP	15 55 41			-1.0	1.58	305								
	ECZ EP	15 55 43			-0.2	1.71	88		5.0	4.8					
	E		46												
	TNZ EP	15 55 49			1.9	2.11	228		4.1						
	MNG IP	15 55 56.0		D	0.1	2.92	194		5.1	4.7					
	ES		56 34.5		-0.3										
	E		36												
	WEL P	15 56 04.5			-0.8	3.72	199	4.6	4.5	4.4					
	ES		51		-0.5										
	COB ES	15 57 05			-0.3	4.35	219								
	H M S														57/ 342
AUG 19	20 57 36.2	43.92S	167.12E	12 KM	SE 1.8					AV3 MA3	4.8				
	+- 1.5	0.05	0.08	R											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
	MSZ IP*	20 57 51.0		D	-2.5	0.94	143								
	MNW EPN	20 58 09			1.3	1.89	169								
	ESN		31.5		0.6										
	MJZ PN	20 58 15			0.2	2.42	93		4.7	4.7					
	EP*		19		0.3										
	SN		43		-0.6										
	WPZ ESN	20 58 58.5			0.8	3.00	157		4.4	4.6					
	KAI E(PG)	20 58 44			-1.6	3.43	68	4.7							
	ES*		59 24		3.0										
	GPZ ES*	20 59 38.5			0.2	4.01	89	4.7							

	WEL ESN	21 00 13			-2.4	6.23	68								
	MNG EPN	20 59 18			1.1	7.02	65								
	E		24.5												
	E	21 00 42													
	H M S														57/ 343
AUG 20	16 35 50	NEAR HOKITIKA								AV3 MA3	2.5				
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
	KAI EP	16 35 58							2.4						
	ES		36 04												
	MJZ EP	16 36 15								2.6					
	ES		34												
	FELT AT HOKITIKA (91) MM IV														
	H M S														57/ 344
AUG 22	10 17 26.7	35.20S	180.00E	302 KM	SE 1.1					AV3 MA3	4.5				
	+- 2.0	0.15	0.29	22											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
	KRP EP	10 18 38			-1.1	4.50	232		4.5						
	TNZ EP	10 18 58			1.5	5.99	227								
	MNG EP	10 19 02			-0.4	6.48	212								
	E		20 11												
	ES		18		0.4										
	WEL EP	10 19 13			0.1	7.34	213								
	ES		20 36		-0.3										
	CIZ E	10 21 37				9.14	164								
	MJZ ES	10 22 07			-0.2	11.44	217								
	H M S														57/ 345
AUG 22	11 26 47.0	31.76S	179.58E	227 KM	SE 2.8										
	+- 3.1	0.17	0.18	43											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
	KRP EP	11 28 31			3.0	6.99	207								
	MNG EP	11 28 55			-4.5	9.44	199								
	E		59												
	ES		30 44.5		1.2										
	WEL EP	11 29 08			-2.1	10.27	201								
	ES		31 00		-2.3										
	COB ES	11 31 18			3.0	10.82	209								
	CIZ EP	11 29 40			1.1	12.55	167								
	S		31 55		0.4										
	MJZ ES	11 32 29			-1.7	14.16	208								
	MSZ EP	11 30 19			0.2	15.80	212								
	MNW EP	11 30 32			1.5	16.80	210								
	H M S														57/ 346
AUG 22	20 37 02.4	40.77S	173.74E	91 KM	SE 0.6					AV3 MA3	4.3				
	+- 0.3	0.02	0.02	4											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
	COB P	20 37 20.6			0.0	0.83	247	4.1							
	S		34.0		-0.3										
	WEL IP	20 37 22.6		U	0.9	0.93	124	4.0	4.7	4.7					
	S		36.7		0.5										
	MNG IP	20 37 26.0		U	-0.7	1.33	84		4.5	4.5					
	E		29												
	E		37												
	ES		44		-0.9										
	TNZ EP	20 37 31			0.3	1.66	17		4.6	4.9					
	E		49												
	ES		52		0.3										
	KAI ES	20 38 11			-0.1	2.48	224								
	MJZ EP	20 38 03.5			0.4	4.03	216		3.5	3.8					
	E		47												
	MSZ EP	20 38 27			-0.3	5.80	226		3.7	4.2					
	E		39 28												
	ES		33		-0.1										

	H M S											
												67/ 347
AUG 24	12 01 33.7	38.39S	176.02E	163 KM	SE 1.1				AV3 MA3	5.1		
	+- 0.7	0.02	0.04	7								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	WNZ EP	12 01 56		0.1	0.25	165						
	KRP IP	12 01 57.0	D	-0.2	0.60	321		4.5	4.4			
	S	02 14.2		-1.1								
	CNZ IP	12 02 00.5	D	1.5	0.89	204						
	TUA IP	12 01 59.8	D	0.1	0.98	116		5.2	5.4			
	TNZ IP	12 02 06.9	U	2.2	1.51	238		4.9				
	GNZ IP	12 02 04.8	D	-0.7	1.59	100		5.5	5.3			
	AUC EP	12 02 08		0.1	1.82	327						
	ES	35		0.7								
	MNG IP	12 02 13.6	U	0.5	2.26	190						
	ONE EP	12 02 22		0.7	2.93	333	4.3					
	ES	57		-0.9								
	WEL P	12 02 22.2		-0.7	3.05	198	5.1	5.5	5.3			
	ES	03 00		-0.6								
	COB EP	12 02 30		-1.2	3.70	222	5.0					
	ES	03 15		-0.4								
	KAI ES	12 03 52.5		-3.3*	5.42	219	5.3					
												67/ 348
AUG 25	H M S								AV3 MA3	4.2		
	21 54 36.3	39.33S	174.71E	193 KM	SE 0.9							
	+- 0.8	0.03	0.04	8								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	TNZ EP	21 55 03		0.9	0.29	300						
	CNZ IP	21 55 04.5	D	1.0	0.67	79		4.3				
	MNG IP	21 55 10.0		1.1	1.42	155		4.5	4.7			
	E	14										
	E	27										
	ES	34		-0.0								
	KRP P	21 55 10		-0.1	1.55	25		3.7	3.8			
	ES	35.5		-0.7								
	WEL E	21 55 33			1.95	179	4.2		4.4			
	ES	43		-0.3								
	TUA P	21 55 15		0.6	1.97	75		4.4	4.2			
	ES	43		-0.7								
	COB ES	21 55 50		-0.2	2.31	220						
	GNZ EP	21 55 21.5		-0.9	2.68	76		4.5	4.3			
	E	55										
	KAI ES	21 56 27		-0.7	4.05	217						
												67/ 349
AUG 25	H M S								AV3 MA3	4.2		
	22 53 00.9	44.85S	167.23E	12 KM	SE 1.4							
	+- 1.9	0.06	0.11	R								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	MSZ IP*	22 53 08.7		-2.3	0.52	70						
	MNW IP*	22 53 18.9	U	0.3	0.97	164		4.4	4.1			
	ES*	31.5		-0.2								
	MJZ EPN	22 53 40.5		0.2	2.48	71		3.9	4.2			
	E	42										
	EP*	46		1.6								
	ESN	54 10		0.3								
	ES*	17		-0.0								
												67/ 350
AUG 26	H M S								AV3 MA3	4.7		
	02 27 59.3	46.38S	166.16E	33 KM	SE 1.0							
	+- 1.1	0.05	0.06	R								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	MNW EPN	02 28 18		-0.7	1.18	60						
	WPZ EPN	02 28 29		0.7	1.88	100		4.8	5.1			
	SN	50		-0.2								
	MSZ EPN	02 28 30		-1.4	2.11	37						
	MJZ PN	02 28 55		-0.6	3.87	53		4.3				
	E	29 02										

	EP*		05.5	-1.3								
	ESN		39	0.2								
COB	EPN	02 29	40	0.5	7.11	44						
	ESN		30 57	0.2								
MNG	EPN	02 30	03.5	0.4	8.89	53						
KRP	EPN	02 30	32	1.8	10.94	43						
	ES		32 28	0.4								
												67/ 351
	H M S									AV3 MA3	4.2	
AUG 26	11 45 40.4	46.43S	166.07E	33 KM	SE 0.2							
	+- 0.4	0.02	0.03	R								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
MNW	EPN	11 46 01		0.1	1.26	60		4.1	4.2			
	ESN	16		-0.2								
MSZ	EPN	11 46 13.5		-0.1	2.18	37						
	ES*	48		0.0								
MJZ	E	11 46 45			3.95	53						
	ESN	47 22		0.2								
												67/ 352
	H M S									AV3 MA3	4.1	
AUG 27	11 25 06.8	46.31S	166.15E	33 KM	SE 1.8							
	+- 2.1	0.07	0.12	R								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
WPZ	EPN	11 25 35.5		-0.7	1.90	102		4.0	4.2			
	ESN	57.5		-0.8								
MSZ	EPN	11 25 38		-0.3	2.06	38		4.1	4.1			
	EP*	42		-1.4								
	ES*	26 09		-1.6								
MJZ	EPN	11 26 03		0.3	3.84	54						
	E	09										
	ESN	48		2.6								
MNG	EPN	11 27 12		1.8	8.85	53						
												67/ 353
	H M S									AV3 MA3	4.3	
AUG 27	21 41 32.3	45.22S	166.64E	60 KM	SE 0.9							
	+- 1.3	0.04	0.08	16								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
MSZ	P	21 41 50.7		-0.9	1.06	59		4.3	4.4			
	E	54.5										
	ES	42 06.5		0.5								
ROX	P	21 42 03.0		-0.1	1.90	99		4.4	4.3			
	E	23.5										
WPZ	EP	21 42 06		0.0	2.11	134			4.1			
	ES	31		-0.0								
MJZ	EP	21 42 19.5		0.8	3.00	67						
	ES	53		-0.8								
												67/ 354
	H M S									AV3 MA3	3.8	
AUG 29	13 57 50.8	44.26S	167.35E	33 KM	SE 0.5							
	+- 0.8	0.03	0.04	R								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
MSZ	IPN	13 58 01.5		-0.4	0.58	136		3.7	4.1			
	E	06										
MNW					1.53	173		4.1	4.0			
ROX	PN	13 58 20		0.5	1.85	132		3.9	3.9			
	SN	41		-0.0								
MJZ	EPN	13 58 25		-0.1	2.26	84		3.5	3.4			
	E	27.5										
	ESN	51		0.0								
												67/ 355
	H M S									AV3 MA3	4.4	
AUG 30	07 26 29.6	41.09S	175.78E	12 KM	SE 0.7							
	+- 0.8	0.04	0.04	R								
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
MNG	IP*	07 26 38.8		-0.8	0.53	334						
WEL	P*	07 26 45.3		1.1	0.79	255	4.3	4.6	4.8			
	S*	54.4		-0.6								

	CNZ	PN	07 27 01.0		-0.1	1.90	354			4.3	4.3
	TNZ	EPN	07 27 05		0.0	2.19	330			4.3	4.3
		SN	32		0.8						
	COB	ESN	07 27 34		-0.1	2.31	269	4.0			
	KRP	EPN	07 27 18		-0.4	3.17	356				
		EP*	25		0.1						

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	H	M	S										
AUG 30	11	31	42.4	41.18S	174.55E	79 KM	SE	1.1		AV3	MA3	4.4
			+- 0.6	0.03	0.04	7						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP	11	31	55.2	UN	0.8	0.19	123	4.9		
		E			59							
		S		32	03		-0.5					
	MNG	IP	11	32	01.0	U	0.4	0.90	52			
	COB	P	11	32	07		0.2	1.38	273	4.6		
		ES			24.5		-0.4					
	TNZ	P	11	32	14.7		-0.1	2.00	356		4.5	4.6
		ES			39		0.3					
	CNZ	EP	11	32	16.5		-0.0	2.12	21			
	KAI	P	11	32	27		2.2	2.70	239	4.5		
		E			59							
	GPZ	ES	11	33	00.5		-0.6	2.88	209			
	KRP	EP	11	32	32		-1.6	3.34	13			
	MJZ	ES	11	33	31		-0.6	4.12	226		4.0	4.1

FELT BOTH SIDES COOK STRAIT MM IV

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	H	M	S										
AUG 31	05	45	47.6	38.39S	175.85E	183 KM	SE	0.7		AV3	MA3	4.1
			+- 0.7	0.03	0.03	5						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	05	46	13		0.0	0.52	331		3.5	
		ES			32		-0.5					
	CNZ	P	05	46	16		1.3	0.85	196		3.8	
	TUA	EP	05	46	17		0.5	1.10	113		4.4	4.2
		ES			39		0.1					
	GNZ	EP	05	46	22		-0.2	1.72	99		3.8	4.1
		ES			48.5		-0.5					
	ECZ	EP	05	46	27		-0.8	2.23	73		4.3	4.1
		ES			59.5		0.7					
	MNG	IP	05	46	27.8	U	-0.2	2.25	187		4.2	4.2
		ES			59		-0.1					
	WEL	ES	05	47	15		-0.3	3.02	196	4.5	4.4	

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	H	M	S										
AUG 31	13	15	25.3	36.94S	178.99E	134 KM	SE	1.6		AV3	MA3	4.3
			+- 2.9	0.08	0.18	30						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP	13	15	47		-0.3	0.83	205		4.7	4.7
	GNZ	P	13	15	58		-0.2	1.86	204			4.3
		E		16	15							
		E			28							
	TUA	P	13	16	05		0.5	2.36	217		4.5	4.5
		E			38							
	KRP	EP	13	16	12		0.1	2.92	249		4.0	
	CNZ	P	13	16	23		3.2	3.53	229		4.0	
	ONE	EP	13	16	24		-0.9	3.91	286			3.9
	MNG	EP	13	16	32.5		-1.3	4.58	216			
		ES		17	26		-0.6					
	WEL	ES	13	17	47		-0.3	5.44	216			4.3

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	H	M	S										
SEP 01	07	06	16.1	34.01S	178.66W	33 KM	SE	1.7		AV3	MA3	5.1
			+- 1.7	0.09	0.09	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP	07	07	19.5		1.0	4.31	211		5.0	
		E		08	15							

GNZ	EP	07 07 32		-0.3	5.34	209		4.7		
TUA	EP	07 07 37		-2.3	5.85	214		5.1	4.8	
	ES	08 50		6.5*						
ONE	EP	07 07 43		1.8	5.99	251				
KRP	EP	07 07 43		0.3	6.11	229				
MNG	EP	07 08 06		-3.1	8.07	214				
	ES	09 38		1.5						
WEL	ES	07 09 57		-0.1	8.93	214	5.3			
COB	ES	07 10 19		0.9	9.82	222	5.2			
CIZ	EP	07 08 37		1.5	10.06	171				
	S	10 24		0.2						
MJZ	ES	07 11 32		-1.4	13.05	217				
USCGS	ORIGIN	07 06 21.9	34.45	179.0E	33KM	MAG 4.7				

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	H	M	S										
SEP 01	23	39	00.0	34.10S	178.68W	33 KM	SE	1.2		AV3	MA3	5.2
			+- 1.0	0.06	0.06	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP	23	40	02		0.7	4.24	211		5.1	
	GNZ	EP	23	40	15		-0.2	5.26	209		4.9	
	TUA	P	23	40	22		-0.2	5.78	214		5.2	4.9
		ES		41	34		8.4*					
	ONE	EP	23	40	25		0.4	5.96	252			
		E			31							
	AUC	E	23	40	35			6.01	241			
	KRP	EP	23	40	26		0.2	6.05	229			
		E		41	30							
	CNZ	EP	23	40	38		0.8	6.89	221			
		E			59							
	MNG	P	23	40	50		-2.0	8.00	214			
		S		42	20		1.3					
	WEL	S	23	42	40		0.8	8.86	214	5.7		
	CIZ	EP	23	41	20		1.7	9.98	171			
		S		43	05		-0.8					
	GPZ	ES	23	43	47		0.4	11.72	213	5.4		
	MJZ	EP	23	41	56		-1.3	12.98	217			
		ES		44	14		-1.7					
	MSZ	EP	23	42	20		0.0	14.78	220			
	USCGS	ORIGIN	23	38	51.7	33.85	178.6W	26KM	MAG 4.6			

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	H	M	S										
SEP 02	01	24	16.0	34.06S	178.61W	205 KM	SE	1.5		AV3	MA3	5.3
			+- 1.5	0.08	0.09	19						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP	01	25	22		-0.3	4.30	212		5.1	
	GNZ	EP	01	25	34		-1.2	5.32	210		4.9	
	TUA	P	01	25	41		-0.9	5.84	215		5.0	5.0
		ES		26	51		2.2					
	ONE	EP	01	25	44		-0.3	6.02	251			
		E			52							
	KRP	EP	01	25	45		-0.4	6.11	229			
		E		26	58							
	CNZ	EP	01	25	59		2.7	6.95	221			
	MNG	EP	01	26	09		-1.8	8.06	214			
		S		27	40		-0.5					
	WEL	ES	01	28	00		-0.4	8.92	214	6.0		
	CIZ	E	01	26	44			10.01	171			
		S		28	26		0.3					
	GPZ	ES	01	29	06		-0.8	11.78	213	5.6		
	MJZ	ES	01	29	35		-0.6	13.04	217			
	MSZ	EP	01	27	39		2.0	14.84	220			
	USCGS	ORIGIN	01	24	22.4	33.75	178.8W	129KM	MAG 4.7			

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	H	M	S										
SEP 02	06	56	51.5	33.89S	178.35W	33 KM	SE	1.8		AV3	MA3	5.2
			+- 2.1	0.11	0.11	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ	EP		06	57	59	1.7	4.56	213		5.1		
		ES			58	55	7.3*						
	GNZ	EP		06	58	10	-1.0	5.58	211		4.7		
	TUA	EP		06	58	18.3	0.1	6.11	215				
		E			59	29							
	ONE	E		06	58	25		6.28	251				
	AUC	I		06	58	35		6.35	240				
	KRP	P		06	58	22	-0.0	6.39	229				
	CNZ	EP		06	58	35	1.7	7.23	221				
	MNG	EP		06	58	45	-2.9	8.33	214				
		ES		07	00	19	0.9						
	WEL	S		07	00	37	-1.6	9.19	214	5.7			
	COB	ES		07	01	02	2.0	10.09	222	5.3			
	CIZ	E		06	59	18		10.15	173				
		ES		07	01	02	0.6						
	GPZ	ES		07	01	44	-1.7	12.05	213	5.4			

	H	M	S									57/ 362
SEP 02	11	52	23.6	40.32S	176.29E	33 KM	SE	0.5	AVO	MAG		3.3
			+- 0.3	0.01	0.02	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNG	P*		11	52	36.8	D -0.3	0.68	244		3.9	3.9	
		S*				46.3	-0.6						
	CNZ	P*		11	52	47.2	0.6	1.26	333		3.4	3.3	
		S*				53 03	-0.7						
	WEL	ESN		11	53	06	0.6	1.50	230	3.1			
	TUA	E?		11	52	56		1.65	24				3.7
		SN				53 09	-0.1						
	TNZ	ES*		11	53	22	0.5	1.86	307				3.2
	GNZ	EPN		11	52	56.2	-0.1	2.15	39		3.8		
		E			53	17							
	KRP	ESN		11	53	29	0.2	2.47	346				

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	H	M	S									57/ 366
SEP 03	23	08	38.2	39.26S	174.74E	220 KM	SE	1.4	AVO	MAG		4.7
			+- 0.8	0.05	0.07	9						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TNZ	P		23	09	08.5		1.3	0.29	285			
	CNZ	P		23	09	09.4	D	1.1	0.63	85			
		E				30							
	MNG	P		23	09	15.6		1.9	1.47	157		4.9	4.8
		S				42		0.8					
	KRP	P		23	09	14.0		0.3	1.47	25		3.9	3.8
		S				39.5		-1.7					
	TUA	EP		23	09	19.0		1.1	1.93	77		4.6	5.2
		E				41							
		S				47		-1.5					
	WEL	P		23	09	20.2		1.4	2.02	179	4.9	4.7	5.1
		S				50.0		-0.1					
	GNZ	P		23	09	25.8		0.5	2.64	78		5.2	5.1
		S				10 00		-1.7					
	ECZ	P		23	09	33.0		-0.8	3.37	64		5.5	4.8
		ES				10 13		-3.8*					
	GPZ	E		23	10	00			4.70	199	5.5		
		S				44		-1.8					
	MJZ	EP		23	10	04		1.3	5.70	213		4.0	4.1
		S				11 07		-1.4					
	MSZ	EP		23	10	24.5		-0.2	7.42	221			
		S				11 47		-0.9					

	H	M	S									57/ 367
SEP 07	11	44	46.7	39.30S	175.51E	33 KM	SE	0.6	AVO	MAG		3.4
			+- 0.2	0.01	0.02	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	P*		11	44	51.8	-0.5	0.10	16			
	TNZ	P*		11	45	03.8	0.1	0.89	277		3.5	3.7
		S*				16.0	0.1					
	MNG	P*		11	45	11.2	0.5	1.32	181		4.1	3.8
		S*				29	0.5					
	KRP	P*		11	45	12.1	0.5	1.37	1		3.6	3.2
		S*				29.8	-0.3					
	WEL	EP*		11	45	23	-0.4	2.07	196	3.4	3.5	3.6
		S*				50	-0.7					

FELT OHAKUNE (49) MM IV

	H	M	S									57/ 366
SEP 08	07	39	31.5	39.10S	174.81E	242 KM	SE	1.5	AVO	MAG		4.5
			+- 1.0	0.06	0.08	8						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	P		07	40	04.6		1.4	0.35	255		
		E				30						
	CNZ	P		07	40	05.0		1.1	0.58	100		4.2	4.1
		S				29		-0.0					
	KRP	P		07	40	08.0		0.1	1.30	26		4.7	
		S				34.0		-2.0					
	MNG	P		07	40	12.0		1.8	1.60	161		5.1	
		E				35							
	TUA	P		07	40	12		-0.2	1.85	82		4.4	4.7
		S				41		-2.7					
	WEL	P		07	40	17.0		1.6	2.18	181	4.7	4.6	4.8
		S				50.0		0.7					
	GNZ	P		07	40	19.0		-0.1	2.55	81		4.4	
		E				52							
		E				55							
	COB	EP		07	40	21		1.9	2.55	218	4.8		
		S				57		1.0					
	KAI	ES		07	41	31		-0.4	4.29	216	4.3		
	GPZ	EP		07	40	47		0.9	4.87	199	5.1		
		S				41 43		-1.1					
	MJZ	EP		07	40	59		0.5	5.87	212		3.8	3.7
		S				42 05		-1.4					
	MSZ	EP		07	41	19.2		-0.9	7.58	221			
		S				42 43		-2.2					

	H	M	S									57/ 367
SEP 10	08	07	05.3	46.55S	165.89E	33 KM	SE	1.6	AVO	MAG		4.5
			+- 2.0	0.15	0.19	R						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	PN		08	07	27.0		-1.1	1.43	58			
		IP*				28.5		-2.7					
	MSZ	PN		08	07	41.0		0.1	2.36	38		4.7	4.7
		IP*				45.0		-2.0					
		ESN			08	08		0.1					
	ROX	PN		08	07	45.5		1.0	2.62	67		4.3	4.7
		E			08	16							
	MJZ	EPN		08	08	06		0.9	4.12	53		4.1	
		E				12							
		EP*				17		-0.2					
		ESN				51		0.1					
	GPZ	E		08	08	35			5.56	62	4.5		
	KAI	ESN		08	09	29		1.6	5.63	46	4.3		
	MNG	PN		08	09	14.5		2.0	9.14	53			

	H	M	S									57/ 368
SEP 11	15	37	34.0	37.67S	178.00E	130 KM	SE	2.1	AVO	MAG		5.2
			+- 1.2	0.07	0.06	13						

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P		15	37	50.0	D -2.9	0.43	93			
	GNZ	P		15	37	58.1	1.2	0.97	179			
		I			38	02						

	TUA	P	15 38 02.5		1.9	1.32	210		5.3		
		E	24								
	WNZ	P	15 38 07.5		1.8	1.78	237		4.9		
	KRP	P	15 38 08.2	U	0.2	1.97	262		4.9	4.8	
		I	28								
		S	31		-2.8						
	CNZ	P	15 38 17.0		2.7	2.46	231				
	TNZ	P	15 38 29.4		5.0•	3.22	241		5.3		
		E	39 11								
	ONE	EP	15 38 27.5		-0.4	3.48	302	4.6			
		S	39 08		-1.0						
	MNG	P	15 38 29.5		0.9	3.54	213		5.2		
		I	39.5								
		E	39 13								
		E	31								
	WEL	P	15 38 40.7		0.7	4.39	214	5.6	5.2	5.5	
		I	53								
		I	39 00								
		S	32		1.3						
		E	55								
	COB	E	15 39 00			5.32	228	5.2			
		S	55		2.0						
	KAI	ES	15 40 34		0.2	7.00	224	5.1			
	GPZ	EP	15 39 20		1.2	7.26	212	5.8			
		S	40 37		-3.2						
	CIZ	E	15 39 25.8			7.51	148				
		I	29								
		S	40 44		-2.1						
	MJZ	EP	15 39 37		1.6	8.51	220				
		S	41 09		-1.2						
	MSZ	EP	15 40 01		1.4	10.32	224				
		E	04								
		S	41 50		-3.5						

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	H	M	S								
SEP 11	17	16	24.8	45.11S	167.60E	101 KM	SE	2.0	AV3	MA3	4.1
			+_ 2.4	0.08	0.10	15					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ P	17	16	41.2		0.4	0.49	27			
	ES			53		-0.1					
	MNW P	17	16	42.1		-0.2	0.67	179			
	S			54		-1.6					
	ROX P	17	16	50.8		2.0	1.26	107		4.2	4.5
	S			17 08.0		1.2					
	MJZ EP	17	17	03		0.6	2.33	62		3.3	4.0
	S			31.5		1.0					
	GPZ E	17	17	59			3.88	70	4.1		
	ES			18 05		-3.3					
	MNG E	17	18	17			7.32	55			
	E			19 27							

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	H	M	S								
SEP 12	06	43	40.4	40.08S	176.13E	33 KM	SE	1.2	AV3	MA3	4.1
			+_ 0.5	0.02	0.03	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG IP•	06	43	57.2	U	2.4	0.74	222		4.4	
	S•		44	08.3		3.1•					
	CNZ P•	06	43	58.3	D	-0.8	0.98	333		4.2	
	S•		44	12		-0.6					
	TUA P•	06	44	08		0.6	1.49	32		4.2	
	E			27							
	E			45							
	WEL P•	06	44	07.8		-1.3	1.59	220	3.8	4.4	4.3
	S•			29.2		-1.2					
	TNZ P•	06	44	08.8		-0.7	1.62	303		3.9	4.2
	ES•			31		-0.1					
	GNZ EP•	06	44	17		0.2	2.05	46		3.7	

		E	25								
		E	31								
	KRP	EPN	06 44 14			0.2	2.20	348		4.0	
		EP•	21			1.6					
		ESN	39			-0.1					
		ES•	48			-0.4					
	COB	ESN	06 44 55			1.8	2.78	248	3.7		
		ES•	45 07			1.2					
	GPZ	ESN	06 45 34			-0.1	4.46	215	4.3		
	MJZ	EP•	06 45 19			-1.1	5.75	225		3.7	
		ESN	46 06			0.7					
	MSZ	EP•	06 45 50			-2.1	7.62	230			

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	H	M	S								
SEP 13	02	33	28.3	37.16S	178.43E	12 KM	SE	2.7	AV3	MA3	4.2
			+_ 5.7	0.30	0.14	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PG	02	33	37.5	D	-1.9	0.54	170			
GNZ	PG	02	33	58.5		-0.5	1.51	192		4.7	
TUA	EPG	02	34	08.5		1.2	1.93	211		4.8	
KRP	EPG	02	34	17.0		-0.3	2.42	251		4.0	
	SG			50.5		0.6					
CNZ	E	02	34	23			3.05	227		3.8	
	EPG			30		0.0					
TNZ	EPG	02	34	40		-4.7	3.78	236		4.1	
MNG	EPN	02	34	34.0		3.7	4.15	213		4.1	
	EPG			54		1.8					

FELT TOKOMARU BAY (37)

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	H	M	S								
SEP 14	07	38	33.5	38.67S	175.84E	153 KM	SE	2.2	AV3	MA3	4.1
			+_ 1.6	0.08	0.08	12					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	P	07	38	57.8		2.1	0.57	203		4.1	3.5
	ES		39	13		0.1					
KRP	P	07	38	58.5		1.5	0.78	342		3.4	
	E		39	09							
	IS			13		-2.2					
TNZ	E	07	39	29			1.25	245			3.4
GNZ	P	07	39	06.5		0.7	1.71	90		4.3	4.6
	S			28		-2.8					
MNG	P	07	39	11.2		2.6	1.96	188		4.2	4.0
	S			36		0.3					
WEL	P	07	39	20.8		2.5	2.74	197	4.4	3.9	4.4
	S			53		0.3					
COB	E	07	40	12			3.39	224	4.3		
GPZ	ES	07	40	56		-2.7	5.56	205	4.5		
MJZ	S	07	41	25		-0.2	6.67	216			
MSZ	E	07	41	16			8.42	222			
	ES		42	05		-2.1					

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	H	M	S								
SEP 14	10	26	40.8	45.48S	166.28E	33 KM	SE	2.1	AV3	MA3	4.0
			+_ 2.7	0.09	0.15	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P	10	26	57.2		-0.4	0.99	108		4.5	
	S		27	07		-3.0					
MSZ	P	10	27	01.8		-1.6	1.42	56		4.1	4.1
	ES			19		-1.5					
ROX	P	10	27	14		0.7	2.14	91		3.9	4.2
	S			38		0.0					
WPZ	E	10	27	16			2.14	124		3.9	3.9
	ES			40		1.9					
MJZ	EP	10	27	31		1.2	3.34	65		3.5	
	S		28	10		2.7					
GPZ	E	10	28	20			4.89	71	4.1		
	E			51							

	MNG	E	10 28 45				8.31	57					
	H M S												57/ 374
SEP 14	11 57 27.8		41.95S	174.52E	33 KM	SE	0.5		AV3	MA3	3.5		
	+- 0.3		0.02	0.02	R								
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	WEL	P	11 57 40.0			-0.5	0.69	16	3.7	3.7	4.4		
		S	49.5			-0.3							
	MNG	P	11 57 52.4			0.6	1.52	29		3.2	3.7		
		S	58 10.2			0.2							
	COB	ES	11 58 12			0.2	1.60	302	3.0				
	GPZ	ES	11 58 27			-0.1	2.22	218	3.1				
		E	38										
		E	59										
	CNZ	E	11 58 20				2.86	16		3.3			
	H M S												57/ 375
SEP 15	19 19 25.1		42.57S	173.35E	12 KM	SE	1.3		AV3	MA3	4.1		
	+- 0.4		0.03	0.03	R								
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	GPZ	P*	19 19 48.0			0.7	1.24	205	3.8				
		S*	20 03			-0.9							
	KAI	EP*	19 19 50.0			-0.8	1.44	271	4.0				
		S*	20 08			-2.0							
	COB	P*	19 19 55			2.2	1.56	342	4.0				
		S*	20 13.5			-0.0							
	WEL	PN	19 19 52.0			-1.5	1.66	40	4.2	4.6	4.8		
		SN	20 10.0			-4.5*							
	MNG	PN	19 20 02.9			-2.4	2.52	40		4.1	4.5		
		SN	29.8			-5.6*							
	MJZ	PN	19 20 06.8			1.3	2.54	235		4.0	3.7		
		SN	37			1.2							
	TNZ	EPN	19 20 19.5			1.5	3.47	13		4.0	4.4		
		E	21 01										
	CNZ	PN	19 20 21.8			-0.1	3.76	27		3.9	4.1		
		ISN	21 05			0.1							
	MSZ	EPN	19 20 31.5			0.0	4.47	240		3.8	3.8		
		ESN	21 23			0.9							
	KRP	PN	19 20 37.5			-0.2	4.93	21		4.1			
		SN	21 33			-0.3							
	MNW	EPN	19 20 42			0.4	5.22	230		3.9	3.7		
		E	21 43										
	FELT CHEVIOT (96) AND KINCAID (90) MM III												
	H M S												57/ 376
SEP 16	05 22 29.3		43.28S	170.88E	12 KM	SE	1.6		AV3	MA3	4.1		
	+- 0.4		0.03	0.04	R								
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	MJZ	IP*	05 22 42.2		U	-1.3	0.77	203		4.6			
	KAI	EPN	05 22 45.0			-2.0	0.85	27		3.2	3.6		
		IP*	46.0			1.2							
		S*	57			0.7							
	GPZ	EP*	05 22 53.0			-0.4	1.35	109	3.7				
		ES*	23 12			0.5							
	ROX	EPN	05 23 07.0			-1.5	2.47	207		4.7	4.3		
		IP*	12.3			-0.2							
		ES*	47			2.0							
	MSZ	EPN	05 23 08.5			-1.3	2.55	236		4.3	4.6		
		IP*	12.0			-2.0							
		I	15.0										
		SN	42			1.7							
	WEL	E	05 23 26				3.50	57	4.2				
		ESN	24 04			1.1							
		ES*	14			-2.2							
	WPZ	EP*	05 23 35			1.8	3.68	202		4.4			
	MNG	EPN	05 23 32.5			-1.4	4.34	54		4.4	3.8		
		E	40										

		E	24 35										
	TNZ	EPN	05 23 41			0.0	4.86	34		4.1	3.9		
		ESN	24 37			1.2							
	CNZ	E	05 23 54				5.38	42		3.9			
	KRP	EPN	05 24 04			2.3	6.41	35					
	FELT WAITAHA (98) MM IV												
	H M S												57/ 377
SEP 16	23 31 28.7		30.99S	177.45E	339 KM	SE	2.2		AV3	MA3	6.2		
	+- 2.2		0.13	0.19	24								
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	AUC	E	23 33 16				6.26	200					
	ECZ	EP	23 33 08			-0.5	6.74	173					
		S	34 23			-3.9							
	KRP	P	23 33 20			7.4*	7.09	192					
		E	34 45										
	GNZ	E	23 33 14				7.65	177					
		IP	18			-1.2							
		E	34 44										
	TUA	EP	23 33 22			1.0	7.80	182					
		E	45										
		S	34 52			2.5							
	CNZ	P	23 33 31			3.6	8.33	190					
		ES	35 03			2.0							
		I	16										
	TNZ	E	23 33 37				8.55	196					
	MNG	E	23 33 40.4				9.73	189					
		IP	44.0			-0.3							
		I	35 24										
		S	31			-0.5							
	WEL	P	23 33 52.5			-1.0	10.50	191	6.4				
		S	35 48			-0.0							
	GPZ	EP	23 34 25			-1.5	13.24	195	6.0				
		S	36 46			-1.7							
	CIZ	E	23 34 39				13.78	162					
		ES	37 01			1.5							
	H M S												57/ 378
SEP 17	03 32 31.7		44.34S	167.79E	12 KM	SE	1.0		AV3	MA3	4.2		
	+- 1.0		0.04	0.05	R								
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	MSZ	P*	03 32 38.1			-0.6	0.35	165					
	MNW	P*	03 32 57.5			-0.1	1.45	185		4.5	4.7		
		S*	33 18.2			1.3							
	ROX	EP*	03 32 59.5			-0.2	1.57	137		3.8	4.1		
		S*	33 20			-0.6							
	MJZ	P*	03 33 05.0			-1.3	1.96	81		4.0			
		S*	33			0.9							
	KAI	E	03 33 31				3.20	57	4.0				
		ES*	34 10			0.6							
	MNG	EPN	03 34 14			4.8*	6.79	59					
	H M S												57/ 379
SEP 17	10 25 25.7		44.50S	169.86E	12 KM	SE	2.3		AV3	MA3	3.8		
	+- 0.6		0.05	0.05	R								
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S		
	MJZ	IP*	10 25 36.0			-2.2	0.67	40		3.5	3.8		
		S*	45			-2.5							
	ROX	P*	10 25 42.0			-2.7	1.05	202		4.0	4.3		
		I	44.0										
		ES*	57			-1.8							
		E	59										
	MSZ	E	10 25 50.2				1.40	262		4.5	4.3		
		IP*	51.3			0.6							
		ES*	26 11			1.6							
	MNW	EP*	10 26 00			-1.6	2.04	230		3.7			
		E	30										

		E		34						
	GPZ	EP•	10 26	03	-0.7	2.16	69	3.7		
		E		29						
		ES•		35	2.8					
	KAI	EP•	10 26	07	1.4	2.27	30	3.1		
		E		11						
		ES•		37	1.4					
	WPZ	EP•	10 26	06	0.4	2.27	198		4.0	3.8
		E		21						
		ES•		39	3.4					
	MNG	E	10 26	59		5.68	49		3.4	

FELT OTAMATAPAIO (125) MM IV AND TARA HILLS (124)

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	H	M	S									
SEP 18	13	06	49.7	46.47S	166.71E	33 KM	SE	2.0	AVG	MAG	3.8	
		+-	2.2	0.09	0.10	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	E	13	07	07.0			0.93	43		4.1	3.7
	IP•			08.0		0.5					
	E			28							
WPZ	EP•	13	07	16		-0.5	1.49	98		3.9	3.8
	ES•			39		2.5					
MSZ	EPN	13	07	22.3		2.1	1.99	26		3.8	3.7
	IP•			24.0		-1.0					
	S•			53		1.6					
	E			57							
ROX	EPN	13	0[7]	20.5		-0.8	2.0[7]	62		3.6	3.6
	EP•			24		-2.4					
	S•			52		-1.9					
MJZ	E?	13	07	44			3.63	48			
	E		08	31							

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	H	M	S									
SEP 21	09	21	50.2	38.50S	176.38E	12 KM	SE	1.5	AVG	MAG	4.1	
		+-	0.6	0.04	0.04	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WNZ	P•	09	21	55.1		-0.6	0.26	239			
	E			57.8							
TUA	P•	09	22	02.3		-0.5	0.68	117			
KRP	IP•	09	22	05.8		-0.5	0.88	310		4.2	
CNZ	P•	09	22	06.9		-0.8	0.96	223		3.9	
	E			24.5							
GNZ	P•	09	22	14.0		0.6	1.29	97		4.7	
	I			16.7							
	E			37.5							
TNZ	P•	09	22	22.0		1.5	1.71	246		3.8	
ECZ	P•	09	22	24.0		0.4	1.89	65		4.6	
	E			56							
MNG	EPN	09	22	26.2		-0.0	2.23	198		4.1	3.7
	ESG		23	05		-0.4					
	EP•		22	26.2		-3.2					
	IPG			30.8		-4.5•					
WEL	EP•	09	22	45		1.5	3.05	204		3.8	
	ESN		23	15		2.1					

FELT KAINGAROA FOREST DISTRICT (34,41,42),MM IV

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	H	M	S									
SEP 21	17	45	45.6	40.79S	175.09E	33 KM	SE	1.8	AVG	MAG	5.1	
		+-	0.4	0.03	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	P•	17	45	54.8	U	1.1	0.34	61			
WEL	P•	17	45	58.2	U	1.2	0.56	206	5.0		
	S•		46	07		1.8					
CNZ	P•	17	46	13.7		-1.0	1.62	13			
TNZ	P•	17	46	14.8		-1.1	1.69	341		5.7	5.5
	ES•			39		0.6					
COB	PN	17	46	15.8		2.1	1.81	260			

	IP•		17.2	-0.7					
	S•		41	-1.0					
TUA	PN	17 46	23	-0.6	2.53	39		5.0	
	EP•		31	0.7					
KRP	PN	17 46	29.9	1.6	2.88	7		5.1	
	EP•		36	-0.1					
	E		47 07.6						
GNZ	PN	17 46	30.2	-1.3	3.11	48		4.8	
	E		46						
	E		50						
KAI	E	17 46	38		3.26	237	5.0		
	EP•		44	1.3					
	E		49						
	ESN		47 16	5.8•					
	I		22						
GPZ	EPN	17 46	36	0.2	3.43	211	4.9		
	ESN		47 13	-1.3					
AUC	PN	17 46	46	3.3	3.93	356		6.3	
ECZ	EPN	17 46	46.5	1.6	4.09	42		5.0	
	EP•		55	-1.9					
MJZ	EPN	17 46	54	1.0	4.69	225		5.0	
	EP•		47 03	-4.0					
	E		59						
ONE	E	17 47	04		5.04	353	4.9		
	EP•		10	-3.0					
	E		19						
	E		56						
	E		48 10						
MSZ	EPN	17 47	18.0	-0.2	6.55	231			
	I		25.0						
	E		48 41						
CIZ	PN	17 47	25.2	1.7	6.94	120			
	SN		48 37	-2.0					

FELT EXTENSIVELY WELLINGTON PROVINCE,SOUTHERN HAWKES BAY AND ABOUT COOK STRAIT.MAX. MM VI AT PARAPARAUMU (65)

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	H	M	S									
SEP 21	17	49	02.0	40.73S	175.03E	12 KM	SE	1.1	AVG	MAG	3.4	
		+-	0.4	0.02	0.03	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP•	17	49	09.0		-0.3	0.36	72			
	S•			14.5		-0.0					
WEL	P•	17	49	13		-0.2	0.59	200	3.1		3.6
	S•			22		0.6					
CNZ	E	17	49	36			1.58	15			3.6
	ES•			52		0.9					
TNZ	EP•	17	49	29		-1.8	1.62	342			
	ES•			53		0.7					

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	H	M	S									
SEP 21	18	00	33.9	40.67S	174.95E	12 KM	SE	0.8	AVG	MAG	4.1	
		+-	0.3	0.02	0.02	R						

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	P•	18	00	42.0	U	0.1	0.40	83			
	ES•			48		0.3					
WEL	P•	18	00	45.7		-0.1	0.63	193	4.0	4.5	4.6
	S•			54.5		-0.1					
CNZ	P•	18	01	01.0		-0.3	1.54	17		4.2	
TNZ	P•	18	01	03.0		1.6	1.54	343		4.3	4.2
	S•			25.7		3.7•					
COB	EP•	18	01	04		-0.7	1.74	255	4.0		
	S•			28		0.3					
KRP	EP•	18	01	22.5		-0.0	2.78	10		3.8	
	E			28.5							
	E			54							
	ES•			58		-1.0					
GNZ	E	18	01	38			3.11	51		3.9	

		E		50								
	KAI							3.24	234	3.9		
	GPZ	E		18 02 00				3.48	209	3.9		
	FELT SOUTHERN HAWKES BAY AND NORTHERN WELLINGTON,MM III-IV											
	FELT SOUTHERN HAWKES BAY AND NORTHERN WELLINGTON,MM III-IV											

	H M S									57/ 388
SEP 21	19 04 10.6	40.71S	175.02E	12 KM	SE	1.0		AV3	MA3	3.4
	+- 0.3	0.02	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNG P*	19 04 18.0		0.2	0.36	76				
	S*	23.5		0.4						
	WEL P*	19 04 21.8		-0.2	0.61	198	3.0	3.4	3.5	
	S*	31		0.5						
	CNZ EP*	19 04 37.5		-0.9	1.56	15		3.3	3.5	
	S*	58		-1.1						
	TNZ P*	19 04 39.0		-0.0	1.60	342		3.6	3.4	
	S*	05 02.0		1.7						
	COB ES*	19 05 05		-0.6	1.78	257	3.3			
	FELT MAKAKAHI (49)									

	H M S									57/ 389
SEP 21	19 15 19.0	36.21S	179.13W	361 KM	SE	1.8		AV3	MA3	4.5
	+- 2.4	0.26	0.37	12						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	ECZ E	19 16 46			2.38	231				
	ES	58		0.3						
	GNZ EP	19 16 22		-0.5	3.32	222		4.3	4.4	
	S	17 14		1.7						4.5
	TUA ES	19 17 21		-1.9	3.93	228				
	KRP P	19 16 37.0		1.7	4.60	247		4.1		
	CNZ E	19 16 38			5.17	233		3.5		
	MNG P	19 16 51.2		-0.8	6.10	222				
	ES	18 04		-1.0						
	WEL EP	19 17 01.0		-0.9	6.96	221	5.3			
	S	18 22		-0.8						
	GPZ ES	19 19 26		3.0	9.78	218	5.1			
	MJZ ES	19 19 51		-0.8	11.12	223				

	H M S									57/ 390
SEP 21	21 14 57.7	40.71S	174.99E	12 KM	SE	0.9		AV3	MA3	3.4
	+- 0.3	0.02	0.02	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNG IP*	21 15 05.2		-0.2	0.39	76				
	S*	11.0		0.1						
	WEL P*	21 15 09.2		0.2	0.60	196	3.3	3.2	3.7	
	S*	18		0.7						
	CNZ P*	21 15 25.0		-0.7	1.57	16		3.5	3.4	
	S*	46		-0.6						
	TNZ P*	21 15 25.8		-0.3	1.60	343		3.7	3.4	
	S*	49		1.7						
	COB ES*	21 15 51		-1.0	1.75	257	3.1			
	KRP E	21 16 29			2.82	9				

	H M S									57/ 391
SEP 22	11 24 01.9	40.88S	175.03E	12 KM	SE	1.2		AV3	MA3	3.7
	+- 0.5	0.03	0.03	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNG P*	11 24 09.8		-0.5	0.43	53				
	S*	16.0		-0.5						
	WEL P*	11 24 10.8		0.2	0.45	206	3.2			
	S*	17.8		0.8						
	CNZ P*	11 24 30.7		-1.8	1.73	13		3.2	3.3	
	S*	56		0.6						
	COB ES*	11 24 55		-1.1	1.75	263	2.9			
	TNZ P*	11 24 33		-0.1	1.76	343		3.5	3.5	
	ES*	57		0.5						

	KRP EP*		11 24 56				2.1	2.98	8		3.2	3.5
	E		25 38									

	H M S									57/ 389
SEP 22	21 14 24.3	40.93S	175.44E	33 KM	SE	1.0		AV3	MA3	3.5
	+- 1.1	0.05	0.06	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNG IP	21 14 32.0	D	-0.3	0.31	5				
	S	37.5		-0.6						
	WEL P	21 14 35.4		-0.8	0.62	235	3.4	3.3	3.7	
	S	46		1.2						
	CNZ P	21 14 51.8		0.5	1.73	3		3.1	3.7	
	S	15 12.5		0.9						
	TNZ P	21 14 53.2		-0.8	1.92	335		3.7	3.7	
	S	15 16.5		0.2						
	COB S	21 15 19		-0.6	2.06	265	3.7			
	KRP E	21 15 23			3.00	1			3.2	
	E	50								

	H M S									57/ 390
SEP 23	01 59 33.3	39.44S	176.61E	119 KM	SE	1.4		AV3	MA3	5.1
	+- 0.5	0.03	0.03	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TUA P	01 59 52.0		-1.3	0.76	34				
	E	02 00 02								
	CNZ P	01 59 54.2		-0.0	0.86	286				
	WNZ EP	01 59 53.6		-1.0	0.90	334		4.7	5.1	
	E	02 00 04								
	GNZ IP	01 59 59.7	D	0.1	1.36	55		5.3	5.5	
	E	02 00 15								
	MNG IP	02 00 01.8	D	1.0	1.46	216		4.8	4.9	
	I	12.0								
	KRP P	02 00 03.7		-0.2	1.73	331		5.0	4.7	
	S	23.5		-3.5						
	TNZ IP	02 00 06.0		1.9	1.75	278		5.4	4.9	
	S	29		1.6						
	ECZ P	02 00 12.0	D	0.7	2.31	42		5.6	4.9	
	ES	41		1.1						
	WEL P	02 00 12.1		0.7	2.32	217	5.2	4.6	5.3	
	S	40		-0.2						
	AUC IP	02 00 21.0		1.0	2.95	330		6.0		
	COB EP	02 00 26		0.2	3.39	240	4.8			
	S	01 06		0.3						
	KAI				5.00	230	5.2			
	GPZ EP	02 00 50		0.0	5.19	214	5.5			
	S	01 44		-5.1*						
	MJZ P	02 01 08		0.7	6.46	223				
	S	02 16		-4.1*						
	CIZ E	02 01 15.0			6.81	134				
	I	17.2								
	E	02 26								
	S	28		-0.6						
	ROX EP	02 01 30		0.7	8.09	219				
	E	02 53								
	MNW EP	02 01 43		-0.7	9.17	223				
	ES	03 23		-2.6						
	FELT CENTRAL NORTH ISLAND AND HAWKES BAY MM III-IV									

	H M S									57/ 391
SEP 26	02 46 23.6	38.04S	176.44E	196 KM	SE	1.6		AV3	MA3	4.4
	+- 1.6	0.08	0.07	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP	02 46 51.6		0.2	0.72	279		4.2		
	S	47 10.9		-2.0						
	TUA P	02 46 52.9		0.2	0.95	144		4.9	4.5	
	S	47 14.5		-0.8						
	CNZ P	02 46 57.8		1.9	1.35	211		3.5	3.4	

		ES		47	23	2.1					
	GNZ	P	02	46	56.2	0.1	1.39	116		4.8	4.1
		S		47	20.0	-1.3					
	TNZ	E	02	47	05		1.98	234		3.7	
	MNG	P	02	47	11.0	1.1	2.68	196		4.6	4.1
		ES		46		0.4					
	WEL	P	02	47	20.5	1.0	3.49	201	4.7	4.3	4.5
		S		48	04	1.2					
	GPZ	ES	02	49	06	-1.9	6.34	206	4.7		
	MJZ	ES	02	49	32	-2.2	7.46	215			

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	H	M	S											
SEP 28	16	20	12.7	38.09S	176.85E	135 KM	SE	1.5	AV3	MA3	4.3			
			+- 1.4	0.06	0.08	14								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TUA	P		16	20	34.6		0.4	0.76	162		4.7	4.5	
		ES				51		0.2						
	KRP	P		16	20	35.5		-1.2	1.05	279		3.8		
		E				52								
	GNZ	P		16	20	36.8		-0.3	1.08	121		4.3		
	CNZ	P		16	20	43.0		1.4	1.50	222		4.0	3.9	
		ES			21	10		6.3*						
	AUC	EP		16	20	47		-1.0	2.05	306		4.4		
	TNZ	EP		16	20	53.0		2.9	2.22	240		4.3	3.9	
		E			21	25								
	MNG	EP		16	20	56.0		-1.0	2.74	202		4.3	4.1	
		I			21	03.0								
		IS				30		-0.7						
	WEL	EP		16	21	08.2		0.3	3.57	206		4.3	4.4	
		E				15.5								
		ES				49		-1.0						
		E			22	05								
	COB								4.36	225	4.2			
	KAI	E		16	22	53			6.07	221	4.6			
	MJZ	E		16	23	23			7.61	217				

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	H	M	S											
SEP 28	17	22	29.2	38.36S	176.04E	171 KM	SE	1.5	AV3	MA3	3.8			
			+- 1.8	0.07	0.06	12								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	P		17	22	54.0		0.5	0.58	317		3.2		
		S			23	11		-1.2						
	CNZ	P		17	22	58.0		2.4	0.93	204		3.5		
	TUA	EP		17	22	56		-0.0	0.98	118		3.7	3.9	
		ES			23	17		0.3						
	GNZ	E		17	23	22			1.58	101			3.5	
		ES				25		-1.5						
	MNG	P		17	23	10.2		0.7	2.30	191		4.4	3.9	
		S				40.5		0.0						
	WEL	EP		17	23	19.7		0.6	3.09	198	4.0	4.3	3.9	
		ES				58		0.5						
	MJZ	ES		17	25	27		-2.3	7.02	215				

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	H	M	S											
SEP 30	03	04	39.8	40.68S	173.24E	151 KM	SE	1.6	AV3	MA3	4.1			
			+- 0.8	0.05	0.08	14								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	COB								0.56	223	4.2			
	WEL	IP		03	05	10.1		2.4	1.31	118	4.2	4.5	4.1	
		S				29.5		0.3						
	MNG	P		03	05	13.4		1.4	1.71	89		4.0	4.1	
		S				35.2		-1.5						
	TNZ	P		03	05	13.4		1.2	1.73	31		4.4	4.1	
		S				37		-0.2						
	KAI								2.30	216	4.0			
	CNZ	P		03	05	19.0		-0.1	2.31	51		4.2	4.1	
		S				49		-0.3						

	GPZ	EP	03	05	30	1.6	3.04	188	4.6		
		S		06	04	-1.7					
	KRP	EP	03	05	30	-1.5	3.28	34		3.7	
		E		06	04						
	MJZ	EP	03	05	41	1.6	3.89	211		3.4	3.5
		S		06	24.3	-1.0					
	GNZ	P	03	05	42	-1.8	4.22	63		4.3	
	MSZ	P	03	06	03	1.1	5.59	223		4.1	3.6
		ES		07	04	-1.6					

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	H	M	S											
OCT 01	04	52	20.3	39.13S	177.66E	33 KM	SE	2.1	AV3	MA3	4.4			
			+- 0.6	0.03	0.04	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TUA	IPN		04	52	31.9	U	1.4	0.51	309				
	GNZ	IPN		04	52	31.2	D	-0.0	0.56	30		5.1		
	WNZ	EP*		04	52	45		0.8	1.31	292		4.6	4.7	
		I				51								
		ES*				59		-2.9						
		E			53	12								
	ECZ	PN		04	52	45.4		-0.0	1.60	26		4.6	4.7	
		SN			53	00		-4.3						
	CNZ	E(PN)		04	52	49		3.0	1.64	267		4.8		
		IP*				51		1.2						
		I				57								
	KRP	PN		04	52	52.4		0.7	2.05	305				
		EP*				55		-1.8						
		I			53	00								
		I				03								
		SN				17.5		2.1						
	MNG	IPN		04	52	54.2	D	-0.0	2.24	228		4.2	4.2	
		E			53	12.5								
		SN				16		-3.9						
		ES*				29		-0.5						
	TNZ	PN		04	53	01		2.5	2.55	268		4.2	4.1	
		E				14								
		E				28								
		E				33								
	WEL	PN		04	53	05		-0.9	3.09	225	4.2	3.9	4.3	
		EP*				14		-0.4						
		E				31.5								
		ESN				40		-0.6						
		EL			54	35								
	AUC	(P*)		04	53	20		3.4	3.21	314				
		ESN				42		-1.7						
	COB								4.25	241	4.3			
	KAI								5.83	232	4.4			
	GPZ	EP*		04	54	04		1.2	5.92	218	4.4			
		E				45								
		SN				48		-1.1						
	CIZ	PN		04	53	52.2		0.3	6.48	140				
		E			54	03								
		E				59								
		SN			55	03		0.4						
	MJZ	PN		04	54	01.5		-0.8	7.25	226				
		EP*				38		12.4*						
		SN			55	19		-2.1						
	MSZ	PN?		04	54	30		2.7	9.13	230				
		P*				50		-7.7*						
		ESN			56	04		-1.9						
		E				24								
	MNW	SN		04	56	29		3.5	9.95	225				
		E				47								

FELT WAIROA (53) MM IV

	H	M	S														67/ 39
OCT 01	09	53	09.5	40.90S	175.95E	12 KM	SE	1.3				AV3	MA3	3.1			
		+-	1.2	0.03	0.06	R											
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
	MNG		IPG		09	53	17.5	D	-1.4	0.45	308						
			SG				24		-1.1								
	WEL		P*		09	53	26.5		-0.8	0.97	246	2.7		3.6		3.1	
			S*				41.5		1.1								
	CNZ		P*		09	53	41		0.9	1.72	350			2.8		2.4	
			PG				43		-1.4								
			SG			54	08		0.4								
	TNZ		P*		09	53	47.5		1.2	2.09	324					3.1	
			SG			54	21		1.0								
	FELT PURUNUI (66)																
	H	M	S														67/ 39
OCT 01	21	16	48.1	38.29S	176.23E	168 KM	SE	1.2				AV3	MA3	4.1			
		+-	0.8	0.04	0.03	6											
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
	KRP		IP		21	17	12.0	UNW	-0.4	0.66	303						
			IS				29.5		-1.7								
	TUA		IP		21	17	14.4	U	0.6	0.88	126			4.2		4.1	
			E				29										
			S				34		0.3								
			E				35										
	CNZ		P		21	17	15.9	D	0.7	1.05	210			4.1		3.9	
			S				38		2.0								
			E				44										
	GNZ		EP		21	17	19.0		0.2	1.45	105			4.0		4.1	
			E				39.5										
			S				42		-0.4								
	TNZ		P		21	17	23.4	D	2.0	1.70	238			3.6		3.8	
			E				41										
	ECZ		P		21	17	24	D	0.2	1.92	73			4.1		4.1	
			S				51		-0.3								
	MNG		IP		21	17	29.1	U	-0.2	2.40	194			4.6		4.1	
			E				52.5										
			S				59.5		-1.5								
	WEL		P		21	17	38.3	U	-1.0	3.20	200	4.4		4.0		4.1	
			S			18	18		-0.7								
	COB									3.88	223	3.8					
	GPZ		ES		21	19	19		-6.0*	6.04	206	4.2					
	MJZ		S		21	19	45		-6.6*	7.16	216						
	CIZ		E		21	20	06			7.84	138						
			S				08		0.2								
			E				15										
	H	M	S														67/ 39
OCT 02	11	28	14.4	33.00S	178.60W	33 KM	SE	ND									
			R	R	R	R											
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
	ECZ		P		11	29	35		5.8*	5.23	206						
			ES			30	46		19.2*								
	GNZ		P		11	29	46		2.9*	6.26	205						
			E			30	12										
			ES			31	09		17.4*								
	TUA		EP		11	29	52		2.4*	6.74	210						
			S			31	11		7.9*								
			E				14										
	KRP		P		11	29	59		7.8*	6.86	223						
			E			30	25.5										
	MNG		P		11	30	22		2.8*	8.96	210						
			ES			32	01		4.9*								
	WEL		ES		11	32	20		3.6*	9.82	211						
			E				23										

	H	M	S														67/ 39
OCT 02	21	56	36.2	39.14S	174.96E	215 KM	SE	0.8				AV3	MA3	3.7			
		+-	0.6	0.03	0.03	4											
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
	TNZ		P		21	57	05.0		0.0	0.45	264						
			ES				26.5		-0.7								
			E				29.5										
	CNZ		IP		21	57	06.0	U	1.0	0.46	97						
			S				28		0.8								
	KRP		P		21	57	10		0.2	1.30	21						
			S				35		-0.8								
	MNG		IP		21	57	12.0	U	0.3	1.53	165			4.2		4.2	
			E				35.5										
			S				38.5		-0.6								
	TUA		P		21	57	14		0.4	1.74	80			3.9		3.5	
			E				48										
	WEL		E		21	57	47.5			2.15	184	3.4				3.7	
			S				49.5		-0.1								
	GNZ		P		21	57	21		0.3	2.44	79			3.8		3.3	
			S				54.5		-0.7								
	COB		ES		21	57	59		0.9	2.59	221						
	MJZ		EP		21	58	02		-1.0	5.90	213					3.2	
			E			59	03										
			S				05		-5.7*								
	H	M	S														67/ 40
OCT 03	19	12	13.6	44.69S	167.72E	12 KM	SE	1.9				AV3	MA3	4.8			
		+-	0.8	0.02	0.05	R											
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S		
	MSZ		IPG		19	12	18.5		1.3	0.14	82						
	MNW		P*		19	12	33.1	D	-0.3	1.09	184			4.9			
			S*				49		0.9								
	ROX		IP*		19	12	39.6	D	1.4	1.38	125			5.2			
			S*				58		1.4								
			ISG			13	00.5		0.4								
	MJZ		IP*		19	12	49.0	UN	-1.5	2.09	71			4.7		4.7	
			I				49.5										
			E				58										
			EPG				54.5		-1.5								
			ES*			13	19		0.8								
	WPZ		EP*		19	12	49		-2.1	2.12	159			4.8		4.7	
			EPG				56		-0.6								
			ES*			13	19		-0.1								
	KAI		PN		19	13	08		1.8	3.44	52	4.6					
			PG				21		-2.3								
			SN				46		0.1								
			S*			14	00		1.2								
			SG				07		-2.7								
	COB		EPN		19	13	28.5		-0.7	5.15	47	4.9					
			E			14	21										
			SN				27		-0.1								
			E				33										
			ESG			15	05		-2.2								
	WEL		E(PN)		19	13	44		1.0	6.19	59	4.6					
			E				47										
			SN			14	53		1.2								
			E			15	02										
			ESG				41		-1.1								
	MNG		PN		19	13	53		-1.3	7.02	57						
			I				59										
			E			14	06										
			SN			15	11		-0.7								
			E				14										
	TNZ		EPN		19	14	00		0.6	7.41	44						
			E				07										
			ESN			15	20		-0.9								

		S*		44	-13.9*						
		SG		16 28	4.7						
	CNZ	E(PN)	19 14 07		-0.3	8.01	49				
		E		20							
		ESN		15 38	2.9						
		E		51							
	KRP	PN	19 14 21		1.1	8.96	44				
		SN		15 58	0.2						
		E		16 07							
	TUA	E	19 14 31.5			9.17	53				
		P*		46	-5.8						
		E		16 13							
	ONE	EPN	19 14 39		2.2	10.25	32	4.8			
		SN		16 29	1.0						

FELT MT ASPIRING STN (113) MM III

	H	M	S									67/ 401
OCT 03	19	41	08.2	44.63S	167.56E	12 KM	SE	1.4	AVG	MAG		3.4
	+-		1.1	0.04	0.05	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IPG		19	41 14.8		1.0	0.26	99			
		SG			19.5		1.9					
	MNW	P*		19	41 29		0.1	1.15	178		3.6	3.8
		PG			31		-0.5					
		S*			45		0.6					
	ROX	P*		19	41 36.1	D	1.1	1.50	125		3.4	3.9
		S*			55		-0.0					
		SG			56.7		-2.3					
	MJZ	P*		19	41 45.5		-1.1	2.16	74		2.8	2.9
		PG			51		-1.4					
		E			54							
		S*		42	16		0.5					
		SG			18		-3.9*					

	H	M	S									67/ 402
OCT 04	08	20	04.0	50.00S	164.00E	33 KM	SE	ND	AVG	MAG		4.2
			R	R	R	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	P		08	21 18.5		4.5*	4.87	31		4.9	4.8
		I			19.6							
		ES			22 17.5		9.7*					
	ROX	P		08	21 31.5		5.4*	5.77	40		4.2	
	MSZ	P		08	21 34		5.4*	5.96	28		4.1	3.8
		ES			22 43		9.1*					
	MJZ	P		08	21 51		2.1*	7.46	39			
		E			22 03.5							
		E			11							
		ES			23 12		2.1*					
	MNG	P		08	23 04		10.5*	12.37	45			

	H	M	S									67/ 403
OCT 05	03	22	54.7	38.22S	176.36E	242 KM	SE	1.2	AVG	MAG		4.7
	+-		0.8	0.05	0.05	6						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP		03	23 25.5	UW	-2.1	0.71	294			
		IS			48		-5.1*					
	TUA	P		03	23 29		0.8	0.86	134		4.5	4.8
		E			33							
		E			49.5							
		S			52.5		-1.9					
	CNZ	P		03	23 30.6	D	0.4	1.17	213		4.3	3.9
		S			24 01.5		3.9*					
	GNZ	IP		03	23 32.5	D	0.9	1.37	109		5.0	5.2
		E			43							
		E			56							
		I			58							
		S		24	00		-0.1					

	ECZ	P	03 23 34.8	D	-0.3	1.81	74		5.3	4.9
		S	24 05.5		-0.7					
	TNZ	P	03 23 36.5		1.3	1.83	237		3.8	3.6
		S	24 08		1.4					
		E	16							
		E	25							
	MNG	IP	03 23 43.1	U	1.5	2.49	196		4.9	5.0
		E	24 11.5							
		E	13							
		S	18.5		0.4					
	WEL	P	03 23 52		1.4	3.30	201	5.1	4.2	5.0
		S	24 35		1.1					
	COB	S	03 24 48		-0.5	4.01	223	4.9		
	KAI	ES	03 25 25		-1.4	5.73	220	4.8		
	GPZ	E	03 24 27			6.15	206	5.1		
		S	25 35		-1.0					
	MJZ	P	03 24 40		0.4	7.28	216			
		E	42							
		E	25 58.5							
		S	26 00.5		-1.1					
	MSZ	EP	03 25 02		0.0	9.04	222			
		E	04							
		S	26 41		-0.7					

	H	M	S									67/ 404
OCT 05	05	03	17.9	43.65S	169.54E	12 KM	SE	1.5	AVG	MAG		3.2
	+-		1.2	0.07	0.03	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	MJZ	IPG		05	03 32.7		-0.5	0.75	117		3.0	2.6
		SG			42		-1.5					
		E			47							
	MSZ	EP*		05	03 45.5		0.0	1.55	228		3.3	3.9
		EPG			49		-0.3					
		E		04	06							
		S*			07.5		1.4					
		ISG			10		-0.2					
	ROX	P*		05	03 51		0.7	1.83	185		3.5	3.6
		PG			57		2.1					
		S*		04	15.5		1.0					
	GPZ	E		05	04 07			2.25	92	2.8		
		ESG			35		1.0					
	MNW	EPG		05	04 06.5		-2.6	2.53	212		3.5	3.0
		ESG			42		-1.2					

FELT MAHITAHI (104) MM IV

	H	M	S									67/ 405
OCT 05	15	31	31.3	38.99S	174.01E	12 KM	SE	1.7	AVG	MAG		3.8
	+-		0.4	0.02	0.02	R						
				H	M S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	IPG		15	31 39.9		1.2	0.35	124			
		E			43.5							
		SG			46.2		2.6					
	CNZ	P*		15	31 54.1		0.9	1.22	100		3.8	4.3
		SG			32 13.5		1.1					
	KRP	P*		15	31 59.5	DWS	-0.4	1.61	49			
		S*			32 21		-0.2					
		SG			25		-0.6					
		E			30							
	MNG	P*		15	32 06.5	U	0.3	1.98	145		4.4	4.2
		I			07.5							
		S*			34		1.6					
	AUC	E(PG)		15	32 15		-1.1	2.22	16			
		ESG			52		6.0*					
		E		33	05							
	COB	EP*		15	32 11		-0.8	2.31	205	3.4		
		EPG			15		-3.0					
		ESN			35		-0.9					

		S•			40.5	-1.8					
	WEL	P•		15 32	12.5	-0.3	2.36	166	3.7	3.9	4.1
		EPG			18	-1.1					
		E			43						
		S•			45	1.1					
		ESG			54	3.0					
	TUA	EP•		15 32	15	0.5	2.46	87		3.8	3.4
		PG			19	-2.1					
		S•			44	-2.9					
		SG			51	-3.3					
	GNZ	P•?		15 32	26	-0.4	3.16	85			3.8
		PG			36	0.9					
		E			42						
	ONE	E(PG)		15 32	37	0.5	3.23	5			
		SN		33	00	1.8					
		S•			10	0.2					
		ESG			22	2.0					
	GPZ	SN		15 33	34	-2.5	4.81	192	3.8		
		E			42						
	MJZ	PN		15 32	56	2.6	5.65	207		3.7	3.2
		P•		33	00	-9.1•					
		SN			56	-0.7					
		E		34	04						
	MSZ	E		15 33	20		7.27	217			
		ESN		34	37	1.8					
		E			41						

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	H	M	S										
OCT 05	22	45	30.4	36.45S		178.24E	278 KM		SE	1.7	AV3	MA3	4.1
			+_ 1.7	0.13		0.16	12						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	EP		22	46	10		-0.3	1.26	169		3.9	4.3
		E				11							
		E				32.5							
		S				38		-3.1					
	GNZ	P		22	46	18.2		1.0	2.19	185		4.5	4.4
		E				49							
		S				56.5		2.8					
	TUA	P		22	46	21.9		1.7	2.50	200		4.4	4.3
		E				52.5							
		E				55.5							
		S				59.5		0.6					
	KRP	P		22	46	20		-1.3	2.61	235			
	CNZ	P		22	46	31		0.8	3.47	217		3.1	3.3
		E			47	03							
		S				17.5		0.8					
	MNG	P		22	46	43.8		-0.2	4.69	207		4.0	4.0
		E				59							
		E			47	34.5							
		S				39.9		-1.6					
	WEL	E		22	47	58.5			5.53	208	4.6		4.4
		S				59.5		-0.1					
	COB	ES		22	48	17		0.2	6.32	221			
	GPZ	ES		22	49	02		-1.3	8.41	209	4.7		
	MJZ	S		22	49	28		-1.8	9.59	216			
	MSZ	S		22	50	11		1.5	11.35	221			

57/ 407

	H	M	S										
OCT 06	19	07	08.3	39.66S		174.72E	141 KM		SE	1.3	AV3	MA3	4.0
			+_ 0.6	0.04		0.04	7						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ								0.54	331		4.3	3.9
	CNZ	IP		19	07	31.8	U	1.1	0.79	55			
		S				47		-0.9					
		E				51							
	MNG	IP		19	07	35.3	U	1.7	1.12	149		4.6	4.2
		E				46							

		S			52	-1.0					
	WEL	IP		19 07	41.0	U 2.1	1.62	179	3.7	4.0	4.3
		S		08	02.9	0.6					
	KRP	P		19 07	42.3	0.9	1.85	21			
		E			52						
		E		08	05						
		S			06	-0.8					
	TUA	P		19 07	45	0.9	2.07	67		3.5	3.4
		E		08	06						
		ES			10	-1.5					
	COB	S		19 08	12.5	0.8	2.08	226	4.4		
	GNZ	P		19 07	52.5	-0.6	2.76	69		4.2	3.7
		S		08	26.5	-0.7					
	ECZ	P		19 08	04	0.3	3.58	58		4.5	3.7
		ES			46.5	0.4					
	KAI	S		19 08	51	-0.3	3.80	220	3.9		
	GPZ	S		19 09	00	-3.6•	4.32	200	4.3		
	MJZ	E		19 08	36		5.36	215		3.1	3.2
		E		09	05						
		S			26	-2.5					
	MSZ	ES		19 10	10	-0.6	7.11	223			

57/ 408

	H	M	S										
OCT 07	03	08	03.6	48.93S		163.60E	33 KM		SE	2.4	AV3	MA3	4.0
			+_ 4.4	0.44		0.38	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNW	P		03	09	03		-1.1	4.17	42		4.1	4.1
		S				50		-0.4					
	MSZ	EP		03	09	19		1.1	5.19	36		3.9	3.8
		E				22							
		ES			10	16		0.9					
	ROX	ES		03	10	18		2.5	5.21	51			3.9
	MJZ	E		03	09	42			6.85	46			
		ES			10	52		-2.9					

57/ 409

	H	M	S										
OCT 07	04	00	04.3	39.88S		175.00E	33 KM		SE	1.9	AV3	MA3	4.0
			+_ 0.4	0.03		0.04	R						
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IPN		04	00	18.1	U	-0.4	0.80	32			
		P•				20		0.3					
		SN				29		0.1					
	MNG	IPN		04	00	18.4	U	-0.5	0.83	154			
		SN				30		0.3					
	TNZ								0.84	325		4.0	4.1
	WEL	PN		04	00	27.4		0.4	1.42	187	3.7	4.0	4.5
		EP•				31		1.0					
		E				44.5							
		SN				46		1.9					
		S•				51		1.9					
	TUA	PN		04	00	35.5		0.8	1.98	58		4.5	4.6
		SN				58.5		0.9					
		S•			01	02		-3.8					
	KRP	PN		04	00	34.2		-0.7	1.99	12			
		E				46							
		E				55							
		SN				59		1.1					
		ES•			01	08		1.8					
	COB	P•		04	00	40		-1.7	2.11	234	4.0		
		S•			01	08.5		-1.2					
	GNZ	E?		04	00	40			2.65	63		4.1	4.0
		EP•				54		3.1					
		E			01	06							
		E				25							
		E				31.5							
	ECZ	E(P•)		04	01	03		-2.9	3.53	53		4.0	4.2
		ES•				52		-0.1					

STA	PHASE	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	SN	04	01	44		2.3	3.79	224	3.8		
	E			48							
GPZ	SN	04	01	47		-4.8	4.20	204	4.0		
MJZ	EPN	04	01	21		0.7	5.32	218		3.3	3.3
	E			28							
	SN		02	19		0.2					
	E			32							
MSZ	E	04	01	54			7.11	225			
	ESN		03	01		-0.6					
	E			11							
CIZ	ESN	04	03	01.5		-9.4•	7.49	126			

H M S 57/ 41
OCT 08 11 30 50.6 ±0.8 38.76S 0.04 175.16E 0.05 229 KM 6 SE 0.9 AVG MAG 3.7

STA	PHASE	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	IP	11	31	22.1		0.9	0.53	145		3.6	3.1
	S			46.5		1.5					
KRP	P	11	31	23.0	D	0.1	0.89	20			
	S			47		-1.0					
MNG	IP	11	31	31.1	U	0.7	1.87	173		4.2	4.1
	E			56.5							
	S		32	00.5		-0.6					
GNZ	P	11	31	33.5		-0.5	2.24	88		3.4	3.5
	E		32	05							
	ES			07		-0.6					
WEL	P	11	31	38.0		0.9	2.54	187	3.6	3.7	3.8
	S		32	13		-0.2					
ECZ	P	11	31	40.5		-0.3	2.87	69		4.3	
COB	S	11	32	21		-0.9	2.98	218			
MJZ	E	11	32	24			6'30	213			
	S		33	30		-4.7•					

H M S 57/ 41
OCT 08 20 51 12.4 ±1.0 37.78S 0.04 178.66E 0.05 12 KM R SE 2.5 AVG MAG 4.4

STA	PHASE	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	IPG	20	51	16.0	U	0.3	0.12	313			
GNZ	P•	20	51	30.3	D	-0.3	1.00	210		5.1	5.1
	PG			36		3.3					
	S•			42.5		-1.6					
TUA	PN	20	51	38.5		-1.1	1.57	229		4.8	4.8
	P•			43		2.6					
	IPG			46		1.8					
	SN			58		-1.7					
	E		52	15							
WNZ	PG	20	51	55		-1.7	2.19	246		4.5	4.4
	E		52	02							
	SG			28		1.8					
	E			43							
KRP	PN	20	51	51.4	E	-0.4	2.48	266			
	P•			54.5		-1.4					
	E			57							
	E		52	14							
	ESN			25		3.8					
CNZ	PN	20	51	56		-0.7	2.82	239		4.4	3.9
	P•		52	05.5		3.7					
	PG			10		0.4					
	ES•			40		1.0					
AUC	IPN	20	52	04.0	D	2.0	3.23	285			
	IP•			07.5		-1.2					
TNZ	EPN	20	52	08.5		0.9	3.64	246		4.2	3.8
	P•			14		-1.8					
	E			32							
	E			39							
	ESN			53		3.6					
MNG	PN	20	52	06.2		-3.0	3.76	220		4.2	4.1

STA	PHASE	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	P•			14.5		-3.3					
	EPG			27		-1.5					
	ESN			52		-0.3					
	S•		53	06		-1.1					
ONE	EPN	20	52	13		0.7	3.99	299	3.9		
	P•			17.5		-4.2					
	SN			54		-3.8					
	ES•		53	06		-7.9•					
	E			17							
WEL	EP•	20	52	37		4.5	4.62	219	4.7	4.2	4.6
	EPG			48		2.2					
	SN		53	10		-3.0					
	EL		54	15							
CRZ	PN	20	52	40.5	D	2.8	5.88	303		4.5	
	E		53	52							
CIZ	PN	20	52	54.2		-0.6	7.15	151			
	E			57							
	E		54	10.5							
	SN			14.5		0.9					
KAI	ESN	20	54	19		1.8	7.30	227	4.4		
	E			26							
GPZ	SN	20	54	15		-6.1•	7.47	216	4.9		
	E			19							
MJZ	EPN	20	53	14.5		-1.7	8.77	222			
	E			21							
	E			26							
	P•			46.5		2.9					
	SN		54	48.5		-3.6					
ROX	E	20	53	46			10.39	219			
	SN		55	27.5		-2.6					
	E			45							
MSZ	PN	20	53	44		3.5	10.62	226			
	SN		55	32		-3.5					
MNW	SN	20	55	55		-0.4	11.47	222			

H M S 57/ 412
OCT 08 20 57 13.8 ±1.0 37.75S 0.05 178.64E 0.06 12 KM R SE 2.1 AVG MAG 3.9

STA	PHASE	H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PG	20	57	17.5		0.8	0.09	306			
GNZ	P•	20	57	32.0		-0.3	1.02	208		4.3	4.3
	SG			49		0.7					
TUA	EP•	20	57	45		3.1	1.58	228		4.1	4.1
	PG			48		2.2					
	SN		58	01.5		0.1					
	S•			06		3.0					
	E			16							
KRP	PN	20	57	53		-0.0	2.46	265			
	PG		58	01		-2.7					
CNZ	PN	20	57	57.5		-0.7	2.83	238		3.7	
	PG		58	09		-2.0					
AUC	EPN	20	58	05		1.8	3.21	285			
TNZ	EP•	20	58	18		0.8	3.64	245		3.6	
MNG	PN	20	58	07.5		-3.3	3.77	220		3.4	3.3
	P•			14		-5.5•					
	EPG			31		0.9					
	ESN			54		-0.0					
ONE	P•	20	58	20		-2.7	3.96	299			
WEL	E	20	59	11			4.63	219	4.1		3.7
	SN			14		-0.8					
CRZ	PN	20	58	42		3.3	5.85	303		3.8	
	E		59	53.5							
CIZ	PN	20	58	56.2		-0.4	7.18	151			
	E			59							
	E	21	00	13							
	SN			16		0.2					
MJZ	E	20	59	20			8.78	222			

		SN	21 00 50			-3.8							
	H M S												67/ 413
OCT 08	21 39 14.9		37.81S	178.73E		12 KM	SE	3.0		AVG	WAG		4.1
	+- 1.2		0.05	0.07		R							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S	
	ECZ	IPG	21 39 19.4		U	0.1	0.19	308					
		SG	25			2.8							
	GNZ	IP•	21 39 34.1		U	0.9	1.00	214			4.5	4.6	
		PG	39.5			4.1							
		S•	44			-2.8							
	TUA	EPN	21 39 41.5			-1.0	1.59	231			4.4	4.3	
		EP•	46			2.7							
		PG	49.5			2.2							
		E	56										
		E	40 18										
	WNZ	E	21 40 47				2.23	248					4.1
	KRP	PN	21 39 55			-0.2	2.53	266					
		P•	57.5			-1.8							
		EPG	40 06			-0.2							
		SN	27			1.6							
		ESG	46			5.7							
	CNZ	PN	21 39 59.5			-0.2	2.86	240			4.0	3.8	
		EP•	40 09			4.1							
		PG	12			-0.8							
		S•	44			1.5							
	AUC	PN	21 40 07			1.6	3.29	286					
		E	10										
	TNZ	E	21 40 13				3.68	247			3.9		
		P•	18			-1.0							
		E	23										
	MNG	PN	21 40 09.0			-2.9	3.77	221			3.8	3.7	
		P•	17			-3.6							
		EPG	32			0.7							
		SN	56			0.8							
		S•	41 09			-1.0							
	ONE	EPN	21 40 16			0.3	4.05	299		3.6			
		P•	21			-4.4							
		SN	57			-4.9							
		S•	41 09			-9.3•							
	WEL	SN	21 41 14			-1.9	4.63	220		4.4			4.2
		EL	42 18										
	CIZ	PN	21 40 58.0			1.4	7.10	151					
		E	41 01										
		E	42 14										
		SN	18			3.1							
	KAI	ESN	21 42 23			2.8	7.32	228					
	GPZ	ESN	21 42 19			-4.9	7.48	216					
		E	22										
	MJZ	EPN	21 41 18			-0.9	8.79	223					
		E	25										
		SN	42 51			-4.1							
	MSZ	E	21 41 57				10.64	226					
		E	43 28.5										
		ESN	33.5			-5.0							
		E	42										
	MNW	SN	21 44 03.5			5.2	11.49	223					
	H M S												67/ 414
OCT 10	12 09 02.0		38.02S	176.89E		12 KM	SE	1.6		AVG	WAG		4.1
	+- 0.5		0.03	0.02		R							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S	
	TUA	IPG	12 09 18.4			-0.2	0.81	166			4.7	4.8	
		SG	30			0.4							
		E	32										
	WNZ	E	12 09 24				0.87	225			3.7		
	KRP	PG	12 09 24.0		D	0.1	1.08	275					

	I		25.2									
	SG		41	2.6								
	I		42									
GNZ	IPG	12 09	24.4	U	0.3	1.08	125			5.3	4.6	
	E		47									
ECZ	PG	12 09	29		-0.4	1.35	77			4.7	4.4	
	E		31									
	SG		49	1.4								
CNZ	IPG	12 09	33.0	D	-1.0	1.58	221			3.6	3.7	
	E		35.5									
	S•		51		-0.2							
	E	10	05									
AUC	E	12 09	49			2.04	304					
	SG	10	10.5		-0.5							
TNZ	PG	12 09	46		-2.3	2.29	239			3.6	3.3	
	E		54									
	E	10	31									
MNG	P•	12 09	48.5		-2.8	2.82	202			3.9	3.7	
	PG		58		-1.0							
	S•	10	28		-0.3							
	SG		33		-4.0•							
WEL	E(PG)	12 10	15		-0.9	3.65	206		3.8	3.7	3.8	
	SN		41.5	2.2								
	E		46									
	S•		56	2.6								
	SG	11	07	1.9								
COB	E	12 10	45			4.44	225					
	E	11	07									
	SG		30		-1.7							
GPZ	ESN	12 11	47		-1.2	6.52	208		4.2			
MJZ	E	12 11	05			7.69	217					
	SN	12	17.5	1.5								
CIZ	E	12 10	58.5			7.72	142					
	SN	12	16		-0.7							
	E		18									

FELT EASTERN BAY OF PLENTY MM IV

	H M S												67/ 415
OCT 10	23 31 10.9		34.85S	179.90E		33 KM	SE	2.7		AVG	WAG		4.0
	+- 2.3		0.09	0.18		R							
			H M S		DIR	RES	DIST	AZ		W-A	W P	W S	
	ECZ	P•	23 32 02			-2.3	3.05	201			4.6	4.2	
		ESN	34			3.7							
		S•	45			0.7							
	GNZ	EP•	23 32 20			-2.0	4.08	201			4.1	4.2	
		SN	57			1.5							
		ES•	33 16			0.6							
		E	30										
	TUA	PN	23 32 17			0.8	4.53	208			3.9	4.1	
		SN	33 10			3.7							
		E	18										
	KRP	EPN	23 32 21			2.8	4.67	228					
		ESN	33 12.5			2.7							
	CNZ	PN	23 32 31			0.7	5.57	217			3.8	3.4	
		E	42										
		E	33 48										
		ES•	34 00			-0.1							
	CRZ	PN	23 32 34.5			-1.2	5.97	272			4.1		
		E	43										
	MNG	PN	23 32 44			-2.1	6.74	210					
		P•	33 00			-7.6•							
		SN	58.5			-1.1							
		S•	34 30			-5.3							
		E	37										
	WEL	SN	23 34 17			-3.0	7.60	211					
	MJZ	E	23 35 51				11.68	216					

	H M S														67/ 416
OCT 11	05 56 26.9	37.64S	176.48E	243 KM	SE 0.7							AVG	MAG		3.9
	+- 0.7	0.04	0.02	5											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
KRP	P	05 57 00.0			-0.3	0.80	249								
	S		27		0.7										
TUA	P	05 57 03			-0.2	1.28	156		4.1						
GNZ	IP	05 57 04.9		U	-0.5	1.57	130		4.3	4.2					
	E		32.5												
	S		35		-0.1										
ECZ	E(P)	05 57 07			1.1	1.64	92		3.9	3.8					
	ES		35		-1.1										
CNZ	IP	05 57 07.0		U	0.4	1.72	205		3.2	2.8					
	E		33.5												
	E		46												
TNZ	EP?	05 57 12			0.5	2.26	226		3.5						
	E		14												
MNG	IP	05 57 19.7		U	-0.4	3.07	194		4.6	3.8					
	S		58 02		0.5										
WEL	P	05 57 28.8		U	-0.6	3.87	200	4.0	4.1	3.8					
	S		58 18		0.0										
	E		19												
GPZ	S	05 59 20			-0.9	6.71	205	4.4							
MJZ	S	05 59 42			-3.8*	7.81	214								
CIZ	ES	05 59 56			0.9	8.22	142								
	H M S														67/ 417
OCT 11	15 32 03.1	45.02S	167.86E	12 KM	SE 1.6							AVG	MAG		4.7
	+- 0.6	0.02	0.04	R											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
MSZ	IPG	15 32 12.5		U	2.0	0.35	7								
MNW	IPG	15 32 19.1		D	0.1	0.78	192								
	SG		30		0.3										
ROX	IPG	15 32 25.9		D	-0.1	1.13	115		5.0	5.1					
	E		34.5												
	E		42												
	SG		43		1.7										
WPZ	P*	15 32 33.5			-1.2	1.78	157		4.4	4.1					
	EPG		40.5		1.3										
	S*		56.5		-1.9										
HJZ	PN	15 32 37.5		DS	-0.2	2.13	62		4.6	4.1					
	PG		48		1.8										
	SN		33 03.5		0.1										
KAI	E	15 33 02				3.58	47	4.2							
	E		10												
	ES N		39		0.4										
	E		43												
GPZ	PN	15 32 57.8			-1.0	3.68	71	4.7							
	P*		33 06		-1.1										
	PG		18		0.5										
	SN		41		-0.0										
	E		46												
COB	PN	15 33 19			-1.7	5.31	44	5.2							
	SN		34 17.5		-2.8										
WEL	PN	15 33 34			0.3	6.28	56	4.7							
	E		39												
	SN		34 41		-2.5										
	E		51												
MNG	PN	15 33 43			-2.0	7.12	55								
	E		50												
	E		35 01												
	SN		04		0.4										
	E		14												
TNZ	PN	15 33 51.5			0.4	7.58	42								
	SN		35 13		-1.4										
	E		16												

	E		18						
CNZ	PN	15 34 01.0		2.3	8.15	47			
	E		11						
	SN	35 28		-0.0					
	E		36						
	E		49						
KRP	EPN	15 34 10		-1.6	9.13	42			
	E		24						
	SN	35 50.5		-0.8					
	E		36 06						
	E		37 04						
TUA	E(PN)	15 34 17.5		3.7	9.30	51			
	E		24						
	E		34						
	E	35 53							
	SN		58	2.8					
GNZ	SN	15 36 10		0.6	9.90	54			
ONE	E	15 34 33			10.47	30	5.2		
	SN		36 22	-0.8					
CRZ	PN	15 34 39		0.3	11.20	21			
	E		48						
	SN	36 34		-5.7*					
	E		39						

FELT AWARUA (154) MM IV

	H M S														67/ 418
OCT 11	18 06 03.3	38.34S	175.89E	199 KM	SE 1.3							AVG	MAG		3.8
	+- 0.9	0.05	0.05	7											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
KRP	IP	18 06 29.9		U	-0.6	0.50	326								
	S		49.5		-1.8										
CNZ	P	18 06 33.8		D	1.3	0.90	197		3.2	3.1					
	S		56		1.0										
	E		07 03												
TUA	P	18 06 34.4		D	0.6	1.09	116		4.4	4.3					
	I		36.1												
	S		57		-0.4										
	E		07 01												
TNZ	P	18 06 39			2.3	1.45	234		3.6	3.0					
	ES		07 08		5.4*										
GNZ	P	18 06 38.5			-0.6	1.70	101		3.8	3.9					
	E		07 04.5												
	ES		06		-0.7										
	E		29												
ECZ	E	18 07 15				2.19	74			3.9					
	S		16		0.4										
	E		26												
MNG	IP	18 06 46.3		D	1.0	2.30	188		3.9	4.3					
	S		07 17		-0.6										
WEL	P	18 06 55			0.8	3.07	196	3.9	3.5	3.9					
	S		07 34		0.5										
GPZ	S	18 08 35			-2.1	5.89	204	4.2							
MSZ	P	18 08 05.5		D	-1.1	8.70	221								

	H M S														67/ 419
OCT 11	20 44 30.5	41.13S	174.13E	12 KM	SE 2.2							AVG	MAG		3.5
	+- 0.5	0.03	0.03	R											
		H M S		DIR	RES	DIST	AZ	W-A	W P	W S					
WEL	IPG	20 44 42.0		D	1.2	0.50	108	4.0	3.8	4.6					
	E		45												
	SG		48.8		1.1										
COB	PG	20 44 54.5			2.5	1.06	272	3.7							
	SG		45 10.6		4.3										
MNG	IP*	20 44 51.9		D	0.8	1.14	64		3.8	3.7					
	PG		55		1.3										
	S*		45 06.5		0.0										
TNZ	PG	20 45 09			-1.0	1.95	6		3.2	3.4					

		E			18						
		ES•			28	-2.8					
		SG			36	-0.4					
		E			54						
	CNZ	P•	20	45	09.5	0.1	2.21	30		3.7	3.7
		PG			16	0.7					
		E			23						
		S•			38	-0.6					
	KAI	ESN	20	45	39	0.0	2.47	235	2.9		
	GPZ	SN	20	45	40	-7.2•	2.79	203	3.4		
	KRP	EP•	20	45	26	-3.4	3.38	19			
		PG			41	2.1					
		E			49						
		ES•		46	06	-7.8•					
		SG			25	0.5					
	MJZ	EPN	20	45	30	0.4	3.93	222		2.9	2.7
		SN		46	10.5	-4.0					
	MSZ	SN	20	46	56	-2.8	5.77	230			3.2

FELT MANAROA(78) MM IV AND WELLINGTON

	H	M	S										57/ 420
OCT 12	12	27	25.9	39.80S	174.69E	12 KM	SE	3.1		AV3	MA3		3.8
		+-	0.7	0.04	0.05	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	PG		12	27	41.5		2.1	0.66	339			
		ESG				54		5.6					
	CNZ	IPG		12	27	44.1	U	-0.1	0.89	48		4.1	3.9
		SG			28	02		5.7					
	MNG	IPG		12	27	48.5	D	1.9	1.02	144		4.1	4.0
		SG			28	05		4.6					
	WEL	P•		12	27	54		1.6	1.49	178	3.6	3.8	4.0
		PG				57		0.9					
		S•			28	14		1.8					
		E				16							
	COB	SN		12	28	24.5		2.2	1.97	229	3.8		
	KRP	PN		12	27	55		-3.6	1.99	20			
		E			28	07							
		SN				18		-4.7					
		SG				33		0.0					
	TUA	PN		12	28	01		0.1	2.15	63		3.9	3.9
		S•				31		-1.2					
	GNZ	PN		12	28	08.5		-1.9	2.83	67		3.7	3.9
		E				36							
		SN				41		-2.8					
		S•				50		-2.8					
	KAI	ESN		12	29	03		-0.9	3.68	221	3.5		
	GPZ	SN		12	29	13		-3.0	4.18	201	3.6		
	MJZ	EPN		12	28	43		0.4	5.24	216		3.3	2.8
		E				46							
		SN			29	39		-2.4					
	MSZ	SN		12	30	20		-3.4	6.99	224			

	H	M	S										57/ 421
OCT 12	16	31	28.0	44.15S	168.81E	12 KM	SE	1.6		AV3	MA3		4.7
		+-	0.4	0.02	0.03	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP•		16	31	41.2	U	-2.0	0.83	230			
	MJZ	IP•		16	31	50.2	DSW	0.5	1.21	83		4.5	
		EPG				53		0.6					
		ES•			32	05		-0.9					
	ROX	IPN		16	31	52.6	U	-0.0	1.38	165		5.0	5.2
		IP•				53.3		0.7					
		PG				57		1.1					
		S•			32	11.8		0.8					
	MNW	P•		16	31	59.0	U	-1.5	1.84	207		4.9	5.1
		SG			32	27.5		-2.5					
	KAI	EPN		16	32	08.5		0.9	2.49	50	4.5		

	EP•			13	1.3						
	IPG			16.5	-1.9						
	SN			36.5	-0.7						
	ES•			44.5	-0.1						
WPZ	EP•?	16	32	12	-0.1	2.52	179		4.7	4.4	
	ES•			46	0.8						
GPZ	EPN	16	32	13	1.0	2.81	82	4.5			
	P•			21	3.9						
	E			37							
	ES•			54	-0.0						
	SG		33	01	-1.7						
COB	EPN	16	32	29	-1.9	4.21	45	4.8			
	PG			55	1.9						
	SN		33	19	0.3						
	SG			44	-5.9•						
WEL	PN	16	32	44	-0.6	5.24	59	4.5	4.5	4.3	
	E			48							
	SN		33	42	-1.5						
	E			50							
MNG	PN	16	32	53.7	-2.0	6.07	57				
	I		33	00.5							
	I			01.3							
	SN		34	05	1.6						
	E			17							
CNZ	PN	16	33	10.5	1.4	7.06	48				
	E			11.7							
	E		34	33							
	E			44							
	SG		35	24	-1.9						
KRP	PN	16	33	22	0.1	8.03	42				
	E			38							
	SN		34	50	0.0						
	S•		35	24	-6.9•						
	ESG			55	-3.5						
TUA	E	16	33	31		8.22	52				
ONE	EPN	16	33	42	2.2	9.38	29	4.7			
	E		34	01							
	SN		35	29	6.9•						
CRZ	PN	16	33	51.9	2.0	10.15	18				
	E			59.5							
	ESN		35	42	1.8						
	E			52							

FELT JACKSONS BAY (113) TO ARROWTOWN (122), MM IV

	H	M	S										57/ 422
OCT 15	05	15	03.2	41.79S	174.33E	12 KM	SE	2.6		AV3	MA3		3.7
		+-	0.7	0.04	0.04	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	PG		05	15	14.5		-1.1	0.60	33	3.4	4.1	4.1
		E				15.0							
		E				18							
		S•				21.5		-1.5					
		ESG				24		0.2					
	COB	EP•		05	15	29.5		1.4	1.39	300	3.5		
		EPG				32		0.6					
		S•				48		1.3					
		SG				50		-0.3					
	MNG	IP•		05	15	28.3	D	-1.0	1.46	37		4.1	4.0
		S•				49		0.3					
		SG				52		-0.5					
	GPZ	P•		05	15	44		0.9	2.27	213	3.1		
		PG				53.5		4.3					
		E			16	06							
		SG				22		2.2					
		E				38							
	KAI	PG		05	15	48		-1.6	2.29	250	3.1		
		S•			16	13		-0.7					

		E			16							
		ESG			23	2.5						
	TNZ	P•		05	15 51	2.2	2.60	1		3.9	3.7	
		PG			56	0.1						
		E			16 21							
		ES•			28	4.9						
		E			44							
	CNZ	EPN		05	15 48	1.5	2.75	20		4.1	4.1	
		P•			52.6	1.2						
		EPG			58	-0.9						
		S•			16 31	3.4						
		SG			34	-2.0						
	MJZ	EP•		05	16 01	-4.7	3.59	231		3.4	3.1	
		PG			09.5	-6.3•						
		E			20							
		ESN			41.5	2.6						
		SG			17 03.5	-0.6						
	TUA	PG		05	16 18	0.4	3.68	37		3.8		
		SG			17 12	4.7						
	KRP	EP•		05	16 11	-1.3	3.97	14				
		E			15							
		EPG			18	-5.6						
		ES•			17 03	-1.3						
		ESG			13	-4.2						
	GNZ	E		05	16 48		4.23	43		3.9		
	MSZ	P•		05	16 35	-3.4	5.50	236		3.4	3.2	
		E			42							
		S•			17 46	-4.1						

	H	M	S								67/ 421
OCT 15	15	38	43.8	41.95S	174.44E	12 KM	SE	2.8	AV3	MA3	3.7
		+-	0.8	0.04	0.05	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	PG	15	38	56.4	D	-1.9	0.71	20	3.6	4.4	4.3
		E		39	01.5							
		SG			04.5		-3.4					
		E			05.5							
	COB	EP•	15	39	12		0.7	1.54	303	3.2		
		PG			14.5		-0.6					
		S•			31.5		-0.4					
		SG			35.5		-0.5					
	MNG	IP•	15	39	11	D	-0.3	1.55	31		4.3	4.2
		S•			32		0.1					
	GPZ	EP•	15	39	24		1.7	2.19	217	3.0		
		PG			33		4.9					
		E			50							
		SG		40	06.5		8.9•					
		E			19							
	KAI	E(PG)	15	39	33		2.2	2.32	255	2.8		
		E			52							
		S•		40	00		4.7					
		SG			06		3.8					
	TNZ	PG	15	39	40.5		0.8	2.76	359		3.9	3.9
		S•		40	05		-3.4					
		ESG			18.5		1.6					
	CNZ	PN	15	39	31.3	D	2.5	2.87	17		4.3	4.2
		P•			34		-0.1					
		EPG			37.5		-4.5					
		ES•		40	12		0.1					
		E			15							
	MJZ	E	15	39	47.5			3.56	234		3.6	3.1
		PG			53		-2.7					
		E		40	00							
		S•			26		-6.3					
		SG			42		-1.7					
	TUA	E	15	39	55			3.76	34		4.1	3.7
		PG		40	02		2.1					

		SG			52	1.4						
		E		41	13							
	KRP	PN	15	39	48	2.7	4.11	12				
		P•			54	-1.2						
		E			58							
		E		40	39							
		ES•			52	3.1						
	GNZ	E	15	40	06		4.29	41		3.9	3.4	
		EPG			18	7.4•						
		ESG		41	08	-0.5						
	MSZ	P•	15	40	18	-0.7	5.48	238		3.4	3.3	
		S•		41	26	-4.2						

	H	M	S								67/ 424
OCT 15	20	30	40.9	33.95S	178.96E	261 KM	SE	2.5	AV3	MA3	5.0
		+-	1.9	0.10	0.12	17					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P	20	31	42.2	U	-0.6	3.75	185		5.1	5.3
		E		32	25							
		E			28.5							
		ES			31		-0.0					
	ONE	P?	20	31	50		2.0	4.20	243			
	GNZ	P	20	31	52.8		-1.7	4.74	189		4.8	5.2
		I			56.0							
		E		32	03							
		E			48							
		S			53		1.1					
	TUA	P	20	31	57		-1.3	5.06	196		4.5	5.2
		E		32	01.5							
		I			49							
		I			59							
		S		33	01.5		2.7					
	CRZ	P	20	32	03.0	U	2.7	5.23	263		4.1	
	MNG	P	20	32	22.2	U	-2.8	7.21	202			
		E		33	06							
		ES			42.5		-4.1					
	WEL	(P)	20	32	33		-2.5	8.04	203	5.4		
		E		34	00.5							
		S			03		-2.4					
		E			05.5							
	COB	ES	20	34	22		2.5	8.67	213			
	KAI	ES	20	35	00		0.9	10.41	213	4.9		
	CIZ	E	20	33	13			10.58	162			
		E			20							
		E			05							
		E			13							
		ES		35	07		4.2					
	GPZ	S	20	35	08.5		-1.6	10.90	205	5.4		
	MJZ	EP	20	33	24		-1.1	12.00	211			
		E			37							
		E		34	08							
		S		35	34		-0.8					
	MSZ	P	20	33	46		0.1	13.68	215			
		E			52							
		S		36	15		2.7					

	H	M	S								67/ 425
OCT 17	17	05	59.3	33.33S	179.78W	278 KM	SE	1.8	AV3	MA3	4.9
		+-	1.5	0.07	0.11	14					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	P	17	07	11		-0.4	4.57	197		5.3	4.9
		E		08	05							
		E			08							
		S			10		2.2					
		E		09	19							
	ONE	P	17	07	23		1.5	5.42	242			
	GNZ	P	17	07	22		-1.7	5.60	198		4.7	4.7

	E			35						
	E		08	24						
	S			29		-0.8				
KRP	P	17	07	29		0.8	5.97	218		
	E		08	49						
TUA	EP	17	07	27		-1.7	6.01	204		
	E			29						
	E		08	36						
	S			39		0.2				
	E			44						
CRZ	P	17	07	34		0.9	6.37	258		
CNZ	P	17	07	41		0.4	6.97	211		
	E		08	57						
	E		09	08						
MNG	P	17	07	53.5		-2.5	8.21	206		
	E		09	25						
	ES			29		1.4				
	E		10	19						
WEL	P	17	08	04		-2.6	9.06	207	5.0	
	ES		09	44		-2.7				
	E			46						
CIZ	E	17	08	38.5			10.91	168		
	S		10	30		1.7				
GPZ	ES	17	10	52		0.8	11.93	208	5.0	
MJZ	EP	17	08	57		0.5	13.08	213		
	ES		11	16		-0.8				
MSZ	P	17	09	20		2.5	14.81	217		

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	H	M	S										
OCT 18	22	06	23.7	34.02S	178.79W	33 KM	SE	3.4	AVG	MAG	6.1		
			+- 2.0	0.11	0.14	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	PN			22	07	28		2.7	4.26	210		6.2	6.1
	I					30.0							
	E				08	28							
	T				11	57							
GNZ	PN			22	07	40.0		0.8	5.29	208		6.0	6.1
	I					42.8							
	E				08	51							
TUA	PN			22	07	47.5		1.4	5.79	213		6.1	6.1
	ESN				08	53		3.4					
	ES•				09	22		2.4					
ONE	IPN			22	07	49.2	W	1.8	5.89	251			
AUC	PN			22	07	52.1	U	3.7	5.97	240			
KRP	PN			22	07	50.5		1.3	6.03	228			
	E				08	03							
	SN				09	02.5		7.2					
CNZ	PN			22	08	01		0.1	6.89	220			
	E					12.5							
	E				09	23							
	S•					53		0.5					
CRZ	IPN			22	08	03.6	U	0.2	7.08	264			
TNZ	EPN			22	08	10		0.5	7.53	225			
	E					26							
	E				10	04							
	ES•					13		1.1					
MNG	PN			22	08	13.3		-2.6	8.01	213			
	P•					38		-4.1					
	ESN				09	39		-3.7					
	S•				10	17		-9.3•					
	SCP				18	22							
WEL	EPN			22	08	26.5		-0.9	8.87	213	6.3		
	P•					54		-2.8					
	SN				10	05		1.7					
	ES•					47		-5.1					
	SCS				21	56.5							
COB	E			22	08	41			9.75	221	5.8		

	EP•		09	05		-6.8				
	SN		10	23.5		-0.6				
	E			32						
CIZ	E	22	08	52.0			10.07	171		
	E			59						
	SN		10	36		4.2				
	E			38						
KAI	E	22	09	02			11.46	219	5.9	
	E			12						
	P•			34		-7.1				
	SN		11	01.5		-2.7				
	I			13						
GPZ	E	22	09	07			11.74	212	6.0	
	SN		11	08		-2.7				
MJZ	EPN	22	09	20		-1.1	12.98	217		
	SN		11	38		-1.6				
	ESCP		18	28						
	PCS			34						
	SCS		22	03.5						
ROX	E	22	09	52			14.63	215		
	ESN		12	20		2.8				
	EL		13	30						
MSZ	E	22	09	49			14.78	220		
	SN		12	20		-0.5				
MNW	EPN	22	09	55		0.1	15.68	217		
	E		10	07						
	ESN		12	47		6.2				

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	H	M	S										
OCT 18	22	23	44.6	34.22S	179.31W	33 KM	SE	2.7	AVG	MAG	4.7		
			+- 2.1	0.10	0.13	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EPN			22	24	44		3.0	3.88	206		4.8	4.6
	E				25	37							
GNZ	PN			22	24	54		-1.1	4.91	205		4.6	4.5
	E				25	07							
	ESN					55		5.7					
	E				26	02							
TUA	PN			22	25	01		-0.6	5.39	211		4.8	4.7
	SN				26	07		6.1					
ONE	EPN			22	25	03		1.1	5.42	252			
KRP	PN			22	25	04		-0.0	5.57	227			
	SN				26	14		8.7•					
CNZ	PN			22	25	16.5		0.5	6.46	218			
	E					26							
	E				26	37.5							
	E					56							
CRZ	PN			22	25	17		-1.3	6.63	266			
TNZ	EPN			22	25	26.5		2.0	7.09	224			
	E					39							
MNG	PN			22	25	31		-0.5	7.61	211			
	P•					53		-3.2					
	E				26	44							
	ESN					53		-1.1					
	S•				27	33		-2.2					
WEL	E			22	27	14			8.47	212	5.1		
	SN					16		1.4					
COB	ESN			22	27	34		-0.7	9.31	220			
CIZ	E			22	26	15			9.95	168			
	SN				27	48		-1.9					
	E					55							
KAI	ESN			22	28	13		-2.1	11.03	219	4.9		
GPZ	SN			22	28	20		-2.3	11.34	211			
MJZ	ESN			22	28	48		-2.8	12.57	216			

	H M S																57/ 428
OCT 18	23 08 51.3	34.25S	179.37W	33 KM	SE	3.3					AV3	MA3	4.2				
	+- 3.1	0.17	0.17	R													
		H M S		DIR	RES		DIST	AZ		W-A	W	P	W	S			
	ECZ PN	23 09 46			-1.0		3.83	206					4.4	4.2			
	ESN	10 36			6.3												
	GNZ E	23 10 05					4.86	205					4.2	4.2			
	E	11 03															
	TUA PN	23 10 06			-1.6		5.34	211					4.0	4.1			
	P*	25			1.0												
	SN	11 11			4.7												
	KRP PN	23 10 10			0.1		5.52	227									
	E	18															
	P*	26			-1.0												
	CNZ EPN	23 10 25			3.0		6.41	218									
	E	33															
	E	11 42															
	S*	12 05			-0.6												
	TNZ E	23 10 45					7.03	224									
	MNG E	23 10 48					7.56	211									
	P*	58			-3.9												
	SN	11 57			-2.5												
	S*	12 36			-4.3												
	CIZ ESN	23 12 55			-1.0		9.93	168									
	E	13 01															
	MJZ ESN	23 13 57			0.8		12.51	216									
	H M S																57/ 429
OCT 19	00 02 33.6	38.37S	176.17E	182 KM	SE	1.7					AV3	MA3	4.0				
	+- 1.1	0.06	0.05	8													
		H M S		DIR	RES		DIST	AZ		W-A	W	P	W	S			
	KRP P	00 03 00		U	0.5		0.67	311									
	IS	18			-1.5												
	TUA E	00 03 17					0.88	120						4.2			
	S	21			-0.9												
	CNZ IP	00 03 02.9		D	1.5		0.96	210					4.1	3.1			
	ES	24			1.2												
	E	31															
	GNZ P	00 03 07.3			1.5		1.48	101					3.9	3.8			
	E	23															
	S	31			0.4												
	TNZ P	00 03 09.2			2.0		1.62	239					3.9				
	ECZ P?	00 03 11.5			0.4		1.99	71					4.1	3.8			
	E	13.5															
	ES	37			-2.9												
	MNG IP	00 03 15.8		U	1.2		2.31	193					4.6	4.1			
	S	46.5			0.3												
	WEL IP	00 03 25.0		D	0.7		3.11	200		3.7			4.2	3.7			
	E	30.5															
	S	04 04			0.7												
	COB ES	00 04 18			-0.6		3.79	223									
	KAI S	00 04 55			-3.3		5.52	220		4.1							
	GPZ E	00 05 04					5.95	205		4.2							
	S	07			-1.6												
	MJZ E(P)	00 04 16			0.5		7.07	216									
	S	05 30			-5.0*												
	H M S																57/ 431
OCT 19	03 55 45.1	33.70S	178.64W	33 KM	SE	3.2					AV3	MA3	4.4				
	+- 2.4	0.11	0.16	R													
		H M S		DIR	RES		DIST	AZ		W-A	W	P	W	S			
	ECZ PN	03 56 53			1.6		4.60	209					4.6	4.5			
	ESN	57 46			3.8												
	E	58 20															
	GNZ PN	03 57 06			0.7		5.63	208					4.4	4.3			
	ESN	58 08			0.9												

	ONE PN	03 57 13			1.0		6.12	248									
	TUA PN	03 57 12.5			0.4		6.13	213									
	P*	28			-3.3												
	ESN	58 21			1.9												
	ES*	46			-5.1												
	AUC EP*	03 57 32			-1.2		6.24	238									
	KRP PN	03 57 16.5			1.6		6.34	227									
	E	25															
	E	58 37															
	E	49															
	CNZ EPN	03 57 28			1.3		7.22	219									
	E	40															
	SN	58 50			4.9												
	ES*	59 27			3.2												
	CRZ PN	03 57 28			0.9		7.24	262									
	TNZ E	03 57 47					7.85	224									
	MNG E(PN)	03 57 38.5			-3.3		8.35	212									
	P*	58 03			-6.3												
	SN	59 08			-4.2												
	S*	41			-16.8*												
	CIZ SN	04 00 02			1.9		10.37	172									
	E	10															
	MJZ ESN	04 01 08			-0.6		13.32	216									
	H M S																57/ 431
OCT 19	04 31 04.0	40.14S	173.67E	220 KM	SE	1.3					AV3	MA3	3.7				
	+- 1.0	0.05	0.06	7													
		H M S		DIR	RES		DIST	AZ		W-A	W	P	W	S			
	TNZ S	04 32 02			0.0		1.10	30						3.0			
	COB S	04 32 02			-1.1		1.19	217		2.9							
	WEL S	04 32 07			0.8		1.42	144		3.7				4.1			
	MNG P	04 31 41.3			1.9		1.46	110					3.7	4.0			
	I	44.3															
	E	32 06															
	S	07.5			0.7												
	CNZ IP	04 31 42.7		U	1.0		1.73	58					3.8	3.8			
	E	32 03.5															
	S	09			-1.9												
	KRP ES	04 32 29			1.3		2.65	34									
	GPZ S	04 32 47			-1.1		3.64	192		3.9							
	GNZ P	04 32 03.5			0.2		3.69	68					3.9	3.7			
	ES	48			-1.2												
	ECZ P	04 32 12.5			-1.0		4.52	59					4.2				
	MJZ S	04 33 08			0.4		4.52	211						2.8			
	H M S																57/ 432
OCT 19	16 46 48.6	44.97S	167.51E	91 KM	SE	1.0					AV3	MA3	4.0				
	+- 1.0	0.03	0.05	7													
		H M S		DIR	RES		DIST	AZ		W-A	W	P	W	S			
	MSZ IP	16 47 04.1		U	1.0		0.41	45									
	S	14			-0.1												
	MNW IP	16 47 06.5			-0.2		0.82	175									
	ES	19			-1.4												
	ROX IP	16 47 14.1		D	0.6		1.37	112					4.6	4.4			
	S	32.5			0.5												
	WPZ PN	16 47 20.3			-0.2		1.94	152					4.1	4.2			
	SN	45			0.9												
	MJZ PN	16 47 26.0			0.0		2.33	66					3.4	3.8			
	SN	54			0.3												
	GPZ E	16 48 24					3.90	73		3.9							
	SN	31			-1.4												
	COB ESN	16 49 07			-3.8*		5.45	46									
	H M S																57/ 433
OCT 20	18 18 53.5	37.73S	176.31E	314 KM	SE	0.7					AV3	MA3	4.7				
	+- 0.4	0.03	0.04	3													

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P		18	19	34.7	U	0.4	0.64	252			
	S			20	06.5		0.3					
TUA	IP		18	19	37.2	U	0.1	1.27	149		5.1	4.1
	E			20	05							
	S				11		0.0					
CNZ	IP		18	19	39.9	D	0.9	1.59	202		4.3	3.7
	E			20	08							
	S				18		3.6*					
GNZ	P		18	19	39.6		0.3	1.63	125		4.8	4.1
	I				40.9							
	E				49							
	E			20	06							
	S				15		0.1					
ECZ	E		18	19	49.5			1.77	90		4.3	4.1
	E			20	08							
	S				15		-1.7					
MNG	IP		18	19	50.7	U	0.4	2.96	192		4.9	4.5
	S			20	34.5		-0.2					
WEL	P		18	19	58.7	D	0.4	3.75	198	4.7	4.7	4.3
	ES			20	49.5		0.5					
	E				51							
COB	EP		18	20	04		-0.8	4.35	218	4.9		
	S			21	00		-0.6					
KAI	ES		18	21	36		-0.5	6.09	217	4.8		
GPZ	EP		18	20	32		1.2	6.58	204	5.3		
	E			21	45							
	S				48		0.9					
MJZ	P		18	20	44.0		0.2	7.66	213			
	S			22	10		-0.5					
ROX	S		18	22	47		-0.5	9.34	212			
MSZ	P		18	21	04.5		-0.3	9.38	220			
	S			22	46		-2.4*					
MNW	P		18	21	16		-0.4	10.33	216			
	ES			23	09		-0.4					

57/ 434

	H	M	S						AVG	MAG	
OCT 21	11	38	24.0	44.98S	167.69E	70 KM	SE	1.6			4.1
			+- 1.2	0.04	0.07	10					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MSZ	IP		11	38	36.7	D	0.7	0.35	28			
	ES				45		-0.1					
MNW	IP		11	38	40.3	U	-0.2	0.80	183			
	S				50.8		-2.1					
ROX	IP		11	38	47.6	D	1.3	1.25	114		4.2	4.1
	S			39	04		1.0					
WPZ	S		11	39	17.3		0.4	1.87	155			4.1
MJZ	IP		11	38	59.8	DS	0.4	2.22	64		3.7	3.7
	E			39	05							
	S				26.5		0.8					
	I				34							
GPZ	S		11	40	03		-1.8	3.78	72	3.5		
COB	S		11	40	44		-0.4	5.37	45			
MNG	E(P)		11	40	11		2.3	7.20	55			
	E				13							
	S			41	27.5		-2.2					
	E				29.5							
	E				39							

57/ 435

	H	M	S						AVG	MAG	
OCT 21	17	51	29.5	36.47S	177.99E	277 KM	SE	0.7			4.2
			+- 0.7	0.04	0.04	4					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P		17	52	09		-0.6	1.30	160		4.2	4.1
	E				14							
	E				32.5							
	ES				39.5		-0.9					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P		17	52	16.3	U	0.3	2.17	179		4.6	4.2
	I				17.6							
	E				33							
	E				45.5							
	S				53		0.7					
TUA	P		17	52	18.5		0.1	2.43	196		4.2	4.1
	E				19.8							
	E				23							
	ES				56		-0.5					
	E			53	10							
KRP	P		17	52	19.1	U	0.6	2.43	233			
	S				56		-0.6					
CNZ	P		17	52	28.6		0.9	3.34	215		3.5	3.3
	ES			53	14		0.9					
	E				18							
MNG	P		17	52	41.5	U	-0.3	4.58	205		4.5	4.1
	E			53	30							
	S				39		0.7					
WEL	P		17	52	51.8	U	0.0	5.42	207	4.4	4.6	4.2
	S			53	56.5		0.3					
COB	ES		17	54	12		-0.5	6.17	220			
GPZ	S		17	54	59.5		-0.4	8.29	208	4.6		
MJZ	E		17	54	09			9.45	215			
	S			55	25		-0.8					

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	H	M	S						AVG	MAG	
OCT 21	20	34	54.3	49.64S	162.49E	33 KM	SE	4.2			4.3
			+- 6.4	0.41	0.72	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	EPN		20	36	05.5		-3.0	5.18	44		4.7	3.9
	E				06.4							
	SN			37	05		-0.6					
MSZ	PN		20	36	21		-1.2	6.20	39			
	SN			37	31		1.1					
ROX	PN		20	36	17		-5.5	6.22	50			
MJZ	PN		20	36	49		4.4	7.86	47			
	E			37	03.5							
MNG	PN		20	37	55		5.0	12.85	50			
CIZ	PN		20	38	22		-0.2	15.41	76			

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	H	M	S						AVG	MAG	
OCT 21	21	33	08.6	49.47S	161.99E	33 KM	SE	4.8			4.3
			+- 5.4	0.51	0.54	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	PN		21	34	22.0		-2.4	5.30	48		4.7	4.0
	E				23.4							
	E			35	17							
	SN				19		-3.7					
MSZ	PN		21	34	38		0.4	6.28	42			
	SN			35	48		1.8					
ROX	PN		21	34	34		-4.8	6.38	54			
	E				45							
	E			35	37							
	SN				43		-5.5					
MJZ	EPN?		21	35	04		3.4	8.00	50			
	E				06							
	E			36	15							
	E				27							
GPZ	SN		21	37	07		7.8	9.34	56			
MNG	EPN		21	36	10		3.8	13.00	52			
	E				13							
CIZ	PN		21	36	39		-0.9	15.69	78			

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	H	M	S						AVG	MAG	
OCT 22	21	52	11.6	40.46S	175.44E	12 KM	SE	2.4			3.7
			+- 0.7	0.03	0.05	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IPG	21 52 15.9	D	0.4	0.16	168			
	ESG	19.5		1.4					
WEL	P*	21 52 27.7	D	-1.5	0.97	212	3.2	4.0	4.1
	I	35							
	S*	41		-1.3					
CNZ	P*	21 52 34.1	U	-0.2	1.26	4		4.2	4.1
	E	38.5							
	S*	52.5		1.2					
TNZ	P*	21 52 39.6	U	1.0	1.51	327		3.9	4.1
	SN	53 00		2.4					
	S*	03		4.3					
TUA	P*	21 52 51		2.1	2.12	39		3.4	3.4
	PG	56		1.5					
	ESG	53 29		6.0*					
	E	45							
COB	EPG	21 52 55		-0.0	2.15	252	2.9		
	S*	53 19		1.3					
	SG	22		-2.0					
KRP	P*	21 52 54		-2.1	2.54	2			
	PG	59		-3.9					
	S*	53 29.5		0.0					
	SG	32.5		-4.6					
	E	36							
GNZ	E	21 53 09			2.70	49		3.7	3.5
	E	54 00							

FELT MANGAHAO (62) AND OTAKI(65)

	H M S							67/ 4[illegible]
OCT 24	03 12 15.4	38.17S	176.04E	221 KM	SE	1.4	AV3 MAG	4.1
	+- 1.0	0.06	0.05	7				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	P	03 12 45.2	U	0.2	0.46	301			
	S	13 06		-1.9					
TUA	P	03 12 48.2		0.1	1.08	127		4.2	4.1
	S	13 12.5		-1.0					
CNZ	P	03 12 50.1	U	1.8	1.10	200		3.4	3.1
	E	13 13.5							
	ES	16		2.3					
GNZ	P	03 12 53.3	D	0.9	1.63	108		4.4	4.1
	S	13 20		-1.0					
ECZ	P	03 12 56.5		0.2	2.04	77		4.5	4.4
	S	13 27		-0.7					
MNG	IP	03 13 02.5	D	1.6	2.49	190		4.3	4.2
	E	13							
	E	30							
	S	36		-0.1					
WEL	P	03 13 11		1.2	3.27	197	3.8	3.9	4.1
	S	52		0.1					
GPZ	S	03 14 53.5		-1.2	6.09	204			
MJZ	P?	03 13 58		-0.9	7.18	214			
	E	14 00							
	S	15 18		-1.7					

	H M S							67/ 4[illegible]
OCT 25	09 16 18.3	37.17S	177.21E	233 KM	SE	1.3	AV3 MAG	5.1
	+- 0.7	0.03	0.05	5				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	IP	09 16 51.6	U	-1.4	1.19	117		6.0	
	E	56							
	E	17 16							
	IS	19.5		-0.4					
KRP	IP	09 16 56.3	USW	0.7	1.53	240			
	S	17 24.5		0.2					
GNZ	IP	09 16 56.6	U	0.4	1.61	157			
	E	17 22							
	S	26		0.5					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	IP	09 16 56.1	U	-0.4	1.64	182		5.7	5.7
	E	17 20							
	S	25		-0.9					
WNZ	P	09 16 58.5		1.5	1.70	211		5.0	5.0
	E	17 05							
	E	33							
AUC	IP	09 16 59.8	U	0.4	1.97	278			
CNZ	IP	09 17 05.1	D	1.3	2.41	212		4.9	4.8
	E	15							
	S	39.5		0.4					
	I	45							
ONE	IP	09 17 05.3	E	-1.5	2.68	300	4.6		
	S	43.5		-0.8					
TNZ	P	09 17 12.9	U	2.7	3.00	227		4.8	4.3
	S	56.5		6.0*					
MNG	IP	09 17 18.8	U	0.5	3.70	201		5.4	5.4
	E	58.5							
	S	18 05		0.1					
WEL	IP	09 17 27.9	D	-0.4	4.53	204	5.7	5.7	5.6
	E	18 15							
	S	23		0.2					
CRZ	IP	09 17 28.5	D	-0.5	4.58	305		5.3	
COB	E	09 17 42			5.23	220	5.3		
	E	58							
	E	18 13							
	S	38		-0.5					
	E	40							
KAI	E(P)	09 18 02		3.0	6.96	218	5.5		
	S	19 16.5		-1.3					
	E	20							
GPZ	EP	09 18 03.3		-1.2	7.39	207	5.8		
	S	19 26		-1.6					
CIZ	E	09 18 27			8.27	147			
	E	19 59							
	E	20 06							
MJZ	EP	09 18 18.8		-0.2	8.52	215			
	E	24							
	E	43							
	S	19 52		-1.5					
	E	54							
ROX	E(P)	09 18 40		-0.4	10.20	213			
	E	19 01							
	ES	20 30		-1.9					
MSZ					10.27	220			
MNW	P	09 18 53.5		0.3	11.20	217			
	E	19 18							
	E	20 53							
	S	58		2.9					

FELT NGAKAROA (44) MM IV

	H M S							67/ 441
OCT 27	22 54 22.4	37.48S	176.93E	12 KM	SE	3.0	AVG MAG	4.3
	+- 1.0	0.05	0.05	R				

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	PG	22 54 48.3		1.8	1.19	248			
	E	51							
	E	59.5							
	SG	55 08		5.5					
ECZ	P*	22 54 47.5		1.7	1.30	100		5.5	
	IPG	50		1.2					
WNZ	E	22 54 58			1.32	209		3.9	3.8
	E	55 15							
TUA	PG	22 54 49		-0.5	1.34	172		4.9	4.8
	SG	55 08.5		0.9					
	E	12							
GNZ	PG	22 54 50		-1.7	1.45	144		5.3	5.0
	ESG	55 13		1.7					

		E		25						
	AUC	PG	22	54 59	-0.3	1.82	289			
		E		55 06						
		I		08						
	CNZ	EPG	22	55 05	1.5	2.03	212		4.0	3.7
		ESG		28	-2.9					
	ONE	EP*	22	55 10	0.8	2.67	309	3.8		
		E		14						
		E		32						
		ESG		52	-0.5					
		E		56 11						
	MNG	P*	22	55 16.5	-3.9	3.33	199		4.1	3.8
		E		20						
		PG		29	-0.7					
		E		32						
		ESG		56 21	6.4					
	WEL	PG	22	55 45	-1.4	4.15	203	3.9	4.3	3.8
		E		56 18						
		ES*		27	-1.8					
	CRZ	P*	22	55 40	-2.1	4.60	310		4.0	
		E		44						
	GPZ	ES*	22	57 49	-5.7	7.01	206			
	MJZ	P*	22	56 33	-9.8*	8.14	215			
		E		58 18						

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	H	M	S									
OCT 31	10	09	19.6	40.10S	174.92E	12 KM	SE	1.2	AV3	MA3	3.8
			+- 0.3	0.01	0.02	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IPG		10	09	33.8	U	0.4	0.68	141		3.9	4.1
		SG				42.8		0.1					
	TNZ	PG		10	09	39		-0.9	1.00	335		3.3	3.8
		SG				54		0.6					
		E				56.5							
	CNZ	IPG		10	09	39.1	D	-1.2	1.02	29		3.7	3.9
		SG				53		-1.1					
	WEL	P*		10	09	41.6	D	0.5	1.19	185	3.6	3.8	4.2
		S*				56.5		-0.6					
	COB	S*		10	10	19		-0.4	1.93	239	2.7		
	KRP	P*		10	10	00		1.3	2.22	13			
		E				02							
		S*				28		0.0					
		SG				35		0.5					
	GNZ	EP*?		10	10	08		-0.7	2.81	60		3.4	
		PG				18		1.6					
	KAI	ES*		10	11	11		1.9	3.59	226	3.5		
	MJZ	SN		10	11	30		-2.0	5.11	219			

POSSIBLY FELT AT WAITOTARA

57/ 44

	H	M	S									
OCT 31	10	09	56.8	40.09S	174.96E	12 KM	SE	1.7	AV3	MA3	3.9
			+- 0.4	0.02	0.03	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IPG		10	10	10.8	U	0.5	0.66	143		4.2	4.4
		SG				20.0		0.6					
	CNZ	PG		10	10	16		-1.1	1.00	27		4.0	4.1
		SG				30		-0.6					
	TNZ	PG		10	10	17		-0.3	1.01	333		3.8	3.9
		SG				31.5		0.5					
		E				34							
	WEL	P*		10	10	18.5		-0.0	1.20	187	3.9	4.3	4.4
		S*				33		-1.7					
	COB	SN		10	10	52		-1.2	1.97	239	3.1		
	KRP	E		10	10	39			2.21	12			
		SN			11	00		1.0					
		S*				04		-0.8					
		SG				11		-0.3					

	GNZ	PG	10	10 55		2.0	2.78	60		3.7
	KAI	S*	10	11 51		3.8	3.62	227	3.8	
	GPZ	SN	10	11 40		-2.5	4.00	205	3.6	
	MJZ	SN	10	12 16		6.1*	5.14	219		

FELT WAITOTARA (56) MM IV

57/ 444

	H	M	S									
OCT 31	14	56	16.4	45.10S	167.85E	12 KM	SE	2.3	AV3	MA3	3.9
			+- 1.0	0.05	0.07	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IPG		14	56	27		1.6	0.43	6			
	MNW	IPG		14	56	30.0	D	-0.7	0.70	194		3.9	4.0
		SG				41		0.8					
	ROX	IPG		14	56	38.6	D	-0.1	1.10	110		4.1	4.4
		SG				55.0		1.4					
		I				55.6							
	MJZ	PN		14	56	50.8	D	-0.8	2.18	60		3.5	3.7
		P*				54		-0.7					
		PG			57	03		2.6					
		SN				18		0.2					
		I				20							
	KAI	SN		14	57	56		2.6	3.64	46	4.0		
	GPZ	SN		14	57	51.5		-3.6	3.71	69	3.8		
		S*				58 00		-9.5*					
		E				05							
	COB	SN		14	58	34		-1.1	5.37	43	4.1		
		E				38							
	MNG	E		14	58	05			7.17	54			
		P*				16		-4.2					
		E			59	15							
		SN				20		1.9					

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	H	M	S									
OCT 31	17	22	55.4	38.73S	176.27E	12 KM	SE	2.2	AV3	MA3	3.3
			+- 0.7	0.04	0.03	R					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WNZ	EPG		17	23	01		1.6	0.17	307			
		E				11							
	TUA	IPG		17	23	08.4	U	-1.1	0.69	96		3.6	3.8
		ISG				17.6		-1.3					
	CNZ	IPG		17	23	10.7	U	0.3	0.73	230		3.5	3.1
		S*				19.5		0.4					
		SG				24		3.7					
	KRP	PG		17	23	14		-1.6	0.99	324			
		SG				28		-1.1					
		E				30							
	GNZ	PG		17	23	23.5		0.3	1.37	87		3.3	3.4
		E				28							
		SG				45		3.3					
		E				51							
	MNG	PG		17	23	33		-2.4	1.98	198		3.4	2.8
		ESG			24	00		-2.2					

FELT NGAMOANA(41)

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	H	M	S									
NOV 02	09	23	27.4	37.81S	176.39E	200 KM	SE	1.4	AV3	MA3	4.5
			+- 1.0	0.04	0.04	8					
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P		09	23	55.7		0.2	0.68	260		4.5	
		S			24	16.7		-0.5					
	TUA	EP		09	24	00.0		1.5	1.16	149		4.4	4.7
		ES				22		-0.6					
	GNZ	P		09	24	00.9		-0.7	1.53	123		4.3	4.6
		S				27		-1.1					
	CNZ	P		09	24	04.0		2.3	1.54	205		4.1	
		E				37							
	AUC	P		09	24	01.5		-0.8	1.60	306		4.8	

	ECZ	P	09 24 05.0		1.6	1.71	87		4.8	4.2
		ES	30		-1.1					
	MNG	IP	09 24 16.6		0.2	2.89	194		4.7	4.5
		S	55.0		0.8					
	WEL	P	09 24 26.0		0.1	3.69	199	4.8	5.0	4.5
		S	25 12		0.8					
	COB	ES	09 25 27		1.6	4.33	220	4.4		
	KAI	ES	09 26 03		-2.2	6.06	217			
	GPZ	ES	09 26 16		-0.2	6.53	205			
	MJZ	ES	09 26 40		-1.8	7.63	214			

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	H M S								
NOV 03	00 50 19.7	39.33S	176.95E	12 KM	SE 0.7	AVG MAG			4.1
	+- 0.3	0.02	0.02	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	PG	00 50 31.0		0.1	0.54	16		4.1	4.3
	SG	38.7		0.4					
WNZ	EPG	00 50 40.5		1.2	0.96	316			
	E	44							
GNZ	EPG	00 50 41		-0.6	1.08	51		4.3	
	E	47							
CNZ	PG	00 50 42.0		-0.0	1.10	276		4.2	
	ESG	57		0.1					
MNG	PN	00 50 49.0		0.2	1.72	221		3.8	
	E	57							
KRP	E?	00 50 47			1.79	321		3.4	
	P•	50.7		-0.7					
	EPG	58		2.1•					
	ESG	51 19		-1.0					
WEL	ESN	00 51 31		-0.3	2.57	220	3.7		
AUC	PG	00 51 21		0.5	3.00	324		4.9	
	I	32							
COB	E	00 52 05			3.68	240	3.9		
GPZ	E	00 52 36			5.43	215	4.3		

FELT REDCLIFFE(60) MM IV, AND MAUNGATANIWHA(42).

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	H M S								
NOV 03	19 41 06.8	44.97S	167.67E	33 KM	SE 1.3	AVG MAG			4.1
	+- 1.1	0.04	0.06	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	P•	19 41 22.0		-0.5	0.81	182		4.0	4.1
	S•	34.3		0.4					
ROX	P•	19 41 29.7		-0.3	1.27	114		4.0	4.1
	S•	47		-0.2					
WPZ	EPN	19 41 35.2		-0.7	1.88	154		4.3	4.3
	SN	59		1.2					
MJZ	EPN	19 41 40		-0.6	2.23	65		3.1	3.9
	SN	42 08		1.8					
KAI	ESN	19 42 42		1.2	3.65	49	4.0		
GPZ	ESN	19 42 42		-2.3	3.79	72	3.8		

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	H M S								
NOV 05	01 03 14.9	40.12S	174.81E	12 KM	SE 1.2	AVG MAG			4.1
	+- 0.4	0.02	0.03	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP•	01 03 28.7	U	0.5	0.71	134		4.1	
	S•	37.3		-0.7					
CNZ	P•	01 03 34.3		-0.2	1.08	32		3.8	4.1
	S•	49.0		-0.1					
WEL	P•	01 03 36.7		0.8	1.16	182	4.0	4.2	4.5
	S•	51.0		-0.6					
COB	ES•	01 04 12		-0.3	1.86	238	3.3		3.7
TUA	E	01 03 53			2.23	55			
	ES•	04 24		0.3					
KRP	E	01 03 53.5			2.26	15		4.0	
	IP•	57.0		2.2					
	ES•	04 22.7		-1.9					

		E	29								
	KAI	E	01 05 07				3.51	226	3.9		

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	H M S								
NOV 05	02 33 33.8	39.04S	174.71E	205 KM	SE 1.4	AVG MAG			4.1
	+- 1.1	0.05	0.08	9					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
CNZ	EP	02 34 04		1.7	0.67	104		3.2	3.7
	ES	23		-1.4					
KRP	P	02 34 06.6		0.2	1.29	30		3.8	
	S	31.0		-0.7					
MNG	P	02 34 11.3		1.4	1.68	160		4.5	4.0
	E	31							
	S	37.3		-0.4					
TUA	EP	02 34 12.0		-0.2	1.92	84		4.5	
WEL	P	02 34 17		1.5	2.24	179	4.2	4.0	4.2
	S	49		1.2					
COB	ES	02 34 55		1.1	2.55	216			3.9
GNZ	P	02 34 18.4		-1.4	2.61	82		4.7	4.2
	ES	50		-5.4•					
ECZ	E	02 34 26				3.30	67		
KAI	ES	02 35 31		-0.3	4.29	215	4.4		
GPZ	S	02 35 43		-2.1	4.90	198	4.8		
MJZ	ES	02 36 07		-0.6	5.88	211		3.7	

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	H M S								
NOV 07	05 16 10.0	41.84S	173.78E	12 KM	SE 1.5	AVG MAG			4.4
	+- 0.4	0.02	0.03	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	PG	05 16 28.6		-0.2	0.92	54	4.5	4.9	4.9
	SG	43.3		2.0					
COB	EPG	05 16 32.7		0.6	1.08	313	4.0		
	SG	47.3		0.5					
MNG	IP•	05 16 41.0		-0.4	1.77	47		4.8	4.7
	ES•	17 02		-2.8					
KAI	EPG	05 16 48.5		0.1	1.89	248	4.5		
	SG	17 14		0.1					
GPZ	EP•	05 16 47		1.0	2.04	204		3.0	
	EPG	51		-0.3					
	S•	17 14		1.0					
TNZ	EP•	05 16 58		0.9	2.68	10		4.5	4.7
	EPG	17 05		0.6					
	ES•	32		-0.4					
	E	41							
CNZ	E	05 17 00.5			2.96	28		4.9	
	IP•	04.0		2.3					
MJZ	EP•	05 17 05		-1.7	3.25	227		4.1	
	E	11.5							
	E	45							
	ISG	58		-1.6					
KRP	E	05 17 15.0			4.13	20		4.3	
	EP•	23		1.1					
	ES•	18 13		-2.9					
	ESG	25		-4.4•					

FELT JORDAN(83) SEDDON(84)

57/ 452

	H M S								
NOV 07	05 17 10.9	41.76S	173.73E	12 KM	SE 1.2	AVG MAG			4.2
	+- 0.5	0.03	0.03	R					

		H M S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IPG	05 17 29.8		0.3	0.91	59	4.5	4.7	4.9
	SG	43		1.1					
COB	EPG	05 17 33		1.7	1.01	312	3.2		
MNG	EP•	05 17 42		0.1	1.75	50		4.6	4.5
	ES•	18 04		-1.1					
	E	08							
KAI	ESG	05 18 14		-0.5	1.89	245	3.3		

	GPZ	ES•	05 18 15		-0.3	2.09	202	3.5				
	TNZ	ES	05 18 38		-1.3	2.62	11					4.2

THIS AFTERSHOCK HAS A DIFFERENT RADIATION PATTERN FROM THE MAIN SHOCK LARGE AMPLITUDES AT WEL AND MNG.

												57/ 453
	H M S											
NOV 07	12 35 57.9		39.03S	175.07E	215 KM	SE	1.5		AVG	MAG		4.2
	+- 1.2		0.05	0.06	9							
			H M S	DIR	RES	DIST	AZ		W-A	W P	W S	
	CNZ	P	12 36 27.0	D	0.4	0.41	115					
		S	49.0		0.2							
	TNZ	P	12 36 28.6		1.5	0.56	253			3.6		
	KRP	P	12 36 30.2		-0.3	1.16	19			4.1		
		S	54.5		-1.3							
	MNG	IP	12 36 35.4		1.1	1.62	169			4.8	4.4	
		S	37 02		-0.4							
	TUA	P	12 36 34.8		0.3	1.64	83			4.1	4.1	
		ES	37 01		-1.7							
	WEL	EP	12 36 42		1.4	2.27	186	4.1		3.9	4.2	
		S	37 15.0		1.3							
	GNZ	P	12 36 41.0		-0.4	2.34	82			4.3	3.8	
		ES	37 16		1.0							
	COB	ES	12 37 23		0.2	2.73	220	4.1				
	GPZ	ES	12 38 09		-3.1	5.01	201	4.7				
	MJZ	ES	12 38 31		-4.7•	6.04	213					

												57/ 454
	H M S											
NOV 08	08 31 43.1		45.16S	167.53E	84 KM	SE	1.7		AVG	MAG		4.5
	+- 1.8		0.06	0.09	18							
			H M S	DIR	RES	DIST	AZ		W-A	W P	W S	
	MSZ	P	08 32 00.0		1.8	0.57	30					
	MNW	IP	08 31 58.5		-0.2	0.62	174			4.4		
		ES	32 08		-2.5							
	ROX	P	08 32 08.3		1.6	1.30	104			4.7	4.8	
		S	26.0		1.7							
	WPZ	P	08 32 13.2		0.7	1.76	149			4.7	4.8	
		S	34.3		0.1							
	MJZ	P	08 32 20.5		-0.8	2.41	62			3.5	4.8	
		S	50		0.2							
	KAI	ES	08 33 25		-0.7	3.85	48	4.0				
	GPZ	E	08 33 22			3.95	70	4.4				
		ES	26		-2.1							
	MNG	E	08 33 35			7.40	55					

FELT TE ANAU (130) MM III

												57/ 455
	H M S											
NOV 08	11 34 07.3		38.53S	176.02E	172 KM	SE	1.6		AVG	MAG		5.0
	+- 0.9		0.04	0.05	8							
			H M S	DIR	RES	DIST	AZ		W-A	W P	W S	
	WNZ	P	11 34 31.0		0.7	0.12	147					
	KRP	IP	11 34 32.1		-0.4	0.72	328			4.7	4.3	
		S	49		-2.9							
	CNZ	P	11 34 34.3		1.6	0.76	209					
	TUA	P	11 34 34.9		1.1	0.93	108			4.9	5.0	
		E	48									
		IS	54		-0.3							
	TNZ	P	11 34 40.6		2.3	1.44	243			4.7	4.2	
		S	35 05		2.8							
	GNZ	P	11 34 40.5		0.9	1.57	95			5.6	5.1	
		S	35 02.5		-2.0							
	MNG	P	11 34 46.8	U	1.2	2.12	191			5.0		
		ES	35 15		-0.1							
	ECZ	P	11 34 47.0		1.0	2.16	68			5.5		
	GBZ	P	11 34 47.3		-0.9	2.35	349			3.9		
	WEL	P	11 34 55.8		0.6	2.91	199	5.0		5.2	5.2	
		S	35 31		-1.0							
	COB	EP	11 35 03		-0.7	3.59	224	5.3				

		S	46.3		-0.8							
	KAI	ES	11 36 25.0		-2.0	5.31	220	5.3				
	GPZ	EP	11 35 30.5		-1.2	5.75	205	5.5				
		S	36 33		-4.3•							

												57/ 456
	H M S											
NOV 09	21 40 19.4		41.98S	173.69E	12 KM	SE	0.8		AVG	MAG		4.6
	+- 0.2		0.02	0.02	R							
			H M S	DIR	RES	DIST	AZ		W-A	W P	W S	
	WEL	IP•	21 40 39.0	D	0.3	1.06	50		4.2	5.0	5.0	
		S•	53.5		0.5							
	COB	P•	21 40 40.0		0.0	1.14	321					
		S•	54		-1.3							
	KAI	EP•	21 40 51.0		0.1	1.78	251	4.3				
		E	54.0									
		E	58									
		SN	41 12.5		1.1							
	GPZ	EPN	21 40 50		-0.7	1.88	204	4.1				
		E	58									
		E	41 08.5									
		ESN	13		-0.8							
	MNG	IPN	21 40 49.6	D	-1.5	1.91	46					
		IP•	53.5		0.2							
	TNZ	E	21 41 07			2.84	11			4.6	4.8	
		EP•	10		1.0							
		SN	38		0.7							
		E	54									
	MJZ	EPN	21 41 07.5		0.2	3.10	229			4.3		
		IP•	14		0.4							
		E	22									
		SN	44		0.6							
	CNZ	PN	21 41 07		-0.5	3.11	28					
		E	20									
	TUA	EP•	21 41 31		-0.1	4.12	41			4.4		
		E	42 11									
	KRP	EPN	21 41 23		-0.4	4.29	20					
		EP•	34		0.1							
		I	42 18									
		ES•	32		2.1•							

FELT MANAROA (78) ST ARNAUD (81) MM III

												57/ 457
	H M S											
NOV 11	11 10 10.0		37.81S	176.23E	314 KM	SE	0.5		AVG	MAG		4.5
	+- 0.5		0.03	0.03	3							
			H M S	DIR	RES	DIST	AZ		W-A	W P	W S	
	KRP	P	11 10 50.0		-0.5	0.56	257			4.1		
		S	11 22		-0.2							
	TUA	P	11 10 53.0		-0.4	1.24	144			4.9	5.0	
		S	11 27		-0.1							
	CNZ	P	11 10 55.0		0.1	1.49	201			4.1	4.0	
		ES	11 31		1.3•							
	GNZ	P	11 10 56.0		0.2	1.64	121			4.7	4.5	
		ES	11 31		-0.5							
	ECZ	P	11 10 57.0		-0.1	1.84	87			4.8	4.6	
		S	11 34		0.1							
	TNZ	EP	11 10 59		0.7	2.00	226			3.9	3.6	
		E	11 39									
	ONE	E	11 11 02			2.52	323					
	MNG	P	11 11 06.4		0.5	2.87	191			4.7	4.8	
		S	49.2		-0.5							
	WEL	P	11 11 14.0		0.2	3.66	198		4.9	4.1	4.8	
		S	12 04		0.3							
	COB	ES	11 12 14		-1.1	4.25	218		4.8			

												57/ 458
	H M S											
NOV 11	18 58 11.2		40.91S	175.75E	12 KM	SE	1.4		AVG	MAG		5.2
	+- 0.4		0.02	0.03	R							

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	PG		18	58 18.3	D	-0.5	0.36	325			
WEL	IPG		18	58 26.4		-1.8	0.83	243	5.1	5.0	
	E			28.0							
	SG			37.8		-1.7					
CNZ	P*		18	58 42.2		0.5	1.72	355			
TNZ	EP*		18	58 48.0		1.1	2.02	328		5.4	
	IPG			50.1		-2.0					
	I		59	14.5							
	I			20							
COB	EPN		18	58 48.8		0.8	2.29	265	5.1		
	IP*			53		1.5					
	I		59	18							
	IS*			22		0.3					
TUA	EPN		18	58 50.0		1.0	2.36	28		5.3	5.1
	IP*			54.0		1.3					
	I		59	03.3							
	ESG			28		-2.9					
GNZ	EPN		18	58 56.5		0.5	2.86	38		5.4	
	I		59	21.5							
KRP	E		18	59 00.5			2.99	357		5.3	
	IP*			06		2.6					
	EPG			12		0.3					
	ESG			51		-1.0					
KAI	E		18	59 11			3.63	242	4.7		
	E			19							
	EPG			25		0.4					
	ESN			48		0.1					
	E			55							
ECZ	E		18	59 10.6			3.88	35		5.1	4.8
	E			38							
AUC	P*		18	59 26		3.2*	4.12	349		6.1	
	I			30							
MJZ	PN		18	59 24.2		-0.2	4.97	230			
	EP*			39		1.6					
	ISN		19	00 19		-1.3					
CIZ	PN		18	59 45		0.9	6.44	121			
	SN		19	00 54		-1.6					

FELT WELLINGTON PROVINCE. MAX MM VI AT MASTERTON

57/ 459

	H	M	S							
NOV 11	19	23	53.2	40.90S	175.48E	12 KM	SE	1.4	AVG MAG	3.9
	+-		1.7	0.06	0.12	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	PG		19	23 58.4		-0.8	0.28	1			
	SG			24 02.2		-1.0					
WEL	PG		19	24 06.0		-0.8	0.66	234	3.9	4.0	4.4
	I			07.0							
	ISG			17		1.2					
	I			29							
CNZ	P*		19	24 23.0		-0.3	1.70	2		4.0	3.8
	SG			52		1.6					
TNZ	EPG		19	24 30		-1.7	1.90	333		3.9	
COB	E		19	24 57			2.09	264			
	E			25 00							
KRP	EP*		19	24 46		0.9	2.97	1		3.6	
	ES*			25 25		1.0					

FELT WAIRAIAPA, MAX MM IV

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	H	M	S							
NOV 11	21	26	42.6	40.87S	175.68E	12 KM	SE	2.0	AVG MAG	3.8
	+-		2.4	0.07	0.14	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	PG		21	26 49.0		0.1	0.29	330			
	SG			52.5		-0.6					
WEL	PG		21	26 56.3		-2.6	0.80	239	3.5	4.1	
	I			57.9							

	SG		27	11		1.2				
CNZ	P*		21	27 13.0		0.7	1.67	357	3.8	3.6
	SG			38		-1.1				
TNZ	EP*		21	27 19.5		2.4	1.96	329	3.9	3.7
	E			45						

FELT WAIRARAPA. MAX MM V AT TE ORE ORE (66)

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	H	M	S							
NOV 12	09	24	57.8	40.90S	175.67E	12 KM	SE	1.5	AVG MAG	2.9
	+-		3.7	0.09	0.18	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	PG		09	25 03.4		-1.1	0.31	332			
	SG			08.7		-0.2					
WEL	ESG		09	25 25		0.4	0.79	240	2.7		3.1
CNZ	E		09	25 31			1.70	357			2.7
	ESG			56		0.9					

FELT WASTERTON (66)

57/ 462

	H	M	S							
NOV 12	11	10	02.0	40.86S	175.65E	12 KM	SE	ND	AVG MAG	2.7
		ND		ND	ND	ND				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	PG		11	10 08.0		0.0	0.28	332			
	ESG			12		0.0					
WEL	ESG		11	10 29		0.0	0.79	237		2.9	2.5

FELT WASTERTON (66)

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	H	M	S							
NOV 13	03	15	26.2	40.92S	175.56E	12 KM	SE	1.4	AVG MAG	3.5
	+-		1.5	0.05	0.08	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	PG		03	15 31.8		-1.1	0.31	348			
	SG			36.5		-0.8					
WEL	PG		03	15 39.0		-1.6	0.70	239	3.5	3.6	4.0
	SG			52.0		1.8					
CNZ	EP*		03	15 56.0		-0.8	1.72	360		3.5	3.6
	S*			16 20		0.4					
COB	ES*		03	16 32		-0.5	2.15	265	3.3		
KRP	EP*		03	16 20		1.4	2.99	360		3.3	3.2
	ES*			59		1.1					

FELT TE KOPI (70) MM IV AND MASTERTON (66)

57/ 464

	H	M	S							
NOV 13	09	00	25.1	41.60S	173.79E	12 KM	SE	1.8	AVG MAG	4.6
	+-		0.5	0.03	0.03	R				

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
WEL	IPG		09	00 40.9	U	-0.6	0.80	67	4.8	5.1	
	SG			53.5		1.1					
COB	PG		09	00 44.4		0.1	0.95	303	3.7		
	SG			59		1.8					
KAI	EP*		09	01 00.0		-0.3	2.00	242	4.3		
	EPG			07		1.5					
	S*			26		-0.7					
CNZ	PN		09	01 11.3		2.9	2.75	30		5.1	
	IP*			15.0		1.7					
	E			47.5							
MJZ	E		09	01 20			3.41	225		4.0	
	EP*			24		-0.6					
	E			27							
	EPG			32		-2.1					
	SN			57		0.5					
	ES*			02 08		-1.3					
TUA	EP*		09	01 30		-1.2	3.80	44		4.7	
	EPG			37		-4.9*					
	E			56							
KRP	E		09	01 27.4			3.91	21		4.9	4.6
	EP*			36		2.8					

		ES*		02	23	-1.4					
		ESG			37	-0.1					
	GNZ	E	09	01	51		4.39	49		4.4	4.2
		EPG			53	-0.9					
		E		02	33						
	AUC	I	09	02	10		4.80	10		5.3	
		ISG		03	03	-3.9					
	MSZ	E	09	01	46		5.28	233			4.2
		ESN		02	42	0.5					

FELT NORTHERN MARLBOROUGH AND WELLINGTON CITY

	H	M	S								57/ 467
NOV 13	10	09	10.5	35.81S	178.42E	253 KM	SE	1.6	AVG	MAG	4.7
		+-	1.7	0.08	0.12	16					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	10	09	52.8		0.3	1.88	177		5.1	4.8
	ES		10	25		0.0					
GNZ	P	10	10	01.0		-1.0	2.85	186		4.7	4.8
	S			40.0		-2.1					
KRP	P	10	10	07.0		2.0	3.13	227		4.6	
TUA	EP	10	10	06.5		1.2	3.16	198		4.4	4.7
	ES			50		2.1					
ONE	EP	10	10	05		-1.9	3.30	269			
CNZ	P	10	10	17.0		1.1	4.08	213		4.1	3.7
	ES		11	06		-0.8					
WEL	P	10	10	40		-1.4	6.17	207	5.4		
	S		11	53		0.5					
COB	ES	10	12	09		-0.0	6.90	219	5.0		
CIZ	S	10	13	03		6.4*	9.00	156			

	H	M	S								57/ 468
NOV 13	15	43	41.5	38.20S	176.54E	158 KM	SE	0.9	AVG	MAG	4.5
		+-	0.6	0.03	0.02	6					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	P	15	44	06.0		0.5	0.77	142		4.9	4.8
	S			25.2		1.2					
KRP	P	15	44	05.8		-0.1	0.84	289		4.6	3.8
	S			24.0		-0.8					
GNZ	P	15	44	09.0		-0.4	1.25	111		4.2	4.8
	S			30.0		-0.9					
CNZ	P	15	44	11.2		1.5	1.27	218		4.3	3.8
	E			23							
ECZ	P	15	44	13.8		0.2	1.66	73		4.5	4.5
	ES			38		-0.4					
AUC	P	15	44	17		0.3	1.94	313		5.0	
TNZ	E	15	44	20.2			1.96	239		4.0	
WEL	P	15	44	34.7		0.0	3.38	203	4.7	4.7	4.4
	S		45	15		-0.5					
COB	ES	15	45	32		-0.7	4.12	224	4.6		
KAI	ES	15	46	11		-2.2*	5.84	221	4.6		

	H	M	S								57/ 469
NOV 15	05	04	31.9	41.35S	172.59E	210 KM	SE	1.7	AVG	MAG	3.9
		+-	1.1	0.08	0.07	10					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	EP	05	05	02.5		2.7	0.28	22	3.8		
	S			21		-0.2					
KAI	ES	05	05	33		-0.3	1.47	217	3.6		
WEL	P	05	05	09.0		1.0	1.64	89	4.0	4.4	4.2
	S			35		-0.9					
MNG	P	05	05	15.0		0.3	2.30	73		4.2	3.8
	S			46		-1.7					
GPZ	ES	05	05	50		1.4	2.35	179	3.5		
	E			59							
TNZ	EP	05	05	16.5		-1.0	2.55	33		3.8	3.7
	E			50							
CNZ	P	05	05	24.2		0.3	3.12	47		4.1	

		E		06	04						
	MSZ	P	05	05	45.5	1.1	4.77	224		3.7	3.5
		S		06	38	-2.6					

	H	M	S								57/ 468
NOV 15	12	00	11.9	40.79S	176.16E	12 KM	SE	2.2	AVG	MAG	3.7
		+-	2.5	0.08	0.11	R					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	12	00	23.6		1.4	0.54	288		3.8	4.1
	S*			29		-0.8					
WEL	EP*	12	00	32.8		-0.0	1.16	244	3.3	3.3	3.8
	S*			45.5		-2.9					
CNZ	P*	12	00	42.3		1.0	1.66	343		4.0	3.8
	S*		01	02		-1.3					
TNZ	EP*	12	00	48.5		-0.4	2.10	319		3.8	
	E			54							
COB	E	12	01	20			2.61	262	3.4		
	S*			35		3.1					

	H	M	S								57/ 469
NOV 15	23	31	43.5	34.62S	179.84E	350 KM	SE	1.5	AVG	MAG	4.9
		+-	1.1	0.11	0.14	9					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	P	23	32	45		-0.5	3.24	198		5.0	5.5
	E			33	31						
	S			37		2.9					
GBZ	EP	23	32	45		-6.9*	3.90	245		3.7	
GNZ	P	23	32	54.8		-1.0	4.28	199		5.2	5.2
	I			58.0							
	S			33	51	-1.6					
TUA	EP	23	33	01		0.6	4.71	207		4.5	5.0
	ES			34	00	-0.8					
KRP	P	23	33	00.0		-1.3	4.79	225		4.7	
	ES			34	02	-0.5					
CNZ	P	23	33	12.0		0.3	5.72	216		4.4	4.1
	ES			34	23	2.0					
TNZ	P	23	33	20.5		1.9	6.32	222			
MNG	EP	23	33	23.3		-2.3	6.92	209			
	I			25.4							
	S			34	44	-1.8					
WEL	EP	23	33	35.2		-0.5	7.77	210	5.7		
	S			35	05	1.0					
COB	ES	23	35	20		-0.9	8.56	219	5.2		
GPZ	EP	23	34	11		0.9	10.64	209	5.5		
	S			36	07	1.0					
MJZ	EP	23	34	25		0.6	11.84	215			
	ES			36	31	-0.8					
MSZ	EP	23	34	46		0.8	13.39	219			

	H	M	S								57/ 470
NOV 16	01	17	52.0	30.45S	178.50W	280 KM	SE	3.0	AVG	MAG	6.1
		+-	2.9	0.23	0.52	28					

		H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
ECZ	EP	01	19	46		4.4	7.63	198			
	ES		21	08		0.4					
	E			16							
GBZ	P	01	19	44.0		2.2	7.65	220			
GNZ	EP	01	19	51		-3.5	8.66	198			
	ES		21	33		2.3					
KRP	EP	01	19	58		0.1	8.94	212			
TUA	E	01	20	18			9.08	202			
	ES		21	42		2.1					
CNZ	EP	01	20	11		-0.2	10.01	208			
MNG	EP	01	20	21.0		-5.9	11.27	204			
	E		22	22							
	S			28		-1.1					
WEL	ES	01	22	46		-2.0	12.11	205	6.5		

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	S	01 23 02.5		-0.2	12.77	211	6.0		
KAI	ES	01 23 38		-3.0	14.52	211	5.9		
MJZ	ES	01 24 15		-0.2	16.10	210			
MSZ	EP	01 21 44		1.5	17.78	213			
	ES	24 51		3.0					

57/ [illegible]

H M S

NOV 16 07 28 18.5 40.90S 175.66E 12 KM SE 1.4 AV3 MA3 3.[illegible]

+- 1.4 0.04 0.06 R

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	PG	07 28 24.5		-0.7	0.32	334			
	SG	29.5		-0.2					
WEL	PG	07 28 32.2		-2.2	0.78	240	3.5	3.6	
	I	33.6							
	E	42.8							
	SG	45.8		0.8					
CNZ	P*	07 28 49		0.3	1.70	357		3.5	3.[illegible]
	S*	29 12		0.7					
TNZ	EP*	07 28 55		1.6	1.98	330		3.6	3.[illegible]
	ESG	29 24		-1.2					
COB	E	07 29 22			2.23	264	3.2		
	ES*	28		1.0					

FELT TE ORE ORE (66) MM IV

57/ [illegible]

H M S

NOV 20 09 52 39.4 41.32S 172.57E 236 KM SE 1.2 AV3 MA3 3.[illegible]

+- 0.8 0.06 0.06 7

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
COB	P	09 53 11		0.7	0.27	28			
	ES	35		0.8					
KAI	EP	09 53 16		-0.5	1.48	215	3.7		
	ES	45		-0.2					
WEL	P	09 53 19.7		1.7	1.66	89	4.2	4.2	4.[illegible]
	S	47		-0.8					
MNG	P	09 53 25.4		1.3	2.32	73		4.0	4.[illegible]
	ES	58		-0.8					
GPZ	ES	09 54 00		0.2	2.37	179	3.9		
TNZ	E	09 54 00			2.55	34			
CNZ	EP	09 53 32		-0.7	3.11	48		3.4	3.[illegible]
	S	54 13		-1.2					
MSZ	P	09 53 53.5		0.9	4.78	224		3.7	3.[illegible]
	ES	54 48		-1.5					

57/ [illegible]

H M S

NOV 21 04 12 18.8 40.21S 176.50E 33 KM SE 1.2 AVG MA3 4.[illegible]

+- 0.6 0.02 0.04 R

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	P*	04 12 35.1		-0.5	0.88	242		4.2	
	S*	47		-0.7					
CNZ	PN	04 12 39.8		0.6	1.25	324		4.3	
	ESN	55		0.5					
TUA	EPN	04 12 41		-1.4	1.49	20		4.4	
	EP*	46		0.3					
	I	48.8							
WEL	EPN	04 12 46		0.7	1.70	230	3.7	4.4	
	ESN	13 08		2.7					
	ES*	12		0.1					
	E	12 55							
TNZ	EPN	04 12 50		1.5	1.93	301		4.2	4.[illegible]
	EP*	53.5		0.3					
	S*	13 17		-1.8					
GNZ	EP*	04 12 50		-3.7*	1.96	37		4.0	
	E	13 01							
KRP	EPN	04 12 54		-1.0	2.40	342		3.8	
	EP*	13 01.5		0.2					
	ES*	33.8		0.8					
	I	40							

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KAI	ESN	04 14 13		0.1	4.47	237	4.2		
GPZ	ESN	04 14 13		-0.8	4.51	218	4.2		
MSZ	P*	04 14 31		-1.7	7.75	232			

FELT DANNEVIRKE (63) MM III

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H M S

NOV 21 20 47 13.2 40.86S 175.91E 12 KM SE 2.5 AVG MAG 4.0

+- 2.1 0.10 0.13 R

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	20 47 21.2		0.0	0.41	306			
	E	31.2							
WEL	IP*	20 47 29.8		-1.0	0.97	243	3.5	4.3	4.2
	I	35.2							
	S*	42		-1.9					
CNZ	EPN	20 47 42.5		0.7	1.68	350			4.0
	IP*	46.5		3.5					
	E	48 01.5							
TNZ	EP*	20 47 49		-0.2	2.04	324		4.1	
	E	54							
	E	48 19							
TUA	E	20 47 01			2.26	25			4.1
	ESN	48 13		-3.6					
COB	PN	20 47 50		-1.7	2.42	263		4.0	4.1
	EP*	59		3.4					
	ISN	48 20.0		-0.5					
	E	22							
KRP	EPN	20 48 00		0.9	2.94	354		3.8	
	EP*	07.5		2.9					
	E	24							
	E	28							
	ESN	31		-2.6					

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H M S

NOV 22 21 31 37.9 37.06S 177.57E 228 KM SE 0.7 AVG MAG 4.4

+- 0.6 0.03 0.03 4

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
GNZ	P	21 32 16.0		0.5	1.63	167		4.8	4.8
	S	44.8		0.3					
TUA	EP	21 32 16		-0.9	1.78	191		4.1	4.7
	S	46		-0.9					
KRP	P	21 32 18.0		0.6	1.83	241		4.0	
	S	48		0.2					
AUC	P	21 32 21.5		0.2	2.24	274		5.3	
CNZ	P	21 32 28.0		2.1*	2.67	216		3.8	
ONE	EP	21 32 28		-0.2	2.88	295		3.1	
TNZ	E	21 32 36			3.29	229			
	E	33 26							
MNG	P	21 32 40.8		0.5	3.91	204		4.5	4.5
	S	33 29		0.4					
WEL	P	21 32 51.0		0.4	4.75	206	5.1	4.6	4.6
	S	33 47.2		0.1					
COB	EP	21 32 59		-1.1	5.51	222		4.1	4.5
	ES	34 04		-0.1					

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H M S

NOV 25 17 30 22.0 44.53S 170.02E 12 KM SE 2.0 AVG MAG 3.9

+- 0.6 0.07 0.06 R

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
ROX	EP*	17 30 40.0		-1.4	1.07	208		4.4	4.5
	I	43							
	S*	55		-0.8					
MSZ	E	17 30 48.0			1.51	264			
	IP*	49.0		0.1					
GPZ	EP*	17 31 00		1.6	2.06	67	3.4		
	ES*	27		1.3					
MNW	E	17 30 57.5			2.11	233		4.1	3.9
	EP*	59		-0.2					

		E		31 25							
		S•		30		2.9					
	KAI	EP•	17	31 02		0.6	2.24	27	3.2		
		E		06							
		E		38							
	WPZ	EP•	17	31 01		-1.2	2.29	201		4.0	
		E		25							
		E		36							
	COB	E	17	31 25			3.98	31			
		EP•		28		-3.1					
	MNG	E	17	31 55			5.61	48			

	H	M	S										
NOV 25	22	19	44.4	49.27S	163.85E	33 KM	SE	0.8	AV3	MA3			57/
		+-	1.2	0.13	0.20	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P
	MNW		P	22	20	46.0		-0.9	4.33	38		4.8	
			ES		21	35		0.1					
	ROX		P	22	21	00		-0.2	5.31	46		4.6	
	MSZ		P	22	21	01.0		-0.1	5.38	33		4.7	
			S		22	01		0.7					
	COB		EP	22	22	07		0.0	10.30	41			
			ES		23	57		-0.8					
	WEL								11.08	48			
	MNG		P	22	22	29.5		1.2	11.94	48			

	H	M	S										
NOV 28	04	17	06.3	34.35S	173.49E	12 KM	SE	1.8	AV3	MA3			57/
		+-	1.8	0.14	0.07	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P
	CRZ		P•	04	17	17.8		-1.1	0.67	263		3.9	
			I			19.7							
			E			27.0							
			S•			28.2		0.0					
	ONE		EPN	04	17	34.0		0.2	1.59	153	3.4		
			EP•			37		2.4					
			ES•			53.8		-2.0					
	GBZ		PN	04	17	43.0		-2.7	2.47	139		4.2	
			EP•			49.5		-0.2					
			S•		18	22		-0.3					
	KRP		EP•	04	18	17		2.3	3.93	156		3.6	
			E			23							
			E			42							
			E			58							
	MNG		EPN	04	18	41		1.7	6.45	166			
			E			50							
	COB		EPN	04	18	43		-0.3	6.75	185			
			E		19	59							

	H	M	S										
NOV 30	19	56	24.8	33.71S	178.33W	320 KM	SE	1.2	AV3	MA3			57/
		+-	1.8	0.08	0.16	21							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P
	GNZ		EP	19	57	51		-1.1	5.73	210		4.5	
	TUA		EP	19	57	59		0.7	6.26	214			
			ES		59	13		1.3					
	KRP		EP	19	58	02		0.6	6.51	228			
	CRZ		EP	19	58	13		-0.2	7.49	262			
	MNG		EP	19	58	25		-0.1	8.47	214			
			ES		59	59		-0.8					
	WEL		ES	20	00	17		-1.7	9.33	214	5.4		
	COB		ES	20	00	38		-0.3	10.23	221			
	GPZ		ES	20	01	23		1.4	12.20	213	5.3		

	H	M	S										
DEC 01	05	25	07.4	39.14S	175.49E	139 KM	SE	2.0	AV3	MA3			57/
		+-	1.8	0.06	0.08	17							

			H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	CNZ	IP	05	25	27.1	U	0.9	0.07	145					
		E			47.5									
	KRP	IP	05	25	34.2	UNE	0.8	1.21	2		3.7		3.8	
		ES			52		-1.4							
	TUA	ES	05	25	55		-0.6	1.33	76				4.0	
	MNG	IP	05	25	38.5	U	2.3	1.48	180		4.6		4.3	
		E			51									
		ES			58		-0.3							
		E		26	00									
	GNZ	EP?	05	25	44		1.4	2.03	77		3.9		4.1	
		E		26	01									
		ES			08		-1.6							
	WEL	EP	05	25	46		1.1	2.22	194	3.7	3.9		4.1	
		ES		26	14.5		1.0							
	GPZ	ES	05	27	16		-3.6	5.03	204	4.2				

	H	M	S										
DEC 01	23	38	44.6	39.23S	174.81E	212 KM	SE	1.5	AV3	MA3			57/ 481
		+-	1.1	0.05	0.07	9							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	TNZ	IP	23	39	13.8	U	1.0	0.34	278					
		E			39.5									
	CNZ	IP	23	39	14.4	U	0.9	0.57	87		4.6		4.6	
		ES			36		0.1							
	KRP	EP	23	39	19		0.0	1.42	24		4.1		3.8	
		ES			44.5		-1.1							
	MNG	IP	23	39	21.9	U	2.5	1.48	160		5.1		5.0	
		E			41.5									
		ES			46.5		0.1							
	TUA	EP	23	39	23		-0.1	1.87	78		4.7		5.0	
		E			30									
		E			45									
		ES			52		-0.8							
	WEL	IP	23	39	26.5	U	1.6	2.05	181	5.1	5.1		5.4	
		ES			57		1.1							
	COB	P	23	39	29.8		0.8	2.44	220		5.1		5.1	
		ES		40	03		-0.3							
	GNZ	IP	23	39	30	D	-0.5	2.57	78		4.8		5.2	
		ES		40	04		-2.0							
	KAI	EP	23	39	51		1.3	4.18	217	5.0				
		E			53									
		ES		40	38		-2.1							
	GPZ	EP	24	35	06			4.75	199	5.4				
		ES	23	40	50		-2.8							

FELT MAUNGATANIWHA (42)

	H	M	S										
DEC 02	02	16	05.6	37.94S	177.56E	33 KM	SE	2.3	AV3	MA3			57/ 482
		+-	1.6	0.08	0.08	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W	P	W	S
	GNZ		PN	02	16	20.2	D	0.4	0.80	153			4.0		
	TUA		EPN	02	16	22		0.4	0.93	200			4.0		4.2
			E			28									
			ESN			36		2.6							
			E			43									
	KRP		PN	02	16	29.5	D	-1.3	1.60	270			3.7		3.7
			ESN			48		-1.8							
	CNZ		EPN	02	16	38		1.4	2.02	231			3.6		3.6
			ESN		17	02		2.1							
			ES•			10		1.7							
			E			12.5									
	TNZ		EPN	02	16	50		2.9	2.79	242			3.9		
	MNG		EPN	02	16	50		-1.8	3.13	210			3.7		3.6
			E		17	20									
	WEL		EP•	02	17	12		-3.0	3.98	212	4.2		4.2		4.0
			ESN			46		-1.8							

		ES*		18 07		-0.1					
	COB	EPN		02 17 18		2.3	4.88	228		4.2	4.1
		E		18 23.5							
	GPZ	ESN		02 18 53		-4.0	6.85	211	4.6		
	H M S										57/ 48
DEC 02	13 34 16.5		42.42S	172.86E		12 KM	SE	2.3	AV3 MA3		4.1
	+- 0.5		0.04	0.05		R					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	KAI	EP*	13 34 35.5			-0.6	1.08	264	4.2		
		EPG		37.5		-1.0					
		E		43							
		ES*		49		-1.7					
	GPZ	EPN?	13 34 38			-2.0	1.29	187	3.8		
		E		40							
		EPG		41.8		-0.8					
		E		46							
		ESN		59		1.6					
	COB	IP*	13 34 35.9		U	-4.5	1.33	356		4.8	4.8
		ES*		52		-6.3*					
	WEL	EPN	13 34 45.5			-1.5	1.82	52	4.3	4.7	4.8
		ESN		35 09		-0.4					
	MNG	EPN	13 34 57			-1.6	2.66	48		4.9	4.7
		EP*		35 01		-2.2					
		E		04.5							
		ESN		29		-1.3					
		ES*		39		0.7					
	TNZ	EPN	13 35 09.5			0.6	3.43	20		4.7	4.8
		EPG		23		-2.9					
		ESN		53		4.6					
	CNZ	EPN	13 35 16			2.0	3.81	33		4.7	4.7
		E		18							
		EP*		26		3.2					
		E		48							
		E		36 04							
	ROX	EPG	13 35 39			1.8	3.99	219		4.4	4.3
		ESG		36 29		-1.9					
	MSZ	EPN	13 35 20			0.1	4.24	236		4.0	4.1
		E		38							
		ESN		36 11		2.9					
	TUA	E	13 35 34				4.86	44		4.4	4.3
		ESN		36 25.5		2.4					
	KRP	EPN	13 35 29			-0.2	4.93	25		4.4	4.3
		E		36 20							
	MNW	EP*	13 35 42.5			-1.6	5.06	227		3.9	3.9
		ESN		36 32		4.3					
	GNZ	E	13 35 45.5				5.45	48		4.4	4.3
		EPG		36 03.5		-3.2					
		ESN		37.5		0.4					
		E		37 53							
	ONE	E	13 35 58				6.74	10	4.9		
		ESN		37 10		2.2					
	CRZ	EPN	13 36 10.4			0.6	7.98	359			

FELT MOLESWORTH (89) AND HANMER SPRINGS MM IV

	H M S										57/ 48
DEC 02	17 22 35.5		38.83S	175.66E		180 KM	SE	1.7	AV3 MA3		5.1
	+- 0.7		0.03	0.04		7					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP	17 23 01.4		D	1.4	0.38	193			
	KRP	IP	17 23 02.6		DSW	-0.1	0.91	354		5.2	5.1
		ES		22		-1.8					
	TNZ	IP	17 23 05.7		U	1.9	1.06	250		5.6	5.7
		ES		26.5		0.8					
	TUA	IP	17 23 05.8		D	1.1	1.17	89			
	MNG	IP	17 23 13.0		U	2.3	1.79	184			
	GNZ	IP	17 23 12.0		D	0.6	1.86	85		6.0	5.8

		ES		37		-2.1					
	AUC	EP	17 23 14			0.1	2.09	340		6.1	
	WEL	IP	17 23 21.2		USE	1.9	2.55	195	5.9	5.8	5.6
		ES		53		-0.1					
	COB	IP	17 23 27.8		U	0.8	3.18	224		5.6	5.5
		ES		24 06		-0.7					
	ONE	EP	17 23 28			0.5	3.22	341	5.1		
		ES		24 06		-1.5					
	KAI	EP	17 23 51			2.0	4.91	220	6.0		
		ES		24 44.5		-1.4					
	CRZ	EP	17 23 51			0.8	5.00	330		4.4	4.5
		ES		24 47		-1.1					
		E		25 07							
	GPZ	EP	17 23 55			0.0	5.37	204			
		ES		24 52.5		-4.1					
	CIZ	EP	17 24 25.5			-1.1	7.77	134			
		ES		25 45		-8.4*					

ACCURACY OF CIZ TIMING UNCERTAIN
WIDELY FELT IN CENTRAL NORTH ISLAND MAX INTENSITY MM IV

	H M S										57/ 485
DEC 03	12 47 01.3		37.44S	176.71E		266 KM	SE	1.0	AV3 MA3		4.2
	+- 1.0		0.05	0.06		6					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP	12 47 38			-0.5	1.04	242		3.4	3.2
		ES		48 07		-0.5					
	TUA	E?	12 47 46				1.41	166		4.6	4.7
		ES		48 11		-0.4					
	GNZ	EP	12 47 42			-0.2	1.59	139		4.7	4.6
		E		47							
		E		48 10							
	CNZ	EP	12 47 48.5			3.3*	1.98	207		3.6	3.5
		E		48 18.5							
	TNZ	EP	12 47 53			2.6	2.52	226		4.2	
	MNG	IP	12 47 58.7		U	0.1	3.31	196		4.3	4.3
		E		48 38							
		ES		44		0.8					
	WEL	EP	12 48 08			0.2	4.12	201	4.7	4.1	4.6
		ES		49 00		0.5					
	COB	EP	12 48 14.5			-0.9	4.77	219		3.8	4.4
		ES		49 13		-0.2					
	KAI	ES	12 49 51			-0.3	6.50	217	4.8		
	GPZ	EP	12 48 42			-0.4	6.97	205	5.0		
		ES		50 01		-0.7					

	H M S										57/ 486
DEC 05	20 23 20.0		34.31S	178.08W		281 KM	SE	1.2	AV3 MA3		5.2
	+- 1.1		0.06	0.06		15					
			H M S		DIR	RES	DIST	AZ	W-A	W P	W S
	GNZ	EP	20 24 41.5			0.1	5.34	215		4.8	4.7
		E		25 42							
		ES		47		1.8					
	KRP	EP	20 24 53			-0.0	6.30	233			
		ES		26 04		-2.0					
	CRZ	EP	20 25 09			-0.7	7.64	267			
	TNZ	EP	20 25 13			1.8	7.76	229			
		E		26 00.5							
	MNG	EP	20 25 15.5			-0.0	8.11	217			
		E		20.5							
		E		26 38							
		ES		46		-0.2					
	WEL	ES	20 27 05			-0.4	8.97	217	5.6		
	CIZ	EP	20 25 35			-0.3	9.70	173			
		ES		27 21		-0.9					
	COB	E?	20 25 28				9.93	224			
		ES		27 26		-1.0					
	KAI	ES	20 28 06			1.1	11.62	222	5.4		

	GPZ	ES	20 28 10			0.7	11.82	215	5.3			
	ACCURACY OF CIZ TIMING UNCERTAIN												
	H M S												67/ 487
DEC 06	15 47 12.8		37.29S	176.87E	324 KM	SE	0.7		AVG	MAG	4.1		
	+- 0.6		0.04	0.04	4								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	KRP	IP	15 47 56.1	USW	-1.1	1.24	239		4.3				
		ES	48 31.5		-0.3								
	TUA	P	15 47 58.5	U	-0.4	1.53	172		5.1	4.1			
		E	48 02.7										
		ES	34		-0.8								
	GNZ	IP	15 47 59.0	U	-0.5	1.63	146		4.8	4.1			
		E	48 32										
		ES	37		1.1								
	CNZ	P	15 48 03.7	U	0.3	2.17	208		4.4	3.7			
		ES	43.5		0.6								
	TNZ	EP	15 48 10		1.8*	2.73	225		4.1				
	MNG	EP	15 48 15		-0.5	3.50	198						
		E	59										
	WEL	EP	15 48 24		-0.1	4.31	202		5.0	4.4	4.1		
		ES	49 20		-0.1								
	COB	EP	15 48 32		0.5	4.97	219			4.4	4.2		
		ES	49 32.5		-0.7								
	KAI	ES	15 50 10		0.5	6.71	217		4.7				
	GPZ	ES	15 50 19		-0.4	7.16	205		5.2				
	H M S												67/ 488
DEC 07	05 28 29.9		37.72S	177.41E	33 KM	SE	2.7		AVG	MAG	3.8		
	+- 3.7		0.17	0.23	R								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	TUA	IPN	05 28 49.1	U	0.7	1.11	190		4.5	4.2			
		ESN	59.5		-2.7								
	KRP	EPN	05 28 51		-2.7	1.49	261		3.8				
	CNZ	EPN	05 29 03		1.3	2.08	224		3.6	3.4			
		ESN	27		1.3								
	MNG	EPN	05 29 20		2.1	3.26	207		3.7	3.2			
		E	26										
		E	30 02										
	FELT KAWERAU (34) MM IV												
	OTHER KAWERAU REPORTS NOT CONFIRMED												
	H M S												67/ 489
DEC 10	17 55 07.4		38.27S	176.10E	163 KM	SE	1.9		AVG	MAG	4.1		
	+- 1.5		0.07	0.06	11								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	KRP	P	17 55 30	U	-0.7	0.56	308		3.5	4.1			
		ES	46.5		-2.1								
	TUA	EP	17 55 34		0.6	0.98	123		4.7	4.4			
		ES	53		-0.4								
	CNZ	EP	17 55 36.5		2.8	1.02	205		3.5	3.4			
		ES	57		3.0								
	GNZ	EP	17 55 38.5		-0.3	1.55	104		4.1	4.1			
		ES	56 02		-0.9								
	TNZ	EP	17 55 41.5		2.0	1.63	235		3.6	3.3			
		E	56 14										
	MNG	IP	17 55 48.0	U	-0.3	2.39	191		4.3	4.1			
		ES	56 19		-0.7								
	WEL	IP	17 56 00.1		1.9	3.18	198		4.2	4.4	4.2		
		ES	35		-2.2								
	COB	EP	17 56 06		-0.5	3.83	222						
		ES	50		-2.1								
	H M S												67/ 490
DEC 10	18 34 05.6		41.48S	172.88E	109 KM	SE	1.9		AVG	MAG	4.2		
	+- 0.6		0.04	0.05	8								

			H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	COB	IP	18 34 23.6	U	1.5	0.41	345						
		ES	33		-1.7								
	WEL	IP	18 34 33.2	D	0.9	1.44	83		4.5	4.2	5.0		
		E	48										
		ES	52		-0.3								
	KAI	EP	18 34 36		2.8	1.51	226		4.5				
		ES	54		0.2								
	MNG	IP	18 34 41.1	D	0.0	2.15	67			4.3	4.4		
		E	45										
		E	35 01										
		ES	08.5		0.8								
	GPZ	EP	18 34 44		2.0	2.22	184		4.3				
		ES	35 07		-2.3								
	TNZ	IP	18 34 49.0	D	2.2	2.56	27			4.6	4.4		
		ES	35 19.5		1.8								
	MJZ	EP	18 34 53.5		-0.0	3.07	215			4.0	4.0		
		E	57										
		ES	35 27		-2.8								
	KRP	EP	18 35 08		0.5	4.10	31			4.3	4.0		
		ES	54		-0.8								
	GNZ	ES	18 36 11		-2.3	4.86	56				4.3		
	MNW	EP	18 35 31		1.2	5.75	220			4.0	4.0		
		ES	36 34		-1.0								
	ONE	E	18 35 41			5.81	12			3.2	3.2		
		ES	36 34		-2.7								
	CIZ	ES	18 37 22		-11.9*	8.16	111						
	FELT MOTUEKA (76) MM III												
	H M S												67/ 491
DEC 10	21 16 33.9		46.14S	165.90E	33 KM	SE	2.1		AVG	MAG	4.0		
	+- 2.2		0.14	0.15	R								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	MNW	EPN	21 16 53.5		-0.8	1.25	74		4.4	4.2			
		ESN	17 09		-0.6								
	MSZ	EPN	21 17 07		1.8	2.04	45		4.0	4.1			
		ES*	39		1.7								
	ROX	EPN	21 17 13		1.9	2.48	76		4.0	3.9			
		ESN	42		2.6								
	MJZ	EPN	21 17 29		-1.4	3.89	58		3.6	3.6			
		EP*	38		-3.7								
		ESN	18 13.5		-0.2								
	GPZ	ESN	21 18 51		1.2	5.38	65	4.3					
	COB	E?	21 18 04			7.08	47						
		ESN	19 29		-1.5								
		E	37										
		E	48										
	MSZ TIMES PLUS OR MINUS 2 SEC												
	H M S												67/ 492
DEC 10	23 53 32.5		46.16S	165.75E	33 KM	SE	2.0		AVG	MAG	4.0		
	+- 2.4		0.14	0.14	R								
			H M S	DIR	RES	DIST	AZ	W-A	W P	W S			
	MNW	EPN	23 53 53		-1.4	1.36	75		4.4	4.2			
		ESN	54 08		-2.9								
	MSZ	EPN	23 54 06		1.0	2.13	47		4.1	4.2			
		ES*	39		0.4								
	ROX	EPN	23 54 13		1.7	2.59	76		4.0	3.9			
		ESN	43.5		2.8								
	MJZ	EPN	23 54 29		-1.4	3.99	59		3.6	3.6			
		ESN	55 14		-0.8								
	GPZ	ESN	23 55 51		0.0	5.48	66	4.0					
	COB	E	23 56 39.5			7.17	48						
	MSZ TIMES PLUS OR MINUS 2 SEC												

	H	M	S										57/ 491
DEC 11	08	00	29.9	40.91S	174.51E	12 KM	SE	1.3		AV3	MA3		4.1
		+-	0.4	0.03	0.03	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	WEL	IP*		08	00	40.2	USE	2.0	0.42	153	3.9		
		ES*				49.4		5.1*					
	MNG	IP*		08	00	44.4	D	-0.1	0.79	69		4.1	4.2
		ES*				55		-0.4					
	COB	EP*		08	00	53.8		-0.4	1.36	262		4.3	4.4
		ES*			01	13		0.7					
	TNZ	EPN		08	00	59		-0.1	1.72	357		4.1	4.4
		E			01	17							
		ESN				21		0.4					
	CNZ	IPN		08	01	00.0	D	-1.2	1.88	25		4.3	4.2
		EPG				08		-0.0					
		SN				25		0.7					
		E				39							
	KAI	E		08	01	17			2.83	234	3.6		
		E				46							
	KRP	EPN		08	01	17		-0.6	3.08	15		4.0	3.9
		E				26							
		EPG				30		-2.3					
		ESN				53		-0.4					
		ES*			02	07		2.8					
	GPZ	EPN		08	01	17		-0.9	3.11	206	4.1		
		E				49							
	FELT WELLINGTON (68) MM IV												

	H	M	S										57/ 494
DEC 12	00	56	57.3	40.35S	175.02E	12 KM	SE	2.5		AV3	MA3		3.9
		+-	0.9	0.03	0.06	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*		00	57	04.7	U	-1.1	0.44	127			
		ES*				12.5		0.4					
	WEL	IPG		00	57	15.4	D	-1.2	0.95	192	3.6	4.2	4.3
		ESG				32		2.5					
	CNZ	EPG		00	57	19		-3.1	1.22	20		4.1	4.1
		ESG				39		0.4					
	TNZ	EPG		00	57	23		0.0	1.27	337		3.7	3.5
		ESG				43		2.9					
	KRP	EPG		00	57	43		-4.0	2.46	10		3.7	3.5
		ESG			58	21		0.8					
	GNZ	EP*		00	57	46.5		-1.2	2.88	55		4.1	3.8
		ESG			58	38		3.6					
	KAI	E		00	58	38			3.48	230	4.0		
	GPZ	E		00	58	36			3.78	207	4.0		
	INTERPRETATION DOUBTFUL												

	H	M	S										57/ 495
DEC 13	21	07	07.1	40.10S	175.09E	33 KM	SE	1.6		AV3	MA3		3.9
		+-	0.5	0.03	0.07	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IPN		21	07	18.7	U	0.1	0.60	150		3.9	4.1
		ESN				27		0.1					
	CNZ	IPN		21	07	23.8	D	0.2	0.97	22		4.1	3.9
		ESN				37		1.2					
	TNZ	EPN		21	07	25		0.1	1.06	329		4.1	4.1
		ESN				39		0.9					
	WEL	EPN		21	07	26.8		-0.1	1.21	191	3.7	4.2	4.2
		ESN				41		-0.8					
	KRP	EPN		21	07	43		2.5	2.20	9		3.8	3.8
		EP*				47		0.9					
		ES*			08	13		-2.2					
		ESG				19							
	GBZ	EP*		21	08	12		-2.9	3.89	5		3.5	3.3
		E				18							
		E				38.5							

	H	M	S										57/ 496
DEC 14	07	45	54.6	38.05S	177.32E	33 KM	SE	1.7		AV3	MA3		4.4
		+-	1.1	0.03	0.08	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TUA	EPN		07	46	11		2.6	0.77	190		4.5	4.6
		E				16.5							
		E				24.5							
	KRP	IPN		07	46	17.0	USW	-0.3	1.42	274		4.3	4.0
		ESN				34.5		0.2					
	CNZ	IPN		07	46	24.3	U	1.7	1.80	230		4.3	4.1
		E				49.5							
	GBZ	IPN		07	46	28.3	D	-1.7	2.35	321		4.0	3.9
		EP*				35		-1.1					
	AUC	EP*		07	46	36		-0.1	2.35	300		4.6	4.6
		ESN				58.5		1.6					
	TNZ	EPN		07	46	36		2.9	2.57	243		4.4	3.9
		E				47 11							
	MNG	EPN		07	46	37.6		-0.6	2.94	209		4.3	4.4
		EP*				44		-2.2					
		E				47 12							
		ES*				27		2.2					
	WEL	EPN		07	46	48		-1.8	3.79	211		4.5	4.7
		E				47 00.5							
		ESN				31		-1.1					
		ES*				49		-1.3					
	CRZ	EPN		07	47	09		-0.1	5.21	312		4.0	
	KAI	ESN		07	48	33		-1.1	6.36	223	4.8		
		E				51							
	GPZ	ESN		07	48	35		-6.3*	6.66	211	4.9		
		E				52.5							

	H	M	S										57/ 497
DEC 14	18	06	28.9	40.16S	175.01E	12 KM	SE	1.8		AV3	MA3		3.9
		+-	0.8	0.03	0.09	R							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IP*		18	06	40.4	U	0.6	0.58	142		3.9	3.8
		ES*				48.5		0.6					
	CNZ	IP*		18	06	46.0	U	-1.9	1.05	23		4.1	4.0
		ES*			07	00		-2.0					
	WEL	EP*		18	06	48.8		-0.6	1.14	189	3.9	3.9	4.3
		ES*			07	04		-0.7					
	KRP	EPN		18	07	07		1.6	2.27	11		3.9	3.8
		ESN				35		2.3					
	INTERPRETATION DOUBTFUL												

	H	M	S										57/ 498
DEC 15	04	18	11.6	44.94S	167.64E	107 KM	SE	2.1		AV3	MA3		4.6
		+-	1.5	0.08	0.09	15							
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MSZ	IP		04	18	28.8		1.4	0.33	36			
	MNW	IP		04	18	31.7		0.4	0.84	181			
		ES				43		-3.2					
	ROX	IP		04	18	38.3	D	1.9	1.30	115		4.9	5.3
		ES				57		1.9					
	WPZ	EP		04	18	45		1.1	1.92	154		4.5	4.6
		ES			19	06		-2.0					
	MJZ	P		04	18	49.5	S	1.4	2.23	66		4.1	4.5
		ES			19	15		-0.3					
	KAI	E		04	19	36.5			3.64	50	4.5		
		E			20	16.5							
	GPZ	EP		04	19	10		0.7	3.80	73	4.6		
		E				47							
		S				54.8		1.5					
	COB	EP		04	19	31		0.5	5.36	46		4.1	4.3
		ES			20	30		-1.5					

	WEL	E?	04	19	23		6.36	58	4.7		
		ES		20	52	-4.0					
		E		21	32						
	MNG	EP	04	19	56	0.2	7.20	56			
		E		21	27						

	H	M	S								57/ 491
DEC 15	09	28	32.1	38.44S	175.92E	167 KM	SE	1.2		AV3	MA3 4.1
		+-	1.2	0.04	0.04	8					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	P	09	28	55.3	U	-0.6	0.60	329		4.0	3.4
		S		29	13.1		-1.3					
	CNZ	P	09	28	58.8	D	1.6	0.81	201		4.0	3.3
		E		29	26							
	TUA	EP	09	28	59		0.2	1.03	111		4.2	4.3
		ES		29	19		-0.5					
	TNZ	EP	09	29	04		1.6	1.42	238		3.9	3.4
		ES			27		1.2					
	MNG	IP	09	29	11.6	U	0.7	2.20	189		4.7	4.1
		ES			40.5		-0.4					
	WEL	EP	09	29	20		-0.5	2.98	197	4.2	4.1	4.4
		E			35							
		ES			58		0.3					
	COB	ES	09	30	11		-1.0	3.61	222			3.1
	KAI	ES	09	30	51		-1.2	5.34	219	4.5		
	GPZ	ES	09	30	58		-5.3*	5.81	204	5.0		

	H	M	S								57/ 501
DEC 16	12	58	18.8	38.79S	175.72E	169 KM	SE	1.5		AV3	MA3 4.6
		+-	0.9	0.04	0.05	8					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	IP	12	58	44.6		-0.0	0.87	350		4.3	4.2
		ES		59	02		-2.6					
	TUA	P	12	58	47.6		1.0	1.12	91		4.8	5.2
		E			52							
		E		59	01.5							
		ES			07		-1.0					
	TNZ	IP	12	58	48.0	U	1.4	1.12	249		4.6	4.2
		E			54							
		ES		59	10		2.0					
	MNG	IP	12	58	55	U	1.3	1.84	186		4.9	4.8
		E		59	02							
		E			14							
		ES			20		-0.5					
	AUC	EP	12	58	57		0.8	2.06	339		5.0	
	WEL	IP	12	59	03.1	U	0.4	2.60	196	4.9	4.7	5.2
		E			07.8							
		E			18							
		E			36							
		S			37.7		1.3					
	ONE	EP	12	59	10		-0.1	3.20	340	3.7		
	COB	EP	12	59	10.5		-0.2	3.25	224		4.3	4.3
		E			15							
		E			28							
		S			50.0		-0.6					
	KAI	ES	13	00	28		-2.3	4.97	220	4.9		
	GPZ	EP	12	59	38		-0.9	5.42	204		3.2	4.4
		ES	13	00	36		-5.0*					

FELT MAUNGATANIWHA (42)

	H	M	S								57/ 502
DEC 16	19	32	48.6	38.78S	175.66E	161 KM	SE	2.2		AV3	MA3 3.8
		+-	2.6	0.09	0.11	21					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP	19	33	13		-0.4	0.86	354		2.8	2.9
		ES			31		-1.6					
	TNZ	EP	19	33	17		1.8	1.08	247		3.2	3.2

LOCAL EARTHQUAKES

		E			42					4.5
	TUA	E	19	33	25		1.17	92		
		ES			36	-1.1				
	MNG	IP	19	33	25.0	2.2	1.84	184	4.6	4.3
		ES			50	0.7				
	WEL	EP	19	33	33	1.1	2.59	195	3.7	4.2
		ES		34	06	0.8				
	COB	EP	19	33	41	1.2	3.22	223	3.3	4.2
		ES		34	21	1.9				
	KAI	ES	19	34	56	-3.2	4.94	219	4.2	
	GPZ	ES	19	35	07	-3.2	5.41	204	4.7	

	H	M	S								57/ 502
DEC 16	20	57	08.9	39.76S	174.27E	132 KM	SE	1.1		AV3	MA3 4.2
		+-	0.8	0.04	0.06	9					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	TNZ	IP	20	57	30.0	D	1.1	0.58	9		4.6	4.4
		E			36							
		S			44.2		-0.0					
	MNG	IP	20	57	35.7		0.7	1.26	133			
	WEL	IP	20	57	39.4	USE	1.1	1.57	166		4.9	4.8
		ES		58	00		-0.8					
	COB	EP	20	57	41		0.5	1.77	221		3.0	3.9
		E		58	21							
	KRP	EP	20	57	45		0.6	2.09	29		4.1	3.5
		ES		58	10		-1.5					
	KAI	E	20	58	08			3.50	217	4.5		
		ES			44		-0.4					
	GBZ	E	20	58	18			3.67	16		3.5	3.5
		E			44							
	GPZ	EP	20	58	10		-1.2	4.11	197	5.3		
		ES			53		-6.0*					
		E			54							

	H	M	S								57/ 503
DEC 17	10	37	23.1	37.51S	176.43E	245 KM	SE	1.4		AV3	MA3 4.9
		+-	1.1	0.04	0.07	8					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	KRP	EP	10	37	57.7		0.9	0.82	240			
	TUA	P	10	38	01.0		0.4	1.41	157		5.2	5.2
		ES			28		-1.5					
	GNZ	E?	10	38	13			1.69	133			
		ES			33		-0.3					
	CNZ	P	10	38	05.2	U	1.3	1.82	202		4.6	4.4
		ES			37		1.6					
	TNZ	EP	10	38	11		2.4	2.33	223		4.7	4.3
		E			51							
	ONE	EP	10	38	10		0.6	2.40	315	4.3		
		ES			44		-1.2					
	MNG	IP	10	38	18.1		0.3	3.19	193			
	WEL	P	10	38	26.8	D	-0.2	3.98	198	5.7	4.9	5.5
		E		39	09.5							
		ES			15		-1.7					
	CRZ	EP	10	38	30		-1.1	4.33	314		4.4	
		E			39.5							
	COB	EP	10	38	33		-1.2	4.58	218			
		E			35.7							
		E		39	23							
		ES			29		-0.6					
	KAI	EP?	10	38	58		2.2	6.32	216	5.4		
		E		40	03							
		E			05.5							
		ES			08		-0.3					
	GPZ	EP	10	39	00.5		-1.6	6.82	204	5.8		
		ES		40	15		-4.5*					

FELT AT NGAKAROA (44) AND GISBORNE (45). MAX INTENSITY MM IV

57/ 504

	H M S							
DEC 18	01 07 45.6	47.51S	165.72E	33 KM	SE 1.3	AV3 MA3 5.1		
	+- 1.2	0.08	0.08	R				

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNW	EP	01 08 18		-0.6	2.17	38		5.4	5.1
	ES	42		-1.5					
WPZ	IP	01 08 20.2	U	-0.2	2.30	70		5.1	5.5
	ES	47		0.3					
ROX	EP	01 08 32.5		-0.4	3.21	52		5.0	5.5
	E	49.5							
	ES	09 08		-0.9					
MSZ	P	01 08 33.0		-0.1	3.22	29			
	E	35							
GPZ	EP?	01 09 11.8		-1.3	6.17	54	5.6		
	E	10 34							
	E	57.5							
KAI	E	01 09 39			6.41	41	5.4		
	ES	10 28		1.8					
COB	EP	01 09 40		0.4	8.15	41			
	E	53							
	ES	11 08		0.1					
WEL	ES	01 11 26		-1.6	8.97	49	5.3		
MNG	EP	01 10 04		2.0	9.83	49			
	ES	11 50		2.1					
CNZ	E?	01 10 24			10.95	44			
KRP	EP	01 10 30		-0.1	11.98	40			
	E	11 39							

57/ 505

	H M S							
DEC 18	02 48 06.4	38.19S	176.14E	173 KM	SE 1.3	AV3 MA3 4.1		
	+- 1.9	0.07	0.07	12				

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	EP	02 48 30		-0.7	0.55	299			3.1
	ES	49		-0.4					
TUA	EP	02 48 34		0.5	1.00	128		4.4	4.7
	E	47							
	ES	53.5		-0.9					
CNZ	IP	02 48 36.0	U	1.6	1.11	205		3.7	
MNG	IP	02 48 49.4	U	0.5	2.48	192		4.6	3.9
	ES	49 22.5		1.0					
WEL	ES	02 49 39		0.1	3.27	199	4.2		4.1
COB	E	02 49 51			3.91	221		3.4	3.5
	ES	54		0.5					
GPZ	E	02 50 41			6.10	205	4.7		
	ES	42.5		-2.2					

57/ 506

	H M S							
DEC 20	11 26 31.5	40.40S	175.00E	12 KM	SE ND	AV3 MA3 3.1		
	R	R	R	R				

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	11 26 40.3	U	0.4*	0.43	121			
	ES*	46		0.0*					
WEL	E?	11 26 41			0.90	191			3.1
	S*	27 00		-0.3*					

FELT FOXTON (61), OTAKI (65).

57/ 507

	H M S							
DEC 20	14 56 30.2	39.99S	175.12E	12 KM	SE 2.2	AV3 MA3 4.7		
	+- 0.5	0.02	0.05	R				

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
MNG	IP*	14 56 44.3	U	1.3	0.68	156			
CNZ	IP*	14 56 46.8	D	0.8	0.86	23			
TNZ	IP*	14 56 48.7	U	0.5	0.99	325		5.4	5.5
	ES*	57 06		4.5					
WEL	P*	14 56 53.6	U	-0.3	1.32	192	4.6	4.9	5.2
	E	57 05							

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
	ES*	10		-1.5					
	E	28							
TUA	EPN	14 57 03.5		0.8	1.97	54			5.4
	EP*	06		0.9					
KRP	PN	14 57 02.6		-1.8	2.09	9		5.2	5.2
	EP*	07		-0.1					
	EPG	10		-2.6					
	ESN	28		-1.6					
COB	EPN	14 57 03.8		-0.9	2.12	238		5.0	5.2
	ESN	26		-4.3					
AUC	I(P*)	14 57 25.0	U	-0.0	3.14	355			
KAI	EPN	14 57 28		0.8	3.77	227	4.5		
	EP*	39		3.2					
	ESN	58 10		-0.3					
	ES*	28		2.8					
GBZ	EPN	14 57 30		2.7	3.78	4		4.5	4.0
	EP*	37		1.0					
	EPG	47		0.3					
	ESG	58 32		-5.7*					
GPZ	EPN	14 57 32		-0.1	4.13	206	5.1		
	E	37							
	ESN	58 16		-3.2					
ONE	EPN	14 57 35		1.3	4.25	352		3.4	3.6
	EPG	53		-3.2					
	ES*	58 36.5		-3.2					
	ESG	52.5		-1.1					
CRZ	EPN	14 57 58		2.5	5.88	340		4.5	4.2
	E	58 03.5							
	E	59 17							
CIZ	EPN	14 58 16		0.7	7.35	125			
	E	59 28							

WIDELY FELT IN CENTRAL NORTH ISLAND, MAX INTENSITY MM V - VI

57/ 508

	H M S							
DEC 21	10 07 50.9	38.30S	177.22E	33 KM	SE 2.9	AV3 MA3 3.9		
	+- 2.1	0.08	0.12	R				

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
TUA	IPN	10 08 00.3	U	-0.8	0.51	186		4.8	4.8
	ESN	07		-1.4					
KRP	PN	10 08 12.7		-0.4	1.38	285		3.2	3.3
	ESN	27		-2.8					
CNZ	PN	10 08 14.9		-1.0	1.59	235		3.8	3.7
	ES*	41		0.3					
TNZ	EPN	10 08 28		1.1	2.39	247		3.8	3.4
	E	09 09							
MNG	EPN	10 08 30		-0.8	2.67	210		3.6	3.7
	ES*	09 14.5		1.3					
WEL	SN	10 09 18.7		-3.3	3.53	212	4.2	4.1	4.0
	ES*	35		-3.8					
COB	EPN	10 08 57		2.0	4.44	230		4.1	3.8
	ESN	09 49		4.8					
GPZ	EP*	10 09 46.5		4.8	6.40	211	4.5		

57/ 509

	H M S							
DEC 21	18 57 09.6	37.74S	176.45E	226 KM	SE 2.3	AV3 MA3 4.3		
	+- 1.9	0.07	0.10	14				

Station	Phase	H M S	DIR	RES	DIST	AZ	W-A	W P	W S
KRP	IP	18 57 40.2	D	-0.6	0.75	255		4.0	3.2
	ES	58 04		-1.1					
TUA	EP	18 57 44		0.4	1.20	153		4.8	4.7
	ES	58 11		1.1					
GNZ	IP	18 57 46.7	D	0.5	1.53	127		4.6	4.8
	E	58 07							
	ES	14		-0.5					
GBZ	IP	18 57 44.9	D	-2.8	1.70	333		4.0	
TNZ	EP	18 57 58		5.9	2.17	228		3.8	3.5
	ES	58 34		9.0*					

	MNG	IP	18 58 00.9	D	0.1	2.97	194		4.7	4.8	
		E	34.5								
		ES	40		-0.5						
	WEL	EP	18 58 09		-1.2	3.78	200	4.5	4.2	4.4	
		ES	56		-1.2						
	COB	EP	18 58 19		1.0	4.41	220		4.0	4.2	
		E	59 10								
		ES	12.5		1.4						
	GPZ	ES	18 59 58		-2.9	6.62	205	4.9			

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	H M S									
DEC 21	22 38 09.9	47.19S	165.40E	33 KM	SE 1.3		AV3 MA3		4.5	
	+- 1.3	0.08	0.08	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNW IPN	22 38 42.4	U	0.7	2.08	48				
	WPZ EPN	22 38 47		0.6	2.42	79		4.9	4.9	
	ESN	39 14		-0.1						
	MSZ PN	22 38 56.0		0.7	3.07	36		4.6	4.8	
	E	39 19								
	ESN	31		1.1						
	ROX EPN	22 38 57.5		0.3	3.21	59		4.8	4.8	
	ESN	39 35		1.8						
	MJZ EPN	22 39 17		-1.7	4.79	50		4.1	4.1	
	ESN	40 10		-1.5						
	GPZ EP*	22 39 55		-1.9	6.18	58	4.9			
	E	40 30								
	ES*	41 12		-5.4*						
	KAI E?	22 39 48			6.32	45	4.7			
	E	40 57								
	COB EPN	22 40 02		-0.7	8.06	43				
	ESN	41 29.5		-0.6						
	MNG EPN	22 40 27		1.2	9.80	52				
	E	42 19.5								

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	H M S									
DEC 22	11 36 37.3	32.99S	179.33W	460 KM	SE 3.0		AV3 MA3		5.1	
	+- 3.4	0.39	0.76	35						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP P	11 38 19.0	D	1.3	6.46	219				
	E	39 49								
	TUA EP	11 38 19		1.2	6.47	205				
	ES	39 40		2.8						
	CNZ EP	11 38 29		0.8	7.45	212				
	TNZ EP	11 38 35.5		1.3	8.00	218				
	MNG EP	11 38 38		-3.5	8.67	207				
	E	40.2								
	E	41.0								
	E	42.1								
	ES	40 15		-4.9						
	WEL EP	11 38 51		0.2	9.52	208	5.2			
	ES	40 36		-0.8						
	COB EP	11 38 57		-1.9	10.27	216				
	ES	40 51		-0.6						
	KAI E	11 41 38.5			12.00	215	5.0			
	GPZ ES	11 41 38		4.1	12.40	208	5.0			

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	H M S									
DEC 22	12 16 14.2	38.04S	176.62E	177 KM	SE 1.1		AV3 MA3		3.8	
	+- 1.2	0.05	0.06	7						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP IP	12 16 41.3	U	0.5	0.86	277		3.9	3.8	
	ES	17 01		-0.3						
	TUA EP	12 16 41		0.2	0.87	152		4.0	4.5	
	E	56								
	E	58								
	ES	17 01		-0.4						
	CNZ E?	12 16 39			1.43	216		3.3	3.8	

LOCAL EARTHQUAKES

	ES	17 09		-0.7						
MNG	IP	12 17 00.8	D	0.8	2.72	199		4.3	4.0	
	ES	36		0.8						
WEL	ES	12 17 54		0.8	3.54	203	3.9			
COB	EP	12 17 18.5		-1.0	4.28	223		3.4	3.7	
	ES	18 11		1.1						
GPZ	ES	12 18 58		-1.7	6.40	207	4.5			

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	H M S									
DEC 22	21 58 21.2	44.87S	167.57E	69 KM	SE 1.3		AV3 MA3		4.0	
	+- 1.0	0.04	0.06	12						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
MSZ	IP	21 58 33.1	U	0.1	0.32	51				
MNW	EP	21 58 38.8		-0.2	0.91	178		4.0	4.1	
	ES	51		-1.3						
ROX	ES	21 59 04		1.0	1.37	117			4.1	
WPZ	EP	21 58 56		2.5	2.00	154		3.9	4.3	
	E	59 05.5								
	ES	16		-1.3						
MJZ	EP	21 58 57.5		0.4	2.26	68		3.5	3.7	
	ES	59 24		0.3						
GPZ	E	21 59 53			3.83	74	4.0			
	ES	22 00 03		-0.2						
COB	EP	21 59 40.5		0.2	5.35	47		4.1	4.0	
	ES	22 00 41		-0.3						
MNG	E	22 00 12			7.21	57				
	ES	01 26		-1.2						

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	H M S									
DEC 23	22 41 02.0	38.22S	176.11E	193 KM	SE 1.8		AV3 MA3		4.3	
	+- 1.5	0.08	0.06	9						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
KRP	IP	22 41 28.4	DE	-0.2	0.54	303		4.2	3.5	
	ES	46		-3.0						
TUA	EP	22 41 32.5		1.3	1.01	126		4.7	4.9	
	E	47								
	ES	52		-1.8						
CNZ	IP	22 41 33.3	D	1.6	1.08	204		4.0	3.5	
	ES	56.5		1.7						
TNZ	EP	22 41 39		2.1	1.67	234		4.1	3.5	
	ES	42 06		2.1						
MNG	IP	22 41 46.3	U	1.0	2.45	191		4.9	4.2	
	E	42 14								
	ES	18.5		-0.1						
WEL	EP	22 41 55		0.3	3.24	198	4.3	4.7	4.3	
	ES	42 35		-0.4						
COB	EP	22 42 02		-0.6	3.87	221		3.9	4.4	
	E	03								
	E	13.5								
	ES	49		-0.5						
KAI	ES	22 43 26		-3.1	5.60	218	4.4			
GPZ	ES	22 43 35		-4.9*	6.07	205	5.0			
CIZ	E	22 42 41			7.96	138				
	ES	44 24		-0.4						

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	H M S									
DEC 24	02 36 08.4	39.11S	177.59E	33 KM	SE 1.3		AV3 MA3		4.0	
	+- 1.0	0.03	0.07	R						
		H M S	DIR	RES	DIST	AZ	W-A	W P	W S	
TUA	IPN.	02 36 17.3		-0.7	0.46	311				
CNZ	IPN	02 36 34.3	U	0.8	1.59	266		4.4	4.1	
	ESN	54		1.6						
ECZ	E	02 36 45.5			1.60	28			3.9	
	E	37 11								
KRP	EPN	02 36 38		-1.1	2.00	306		3.9		
	EP*	45		1.0						
	ES*	37 09		-1.5						

	MNG	IPN	02 36 42.9	D	0.9	2.21	226			3.8	3.7
		E	55								
	TNZ	EPN	02 36 47		1.1	2.50	267			3.9	
	WEL	EPN	02 36 53		-0.7	3.07	224		3.8	4.2	3.9
		E	53.8								
		ESN	37 28		-0.3						
	COB	EPN	02 37 09		-0.4	4.22	241			3.9	3.7
		EP*	23		1.2						
		E	38 02								
	GPZ	ESN	02 38 35		-1.9	5.90	217		4.4		

	H	M	S								67/ 516
DEC 24	11	55	25.2	39.09S	175.65E	84 KM	SE	1.7	AV3	MA3	3.2
			+- 1.6	0.06	0.05	23					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	E(P)	11	55	36.5		-1.0	0.13	215			
		E			51							
	TNZ	EP	11	55	46		1.3	0.99	264		3.0	2.7
		E			56 06							
	KRP	EP	11	55	46.5		-0.5	1.17	356		2.9	2.3
		ES			56 03		-0.3					
	TUA	P	11	55	47.8		0.3	1.21	77		3.9	3.7
		ES			56 06		1.7					
	MNG	EP	11	55	49		-2.7	1.53	185		3.4	3.4
		E			52							
		E			56 14							
	WEL	E	11	56	36			2.29	197	3.2		3.1
	COB	EP	11	56	11.5		-0.2	2.99	227		3.2	3.3
		E			21							
		ES			48		1.2					

INTERPRETATION DOUBTFUL
FELT OHAKUNE (49)

	H	M	S								67/ 517
DEC 24	14	39	07.7	40.32S	175.62E	12 KM	SE	2.0	AV3	MA3	5.1
			+- 0.4	0.03	0.04	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	MNG	IPN	14	39	19.6	U	-0.1	0.32	200			
	WEL	IP*	14	39	29.8	USW	1.1	1.17	214	4.8	5.3	5.2
		E			46							
		ESG			48		0.8					
	TNZ	IPN	14	39	33.7	U	-0.0	1.48	319		5.4	5.4
		ESN			52.7		-0.3					
	TUA	PN	14	39	39.0		-0.4	1.91	39		4.8	4.8
		EPG			45.5		-0.9					
		E			56							
		ES*		40	07.5		0.7					
	COB	PN	14	39	44		-1.0	2.33	250		5.1	5.4
		P*			48.0		-0.6					
		E		40	02.5							
		ES*			16		-3.3					
	KRP	EPN	14	39	44.5		-1.3	2.39	358		5.0	5.1
		P*			46.4		-3.2					
		ESN		40	14		-0.3					
	ECZ	EPN	14	39	59		-1.5	3.47	42		5.7	5.5
		EPG		40	17		-0.8					
		ESN			41		0.5					
	AUC	EPN	14	40	06		4.9	3.51	349			
		ES*		41	08		13.1*					
	KAI	EPN	14	40	06		0.1	3.86	234	4.7		
		E			44.5							
	GPZ	EPN	14	40	11		2.7	4.04	212	4.9		
		E			50							
	ONE	EPN	14	40	18		1.6	4.64	347	4.5		
	CRZ	EPN	14	40	41		2.1	6.32	337			
		E		41	46							
	CIZ	EPN	14	40	48		2.0	6.85	125			

		ESN	41 59		-2.7							

WIDELY FELT IN CENTRAL NORTH ISLAND
MAX INTENSITY MM V AT HUNTERVILLE (58)

	H	M	S								67/ 518
DEC 24	19	15	00.6	33.00S	179.22E	272 KM	SE	2.5	AV3	MA3	4.7
			+- 2.6	0.13	0.15	26					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	ECZ	ES	19	17	14		2.2	4.71	186			4.4
	CRZ	EP	19	16	28		2.7	5.63	254		4.3	
	KRP	EP	19	16	24		-2.8	5.76	210		3.8	3.7
		ES		17	31		-3.3					
	MNG	E	19	16	50			8.17	200			
		EP			54		-2.9					
		ES		18	28		-0.1					
	WEL	EP	19	17	09		1.8	9.00	202	5.6		
		ES		18	47		0.3					
	COB	EP	19	17	14		-0.6	9.39	211			
		ES		19	03.5		3.5					
	KAI	E	19	18	43			11.33	211	5.4		
		ES		19	39		-0.4					
	CIZ	ES	19	19	42		0.6	11.42	164			
	GPZ	ES	19	19	50		-1.1	11.85	204	5.6		

	H	M	S								67/ 519
DEC 25	16	03	04.8	39.16S	175.28E	160 KM	SE	2.1	AV3	MA3	3.9
			+- 1.5	0.06	0.08	12					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP	16	03	27.8	D	1.3	0.21	100			
		ES			42		-1.1					
	TNZ	EP	16	03	30		1.5	0.70	268		3.6	3.3
		ES			49		2.2					
	KRP	IP	16	03	33.0	DSW	-0.0	1.25	9		4.2	3.0
		ES			52		-2.6					
	MNG	P	16	03	36.9	U	1.9	1.46	174		4.4	3.7
		ES			57.5		-0.7					
	TUA	P	16	03	35.7		0.3	1.50	77		4.0	4.3
		E			38.5							
		E			50.8							
		ES			58		-0.9					
	WEL	EP	16	03	44.5		1.8	2.16	190	4.0	4.1	4.3
		E		04	12							
		ES			13.5		1.6					
	COB	EP	16	03	51		1.0	2.74	225		3.8	3.9
		ES		04	22		-2.6					
	GPZ	ES	16	05	12		-3.4	4.94	203	4.4		

	H	M	S								67/ 520
DEC 26	08	15	42.7	39.25S	176.35E	100 KM	SE	1.7	AV3	MA3	4.7
			+- 0.7	0.03	0.04	8					

			H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S
	CNZ	IP	08	15	59.5	U	-0.3	0.63	274			
	WNZ	EP	08	15	59		-1.0	0.65	342		5.0	5.3
		E		16	04							
		ES			13		-0.1					
	TUA	P	08	16	02.8		1.8	0.76	55			
	KRP	IP	08	16	09.3	DSE	0.1	1.47	334		4.8	4.7
		ES			26		-3.0					
	MNG	IP	08	16	11.3	U	1.4	1.52	206		4.9	4.8
		ES			31		0.8					
	TNZ	IP	08	16	11.3	D	1.3	1.53	272		4.9	4.5
		E			19							
		ES			30		-0.4					
	WEL	P	08	16	21.1	U	0.3	2.37	210	4.5	4.7	4.9
		E			34							
		ES			49		-0.3					
	AUC	E	08	16	29			2.69	332			

		ES			57	-0.1					
	COB	EP	08	16	35	1.1	3.32	235		4.8	4.3
		E			37.5						
		E			46						
		ES			17 14	1.3					
	ONE	EP	08	16	43.5	2.9	3.81	335	4.3		
		ES			17 24.5	-0.1					
	KAI	E	08	17	03		4.97	227	4.5		
		E			20						
		ES			50	-3.2					
	GPZ	E	08	17	15		5.24	211	5.1		
		ES			54	-5.8*					
	CRZ	E	08	17	14.5		5.64	327		4.1	4.1
		ES			18 09	-0.5					
	CIZ	E	08	17	30		7.09	134			
		E			18 39						
		ES			43	-2.1					

FELT IN PARTS OF HAWKES BAY AND CENTRAL NORTH IS., MAX. INTENSITY MM IV.

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	H	M	S											
DEC 26	14	18	04.4	35.69S	178.24E	294 KM	SE	2.1		AV3	MA3	4.4		
			+- 1.6	0.08	0.11	16								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	EP		14	19	01		-0.3	3.11	223		3.8		
		ES				48		2.4						
	ONE	EP		14	19	01		-0.7	3.15	267	4.1			
	TUA	EP		14	19	01		-1.5	3.23	195		4.6	4.7	
		E				39								
		ES				44.5		-3.4						
	CNZ	IP		14	19	12.9	U	0.9	4.11	211		4.1	3.8	
		ES			20	09		4.2						
	TNZ	E		14	20	02			4.65	220			3.3	
	CRZ	EP		14	19	20		0.9	4.73	284		4.0		
	MNG	P		14	19	25.8		-0.9	5.38	203		4.3	4.3	
		E			20	23								
		ES				29.5		-1.7						
	WEL	EP		14	19	36		-0.8	6.22	205	5.4			
		ES			20	47.5		-1.7						
	COB	EP		14	19	45		-0.2	6.91	217				
		ES			21	05		0.7						
	GPZ	ES		14	21	52		-0.5	9.08	207	5.2			
	CIZ	E		14	20	24			9.17	156				
		ES			21	57		2.6						

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	H	M	S											
DEC 27	01	44	29.8	37.74S	176.43E	219 KM	SE	1.2		AV3	MA3	4.3		
			+- 1.1	0.05	0.07	7								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	KRP	IP		01	44	58.8	USW	-1.4	0.73	255		4.0	3.8	
		ES			45	23		-0.7						
	TUA	EP		01	45	04		0.9	1.21	152		4.5	4.7	
		E				27								
		ES				29		0.1						
	CNZ	IP		01	45	07.1	U	0.7	1.62	205		3.8	3.8	
		E				43								
	TNZ	EP		01	45	13		1.3	2.17	227		4.1		
	MNG	IP		01	45	20.1	U	-0.5	2.97	194		5.0	4.5	
		ES			46	00		0.1						
	WEL	EP		01	45	29		-1.1	3.77	199	4.3	4.3	4.3	
		ES			46	17		0.3						
	COB	EP		01	45	38.5		0.7	4.41	219		3.8	4.2	
		ES			46	32		1.3						
	GPZ	ES		01	47	19		-1.8	6.61	205	4.8			

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	H	M	S											
DEC 27	02	07	11.3	38.88S	175.19E	224 KM	SE	1.1		AV3	MA3	4.1		
			+- 1.1	0.05	0.06	8								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ	IP		02	07	42.2	D	1.1	0.42	139				
		ES			08	05		0.9						
	TNZ	EP		02	07	42.5		0.4	0.70	244		3.6		
	KRP	P		02	07	43.7		0.0	0.99	16		3.3		
		E			08	06.5								
	TUA	EP		02	07	47		-0.7	1.53	88		4.4	4.6	
		ES			08	14		-1.9						
	MNG	IP		02	07	50.5		0.9	1.75	173		4.8	4.2	
		E			08	11.5								
		ES				19		-0.2						
	WEL	EP		02	07	57		0.7	2.42	188	4.1	4.1	4.2	
		ES			08	32		0.9						
	COB	EP		02	08	00.7		-0.9	2.90	220		4.5	3.7	
		ES				39		-1.5						
	GPZ	ES		02	09	30		0.2	5.18	201	4.0			

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	H	M	S											
DEC 27	03	57	03.0	40.23S	177.07E	12 KM	SE	1.4		AV3	MA3	4.0		
			+- 1.3	0.06	0.10	R								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	MNG	PN		03	57	27.1	U	0.8	1.27	252		4.4		
	TUA	PN		03	57	27.6		-0.7	1.42	3		4.7		
	CNZ	IPN		03	57	28.8	D	-1.3	1.56	311		4.6		
	WEL	PN		03	57	37.6		1.1	2.04	238	3.4	3.9	3.9	
		ESN			58	02		0.8						
		E				25								
	TNZ	EPN		03	57	39		-1.2	2.32	296		4.0	3.5	
		EP*				46		2.2						
		ES*			58	29		14.7*						
	KRP	E?		03	57	35			2.59	332		3.3	3.5	
		EP*				49		0.6						
	COB	EPN		03	57	55		-0.0	3.41	254		4.2	3.8	
		E			58	08								
		ESN				32.5		-1.8						
	GPZ	ESN		03	59	07		-0.6	4.78	222	4.3			

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	H	M	S											
DEC 28	02	51	56.1	37.71S	177.28E	90 KM	SE	1.6		AV3	MA3	3.7		
			+- 1.9	0.09	0.10	25								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	TUA	P		02	52	16.9		-0.4	1.10	185		4.5		
	KRP	IP		02	52	24.3	DE	3.1	1.40	261		3.7	3.1	
		ES				39		-0.9						
	CNZ	IP		02	52	28.1	D	-0.9	2.02	222		3.9	3.7	
		E				47								
	TNZ	EP		02	52	38		-0.8	2.71	236		3.5	3.1	
		ES				53 10		-0.8						
	MNG	EP		02	52	45		-0.7	3.22	205		3.7	3.7	
		ES				53 24		0.8						
	WEL	ES		02	53	45		1.0	4.07	208	4.4			
	COB	EP		02	53	08		-0.5	4.88	225		4.0	3.8	
		E				54								

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	H	M	S											
DEC 29	08	25	31.2	38.99S	175.70E	134 KM	SE	2.0		AV3	MA3	3.9		
			+- 1.7	0.08	0.07	16								
				H	M	S	DIR	RES	DIST	AZ	W-A	W P	W S	
	CNZ	IP		08	25	51.8	D	1.9	0.24	209				
		E			26	04								
	TNZ	EP		08	25	53.5		-1.7	1.04	259		3.7	3.3	
		ES			26	12.5		-1.0						
	KRP	IP		08	25	55.9	U	0.4	1.07	353		3.4	3.0	

		E		26 12								
	TUA	EP	08	25 54.5		-1.8	1.15	81		4.2	4.1	
		ES		26 14.5		-0.9						
	MNG	IP	08	26 04.1	U	2.6	1.63	186		5.0	4.1	
		E		25								
	WEL	EP	08	26 13		2.1	2.40	197	3.6	3.9	3.8	
		ES		41		-0.1						
	COB	EP	08	26 21		1.0	3.09	226		3.7	4.1	
		ES		59		1.9						
	KAI	ES	08	27 36		-1.8	4.80	221	4.3			
	GPZ	ES	08	27 45.5		-2.6	5.23	205	4.3			

	H	M	S								67/ 337
DEC 30	07	10	14.4	39.55S	174.26E	202 KM	SE	1.6	AV3	MA3	4.5
		+-	1.0	0.05	0.06	8					

			H	M	S	DIR	RES	DIST	AZ	W-A	M P	M S
	TNZ	EP	07	10	43		1.6	0.37	15			
		ES		11	03.5		1.3					
	CNZ	IP	07	10	46.2	U	1.3	1.06	71		4.2	4.2
		ES		11	08		-0.5					
	MNG	IP	07	10	49.9	U	2.1	1.42	139		4.6	4.8
		E			58.5							
		E		11	07							
		S			13.5		-0.2					
	WEL	IP	07	10	53.0	U	1.8	1.78	168	4.1	4.5	4.3
		ES		11	19		-0.5					
	KRP	EP	07	10	51.5		-0.9	1.90	32		3.7	3.3
		ES		11	20		-1.7					
	COB	IP	07	10	53.9	U	1.2	1.93	217		5.0	4.7
		E			55.5							
		E		11	17.5							
		S			21.5		-0.7					
	TUA	P	07	10	58.0		0.7	2.36	73		4.9	4.4
		ES		11	28.5		-1.9					
	KAI	E	07	11	48			3.68	215	4.2		
		ES			55		-3.0					
	ECZ	P	07	11	14.2		-0.6	3.83	62		5.0	
	GPZ	EP	07	11	21		0.1	4.32	196	5.2		
		S		12	08.3		-4.1*					

	H	M	S								67/ 331
DEC 31	18	26	08.9	44.01S	168.81E	33 KM	SE	2.3	AV3	MA3	3.5
		+-	1.0	0.08	0.08	R					

			H	M	S	DIR	RES	DIST	AZ	W-A	M P	M S
	MSZ	EP	18	26	23		-1.8	0.92	224		3.5	
		ES			34		-2.5					
	MJZ	IP	18	26	28.5		-0.0	1.19	89		3.1	3.3
		ES			42		-1.2					
	ROX	EP	18	26	32.5		-0.3	1.50	166		3.9	4.1
		ES			50		-0.8					
	MNW	EP	18	26	42		2.9	1.96	205		3.5	3.5
		E		27	08							
	WPZ	EP	18	26	52		3.5	2.65	179		3.7	
	COB	EP	18	27	10		1.4	4.11	46		3.4	3.5
		ES			53		-1.3					
	MNG	E	18	27	42			5.99	58			3.2

	H	M	S								67/ 331
DEC 31	22	13	36.2	38.41S	175.84E	216 KM	SE	1.3	AV3	MA3	4.3
		+-	1.0	0.05	0.05	8					

			H	M	S	DIR	RES	DIST	AZ	W-A	M P	M S
	KRP	IP	22	14	05.2	UNE	-0.2	0.54	334		4.3	3.4
		ES			27		-1.0					
	CNZ	IP	22	14	08.1	D	1.4	0.82	196		4.2	3.4
		E			36.5							
	TUA	P	22	14	09.0		0.5	1.10	111		4.6	4.9
		E			26							

	ES			33		-0.5					
TNZ	EP	22	14	12		1.5	1.38	235		3.7	
MNG	P	22	14	20.1		1.6	2.22	187			
	E			46							
ECZ	EP	22	14	19		0.1	2.26	72		4.4	4.2
	ES			51		-0.8					
WEL	P	22	14	27.4	U	0.4	2.99	196	4.6	4.5	4.6
	ES		15	07		0.6					
COB	EP	22	14	33		-1.1	3.59	221		4.0	4.4
	E			37							
	ES		15	19		0.0					
KAI	ES	22	15	54		-3.5*	5.32	218	4.3		
GPZ	EP	22	15	02		0.1	5.81	204	4.9		
	ES		16	06		-2.6					

FELT EARTHQUAKES

THE FELT REPORTING SYSTEM

In addition to its instrumental network, the Observatory has organised a network of about 400 voluntary observers covering the country, who describe the effects of any earthquakes they feel on a standard form. The Observatory also received many unsolicited reports from meteorological observers, radio and newspaper reporters, postmasters and members of the general public. In the case of large earthquakes, or ones that present features of special interest questionnaires are issued or the district visited.

Several difficulties arise in assessing the distribution of felt intensity. The population of the country is very unevenly distributed, and the observer's personal circumstances may prevent him from feeling a shock that has been noticed by others. Similar shortcomings affect lists of earthquakes felt at any one place. It may reasonably be assumed that a strong earthquake reported from one township was felt in another a few miles distant, even though the Observatory has received no report. However, an index of this kind must summarise the data and not the deductions, so the following scheme is used.

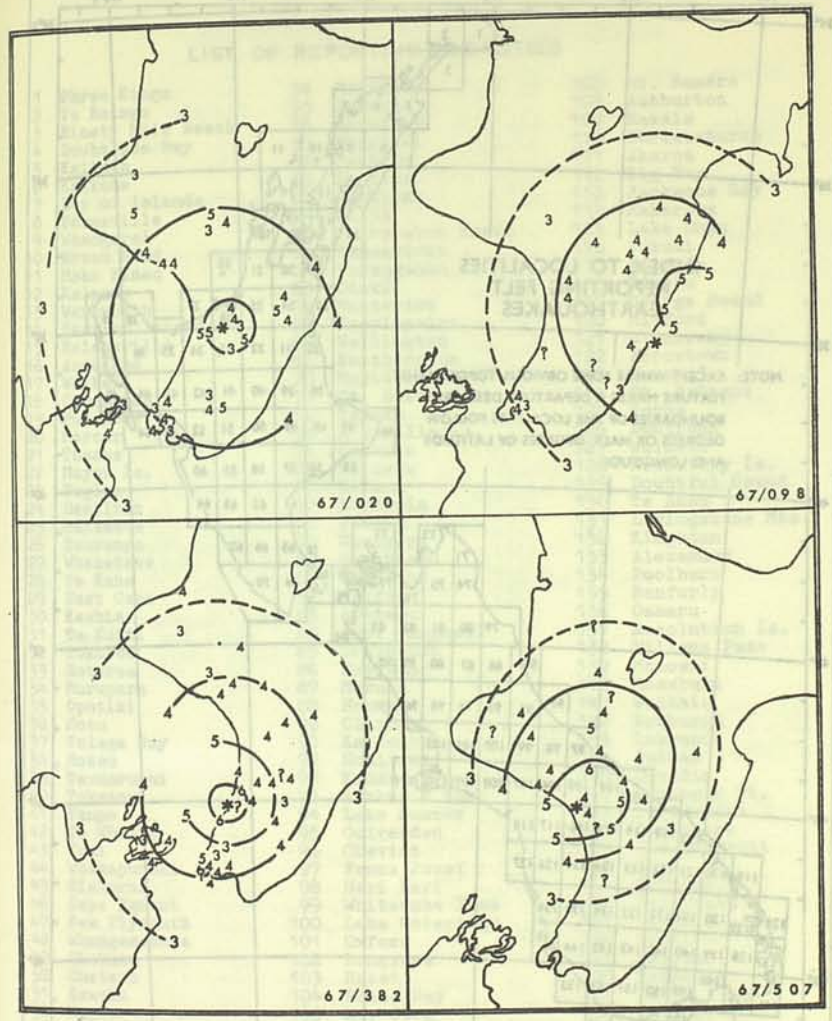
The land area of New Zealand has been divided into numbered rectangles, with sides measuring half a degree of latitude or longitude, as shown on the accompanying map. Each rectangle is given a number and a name, usually that of the principal centre of population within it. These areas are termed 'localities', and the names are listed on the following page. In most areas, there are at least two well-separated reporters, but there are still some sparsely populated parts of the country without observers, notably in Fiordland, the mountainous parts of Southland, and on the boundary between Nelson and Marlborough.

The first section of the index gives the names of the actual places from which each earthquake was reported, together with the number of the locality. Intensities on the Modified Mercalli scale (N.Z. version, 1965) have been assigned at the Observatory. This intensity scale is set out in the N.Z. Journal of Geology and Geophysics, Vol. 9, pp. 122-9, 1966. A ? indicates that no information is available beyond the fact that the shock was felt, or that the description is too imprecise to allow an intensity to be assigned.

In the second section, localities reporting shocks during the year are listed in alphabetical order, followed by the number of the shock in the list of origins and the maximum intensity reported within that locality. By comparing the reports in neighbouring localities, it is possible to form a truer estimate of the incidence of felt earthquakes than would be possible from a simple list of places reporting each shock.

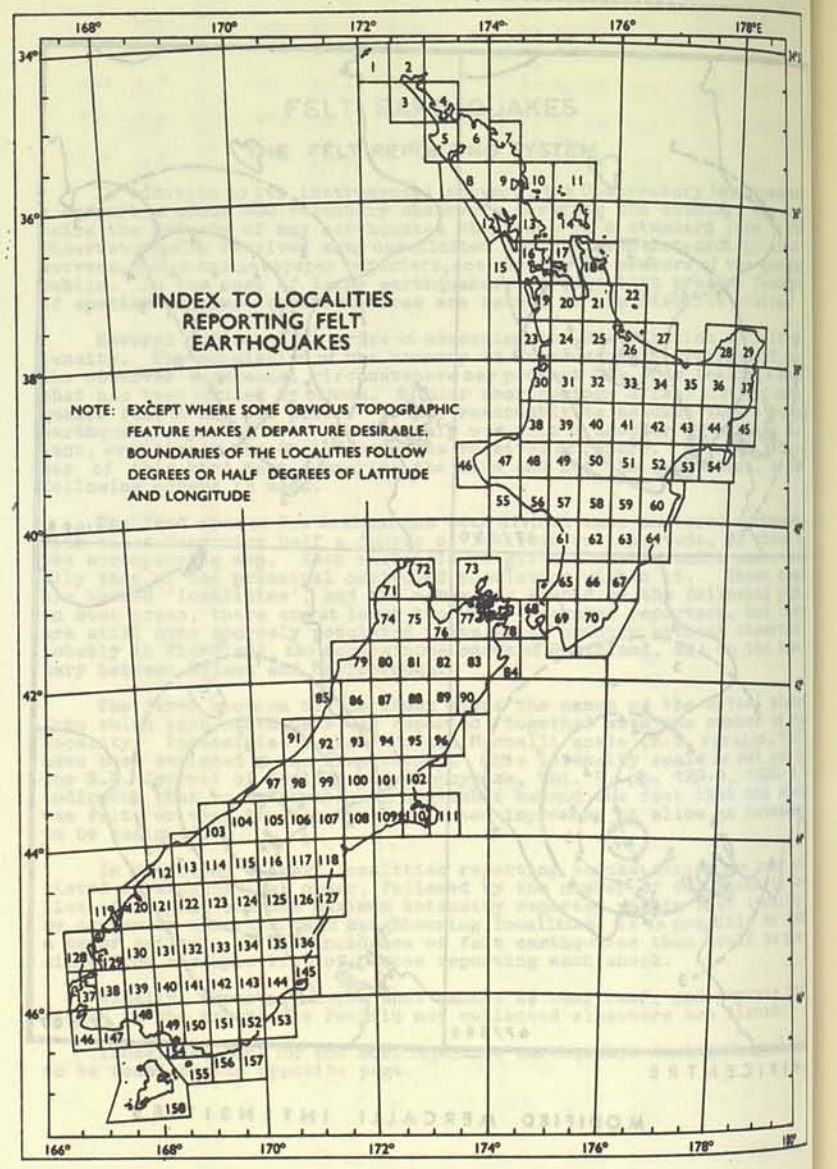
Finally, reported shocks that cannot be confirmed, and reports from places in the south-west Pacific not collected elsewhere are listed.

Isoseismal maps for the most important earthquakes during the year are to be found on the opposite page.



* EPICENTRE

MODIFIED MERCALLI INTENSITIES



LIST OF REPORTING LOCALITIES

1 Three Kings
2 Te Reinga
3 Ninety Mile Beach
4 Doubtless Bay
5 Kaitaia
6 Kaikohe
7 Bay of Islands
8 Dargaville
9 Whangarei
10 Bream Head
11 Moko Hinau
12 Kaipara
13 Warkworth
14 Barrier Islands
15 Helensville
16 Auckland
17 Waiheke
18 Coromandel
19 Pukekohe
20 Mercer
21 Thames
22 Mayor Is.
23 Raglan
24 Hamilton
25 Matamata
26 Tauranga
27 Whakatane
28 Te Kaha
29 East Cape
30 Kawhia
31 Te Kuiti
32 Tokoroa
33 Rotorua
34 Murupara
35 Opotiki
36 Motu
37 Tolaga Bay
38 Mokau
39 Taumarunui
40 Tokaanu
41 Taupo
42 Te Whaiti
43 Tuai
44 Whakapunaki
45 Gisborne
46 Cape Egmont
47 New Plymouth
48 Whangamomona
49 Ohakune
50 Chateau
51 Kaweka
52 Napier
53 Wairoa
54 Mahia
55 Hawera
56 Waverley
57 Wanganui
58 Taihape
59 Ruahine
60 Hastings
61 Bulls
62 Palmerston North
63 Dannevirke
64 Porangahau
65 Otaki
66 Masterton
67 Castlepoint
68 Wellington
69 Featherston
70 Martinborough
71 Mt. Stevens
72 Takaka
73 D'Urville Is.
74 Karamea
75 Motueka
76 Nelson
77 Blenheim
78 Picton
79 Westport
80 Murchison
81 Glenhope
82 Wairau
83 Awatere
84 Cape Campbell
85 Greymouth
86 Reefton
87 Maruia
88 Hanmer
89 Clarence
90 Kaikoura
91 Hokitika
92 Kumara
93 Arthur's Pass
94 Lake Sumner
95 Culverden
96 Cheviot
97 Franz Josef
98 Hari Hari
99 Whitcombe Pass
100 Lake Coleridge
101 Oxford
102 Rangiora
103 Haast
104 Bruce Bay
105 Mt. Cook
106 Tekapo
107 Mt. Somers
108 Ashburton
109 Rakaia
110 Christchurch
111 Akaroa
112 Big Bay
113 Jacksons Bay
114 Makarora
115 Lake Ohau
116 Pukaki
117 Fairlie
118 Timaru
119 George Sound
120 Milford
121 Glenorchy
122 Arrowtown
123 Wanaka
124 St. Bathans
125 Kurow
126 Duntroon
127 Waimate
128 Secretary Is.
129 Doubtful Sound
130 Te Anau
131 Livingstone Mts.
132 Kingston
133 Alexandra
134 Poolburn
135 Ranfurly
136 Oamaru
137 Resolution Is.
138 Pillans Pass
139 Monowai
140 Mossburn
141 Waikaia
142 Roxburgh
143 Lawrence
144 Outram
145 Dunedin
146 Puysegur Pt.
147 Poteretere
148 Tuatapere
149 Invercargill
150 Gore
151 Clinton
152 Balclutha
153 Waihola
154 Bluff
155 Ruapuke
156 Tahakopa
157 Owaka
158 Stewart Is.
159 Chatham Is.

PLACES REPORTING FELT EARTHQUAKES

67/004 Jan 3d 07h 31m
MM4 Te Marae (56).

67/005 Jan 3d 15h 21m
MM4 Arowhenua, Timaru (118).

67/009 Jan 5d 09h 37m
MM4 Pukerua Bay (68); Trentham, Upper Hutt (69).

67/013 Jan 9d 13h 31m
MM4 Lower Hutt (68); Ocean Bay (78);
MM3 Blenheim (83);
felt Picton (78); Seddon (84).

67/014 Jan 10d 05h 46m
MM4 Bunnythorpe (62);
MM3 Dannevirke (63).

67/019 Jan 14d 10h 12m
MM4 Ocean Bay (78);
MM3 Wellington (68).

67/020 Jan 16d 11h 40m (See Isoseismal Map, p. 221.)
MM5 Omoana (48); Ohakune (49); Foxton, Opiki (61); Dannevirke (63); Eketahuna (66); Te Kopi (70);
MM4 Waitotara (56); Okoia, Wanganui (57); Moawhango (58); Waipawa (60); Bunnythorpe, Pahiatua, Palmerston North (62); Eastry (66); Elsdon, Kelburn, Khandallah (68); Ponatahi (70); Ocean Bay (78);
MM3 Purangi (48); Ohakune (57); Mangahao (62); Masterton (66); Kelburn, Lyall Bay, Miramar, Northland (68); The Brothers (78);
"heavy" Purunui (66);
"moderate" Tirohanga (65);
felt Lake Alice (61).

67/021 Jan 16d 12h 06m
felt Foxton, Lake Alice (61).

67/022 Jan 16d 23h 59m
MM4 Tataramoa (63);
MM3 Dannevirke (63).

67/025 Jan 18d 16h 43m
MM4 Moawhango (58).

67/026 Jan 19d 20h 28m
MM4 Kaimai (25).

67/028 Jan 20d 16h 09m
MM3 Moawhango (58).

67/031 Jan 25d 11h 56m
MM3 Minaret Stn (114).

67/035 Jan 30d 07h 36m
MM4 Ohakune (49); Ohakune (57);
"slight" Owhango (39).

67/038 Jan 31d 17h 14m
MM4 Wairere (66);
MM3 Dannevirke (63).

67/039 Feb 1d 20h 01m
MM4 Ohakune (57);
"light" Owhango (39);
? Kaipore (57).

67/041 Feb 6d 05h 41m
"slight" Cape Campbell (84).

67/046 Feb 13d 10h 30m
"slight" Wairakei (41).

67/048 Feb 14d 17h 38m
MM3 Moawhango (58).

67/050 Feb 19d 08h 49m
MM5 Mangles Valley (80).

67/051 Feb 21d 05h 10m
MM5 Dawson's Falls (47);
MM4 Omoana, Purangi (48); Taurewa Forest (50); Waitotara (56); Okoia (57); Hunterville (58); Opiki (61); Dannevirke (63); Pa Valley, Wairere (66);
MM3 Wanganui (57);
"moderate" Owhango (39);
"light" Mangahao (62); Purunui (66);
felt Awakino (38); New Plymouth (47); Makakahi (49); Kaipore (57); Palmerston North (62); Waitarere (65); Hokio Beach (67).

67/053 Feb 21d 14h 00m
MM5 Tuatapere (148);
MM4 Orawia (148); Halfmoon Bay (158);
MM3 Manapouri (148);
felt Eastern Bush (139);
not felt Otautau (148); Riverton (149).

67/067 Mar 8d 09h 52m
MM5 Makara (68);
MM4 Kelburn, Khandallah, Lower Hutt, Lyall Bay, Newtown, Northland, Wainuiomata (68); Ponatai (70); Stephen's Island (73); The Brothers, Ocean Bay (78);
MM3 York Bay (68);
"slight" Opouri Valley (77).

67/069 Mar 8d 13h 05m
MM4 Coromandel (18).

67/070 Mar 8d 13h 05m
MM4 Wairoa (53);
felt Te Hoe (64).

67/073 Mar 9d 17h 32m
MM4 Aramoana (64);
MM3 Gisborne (45).

67/078 Mar 12d 06h 50m
MM4 Uruti (38); Purangi (48); Wanganui (57); Paraparaumu, Waikawa Beach (65); Pa Valley (66); Lower Hutt, Makara, Northland, Wellington (68); Ocean Bay (78).
MM3 Lyall Bay (68); Ponatahi (70).

67/084 Mar 18d 19h 00m
MM2 Jackson's Bay (113).

67/090 Mar 22d 05h 20m
MM4 Wairakei (41).

67/091 Mar 22d 06h 02m
MM4 Wairakei (41).

67/091 Mar 22d 06h 02m
MM4 Wairakei (41).

67/091 Mar 22d 06h 02m
MM4 Wairakei (41).

67/096 Mar 24d 03h 15m
MM4 Te Anau (130).

67/098 Mar 24d 19h 09m (See Isoseismal Map, p. 221.)
MM5 Aramoana, Porangahau (64);
MM4 Waiwhare (51); Table Flat (58); Ashley Clinton (59); Waipawa (60); Bunnythorpe, Palmerston North (62); Dannevirke, Tataramoa (63); Pa Valley, Wairere (66); King Station, Ovingdean (67); Lower Hutt, Wainuiomata (68);
MM3 Ohakune (57); Waiorongomai (69); Riversdale Beach (70);
"sharp" Mauriceville (66);
felt Ohau, Tirohanga (65); Hillwood, Pururui (66).

67/100 Mar 25d 19h 45m
felt Otaki (65).

67/103 Mar 27d 02h 11m
MM4 Mangles Valley (80); Blackball, Greymouth (85); Taipo River (92).
MM3 Westport (79).

67/106 Mar 27d 13h 18m
MM4 Mt Aspiring (113); Minaret Stn (114); Earnslaw Stn, Paradise (121); Gibbston (132); Alexandra (133); Matakanui Stn (134).

67/107 Mar 28d 17h 46m
"moderate" Te Hoe (64).

67/108 Mar 29d 10h 21m
felt Napier (52); Taradale (60).

67/111 Apr 1d 05h 35m
MM4 McDonnell Is. (129).

67/117 Apr 5d 12h 15m
MM4 Wairakei (41).

67/118 Apr 5d 12h 18m
MM4 Wairakei (41).

67/119 Apr 5d 13h 28m
MM4 Taupo (41);
"sharp" Wairakei (41).

67/121 Apr 9d 10h 10m
MM2 Te Anau (130).

67/122 Apr 9d 12h 59m
MM4 Turangi (40).

67/123 Apr 10d 14h 19m
MM4 Motuoapa (40).

67/124 Apr 10d 14h 20m
MM4 Motuoapa, Turangi (40);
"heavy" Hautu (40);
"light" Hinemaiaia Dam (41);
? Rangipo (50).

67/125 Apr 10d 14h 36m
MM3 Motuoapa (40).

67/126 Apr 12d 16h 25m
MM4 Berhampore, Karori, Khandallah, Kilbirnie, Linden, Wilton, York Bay (68); Ocean Bay (78).

67/131 Apr 16d 00h 03m
MM3 Coromandel (18).

67/134 Apr 20d 02h 44m
MM4 Tokaanu (40).

67/135 Apr 20d 02h 45m
MM4 Tokaanu (40).

67/136 Aor 20d 04h 40m
MM5 Tokaanu (40);
MM4 Uruti (38); Huinga (39); Motuoapa (40); Taihape (58);
"sharp" Hautu (40);
? Rangipo (50).

67/139 Apr 20d 04h 48m
MM4 Tokaanu (40).

67/140 Apr 20d 04h 49m
MM4 Tokaanu (40).

67/141 Apr 20d 05h 13m
MM3 Motuoapa, Tokaanu (40).

67/142 Apr 20d 05h 25m
MM3 Tokaanu (40).

67/143 Apr 20d 05h 56m
MM3 Motuoapa (40).

67/144 Apr 20d 06h 04m
MM3 Motuoapa, Tokaanu (40).

67/145 Apr 20d 06h 11m
MM3 Tokaanu (40).

67/146 Apr 20d 07h 22m
MM3 Motuoapa (40).

67/147 Apr 20d 08h 07m
MM3 Tokaanu (40).

67/153 Apr 23d 20h 43m
MM5 Waipawa (60);
MM4 Table Flat (58).

67/154 Apr 26d 15h 19m
MM4 Moawhango (58); Wairere (66).

67/155 Apr 26d 20h 35m
MM4 Tokaanu (40).

67/161	May	1d	22h 01m
		felt	Rotorua (33).
67/162	May	1d	23h 18m
		felt	Rotorua (33).
67/163	May	1d	23h 06m
		felt	Rotorua (33).
67/164	May	1d	23h 28m
		felt	Rotorua (33).
67/165	May	2d	02h 09m
		MM4	Rotorua (33).
67/167	May	3d	10h 48m
		MM4	Taraponui (52); Wairoa (53); Wanganui (57); Hunterville (58); Makaretu (59); Redcliffe (60); Palmerston North (62); Dannevirke (63); Wairere (66).
		MM3	Eastbourne, Lower Hutt (68); Ponatatu (70).
67/169	May	7d	07h 38m
		MM3	Taupo (41).
67/170	May	7d	10h 10m
		MM4	Patoka (52).
67/177	May	14d	14h 40m
		MM4	Lake Okataina (33).
67/178	May	16d	12h 06m
		MM4	Wellington (68); Ocean Bay (68); Blenheim (83);
		MM3	Wellington (68).
67/178	May	16d	14h 00m
		MM4	Tokaanu, Turangi (40).
67/180	May	17d	17h 48m
		"mild"	Tauranga (26).
67/181	May	17d	17h 58m
		MM4	Maketu, Tauranga (26); Kawerau, Te Teko (34);
		felt	Te Puke, Te Ranga (26); Ngongotaha (33); Mahoetahi (34); Te Puke (41).
67/182	May	17d	18h 50m
		MM5	Lake Okataina (33);
		MM4	Tauranga (26); Kawerau, Te Teko (34);
		felt	Te Ranga (26); Ngongotaha (33); Mahoetahi (34).
67/185	May	17d	19h 06m
		MM4	Te Teko (34);
		MM3	Maketu (26); Kawerau (34);
		"mild"	Rotorua (33);
		"short"	Lake Okataina (33).
67/186	May	17d	20h 32m
		"mild"	Tauranga (26);
		"short"	Lake Okataina (33).
67/187	May	18d	11h 41m
		felt	Te Ranga (26).
67/195	May	27d	15h 36m
		MM4	Wellington (68).

67/196	May	30d	03h 18m
		MM4	Wellington (68);
		MM2	The Brothers (78).
67/203	Jun	4d	04h 05m
		"slight"	Te Hoe (42).
67/205	Jun	7d	08h 08m
		MM4	Motueka (76).
67/206	Jun	7d	14h 20m
		MM4	Wanganui (57); Farewell Spit, Takaka (72); Stephen's Is. (73);
		MM3	Motueka (76).
67/212	Jun	9d	16h 50m
		MM4	Wairoa (53).
67/214	Jun	12d	12h 25m
		MM4	Hunterville (58).
		MM3	Wanganui (57); Bunnythorpe (62);
		felt	Ohakea, Lake Alice (61).
67/224	Jun	18d	13h 18m
		MM4	Lake Coleridge (100);
		felt	Glenariffe (99).
67/228	Jun	22d	03h 58m
		"slight"	Puysegur Point (146).
67/242	Jun	28d	14h 34m
		MM4	Awarua (154);
	"very slight"		Invercargill (149).
67/247	Jul	1d	17h 49m
		MM4	Broadlands (41).
67/260	Jul	11d	05h 12m
		MM5	Tokaanu (40);
		MM3	Turangi (40).
67/261	Jul	11d	06h 22m
		MM4	Tokaanu (40).
67/262	Jul	11d	07h 56m
		MM4	Ross (91).
67/265	Jul	11d	13h 16m
		MM4	Bunnythorpe (62); Karori, Northland, Tawa, Thorndon, Wellington, York Bay (68); Manaroa (78); Blenheim (83);
		MM3	Wanganui (57);
		felt	Paekakariki (68); Linkwater (77).
67/267	Jul	12d	20h 51m
		MM4	Waimana (35).
67/286	Jul	24d	10h 18m
		felt	Whangamomona (48).
67/301	Jul	30d	10h 47m
		felt	Cheviot (96).
67/306	Aug	1d	13h 33m
		MM4	Warea (46).

67/308 Aug 2d 07h 31m
MM4 Cheviot (96);
"sharp" Waiau (96).

67/313 Aug 5d 08h 25m
felt Tokomaru Bay (37).

67/318 Aug 7d 14h 39m
MM4 Gibbston (132).

67/322 Aug 9d 12h 47m
"sharp" Te Hoe (42).

67/326 Aug 10d 06h 50m
MM4 Tolaga Bay (37);
felt Tokomaru Bay (37).

67/329
330 Aug 11d 22h 20m
331 felt Wairakei (41).

67/332 Aug 11d 22h 26m
333 felt Wairakei (41).

67/334 Aug 12d 05h 54m
MM4 Okoia (57).

67/338 Aug 14d 04h 23m
"slight" Te Hoe (42).

67/340 Aug 17d 22h 54m
MM2 Ponatahi (70).

67/343 Aug 20d 16h 35m
MM4 Hokitika (91).

67/356 Aug 30d 11h 31m
MM4 Karori, Northland (68); Takaka (72); Ocean Bay (78); Blenheim (83);
MM3 Newtown, Wellington (68).

67/363 Sep 2d 11h 52m
MM4 Dannevirke.

67/365 Sep 7d 11h 44m
MM4 Ohakune (49).

67/371 Sep 13d 02h 33m
felt Tokomaru Bay (37).

67/375 Sep 15d 19h 19m
MM3 Kincaid (90); Cheviot (96).

67/376 Sep 16d 05h 22m
MM4 Waitaha (98).

67/379 Sep 17d 10h 25m
MM4 Otamatapaio (125);
"sharp" Tara Hills (124).

67/381 Sep 21d 09h 21m
MM4 Kaingaroa Forest (34); Broadlands (41).
felt Te Hoe (42).

67/382 Sep 21d 17h 45m (See Isoseismal Map, p. 221.)
MM6 Ohau, Paraparaumu (65);
MM5 Makara (68);

MM4 Uruti (38); Te Marae (56); Okoia, Ohakune, Wanganui (57); Hunterville (58); Bunnythorpe, Komako (62); Tataramoa (63); Hokio Beach, Levin, Muhunoa East (65); Eketahuna, Masterton, Rongokokaho (66); Newtown, Northland, York Bay (68); Waiorongomai (69); Ponatahi (70); The Brothers, Ocean Bay (78);
MM3 Purangi (48); Waitahinga (56); Pa Valley (66); Brooklyn, Khandallah, Lower Hutt, Lyall Bay (68); Hikawera (70); Manaroa (78);
"sharp" Purunui (66);
"moderate" Tirohanga (65); Upper Hutt (69);
"slight" Oteranga Bay (68);
felt Mangamutu (62); Otaki, Waitarere (65); Hillwood (66); Linkwater (77).

67/384 Sep 21d 18h 00m
MM4 Patoka (52);
MM3 Ohakune (49);
"light" Ohau (65);
felt Muhunoa East (65); Pa Valley, Rongokokaho, Wairere (66).

67/385 Sep 21d 19h 04m
felt Mokakahi (49).

67/390 Sep 23d 01h 59m
MM4 Broadlands (41); Waiwhare (51); Patoka (52); Table Flat (58);
MM3 Ohakune (57); Wairoa (53).

67/395 Oct 1d 04h 52m
MM4 Wairoa (53).

67/396 Oct 1d 09h 53m
"slight" Purunui (66).

67/400 Oct 3d 19h 12m
MM3 Mt Aspiring Stn (113).

67/404 Oct 5d 05h 03m
MM4 Mahitahi (104).

67/414 Oct 10d 12h 09m
MM4 Whakatane (27); Opotiki, Waimana (35);
MM3 Edgecumbe (27).

67/417 Oct 11d 15h 32m
MM4 Awarua (154);
MM3 Arrowtown (122).

67/419 Oct 11d 20h 44m
MM4 Manaroa (78);
MM3 Linden (68).

67/421 Oct 12d 16h 31m
MM4 Mahitahi (104); Jackson's Bay, Mt Aspiring Stn (113); Minaret Stn (114); Arrowtown (122);
felt Macpherson Camp (103).

67/438 Oct 22d 21h 52m
felt Mangahao (62); Otaki (65).

67/440 Oct 25d 09h 16m
MM4 Ngakaroa Stn (44);
MM2 Gisborne (45);
felt Tokomaru Bay (37).

67/442 Oct 31d 10h 09m
443 MM4 Waitotara (56).

67/445 Oct 31d 17h 22m
MM4 Ngamoana (41).

67/447 Nov 3d 00h 50m
MM4 Maungataniwha (42); Redcliffe (60).

67/451 Nov 7d 05h 16m
felt Jordan (83); Seddon (84).

67/454 Nov 8d 08h 31m
MM3 Te Anau (130).

67/456 Nov 9d 21h 40m
MM3 Manaroa (78); St Arnaud (81).

67/458 Nov 11d 18h 58m
MM6 Masterton (66);
MM5 Te Ore Ore (66); Greytown (69); Te Kopi (70);
MM4 Tirohanga (65); Marangai, Ovingdean (67); Karori, Kelburn, Newtown, Tawa (68); Wairongomai (69);
MM3 Purangi (48); Waitotara (56); Wanganui (57); Waikawa Beach (65); Eketahuna (66); York Bay (68); Riversdale (70);
MM2 Table Flat (58);
"severe" Woodside (69);
"sharp" Kowhaibank (66);
"light" Lake Alice (61);
felt Mangatoto Stn, Ohau (65).

67/459 Nov 11d 19h 23m
MM4 Te Ore Ore (66); Te Kopi (70);
felt Masterton (66).

67/460 Nov 11d 21h 26m
MM5 Te Ore Ore (66);
MM4 Te Kopi (70);
"sharp jolt" Masterton (66).

67/461 Nov 12d 09h 24m
felt Masterton (66).

67/462 Nov 12d 11h 10m
felt Masterton (66).

67/463 Nov 13d 03h 15m
MM4 Te Kopi (70);
felt Masterton (66).

67/464 Nov 13d 09h 00m
MM2 Island Bay (68);
"glass rattled" Blenheim (83);
felt Jordan (83); Seddon (84).

67/471 Nov 16d 07h 28m
MM4 Te Ore Ore (66).

67/473 Nov 21d 04h 12m
MM3 Dannevirke.

67/480 Dec 1d 05h 25m
MM3 Edgecumbe (27).
Identification of the felt report with this earthquake open to doubt.

67/481 Dec 1d 33h 38m
felt Maungataniwha (42).

67/483 Dec 2d 13h 34m
MM4 Molesworth (89); Hanmer Springs (95).

67/484 Dec 2d 17h 23m
MM4 Patoka, Taraponui (52); Wairoa (53); Ohakune (57); Mangaweka (58); Ashley Clinton (59); Hastings, Waipawa (60); Glebelands, Rotokai (64);
MM3 Ngakaroa (44); Waiwhare (51); Waikawa Beach (65);
MM2 Purangi (48); Moawhango (58);
"severe jolt" Maungataniwha (42);
felt Rotowai (64).

67/488 Dec 7d 05h 28m
MM4 Kawerau (34).

67/490 Dec 10d 18h 34m
MM3 Motueka (76).

67/493 Dec 11d 08h 00m
MM4 Karori, Makara (68);
MM3 Khandallah (68).

67/496 Dec 14d 07h 45m
MM4 Waimana (35).

67/500 Dec 16d 12h 58m
"slight" Maungataniwha (42).

67/503 Dec 17d 10h 37m
MM4 Ngakaroa Stn (44);
MM3 Gisborne (45).

67/506 Dec 20d 11h 26m
"slight" Foxton (61); Otaki (65).

67/507 Dec 20d 14h 56m (See Isoseismal Map, p. 221.)
MM6 Parihauhau (57);
MM5 Ohakune (49); Hunterville (58); Fielding (62);
MM4 Taumarunui (39); Omoana, Purangi (48); Chateau (50); Waiwhare (51); Waitahinga, Waitotara (56); Ohakune, Okoia, Wanganui (57); Mangaweka, Moawhango, Table Flat (58); Bunnythorpe (62);
MM3 Dannevirke (63);
"sharp" Lake Alice (61);
"moderate" Waiouru (50);
felt Waimiha (39); Stratford Mountain House (47); Rawimu (49); Anawai (65).

67/516 Dec 24d 11h 55m
felt Ohakune (49).

67/517 Dec 24d 14h 39m
MM5 Hunterville (58);
MM4 Ohakune (49); Waitotara (56); Ohakune, Okoia (57); Mangaweka, Moawhango (58); Bunnythorpe, Fielding (62); Dannevirke, Tataramoa (63);
MM3 Wanganui (57); Table Flat (58); Palmerston North (62);
"heavy" Hokio Beach (65);
"sharp" Lake Alice (61);
felt Makakahi (49).

67/520 Dec 26d 08h 15m
MM4 Taraponui (52); Waiwhare (51);
MM3 Patoka (52); Ohakune (57); Table Flat (58);
"slight" Ngapukaturua (42).

EARTHQUAKES FELT IN STANDARD LOCALITIES

Localities within which earthquakes were felt in 1966 are listed in alphabetical order, preceded by its number on the reference map. The figure following the name of the locality is the number of the epicentre, followed by the maximum intensity (in brackets) reported within the district covered by the locality name. The instrumental magnitude may be found from the epicentre list, and the places that actually reported the shock from the table of "Places Reporting Felt Earthquakes".

133	Alexandra	106 (4)
122	Arrowtown	417 (3), 421 (4)
83	Awatere	013 (3), 265 (4), 356 (4), 451 (?), 464 (?)
77	Blenheim	068 (?), 265 (?), 382 (?)
154	Bluff	242 (4), 417 (4)
104	Bruce Bay	404 (4), 421 (4)
61	Bulls	020 (5), 021 (?), 051 (4), 214 (?), 458 (?), 506 (?), 507 (?), 517 (?)
84	Cape Campbell	013 (?), 041 (?), 451 (?), 464 (?)
46	Cape Egmont	306 (4)
67	Castlepoint	051 (?), 098 (4), 458 (4)
50	Chateau	050 (4), 124 (?), 136 (?), 507 (4)
96	Cheviot	301 (?), 308 (4), 375 (3)
89	Clarence	483 (4)
18	Coromandel	069 (4), 131 (3)
95	Culverden	483 (4)
63	Dannevirke	014 (3), 020 (5), 022 (4), 038 (3), 051 (4), 098 (4), 363 (2), 473 (3), 507 (3), 517 (4)
129	Doubtful Sound	111 (4)
73	D'Urville Island	067 (4), 206 (4)
69	Featherston	009 (4), 098 (3), 382 (4), 458 (5)
45	Gisborne	073 (3), 440 (2), 503 (3)
81	Glenhope	456 (3)

121	Glenorchy	106 (4)
85	Greymouth	103 (4)
103	Haast	421 (?)
98	Hari Hari	376 (4)
60	Hastings	020 (4), 098 (4), 108 (?), 153 (5), 167 (4), 447 (4)
91	Hokitika	262 (4), 343 (4)
149	Invercargill	242 (?)
113	Jackson's Bay	084 (2), 106 (4), 400 (3), 421 (4)
90	Kaikoura	375 (3)
51	Kaweka	098 (4), 484 (3), 507 (4), 520 (4)
132	Kingston	106 (4), 318 (4)
92	Kumara	103 (4)
125	Kurow	370 (4)
100	Lake Coleridge	224 (4)
114	Makarora	114 (3), 106 (4), 421 (4)
70	Martinborough	020 (5), 067 (4), 098 (3), 167 (3), 340 (2), 382 (4), 458 (5), 459 (4), 460 (4), 463 (4)
66	Masterton	020 (5), 037 (4), 051 (?), 078 (4), 098 (4), 154 (4), 167 (4), 382 (4), 384 (?), 396 (?), 458 (6), 459 (4), 460 (5), 461 (?), 462 (?), 463 (?), 471 (4)
25	Matamata	026 (4), 050 (4)
38	Mokau	051 (?), 078 (4), 136 (4), 382 (4)
139	Monowai	053 (?)
80	Murchison	050 (5), 103 (4)
34	Murupara	181 (4), 182 (4), 185 (4), 381 (4), 488 (4)
52	Napier	108 (?), 167 (4), 170 (4), 384 (4), 390 (4), 484 (4), 520 (3)
76	Nelson	205 (4), 206 (3), 490 (3)
47	New Plymouth	051 (5), 507 (?)
49	Ohakune	020 (5), 035 (4), 051 (?), 365 (4), 384 (3), 385 (?), 507 (5), 516 (?), 517 (4)
35	Opotiki	268 (4), 414 (4), 496 (4)
65	Otaki	020 (?), 051 (?), 078 (4), 098 (?), 100 (?), 382 (6), 384 (?), 438 (?),

		458 (4), 517 (?)	484 (3),	506 (?),	507 (?),
62	Palmerston North	014 (4), 214 (3), 507 (5),	020 (4), 265 (4), 517 (4)	051 (?), 382 (4),	098 (4), 438 (?),
78	Picton	009 (4), 078 (3), 356 (4),	019 (4), 126 (4), 382 (4),	020 (4), 196 (2), 419 (4),	067 (4), 265 (4), 456 (3)
134	Poolburn	106 (4)			
64	Porangahau	070 (?), 484 (4)	073 (4),	098 (5),	107 (?),
146	Puysegur Point	228 (?)			
33	Rotorua	162 (?), 177 (4), 186 (?)	163 (?), 181 (?),	164 (?), 182 (5),	165 (4), 185 (?),
59	Ruahine	098 (4),	167 (4)		
124	St Bathans	379 (?)			
158	Stewart Island	053 (4)			
58	Taihape	020 (4), 051 (4), 167 (4), 458 (2), 520 (3)	025 (4), 098 (4), 214 (4), 484 (2),	028 (3), 153 (4), 382 (4), 507 (5),	048 (3), 154 (4), 390 (4), 517 (5),
72	Takaka	206 (4),	355 (4)		
39	Taumarunui	035 (?), 507 (4)	040 (?),	051 (?),	136 (4),
41	Taupo	046 (4), 118 (4), 181 (?), 330 (?), 381 (4),	090 (4), 119 (4), 247 (4), 331 (?), 390 (4),	091 (4), 124 (?), 260 (3), 332 (?), 445 (4)	117 (4), 169 (3), 329 (?), 333 (?),
26	Tauranga	180 (?), 186 (?),	181 (4), 187 (?)	182 (4),	185 (3),
130	Te Anau	096 (4),	130 (2),	454 (3)	
42	Te Whaiti	203 (?), 447 (4), 520 (?)	322 (?), 481 (?),	338 (?), 484 (?),	381 (?), 500 (?),
118	Timaru	005 (4)			
40	Tokaanu	122 (4), 134 (4), 140 (4), 144 (3), 155 (4),	123 (4), 135 (4), 141 (3), 145 (3), 178 (4),	124 (4), 136 (5), 142 (4), 146 (3), 260 (5),	125 (3), 139 (4), 143 (3), 147 (3), 261 (4)
37	Tolaga Bay	313 (?),	326 (4),	371 (?),	440 (?)
148	Tuatapere	053 (5)			

53	Wairoa	070 (4), 395 (4),	167 (4), 484 (4)	212 (4),	390 (3),
57	Wanganui	020 (4), 078 (4), 214 (3), 390 (3), 517 (3),	035 (4), 098 (3), 265 (3), 458 (3), 520 (3)	039 (4), 167 (4), 334 (4), 484 (4),	051 (4), 206 (4), 382 (4), 507 (6),
56	Waverley	004 (4), 442-3 (4),	020 (4), 458 (3),	051 (4), 507 (4),	382 (4), 517 (4)
68	Wellington	009 (4), 067 (5), 167 (3), 265 (4), 458 (4),	013 (4), 078 (4), 178 (4), 356 (4), 464 (2),	019 (3), 098 (4), 195 (4), 382 (5), 493 (4)	020 (4), 126 (4), 196 (4), 419 (3),
79	Westport	103 (3)			
44	Whakapunaki	440 (4),	484 (3),	503 (4)	
27	Whakatane	414 (4),	480 (3?)		
48	Whangamomona	020 (5), 382 (3),	051 (4), 458 (3),	078 (4), 484 (2),	286 (?), 507 (4)
99	Whitcombe Pass	224 (?)			

UNCONFIRMED REPORTS

The following shocks reported to the Observatory as having been felt cannot be confirmed either by an instrumental record or by an independent report.

Jan 16d	11h40m	Warrington (145)	"very slight"
17	?	Otaki (75)	?
31	19 05	Whangamomona (48)	?
Feb 7	15 00	Wairakei (41)	"sharp"
7	15 34	Wairakei (41)	MM4
20	10 15	Manapouri (139)	MM5
Mar 2	06 10	Manapouri (139)	MM3
20	09 10	Ongarue (39)	MM4
27	13 22	Minaret Station (114)*	MM4
	13 25±	Mt Aspiring (113)*	MM1
		* Probably an aftershock of 67/106.	
Apr 18	07 20	Hinemaiaia Dam (41)	"light"
26	22 21	Wairoa (53)	MM4
May 10	08±	Lake Okataina (33)	MM4
17	16 00	Tauranga (26)	"mild"
	17 30	Lake Okataina (33)	"several small shocks"
	20 00	Tauranga (26)	"mild"
18	08 55	Taupo (41)	MM4
23	19 26	Waipu (9)	"light"
Jun 1	09 53	Masterton (66)	MM5
Jul 11	15 43, or 12h later	West Coast Drive (15 or 16)	?
31	08 57	West Coast Drive (15 or 16)	?
Aug 31	01 05	Wanganui Camp (50)	MM4
Sep 21	?	Ohingaiti (58)	?
		Possibly refers to 67/381 or 67/382.	

	23	03 56	Broadlands (41)	MM4
Oct	1	18 00	Hokio Beach (65)	MM2
		19 15	Mahitahi (104)	MM3
	9	10 45	Rotomahana (33)	"slight"
	14	16 35	Mahitahi (104)	MM4
			Probably refers to 67/421.	
	23	11 45	Anticrow Hut (100)	MM4
	24	03 30	Khandallah (68)	MM2
Nov	3	12 55	Wairakei (41)	"moderate"
	11	06 34	Te Puke (26)	"slight"
	12	00 57	Dannevirke (63)	MM3
Dec	7	06 30	Kawerau (34)	MM4
	7	?	Kawerau (34)	"several minor shocks during night and following morning"
	16	22 45	Maungataniwha (42)	"moderate"
	17	11 45±	Wainuiomata (68)	MM4
	22	?	Makakahi (49)	"moderate"
		15 03	Purangi (48)	MM2
		16 00±	Crofton Downs (68)	MM4

FELT EARTHQUAKES REPORTED FROM OUTSIDE NEW ZEALAND

The Observatory sometimes receives reports of earthquakes felt on islands of the south-west Pacific and at other places beyond the limits of its systematic reporting network. The following reports were received during 1967.

Jan	17d	10h50m	Raoul Island	MM2
	20	20 41	Raoul Island	MM2
	21	12 48	Raoul Island	MM2
	23	11 10	Raoul Island	MM3
Apr	5	23 33	Raoul Island	MM3
Sep	7	09 34	Raoul Island	MM4
		11 09	Raoul Island	MM3
	20	09 40	Campbell Island	MM1
	23	07 03	Campbell Island	MM1
		17 59	Campbell Island	MM1
	24	01 10	Raoul Island	MM4
Oct	9	17 23	Raoul Island	MM3
Nov	9	15 30	Niue Island	MM4
	12	03 28	Niuafo'on	MM6

STATION READINGS

FROM DISTANT EARTHQUAKES

This section contains the readings from earthquakes at distances beyond about 10 degrees from Wellington, and is divided into two parts, the first containing data from stations within the main islands of New Zealand (including Chatham Island), and the second containing the data from other stations of the network. Both lists include U.S. Coast and Geodetic Survey origin data, and magnitudes computed from the New Zealand data.

The arrangement is as follows. For each earthquake the first line gives the origin time, epicentre, focal depth and magnitude assigned by the USCGS, and in the case of the New Zealand stations, the distance from Wellington in degrees. For the overseas stations, distances are listed individually with the station readings. When no USCGS data are available, this line is omitted. Next the arrival times of phases at the individual stations are listed. With these are given directions of first motion, the amplitudes and periods of the associated ground motions, the results of the magnitude calculations, and values of $\log_{10} A/T$ for the short-period vertical component.

Periods are given in seconds, and amplitudes in microns. These are worked out by the computer, using a stored polynomial approximation to the response curve of the seismometer concerned. The magnitudes are the 'unified magnitude' $m = \log_{10} A/T + Q$, defined by Gutenberg and Richter (Annali di Geofisica, 9: 1-15, 1956). No station correction is applied. Only the vertical component recordings of P or PP, and the horizontal components of P, PP or S are used. The value printed on the right is the mean of separate determinations for all the components whose amplitude and period data are given on the same line.

Magnitude calculations are carried out only for the stations at Wellington, Karapiro, Gisborne, Roxburgh, and Monowai within New Zealand, and for the overseas stations at Afiamalu, Rarotonga, Suva, Raoul Island, and Scott Base.

PART ONE: Readings from stations within N.Z.

For readings from other stations under N.Z. control

SEE PAGE 378

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	00 21 06.6	12.1S 166.2E	33KM	4.9 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	Z 00 26 48.5			-1.41					5.1
GNZ EP	Z 00 27 06			-1.10					5.5
WEL EP	Z 00 27 20								
MJZ EP	ZNE 00 27 33								
EPCP	ZN 30 22								
E(S)	NE 32 54								
ESCP	E 33 57								
JAN 01 KRP P	ZNE 02 19 55.8			-0.80					
GNZ EP	Z 02 20 01			-0.57					

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	02 19 44.3	18.8S 173.6W	12KM	4.4 TONGA					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	Z 02 24 36.5			-1.72					4.8
E(S)	ZNE 29 16.2								
GNZ E	Z 02 29 20								
S	Z 22.9								
JAN 01 KRP P	ZNE 02 29 11.2			-0.75					
GNZ EP	Z 02 29 20			-0.96					
E	Z 23.0								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	04 04 06.5	12.0S 166.0E	33KM	4.5 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	Z 04 09 49			-1.39					5.1
WEL ES	E 04 15 06								1 10 5.4
ELR	ZNE 18								
MAX	ZNE 22				8 18	6 19	6 18		
MJZ EP	ZNE 04 10 34								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	07 05 48.6	15.3S 173.6W	33KM	6.0 TONGA					WEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
GNZ EP	Z 07 11 08			-0.31					5.1
KRP P	ZNE 07 11 08.2			0.18					6.6
WEL EP	ZNE 07 11 32			-0.36	5 15	5 25			6.1
E(PP)	Z 12 25								
E	E 13 47							3 10	
ES	NE 16 20					3 26		3 21	5.3
ELQ	E 18								
ELR	ZN 19				103 24	75 22			
CIZ EP	ZNE 07 11 49								
ROX EP	ZN 07 12 27			-1.28		3 10			5.9
ES	NE 17 58					3 25		3 20	5.6
ELQ	NE 21					3 22		14 40	
ELR	ZN 22								
MAX	ZNE 24				37 20	61 24		28 20	

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	07 40 11.8	16.6S 173.1W	33KM	4.1 TONGA					WEL 27
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	ZE 07 45 23			-1.41					5.1
MJZ EP	ZE 07 46 30								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	07 45 53.6	12.1S 166.2E	33KM	4.7 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	Z 07 51 40			-1.34					5.2
MNG EP	Z 07 51 55								
MJZ EP	ZNE 07 52 18								
MNW EP	Z 07 52 31			-1.19					5.7

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	08 11 12.8	12.2S 166.1E	33KM	4.5 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	Z 08 16 54			-1.90					4.6
MNG EP	Z 08 17 15								
MJZ EP	ZNE 08 17 41								
MSZ EP	Z 08 17 42								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	08 45 42.2	20.5S 178.4W	627KM	5.6 FIJI					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EIP	ZNE 08 49 17			-0.66					5.6
GNZ EP	Z 08 49 18.8			-0.86					5.4
MJZ P	Z 08 49 18.8								
WEL P	ZNE 08 49 44.3			-0.69					5.8

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	08 54 16.1	11.6S 165.8E	33KM	4.4 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	Z 09 00 05			-1.73					4.8
MNG P	Z 09 00 25.7								
MJZ EP	Z 09 00 42.5								
MSZ EP	Z 09 00 58								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	08 55 16.8	12.3S 166.0E	33KM	4.7 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	Z 09 00 59			-1.63					4.9
MNG P	Z 09 01 18.9								
WEL ELQ	NE 09 09							3 17	5 22
ELR	ZN 12								
MAX	ZNE 14						18 16	12 15	4 16
MJZ EP	Z 09 01 38								
MSZ EP	Z 09 01 46								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	12 53 29.9	11.7S 165.9E	33KM	4.7 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
MNG EP	Z 12 59 35								
E-PP	Z 46								
MSZ EP	Z 13 00 04								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	13 04 55.5	11.3S 166.0E	33KM	4.3 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	Z 13 10 45			-2.21					4.4
MNG EP	Z 13 11 03								
MJZ EP	ZNE 13 11 26								
MSZ EP	Z 13 11 31								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	13 19 27.3	11.6S 165.3E	33KM	4.9 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
KRP EP	ZNE 13 24 18.5			-1.71					4.9
WEL EP	ZNE 13 24 45			-1.20					5.6
MSZ EP	Z 13 25 02								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	13 26 47.1	12.1S 166.0E	33KM	4.3 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
MJZ EP	ZNE 13 33 14								
MSZ EP	Z 13 33 18								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	14 18 51.4			12.4S 165.8E	33KM	5.0 SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	EP	Z 14 24 29			-1.68					4.8
	MNG	EP	Z 14 24 50.5								
	MEL	ES	E 14 29 45								1 10 5.4
		E(LQ)	ZE 32				1	14			3 24
		ELR	ZNE 35								
		MAX	ZN 38				19	16	8	15	
	MJZ	EP	ZNE 14 25 13								
	MSZ	EP	Z 14 25 18.5								
		E•PP	Z 31								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	14 38 05.9			11.8S 165.8E	33KM	SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	MSZ	EP	Z 14 44 40								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	20 45 26.7			11.9S 165.9E	33KM	4.4 SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	EP	Z 20 51 10			-1.52					5.1
	MNG	EP	Z 20 51 29								
	MJZ	EP	ZNE 20 51 54								
	MSZ	EP	Z 20 51 58.5								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 01	21 58 57.8			11.1S 165.5E	33KM	5.4 SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	P	ZNE 22 04 50.1			-0.76					5.1
		ES	E 09 43								
		ESCP	Z 11 45								
	GNZ	EP	Z 22 05 05			-0.87					5.4
	MEL	EP	Z 22 05 13			-0.70	2	5			5.4
		ES	E 10 16								4 13 5.4
		ELQ	NE 13						6	20	7 21
		ELR	ZNE 14								
		MAX	ZN 17				16	16	11	17	
	MJZ	EP	ZNE 22 05 34								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	02 35 15.3			11.4S 165.2E	33KM	5.0 SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	EP	Z 02 41 07			-1.58					5.1
	MJZ	EP	Z 02 41 56.5								
JAN 02	MNG	E(P)	Z 07 06 17								
		E(•PP)	Z 27								
	MJZ	E(P)	ZE 07 06 22								
		E(•PP)	ZNE 32								
	KRP	E(P)	ZE 07 06 23			-1.58					
		E(•PP)	Z 33								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	07 32 07.9			11.5S 165.6E	33KM	4.5 SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	EP	ZE 07 37 57			-1.45					5.1
	MNG	P	Z 07 38 17.9								
	MJZ	P	ZE 07 38 41.7								
	MSZ	P	Z 07 38 44								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	08 49 32.6			12.3S 165.6E	33KM	4.8 SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	MNG	EP	Z 08 55 43								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	10 00 23.4			11.9S 165.1E	33KM	4.7 SANTA CRUZ IS					MEL 30
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	MNG	EP	Z 10 06 32								
		E•PP	Z 45								
	MSZ	EP	Z 10 06 54								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	13 49 19.1			11.3S 165.8E	36KM	4.3 SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	EP	Z 13 55 09			-1.86					4.7
	MNG	EP	Z 13 55 31								
	MJZ	EP	ZNE 13 55 53								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	15 11 16.1			12.2S 165.9E	45KM	4.5 SANTA CRUZ IS					MEL 30
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	EP?	Z 15 16 54			-1.58					4.9
		E(•PP)	Z 17 07								
	MNG	EP	Z 15 17 18								
		E•PP	Z 32								
	MJZ	EP	ZNE 15 17 41								
	MSZ	EP	Z 15 17 45								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	16 26 51.7			12.4S 166.2E	33KM	4.3 SANTA CRUZ IS					MEL 30
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	MNG	EP	Z 16 32 50								
	MJZ	EP	Z 16 33 13								
	MSZ	EP	Z 16 33 17								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	17 11 44.2			11.4S 166.8E	33KM	4.6 SANTA CRUZ IS					MEL 31
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	MNG	EP?	Z 17 17 43								
		E(•PP)	Z 53								
	MJZ	E(•PP)	Z 17 18 18								
	MSZ	E(•PP)	Z 17 18 21								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	17 44 34.4			12.2S 165.7E	33KM	4.4 SANTA CRUZ IS					MEL 30
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	MJZ	EP	Z 17 50 58								
	MSZ	EP	Z 17 51 02								
		E•PP	Z 14								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	19 32 13.1			19.7S 169.4E	103KM	NEW HEBRIDES					MEL 22
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	EP	Z 19 36 29.5			-1.68					4.5
	MNG	EP	Z 19 36 56								

			H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 02	19 59 58.2			12.3S 166.4E	33KM	5.2 SANTA CRUZ IS					MEL 30
			H M S		DIR	LOG A/T	AZ	TZ	AN	TVL	AEL TE MAG
	KRP	EP	ZNE 20 05 38			-1.59					4.9
		E	Z 06 09								
		ES	E 10 27								
		ESCP	Z 12 52								
	GNZ	ES	Z 20 05 42.5								
	MEL	EP	Z 20 06 02						1	12	5.6
		EPP	Z 07 10						1	14	5.6
		ES	ZNE 11 02						1	16 3 24 1 20	5.2
		ELQ	E 14								
		ELR	ZN 15								
		MAX	ZNE 17						24	19 17 18 14 19	

	MJZ	EP	ZNE	20	06	21								
		EPP	ZNE		07	13.5								
		EPCP	ZNE		09	25								
		E	NE		10	30.5								
		ES	NE		11	29								
		ESCS	ZNE		17	01								
	ROX	EP	Z	20	06	32		-0.60						6.3
		ES	E		11	52							2 14	5.7
		ELQ	NE		14							9 21	15 18	

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 02	20	20	15.0	11.7S	165.3E	33KM	4.8	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	Z	20	26	02.5		-1.68					4.7
	GNZ	EP	Z	20	26	14.5		-1.26					5.4
	MNG	EP	Z	20	26	23							
	MSZ	EP	Z	20	26	49							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 02	20	40	15.5	12.3S	166.3E	33KM	4.4	SANTA CRUZ IS				AEL	30
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	MNG	EP	Z	20	46	15							
	MJZ	EP	Z	20	46	37							
	MSZ	EP	Z	20	46	42							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 02	23	01	39.0	11.9S	165.3E	33KM	4.8	SANTA CRUZ IS				AEL	30
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	MNG	EP	Z	23	07	49							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 02	23	49	38.8	11.2S	165.4E	33KM	4.7	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	Z	23	55	31		-1.69					4.9
	MNG	EP	Z	23	55	52.5							
	MJZ	EP	Z	23	56	14							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 02	23	55	36.3	11.7S	165.1E	33KM	5.2	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	Z	24	01	25		-1.39					5.2
	MNG	EP	Z	24	01	45							
	MJZ	EP	Z	24	02	16							
	MSZ	EP	Z	24	02	18							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 03	01	40	45.1	17.6S	172.2E	33KM	4.8	NEW HEBRIDES				AEL	24
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	ZNE	01	45	23		-1.18					5.0
	GNZ	EP	Z	01	45	38		-1.23					5.0
	MNG	EP	Z	01	45	50							
	MJZ	EP	ZNE	01	46	21							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 03	04	36	03.9	11.1S	165.6E	33KM	4.5	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	Z	04	41	54		-1.49					5.1
	MNG	EP	Z	04	42	14.5							
	MJZ	EP	Z	04	42	39.5							
	MSZ	E(P)	Z	04	43	01							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 03	05	23	46.5	11.8S	165.2E	33KM	5.3	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	Z	05	29	34		-1.52					5.0
	GNZ	EP	Z	05	29	46		-1.16					5.5
	MNG	EP	Z	05	29	55							

	MSZ	EP	Z	05	30	19								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 03	05	35	46.6	10.9S	165.5E	33KM	5.2	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	ZNE	05	41	38		-1.10					5.5
		ES	E		46	28.5							
		ESCP	Z		48	37							
	WEL	EP	Z	05	42	06		-0.81		3 14			5.9
		EPP	Z		43	16				3 15			5.9
		ES	NE		47	08					4 19	5 14	5.8
		E	Z		48	32				4 15			
		ELQ	NE		49	49					12 22	13 20	
		ELR	ZNE		51							27 22	
		MAX	ZN		53					15 18	21 18		
	MJZ	EP	ZNE	05	42	25							
		EPP	Z		43	38							
		E	Z		44	29							
		ES	ZNE		47	35							
		E	NE		48	01							
		E	N			25.5							
	ROX	ES	NE	05	48	00					9 21	9 16	6.2
		ELR	ZNE		52								
		MAX	NE		53						13 19	25 20	

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 03	05	52	51.8	11.2S	165.5E	33KM	5.3	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	ZNE	05	58	43		-1.09					5.5
		ES	E	06	03	32							
		ESCP	ZE		05	34							
	GNZ	EP	Z	05	59	00		-0.72					5.9
	WEL	EP	Z	05	59	13		-0.74					6.1
	MJZ	EP	Z	05	59	24.5							
		EPP	Z	06	00	37							
		E	Z		01	17							
		ES	ZNE		04	48							

LATER PHASES ON WEL LP MASKED BY SURFACE WAVES OF EARLIER QUAKE

JAN 03	KRP	EP	ZNE	06	07	35		-1.26						
		E	ZE		10	49								
	GNZ	EP	Z	06	07	46		-1.06						
	MNG	EP	Z	06	08	02								
	MJZ	EP	ZNE	06	08	18								
		EPCP	ZE		11	01								
		ES	ZNE		13	38								
	MNG	P IN S OF LOCAL SHOCK												

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 03	10	43	25.1	11.0S	165.4E	33KM	4.8	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	Z	10	49	19		-1.58					5.0
	MNG	EP	Z	10	49	41							
	MJZ	E(P)	ZNE	10	50	06							
	MSZ	E?	Z	10	50	02							
		EP	Z			07							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JAN 03	11	05	15.4	11.2S	165.4E	33KM	5.3	SANTA CRUZ IS				AEL	31
				H	M	S	DIR	LOGmA/T	AZ	TZ	AN TVI	AE TE	MAG
	KRP	EP	ZNE	11	11	08		-1.03					5.5
	GNZ	EP	Z	11	11	19		-0.87					5.8
	WEL	EP	Z	11	11	35		-0.87					5.9
		ES	NE		16	14					2 9	1 11	5.5
		EL	ZNE		19								
		MAX	E		21							7 20	
		MAX	ZN		22					4 18	6 18		

	MJZ	EP	ZNE	11	11	52							
		E	Z		14	34							
	MSZ	EP	Z	11	11	56							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	11	28	49.1	11.0S	165.4E		33KM	4.6	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	EP	Z	11	34	40		-1.52					5.1
	MNG	EP	Z	11	35	01							
	MJZ	EP	Z	11	35	24							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	11	31	34.4	11.2S	165.4E		33KM	5.1	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	EP	ZE	11	37	26		-1.18					5.4
	GNZ	EP	Z	11	37	40		-1.16					5.1
	MNG	EP	Z	11	37	48.5							
	MJZ	EP	ZNE	11	38	13							
		E	Z		41	01							
	MSZ	EP	Z	11	38	21							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	12	03	47.3	11.3S	165.7E		33KM	4.6	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	MNG	EP	Z	12	09	58							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	12	32	09.2	10.9S	165.4E		33KM	5.2	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	EP	ZNE	12	38	02		-1.16					5.4
	GNZ	EP	Z	12	38	14		-0.94					5.7
	MNG	EP	Z	12	38	23							
	MJZ	EP	ZNE	12	38	47							
		E	ZNE		41	27							
	MSZ	EP	Z	12	38	48							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	13	23	51.7	12.0S	165.4E		33KM	4.9	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	EP	Z	13	29	38		-1.63					4.9
	MNG	EP	Z	13	29	59							
	MJZ	EP	ZNE	13	30	20							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	16	20	20.3	11.4S	165.4E		33KM	4.2	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	EP	Z	16	26	10		-1.52					5.1
	MNG	EP	Z	16	26	31.5							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	17	46	44.9	11.3S	165.8E		33KM	4.8	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	MJZ	EP	ZNE	17	53	18							
	MSZ	EP	Z	17	53	25							
	KRP	EP	Z	17	52	34		-1.63					4.9
	GNZ	EP	Z	17	52	45		-1.34					5.1
	MNG	EP	Z	17	52	55							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	18	35	22.3	12.3S	166.2E		33KM		SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	MNG	EP	Z	18	41	21							
	MSZ	EP	Z	18	41	48							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	20	12	48.4	20.5S	169.3E		46KM		NEW HEBRIDES				MEL 21
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	GNZ	EP	Z	20	17	15		-1.10					5.1
	MNG	P	Z	20	17	27.3	U						
	MJZ	EP	ZE	20	17	53							
	MSZ	EP	Z	20	18	04							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	20	30	18.0	11.1S	165.2E		33KM	4.5	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	EP	Z	20	36	10.6		-1.30					5.3
	GNZ	EP	Z	20	36	21.5		-1.09					5.5
	MNG	EP	Z	20	36	31.5							
	MJZ	EP	Z	20	36	57							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	20	43	03.7	11.5S	165.2E		33KM	4.8	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	GNZ	EP	Z	20	49	03.5		-1.16					5.5
	MNG	EP	Z	20	49	13							
	MJZ	EP	Z	20	49	36							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	21	23	21.8	12.4S	166.4E		33KM	5.0	SANTA CRUZ IS				MEL 30
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	P	Z	21	29	00.9		-1.51					5.0
	GNZ	EP	Z	21	29	14		-1.16					5.4
	MNG	EP	Z	21	29	21.5							
	MEL	EP	ZE	21	29	24		-0.44		1	15		5.8
		EPP	Z		30	32							
		ES	E		34	48						2	25 5.0
		ELQ	NE		36	26					5	22	3 26
		ELR	ZNE		37								
		MAX	ZNE		41					15	18	10 19	6 18
	MJZ	EP	Z	21	29	43							
		E(PCP)	Z		32	37							
JAN 03	KRP	E(PCP)	ZNE	21	39	18.5							
	GNZ	EP	Z	21	39	10		-1.26					
		EPCP	Z			33							
	MNG	EP	Z	21	39	21							
		EPCP	Z			40.8							
	MJZ	EP	ZNE	21	40	03							
		EPCP	Z			23							
		E	E			30.5							
		ES	Z		42	46							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	22	27	07.4	12.4S	166.4E		33KM		SANTA CRUZ IS				MEL 30
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	EP	Z	22	32	59.5		-1.31					5.2
	MNG	EP	Z	22	33	21							
	MJZ	EP	ZNE	22	33	44							
		E	Z		36	24							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 03	23	13	51.8	11.3S	165.5E		33KM	4.5	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	MNG	EP	Z	23	20	03							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
JAN 04	00	14	38.2	11.1S	165.5E		33KM	4.5	SANTA CRUZ IS				MEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TYP	AB TE MAG
	KRP	P	Z	00	20	30.8	D	-1.30					5.3
	GNZ	EP	Z	00	20	42		-1.23					5.4

	MNG	EP	Z	00 20 51									
	MJZ	EP	Z	00 21 19.5									
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 04	01	55	06.6	11.6S	165.5E	33KM	4.5 SANTA CRUZ IS						WEL 31
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	MNG	EP	Z	02	01 15.5								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 04	03	41	36.4	20.3N	120.0E	33KM	5.6 PHILIPPINE IS						WEL 98
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	03	53 34		-1.22						5.8
	GNZ	EP	Z	03	53 53		-0.87						5.3
	MNG	EP	Z	03	53 43								
	MJZ	P	ZNE	03	53 39								
		E PP	Z		49								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 04	13	07	00.7	12.1S	165.6E	33KM	4.9 SANTA CRUZ IS						WEL 31
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	MNG	EP	Z	13	13 11								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 04	16	30	28.0	3.2S	142.2E	19KM	5.5 NEAR N NEW GUINEA						WEL 48
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	MNG	EP	Z	16	39 06								
	MJZ	EP	Z	16	39 07								
	MNW	EP	Z	16	39 15		-1.96						5.0
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 05	00	14	40.4	48.1N	102.8E	33KM	6.4 MONGOLIA						WEL 109
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	WEL	EP	Z	00	29 09				1 16				
		EPKP	Z		33 30				5 17				
		ESKS	NE		39 48					4 20		3 18	
		EPS	ZNE		43 10				14 20	23 38		11 36	
		ESS	ZNE		49 04				25 24	42 38		27 22	
		E(SSS)	Z		53 20				35 38				
		ELQ	NE		02								
		MAX	NE		05						121 30	99 32	
		ELR	Z		07								
		MAX	Z		14				93 22	57 22		35 24	
	ROX	EP	ZNE	00	33 43				5 15	3 17		3 24	
		ESKS	NE		40 00					5 18		5 18	
		EPS	ZNE		43 08				46 11	14 21		17 21	
		ESS	ZNE		49 28				9 14	19 32		28 26	
		ESSS	NE		52 40					42 30		55 26	
		ELR	Z	01	09								
		MAX	ZNE		14				42 24	54 22		62 19	
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 05	02	10	17.3	11.3S	165.6E	33KM	5.0 SANTA CRUZ IS						WEL 31
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	KRP	E	Z	02	16 21								
	MNG	EP	Z	02	16 28								
	MJZ	EP	ZN	02	16 52								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 05	06	13	31.6	13.8N	120.7E	166KM	5.4 PHILIPPINE IS						WEL 74
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	MNW	EP	Z	06	24 43		-1.17						5.7
	KRP	EP	Z	06	24 44.1		-0.98						5.8
	MJZ	EP	ZNE	06	24 45.7								
	MNG	EP	Z	06	24 51								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 05	06	13	31.6	13.8N	120.7E	166KM	5.4 PHILIPPINE IS						WEL 74
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	MNW	EP	Z	06	24 43		-1.17						5.7
	KRP	EP	Z	06	24 44.1		-0.98						5.8
	MJZ	EP	ZNE	06	24 45.7								
	MNG	EP	Z	06	24 51								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 05	10	33	50.3	11.3S	166.2E	62KM	5.1 SANTA CRUZ IS						WEL 31
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	10	41 34.6		-1.26						5.2
	MNG	P	Z	10	41 55.5								
	MJZ	EP	ZNE	10	42 19								
	MNW	EP	Z	10	42 32		-1.46						5.4
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 05	14	38	13.7	11.3S	165.3E	48KM	4.7 SANTA CRUZ IS						WEL 31
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	14	44 03		-1.39						5.1
	MNG	EP	Z	14	44 25								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 05	21	38	28.6	21.8S	169.9E	22KM	LOYALTY IS						WEL 20
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	21	42 45		-1.40						4.7
	MNG	EP	Z	21	42 47								
	MJZ	EP	ZNE	21	43 24								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 05	23	58	21.4	48.1N	102.9E	33KM	5.4 MONGOLIA						WEL 109
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EPKP	Z	24	16 36								
	MNG	EPKP	Z	24	16 47								
	WEL	EPS	ZNE	24	27 28						2 22		
		EL	ZNE		45								
		MAX	ZNE		49					5 23	3 23	2 22	
	MJZ	EPKP	Z	24	16 57								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 06	00	04	02.7	41.8N	143.3E	35KM	5.5 HOKKAIDO, JAPAN						WEL 87
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	KRP	EP	Z	00	16 36		-1.40						5.8
		EPKP?	Z		52								
	MNG	EP	Z	00	16 47								
	MJZ	EP	Z	00	16 57								
	WEL	EP	Z	00	17 00								
		ESKS	ZNE		27 28						2 23		
		ELR	ZNE		45								
		MAX	ZNE		49					6 23	3 22	2 22	
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 06	08	14	25.7	11.9S	166.2E	33KM	4.5 SANTA CRUZ IS						WEL 30
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	KRP	P	Z	08	20 10.8		-1.63						4.9
	MNG	EP	Z	08	20 32.7								
	MJZ	EP	Z	08	20 51								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 06	10	03	05.8	1.5S	126.6E	57KM	5.4 MOLUCCA SEA						WEL 59
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE	MAG
	MJZ	EP	ZE	10	12 52								
	KRP	EP	Z	10	12 54		-0.92						5.3
	GNZ	EP	Z	10	13 08		-1.23						6.0
	MNG	EP	Z	10	13 00								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 07	00 27 25.2	48.8S 112.7E	33KM	5.8 SE INDIAN RISE					WEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ROX EP	Z 00 34 41		-1.21					5.6
	EPP	Z 36 16			4	6			5.3
	ES	ZNE 40 28			4	5	5 13	5 20	5.1
	ELQ	NE 43					17 30	3 28	
	ELR	ZNE 45			7	20	6 22	10 25	
	WEL EP	Z 00 35 28			2	7			5.0
	ES	ZNE 41 36			1	20	3 22	5 22	5.7
	EL	ZNE 45			3	20	9 30	4 18	
	ELR	ZNE 48							
	MAX	ZNE 50			4	19	6 13	3 19	
	MNG EP	Z 00 35 32							
	KRP EP	ZE 00 35 44		-1.39					5.5
	GNZ EP	Z 00 35 54		-0.91					5.0

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 07	11 33 00.5	12.3S 166.1E	33KM	4.7 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 11 38 48		-1.52					5.1
	MNG EP	Z 11 39 08							
	MJZ EP	ZNE 11 39 26							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 07	13 34 48.3	11.8N 142.7W	36KM	5.6 S OF MARIANA IS					WEL 66
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 13 44 41		-1.30					5.9
	MNG P	Z 13 44 54.0 D							
	MJZ EP	Z 13 44 59							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 07	15 53 50.9	12.6S 167.5E	33KM	4.8 SANTA CRUZ IS					WEL 29
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 15 59 38		-1.63					4.7
	MNG EP	Z 15 59 49							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 07	16 41 03.0	11.9S 166.1E	33KM	5.1 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 16 46 47		-1.01					5.1
	MNG EP	Z 16 47 08.5							
	WEL EP	Z 16 47 12			2	8			5.1
	E(S)	Z 52 42			1	19			
	E(SS)	E 54 25						1 10	
	ELQ	NE 55					1 12	5 20	
	ELR	ZN 58							
	MAX	ZN 17 00			23	17	18	17	
	ROX P	Z 16 47 42.9		-0.25					5.6
	E	N 50 54					3 10		
	ES	NE 53 05					3 20	3 16	5.5
	ELQ	NE 55					4 30	4 30	
	ELR	Z 57							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 08	15 27 16.9	12.2S 166.5E	40KM	5.1 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 15 32 56		-1.63					4.9
	MNG EP	Z 15 33 17							
	ES	Z 38 06							
	MJZ EP	Z 15 33 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 08	18 45 12.4	12.0S 165.8E	33KM	SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 18 52 15.5							

	MJZ EP	Z 18 52 38.5							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 08	21 56 25.8	11.5S 165.7E	45KM	4.7 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 22 02 37.5							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 09	15 10 57.6	4.6S 151.8E	138KM	4.6 NEW BRITAIN					WEL 42
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 15 18 17		-1.63					5.1
	MNG EP	Z 15 18 33.8							
	MJZ EP	Z 15 18 41							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 09	17 47 41.6	12.3S 166.6E	33KM	4.8 SANTA CRUZ IS					WEL 30
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 17 53 41							
	E	Z 54 09							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 09	19 03 44.3	15.5S 176.1E	339KM	5.0 FIJI					WEL 26
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	Z 19 08 26.7		-1.04					5.3
	MNG EP	Z 19 08 47							
	IP	Z 09 50.8 U							
	MJZ EP	Z 19 09 26							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 09	19 47 06.0	11.5S 165.0E	78KM	5.5 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 19 52 50		-1.39					5.1
	MNG EP	Z 19 53 11							
	MJZ EP	ZNE 19 53 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 10	13 34 05.8	19.6S 175.8W	33KM	5.0 TONGA					WEL 23
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZE 13 38 37		-1.24					5.0
	MNG EP	Z 13 39 06							
	MJZ EP	ZNE 13 39 39							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	02 58 01.2	11.4S 165.6E	33KM	5.3 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 03 03 49							
	TUA EP	Z 03 04 00							
	WEL EP	Z 03 04 33							
	EL	ZE 15							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	05 54 00.1	0.1S 120.1E	23KM	5.6 N CELEBES					WEL 64
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW EP	Z 06 04 17							
	KRP EP	Z 06 04 30							
	TUA EP	Z 06 04 39							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	11 03 40.9	11.3S 165.6E	33KM	4.5 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 11 09 50							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JAN 11	11 32 26.1	11.4S 165.6E	33KM	4.5 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 11 38 15							
	MNG EP	Z 11 38 36							

	WEL	ES	Z	11	44	08								
		EL	Z		48									
	MSZ	EP	Z	11	38	52								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 12	05	17	22.4	56.1S	26.7W		33KM	5.4 S SANDWICH IS						WEL 31
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNW	EP	Z	05	28	52								
	MSZ	EP	Z	05	29	23								
	KRP	EP	Z	05	29	51								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 12	10	14	28.8	26.3S	179.2E		527KM	4.5 S OF FIJI						WEL 15
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	10	17	09								
	MNG	EP	Z	10	17	31								
	MSZ	EP	Z	10	18	36								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 13	13	21	30.4	11.6S	164.9E		28KM	4.7 SANTA CRUZ IS						WEL 31
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	13	27	41								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 13	13	48	11.7	10.6S	161.4E		32KM	5.7 SOLOMON IS						WEL 33
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	13	54	20								
		EPCP	Z		57	21								
	WEL	EP	ZNE	13	54	42								
		EPCP	Z		57	49								
		ES	NE		59	56								
		EL	ZNE	14	02									
	MSZ	EP	Z	13	54	58								
	CIZ	EP	ZNE	13	55	31								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 14	12	41	17.4	4.1S	102.4E		33KM	5.2 S SUMATRA						WEL 74
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNW	EP	Z	12	52	27								
	MJZ	EP	Z	12	52	36								
	KRP	EP	Z	12	52	54								
	MNG	EP	Z	12	52	54								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 14	14	06	48.3	43.4S	39.1E		33KM	5.3 PRINCE EDWARD IS						WEL 97
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	EP	Z	14	19	07								
	MJZ	EP	Z	14	19	11								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 14	14	13	40.8	11.3S	165.7E		33KM	4.7 SANTA CRUZ IS						WEL 31
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	14	19	30								
	MNG	EP	Z	14	19	51								
	WEL	P	Z	14	19	56								
		ES	NE		25	02								
		EL	NE		27									
	ROX	EP	Z	14	20	25								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 15	01	25	54.9	8.5S	111.6E		33KM	5.0 JAVA						WEL 54
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MJZ	EP	Z	01	37	12								

	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 16	03	50	45.0	18.5S	169.4E		250KM	4.2 NEW HEBRIDES						WEL 23
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	03	55	26								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 16	04	44	27.3	11.3S	165.7E		33KM	5.3 SANTA CRUZ IS						WEL 31
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	TUA	EP	Z	04	50	27								
	MNG	EP	Z	04	50	37								
	WEL	ES	NE	04	55	48								
		EL	ZNE		58									
	MJZ	EP	Z	04	51	01								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 16	07	43	29.0	31.9S	179.4E		351KM	5.4 KERMADEC IS						WEL 10
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	ECZ	ES	Z	07	51	08								
	GNZ	EP	Z	07	50	10								
		E	Z		51	24								
		ES	Z			31								
	TUA	ES	Z	07	51	34								
	CNZ	EP	Z	07	50	25,5								
		ES	Z		51	56,5								
	TNZ	EP	Z	07	50	29								
		E	Z		52	20								
	MNG	EP	Z	07	50	36								
		ES	Z		52	19								
	WEL	EP	Z	07	50	47,5								
		ES	ZNE		52	36								
	KAI	ES	X	07	53	30								
	CIZ	EP	Z	07	52	10								
		ES	Z		53	31								
	GPZ	ES	N	07	53	41,5								
NZ-DETERMINED ORIGIN														
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 16	11	09	08.4	10.7S	161.3E		40KM	5.1 SOLOMON IS						WEL 33
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	GNZ	EP	Z	11	15	29								
	WEL	EP	Z	11	15	38								
		ES	NE		20	30								
		EL	ZNE		23									
	MJZ	EP	Z	11	15	51								
	MSZ	EP	Z	11	15	53								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 16	11	45	16.2	10.7S	161.3E		33KM	4.7 SOLOMON IS						WEL 33
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	11	52	41								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 16	14	25	22.9	11.2S	165.7E		6KM	5.3 SANTA CRUZ IS						WEL 31
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	GNZ	EP	Z	14	32	26								
	WEL	EP	Z	14	32	42								
		ES	NE		37	46								
		EL	ZNE		40									
	MJZ	EP	Z	14	33	01								
	MNW	EP	Z	14	33	21								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 16	14	39	09.0	5.8N	123.5E		42KM	5.2 PHILIPPINE IS						WEL 66
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNW	EP	Z	14	49	44								
	MJZ	EP	Z	14	49	47								

	WEL	EP	Z	14 49 53									
	TUA	EP	Z	14 49 56									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 16	14	48	49.3	11.3S 165.7E	33KM	5.1 SANTA CRUZ IS							WEL 31
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	TUA	EP	Z	14 54 49									
	MNG	EP	Z	14 54 59									
	MSZ	EP	Z	14 55 25									
	ROX	EP	Z	14 55 33									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 16	14	59	40.0	11.3S 165.7E	33KM	4.7 SANTA CRUZ IS							WEL 31
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	TUA	EP	Z	15 04 41									
	MNG	EP	Z	15 04 51									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 16	16	02	22.7	11.3S 165.6E	38KM	5.1 SANTA CRUZ IS							WEL 31
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	TUA	EP	Z	16 08 23									
	WEL	EP	Z	16 08 39									
		ES	Z	13 40									
		EL	ZNE	16									
	ROX	EP	Z	16 09 11									
		ES	E	14 23									
		EL	ZNE	17									
	MSZ	EP	Z	16 09 00									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 17	00	51	53.0	11.4S 165.6E	33KM	4.5 SANTA CRUZ IS							WEL 31
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP	Z	00 58 03									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 17	01	07	54.3	27.4S 63.3W	590KM	5.5 ARGENTINA							WEL 93
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	WEL	E PP	Z	01 22 14									
	MJZ	E PP	ZNE	01 22 16									
	MSZ	E PP	Z	01 22 19									
	KRP	E PP	Z	01 22 22									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 17	01	17	19.4	14.7S 167.2E	90KM	4.9 NEW HEBRIDES							WEL 27
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE	01 22 29									
	WEL	ES	NE	01 29 46									
	MSZ	EP	Z	01 23 20									
	MNW	EP	Z	01 23 29									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 17	03	21	18.3	20.2S 177.8W	500KM	4.6 FIJI							WEL 22
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	03 25 04									
	GNZ	EP	Z	03 25 05									
		ES	Z	28 24									
	MNG	EP	Z	03 25 24									
		EP	Z	24									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 17	10	50	46.5	30.6S 177.8W	33KM	4.6 KERMADEC IS							WEL 11
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	ONE	EP	Z	10 52 52									
	KRP	EP	ZE	10 53 08									
	MNG	EP	Z	10 53 31									
		ES	Z	55 33									
	MSZ	EP	Z	10 54 54									

	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 17	11	59	31.5	38.3N 142.1E	44KM	5.9 E HONSHU, JAPAN							WEL 85
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZE	12 11 56									
	WEL	EP	Z	12 12 07									
		EPP	Z	15 23									
		ES	ZNE	22 17									
		ESS	NE	27 57									
		EL	ZNE	34									
	MSZ	EP	Z	12 12 08									
	ROX	EP	Z	12 12 24									
		ES	NE	22 36									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 17	19	51	05.0	11.4S 165.5E	23KM	4.7 SANTA CRUZ IS							WEL 31
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP	Z	19 57 17									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 18	06	19	22.0	52.5N 168.3W	37KM	5.7 ALEUTIAN IS							WEL 95
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	08 31 28									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 18	12	33	36.6	22.6S 172.6E	76KM	4.3 LOYALTY IS							WEL 19
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	12 38 22									
	MNG	EP	Z	12 39 43									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 18	13	46	33.9	58.4S 25.7W	11KM	5.1 S SANDWICH IS							WEL 79
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	18 58 57									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 19	12	38	31.3	11.8S 166.4E	156KM	5.5 SANTA CRUZ IS							WEL 30
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZE	12 44 02									
	WEL	EP	Z	12 44 28									
	MJZ	EP	ZNE	12 44 47									
	MNW	EP	Z	12 45 00									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 19	12	40	12.6	14.8S 178.8W	18KM	6.6 FIJI							WEL 27
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZE	12 45 23									
	MNG	EP	Z	12 45 48									
	MJZ	EP	Z	12 46 29									
	MNW	EP	Z	12 46 49									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 20	00	19	16.0	3.7S 151.9E	33KM	5.2 NEW IRELAND							WEL 43
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	00 26 51									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 20	00	22	53.2	3.9S 152.0E	23KM	5.0 NEW IRELAND							WEL 42
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	00 30 31									
	MNG	EP	Z	00 30 47									
	H	M	S	EPICENTRE	DEPTH	MAG							DIST (DEG)
JAN 20	21	41	46.1	32.9S 175.7W	325KM	5.3 S OF KERMADEC IS							WEL 11
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE	MAG
	ECZ	EP	Z	21 43 21									
		ES	Z	44 42									

	GNZ	EP	Z	21	43	41							
		ES	Z		45	08							
	TUA	ES	Z	21	45	17.5							
	ONE	EP	E	21	43	52							
	KRP	EP	Z	21	43	50							
		ES	Z		45	25							
	CNZ	ES	Z	21	45	27							
	MNG	EP	Z	21	44	08							
		ES	Z		46	02							
	WEL	ES	ZNE	21	46	26							

NZ-DETERMINED ORIGIN

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 21	02	54	00.8	49.8S	114.8W	33KM	5.3 EASTER IS CORD					WEL 48
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	WEL	EP	Z	03	02	25						
		ES	ZE		09	51						
		ESSS	E		14	14						
		EL	ZNE		16							
	MNG	EP	Z	03	02	43						
	KRP	EP	ZE	03	02	51						
	ROX	ES	NE	03	10	02						
		EL	ZNE		15							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 21	13	43	14.1	30.7S	178.2W	65KM	4.9 KERMADEC IS					WEL 12
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	ZNE	13	50	17						
	MNG	EP	Z	13	50	42						
		ES	Z		52	44						
	MJZ	EP	Z	13	51	52						
	MNW	EP	Z	13	52	23						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 21	15	16	37.3	16.4S	178.7W	496KM	3.6 FIJI					WEL 25
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	15	20	55						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 22	12	31	59.9	11.4S	165.2E	16KM	3.8 SANTA CRUZ IS					WEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	12	37	52						
	MNG	EP	Z	12	38	13						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 22	14	21	44.0	8.0S	147.9E	87KM	5.3 E NEW GUINEA					WEL 41
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	14	29	03						
	MNG	EP	Z	14	29	17						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 22	17	29	18.5	20.1S	177.9W	569KM	3.5 FIJI					WEL 22
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	17	33	01						
	MNG	EP	Z	17	33	21						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 22	21	34	35.0	16.5S	173.8W	33KM	4.2 TONGA					WEL 27
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	21	39	45						
	MNG	EP	Z	21	40	05						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 23	09	19	38.4	0.7N	122.5E	166KM	5.2 N CELEBES					WEL 93
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	09	29	45						
	MNG	EP	Z	09	29	51						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 23	11	09	51.8	27.7S	176.9W	60KM	5.1 KERMADEC IS					WEL 15
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	ONE	EP	Z	11	12	32						
	KRP	EP	ZE	11	12	51						
	MNG	EP	Z	11	13	03						
		ES	Z		15	32						
	WEL	ES	ZNE	11	15	55						
		EL	Z		18							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 24	03	05	39.0	41.4N	141.9E	69KM	5.7 HOKKAIDO JAPAN					WEL 58
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	03	18	08						
	MNG	EP	Z	03	18	19						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 24	09	29	12.3	0.6S	21.0W	33KM	4.9 MID-ATLANTIC RIDGE					WEL 136
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	ROX	E(SS)	NE	10	09	53						
	WEL	EPK	Z	09	49	27						
		E(SS)	Z	10	10	44						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 25	07	31	35.3	20.6S	178.4W	517KM	4.8 FIJI					WEL 21
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	07	35	14						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 25	08	18	10.5	11.5S	165.7E	62KM	4.8 SANTA CRUZ IS					WEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	08	23	57						
	MNG	EP	Z	08	24	19						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 25	10	44	27.2	19.9S	178.1W	599KM	4.2 FIJI					WEL 22
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	P	Z	10	48	12						
	MNG	EP	Z	10	48	32						
	MNW	IP	Z	10	49	36.2	D					

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 26	02	11	20.7	58.4S	25.6W	33KM	5.0 S SANDWICH IS					WEL 79
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	02	23	40						
	MNG	EP	Z	02	23	27						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 26	20	25	38.4	11.2S	165.6E	33KM	4.7 SANTA CRUZ IS					WEL 31
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	20	31	28						
	MNG	EP	Z	20	31	49						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JAN 27	08	10	56.9	31.7S	179.5W	411KM	5.5 KERMADEC IS					WEL 11
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	ECZ	EP	Z	08	12	35						
		ES	Z		13	49						
	KRP	EP	Z	08	12	45						
	TUA	EP	Z	08	12	48						
		E	Z		14	13						
		ES	Z		18							
	TNZ	EP	Z	08	13	09						
	MNG	EP	Z	08	13	09						
		ES	Z		14	58						
	WEL	EP	Z	08	13	22.5						

		ES		ZNE	15 18								
	COB	ES		E	08 15 33								
	GPZ	ES		N	08 16 21								
NZ-DETERMINED ORIGIN													
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 27	12	37	13.5	20.5S	177.8W	440KM	4.6 FIJI						AZIMUTH 22
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	KRP	EP		Z	12 41 01								
	MNG	EP		Z	12 41 22								
		ES		Z	44 51								
	MNW	EP		Z	12 42 27								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 27	14	13	47.3	31.6S	179.5E	470KM	KERMADEC IS						AZIMUTH 11
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	ONE	EP		E	14 15 25								
		ES		E	16 46								
	AUC	IP		Z	14 15 31.0 U								
	ECZ	EP		Z	14 15 23								
		E		Z	26.4								
		ES		Z	16 40								
	KRP	P		Z	14 15 35.0								
		E		Z	36.9								
		ES		Z	17 03								
	TUA	IS		Z	14 17 07								
	GNZ	EP		Z	14 15 45.7 U								
		ES		Z	17 16								
	TNZ	EP		Z	14 15 52.5								
		E		Z	54.0								
	MNG	EP		Z	14 15 57								
		E		Z	59.1								
		E		Z	17 41.0								
		S		Z	45.2								
	WEL	IP		Z	14 16 07.0 U								
		ES		ZNE	18 01								
	COB	ES		E	14 18 13								
	GPZ	EP		N	14 16 42								
		ES		N	18 58								
	CIZ	E?		Z	14 16 45								
		EP		Z	57								
		E		Z	19 18								
		ES		Z	23								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 28	01	40	26.9	24.8N	121.8E	90KM	5.2 TAIWAN						AZIMUTH 92
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	MNW	EP		Z	01 52 36								
	MNG	EP		Z	01 52 37								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 28	13	52	58.3	52.4N	169.5W	47KM	6.7 ALEUTIAN IS						AZIMUTH 94
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	WEL	EP		Z	14 06 14								
		ES		NE	16 42								
		EPS		N	18 30								
		ESS		N	23 29								
		ESSS		E	26 51								
		E		E	29 53								
		ELQ		NE	32								
		ELR		Z	36								
	ROX	EP		Z	14 06 44								
		ES		NE	17 12								
		EPS		N	19 03								
		ESS		N	55 04								
		ESSS		N	28 29								

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 28	17	42	01.5	52.4N	169.4W	50KM	5.6 ALEUTIAN IS						AZIMUTH 94
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	MNG	EP		Z	17 55 10								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 29	01	17	22.6	11.6S	165.1E	33KM	4.6 SANTA CRUZ IS						AZIMUTH 31
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	MNG	EP		Z	01 23 34								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 29	01	58	46.0	11.6S	165.1E	33KM	4.8 SANTA CRUZ IS						AZIMUTH 31
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	MNG	EP		Z	02 04 55								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
JAN 29	17	45	33.3	16.2S	173.8W	134KM	4.5 TONGA						AZIMUTH 27
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	MNG	EP		Z	17 51 56								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
FEB 01	15	19	56.8	4.8S	103.2E	33KM	5.3 S SUMATRA						AZIMUTH 73
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	MNG	EP		Z	15 31 27								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
FEB 01	17	44	41.2	28.8S	179.9W	274KM	4.0 KERMADEC IS						AZIMUTH 13
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	ECZ	EP		Z	17 46 52								
	GNZ	EP		Z	17 46 59								
	MNG	EP		Z	17 47 27								
		E		Z	49 31								
		ES		Z	39								
	WEL	EP		Z	17 47 39								
		ES		Z	49 57								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
FEB 02	06	25	49.8	57.9S	25.7W	81KM	5.8 S SANDWICH IS						AZIMUTH 80
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	CIZ	EP		Z	06 37 28								
	MSZ	EP		Z	06 37 35								
	WEL	EP		Z	06 37 50		-0.48						6.5
		EPCP		Z	38 03								
		ES		ZE	48 06								
		EL		Z	07 03								
	KRP	EP		Z	06 38 06		-0.54						6.5
		EPCP		Z	20								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
FEB 02	18	18	17.4	4.3S	153.7E	247KM	5.0 NEW IRELAND						AZIMUTH 41
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	KRP	EP		Z	18 25 19								
		EPCP		Z	27 25								
	TUA	EP		Z	18 25 31								
	MSZ	EP		Z	18 25 45								
	MNW	EP		Z	18 25 52								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
FEB 03	02	55	59.5	20.8S	175.3W	70KM	4.6 TONGA						AZIMUTH 22
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AZIMUTH	TRAVEL TIME MAG
	KRP	EP		Z	03 00 19								
	MNG	EP		Z	03 00 41								
		ES		Z	04 26								
	MSZ	EP		Z	03 01 47								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 03	12 30 53.0	5.6S 110.5E	569KM	5.1 JAVA SEA					WEL 57
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 12 40 28							
	MNG EP	Z 12 40 53							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 03	12 48 09.2	5.6S 110.5E	560KM	5.4 JAVA SEA					WEL 57
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 12 57 44							
	MJZ EP	Z 12 57 54							
	KRP EP	Z 12 58 09							
	MNG EP	Z 12 58 10							
FEB 03	GNZ E	Z 20 20 26							
	ES	Z 35							
	KRP EP	Z 20 18 28							
	MNG EP	Z 20 18 49							
	ES	Z 21 15							
	WEL EP	Z 20 18 53							
	ES	Z 21 31							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 06	01 35 17.9	20.2S 176.2W	280KM	4.1 FIJI					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 01 39 22							
	MJZ EP	Z 01 40 31							
FEB 06	KRP EP	Z 01 46 01		-1.12					
	MNW EP	Z 01 17 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 06	03 10 33.4	22.8S 176.1W	90KM	5.1 S OF FIJI					WEL 20
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ EP	Z 03 14 25							
	KRP EP	Z 03 14 25							
	MSZ EP	Z 03 15 56							
	MNW EP	Z 03 16 04							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 07	08 29 57.9	13.9N 144.8E	138KM	5.4 MARIANA IS					WEL 92
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 08 38 44							
	E*P?	Z 39 17							
	MNG EP	Z 08 38 58							
	WEL EP	Z 08 39 00							
	E	Z 26							
	ES	N 47 11							
	EL	Z 58							
	MSZ EP	Z 08 39 04							
	E*P?	Z 36							
	MJZ EP	Z 08 39 05							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 07	10 39 02.8	22.5S 179.5W	532KM	4.1 S OF FIJI					WEL 19
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 10 42 22							
	MNG EP	Z 10 42 42							
	ES	Z 45 44							
	MNW EP	Z 10 43 48							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 07	22 56 10.0	2.4S 138.3E	33KM	5.0 W NEW GUINEA					WEL 51
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 23 05 04							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 07	23 49 21.8	17.9S 178.5W	571KM	3.9 FIJI					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 23 53 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 08	15 35 42.8	58.3S 13.0W	33KM	5.1 SW ATLANTIC OCEAN					WEL 91
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 15 47 48							
FEB 08	KRP EP	Z 19 30 57							
	GNZ EP	Z 19 30 53							
	ES	Z 32 37							
	MNG EP	Z 19 31 17							
	ES	Z 33 29							
	WEL EP	Z 19 31 31							
	ES	ZNE 33 49							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 09	15 24 47.2	2.9N 74.9W	58KM	6.3 COLOMBIA					WEL 107
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	WEL EP	Z 15 39 04							
	EPP	Z 43 28							
	ESKS	E 49 41							
	ES	N 51 17							
	EPS	ZE 52 53							
	ESS	ZN 58 51							
	ELR	NE 16 09							
	ELR	Z 15							
	MSZ EPP	Z 15 43 57							
	KRP EPP	Z 15 43 29							
	MNG EPP	Z 15 43 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 09	20 15 35.6	19.5S 176.1W	308KM	3.9 FIJI					WEL 23
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	Z 20 20 43							
	GNZ EP	Z 20 20 43							
	MNG EP	Z 20 21 03							
	ES	Z 24 50							
	MNW P	Z 20 22 11							
	WEL EP	Z 20 21 12							
	MJZ EP	Z 20 21 47							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 10	11 29 46.4	7.3S 128.5E	27KM	5.3 BANDA SEA					WEL 53
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ P	Z 11 38 45							
	MJZ EP	Z 11 38 53							
	MNG EP	Z 11 39 07							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 11	09 27 29.6	52.0N 106.2E	5KM	5.4 LAKE BAIKAL					WEL 110
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EPKP	Z 09 46 26							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 12	17 54 35.9	5.9S 149.3E	95KM	5.2 NEW BRITAIN					WEL 42
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	Z 18 02 02		-1.21					5.6
	MNG P	Z 18 02 17							
	GNZ EP	Z 18 02 18		-0.80					6.0
	MJZ EP	Z 18 02 21							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 13	15	29	05.1	5.1S	153.1E	57KM	5.0 NEW IRELAND					WEL 41
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	15	36 24							
		EPCP	Z		38 36							
	GNZ	EP	Z	15	36 38							
	MSZ	EP	Z	15	36 50							
	MNG	EP	Z	15	36 42							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 13	23	14	19.6	52.7N	34.1W	10KM	N ATLANTIC OCEAN					WEL 157
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EPKP	Z	23	34 26							
	WEL	EPKP	Z	23	34 27							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 14	01	35	04.7	13.7N	96.5E	27KM	ANDAMAN IS					WEL 98
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	01	49 03		-1.05					6.3
	MNG	EP	Z	01	49 05							
		EPP	Z		52 41							
	WEL	EP	Z	01	49 11							
		EPS	E	02	01 22							
		ESS	ZE		06 09							
		EL	ZNE		19							
	MJZ	EP	Z	01	48 55							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 14	05	02	38.4	13.3S	171.3E	635KM	5.6 NEW HEBRIDES					WEL 28
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	Z	05	07 14		-0.23					5.3
		ES	E		10 55							
		ESCP	Z		13 11							
	MNG	P	Z	05	07 34							
		ES	Z		11 27							
		ESCP	Z		13 16							
	MJZ	P	Z	05	08 04							
		ES	N		12 21							
	ROX	EP	Z	05	08 17							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 14	18	13	14.4	19.4S	172.8W	33KM	4.9 TONGA					WEL 24
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	18	18 05		-0.96					5.3
	MNG	EP	Z	18	18 26							
	MNW	EP	Z	18	19 40							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 15	15	06	59.9	11.9S	165.6E	24KM	4.3 SANTA CRUZ IS					WEL 30
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	15	12 44							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 15	16	11	11.8	9.0S	71.3W	597KM	6.2 ECUADOR					WEL 102
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	WEL	EP	Z	16	24 03							
		E•PP	Z		26 14							
		SKS	E		33 44							
		SP	Z		36 23							
		E	ZE		37 38							
		ESS	ZE		41 10							
		ESSS	Z		45 57							
		EL	Z		59 04							
	KRP	EP	Z	16	24 07							
		E•PP	Z		26 19							
	ROX	EP	Z	16	24 11							

		E•PP	Z		26 27							
		SKS	NE		33 52							
		SP	NE		36 49							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 15	19	32	21.0	24.6S	177.6W	70KM	4.9 S OF FIJI					WEL 18
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE	EP	E	19	35 26							
	KRP	EP	Z	19	35 42							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 16	17	01	23.4	7.1S	123.3E	653KM	4.7 BANDA SEA					WEL 57
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	17	10 06							
	MNG	EP	Z	17	10 10							
	TUA	EP	Z	17	10 15							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 17	00	37	42.5	4.4N	125.6E	66KM	5.5 TALAUD IS					WEL 64
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	00	48 02		-0.82					6.3
	MJZ	P	Z	00	48 03							
	MNG	P	Z	00	48 09							
	TUA	P	Z	00	48 11							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 17	02	45	51.0	6.7S	147.5E	62KM	4.6 E NEW GUINEA					WEL 42
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP	Z	02	54 39							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 17	10	10	51.5	23.7S	175.2W	19KM	6.4 TONGA					WEL 19
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	10	14 37							
		ES	E		17 42							
	MNG	EP	Z	10	14 59							
		ES	Z		18 14							
		EPCS	Z		23 47							
		ESCS	Z		27 30							
	WEL	EP	Z	10	15 18							
		ES	NE		18 34							
		ELQ	NE		19 32							
		ELR	Z		20 39							
	CIZ	EP	ZNE	10	15 30							
		ES	NE		18 51							
	MSZ	EP	Z	10	16 16							
		ES	Z		20 32							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 18	02	39	19.4	5.9S	153.2E	41KM	5.4 NEW IRELAND					WEL 40
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	Z	02	46 35		-0.88					5.0
		PCP	Z		48 50							
		E	Z		49 04							
	GNZ	P	Z	02	46 49		-0.53					6.3
	MNG	P	Z	02	46 51							
	MNW	EP	Z	02	47 05							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 18	06	43	31.2	6.2S	130.1E	159KM	5.0 BANDA SEA					WEL 33
				H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW	EP	Z	06	52 19							
	KRP	EP	Z	06	52 25							
	MNG	P	Z	06	52 32							
		E•PP	Z		53 14							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 19	12 28 10.3	19.1N 145.0E	380KM	4.7 MARIANA IS					AEL 96
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 12 38 03							
	MNG EP	Z 12 38 16							
	MSZ EP	Z 12 38 23							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 19	14 21 52.8	21.7S 174.9W	33KM	4.4 TONGA					AEL 21
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 14 26 26							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 19	19 25 26.7	18.9S 174.0W	33KM	4.5 TONGA					AEL 24
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 19 30 12		-0.90					5.4
	MNG EP	Z 19 30 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 19	22 14 35.3	9.2S 113.1E	80KM	6.2 S OF JAVA					AEL 93
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW EP	Z 22 24 31		-0.59					6.4
	MJZ EP	Z 22 24 38							
	E.P?	Z 25 03							
	WEL EP	Z 22 24 53		-0.23					5.9
	ES	ZNE 33 10							
	KRP EP	Z 22 24 55		-0.73					5.4
	.P?	Z 25 20							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 19	23 23 28.0	0.0N 124.2E	101KM	5.7 MOLUCCA SEA					AEL 91
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 23 38 18							
	MJZ P	Z 23 38 26							
	KRP P	Z 23 38 29		-0.62					5.1
	WEL EP	Z 23 38 34							
	ES	E 46 50							
	ESS	E 51 19							
	ESSS	E 54 13							
	EL	Z 57							
FEB 20	KRP EP	Z 02 39 38		-0.98					
	MNG EP	Z 02 40 00							
	ES	Z 42 26							
	WEL EP	Z 02 40 10		-0.75					

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	08 47 46.6	2.7N 128.0E	83KM	5.2 HALMAHERA					AEL 91
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 08 57 38							
	MJZ EP	Z 08 57 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	09 48 08.8	9.3N 125.6E	44KM	4.6 PHILIPPINE IS					AEL 98
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 09 58 55							
	KRP EP	Z 09 58 55							
	MJZ EP	Z 09 58 58							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	12 14 33.7	29.2N 129.2E	22KM	5.1 RYUKYU IS					AEL 92
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 12 26 41							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	15 18 39.9	33.7N 75.3E	24KM	5.7 E KASHMIR					AEL 118
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EPKP	Z 15 37 18							
	KRP EPKP	Z 15 37 23							
	MNG EPKP	Z 15 37 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	18 01 32.5	15.1S 167.5E	78KM	NEW HEBRIDES					AEL 27
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 18 06 40							
	MNG EP	Z 18 07 02							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	22 41 44.6	11.3S 166.3E	22KM	4.7 SANTA CRUZ IS					AEL 30
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 22 47 49							
	MJZ EP	Z 22 48 13							
	MSZ EP	Z 22 48 17							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 20	23 03 37.3	11.3S 166.3E	33KM	SANTA CRUZ IS					AEL 30
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 23 09 42							
	MJZ EP	Z 23 10 05							
	MSZ EP	Z 23 10 10							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 21	09 11 55.2	14.1N 146.4E	70KM	5.2 MARIANA IS					AEL 61
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 09 21 46							
	MSZ EP	Z 09 22 07							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 21	14 04 34.9	5.1S 151.6E	99KM	5.2 NEW BRITAIN					AEL 42
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	Z 14 11 56		-1.31					5.5
	GNZ P	Z 14 12 11		-0.80					6.0
	MNG P	Z 14 12 12							
	MJZ EP	Z 14 12 19							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 21	18 42 07.2	1.5N 127.2E	129KM	5.2 HALMAHERA					AEL 61
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ P	Z 18 51 52							
	KRP P	Z 18 51 58		-0.95					6.1
	MJZ P	Z 18 51 59							
	GNZ P	Z 18 52 11		-0.58					6.5

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 22	03 51 15.0	36.7S 97.3W	33KM	4.7 W CHILE RISE					AEL 56
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 04 01 57							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 22	13 54 34.7	11.8S 166.4E	84KM	4.8 SANTA CRUZ IS					AEL 30
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 14 00 11							
	MNG EP	Z 14 00 33							
	MJZ EP	Z 14 00 57							
	MSZ EP	Z 14 01 01							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 22	18 25 46.7	19.5S 169.0E	87KM	5.6 NEW HEBRIDES					AEL 22
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP IP	ZE 18 31 05.6	U	0.13					6.3

	GNZ	EP	Z	18	31	19		0.59					5.3
	WEL	EP	Z	18	31	37							
		ES	ZNE		35	36							
		EL	ZNE		37								
	MJZ	EP	Z	18	31	57							
	CIZ	EP	Z	18	32	23							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 22	19	53	38.8	7.3S	156.0E	63KM		SOLOMON IS				WEL 38
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNG	EP	Z	20	05	47						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 22	23	27	58.0	58.1S	25.7W	33KM	5.0	S SANDWICH IS				WEL 88
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MSZ	EP	Z	23	39	48						
	MJZ	EP	Z	23	39	51						
	MNG	EP	Z	23	40	05						
	KRP	P	Z	23	40	19		-0.98				5.2

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 23	04	53	24.4	5.0S	152.3E	63KM	4.7	NEW BRITAIN				WEL 41
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	KRP	EP	Z	05	00	46		-1.33				5.3
	MNG	EP	Z	05	01	02						
	MSZ	EP	Z	05	01	10						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 23	05	58	28.5	21.6S	174.4W	21KM	4.8	TONGA				WEL 22
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MSZ	EP	Z	06	04	17						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 23	14	25	43.9	24.2N	122.5E	48KM	5.4	TAIWAN				WEL 91
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	KRP	EP	Z	14	37	47						
	MNG	EP	Z	14	37	55						
	GNZ	EP	Z	14	37	57						
FEB 24	MNG	P	Z	10	15	58						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 24	10	42	42.4	7.2S	123.8E	575KM	5.0	BANDA SEA				WEL 96
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MSZ	P	Z	10	51	11						
	KRP	EP	Z	10	51	28		-1.03				5.1
	TUA	EP	Z	10	51	37						
	MNG	EP	Z	10	51	32						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 25	05	41	18.0	10.3S	161.3E	101KM	4.9	SOLOMON IS				WEL 33
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	GNZ	EP	Z	05	47	33		-0.98				5.5
	MNG	EP	Z	05	47	39						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 25	11	20	47.4	0.0N	123.9E	70KM	5.8	N CELEBES				WEL 82
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNW	P	Z	11	30	45						
	MJZ	P	Z	11	30	50						
	KRP	EP	Z	11	30	53		-0.76				5.4
	MNG	P	Z	11	30	59						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 25	11	39	46.0	0.1S	123.9E	105KM	5.7	N CELEBES				WEL 82
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNW	EP	Z	11	48	39		-0.66				5.5

	MJZ	EP	Z	11	48	44							
	KRP	EP	Z	11	48	47		-0.82					5.3
	WEL	EP	Z	11	48	53		-0.65					5.5

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 25	15	45	51.8	19.6S	176.0W	358KM	4.5	TONGA				WEL 23
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	KRP	EP	Z	15	50	53							
	GNZ	EP	Z	15	50	54		-0.93					5.3

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 26	03	57	57.7	49.8N	78.1E	0KM	6.0	E KAZAKH				WEL 124
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	KRP	EP	Z	04	16	53							
	MJZ	EP	Z	04	16	55							
	MNG	EP	Z	04	16	56							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 26	10	29	14.2	6.2S	149.1E	54KM	5.1	NEW BRITAIN				WEL 42
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	KRP	EP	Z	10	36	42							
	MNG	EP	Z	10	36	58							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 26	11	57	54.8	24.3S	179.8E	535KM	4.4	S OF FIJI				WEL 17
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	WEL	EP	Z	12	01	25							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 26	13	33	42.8	11.6S	166.2E	44KM	4.6	SANTA CRUZ IS				WEL 31
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNG	EP	Z	13	39	47							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 26	17	19	15.9	6.6S	154.9E	78KM	4.8	SOLOMON IS				WEL 39
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNG	EP	Z	17	26	31							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 27	02	29	34.8	38.3S	74.7W	33KM	4.9	NEAR CENTRAL CHILE				WEL 79
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNG	EP	Z	02	41	33							
	MJZ	EP	Z	02	41	36							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 27	11	13	02.1	23.9S	175.3W	33KM	4.6	TONGA				WEL 19
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNG	EP	Z	11	17	09							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 27	15	50	58.0	6.3S	154.8E	77KM	4.9	SOLOMON IS				WEL 39
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNG	EP	Z	15	58	16							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 28	09	37	18.0	32.7N	141.7E	23KM	5.5	S OF HONSHU, JAPAN				WEL 80
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	KRP	EP	Z	09	49	11							
	MNG	EP	Z	09	49	23							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
FEB 28	11	54	32.0	5.2S	129.7E	229KM	5.2	BANDA SEA				WEL 54
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN TN	AB TE MAG
	MNG	EP	Z	12	03	33							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
FEB 28	12	27	34.1	21.2S 179.1W	591KM	4.8 FIJI					AEL 21
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	MNG	EP		Z	12 31 27						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 02	05	59	28.2	24.6S 179.6W	480KM	4.5 S OF FIJI					AEL 17
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	ECZ	EP		Z	06 03						
	WEL	EP		ZNE	06 03 02		-0.71				5.3
		ES		ZNE	04 56						
	GNZ	ES		Z	06 04 02						
	KRP	ES		ZN	06 04 12						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 03	03	01	36.6	34.7S 99.4W	33KM	4.4 W CHILE RISE					AEL 65
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	MNG	EP		Z	03 12 57						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 03	08	52	48.8	0.2S 129.8E	47KM	5.0 HALMAHERA					AEL 58
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	KRP	EP		Z	09 02 27						
	MJZ	EP		ZNE	09 02 29						
	MNW	EP		Z	09 02 32						
	MNG	EP		Z	09 02 34						
	MSZ	EP		Z	09 02 34						
	WEL	ELQ		N	09 18 00						
		ELR		ZNE	21 16						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 03	12	44	00.2	50.3S 139.6E	33KM	S OF AUSTRALIA					AEL 28
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	MJZ	EP?		Z	12 48 51						
	WEL	EP		Z	12 49 42						
		E		Z	50 02						
	MNG	EP		Z	12 49 46						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 03	12	45	54.9	50.3S 139.8E	12KM	5.1 S OF AUSTRALIA					AEL 28
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	MJZ	EP		Z	12 50 47						
		E		Z	51 06						
	WEL	EP		Z	12 51 12						
		ELQ		NE	55 20						
		ELR		ZNE	57 40						
	MNG	EP		Z	12 51 39						
	KRP	EP		Z	12 51 56						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 03	14	40	14.1	50.2S 139.8E	33KM	4.7 S OF AUSTRALIA					WEL 28
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	MNW	EP		Z	14 44 36						
	MJZ	EP		Z	14 44 48						
		E		ZE	45 06						
	MNG	EP		Z	14 45 49						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 03	20	49	47.0	19.0S 169.3E	215KM	4.5 NEW HEBRIDES					WEL 25
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	KRP	IP		Z	20 54 02.5	U					
	WEL	EP		ZNE	20 54 30						
		ES		N	57 41.5	U					

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 04	05	09	24.2	21.4N 121.8E	134KM	5.9 TAIWAN					AEL 79
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	KRP	IP		Z	05 21 09						
	MNG	P		Z	05 21 10.5						
	WEL	E		ZNE	05 23 15.2						
	MNW	EP		Z	05 21 14						
		ES		Z	30 50						
	MJZ	IP		Z	05 21 14.9	U					

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 04	06	16	21.9	18.9S 175.4W	225KM	5.7 TONGA					AEL 24
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	GNZ	EP		Z	06 20 49						
		ES		Z	24 22						
	KRP	P		ZN	06 20 50.5	U					
		S		ZN	24 37.5						
	MNG	ES		Z	06 24 55.5						
		ISCP		Z	28 11.9						
		ESCS		Z	31 50						
	WEL	P		ZNE	06 21 19.5						
		PP		ZNE	22 24						
		ES		ZNE	25 16						
		ESS		N	47						
		BL		ZNE	26 56						
		SCP		Z	28 13.1						
		SCS		ZNE	32 01						
	KAI	P		X	06 21 40.5						
		ES		X	25 53						
	MJZ	EP		ZNE	06 21 54						
		ES		ZN	26 15						
		ESCP		Z	28 21						
		ESCS		ZNE	32 14						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 04	10	45	40.3	11.4S 165.7E	49KM	4.7 SANTA CRUZ IS					AEL 31
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	KRP	EP		Z	10 49 08						
	MNW	EP		Z	10 49 40						
	MJZ	EP		Z	10 49 53						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 04	17	23	19.2	19.2S 174.0W	49KM	4.5 TONGA					WEL 24
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	KRP	EP		ZN	17 28 00						
	MNG	EP		Z	17 28 21						

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 04	17	58	06.4	39.2N 24.6E	33KM	AEGEAN SEA					WEL 157
					H M S	DIR	LOG.A/T	AZ	TZ	AN	TN AE TE MAG
	WEL	EPKP		Z	18 17 58						
		E		Z	18 29						
		ESKP		Z	21 37						
		E(SKKS)		E	28 54						
		E		ZE	32 46						
		E		ZE	35 30						
		E		N	59 47						
		EL		ZNE	19 17 10						
		EL		ZNE	19 30					10 19	4 21
	KRP	EPKP		ZN	18 18 12						
		E(PP)		Z	21 08						
		ESKP		Z	29						
	MNG	EPKP		Z	18 18 20						
	MJZ	EPKP		ZNE	18 18 23						
	GNZ	EPKP		Z	18 18 35.5						

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 04	22	41	14.5	7.8N 146.2E	20KM	5.1 CAROLINE IS						WEL 99
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP		P	Z	22 50 33.5							
			•P?	Z	43.4							
	MNW		EP	Z	22 50 57.5							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	02	41	58.6	3.9N 126.6E	83KM	5.0 TALAUD IS						WEL 61
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW		EP	Z	02 51 57.5							
			E(•P?)	Z	52 07							
			ES	Z	59 26							
	MSZ		EP	Z	02 52 01							
	WEL		P	Z	02 52 06.4							
	KRP		P	Z	02 52 08.9							
	MJZ		EP	ZNE	02 52 10							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	04	40	17.8	30.5N 137.6E	490KM	5.1 S OF HONSHU JAPAN						WEL 79
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP		IP	ZN	04 51 20.7	U	-1.16					5.4
			E•P?	Z	53 08							
	MNW		EP	Z	04 51 30							
	MNG		P	Z	04 51 31.0							
			EPC?	Z	37							
			E•P?	Z	53 20							
	MSZ		EP	Z	04 51 35.5							
	MJZ		P	ZNE	04 51 36.0							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	08	11	56.8	22.7S 177.5W	227KM	4.7 S OF FIJI						WEL 89
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ		EP	Z	08 15 28							
			ES	Z	18 17							
	KRP		EP	ZN	08 15 34.5							
			ES	Z	18 39							
	WEL		IP	Z	08 15 36.0	U	-0.69					5.1
			ES	ZNE	19 31							
	MNG		P	Z	08 15 56							
			E	Z	19 10							
			ES	Z	14.5							
	MJZ		EP	Z	08 16 48							
			E•P?	Z	17 33							
			ES	ZE	20 50.5							
	MSZ		EP	Z	08 17 02							
	MNW		EP	Z	08 17 04							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	11	29	49.4	3.7N 95.8E	57KM	5.1 W OF N SUMATRA						WEL 94
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ		P	Z	11 40 55							
	MJZ		EP	Z	11 40 57							
			E(PC?)	Z	41 06							
	WEL		EP	Z	11 41 05							
			ES	ZNE	50 01							
	MNG		EP	Z	11 41 17							
	KRP		P	Z	11 41 18.7							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	12	39	27.5	55.6S 146.1E	33KM	W OF MACQUARIE IS						WEL 24
					H M S	DIP	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KAI		EP?	X	12 42 25							
	WEL		EP	Z	12 42 32							
			ES	ZE	51 12							
	MJZ		P	Z	12 43 55							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	17	14	14.5	11.2S 166.8E	50KM	4.2 SANTA CRUZ IS						WEL 31
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	WEL		EP	Z	17 19 51		-0.66					6.1
	KRP		EP	Z	17 20 08							
	MNG		EP	Z	17 20 15							
	MJZ		EP	Z	17 20 45							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	20	35	14.3	4.0S 129.6E	33KM	6.0 BANDA SEA						WEL 55
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE		P	E	20 44 29							
			ES	E	52 56.5							
	MNG		EP	Z	20 44 46							
MAR 06	GNZ		EP?	Z	23 06 40.5							
	MJZ		EP	Z	23 06 42.5							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 06	23	30	43.4	10.9S 166.4E	24KM	4.9 SANTA CRUZ IS						WEL 31
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE		P	E	23 36 58.5							
	MNG		EP	Z	23 36 59							
	GNZ		EP	Z	23 37 00.5							
	MSZ		EP	Z	23 37 12							
	MJZ		EP	ZE	23 37 19.4							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 07	00	04	46.7	10.7S 166.4E	24KM	4.9 SANTA CRUZ IS						WEL 31
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MJZ		EP	Z	00 11 22							
	MNW		EP	Z	00 11 25							
			E•PP	Z	43							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 07	03	44	04.4	10.8S 166.3E	28KM	4.9 SANTA CRUZ IS						WEL 31
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG		EP	Z	03 50 17							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 07	13	47	31.1	4.0S 129.7E	47KM	5.1 BANDA SEA						WEL 55
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW		EP	Z	13 56 41.5							
			E(PC?)	Z	51							
			E(•PP)	Z	57 09							
	MJZ		EP	Z	13 56 47							
	ONE		S	E	14 04 04							
	KRP		EP	Z	13 56 55							
	MNG		EP	Z	13 56 56							

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
MAR 07	16	21	20.3	4.1N 125.6E	170KM	5.5 TALAUD IS						WEL 54
					H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ		P	Z	16 31 20.9							
			PC?	Z	32							
			E•P?	Z	32 00							
	MNW		P	Z	16 31 25.4							
	KRP		IP	Z	16 31 27.1	D	-1.10					5.8
	MJZ		IP	ZNE	16 31 28.3	D						
	WEL		P	ZNE	16 31 33.4	U						
	MNG		P	Z	16 31 33.9							
	TUA		P	Z	16 31 36.4							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 07	17	22	43.3	10.9S 166.5E	34KM	5.3 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE		S	E 17 33 54							
	MNG		EP	Z 17 28 51							
	MJZ		EP	Z 17 29 19.5							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 07	17	30	56.9	10.8S 166.5E	34KM	5.0 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE		S	E 17 42 04							
	MNG		EP	Z 17 37 11							
			ES	Z 42 17							
	MSZ		EP	Z 17 37 29							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	01	31	57.3	10.7S 166.3E	41KM	4.7 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE		S	E 01 43 09							
	MNG		EP	Z 01 38 08							
	MJZ		EP	Z 01 38 49							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	01	49	59.0	10.7S 166.4E	12KM	5.1 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG		EP	Z 01 54 53							
	ONE		EP	E 01 54 56							
			S	E 59 58							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	04	03	30.8	10.7S 166.5E	33KM	4.8 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG		EP	Z 04 09 43.5							
			ES	Z 14 22							
	ONE		P	E 04 09 49							
	MJZ		EP	Z 04 10 06							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	08	13	07.0	10.8S 166.4E	33KM	4.8 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG		P	Z 08 19 23.5							
	WEL		EP	Z 08 19 35							
	MJZ		EP	Z 08 19 41							
			E	Z 53							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	22	13	56.8	15.6S 167.6E	132KM	4.5 NEW HEBRIDES					WEL 28
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP		IP	ZN 22 18 55.6 U							
	CNZ		EP	Z 22 19 07.9							
	MNG		IP	Z 22 19 16.4 U							
			ES	Z 23 41							
	WEL		EP	Z 22 19 23							
	MJZ		EP	ZNE 22 19 42							
	MNW		EP	Z 22 20 15							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	22	24	17.7	10.9S 166.2E	58KM	4.9 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE		EP	E 22 30 02							
			ES	E 35 58							
	MJZ		EP	Z 22 30 31							
			E•PP	Z 46							
	WEL		P	ZNE 22 30 44.5							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	22	52	13.6	12.3S 166.4E	61KM	4.8 SANTA CRUZ IS					WEL 30
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG		EP	Z 22 58 09							
			ES	Z 23 03 02							
	MNW		EP	Z 22 58 44							
	MJZ		EP	Z 22 58 51							
			E•PP	Z 59 01							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 08	23	07	15.7	17.6S 177.0W	182KM	4.2 FIJI					WEL 25
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP		EP	ZN 23 11 36.5							
	WEL		EP?	Z 23 11 46							
			EL	Z 19 15							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 09	03	24	18.9	10.7S 166.3E	30KM	5.6 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	CNZ		EP	Z 03 30 15.9							
			E•PP	Z 43.5							
	MNG		EP	Z 03 30 26							
			E•PP	Z 42							
	WEL		EP?	Z 03 30 37							
			EL	ZN 40 18							
	MJZ		EP	ZNE 03 30 51.5							
	ROX		IP	Z 03 31 07.4 D							
			EL	ZE 40 20							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 09	03	38	10.2	10.8S 166.4E	34KM	4.6 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG		EP?	Z 03 44 21							
			E•PP	Z 38							
			E	Z 52							
	CNZ		EP	Z 03 44 23							
MAR 09	WEL		IP	Z 05 30 10.6 U							
			ES	ZNE 35 12							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 09	05	38	14.9	10.7S 166.1E	33KM	5.2 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	CNZ		P	Z 05 44 06.1							
			E(•PP)	Z 35							
			E	Z 57.5							
	GNZ		EP	Z 05 44 27							
	MNG		EP	Z 05 44 38							
			E•PP	Z 51							
	WEL		EP	Z 05 45 03							
	MNW		EP	Z 05 45 07.5							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 09	05	52	19.2	10.7S 166.3E	33KM	5.3 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP		EP	ZN 05 58 11							
	MNG		EP	Z 05 58 33							
	WEL		IP	Z 05 58 47							
			ES	ZE 06 03 58							
			EL	ZE 07 50							
			EL	ZNE 09 20							6 18
	MJZ		P	Z 05 58 54.9							
	ROX		EP	Z 05 59 07							
			ES	Z 06 04 33							
			EPCS	N 05 03							
			ELQ	N 08 30							

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          ELR       NE       09 50
      MNW E(*PP)    Z     05 59 38

MAR 09  WEL  EP     Z     06 44 45

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  06 58 35.7    10.6S 166.3E  30KM   6.0 SANTA CRUZ IS                  WEL  31
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      KRP  IP       ZN  07 04 30.8 U       -1.26                                  5.1
      CNZ  EP       Z   07 04 41.8
      MNG  IP       Z   07 04 51.9 U
      GNZ  EP       Z   07 04 53
          E(*PP)    Z      05 08
      WEL  EP       Z   07 04 57                     6  9                         5.3
           E*PP     Z      05 05
           EPP      ZE     06 44                     4 10                         5.3
           ES       ZNE    10 09
           ESS      ZE     12 16
           EL       ZNE    13 52                            10 19         24 24
           EL       ZNE    15 50                    42 18   32 19         25 18
      MJZ   P       ZNE 07 05 14.8 U
            PCP     ZNE    07 56.8
      MSZ   P       Z   07 05 19.5
           E        Z         35
      ROX   P       ZN  07 05 26.2
           EPP      ZN     07 04
           E        Z      09 17
           ES       ZNE    10 32
           EPS      NE        52                            16 24
           ESS      Z      12 50                     7  7
           ELQ      NE     13 20
           ELR      ZNE    15 16                            22 19         40 21
      MNW  E*PP     Z   07 05 44
           EP       Z         25
           E*PP     Z         47.5

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  07 50 57.6    10.8S 166.4E  33KM   5.1 SANTA CRUZ IS                  WEL  31
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      MNG  EP       Z   07 57 09
      CNZ  EP?      Z   07 57 11
      WEL  EP       Z   07 57 17
      MJZ   P       ZN  07 57 30.4
           ES       E   08 02 25

MAR 09  WEL   P     ZNE 08 00 58.0          -0.82
           ES       ZNE    03 17

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  08 10 37.9    11.1S 166.4E  63KM   4.8 SANTA CRUZ IS                  WEL  31
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      ECZ  EP       Z   08 16 21.5
      MNG  EP       Z   08 16 47
      CNZ  EP       Z   08 16 56.5

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  08 15 40.2    10.8S 166.4E  40KM   5.3 SANTA CRUZ IS                  WEL  31
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      MNG  EP       Z   08 22 51
      MJZ  EP       Z   08 23 13

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  09 04 36.4    10.7S 166.3E  33KM   4.5 SANTA CRUZ IS                  WEL  31
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      WEL  EP?      Z   09 10 56
      MJZ  EP       Z   09 11 30.5
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         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  12 55 07.8    10.6S 166.4E  28KM   4.6 SANTA CRUZ IS                  WEL  31
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      ECZ  EP?      Z   13 00 51.5
      MNG  EP       Z   13 01 24
      WEL  EP       Z   13 01 39
      MJZ  EP       Z   13 01 43

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  17 58 33.2    15.5S 175.5W  95KM   4.3 TONGA                          WEL  27
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      KRP  EP       Z   18 03 39.5
      WEL  EP       Z   18 03 50.5

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  18 02 45.7    10.7S 166.3E  59KM   6.4 SANTA CRUZ IS                  WEL  31
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      KRP  EP       ZN  18 08 36
      ONE   PCP     E   18 10 20.2
      CNZ  EP       Z   18 08 47
      MNG  EP       Z   18 08 55
      WEL  EP       Z   18 09 05
           EPP      NE     10 19
           E        ZN     11 24
           E        ZN     12 12                     7 21
           E        E         50
           ES       ZN     14 11
           ESS      ZNE    16 11
           EL       Z      18 47                    18 18
           EL       NE     19 50                            14 20         10 18
      MJZ   P       ZNE 18 09 20.1
           EPCP     Z      11 50
           ES       E      14 36.5
      MSZ   P       Z   18 09 23.4
      MNW  EP       Z   18 09 34

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  18 27 08.1    15.6S 175.3W  28KM   4.6 TONGA                          WEL  27
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      KRP  EP       ZN  18 32 20
      WEL  EP       Z   18 32 53

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  20 54 58.1     6.7S 129.7E 166KM   4.8 BANDA SEA                      WEL  53
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      MNG  EP       Z   21 03 33
      MJZ  EP       Z   21 03 48.5

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 09  21 25 34.6    21.5S 176.3W 283KM   4.8 FIJI                           WEL  21
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      MNG  EP       Z   21 29 43
           E        Z      33 12
           ES       Z         18
      MJZ  EP       ZNE 21 30 32
            S       ZNE    34 49.5
      MNW  EP       Z   21 30 56

         H  M  S      EPICENTRE    DEPTH   MAG                              DIST (DEG)
MAR 10  00 31 17.0    28.7N 138.7E 490KM   5.1 BONIN IS                       WEL  77
                          H  M  S    DIR   LOG.A/T    AZ TZ   AN TV       AE TE  MAG
      MNG   P       Z   00 42 18.0
           ES       Z      51 17

MAR 10  MNG  EP     Z   02 14 46.5
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	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 10	06 33 53.3	23.0S 179.7W	551KM	4.2 S OF FIJI					WEL 19
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP EP	E	06 37 07						
	ES	E	39 52						
	GNZ EP	Z	06 37 08						
	MNG EP	Z	06 37 27						
	ES	Z	40 27						
	MNW EP	Z	06 38 33						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 10	10 13 21.8	17.8S 178.6W	517KM	4.2 FIJI					WEL 24
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	GNZ EP	Z	10 17 29		-0.91				5.4
	MNG EP	Z	10 17 48						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 11	08 33 27.4	10.7S 166.2E	49KM	6.1 SANTA CRUZ IS					WEL 31
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP EP	Z	08 39 17		-1.09				5.4
	WEL EP	Z	08 39 38						
	ES	N	44 48						
	ELQ	NE	48						
	ELR	Z	49			21	18	18 17	20 19
	MJZ EP	ZNE	08 40 00						
	ROX EP	Z	08 40 15						
	ES	E	45 44						
	EL	ZNE	48						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 13	07 37 37.5	20.6S 178.4W	586KM	4.6 FIJI					WEL 21
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	WEL EP	ZNE	07 45 02						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 13	16 06 54.3	40.1S 74.5W	33KM	6.0 S CHILE					WEL 77
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNG EP	Z	16 18 46						
	MJZ EP	ZNE	16 18 48						
	MNW EP	Z	16 18 49						
	KRP EP	Z	16 18 56		-1.05				5.1

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 13	17 27 11.3	3.6N 126.5E	63KM	5.4 TALAUD IS					WEL 53
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNW EP	Z	17 37 21						
	KRP EP	Z	17 37 22						
	MJZ P	ZNE	17 37 24						
	MNG EP	Z	17 37 30						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 13	19 01 01.4	3.6N 126.5E	35KM	5.4 TALAUD IS					WEL 53
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MSZ EP	Z	19 11 10						
	KRP EP	ZE	19 11 13		-1.28				5.9
	MJZ EP	Z	19 11 16						
	MNG EP	Z	19 11 21						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 14	23 24 47.8	23.0S 178.7E	650KM	4.9 S OF FIJI					WEL 19
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP P	Z	23 27 56						
	ES	E	30 32						
	GNZ EP	Z	23 27 58						
	MNG EP	Z	23 28 16						5.4
	WEL EP	Z	23 28 25		-0.66				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 15	22 02 10.0	59.5S 26.1W	33KM	5.7 S SANDWICH IS					WEL 78
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MSZ EP	Z	22 13 52						
	MNG EP	Z	22 14 07						
	GNZ EP	Z	22 14 16						
	KRP EP	Z	22 14 22						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 16	12 09 37.7	22.1S 170.5E	66KM	5.4 LOYALTY IS					WEL 19
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP EP	Z	12 13 24		-0.60				5.5
	WEL EP	Z	12 14 10		-0.31				5.9
	ES	ZNE	17 51						
	EL	ZNE	19						
	MJZ P	Z	12 14 26						
	EPP	Z	52						
	MSZ EP	Z	12 14 35						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 16	17 33 07.5	13.6S 170.7E	637KM	4.8 NEW HEBRIDES					WEL 28
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP EP	Z	17 37 40		-0.73				5.8
	ES	E	41 20						
	MNG IP	Z	17 38 00.5 U						
	ES	Z	41 50						
	MJZ IP	Z	17 38 29						
	ES	Z	42 44						
	MSZ EP	Z	17 38 35						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 17	11 24 45.7	3.6S 150.9E	33KM	NEW IRELAND					WEL 43
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP EP	Z	11 32 27		-1.28				5.5
	WEL EP	Z	11 32 45						
	EPP	ZNE	34 52						
	ES	NE	39 13						
	ESS	NE	42 43						
	EL	ZNE	46			45	20	20 19	27 19
	MSZ EP	Z	11 32 51						
	MJZ EP	ZNE	11 32 52						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 17	13 49 14.4	7.9S 155.5E	32KM	5.3 SOLOMON IS					WEL 37
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP EP	Z	13 55 05						
	MNG EP	Z	13 55 22						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 18	09 27 42.7	20.7S 179.4W	650KM	4.9 FIJI					WEL 21
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP EP	ZE	09 31 14		-1.16				5.0
	MJZ EP	Z	09 32 17						
	MSZ EP	Z	09 32 26						
	MNG EP	Z	09 31 34						
	ES	Z	34 39						
	MSZ ES	Z	09 36 17						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 18	17 49 50.8	36.3N 139.8E	105KM	5.0 HONSHU, JAPAN					WEL 84
			H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP EP	Z	18 01 56						
	MNG EP	Z	18 02 07						
	MJZ EP	Z	18 02 14						
	MSZ EP	Z	18 02 15						

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 18	19 15 35.9	6.0S 146.3E	108KM	5.6 E NEW GUINEA	WEL 43

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	IP	ZE	19 23 15.2	U	-0.93							5.8
MNG	IP	Z	19 23 18.7	U								
	IPP	Z	54									
MSZ	EP	Z	19 23 26									
MJZ	EP	Z	19 23 29									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 19	01 10 45.8	6.7S 129.9E	60KM	5.9 BANDA SEA	WEL 53

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
MNW	EP	Z	01 19 42		-0.82							6.0
MJZ	IP	ZNE	01 19 46.0	U								
MNG	IP	Z	01 19 55.9	U								
KRP	EP	ZE	01 19 49		-0.65							5.4
	ESP	Z	24 49									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 19	04 01 36.7	45.4N 151.3E	33KM	5.7 KURILE IS	WEL 59

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	04 14 19		-1.22							5.8
MNG	EP	Z	04 14 24									
WEL	EP	Z	04 14 35									
	ES	Z	24 58									
	EPS	ZE	26 21									
	ELR	Z	44									
MJZ	EP	ZNE	04 14 42									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 20	08 47 47.5	6.2S 148.3E	52KM	5.1 NEW BRITAIN	WEL 42

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	08 55 21									

MNG NO PIPS FROM MAR 20 AT 0650 TO MAR 28 AT 2018.

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 20	13 31 34.0	45.6N 151.4E	51KM	5.7 KURILE IS	WEL 59

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	13 44 11									
MJZ	EP	Z	13 44 34									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 20	13 40 52.8	45.6N 151.5E	53KM	5.3 KURILE IS	WEL 59

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	13 53 31									
MJZ	EP	Z	13 53 53									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 20	13 52 05.5	45.6N 151.5E	32KM	5.4 KURILE IS	WEL 59

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
MJZ	EP	Z	14 05 05									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 20	19 07 25.2	22.1S 170.6E	28KM	5.5 LOYALTY IS	WEL 17

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	ZE	19 11 19		-0.92							5.3
CNZ	EP	Z	19 11 39									5.4
WEL	EP	ZNE	19 11 56		-0.60							
	ES	ZNE	15 43									
	EL	ZN	17									
MJZ	EP	ZNE	19 12 20									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 21	11 24 44.6	23.8S 175.2W	33KM	5.4 TONGA	WEL 19

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
GNZ	EP	Z	11 28 32		-0.80							5.3

	ES	Z	31 10			
WEL	EP	Z	11 29 08	-0.83		5.4
	ES	ZNE	32 26			
MJZ	EP	Z	11 29 51			
MNW	EP	Z	11 30 14	-0.91		5.6

MAR 21	KRP	EP	Z	18 42 25		
	GNZ	EP	Z	18 42 24		

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 21	19 05 30.3	11.5S 165.6E	39KM	4.9 SANTA CRUZ IS	WEL 31

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	19 12 18									
CNZ	EP	Z	19 12 29									
MSZ	EP	Z	19 13 04									
TUA	EP	Z	19 12 28									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 22	00 10 51.7	11.7S 165.5E	33KM	4.8 SANTA CRUZ IS	WEL 31

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	00 16 40									
WEL	EP	Z	00 17 07									
MSZ	EP	Z	00 17 26									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 22	13 00 26.9	5.4S 146.4E	70KM	5.3 E NEW GUINEA	WEL 44

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	IP	Z	13 08 13.6	D								
MSZ	EP	Z	13 08 26									
WEL	EP	Z	13 08 27		-0.90							6.0
MJZ	EP	ZNE	13 08 30									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 22	17 47 57.0	31.5S 177.8W	300KM	5.3 KERMADEC IS	WEL 11

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
ONE	EP	E	17 49 49									
	E	E	52 37.5									
ECZ	E	Z	17 50 00									
	ES	Z	57									
KRP	EP	Z	17 50 03.5									
	ES	Z	51 53									
GNZ	EP	Z	17 49 45									
	E	Z	50 30									
	ES	Z	51 16									
TUA	EP	Z	17 49 50									
	ES	Z	51 54									
CNZ	E	Z	17 50 26									
	ES	Z	51 54									
WEL	ES	Z	17 52 34									
KAI	ES	Z	17 53 46									
GPZ	ES	N	17 53 39									
CIZ	EP	Z	17 50 59									
	ES	Z	53 02									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 22	21 17 34.3	56.1S 27.6W	23KM	5.4 S SANDWICH IS	WEL 81

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
MSZ	EP	Z	21 29 35									

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
MAR 22	23 45 20.6	14.8S 177.0W	33KM	4.7 FIJI	WEL 27

			H M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
KRP	EP	Z	23 51 23									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 23	00 35 43.1	17.0S 177.1W	55KM	4.8 FIJI					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 00 40 34							

MJZ NO RECORDS FROM MAR 23 AT 0720 TO MAR 28 AT 2105.

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 24	09 00 19.5	6.0S 112.3E	600KM	6.0 JAVA SEA					WEL 65
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW IP	Z 09 09 43.0	D	-0.33					6.1
	E*PP	Z 11 45							
	ROX EP	Z 09 09 49							
	WEL IP	ZNE 09 10 04.7	D	-0.08					5.4
	E*PP	ZNE 12 07							
	E*SP	Z 13 09							
	ES	ZNE 18 03							
	E*SS	E 21 41							
	ESS	E 22 34							
	ESSS	E 26 11							
	EL	ZNE 37							
	KRP EP	ZE 09 10 05		-0.40					6.1
	E*PP	Z 12 07							
	CIZ EP	Z 09 10 48							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 24	11 45 13.9	6.0S 112.3E	600KM	5.3 JAVA SEA					WEL 65
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW EP	Z 11 55 37		-0.79					5.6
	WEL EP	Z 11 55 59							
	KRP EP	Z 11 56 00		-0.67					5.8

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 24	22 59 47.3	20.2S 179.0W	654KM	4.7 FIJI					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 23 03 25							
	MNW EP	Z 23 04 48							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 26	17 00 33.1	5.5N 126.3E	87KM	5.3 PHILIPPINES					WEL 54
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 17 10 52							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 26	22 39 01.5	9.3S 148.6E	14KM	5.3 E NEW GUINEA					WEL 39
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 22 46 17							
	MSZ EP	Z 22 46 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 27	09 24 54.3	58.7S 149.4E	33KM	W OF MACQUARIE IS					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 09 29 05							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 27	10 01 42.0	16.5S 168.1E	11KM	5.5 NEW HEBRIDES					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZE 10 06 42		-0.20					5.3
	GNZ EP	Z 10 06 59		-0.71					5.8
	WEL EP	ZNE 10 07 12		-0.38					5.3
	ES	NE 11 39							
	ELQ	NE 13							
	ELR	Z 14					104	21 79 13	59 16
	MSZ EP	Z 10 07 38							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 28	19 32 25.4	17.1N 122.4E	51KM	5.3 PHILIPPINE IS					WEL 76
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 19 44 09							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 29	01 07 24.0	4.9S 103.2E	92KM	5.3 S SUMATRA					WEL 73
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 01 18 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 29	10 33 38.4	2.4S 138.5E	38KM	5.5 W NEW GUINEA					WEL 51
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 10 42 32							
	MJZ EP	Z 10 42 32							
	MNG EP	Z 10 42 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 29	12 49 15.7	16.4S 168.2E	10KM	4.7 NEW HEBRIDES					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 12 54 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 29	13 12 52.7	16.5S 168.1E	33KM	4.9 NEW HEBRIDES					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 13 17 50		-0.97					5.3
	MNG EP	Z 13 18 13							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 29	17 09 21.9	20.1S 179.0W	610KM	4.6 FIJI					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 17 13 01							
	MNG EP	Z 17 13 21							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 29	19 53 57.8	15.2S 172.9W	33KM	4.7 SAMOA					WEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 19 59 17							
	MNG EP	Z 19 59 36							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 30	02 08 02.4	11.0S 115.5E	33KM	6.0 S OF BALI IS					WEL 60
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	WEL IP	Z 02 18 05.8	U	-0.71					6.5
	ES	ZNE 26 15							
	ESS	E 30 16							
	ESSS	N 32 42							
	ELQ	NE 35							
	ELR	Z 36							
	KRP EP	ZE 02 18 07							
	MNG IP	Z 02 18 08.0	U						
	MJZ IP	ZNE 02 17 49.9	U						
	MNW EP	Z 02 17 41							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 30	23 04 45.8	16.9S 176.9W	33KM	5.1 FIJI					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZE 23 09 39		-1.01					5.3
	MNG EP	Z 23 09 59							
	WEL EP	Z 23 10 07							
	ES	NE 14 20							
	ELQ	NE 16 13							
	ELR	Z 17							
	MJZ EP	Z 23 10 46							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 31	02 15 39.2	14.7S 167.5E	152KM	NEW HEBRIDES					WEL 27
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 02 20 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 31	10 46 17.1	17.1S 167.5E	26KM	NEW HEBRIDES					WEL 25
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 10 51 11		-1.33					5,0
	MNG EP	Z 10 51 34							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAR 31	20 05 18.9	15.4S 167.5E	132KM	5.3 NEW HEBRIDES					WEL 27
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP IP	ZE 20 10 19.8 U		-0.16					6,2
	ES	E 14 38							
	MNG IP	Z 20 10 41.0 U							
	ES	Z 15 02							
	MJZ EP	ZNE 20 11 05							
	EPCP	ZNE 14 12							
	ROX EP	Z 20 11 16							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 01	05 54 19.1	45.8N 151.8E	40KM	5.7 KURILE IS					WEL 59
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 06 06 57							
	MNG EP	Z 06 07 18							
	ROX ES	N 06 18 32							
	MJZ EP	ZNE 06 07 26							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 01	05 57 09.1	46.3N 152.0E	40KM	5.5 KURILE IS					WEL 98
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG E(P)	Z 06 10 06							
	KRP EP	Z 06 09 56							
	MJZ EP	ZNE 06 10 06							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 01	10 41 00.2	4.6S 105.8W	33KM	5.0 EASTER IS CORD					WEL 79
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	WEL ES	Z 11 02 44							
	EL	Z 18							
	KRP EP	ZE 10 53 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 01	12 23 35.5	45.7N 151.8E	40KM	5.9 KURILE IS					WEL 99
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 12 36 13							
	MNG EP	Z 12 36 23							
	WEL ES	Z 12 47 04							
	MJZ EP	ZNE 12 36 35							
	E	ZE 41 51							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 02	00 05 42.7	16.7S 167.0E	33KM	4.5 NEW HEBRIDES					WEL 25
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 00 12 05							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 02	01 53 50.5	20.4S 173.8W	33KM	4.6 TONGA					WEL 23
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 01 58 22							
	MNG EP	Z 01 58 46							
	ES	Z 02 02 39							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 02	17 27 10.6	25.0S 175.5W	33KM	4.9 S OF TONGA					WEL 18
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 17 31 09							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 02	17 40 38.8	6.3S 148.8E	37KM	5.0 NEW BRITAIN					WEL 42
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZE 17 48 10							
	MJZ EP	ZNE 17 48 24							
	MNG EP	Z 17 48 25							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 03	08 04 15.4	6.0S 151.5E	16KM	NEW BRITAIN					WEL 41
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZNE 08 11 38							
	MNG EP	Z 08 11 54							
	WEL EP	Z 08 11 55							
	ES	NE 18 05							
	EL	ZNE 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 03	12 59 40.9	20.2S 173.7W	48KM	5.3 TONGA					WEL 23
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZNE 13 03 10							
	MNG EP	Z 13 03 32							
	MJZ EP	ZNE 13 04 24							
	MNW EP	Z 13 04 48							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 04	00 37 26.1	2.3S 138.7E	11KM	5.6 W NEW GUINEA					WEL 51
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZE 00 46 15							
	MSZ P	Z 00 46 18							
	MJZ EP	ZNE 00 46 24							
	MNG P	Z 00 46 25							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 04	09 06 01.1	33.4N 137.5E	353KM	5.2 NEAR HONSHU JAPAN					WEL 82
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	Z 09 17 30.2		-0.88					6,0
	MNG EP	Z 09 17 40							
	MSZ P	Z 09 17 46							
	MJZ P	ZNE 09 17 47							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 04	18 29 26.2	4.2S 152.9E	54KM	5.0 NEW BRITAIN					WEL 42
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 18 36 19							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 05	02 34 11.1	20.0N 147.1E	50KM	5.9 MARIANA IS					WEL 66
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	ZE 02 44 39		-0.78					6,3
	MNG P	Z 02 44 52							
	MSZ P	Z 02 45 01							
	MJZ EP	ZN 02 45 01							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 05	02 47 55.4	20.0N 147.2E	50KM	5.7 MARIANA IS					WEL 66
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZE 02 58 23							
	MNG EP	Z 02 58 36							
	MSZ P	Z 02 58 45							
	MJZ EP	ZNE 02 58 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 05	06 55 29.1	19.2S 168.6E	48KM	4.6 NEW HEBRIDES					WEL 23
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	MNG EP	Z 07 00 21							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 05	09 57 02.8	17.6S 167.8E	23KM	NEW HEBRIDES					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 10 01 51							
	MNG EP	Z 10 02 16							
APR 05	KRP EP	Z 12 01 04							
	MNG EP	Z 12 01 28							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 05	21 30 53.2	17.6S 178.4W	546KM	4.4 FIJI					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 21 34 59							
	MNG EP	Z 21 35 13							
	MNW EP	Z 21 36 21							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 05	22 29 35.0	53.2S 140.6E	33KM	5.0 W OF MACQUARIE IS					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	MSZ EP	Z 22 34 04							
	MNG EP	Z 22 35 10							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 05	23 33 06.0	31.1S 178.2W	60KM	5.2 KERMADEC IS					WEL 12
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	GNZ EP	Z 23 34 55							
	MNG EP	Z 23 35 29							
	ES	Z 37 27							
	CIZ EP	ZNE 23 36 06							
	ES	ZNE 38 11							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 06	06 17 29.3	34.4N 139.0E	13KM	5.3 NEAR HONSHU JAPAN					WEL 82
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 06 29 39							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 06	12 01 07.5	6.3S 148.8E	43KM	4.9 NEW BRITAIN					WEL 42
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 12 08 37							
	MNG EP	Z 12 08 52							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 06	12 21 57.0	20.1N 147.2E	22KM	5.7 MARIANA IS					WEL 66
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 12 32 28							
	MNG EP	Z 12 32 41							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 06	18 25 24.4	61.0S 24.6W	33KM	5.4 S SANDWICH IS					WEL 77
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 18 38 31							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 06	19 34 37.4	17.7S 167.7E	17KM	4.1 NEW HEBRIDES					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 19 39 26							
	MNG EP	Z 19 39 49							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 08	05 33 17.1	19.9S 178.6W	616KM	5.3 FIJI					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP P	ZE 05 38 58							
	MNG EP	Z 05 39 18							
	ES	Z 42 31							
	MSZ EP	Z 05 39 26							
	WEL EP	ZNE 05 39 28							
	CIZ EP	NE 05 39 50							
	MJZ EP	ZNE 05 39 55							
	MNW EP	Z 05 40 23							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 09	00 05 07.0	4.0S 135.8E	15KM	5.1 W NEW GUINEA					WEL 51
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	MSZ EP	Z 00 14 02							
	KRP EP	Z 00 14 04							
	MNW EP	Z 00 14 06							
	MNG EP	Z 00 14 09							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 09	01 22 04.9	9.7N 126.6E	68KM	5.3 PHILIPPINE IS					WEL 67
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	ZE 01 31 52							
	MNG EP	Z 01 32 12							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 09	06 30 30.1	20.9S 179.3W	650KM	4.7 FIJI					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 06 34 01							
	GNZ EP	Z 06 34 02							
	MNG EP	Z 06 34 21							
	MNW EP	Z 06 35 25							
APR 09	KRP EP	Z 09 03 52							
	MNG EP	Z 09 04 00							
APR 09	KRP E(P)	Z 09 06 23							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 09	17 41 56.4	7.0S 129.7W	143KM	5.3 BANDA SEA					WEL 60
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	MSZ EP	Z 17 50 40							
	MNG EP	Z 17 50 57							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 09	18 50 58.3	7.3S 155.7E	70KM	4.8 SOLOMON IS					WEL 38
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	MNG EP	Z 18 58 12							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 09	21 18 36.5	7.3S 155.7E	44KM	5.6 SOLOMON IS					WEL 38
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	MNG EP	Z 21 25 45							
	MSZ EP	Z 21 25 56							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 09	23 57 24.9	17.7S 173.0W	70KM	4.9 TONGA					WEL 26
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP IP	ZE 24 02 21.4	U	-0.66					5.6
	MNG EP	Z 24 02 43							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 10	04 59 53.9	7.4S 155.7E	37KM	5.5 SOLOMON IS					WEL 38
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AETE MAG
	KRP EP	Z 05 06 47							

	MNG	EP	Z	05 07 01									
	MJZ	EP	ZNE	05 07 26									
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 10	10	02	23.4	10.8S	165.8E	60KM	4.4 SANTA CRUZ IS						DEL 31
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	10	08 12								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 10	15	02	42.2	7.3S	155.8E	29KM	5.6 SOLOMON IS						DEL 38
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	15	09 38								
	MNG	EP	Z	15	09 53								
	MSZ	EP	Z	15	10 06								
	MNW	EP	Z	15	10 15								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 10	16	47	49.7	63.6S	167.3W	33KM	5.4 S PACIFIC CORD						DEL 25
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNW	EP	Z	16	52 50								
	MSZ	EP	Z	16	52 57								
	MNG	EP	Z	16	53 12								
	KRP	P	ZE	16	53 37								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 10	21	49	19.5	7.3S	155.9E	39KM	5.3 SOLOMON IS						DEL 38
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	GNZ	EP	Z	21	56 28								
	MNG	EP	Z	21	56 30								
	MSZ	EP	Z	21	56 42								
	MJZ	EP	Z	21	56 43								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 10	23	13	07.7	3.4S	143.2E	33KM	5.5 NEAR N NEW GUINEA						DEL 47
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	P	Z	23	21 38								
	GNZ	P	Z	23	21 39								
	MJZ	EP	Z	23	21 40								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 11	05	09	12.1	3.3S	119.2E	21KM	5.2 CELEBES						DEL 62
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	EP	Z	05	19 14								
	MNG	EP	Z	05	19 36								
	TUA	EP	Z	05	19 40								
APR 11	GNZ	E(P)	Z	20	00 02								
	MNG	EP	Z	20	00 44								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	04	31	45.3	19.2S	168.9E	200KM	4.7 NEW HEBRIDES						DEL 23
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	IP	ZNE	04	35 59.0	D	-1.72						4.7
	ECZ	P	Z	04	36 07								
	GNZ	P	Z	04	36 12								
	CNZ	P	Z	04	36 12								
	TUA	EP	Z	04	36 14								
	MNG	P	Z	04	36 24								
	WEL	P	ZNE	04	36 29								
	MJZ	P	ZNE	04	36 51								
	MSZ	P	Z	04	36 51								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	04	51	40.2	5.3N	96.5E	55KM	6.1 N SUMATRA						DEL 85
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	P	Z	05	03 50								
	MJZ	P	ZNE	05	03 58								

	MNG	P	Z	05	04 10								
	KRP	P	ZNE	05	04 11								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	13	46	05.0	7.5S	155.8E	49KM	5.1 SOLOMON IS						DEL 38
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	13	53 01								
	MNG	EP	Z	13	53 14								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	13	54	57.2	7.3S	155.6E	52KM	5.2 SOLOMON IS						DEL 38
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	ZNE	14	01 49								
	MNG	EP	Z	14	02 06								
	MJZ	EP	Z	14	02 16								
	MSZ	EP	Z	14	02 18								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	14	51	49.4	7.4S	155.7E	21KM	5.3 SOLOMON IS						DEL 38
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	14	59 00								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	18	05	59.2	8.3S	127.0E	13KM	4.4 TIMOR						DEL 53
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MJZ	EP	Z	18	16 10								
	KRP	EP	Z	18	16 16								
	MNG	EP	Z	18	16 21								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	19	33	47.3	5.2N	96.7E	56KM	5.2 N SUMATRA						DEL 84
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	EP	Z	19	45 54								
	MNG	EP	Z	19	46 17								
	KRP	EP	Z	19	46 17								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	22	50	43.9	7.1S	155.6E	72KM	4.8 SOLOMON IS						DEL 38
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	E(P)	Z	22	57 58								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 12	23	22	20.4	7.5S	155.6E	78KM	5.1 SOLOMON IS						DEL 38
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	23	29 26								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 13	04	14	33.6	18.7S	168.8E	123KM	5.2 NEW HEBRIDES						DEL 23
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	P	ZNE	04	18 59		-0.55						5.7
	TUA	EP	Z	04	19 13								
	MNG	P	Z	04	19 24								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 13	08	25	43.8	5.5N	96.6E	68KM	5.2 N SUMATRA						DEL 85
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	EP	Z	08	37 51								
	MNG	EP	Z	08	38 14								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
APR 13	17	13	43.5	18.0S	178.6W	610KM	5.0 FIJI						DEL 24
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	ZN	17	17 42								
	MNG	EP	Z	17	18 01								

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 13	19 53 42.4	24.3N 128.7E	38KM	6.0 RYUKYU IS				MEL 78
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP E(P)	Z 20 05 41							
E	Z 55							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 14	09 39 14.3	17.1S 167.7E	28KM	4.7 NEW HEBRIDES				MEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	ZNE 09 44 08							
MNG EP	Z 09 44 31							
MSZ EP	Z 09 44 43							
MNW EP	Z 09 45 10							
APR 14 MNG E(P)	Z 14 47 15							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 14	14 41 17.6	7.4S 155.5E	77KM	5.1 SOLOMON IS				MEL 38
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
MSZ EP	Z 14 48 44							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 14	23 00 19.2	15.3S 173.3W	27KM	4.7 TONGA				MEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 23 05 40							
MNG EP	Z 23 05 58							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	09 00 40.3	29.1S 179.7W	349KM	4.4 KERMADEC IS				MEL 13
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
GNZ P	Z 09 02 58							
KRP P	ZNE 09 03 02			0.01				
S	ZN 04 54							
TUA P	Z 09 03 04							
MNG P	Z 09 03 24							
S	Z 09 05 33							
MNW EP	Z 09 04 42							
APR 15 KRP EP	ZNE 10 41 17							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	12 11 00.6	33.2S 178.6W	18KM	S OF KERMADEC IS				MEL 18
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
GNZ EP	Z 12 12 29							
KRP EP	Z 12 12 40							
MNG EP	Z 12 13 03							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	14 49 05.1	20.7S 177.9W	454KM	4.0 FIJI				MEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 14 52 51							
MNG EP	Z 14 53 10							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	15 39 31.8	16.7S 167.7E	18KM	4.4 NEW HEBRIDES				MEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 15 44 31							
MNG EP	Z 15 44 55							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	15 45 01.4	16.4S 168.3E	33KM	NEW HEBRIDES				MEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 15 49 51							
MNG EP	Z 15 50 29							

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	15 55 07.4	16.7S 167.6E	10KM	4.7 NEW HEBRIDES				MEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP P	ZNE 16 01 07							
MNG P	Z 16 01 30							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 15	16 08 53.0	16.7S 167.6E	28KM	NEW HEBRIDES				MEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
MNG EP	Z 16 14 14							
APR 16 KRP E(P)	Z 02 05 22							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 16	07 18 11.8	19.4S 175.9E	38KM	5.3 S OF FIJI				MEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 07 22 29							
MNG EP	Z 07 22 56							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 16	16 32 17.3	4.2N 123.2E	590KM	5.2 CELEBES SEA				MEL 65
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 16 41 58							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 16	17 27 02.1	18.7S 168.6E	88KM	NEW HEBRIDES				MEL 23
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
MNG E(P)	Z 17 31 30							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 16	17 31 08.6	16.8S 167.6E	33KM	4.7 NEW HEBRIDES				MEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 17 36 04							
MNG EP	Z 17 36 29							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 17	11 19 19.3	12.5S 166.3E	45KM	4.9 SANTA CRUZ IS				MEL 30
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 11 23 56							
MNG EP	Z 11 24 16							
ROX EP	Z 11 24 51			-0.71				6.1
MNW EP	Z 11 24 52							
APR 17 KRP E(P)	Z 12 36 35							
GNZ ES	Z 12 39 34							
MNG EP	Z 12 36 59							
ES	Z 40 30							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 17	17 45 52.2	20.6S 178.2W	570KM	4.5 FIJI				MEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
KRP EP	Z 17 49 29							
GNZ EP	Z 17 49 29							
MNG EP	Z 17 49 50							
ES	Z 53 10							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 19	17 14 24.1	20.6S 178.0W	449KM	4.9 FIJI				MEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
MNG E(P)	Z 17 18 29							
	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
APR 20	00 01 24.9	5.5S 129.7E	163KM	5.7 BANDA SEA				MEL 54
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
MNW P	Z 00 10 17							
MJZ P	ZNE 00 10 22							

	KRP	P	ZE	00 10 24		-1.01							5,9
	MNG	P	Z	00 10 31									
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 20	05	18	17.9	16.7S	167.6E	33KM		NEW HEBRIDES				AZEL 25	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	E(P)	Z	05	22 57								
	MNG	EP	Z	05	23 07								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 21	08	14	25.0	5.4S	126.9E	33KM		BANDA SEA				AZEL 56	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	MSZ	EP	Z	08	23 41								
	MJZ	EP	ZNE	08	23 49								
	WEL	EP	Z	08	24 01								
		EL	ZNE		38								
	TUA	EP	Z	08	24 03								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 22	08	37	25.5	5.6S	126.8E	33KM	5.2	BANDA SEA				AZEL 56	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	MNW	EP	Z	08	46 45								
	MJZ	EP	ZNE	08	46 49								
	KRP	EP	ZNE	08	46 55								
	MNG	EP	Z	08	46 59								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 22	11	54	24.9	5.5S	126.5E	33KM	5.1	BANDA SEA				AZEL 56	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	Z	12	03 57								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 22	13	07	38.1	5.1N	96.4E	42KM	5.4	N SUMATRA				AZEL 85	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	ZNE	13	18 57								
	MNW	EP	Z	13	19 54								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 22	19	41	57.8	7.0S	129.5E	82KM	5.5	BANDA SEA				AZEL 93	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	MNW	EP	Z	19	50 50								
	KRP	P	ZE	19	50 58,5		-0.92						5,2
	MNG	EP	Z	19	51 05								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 22	22	02	02.4	18.6S	177.8W	460KM	4.2	FIJI				AZEL 33	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	P	Z	22	06 05		-1.21						5,2
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 23	12	50	24.9	8.6N	126.5E	43KM	5.3	PHILIPPINE IS				AZEL 57	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	MSZ	EP	Z	13	01 09								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 23	15	01	06.8	1.6N	80.2E	33KM	5.1	N INDIAN OCEAN				AZEL 94	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	E(P)	Z	15	14 29								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 23	17	52	51.0	13.5N	146.1E	56KM	5.6	S OF MARIANA IS				AZEL 61	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	ZNE	18	02 40		-1.09						5,1
APR 24	KRP	E	Z	08	07 52								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 24	11	02	37.8	15.2S	167.9E	208KM		NEW HEBRIDES				AZEL 27	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	Z	11	08 32								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 24	16	33	13.6	56.3S	26.9W	118KM	5.1	S SANDWICH IS				AZEL 91	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	ZNE	16	45 32								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 24	18	52	21.3	6.1S	148.5E	63KM	5.1	NEW BRITAIN				AZEL 42	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	Z	18	59 51								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 25	12	28	26.3	15.9S	167.6E	46KM	4.6	NEW HEBRIDES				AZEL 26	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	Z	12	33 31								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 25	15	24	25.9	29.1S	178.2W	210KM	4.5	KERMADEC IS				AZEL 13	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	Z	15	26 53								
	MNG	EP	Z	15	27 16								
	WEL	ES	ZNE	15	29 49								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 26	06	35	24.7	15.6S	173.8W	140KM	4.4	TONGA				AZEL 27	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	GNZ	EP	Z	06	40 28								
	KRP	P	ZNE	06	40 29								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 26	21	46	41.2	16.5S	175.6E	116KM	4.8	FIJI				AZEL 25	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	ZNE	21	51 23								
	MNG	EP	Z	21	51 49								
	MSZ	EP	Z	21	52 30								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 27	08	09	47.9	1.8S	138.7E	33KM	5.3	NEAR N NEW GUINEA				AZEL 51	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	P	Z	08	18 36		-1.15						5,8
	MSZ	EP	Z	08	18 43								
	MNG	EP	Z	08	18 46								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 28	17	51	08.3	15.0S	167.4E	125KM	4.5	NEW HEBRIDES				AZEL 27	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	ZE	17	56 14		-1.10						5,3
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 29	03	55	20.8	51.4N	178.3W	50KM	6.0	ALEUTIAN IS				AZEL 93	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	EP	ZE	04	08 11		-0.88						6,5
	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
APR 29	11	05	20.9	17.5S	168.7E	88KM		NEW HEBRIDES				AZEL 24	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TN	AZ TE	MAG
	KRP	P	ZE	11	10 03								
	MNG	P	Z	11	10 24								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 29	12 31 09.4	15.5S 173.8W	59KM	4.6 TONGA					WEL 27
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP EP	ZNE 12 36 24							
	MNG EP	Z 12 36 46							
APR 30	MNG EP	Z 07 32 01							
	ES	Z 34 29							
	WEL ES	Z 07 34 46							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 30	16 59 00.6	1.9S 138.7E	33KM	5.5 NEAR W NEW GUINEA					WEL 51
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP P	ZE 17 07 49.3 U		-0.95					5.0
	MNG P	Z 17 07 59							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 30	20 20 35.1	21.5S 170.7E	132KM	LOYALTY IS					WEL 20
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	GNZ EP	Z 20 24 43							
	MNG P	Z 20 24 56							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
APR 30	23 05 16.1	6.2S 154.2E	72KM	4.7 SOLOMON IS					WEL 39
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	MNG EP	Z 23 13 41							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 01	04 00 30.3	1.8S 138.8E	33KM	5.4 NEAR NW NEW GUINEA					WEL 51
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	MNG EP	Z 04 09 31.5							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 01	07 09 00.5	39.7N 21.3E	15KM	5.6 GREECE					WEL 150
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	MNG EPKP	Z 07 29 35							
	KRP PKP	ZE 07 29 40							
	CNZ EPKP	Z 07 29 41							
	ESKS	Z 36 50.5							
	ECZ EPKP?	Z 07 29 49							
	WEL PKP	Z 07 29 43.8							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 02	17 10 04.7	5.5S 147.2E	148KM	5.4 E NEW GUINEA					WEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP P	ZNE 17 17 36.6		-0.79					5.9
	MNG P	Z 17 17 50.4							
	MNW P	Z 17 17 57.7							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 03	10 25 49.2	8.7S 159.4E	103KM	4.7 SOLOMON IS					WEL 35
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	MNG EP	Z 10 32 30							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 04	08 17 32.1	55.7S 27.9W	33KM	5.8 S SANDWICH IS					WEL 91
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	MNW P	Z 08 29 28.3							
	MSZ P	Z 08 29 34.5							
	WEL EP	Z 08 29 49							
	ELQ	NE 53 25							
	ELR	ZNE 56 15							
	MNG P	Z 08 29 49.5							
	E	Z 30 19							
	CNZ P	Z 08 29 57							
	KRP P	ZNE 08 30 02.6		-1.05					5.2

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 04	09 13 51.0	18.0S 168.4E	74KM	4.2 NEW HEBRIDES					WEL 24
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP EP	ZN 09 23 31							
	MNG P	Z 09 23 55.3							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 04	10 13 58.0	19.7S 176.2W	33KM	4.9 FIJI					WEL 23
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP EP	ZNE 10 23 25		-1.15					5.0
	ES	ZE 27 32							
	MNG P	Z 10 23 49.5							
	WEL EP?	Z 10 24 05							
	E(PS)	N 27 41							
	ES	E 28 12							
	EL	ZNE 29 22			8	25		7	18
	MSZ EP	Z 10 24 53							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 04	13 32 42.3	6.0S 146.7E	39KM	5.1 E NEW GUINEA					WEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP EP	Z 13 40 34							
	MNG IP	Z 13 40 40.1 U							
	•PP	Z 49.5							
	MSZ EP	Z 13 40 41							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 04	15 50 37.2	14.8S 167.1E	51KM	NEW HEBRIDES					WEL 27
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP EP	Z 15 55 51.5							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 04	16 22 00.9	6.0S 146.7E	49KM	5.2 E NEW GUINEA					WEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP IP	ZE 16 29 44.9 U							
	ES	E 36 32							
	MSZ EP	Z 16 29 56							
	MNG IP	Z 16 29 58.8 U							
	•PP	Z 30 08.5							
	GNZ P	Z 16 30 00.6							
	WEL EP	ZNE 16 30 10							
	EL	ZNE 47							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 04	16 43 58.6	6.1S 146.7E	63KM	4.9 E NEW GUINEA					WEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	KRP EP?	Z 16 56 41							
	MNG EP	Z 16 56 54							
	MSZ EP	Z 16 56 54							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 05	12 32 15.3	49.4S 125.7E	33KM	4.9 S OF AUSTRALIA					WEL 35
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TV	AE TE MAG
	MNW EP	Z 12 39 06							
	MNG EP?	Z 12 39 08							
	E	Z 10							
	ES	Z 46 03							
	WEL ES	E 12 45 19							
	EL	ZNE 46 45							
	KRP EP	ZE 12 39 30							
	GNZ P	Z 12 39 36.7							
	ES	Z 45 21							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 05	14	02	37.2	5.9S 146.5E	18KM	5.0 E NEW GUINEA					WEL 43
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	Z	14 10 25.8	U						
	GNZ	EP	Z	14 10 37							
	MNG	IP	Z	14 10 39.2	U						
		•P?	Z	46.8							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 05	15	00	07.7	10.5S 161.3E	41KM	5.4 SOLOMON IS					WEL 33
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE	EP	E	15 05 59							
	KRP	EP	ZNE	15 06 16							
	GNZ	P	Z	15 06 25.0		-0.39					5.4
		•P?	Z	37.5							
	MNG	IP	Z	15 06 34.6	U						
	WEL	EP	ZNE	15 06 39							
		ES	NE	11 55							
		ELQ	E	14							
		ELR	ZNE	15			13	24	8	23	
	MSZ	P	Z	15 07 03.0							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 05	17	03	30.3	14.0S 167.0E	58KM	4.9 NEW HEBRIDES					WEL 28
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	17 08 53							
	MNW	EP	Z	17 09 56							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 05	15	17	22.5	11.4S 166.3E	78KM	4.4 SANTA CRUZ IS					WEL 31
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	P	Z	17 23 24.5							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 05	17	29	54.4	14.1S 166.8E	48KM	4.7 NEW HEBRIDES					WEL 28
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	17 35 18							
	MNG	EP?	Z	17 35 33							
		E	Z	38							
	MNW	EP?	Z	17 36 22							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 05	17	38	05.3	8.0S 107.2E	33KM	5.3 JAVA					WEL 68
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP	Z	17 49 03							
	KRP	EP	ZNE	17 49 05							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 06	08	31	15.8	55.6S 26.3W	33KM	5.1 S SANDWICH IS					WEL 92
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	Z	08 44 54							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 06	18	29	35.5	29.4S 179.3W	285KM	4.0 KERMADEC IS					WEL 13
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	ECZ	EP	Z	18 31 40.3							
		E	Z	33 11							
		ES	Z	18							
	ONE	EP	E	18 31 43							
	GNZ	EP	Z	18 31 49							
		E	Z	33 28							
		ES	Z	37							
	KRP	IP	ZE	18 31 57.0	U						
		ES	ZNE	33 42							
	GNZ	EP	Z	18 32 06							
		S	Z	34 07							

	MNG	EP?	Z	18 32 17							
		E	Z	19							
		ES	Z	34 23							
	WEL	EP	ZNE	18 32 28							
		ES	ZNE	34 43							
	CIZ	ES	NE	18 35 43							
	GPZ	ES	N	18 35 45							
	MJZ	ES	NE	18 36 10							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 07	05	38	31.2	18.7S 168.6E	105KM	NEW HEBRIDES					WEL 23
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP	Z	05 43 20							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 07	10	15	56.2	4.1S 152.8E	47KM	5.0 NEW BRITAIN					WEL 42
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	ZNE	10 24 25							
		E•P?	Z	32.5							
		EPC?	Z	26 32							
	GNZ	EP	Z	10 24 39							
	MNG	EP	Z	10 24 41							
		EPC?	Z	26 38							
	WEL	EP	ZNE	10 24 51							
	MJZ	EP	ZNE	10 24 50							
		EPC?	Z	26 42							
		E	Z	50.5							
	MNW	EP	Z	10 24 56							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 08	23	23	22.6	10.4S 108.1E	33KM	5.0 SOUTH OF JAVA					WEL 66
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP	Z	23 34 04							
		E	Z	09							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 09	21	30	08.3	5.2N 127.5E	119KM	5.5 PHILIPPINE IS					WEL 63
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	ZE	21 40 17.1							
	MNW	P	Z	21 40 17.6							
	MJZ	IP	ZNE	21 40 19.9	U						
		PCP	Z	54							
	WEL	EP	Z	21 40 14							
		EL	Z	59							
	ECZ	EP	Z	21 40 24.5							
	MNG	EP	Z	21 40 27							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 10	12	48	28.9	18.1S 175.8W	199KM	4.0 TONGA					WEL 24
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	12 52 55							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 10	15	23	30.9	49.1S 121.6E	33KM	3.8 SOUTH OF AUSTRALIA					WEL 38
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MJZ	P	ZN	15 15 12							
	MSZ	EP	Z	15 14 57							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 10	17	40	06.7	23.7N 121.5E	44KM	5.1 TAIWAN					WEL 81
				H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP?	Z	17 52 52							
	WEL	EP	Z	17 52 19							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 11	10 43 06.7	19.6S 175.7W	183KM	4.3 TONGA					WEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP EP	Z 10 47 14							
	MNG EP	Z 10 47 47							
	ES	Z 51 32							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 11	14 50 58.8	39.4N 73.8E	21KM	5.6 SINKIANG BORDER					WEL 122
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP EPKP	Z 15 09 53							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 11	15 05 16.8	20.3S 68.5W	67KM	6.1 CHILE-BOLIVIA					WEL 95
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	WEL E(S)	Z 15 31 29							
	ESS	Z 37 15							
	EL	Z 45 30							
	EL	Z 48 44							
	KRP P	Z 15 18 40.5							
	MJZ P	Z 15 18 40							
	MSZ P	Z 15 18 53.8							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 12	01 59 31.6	13.9S 170.0E	620KM	4.1 NEW HEBRIDES					WEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP P	ZE 02 04 05.4 U							
	MNG IP	Z 02 04 16.1 U							
	MJZ P	ZNE 02 04 53							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 12	04 19 53.7	18.3S 168.9E	31KM	4.2 NEW HEBRIDES					WEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP P	ZNE 04 24 30.9							
	MNG P	Z 04 24 56							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 12	06 13 59.7	17.8S 174.0W	115KM	4.8 TONGA					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	ONE EP	E 06 18 35							
	GNZ EP	Z 06 18 46		-0.59					5.7
	KRP IP	ZNE 06 18 46.8 U							
	E	Z 48.5							
	MNG EP	Z 06 19 06							
	ES	Z 23 30.5							
	MJZ EP	ZNE 06 19 57							
	MSZ EP	Z 06 20 03							
MAY 12	KRP EP	Z 15 33 57							
	MJZ P	ZNE 15 35 10.5							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 12	19 04 00.8	62.7S 167.7E	33KM	5.4 BALLENY IS					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	MNW EP	Z 19 07 57							
	MJZ EP	ZNE 19 08 22							
	MNG EP	Z 19 08 59.5							
	WEL ES	E 19 13 05							
	EL	ZNE 14 15							
	KRP P	ZNE 19 09 26.0							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 13	06 57 58.1	4.5N 126.8E	79KM	5.2 TALAUD IS					WEL 63
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	MJZ EP	ZE 07 08 09							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 14	05 02 17.1	22.3S 170.5E	10KM	LOYALTY IS					WEL 19
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP EP	Z 05 06 30.5							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 14	12 24 08.9	10.5S 161.4E	37KM	3.4 SOLOMON IS					WEL 33
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP IP	Z 12 30 17.4 U							
	ECZ EP	Z 12 30 28							
	MNG IP	Z 12 30 36.0 U							
	WEL EP	Z 12 30 43							
	EL	Z 40 05							
	MJZ IP	ZNE 12 30 53.9 D							
	MNW EP	Z 12 31 04							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 14	02 27 36.0	32.5N 141.4E	40KM	5.4 S OF HONSHU JAPAN					WEL 80
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP EP	Z 02 39 39.5							
	MNG EP	Z 02 39 49.5							
	MSZ EP	Z 02 40 00							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 15	02 29 16.8	20.1S 177.6W	564KM	4.9 FIJI					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP IP	ZE 02 32 01.0 U		-1.16					5.3
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 16	06 19 24.4	5.7S 146.4E	53KM	5.4 E NEW GUINEA					WEL 44
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	CNZ IP	Z 06 26 07.2 U							
	ES	Z 32 33							
	KRP P	Z 06 26 08.5							
	MNG EP	Z 06 26 23							
	PP	Z 36.9							
	MSZ EP	Z 06 26 22							
	MJZ P	ZNE 06 26 25.5							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 16	16 14 22.9	15.2S 173.5W	33KM	5.2 TONGA					WEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	ONE EP	E 16 19 33							
	KRP P	ZNE 16 19 43.5							
	MJZ EP	ZNE 16 20 44.5							
	MSZ EP	Z 16 20 58.5							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 16	19 24 58.6	32.4N 141.3E	36KM	5.3 S OF HONSHU JAPAN					WEL 80
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	KRP EP	Z 19 38 51.5							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 16	23 08 16.3	21.0S 178.8W	551KM	3.9 FIJI					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	CNZ EP	Z 23 12 01							
	MNG EP	Z 23 12 12							
	MSZ EP	Z 23 13 06							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
MAY 16	23 11 07.6	25.9S 177.6W	154KM	SOUTH OF FIJI					WEL 17
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AB TE MAG
	CNZ EP	Z 23 14 30							
	ES	Z 17 04							
	MNG EP	Z 23 14 41							
	ES	Z 17 25							

	MJZ	EP	ZNE	23	15	41.5							
		ES	ZNE		19	13							
	MSZ	EP	Z	23	15	53							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 17	08	22	20.3	15.1S	168.1E		36KM	5.1 NEW HEBRIDES					WEL 27
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	KRP	EP	Z	08	27	32		-1.21					5.2
	CNZ	EP	Z	08	27	43							
	MNG	EP	Z	08	27	53							
	MJZ	EP	Z	08	28	42							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 17	12	56	55.4	9.7S	159.8E		32KM	5.1 SOLOMON IS					WEL 34
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MNG	EP	Z	13	03	33							
	MSZ	EP	Z	13	03	49							
	MJZ	EP	Z	13	03	50							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 17	16	13	37.6	16.6S	175.5E		80KM	4.8 FIJI					WEL 25
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	KRP	P	ZNE	16	18	18		-0.98					5.3
	MNG	IP	Z	16	18	44.6	D						
	MJZ	P	ZNE	16	19	18.5							
	MSZ	IP	Z	16	19	29.0	D						
MAY 18	MNG	P	Z	11	35	13							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 18	23	20	39.0	10.0N	126.1E		32KM	5.8 PHILIPPINE IS					WEL 55
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MSZ	EP	Z	23	31	26							
	MJZ	EP	Z	23	31	33.7							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 18	23	39	15.2	31.1N	130.7E		43KM	5.6 KYUSHU JAPAN					WEL 83
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MNG	EP	Z	23	51	37							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 19	03	55	49.9	8.6N	125.9E		66KM	5.5 PHILIPPINE IS					WEL 67
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MJZ	EP	Z	04	07	10							
MAY 19	MNG	EP	Z	07	44	49							
		E	Z			55							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 19	07	52	03.1	13.2N	89.5W		83KM	5.0 EL SALVADOR					WEL 103
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MJZ	EP	Z	08	05	47							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 19	11	15	10.2	12.2N	144.2E		33KM	5.0 S OF MARIANA IS					WEL 60
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	KRP	EP	Z	11	25	06							
	MNG	P	Z	11	25	18.8	D						
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 19	12	02	19.9	30.3S	177.9W		25KM	4.7 KERMADEC IS					WEL 12
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	ONE	EP	E	12	04	29							
	ECZ	EP	Z	12	04	16							
		E	Z		05	43.5							
	KRP	EP	ZNE	12	04	37							
		*PP	ZNE			44.2							

		ES	ZNE		06	34							
	MNG	EP	Z	12	05	04							
		IS	Z		07	03.8							
	WEL	E	E	12	05	42							
		S	ZNE		07	22.8							
		EL	Z		08	53							
	MJZ	EP	ZNE	12	06	11							
		E	ZNE			28.5							
		ES	ZNE		08	54.5							
	MSZ	EP	Z	12	06	29.5							
		ES	Z		09	35							
MAY 19	KRP	P	ZNE	12	55	46.5							
	MNG	EP	Z	12	56	09							
		ES	Z	13	00	23							
	MJZ	EP	ZNE	12	57	03							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 20	02	51	09.4	19.8N	146.0E		42KM	5.5 MARIANA IS					WEL 66
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	KRP	IP	ZNE	03	01	40.2		-0.78					6.4
	MNG	IP	Z	03	01	53.1	U						
	WEL	P	ZNE	03	01	55.2	U	-0.55					6.6
		EL	Z		25	20							
	MJZ	P	ZNE	03	02	01.0							
	MSZ	IP	Z	03	02	01.2	U						
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 20	05	39	14.4	59.4S	148.2E		33KM	W OF MACQUARIE IS					WEL 25
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MJZ	EP	ZNE	05	43	46							
	WEL	ELQ	E	05	49	13							
		ELR	ZNE		50								
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 20	13	02	09.3	59.2S	65.7W		33KM	5.5 DRAKE PASSAGE					WEL 68
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MJZ	EP	Z	13	13	05.5							
	MSZ	EP	Z	13	13	06							
	MNG	EP	Z	13	13	12							
	KRP	EP	ZNE	13	13	24.5							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 21	03	55	27.2	22.9S	173.6E		33KM	4.3 LOYALTY IS					WEL 18
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MNG	EP	Z	03	59	35							
	CNZ	IP	Z	03	59	20.0	D						
	KRP	EP	Z	03	59	03							
		*PP	ZNE			13.6							
	ECZ	EP	Z	03	59	12							
	MJZ	IP	ZNE	04	00	14.9							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 21	12	17	21.2	5.7S	146.5E		58KM	5.1 E NEW GUINEA					WEL 44
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	KRP	P	Z	12	25	06							
	MNG	P	Z	12	25	24.5							
	MJZ	EP	ZNE	12	25	22.5							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 21	18	45	11.7	1.0S	101.5E		173KM	6.3 SOUTHERN SUMATRA					WEL 77
				H	M	S	DIR	LOG.A/T	AZ	TZ	AN	TYP	AEI TE MAG
	MNH	IP	Z	18	56	23.0	U						
		EPP	Z		59	09							
	ROX	EP	Z	18	56	29.5							
		S	NE	19	05	45					15	15	5.7
		EPS	N		06	21							

		ELQ	N		11									
	MJZ	IP	ZNE	18	56	31.9	U							
		EPP	ZNE		59	16								
		ES	ZNE	19	05	48								
	ONE	EP	E	18	56	42								
	WEL	IP	ZNE	18	56	45.5	UE							
		E	ZE		57	39								
		S	ZNE	19	06	10						16	17	15 13 6,8
		EPS	NE		07	28								
		ESS	N		10	38								
		ESSS	ZNE		12	12								
		ELQ	NE		16									
		ELR	ZNE		18							14	23	19 27 9 22
	KRP	IP	ZNE	18	56	47.3	U	-0.24						6,5
		PP	ZNE		59	42								
		ES	ZNE	19	06	19.5								
	MNG	IP	Z	18	56	47.5	U							
		PP	Z		59	43								
		E	Z	19	05	57								
		ES	Z		06	21								
	ECZ	EP	Z	18	57	01								
		ES	Z	19	06	35								
6,6	CIZ	P	ZNE	18	57	23.5								

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 22	03	19	22.5	15.0S	167.2E		102KM	4.7	NEW HEBRIDES				WEL 27
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	IP		ZNE	03	24 31.6	U	-0.52					5,8
	CNZ	P		Z	03	24 41							
	MNG	IP		Z	03	24 51.0	U						
		ES		Z		29 18							
	MJZ	P		ZNE	03	25 15.0							
		ES		ZNE		29 56							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 22	12	03	48.1	20.7S	178.9W		607KM	4.3	FIJI				WEL 21
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		Z	12	12 19.5							
	MNG	EP		Z	12	12 39							
		E(S)		Z		15 57							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 22	18	37	47.8	16.1S	167.5E		33KM		NEW HEBRIDES				WEL 26
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP		Z	18	41 18.5							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 23	08	34	35.8	3.1S	101.5E		59KM	5.3	SOUTHERN SUMATRA				WEL 75
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	CNZ	EP		Z	08	46 17							
	MNG	P		Z	08	46 18.5							
	KRP	EP		Z	08	46 22							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 23	09	47	48.0	11.7S	166.2E		83KM	4.3	SANTA CRUZ IS				WEL 30
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	P		Z	09	54 47.0							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 23	15	25	26.3	28.0S	176.7W		91KM	4.5	KERMADEC IS				WEL 15
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P		ZE	15	28 07.2							
	MNG	EP		Z	15	28 31							
		ES		Z		31 03							
	MJZ	P		ZNE	15	29 44.5							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 23	19	17	47.5	56.2S	27.3W		130KM	5.9	SOUTH SANDWICH IS				WEL 81
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ	P		Z	19	29 36.0							
	MJZ	EP		ZNE	19	29 39.5							
	WEL	EP		Z	19	29 49							
	MNG	EP		Z	19	29 51							
	GNZ	EP		Z	19	30 00							
	KRP	P		ZE	19	30 04.5							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 24	04	37	01.5	12.8S	167.0E		162KM		SANTA CRUZ IS				WEL 29
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP		Z	04	42 44.5							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 24	11	55	38.9	16.0S	172.6W		33KM	4.2	SAMOA				WEL 27
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P		ZNE	12	00 55.5							
	MNG	EP		Z	12	01 11							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 24	18	24	37.6	19.5S	169.0E		96KM		NEW HEBRIDES				WEL 22
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP		Z	18	29 30							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 26	02	48	53.8	24.7S	179.5W		555KM	4.2	S OF FIJI				WEL 17
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		ZNE	02	51 42							
	MNG	EP		Z	02	52 04							
		E		Z		54 54							
		ES		Z		55 01							
	WEL	EP		Z	02	52 26							
		ES		ZNE		55 16							
	MJZ	EP?		Z	02	52 53							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 26	21	17	23.8	6.1S	130.3E		137KM	5.3	BANDA SEA				WEL 53
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ	EP		Z	21	26 15							
	MJZ	EP		ZNE	21	26 18							
		E•PP		Z		53							
	KRP	P		ZNE	21	26 20.5		-1.09					5,9
	MNG	IP		Z	21	26 27.9	D						
	ECZ	EP		Z	21	26 31							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 27	17	22	58.7	51.9N	176.1E		34KM	5.8	ALEUTIAN IS				WEL 93
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P		ZNE	17	35 53.0		-0.19					7,2
	MNG	P		Z	17	36 09.8							
	WEL	EP?		Z	17	36 05							
		ESKS		ZNE		46 35						3	9
		EPS		ZN		48 23							
		ESP		Z		49 08							
		ESSS		ZNE		57 00							
		ELQ		NE	18	01							
		ELR		ZNE		05 52						11	22 7 21 6 21
	MJZ	EP		ZNE	17	36 22							

	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
MAY 28	06	29	45.6	23.9S	179.7W		441KM	4.4	S OF FIJI				WEL 18
					H	M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		ZNE	06	32 57							
		S		ZNE		35 39.0							

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         MNG    P      Z   06 33 20.9
                ES     Z      36 13
         WEL    P      ZNE 06 33 29.9      -0.60                            5,8
                S      ZNE    36 31
         MNW    EP     Z   06 34 27

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 28   07 02 12.7    11.0S 167.1E 126KM     SANTA CRUZ                 WEL  31
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         MNG    EP     Z   07 08 00

MAY 28   KRP    EP     ZNE 07 11 59        -1.29

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 28   14 03 02.3    17.3S 167.9E  27KM     NEW HEBRIDES               WEL  25
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    IP     ZNE 14 07 04.2 D    -1.21                                5,1
         MNG    P      Z   14 07 28.8

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 28   15 09 41.9    52.7S  10.4E  33KM  5.3 SW OF AFRICA              WEL  35
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         MNG    EPKP   Z   15 30 00

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 28   17 58 12.3    20.6S 169.0E  33KM     NEW HEBRIDES               WEL  21
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         MNG    EP     Z   18 02 23.5

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 29   04 45 43.9    11.9N 143.3E  33KM  5.6 S OF MARIANA IS           WEL  60
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    EP     ZNE 04 55 37.5
         MNG    P      Z   04 55 49.5
         MSZ    EP     Z   04 55 53
         MJZ    EP     ZNE 04 55 56.5
         MNW    EP     Z   04 56 00

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 29   04 55 56.2    14.9S 167.4E 122KM  4.6 NEW HEBRIDES              WEL  27
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    EP     ZNE 05 01 03         -0.91                               5,5
         MNG    P      Z   05 01 23.2
         MSZ    EP     Z   05 01 52.5

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 29   07 32 59.7     5.9S 146.0E  20KM  5.1 E NEW GUINEA              WEL  44
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    EP     Z   07 40 52
         MNG    EP     Z   07 41 04

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 29   11 09 53.9    19.2S 176.3W 236KM  5.1 FIJI                      WEL  23
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    P      ZNE 11 14 02.5
         MNG    EP     Z   11 14 26
         WEL    EP     Z   11 14 37.8
         MJZ    EP     ZNE 11 15 10
         MSZ    EP     Z   11 15 23
         MNW    EP     Z   11 15 34

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 29   21 01 44.3    43.3N 145.7E  88KM  5.3 JAPAN                     WEL  98
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    EP     ZN  21 14 14.5
         MNG    P      Z   21 14 26.5
         WEL    P      Z   21 14 28.5
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         MJZ    EP     ZNE 21 14 37
         MSZ    P      Z   21 14 37.5

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 29   21 55 14.0    15.8S 172.5W  33KM  4.6 SAMOA                     WEL  28
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    P      ZNE 22 00 28.0
         MNG    EP     Z   22 00 59.5

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 30   07 06 20.0    19.4S 175.8W 185KM  4.2 TONGA                     WEL  23
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    P      ZNE 07 10 41
                ES     NE     14 18
         MNG    P      Z   07 11 02
                E      Z      14 50
                ES     Z         57
         MJZ    EP     ZNE 07 11 59
         MSZ    EP     Z   07 12 10
         MNW    EP     Z   07 12 14

MAY 31   MNG    EP     Z   10 52 56
         MJZ    EP?    Z   10 53 18

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 31   12 54 48.3    16.8S 167.5E  21KM     NEW HEBRIDES               WEL  25
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    P      ZNE 12 59 46
         MNG    IP     Z   13 00 10.6 U

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
MAY 31   16 25 32.5    11.4N 125.5E  66KM  5.0 PHILIPPINE IS             WEL  69
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    EP     Z   16 37 27
         MJZ    EP     ZNE 16 37 31
         MNG    EP     Z   16 37 34.5

MAY 31   KRP    P      ZNE 17 53 33.0
         MNG    P      Z   17 53 51.9

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
JUN 01   03 36 19.0    53.7N 165.6W  60KM  5.7 ALEUTIAN IS               WEL  96
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         MNG    EP     Z   03 49 34

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
JUN 01   20 47 45.6     6.8S 155.0E  31KM  5.6 SOLOMON IS                WEL  39
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         KRP    EP     Z   20 54 53
         CNZ    EP     Z   20 54 57
         GNZ    EP     Z   20 55 00
         MNG    EP     Z   20 55 04

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
JUN 01   21 40 31.7     6.8S 154.7E  92KM  4.8 SOLOMON IS                WEL  39
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         MNG    EP     Z   21 47 43

JUN 02   KRP    EP     Z   20 43 41
         CNZ    EP     Z   20 43 51
         WEL    EP     Z   20 44 10
                ES     ZNE    46 03

         H  M  S       EPICENTRE    DEPTH  MAG                          DIST (DEG)
JUN 03   04 25 29.9    16.3S 167.1E   6KM     NEW HEBRIDES IS            WEL  26
                              H  M  S  DIR  LOG.A/T   AZ TZ  AN TV  AE TE MAG
         MNG    EP     Z   01 32 00
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	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 03	05 34 47.6	19.0S 168.7E	113KM		NEW HEBRIDES IS				AEL 23
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 05 39 29							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 03	14 12 24.8	6.0S 146.9E	104KM	4.7 E NEW GUINEA					AEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 14 20 15							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 05	01 21 20.2	21.3S 174.5W	33KM	5.2 TONGA					AEL 22
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ EP	Z 01 25 40							
	ES	Z 29 09							
	CNZ EP	Z 01 25 53							
	MNG EP	Z 01 26 00							
	ES	Z 29 45							
	CIZ EP	Z 01 26 33							
	ES	E 30 23							
	MJZ EP	Z 01 26 55							
JUN 05	MNG EP	Z 14 24 10							
	ES	Z 25 55							
	WEL ES	NE 14 26 13							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 05	14 33 18.9	5.3S 133.9E	6KM	4.4 ARQE IS					AEL 51
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MJZ EP	Z 14 44 17							
	MNG EP	Z 14 44 23							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 06	00 58 34.3	16.2S 167.0E	24KM		NEW HEBRIDES IS				AEL 26
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 01 04 04							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 06	06 35 16.1	6.2S 152.0E	58KM	5.4 NEW BRITAIN					AEL 40
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 06 42 47							
	MSZ EP	Z 06 42 53							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 06	09 29 54.3	10.9S 165.4E	27KM	4.8 SANTA CRUZ IS					AEL 31
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 09 36 10							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 06	09 30 26.7	10.8S 165.3E	33KM	5.1 SANTA CRUZ IS					AEL 31
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 09 36 20							
	GNZ EP	Z 09 36 32							
	MNG EP	Z 09 36 41							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 06	09 41 10.8	20.7S 178.5W	537KM	3.7 FIJI					AEL 21
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 09 44 50							
	MNG EP	Z 09 45 08							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 06	11 15 52.7	9.7S 159.8E	33KM	5.0 SOLOMON IS					AEL 34
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 11 22 32							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 06	16 09 47.3	19.6S 170.0E	28KM	4.6 NEW HEBRIDES IS					AEL 22
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 16 14 36							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 07	03 11 56.8	20.4S 177.7W	458KM	4.0 FIJI					AEL 22
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 03 16 04							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 07	17 44 14.3	10.7S 162.1E	39KM	4.7 SOLOMON IS					AEL 32
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 17 50 38							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 07	18 16 31.4	47.5N 155.4E	29KM	5.2 KURILE IS					AEL 90
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 18 29 25							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 08	07 01 54.6	6.1N 125.8E	158KM	5.4 PHILIPPINE IS					AEL 65
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 07 12 08							
	MNW EP	Z 07 12 11							
	MJZ EP	Z 07 12 14							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 08	12 01 57.3	4.6N 127.1E	73KM	5.3 TALAUD IS					AEL 63
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 12 12 06							
	KRP EP	Z 12 12 09		-1.09					6.1
	MJZ EP	Z 12 12 11							
	TUA EP	Z 12 12 18							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 08	13 22 13.7	21.4S 170.3E	90KM	5.3 LOYALTY IS					AEL 20
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 13 26 08							
	GNZ EP	Z 13 26 25							
	MJZ EP	Z 13 27 07							
	MSZ EP	Z 13 27 16							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 08	13 51 23.3	5.3N 127.0E	104KM	5.0 PHILIPPINE IS					AEL 64
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 14 01 34							
	KRP EP	Z 14 01 37							
	MJZ EP	Z 14 01 40							
JUN 08	MNW EP	Z 22 57 05							
	MSZ EP	Z 22 57 20							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 09	05 31 39.5	6.9S 125.4E	554KM	4.7 BANDA SEA					AEL 56
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MJZ EP	Z 05 40 12							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 09	11 21 57.7	4.0N 126.0E	55KM	5.0 TALAUD IS					AEL 63
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 11 32 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 09	17 05 58.9	20.6S 178.6W	546KM	4.5 FIJI					WEL 21
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	KRP EP	Z 17 09 38		-0.75					5.7
	MNG EP	Z 17 09 58							
	MSZ EP	Z 17 10 53							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 10	05 26 44.4	41.3S 73.6W	37KM	5.7 NEAR S CHILE					WEL 77
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	KRP EP	Z 05 38 34		-0.82					5.3
	MSZ EP	Z 05 38 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 10	13 58 53.3	19.3S 178.2W	596KM	5.1 FIJI					WEL 23
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	ONE EP	E 14 02 30							
	KRP P	Z 14 02 42							
	GNZ EP	Z 14 02 44		-0.41					6.1
	MNG EP	Z 14 03 02							
	ES	Z 06 18							
	WEL EP	Z 14 03 10		-0.52					6.0
	MSZ EP	Z 14 03 56							
	MNW EP	Z 14 04 06		-0.19					6.3
JUN 10	KRP EP	Z 14 09 14							
	GNZ EP	Z 14 09 16		-0.60					
	MNG EP	Z 14 09 20							
	MJZ EP	Z 14 09 32							
JUN 10	KRP EP	Z 14 11 09		-0.88					
	WEL EP	Z 14 11 38							
	MSZ EP	Z 14 12 24							
	MNW EP	Z 14 12 34		-0.71					

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 11	05 39 39.7	10.4S 164.8E	41KM	SANTA CRUZ IS					WEL 32
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MNG EP	Z 05 45 57							
	MSZ EP	Z 05 46 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	00 03 32.4	21.0S 174.6W	33KM	5.0 TONGA					WEL 22
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MNG EP	Z 00 08 14							
	ES	Z 11 54							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	00 48 59.2	21.1S 174.4W	13KM	5.1 TONGA					WEL 22
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	KRP EP	Z 00 53 21							
	MNG EP	Z 00 53 44							
	ES	Z 57 21							
	MJZ EP	Z 00 54 33							
	MSZ EP	Z 00 54 50							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	01 10 49.5	19.0N 121.1E	75KM	4.3 PHILIPPINE IS					WEL 78
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MSZ EP	Z 01 22 35							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	03 05 34.1	18.0S 167.7E	8KM	4.8 NEW HEBRIDES IS					WEL 24
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	KRP EP	Z 03 10 21							
	MNG EP	Z 03 10 46							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	05 21 10.6	44.9S 35.7E	36KM	5.6 PRINCE EDWARD IS					WEL 37
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MSZ EP	Z 05 33 24							
	MJZ EP	Z 05 33 32							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	09 24 05.8	56.1S 27.5W	33KM	5.2 S SANDWICH IS					WEL 31
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MSZ P	Z 09 36 05							
	KRP P	Z 09 36 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	16 15 32.3	5.0S 145.4E	33KM	5.4 E NEW GUINEA					WEL 45
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	KRP EP	Z 16 23 26							
	MNG EP	Z 16 23 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	18 57 45.2	0.5N 120.8E	109KM	4.7 N CELEBES					WEL 64
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MSZ EP	Z 19 07 52							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	21 17 48.9	3.1S 100.6E	33KM	5.4 S SUMATRA					WEL 76
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MNG EP	Z 21 29 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	23 22 45.3	47.4N 154.3E	56KM	5.4 KURILE IS					WEL 90
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MNG EP	Z 23 35 38							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 12	23 32 46.3	9.1N 126.4E	61KM	5.2 PHILIPPINE IS					WEL 67
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MSZ P	Z 23 43 24							
	MJZ P	Z 23 43 30							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	00 17 15.6	17.5S 167.5E	9KM	4.8 NEW HEBRIDES IS					WEL 25
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	KRP EP	Z 00 22 08							
	MNG EP	Z 00 22 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	03 11 59.0	21.2S 169.6E	33KM	4.5 LOYALTY IS					WEL 20
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MNG EP	Z 03 16 30							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	14 43 06.0	17.9S 167.7E	17KM	4.5 NEW HEBRIDES IS					WEL 24
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	MNG EP	Z 14 48 16							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 13	15 39 29.7	5.5S 148.1E	213KM	5.4 NEW BRITAIN					WEL 43
		H M S	DIR	LOG$_{10}$A/T	AZ	TZ	AN	TW	AE TE MAG
	KRP EP	Z 15 46 51		-1.03					5.5
	MNG EP	Z 15 47 06							
	MSZ EP	Z 15 47 07							
	MJZ EP	Z 15 47 09							

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 13	20 29 01.0	3.9S 140.1E	33KM	W NEW GUINEA		WEL 48
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 20 37 40				
	MNG EP	Z 20 37 44				
	MJZ EP	Z 20 37 45				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 13	22 28 47.0	2.4N 126.8E	63KM	4.9 MOLUCCA PASSAGE		WEL 52
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MJZ EP	Z 22 38 52				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 14	05 05 16.3	15.2S 173.6W	11KM	5.9 TONGA		WEL 28
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	Z 05 11 38				
	MNG EP	Z 05 11 59				
	MJZ EP	Z 05 12 39				
	MSZ EP	Z 05 12 53				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 14	08 05 58.6	47.5N 154.4E	55KM	5.3 KURILE IS		WEL 98
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	Z 08 18 45				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 14	15 02 12.1	18.6S 174.8W	68KM	4.9 TONGA		WEL 24
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 15 07 17				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 14	15 41 10.0	6.1S 149.1E	70KM	NEW BRITAIN		WEL 42
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 15 48 53				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 15	00 14 47.9	10.2S 161.3E	92KM	4.6 SOLOMON IS		WEL 83
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 00 21 11				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 15	04 49 41.4	21.6S 174.7W	33KM	4.9 TONGA		WEL 22
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 04 54 12				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 15	14 09 42.9	6.5S 154.5E	97KM	5.0 SOLOMON IS		WEL 39
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 14 16 56				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 15	14 45 05.3	6.1S 149.9E	106KM	NEW BRITAIN		WEL 41
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 14 51 57				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 15	20 44 47.9	5.4S 153.0E	65KM	5.0 NEW IRELAND		WEL 41
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 20 52 20				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 16	05 27 55.6	6.3S 146.4E	128KM	E NEW GUINEA		WEL 43
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 05 35 46				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 16	05 44 02.2	55.7S 146.8E	27KM	5.4 W OF MAQUARIE IS		WEL 23
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 05 48 04				
	MJZ EP	Z 05 48 23				
	MNG EP	Z 05 49 17				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 16	06 03 16.6	55.6S 147.3E	33KM	5.2 W OF MAQUARIE IS		WEL 23
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNW EP	Z 06 07 05				
	MSZ EP	Z 06 07 15				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 16	10 31 37.8	20.6S 169.5E	18KM	NEW HEBRIDES IS		WEL 21
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG P	Z 10 36 24				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 16	17 24 16.9	4.3S 152.1E	155KM	5.0 NEW BRITAIN		WEL 42
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	Z 17 31 36				
	MNG P	Z 17 31 52				
	MJZ EP	Z 17 31 59				
	MNW EP	Z 17 32 05				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 16	20 12 15.1	19.4S 175.2W	90KM	5.0 TONGA		WEL 23
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 20 17 06				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 17	03 53 59.6	19.5S 169.7E	279KM	4.0 NEW HEBRIDES IS		WEL 22
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 04 03 25				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 17	05 00 11.8	58.3S 26.6W	140KM	6.1 S SANDWICH IS		WEL 79
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	CIZ EP	Z 05 11 38				
	MJZ EP	Z 05 11 50				
	WEL P	Z 05 12 01			20 8	6.9
	ES	N 21 47				
	TUA EP	Z 05 12 13				
	KRP P	Z 05 12 18		-0.16		6.7
	ES	NE 22 16				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 17	07 09 11.6	11.0S 165.7E	41KM	4.3 SANTA CRUZ IS		WEL 31
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 07 15 21				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 17	07 42 48.3	14.9S 167.3E	105KM	4.4 NEW HEBRIDES IS		WEL 27
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	Z 07 47 55		-0.94		5.4
	GNZ EP	Z 07 48 08				
	MNG EP	Z 07 48 17				

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
JUN 17	15 05 34.5	17.9S 167.6E	13KM	4.8 NEW HEBRIDES IS		WEL 24
		H M S	DIR	LOG.A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 15 10 47				

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 17	18 41 59.8	17.9S 173.1W	33KM	4.3 TONGA					WEL 26
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ EP	Z 18 46 50							
	KRP EP	Z 18 46 51							
	MSZ EP	Z 18 48 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 18	04 51 07.9	20.1S 177.6W	313KM	3.6 FIJI					WEL 22
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ EP	Z 04 55 10							
	MNG EP	Z 04 55 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 18	14 04 42.8	12.4S 166.2E	38KM	4.3 SANTA CRUZ IS					WEL 33
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 14 10 42							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 18	20 04 56.7	3.9S 151.6E	301KM	4.9 NEW IRELAND					WEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	TUA EP	Z 20 12 19							
	MNG P	Z 20 12 23.7 U							
	MSZ EP	Z 20 12 29							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 19	17 07 45.4	52.7N 166.9W	33KM	5.7 ALEUTIAN IS					WEL 95
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 17 20 50							
	MNG EP	Z 17 21 00							
JUN 19	GNZ EP	Z 17 56 31							
	ES	Z 17 58 49							
	MNG EP	Z 17 56 51							
	ES	Z 17 59 30							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 19	18 30 08.4	3.0S 122.8E	147KM	4.9 N CELEBES					WEL 60
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 18 39 58							
	MJZ EP	Z 18 40 05							
	MNG EP	Z 18 40 15							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 19	21 39 32.2	8.0S 135.2E	66KM	4.7 W NEW GUINEA					WEL 48
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MJZ EP	Z 21 48 44							
	MNG EP	Z 21 48 48							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 20	07 38 44.9	52.8N 167.1W	11KM	5.2 ALEUTIAN IS					WEL 95
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 07 51 51							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 21	15 45 28.3	12.7N 123.1E	56KM	5.2 PHILIPPINE IS					WEL 72
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 15 56 37							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 21	16 51 06.3	22.3N 144.0E	94KM	4.9 VOLCANO IS					WEL 78
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 17 02 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 21	19 10 31.1	23.5S 180.0E	546KM	5.0 S OF FIJI					WEL 18
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ ES	Z 19 16 17							
	KRP EP	Z 19 13 39							
	ES	NE 16 20							
	MNG EP	Z 19 14 01							
	ES	Z 16 51							
	WEL ES	Z 19 17 11							
	MSZ EP	Z 19 14 57							
	MNW EP	Z 19 15 06							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 21	20 09 28.4	25.2S 70.5W	23KM	5.7 NEAR N CHILE					WEL 90
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	WEL EP	Z 20 22 20							
	ES	E 33 23							
	EL	ZNE 50							
	MNG EP	Z 20 22 32							
	GNZ EP	Z 20 22 35							
	KRP EP	Z 20 22 37							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 22	10 50 05.3	15.8S 172.7W	33KM	4.5 SAMOA					WEL 28
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 10 55 20							
	MNG EP	Z 10 55 40							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 22	11 40 57.8	24.5S 179.9W	429KM	4.3 S OF FIJI					WEL 17
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 11 44 25							
	ES	Z 47 11							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 22	15 35 20.4	7.8S 147.3E	32KM	5.4 E NEW GUINEA					WEL 41
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 15 43 05							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 22	15 36 38.9	51.7N 176.8W	54KM	5.3 ALEUTIAN IS					WEL 93
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 15 49 31							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 22	19 08 33.5	1.3S 149.8E	34KM	5.0 NEW IRELAND					WEL 46
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 19 16 50							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 23	00 23 29.8	15.0S 172.3W	33KM	5.1 SAMOA					WEL 28
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ EP	Z 00 30 51							
	KRP EP	Z 00 30 54							
	MNG EP	Z 00 31 13							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 23	00 42 13.4	14.9S 172.4W	33KM	5.1 SAMOA					WEL 29
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 00 47 35							
	MNG EP	Z 00 48 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 23	05 05 04.8	5.8S 130.5E	85KM	5.9 BANDA SEA					WEL 53
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW EP	Z 05 14 00							

	MJZ	P	Z	05	14	05							
	KRP	EP	Z	05	14	07							
	MNG	P	Z	05	14	14							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 23	11	47	28.9	62.5S	155.2E	33KM	5.3	BALLENY IS				REL 24
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNW	EP	Z	11	51	39						
	WEL	EP	Z	11	52	44						
		ES	E		57	19						
		EL	ZNE		58							
	MNG	EP	Z	11	52	51						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 23	14	03	52.4	13.4S	167.4E	213KM		NEW HEBRIDES IS				REL 29
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNG	EP	Z	14	09	25						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 23	14	38	35.7	21.3S	179.3W	605KM	5.1	FIJI				REL 21
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	GNZ	EP	Z	14	42	04						
		ES	Z		44	54						
	KRP	EP	Z	14	42	04						
		ES	E		44	56						
	MNG	EP	Z	14	42	24						
	MNW	EP	Z	14	43	28						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 23	21	30	11.5	19.2S	167.7E	37KM	5.3	NEW HEBRIDES IS				REL 23
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	21	34	42						
	TUA	EP	Z	21	35	05						
	MNG	EP	Z	21	35	08						
	MJZ	EP	Z	21	35	33						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 23	22	38	08.2	10.5S	161.6E	34KM	4.5	SOLOMON IS				REL 33
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNG	P	Z	22	44	35						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 24	13	28	35.9	21.4S	179.3W	592KM	4.7	FIJI				REL 20
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNG	EP	Z	13	32	26						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 24	21	00	23.9	12.5N	141.6E	18KM	5.5	S OF MARIANA IS				REL 62
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNG	EP	Z	21	10	40						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 24	21	03	35.7	11.4N	125.7E	53KM	5.0	PHILIPPINE IS				REL 59
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	21	14	30						
	MJZ	EP	Z	21	14	35						
	MNG	EP	Z	21	14	39						

JUN 25	KRP	EP	Z	17	56	43							

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 25	23	19	04.3	12.4N	141.8E	42KM	5.6	S OF MARIANA IS				REL 61
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	23	28	03						
	GNZ	EP	Z	23	28	11						
	MNG	EP	Z	23	28	16						
	MSZ	EP	Z	23	28	19						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 26	09	09	42.4	18.0S	178.3W	477KM	4.3	FIJI				REL 24
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	09	13	49		-0.82				5.6
	MNG	EP	Z	09	14	12						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 26	14	04	23.9	5.3S	147.7E	33KM	5.3	E NEW GUINEA				REL 43
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNG	EP	Z	14	12	19						
	MSZ	EP	Z	14	12	30						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 26	20	01	28.0	6.7S	154.7E	75KM		SOLOMON IS				REL 39
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNG	EP	Z	20	08	44						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 27	05	13	03.6	19.2S	169.0E	144KM	4.1	NEW HEBRIDES IS				REL 23
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	05	17	21						
	MNG	P	Z	05	17	47						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 27	07	35	40.8	18.3S	167.9E	19KM	4.5	NEW HEBRIDES IS				REL 24
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	07	40	23						
	MNG	EP	Z	07	40	49						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 27	21	37	48.1	46.4S	96.0E	33KM	5.4	SE INDIAN RISE				REL 55
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MJZ	EP	Z	21	46	47						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 28	00	14	34.5	9.5S	157.4E	16KM	5.4	SOLOMON IS				REL 35
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	00	21	06		-0.89				5.0
	GNZ	EP	Z	00	21	19		-0.74				6.1
	MJZ	EP	Z	00	21	36						
	MSZ	EP	Z	00	21	39						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 28	05	30	03.6	22.2S	176.5W	131KM	4.0	S OF FIJI				REL 20
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	05	34	00						
	MNG	EP	Z	05	34	23						
		ES	Z		37	44						
	MSZ	EP	Z	05	35	28						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 28	05	34	06.4	14.4S	172.6W	40KM	4.8	SAMOA				REL 29
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	MNG	EP	Z	05	39	48						
JUN 28	GNZ	ES	Z	19	15	08						
	MNG	EP	Z	19	13	11						
		ES	Z		15	48						

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)
JUN 29	09	25	47.4	15.8S	172.4W	14KM	4.8	SAMOA				REL 28
				H	M	S	DIR	LOG A/T	AZ	TZ	AN TN	AE TE MAG
	KRP	EP	Z	09	31	05						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 29	16 36 15.7	7.2S 128.6E	121KM	5.4 BANDA SEA					WEL 93
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MNW EP	Z 16 45 07								
MJZ EP	Z 16 45 12								
KRP EP	Z 16 45 17								
MNG EP	Z 16 45 23								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 30	19 20 56.6	31.1S 179.6W	261KM	4.4 KERMADEC IS					WEL 11
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MNG EP	Z 19 23 11								
ES	Z 25 04								
WEL EP	ZNE 19 25 21								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 01	23 10 07.2	54.4N 158.0W	33KM	6.2 S OF ALASKA					WEL 98
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 23 23 28.5								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 02	07 03 32.9	8.7N 93.8E	33KM	5.7 NICOBAR IS					WEL 99
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 07 16 47								
MNG EP	Z 07 16 52.5								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 02	16 15 48.4	32.9N 141.7E	19KM	5.0 S OF HONSHU JAPAN					WEL 90
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 16 27 44.7								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 03	03 42 18.2	12.3N 143.9E	33KM	5.0 S OF MARIANA IS					WEL 60
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MNG EP	Z 03 52 24								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 03	11 03 45.3	21.9S 179.8E	690KM	S OF FIJI					WEL 20
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 11 07 05								
MNG EP	Z 11 07 27.7								
ES	Z 10 22.1								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 04	03 17 32.2	14.9S 168.0E	19KM	4.8 NEW HEBRIDES					WEL 27
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 03 22 28								
MNG EP	Z 03 23 10.5								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 04	14 15 51.6	38.1S 73.4W	28KM	5.4 CENTRAL CHILE					WEL 79
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MJZ EP	Z 14 28 59.4								
MSZ EP	Z 14 29 02.2								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 04	23 42 13.7	43.2N 142.5E	160KM	5.6 HOKKAIDO JAPAN					WEL 89
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP P	Z 23 54 39.9								
MNG P	Z 23 54 49								
MJZ P	Z 23 54 58.2								
MSZ EP	Z 23 54 59								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 06	20 23 28.8	20.6S 169.1E	53KM	4.1 NEW HEBRIDES					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
GNZ EP	Z 20 27 54								
MNG EP	Z 20 28 05								
MJZ EP	Z 20 28 36								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 07	09 42 08.0	20.3S 177.7W	540KM	4.6 FIJI					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
ECZ EP	Z 09 45 47								
GNZ EP	Z 09 45 53								
KRP IP	Z 09 45 53.9			-0.28					6.2
CNZ EP	Z 09 46 02								
MNG EP	Z 09 46 13								
WEL EP	Z 09 46 22			-0.63					5.9
ES	E 09 46								
MJZ EP	Z 09 46 55								
MSZ EP	Z 09 47 08.6								
MNW EP	Z 09 47 18								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 07	13 28 39.1	8.7N 126.1E	195KM	5.5 PHILIPPINE IS					WEL 67
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MSZ EP	Z 13 39 01.4								
KRP EP	Z 13 39 03								
MJZ EP	Z 13 39 07								
MNG EP	Z 13 39 11								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 07	19 25 19.1	9.9S 160.0E	42KM	4.6 SOLOMON IS					WEL 34
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MNG EP	Z 19 31 56								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 08	00 58 54.7	15.4S 165.5E	137KM	5.2 NEW HEBRIDES					WEL 27
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP IP	Z 01 03 54.8								
CNZ P	Z 01 04 05.5								
GNZ EP	Z 01 04 06								
ES	Z 08 21								
MNG EP	Z 01 04 16								
ES	Z 08 40.6								
WEL EP	Z 01 04 20								
MSZ EP	Z 01 04 25								
MJZ EP	Z 01 04 39								
ROX EP	Z 01 04 51								
MNW EP	Z 01 04 54								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 08	06 22 52.8	16.3S 166.8E	9KM	5.0 NEW HEBRIDES					WEL 26
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 06 28 01								
GNZ EP	Z 06 28 15								
MNG EP	Z 06 28 25								
MJZ EP	Z 06 28 56								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 08	07 39 42.8	20.8S 179.1W	589KM	3.8 FIJI					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 07 43 17								
MNG EP	Z 07 43 38								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 08	10 02 19.5	25.8S 179.8E	459KM	4.1 S OF FIJI					WEL 16
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP E	Z 10 05 29							
	MNG EP	Z 10 05 29							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 08	13 13 29.1	19.9S 178.1W	520KM	4.3 FIJI					WEL 22
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 13 17 17							
	MNG EP	Z 13 17 36							

JUL 10	KRP EP	Z 05 39 42							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 10	06 29 30.5	17.6S 178.8W	529KM	4.8 FIJI					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 06 33 36							
	GNZ EP	Z 06 33 38							
	MNG EP	Z 06 34 01							
	MJZ EP	Z 06 34 35							
	MSZ EP	Z 06 34 49							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 10	10 19 25.1	21.6S 179.4W	621KM	4.8 FIJI					WEL 20
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	Z 10 21 48		-0.52					5.7
	GNZ EP	Z 10 21 50							
	MNG EP	Z 10 22 09							
	ES	Z 23 15							
	MNW EP	Z 10 23 17							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 10	12 01 31.5	5.9S 113.1E	591KM	5.4 JAVA SEA					WEL 65
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ P	Z 12 10 52							
	MJZ P	Z 12 11 00							
	KRP EP	Z 12 11 14		-0.82					5.7
	MNG P	Z 12 11 17							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 10	19 19 14.7	4.8N 127.1E	118KM	5.2 TALAUD IS					WEL 63
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 19 28 23							
	KRP EP	Z 19 28 24							
	MJZ EP	Z 19 28 27.6							
	MNG EP	Z 19 28 31.7							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 11	04 17 02.1	7.0S 155.8E	88KM	4.8 SOLOMON IS					WEL 38
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 04 23 52							
	MNG EP	Z 04 24 11							
	MSZ EP	Z 04 24 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 11	17 31 22.8	19.4S 177.7W	381KM	4.2 FIJI					WEL 23
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 17 35 24		-1.00					5.3
	MNG EP	Z 17 35 43							
	MSZ EP	Z 17 36 40							
	MNW EP	Z 17 36 48							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 12	04 29 33.4	0.2S 125.5E	34KM	4.8 MOLUCCA SEA					WEL 60
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 04 38 35							
JUL 12	KRP EP	Z 05 06 41							
JUL 12	GNZ EP	Z 14 06 01.5							
	KRP EP	Z 14 06 15							
	MNG E(P)	Z 14 06 32							
JUL 12	MNG EP	Z 19 06 38							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 12	20 54 37.3	18.7S 169.4E	243KM	4.9 NEW HEBRIDES					WEL 23
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 20 59 19							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 12	21 14 53.1	16.1S 178.3E	33KM	5.3 FIJI					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 21 19 45		-0.59					5.7
	ES	NE 26 28							
	MNG EP	Z 21 20 08							
	MSZ EP	Z 21 20 57							
	ES	Z 27 45							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 13	00 51 16.8	32.2S 178.3W	33KM	4.5 S OF KERMADEC IS					WEL 11
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 00 53 03							
	MNG EP	Z 00 53 29							
	GNZ EP	Z 00 53 06							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 13	07 36 07.2	16.2S 178.1E	50KM	5.4 FIJI					WEL 25
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 07 40 58		-1.15					5.1
	MNG EP	Z 07 41 22							
	MJZ EP	Z 07 42 03							
	MSZ EP	Z 07 42 12							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 13	10 04 19.0	20.4S 169.3E	46KM	5.0 NEW HEBRIDES					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 10 08 32							
	GNZ EP	Z 10 08 47							
	MNG P	Z 10 08 58							
	MJZ EP	Z 10 09 27							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 14	02 47 53.0	11.4S 166.2E	80KM	5.2 SANTA CRUZ IS					WEL 31
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 02 53 35							
	MNG EP	Z 02 53 55							
	ES	Z 58 50							
	MJZ EP	Z 02 54 18							
	MSZ EP	Z 02 54 23							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 14	22 35 59.9	3.5N 149.4E	33KM	4.6 BISMARCK SEA					WEL 50
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 22 45 03							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 15	14	40	35.0	6.8N 126.3E	37KM	5.3 PHILIPPINE IS					WEL 65
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MSZ	EP		Z	14	51	03				
	KRP	EP		Z	14	51	05				
	MJZ	EP		Z	14	51	09				
	MNG	E(P)		Z	14	51	20				
JUL 15	KRP	EP		Z	17	07	37				
	MNG	EP		Z	17	07	57				
		EP		Z		11	59				
	MSZ	EP		Z	17	08	35				

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 15	17	04	13.0	21.9S 179.6W	574KM	4.1 FIJI					WEL 20
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MNG	EP		Z	17	14	35				
JUL 15	MNG	EP		Z	18	05	50				
JUL 15	WPZ	EP		Z	23	59	17				
		ES		Z	24	00	07				
	MNW	EP		Z	23	59	19.5				
		ES		Z	24	00	15				
	ROX	EP		Z	23	59	33				
		ES		Z	24	00	38				
	MSZ	EP		Z	23	59	35				
		ES		Z	24	00	43				
	MJZ	EP		Z	23	59	52.5				
		E		Z	24	01	01				
	GPZ	E?		N	24	00	17				
		E		N			23				
		ES		N		01	44				
	KAI	E		X	24	01	58				
	MNG	EP		Z	24	01	02				
		ES		Z		03	12				
JUL 16	ECZ	E		Z	01	43	34				
		E		Z		44	09				
		ES		Z			57				
	KRP	EP		Z	01	44	06				
		ES		Z		45	43				
	CNZ	E		Z	01	44	08				
		ES		Z		46	02				
	MNG	EP		Z	01	44	30				
		ES		Z		46	24				
	WEL	ES		Z	01	46	42				
	GPZ	ES		Z	01	47	46				

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 16	13	34	29.9	0.8S 132.6E	33KM	W NEW GUINEA					WEL 55
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MSZ	EP		Z	13	43	52				
	KRP	EP		Z	13	43	53		-0.73		6.3
	MJZ	EP		Z	13	43	58				
	MNG	EP		Z	13	44	00				
	WEL	EP		Z	13	44	02				
		ES		NE		51	40				
		ELQ		NE		58					
		ELR		Z	14	01				65 19 14 15	38 19

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 16	21	11	16.5	16.8S 173.4W	24KM	4.9 TONGA					WEL 26
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	GNZ	EP		Z	21	16	24				
	KRP	EP		Z	21	16	26				

	MSZ	EP		Z	21	16	44				
	MNG	EP		Z	21	16	46				
JUL 17	KRP	EP		Z	04	30	38				
	MNG	EP		Z	04	31	08				

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 17	05	03	11.6	7.1S 146.1E	190KM	E NEW GUINEA					WEL 43
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP	EP		Z	05	10	36				
	MNG	EP		Z	05	10	50				
JUL 17	KRP	EP		Z	12	35	31				

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 19	12	41	28.8	20.3S 176.2W	518KM	4.5 FIJI					WEL 22
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP	EP		Z	12	45	12				
	WEL	EP		Z	12	45	40.9		-0.66		5.8
	MSZ	EP		Z	12	46	24				
	MNW	EP		Z	12	46	37				
JUL 19	KRP	EP		Z	21	22	20				
	WEL	E		Z	21	26	36				
JUL 20	KRP	EP		Z	02	41	27				

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 20	09	02	25.7	4.6S 144.2E	94KM	5.1 NEW GUINEA					WEL 46
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP	EP		Z	09	10	25				
	MSZ	EP		Z	09	10	34				
	MJZ	EP		Z	09	10	37				

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 20	11	40	41.2	6.3S 147.0E	61KM	5.1 E NEW GUINEA					WEL 43
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP	EP		Z	11	48	19				
	MSZ	EP		Z	11	48	31				
	MNW	EP		Z	11	48	38				

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 20	13	11	35.0	28.1S 66.9W	157KM	5.3 ARGENTINA					WEL 90
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MJZ	EP		Z	13	24	25				
	MSZ	EP		Z	13	24	27				
	KRP	EP		Z	13	24	29				
	MJZ	E		Z	13	25	04				
	MSZ	E		Z	13	25	10				

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 20	14	26	14.1	51.4N 178.3E	33KM	5.3 ALEUTIAN IS					WEL 92
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP	EP		Z	14	39	19		-0.39		7.0

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 20	15	36	20.1	7.7N 134.9E	8KM	W CAROLINE IS					WEL 61
					H	M	S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MSZ	EP		Z	15	46	29				
	KRP	EP		Z	15	46	29				
	WEL	EP		Z	15	46	34		-1.03		6.2
		ES		NE		54	49				
	ROX	EP		Z	15	46	40				

	WEL	EP	Z	12 45 40,9		-0.66							5,9
	MSZ	EP	Z	12 46 24									
	MNW	EP	Z	12 46 37									
JUL 19	KRP	EP	Z	21 22 20									
	WEL	E	Z	21 26 36									
JUL 20	KRP	EP	Z	02 41 27									

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 20	09	02	25.7	4.6S	144.2E	94KM	5.1 NEW GUINEA					WEL	46
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	09	10 25								
	MSZ	EP	Z	09	10 34								
	MJZ	EP	Z	09	10 37								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 20	11	40	41.2	6.3S	147.0E	61KM	5.1 E NEW GUINEA					WEL	43
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	11	48 19								
	MSZ	EP	Z	11	48 31								
	MNW	EP	Z	11	48 38								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 20	13	11	35.0	28.1S	66,9W	157KM	5.3 ARGENTINA					WEL	90
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MJZ	EP	Z	13	24 25								
	MSZ	EP	Z	13	24 27								
	KRP	EP	Z	13	24 29								
	MJZ	E	Z	13	25 04								
	MSZ	E	Z	13	25 10								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 20	14	25	14.1	51.4N	178,3E	33KM	5.3 ALEUTIAN IS					WEL	92
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	14	39 19		-0.39						7,8

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 20	15	35	20.1	7.7N	134,9E	8KM	W CAROLINE IS					WEL	61
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	EP	Z	15	46 29								
	KRP	EP	Z	15	46 29		-1.03						6,2
	WEL	EP	Z	15	46 34								
JUL 22	MSZ	EPKP	Z	17	16 40								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 23	03	09	43.7	15.7S	167,1E	33KM	4.9 NEW HEBRIDES					WEL	26
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	P	Z	03	13 53		-0.55						5,8
	CNZ	EP	Z	03	14 05								
	MSZ	EP	Z	03	14 48								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 23	13	49	05.8	56.2S	158.3E	33KM	5.1 MACQUARIE IS					WEL	18
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	EP	Z	13	51 12								
	MJZ	EP	Z	13	51 21								
	KRP	EP	Z	13	53 01								
	GNZ	EP	Z	13	53 09								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 23	18	44	13.6	20.0S	175.5W	77KM	4.9 TONGA					WEL	23
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	18	48 38								
		E	Z		54								
	MJZ	EP	Z	18	49 46								

	MSZ	EP	Z	18	50 02								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 24	01	18	21.3	14.9S	167.3E	125KM	NEW HEBRIDES					WEL	27
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	01	23 26								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 24	07	39	31.7	8.3S	121.3E	197KM	5.7 FLORES IS					WEL	57
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	EP	Z	07	48 38								
		E	Z		49 39								
	MJZ	EP	Z	07	48 48								
	KRP	EP	Z	07	48 59								
	WEL	EP	Z	07	49 01								
JUL 26	ECZ	IP	Z	06	32 49,8								
		ES	Z		34 01								
	GNZ	EP	Z	06	32 58								
		ES	Z		34 16								
	KRP	EP	Z	06	33 08								
		E	Z		34 51								
	CNZ	EP	Z	06	33 19,5								
		ES	Z		34 55								
	MNG	EP	Z	06	33 35,5								
		E	Z		39								
		E	Z		35 18,5								
		ES	Z		24								
	WEL	EP	Z	06	33 45								
		ES	Z		35 39								
	COB	ES	Z	06	35 59								
	KAI	E	Z	06	36 36								
		ES	Z		43								
	GPZ	EP	Z	06	34 22								
		ES	Z		36 45								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 26	08	14	56.3	22.0S	170.1E	30KM	5.0 LOYALTY IS					WEL	20
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	GNZ	EP	Z	08	18 09								
	KRP	EP	Z	08	18 50								
	MJZ	EP	Z	08	19 53								
	MSZ	EP	Z	08	20 02								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 26	18	52	21.2	17.4S	174.0W	15KM	5.0 TONGA					WEL	26
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	18	57 24								
	GNZ	EP	Z	18	57 23								
	MJZ	EP	Z	18	58 35								
	MSZ	EP	Z	18	58 42								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 26	18	53	01.3	39.5N	40.4E	33KM	5.6 TURKEY					WEL	146
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EPKP	Z	19	12 36								
	GNZ	EPKP	Z	19	12 42								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST (DEG)	
JUL 27	00	08	40.1	6.8S	155.4E	54KM	5.2 SOLOMON IS					WEL	38
				H	M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	P	Z	00	15 39								
	GNZ	EP	Z	00	15 53								
	MJZ	EP	Z	00	16 06								
	MSZ	P	Z	00	16 08								
JUL 27	KRP	EP	Z	17	21 42								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 28	05 16 28.2	22.1S 169.9E	33KM	4.1 LOYALTY IS					WEL 20
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 05 20 22								
MJZ EP	Z 05 21 25								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 28	14 25 50.1	20.7S 178.5W	555KM	4.7 FIJI					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP IP	Z 14 29 30.2								
WEL P	Z 14 29 58								
MSZ EP	Z 14 30 45								
MNW EP	Z 14 30 55								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 28	18 32 39.9	15.2S 178.5W	375KM	4.3 FIJI					WEL 27
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 18 37 18								
MJZ EP	Z 18 38 16								
MSZ EP	Z 18 38 30								
MNW EP	Z 18 38 39								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 28	20 05 53.7	8.4S 116.9E	63KM	5.4 SUMBAWA IS					WEL 91
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MSZ EP	Z 20 16 35								
MJZ EP	Z 20 16 44								
KRP EP	Z 20 16 58								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 28	23 33 59.9	5.2S 145.0E	81KM	5.0 E NEW GUINEA					WEL 45
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 23 46 53								
MSZ EP	Z 23 47 04								
MJZ EP	Z 23 47 06								
MNW EP	Z 23 47 09								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 29	05 20 05.3	6.6S 155.2E	381KM	5.0 SOLOMON IS					WEL 39
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 05 26 35								
E	Z 28 53								
MSZ EP	Z 05 27 02								
MNW EP	Z 05 27 08								
JUL 29 KRP EP	Z 14 01 50								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 29	14 19 03.7	7.0S 155.8E	85KM	4.6 SOLOMON IS					WEL 38
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 14 25 55								
MSZ EP	Z 14 26 24								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 30	01 31 01.7	40.7N 30.4E	16KM	5.6 TURKEY					WEL 153
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EPKP	Z 01 50 58								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 30	03 37 22.7	22.0N 143.8E	121KM	5.1 VOLCANO IS					WEL 69
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 03 48 01								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 30	13 35 14.4	5.3S 153.6E	50KM	5.2 NEW IRELAND					WEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP P	Z 13 42 32			-0.52					6.3
GNZ P	Z 13 42 46			-0.34					6.5
MNW EP	Z 13 43 05								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 30	15 21 15.1	10.6S 166.1E	174KM	4.6 SANTA CRUZ					WEL 32
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 15 26 55								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 30	17 24 43.1	17.8S 178.8W	564KM	5.1 FIJI					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP P	Z 17 28 45								
ES	NE 32 11								
GNZ EP	Z 17 28 47								
ES	Z 32 17								
WEL EP	Z 17 29 13								
MJZ EP	Z 17 29 44								
MNW EP	Z 17 30 07								
E	Z 31 45								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 30	22 21 42.6	56.3S 26.9W	118KM	5.3 S SANDWICH IS					WEL 81
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MSZ EP	Z 22 33 34								
KRP EP	Z 22 34 05								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 31	10 05 01.3	16.0S 174.3W	151KM	3.8 TONGA					WEL 27
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 10 10 03								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUL 31	23 45 34.0	5.2S 145.6E	77KM	4.7 E NEW GUINEA					WEL 44
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MSZ EP	Z 23 52 20								
WEL EP	Z 23 53 19								
ES	NE 57 12								
KRP EP	Z 23 53 51								
GNZ EP	Z 23 53 52								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 01	09 03 49.3	60.0S 159.2E	33KM	5.5 SOUTH OF N Z					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
ROX EP	ZNE 09 09 28								
ES	ZNE 12 21								
EL	ZNE 13 10						17	20	
MSZ EP	Z 09 09 33								
WEL EP	ZNE 09 10 32						4	10	5.8
ES	ZNE 14 23								
ELR	ZNE 15 38						16	20	12 20 17 20
KRP EP	ZNE 09 11 05								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 02	11 05 38.7	71.2N 8.0W	33KM	5.0 JAN MAYEN IS					WEL 150
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MNG EPKP	Z 11 26 25								
MJZ EPKP	Z 11 26 37								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 02	14 06 17.8	71.2N 8.5W	33KM	5.3 JAN MAYEN IS					WEL 150
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
MNG EPKP	Z 14 26 08								

	MJZ	EPKP	Z	14 26 19								
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 03	00 08 12.9	20.1S 174.3W		43KM	4.4 TONGA						WEL 23	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	Z 00 12 35										
	MNG EP	Z 00 12 56										
	ES	Z 16 45										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 03	01 53 56.5	6.9S 129.4E		162KM	5.3 BANDA SEA						WEL 93	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MNW EP	Z 02 02 43										
	MNG EP	Z 02 02 56										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 03	02 27 40.1	19.9S 178.6W		426KM	3.9 FIJI						WEL 22	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MNG EP	Z 02 31 55										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 03	06 43 24.7	10.8S 165.5E		57KM	4.7 SANTA CRUZ IS						WEL 31	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MNG EP	Z 06 49 32										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 03	10 51 10.0	31.6S 178.7E		52KM	4.3 KERMADEC IS						WEL 10	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MNG EP	Z 10 53 27										
	ES	Z 55 13										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 04	22 34 47.7	17.7S 173.2W		33KM	4.8 TONGA						WEL 26	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	ZNE 22 39 45										
	MNG EP	Z 22 40 08										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 07	17 07 20.1	29.4S 177.4W		147KM	4.8 KERMADEC IS						WEL 13	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	ECZ EP	Z 17 09 20										
	ES	Z 10 58										
	KRP EP	ZNE 17 09 36										
	MNG EP	Z 17 10 02										
	ES	Z 12 09										
	MSZ EP	Z 17 11 27										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 09	08 20 03.7	6.4S 130.4E		89KM	5.7 BANDA SEA						WEL 93	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MJZ P	ZNE 08 28 59										
	KRP EP	ZNE 08 29 01										
	WEL EP	Z 08 29 08										
	ES	Z 36 30										
	ELR	ZNE 44 50										
	GNZ EP	Z 08 29 15										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 09	10 22 23.7	31.2S 180.0E		333KM	5.2 KERMADEC IS						WEL 11	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	ECZ EP	Z 10 24 05										
	ES	Z 25 20										
	KRP EP	ZNE 10 24 18										
	ES	ZNE 25 52										
	MNG EP	Z 10 24 41										
	MJZ ES	NE 10 28 16										

	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 10	21 45 42.5	4.7S 126.5E		423KM	5.0 BANDA SEA						WEL 56	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MSZ IP	Z 21 54 26		U								
	MNG IP	Z 21 54 44		U								
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 12	09 39 44.3	24.7S 177.5W		134KM	5.8 S OF FIJI						WEL 18	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	ECZ EP	Z 09 42 49										
	ES	Z 44 57										
	ONE EP	E 09 42 56										
	sPP	E 43 18										
	WEL EP	ZNE 09 43 37			-0.23							6.0
	E.SP	ZNE 44 19										
	ES	ZNE 46 42										
	ELR	ZNE 48 44										
	MJZ EP	ZNE 09 44 24										
	ES	ZNE 48 07										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 12	12 30 56.1	14.9S 166.7E		27KM	5.2 NEW HEBRIDES						WEL 27	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	ZNE 12 36 14										
	WEL EP	Z 12 36 38				3	15					5.7
	ES	NE 41 18										
	ELR	ZNE 44 03				12	20	6	20	12	20	
	MJZ EP	ZNE 12 37 00										
	MSZ EP	Z 12 37 05										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 12	23 30 56.8	14.2S 166.7E		53KM	4.4 NEW HEBRIDES						WEL 28	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	Z 23 36 19										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 13	05 14 57.9	18.3S 174.0W		25KM	4.5 TONGA						WEL 25	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP IP	ZN 05 19 49.6		U	-0.95							5.3
	MNG EP	Z 05 20 11										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 13	16 33 04.0	50.9S 29.1E		33KM	5.4 S OF AFRICA						WEL 93	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MNG EP	Z 16 45 34										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 13	16 54 45.7	4.3S 152.5E		25KM	5.0 NEW BRITAIN						WEL 42	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP P	ZNE 17 02 18			-0.74							6.0
	ECZ EP	Z 17 02 30										
	WEL EP	ZNE 17 02 41										
	ES	ZNE 08 58										
	ELR	ZNE 14										
	MSZ EP	Z 17 02 44										
	H M S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
AUG 13	20 05 50.6	35.3N 135.3E		357KM	6.0 S HONSHU JAPAN						WEL 84	
		H M S		DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	ONE EP	N 20 18 23										
	KRP IP	ZNE 20 18 33.1		D	0.22							7.2
	E.PP	ZNE 19 55										
	WEL IP	ZNE 20 18 44.1		D	-0.13	4	6					6.7
	E.SP	Z 20 45										
	EPP	Z 22 07										
	MJZ IP	ZNE 20 18 49.1		D								

		E*P?	ZNE	20 10									
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 13	20 50 54.1	4.2S 152.3E	34KM	4.5 NEW BRITAIN							WEL 42		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	ZNE 20 58 26											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 13	22 11 12.8	4.4S 152.4E	30KM	4.7 NEW BRITAIN							WEL 42		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	ZNE 22 18 47											
	MNG EP	Z 22 19 02											
	MSZ IP	Z 22 19 12.5 D											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 13	22 15 09.6	4.4S 152.5E	29KM	5.3 NEW BRITAIN							WEL 42		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	ZNE 22 22 41		-0.11							5.7		
	ECZ EP	Z 22 22 53											
	WEL EP	ZNE 22 23 02		-0.14							5.8		
	ES	ZNE 29 18											
	ESCS	ZNE 32 58											
	ELQ	E 34											
	ELR	ZNE 35					43	21			47 21		
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 14	05 57 48.8	14.9S 167.4E	146KM	NEW BRITAIN							WEL 27		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	Z 06 02 55											
AUG 16	ECZ EP	Z 12 01 33.5											
	KRP EP	Z 12 01 55											
	CNZ EP	Z 12 02 04											
	MNG EP	Z 12 02 16											
	ES	Z 04 04											
	WEL ES	ZNE 12 04 24											
	GPZ ES	Z 12 05 29											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 16	17 42 55.7	56.2S 26.9W	113KM	5.4 S SANDWICH IS							WEL 91		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ P	Z 17 54 46											
	MNG P	Z 17 55 01											
	KRP P	ZNE 17 55 14											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 16	19 13 57.6	0.9N 98.9E	26KM	5.6 N SUMATRA							WEL 80		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ EP	Z 19 30 43											
	MJZ EP	ZNE 19 30 52											
	MNG EP	Z 19 31 07											
	KRP EP	ZNE 19 31 09											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 17	22 42 09.3	59.4N 151.4W	55KM	5.0 ALASKA							WEL 104		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	ZNE 22 55 42											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 18	09 36 42.1	5.7N 125.8E	160KM	5.2 PHILIPPINE IS							WEL 65		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MJZ EP	Z 09 46 59											
	WEL EP	Z 09 47 10											

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 19	07 10 21.0	10.3S 161.4E	72KM	SOLOMON IS							WEL 33		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MNG EP	Z 07 16 45											
	MSZ EP	Z 07 17 07											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 19	08 21 33.1	27.1S 176.5W	33KM	4.8 KERMADEC IS							WEL 16		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	ZNE 08 24 46											
	MNG EP	Z 08 25 00											
	ES	Z 27 38											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 19	10 34 26.2	18.9S 173.6W	33KM	4.3 TONGA							WEL 24		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	Z 10 39 13											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 19	15 28 08.5	10.4N 126.0E	58KM	5.6 PHILIPPINE IS							WEL 58		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ P	Z 15 38 55											
	KRP EP	ZNE 15 38 56											
	MJZ P	ZNE 15 39 00											
	WEL EP	ZNE 15 39 03		-0.90							6.2		
	ES	ZNE 47 56											
	ELQ	NE 58											
	ELR	ZNE 16 00											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 19	15 41 53.3	12.4S 166.6E	86KM	5.4 SANTA CRUZ IS							WEL 30		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	ZNE 15 47 25											
	WEL EP	ZNE 15 47 51		-0.85							5.7		
	ES	ZNE 53 15											
	ELR	ZNE 56											
	MJZ EP	ZNE 15 48 11											
	IPCP	Z 51 00	D										
	MSZ P	Z 15 48 15											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 19	18 39 35.9	20.5S 175.8W	110KM	4.6 TONGA							WEL 22		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	ZNE 18 42 48											
	MNG EP	Z 18 43 11											
	MSZ EP	Z 18 44 19											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 20	15 03 36.2	25.2S 69.0W	109KM	5.6 N CHILE							WEL 91		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MNG P	Z 15 16 31											
	MJZ P	ZNE 15 16 36											
	KRP P	ZNE 15 16 39		-0.75							6.7		
	MSZ P	Z 15 16 39											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 21	02 02 01.7	17.8S 172.8W	33KM	4.3 TONGA							WEL 26		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	KRP EP	ZNE 02 07 02											
	MNG EP	Z 02 07 23											
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)		
AUG 21	07 33 00.6	3.6S 95.8E	33KM	5.9 W OF N SUMATRA							WEL 79		
		H M S	DIR	LOG*A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	MSZ EP	Z 07 45 09											
	MJZ EP	ZNE 07 45 16											

	WEL	EP	ZNE	07	45	26			5	8			6.6
		ES	ZNE		55	37					14	14	6.9
		ELQ	NE	08	08								
		ELR	ZNE		13				46	21	10	21	37 21

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 21	21	37	05.3	1.9S 151.9E	13KM	4.9 NEW IRELAND					WEL 44
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	ZNE	21 44 58							
	MNG	EP	Z	21 45 13							
	MJZ	EP	ZNE	21 45 22							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 22	13	02	06.8	60.8S 24.6W	33KM	6.1 S SANDWICH IS					WEL 77
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	CIZ	EP	ZNE	13 13 36							
	MSZ	EP	Z	13 13 42							
	MJZ	P	ZNE	13 13 45							
	WEL	P	ZNE	13 13 58		-0.21	13	10			6.9
		ES	ZNE	23 48					7	13	37 23 6.9
		ELQ	NE	34							
		ELR	ZNE	36			38	19	28	19	11 19
	KRP	P	ZNE	13 14 15							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 22	13	17	02.5	60.9S 23.2W	19KM	5.9 S SANDWICH IS					WEL 77
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ	EP	Z	13 28 40							
	MJZ	EP	ZNE	13 28 44							
	KRP	EP	ZNE	13 29 14							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 22	17	33	14.5	22.4S 171.4E	144KM	4.8 LOYALTY IS					WEL 19
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	ZNE	17 36 51							
	MNG	P	Z	17 37 20							
	MJZ	P	ZNE	17 37 54							
	MSZ	EP	Z	17 38 06							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 22	22	55	14.5	20.5S 178.4W	533KM	4.0 FIJI					WEL 22
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	ZNE	22 28 57		-1.20					5.3

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 23	17	08	46.7	23.4S 179.7E	640KM	4.6 S OF FIJI					WEL 18
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	17 11 51							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 24	05	30	05.8	21.0S 179.4W	672KM	4.7 FIJI					WEL 21
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	Z	05 33 33							
	MNG	EP	Z	05 33 54							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 24	10	32	52.6	14.9S 166.9E	23KM	5.3 NEW HEBRIDES					WEL 27
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	IP	ZNE	10 38 09.6 D							
	GNZ	EP	Z	10 38 20							
		ES	Z	42 53							
	MNG	EP	Z	10 38 30							
		ES	Z	43 12							
	MJZ	EP	ZNE	10 38 52							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 24	13	34	10.5	22.3S 178.1W	330KM	4.6 S OF FIJI					WEL 20
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	ZNE	13 37 54							
	MNG	EP	Z	13 38 05							
		ES	Z	41 19							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 24	17	14	00.1	18.5N 145.5E	197KM	5.1 MARIANA IS					WEL 65
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	ZNE	17 24 07							
	MNG	EP	Z	17 24 27							
	MJZ	P	ZNE	17 24 28							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 25	09	09	15.3	14.1S 170.0E	629KM	4.0 NEW HEBRIDES					WEL 27
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	P	ZN	09 13 45							
	MNG	P	Z	09 14 05							
	WEL	P	Z	09 14 11							
	MSZ	P	Z	09 14 40							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 25	22	58	48.3	12.2N 140.9E	33KM	5.1 W CAROLINE IS					WEL 62
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP	Z	23 09 03							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 26	00	36	42.1	12.2N 140.7E	33KM	6.1 W CAROLINE IS					WEL 62
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	ZNE	00 46 44							
	GNZ	EP	Z	00 46 57							
	WEL	EP	ZNE	00 46 58		-0.62					6.6
		ES	ZNE	55 21							
		ESS	ZNE	59 20							
		ELR	ZNE	01 06					23	20	17 20 15 20
	MSZ	EP	Z	00 46 59							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 26	00	53	17.4	12.2N 140.7E	14KM	5.3 W CAROLINE IS					WEL 62
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP	Z	01 03 35							
	MSZ	EP	Z	01 03 37							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 26	02	07	08.9	12.2N 140.8E	30KM	5.3 W CAROLINE IS					WEL 62
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP	ZNE	02 17 10							
	MNG	EP	Z	02 17 24							
	MSZ	EP	Z	02 17 26							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 26	18	19	58.2	15.4S 172.7W	37KM	5.0 SAMOA					WEL 28
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	ONE	EP	N	18 25 09							
	KRP	EP	ZNE	18 25 21							
	WEL	EP	ZNE	18 25 49							
		EL	ZNE	33							
	MSZ	EP	Z	18 26 40							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
AUG 27	14	15	56.1	0.5N 126.1E	62KM	5.4 MOLUCCA PASSAGE					WEL 51
				H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ	P	Z	14 26 46							
	MJZ	P	ZNE	14 26 53							
	KRP	EP	ZNE	14 26 55							

	MNG	EP	Z	14 27 01								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
AUG 27	21	38	59.2	4.7S 153.1E	62KM	4.8 NEW IRELAND					WEL	41
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	21 46 37								
	MSZ	EP	Z	21 46 46								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
AUG 27	22	10	11.6	20.4S 178.1W	545KM	4.3 FIJI					WEL	22
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	P	ZNE	22 13 55.5		-1.07						5.4
	GNZ	EP	Z	22 13 56		-1.09						5.4
		ES	Z	16 53								
	MNG	EP	Z	22 14 14								
		ES	Z	17 25								
	MSZ	EP	Z	22 15 11								
AUG 28	KRP	EP	ZNE	03 44 58								
		S	ZNE	47 19								
	GNZ	EP	Z	03 45 01								
		S	Z	47 20								
	TUA	EP	Z	03 44 57								
		S	Z	47 18								
AUG 29	MSZ	EP	Z	07 36 58								
	MJZ	EP	ZNE	07 37 06								
	WEL	EP	Z	07 37 20								
		ES	Z	45 20								
		EL	ZNE	54				6 20		8 18		3 18
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
AUG 29	10	50	09.4	3.3S 141.5E	41KM	5.1 NEW GUINEA					WEL	48
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	P	ZNE	10 58 35		-0.99						5.8
	MSZ	EP	Z	10 58 42								
	MJZ	EP	ZNE	10 58 44								
	MNG	P	Z	10 58 47								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
AUG 30	04	22	01.5	31.7N 100.3E	3KM	6.1 CHINA					WEL	100
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EPP	Z	04 39 43								
	MNG	EPP	Z	04 39 52								
	WEL	EP	Z	04 35 46								
		EPP	ZE	39 56								
		EPPP	Z	41 55								
		ES	ZE	47 45								
		ESS	ZE	54 27								
		ELR	ZNE	05 10								
		EMAX	ZE	24				19 21				12 21
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
AUG 30	11	55	50.5	30.4S 178.6W	161KM	4.8 KERMADEC IS					WEL	12
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	GNZ	EP	Z	11 57 49								
		ES	Z	59 29								
	KRP	EP	ZNE	11 57 55								
		ES	ZNE	59 40								
	MNG	EP	Z	11 58 18								
		ES	Z	12 00 19								
	CIZ	ES	ZNE	12 01 22								
	MJZ	EP	ZNE	11 59 25								
		ES	ZNE	12 02 10								
	MSZ	EP	Z	11 59 39								
		ES	Z	12 02 50								

	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
AUG 30	13	33	26.4	45.4N 151.5E	33KM	5.5 KURILE IS					WEL	89
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	13 46 12								
	KRP	E	ZNE	13 46 20								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
AUG 31	10	47	30.4	18.7S 169.1E	234KM	4.9 NEW HEBRIDES					WEL	23
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	10 51 45								
	MNG	IP	Z	10 52 09.8 U								
AUG 31	KRP	EP	Z	14 13 16								
	GNZ	ES	Z	14 15 08								
	MNG	EP	Z	14 13 39								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
AUG 31	18	53	25.2	17.5S 175.2W	277KM	5.4 TONGA					WEL	25
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	ECZ	EP	Z	18 57 49								
		ES	Z	19 01 27								
	KRP	P	ZNE	18 57 58		0.30						6.7
		ES	ZNE	19 01 48								
	WEL	EP	ZNE	18 58 26		-0.39						6.1
		ES	ZNE	19 02 31								
	MSZ	EP	Z	18 59 14								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
SEP 01	03	31	10.5	5.6S 147.2E	182KM	5.6 E NEW GUINEA					WEL	43
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	IP	ZNE	03 38 49.9 U		-0.19						6.3
		E(SCP)	Z	44 10								
	MNG	IP	Z	03 38 54.2 U								
	GNZ	P	Z	03 38 55								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
SEP 02	05	37	50.0	29.1S 179.0W	307KM	4.6 KERMADEC IS					WEL	13
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	P	ZNE	05 40 04								
	MNG	P	Z	05 40 26								
		ES	Z	42 33								
	CIZ	EP	ZNE	05 41 09								
		ES	ZNE	43 53								
	MSZ	EP	Z	05 41 43								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
SEP 03	01	23	19.6	7.8S 147.1E	139KM	5.4 W NEW GUINEA					WEL	41
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	IP	ZNE	01 30 39.6 D		-1.17						5.6
	MNG	IP	Z	01 30 53.0 U								
	MSZ	EP	Z	01 30 54								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
SEP 03	06	22	45.8	19.0S 178.0W	547KM	4.1 FIJI					WEL	23
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	ZNE	06 26 38								
	MNG	EP	Z	06 26 54								
	H	M	S	EPICENTRE	DEPTH	MAG					DIST	(DEG)
SEP 03	21	07	30.8	10.6S 79.8W	38KM	6.5 OFF COAST OF PERU					WEL	94
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE MAG
	WEL	EP	ZNE	21 20 51								
		E(SKS)	E	31 27								
		ES	NE	32 05								
		EL	ZNE	50								
	KRP	EP	ZNE	21 20 52								

		ES	NE	32 07									
	MSZ	EP	Z	21 21 13									
	ROX	E(SKS)	E	21 31 33									
		EL	E	53									
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 04	00	41	07.1	31.1S	177.2W	33KM	4.6 KERMADEC IS						AZIMUTH 12
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	GNZ	EP	Z	00	44 29								
	MNG	EP	Z	00	44 45								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 04	03	51	58.9	31.4S	179.4W	231KM	5.5 KERMADEC IS						AZIMUTH 11
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	KRP	EP	ZNE	03	53 48.5								
	MNG	EP	Z	03	54 11.7								
		ES	Z		55 56								
	MSZ	EP	Z	03	55 33								
		ES	Z		58 22								
	MNW	EP	Z	03	55 46								
		ES	Z		58 51								
	CIZ	EP	ZNE	03	54 58								
		ES	ZNE		57 11								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 04	13	00	11.3	4.7S	153.2E	70KM	4.6 NEW IRELAND						AZIMUTH 41
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	KRP	EP	Z	13	07 32								
	MNG	EP	Z	13	07 49								
	MSZ	EP	Z	13	07 57								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 04	16	01	32.7	8.8S	157.7E	33KM	5.2 SOLOMON IS						AZIMUTH 36
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	KRP	EP	Z	18	08 13								
	MNG	EP	Z	18	08 27								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 05	03	39	55.9	4.4S	144.8E	27KM	5.1 NEAR E NEW GUINEA						AZIMUTH 45
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	MNG	EP	Z	03	48 12								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 05	05	17	39.1	23.9S	179.7W	445KM	4.6 S OF FIJI						AZIMUTH 18
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	MNG	EP	Z	05	21 14								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 06	04	44	55.9	6.5S	129.7E	139KM	5.2 BANDA SEA						AZIMUTH 93
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	MSZ	EP	Z	04	53 42								
	MNG	EP	Z	04	53 58								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 06	07	30	10.8	14.7N	93.6E	33KM	5.6 ANDAMAN IS						AZIMUTH 95
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	KRP	EP	ZNE	07	43 21								
	MNG	EP	Z	07	43 22								
	MSZ	EP	Z	07	43 06								
	MNW	EP	Z	07	43 06								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 06	19	44	07.9	5.2S	151.7E	74KM	5.1 NEW BRITAIN						AZIMUTH 41
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	KRP	EP	Z	19	51 30								
	MNG	EP	Z	19	51 47								
	MSZ	EP	Z	19	51 54								

SEP 06	KRP	E(P)	Z	20	02 19								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 06	20	48	43.8	15.0S	167.5E	142KM	4.1 NEW HERRIDES						AZIMUTH 27
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	MNG	EP	Z	20	54 08								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 07	07	12	36.6	2.7N	124.3E	274KM	5.8 CELEBES SEA						AZIMUTH 53
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	MSZ	P	Z	07	22 23								
		S	Z		30 22								
	MNW	EP	Z	07	22 27								
		ES	Z		30 27								
	KRP	P	ZNE	07	22 31								
		ES	ZNE		30 37								
	MNG	EP	Z	07	22 37								
		ES	Z		30 46								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 07	07	59	22.6	30.4S	177.5W	36KM	4.6 KERMADEC IS						AZIMUTH 13
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	KRP	EP	Z	08	01 37								
	MNG	EP	Z	08	01 59								
		ES	Z		03 55								
	MSZ	E(P)	Z	08	03 30								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 07	09	34	12.1	30.5S	177.6W	27KM	4.7 KERMADEC IS						AZIMUTH 12
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	KRP	EP	ZNE	09	36 27								
		ES	ZNE		38 15								
	MNG	EP	Z	09	36 50								
		ES	Z		38 51								
	MSZ	EP	Z	09	38 20								
	MNW	EP	Z	09	38 30								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 07	11	08	13.2	31.3S	179.6E	430KM	5.1 KERMADEC IS						AZIMUTH 11
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	ECZ	P	Z	11	09 53								
		ES	Z		11 11								
	GNZ	P	Z	11	10 01								
	KRP	P	ZNE	11	10 05								
		S	ZNE		11 36								
	TUA	P	Z	11	10 06								
	CNZ	P	Z	11	10 16								
	TNZ	EP	Z	11	10 23								
	MNG	P	Z	11	10 26								
	WEL	P	ZNE	11	10 37								
		S	ZNE		12 29								
	CIZ	EP	ZNE	11	11 06								
		S	ZNE		13 47								
	MJZ	EP	ZNE	11	11 21								
		ES	ZNE		13 49								
	MSZ	EP	Z	11	11 37								
	MNW	EP	Z	11	11 49								
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)
SEP 08	03	36	13.4	6.9S	129.4E	107KM	5.6 BANDA SEA						AZIMUTH 53
				H	M S	DIR	LOG A/T	AZ	TZ	AN TN	AZ TE	MAG	
	MNW	EP	Z	03	45 01								
	MJZ	EP	ZNE	03	45 09								
	MNG	EP	Z	03	45 19								

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 08	22 37 39.5	12.2N 140.8E	27KM	5.3 W CAROLINE IS	WEL 62
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		ZNE 22 47 43			
MNG EP		Z 22 47 55			
MSZ EP		Z 22 47 58			
MNW EP		Z 22 48 00			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 09	08 37 50.4	18.0N 145.5E	241KM	5.2 MARIANA IS	WEL 55
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP P		ZNE 08 47 49.8			
MNG P		Z 08 48 02			
MSZ P		Z 08 48 10			
MNW EP		Z 08 48 16			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 09	10 05 44.1	27.7S 63.1W	578KM	5.8 ARGENTINA	WEL 93
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		Z 10 19 07			
E		Z 21 10			
WEL E		Z 10 21 03			
E		NE 28 35			
E		Z 30 34			
MSZ EP		Z 10 19 04			
E		Z 21 09			
MNW EP		Z 10 19 02			
E		Z 21 07			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 09	14 43 57.7	12.3N 140.7E	33KM	5.4 W CAROLINE IS	WEL 62
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		Z 14 53 56			
MNG EP		Z 14 54 12			
MSZ EP		Z 14 54 14			
SEP 09 WEL EP		Z 16 58 49			
E(S)		NE 17 04 22			
ELQ		ZNE 06 24			
ELR		Z 07 47			
KRP EP		ZNE 16 59 04			
MSZ EP		Z 16 59 13			
SEP 09 MNW E(P)		Z 21 51 01			
SEP 10 MSZ EP		Z 02 03 28			
WEL E(P)		Z 02 04 06			
EL		Z 10			
MNG EP		Z 02 04 17			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 11	01 22 43.7	21.4S 173.8E	32KM	4.8 NEW HEBRIDES	WEL 20
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		ZNE 01 26 38			
MNG EP		Z 01 27 08			
MSZ EP		Z 01 27 57			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 11	04 37 16.4	21.4S 169.7E	11KM	5.0 LOYALTY IS	WEL 20
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		ZNE 04 41 25			
MNG EP		Z 04 41 51			
MSZ EP		Z 04 42 29			
MNW EP		Z 04 42 40			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 11	06 52 11.5	21.4S 174.0E	15KM	4.8 NEW HEBRIDES	WEL 20
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		ZNE 06 56 07		-0.94	5.2
MNG EP		Z 06 56 38			
MSZ EP		Z 06 57 27			
MNW EP		Z 06 57 40			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 11	09 53 54.2	32.9S 178.5W	35KM	4.4 S OF KERMADEC IS	WEL 10
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		ZNE 09 55 35			
MNG EP		Z 09 56 00			
ES		Z 57 35			
MSZ EP		Z 09 57 31			
MNW EP		Z 09 57 46			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 11	10 14 30.4	21.3S 173.7E	34KM	4.8 NEW HEBRIDES	WEL 20
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		Z 10 18 35			
MNG EP		Z 10 18 50			
MSZ EP		Z 10 19 42			
MNW EP		Z 10 19 51			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 11	11 14 23.7	18.7S 169.2E	245KM	5.0 NEW HEBRIDES	WEL 23
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		Z 11 18 33			
TUA EP		Z 11 18 53			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 11	21 21 02.8	17.6S 173.1W	33KM	4.2 TONGA	WEL 26
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		Z 21 26 06			
MNG EP		Z 21 26 21			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 12	11 51 51.2	22.0S 174.2E	33KM	4.4 LOYALTY IS	WEL 19
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
MNG EP		Z 11 56 14			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 12	21 49 47.6	5.5S 151.7E	50KM	5.2 NEW BRITAIN	WEL 41
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		Z 21 57 10			
MNG EP		Z 21 57 26			
MSZ EP		Z 21 57 33			
MNW EP		Z 21 57 39			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 13	00 03 55.8	19.4S 167.5E	17KM	5.0 NEW HEBRIDES	WEL 23
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
KRP EP		Z 00 10 30			
MNG EP		Z 00 10 55			
MSZ EP		Z 00 11 22			
MJZ EP		ZNE 00 11 19			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
SEP 13	00 15 02.4	19.4S 167.7E	33KM	4.3 NEW HEBRIDES	WEL 23
		H M S	DIR	LOG.A/T AZ TZ AN TN	AE TE MAG
MSZ EP		Z 00 20 33			

	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 13	00 39 15.0	19.3S 167.5E	10KM	4.6 NEW HEBRIDES		WEL 23
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 00 44 15				
	MSZ EP	Z 00 44 45				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 13	18 41 15.4	52.7N 172.5E	34KM	5.7 ALEUTIAN IS		WEL 94
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 18 54 09				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 13	19 57 47.9	56.0S 27.4W	148KM	5.3 S SANDWICH IS		WEL 91
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MSZ P	Z 20 09 33				
	MJZ EP	ZNE 20 09 36				
	MNG P	Z 20 09 50				
	KRP P	Z 20 10 03				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 14	01 44 58.4	30.0S 179.3W	344KM	KERMADEC IS		WEL 12
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	GNZ EP	Z 01 47 07				
	ES	Z 48 38				
	KRP EP	ZNE 01 47 08				
	TUA ES	Z 01 48 52				
	MNG EP	Z 01 47 32				
	ES	Z 49 36				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 14	15 35 17.3	15.4S 167.5E	142KM	4.9 NEW HEBRIDES		WEL 27
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP IP	ZNE 15 40 18.0	DS			
	TUA P	Z 15 40 28.4	U			
	ES	Z 44 40				
	MNG P	Z 15 40 38				
	S	Z 45 03				
	MJZ P	ZNE 15 41 04				
	MSZ EP	Z 15 41 07				
	ROX EP	Z 15 41 15				
	MNW EP	Z 15 41 16				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 14	19 17 18.9	10.2S 161.7E	55KM	4.7 SOLOMON IS		WEL 33
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 19 23 45				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 15	00 28 39.8	35.6N 140.4E	59KM	5.2 NEAR HONSHU JAPAN		WEL 93
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 00 40 46				
	MNG EP	Z 00 40 56				
	MSZ EP	Z 00 41 04				
	MJZ EP	Z 00 41 04				
SEP 15	ECZ ES	Z 23 44 05				
	GNZ ES	Z 23 44 21				
	MNG EP	Z 23 42 58				
	ES	Z 45 19				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	03 40 55.3	2.0S 128.9E	50KM	5.4 CERAM SEA		WEL 57
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 03 50 28				
	MJZ EP	Z 03 50 30				
	KRP EP	ZNE 03 50 31				

	MNG EP	Z 03 50 37				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	08 31 58.4	52.0N 176.4W	65KM	5.4 ALEUTIAN IS		WEL 93
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 08 44 50		-0.65		6.7
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	15 11 15.5	15.7S 167.3E	65KM	4.6 NEW HEBRIDES		WEL 26
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 15 16 20		-0.94		5.4
	MNG EP	Z 15 16 43				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	19 12 13.6	10.1S 161.2E	31KM	5.3 SOLOMON IS		WEL 33
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 19 18 25				
	MNG EP	Z 19 18 43				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 16	23 31 27.3	31.5S 179.8E	377KM	4.0 KERMADEC IS		WEL 11
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	GNZ EP	Z 23 33 14				
	ES	Z 34 40				
	KRP P	ZNE 23 33 20				
	ES	ZNE 34 47				
	TUA EP	Z 23 33 22				
	CNZ EP	Z 23 33 30				
	MNG EP	Z 23 33 40				
	E	Z 35 24				
	ES	Z 31				
	WEL EP	ZNE 23 33 53				
	ES	ZNE 35 47				
	CIZ EP	ZNE 23 34 38				
	ES	ZNE 36 58				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 17	01 21 52.4	18.6S 175.0W	200KM	4.1 TONGA		WEL 24
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 01 26 23				
	MNG EP	Z 01 26 45				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 18	15 33 06.5	5.9S 146.6E	39KM	5.5 E NEW GUINEA		WEL 43
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP P	ZNE 15 40 49				
	MSZ EP	Z 15 41 03				
	MNG IP	Z 15 41 04.8	U			
	EP	Z 47 27				
	MJZ EP	ZNE 15 41 07				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 18	19 13 52.5	20.7S 178.4W	562KM	4.0 FIJI		WEL 21
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	KRP P	ZNE 19 17 32				
	GNZ EP	Z 19 17 32				
	MNG EP	Z 19 17 51				
	ES	Z 21 00				
	H M S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 19	00 43 31.1	24.7S 177.3W	139KM	4.7 S OF FIJI		WEL 18
		H M S	DIR	LOG•A/T	AZ TZ AN TN	AE TE MAG
	MNG EP	Z 00 49 13				
	ES	Z 52 03				
	WEL ES	ZNE 00 52 28				
	MSZ EP	Z 00 50 55				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 19	10	55	08.6	43.0N 145.2E	84KM	5.9 HOKKAIDO JAPAN		WEL 98
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	KRP	P		ZNE 11 08 38				
	MNG	P		Z 11 08 48.6	D			
	MSZ	P		Z 11 08 54				
	MNW	EP		Z 11 09 04				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 19	12	45	35.3	57.3S 23.4W	33KM	5.7 S SANDWICH IS		WEL 80
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	MNW	P		Z 12 57 22				
	MSZ	P		Z 12 57 22				
	MNG	P		Z 12 57 46				
	KRP	P		ZNE 12 57 59				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 19	19	01	47.5	1.6S 100.5E	83KM	5.0 S SUMATRA		WEL 77
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	MSZ	EP		Z 19 13 22				
	MJZ	EP		ZNE 19 13 19				
	MNG	EP		Z 19 13 36				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	09	39	15.2	49.8S 163.4E	30KM	6.1 AUCKLAND IS		WEL 12
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	WPZ	EP		Z 09 40 18.7				
		ES		Z 41 10				
	MNW	EP		Z 09 40 21				
	MSZ	EP		Z 09 40 35				
	MJZ	EP		ZNE 09 40 56				
	WEL	EP		ZNE 09 41 55				
		E(S)		ZNE 44 13				
	KRP	EP		ZNE 09 42 34				
		EL		ZNE 47				
	CIZ	EP		ZNE 09 42 38				
		ES		ZNE 45 17				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	10	30	53.4	49.8S 163.4E	19KM	5.8 AUCKLAND IS		WEL 12
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	WPZ	EP		Z 10 31 58				
		ES		Z 32 50				
	MJZ	EP		ZNE 10 32 35				
	WEL	EP		ZNE 10 33 36				
	KRP	EP		ZNE 10 34 14				
	CIZ	EP		ZNE 10 34 19				
		ES		ZNE 36 54				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	10	37	20.3	20.8S 169.8E	129KM	5.9 NEW HEBRIDES		WEL 21
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	ECZ	EP		Z 10 41 29				
		ES		Z 45 00				
	KRP	P		ZNE 10 41 20.9	D			
	GNZ	P		Z 10 41 34		0.00		5.2
		ES		Z 45 13				
	TUA	IP		Z 10 41 34.4	U			
	MNG	IP		Z 10 41 47.0	D			
	WEL	P		ZNE 10 41 52				
		S		ZNE 45 38				
	MJZ	P		ZNE 10 42 17				
	MSZ	EP		Z 10 42 23				
SEP 20	MJZ	EP		ZNE 11 11 02				
		ES		ZNE 12 19				

	MSZ	P	Z	11 10 34				
		S	Z	11 43				
	MNW	IP	Z	11 10 20	D			
		ES	Z	11 39				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	12	05	52.7	49.8S 163.8E	33KM	5.2 AUCKLAND IS		WEL 11
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	MSZ	EP		Z 12 08 15				
	MJZ	EP		Z 12 08 36				
	MNG	EP		Z 12 09 44				
	KRP	EP		ZNE 12 10 18				
	CIZ	EP		ZNE 12 10 53				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	13	46	16.7	49.7S 164.1E	33KM	AUCKLAND IS		WEL 11
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	MNW	EP		Z 13 47 24				
		ES		Z 48 16				
	MSZ	EP		Z 13 47 39				
		E		Z 48 35				
		E(S)		Z 50				
	MJZ	EP		ZNE 13 48 02				
	MNG	EP		Z 13 49 14				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	14	04	19.3	49.7S 164.0E	33KM	AUCKLAND IS		WEL 11
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	MNW	EP		Z 14 05 28				
		ES		Z 06 26				
	MSZ	P		Z 14 05 43				
		ES		06 50				
	MNG	EP		Z 14 07 14				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	14	58	15.4	49.7S 163.6E	33KM	5.4 AUCKLAND IS		WEL 11
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	MNW	EP		Z 14 59 22				
	MSZ	EP		Z 14 59 37				
	MNG	EP		Z 15 01 06				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	18	38	25.2	28.6S 175.9W	39KM	5.0 KERMADEC IS		WEL 15
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	KRP	EP		ZNE 18 41 12				
	MNG	EP		Z 18 41 38				
		ES		Z 44 59				
	MJZ	EP		ZNE 18 42 44				
	MSZ	EP		Z 18 43 02				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	19	46	42.8	34.1S 14.6W	33KM	5.2 TRISTAN DA CUNHA		WEL 104
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	KRP	E(P)		ZNE 19 59 10				
	MNG	E(P)		Z 19 59 31				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	20	15	57.5	49.7S 163.9E	33KM	AUCKLAND IS		WEL 11
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	MNW	EP		Z 20 18 06				
	ROX	EP		Z 20 18 24				
	MNG	EP		Z 20 19 52				

	H	M	S	EPICENTRE	DEPTH	MAG		DIST (DEG)
SEP 20	23	51	22.3	59.2S 148.6E	33KM	W OF MAQUARIE IS		WEL 24
				H M S	DIR	LOG•A/T AZ TZ	AN TN	AE TE MAG
	MSZ	EP		Z 23 55 31				

	MJZ	EP	ZNE	23	55	52							
	MNG	EP	Z	23	56	41							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 22	10	17	59.9	44.5N	149.4E		60KM	5.6 KURILE IS					WEL 98
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	EP	Z	10	30	33							
		E	Z			49							
	MNG	EP	Z	10	30	42							
		E	Z		31	03							
	MSZ	EP	Z	10	30	57							
	ROX	EP	Z	10	31	03							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 22	20	43	26.7	4.6S	153.0E		76KM	5.0 NEW IRELAND					WEL 41
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	P	ZNE	20	55	49		-1.07					5.8
	MNG	IP	Z	20	56	07.2 U							
	MJZ	EP	Z	20	56	14							
	MNW	EP	Z	20	56	20							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 23	03	22	59.7	17.7S	178.7W		567KM	5.0 FIJI					WEL 24
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	EP	Z	03	27	02							
	MNG	E(P)	Z	03	27	24							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 23	06	55	43.6	21.8S	179.7W		595KM	5.4 FIJI					WEL 20
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	P	ZNE	07	00	06							
		ES	Z		02	53							
	MNG	EP	Z	07	00	26							
		ES	Z		03	22							
	WEL	EP	ZNE	07	00	34							
		ES	ZNE		03	36							
	MNW	IP	Z	07	01	30.4							
	MJZ	EP	ZNE	07	01	31							
	ROX	EP	Z	07	01	24							
	CIZ	ES	ZNE	07	05	29							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 23	07	02	03.3	49.7S	164.0E		15KM	5.7 AUCKLAND IS					WEL 11
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	MNW	P	Z	07	03	11.9							
	WEL	EP	Z	07	04	47							
	MNG	EP	Z	07	04	57							
	KRP	EP	ZNE	07	05	23							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 23	07	39	47.8	22.1S	179.6W		600KM	4.6 S OF FIJI					WEL 20
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	P	ZNE	07	43	11							
		ES	NE		45	58							
	MNG	EP	Z	07	43	31							
		ES	Z		46	30							
	WEL	IP	ZNE	07	43	39							
		ES	ZNE		46	43							
	MNW	EP	Z	07	44	35							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 23	22	43	16.6	29.6S	179.3W		347KM	4.5 KERMADEC IS					WEL 13
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	GNZ	EP	Z	22	45	23							
	KRP	EP	ZNE	22	45	27							
	TUA	EP	Z	22	45	30							
		ES	Z		47	14							

	MNG	EP	Z	22	45	50							
		ES	Z		47	55							
	WEL	EP	ZNE	22	46	01							
		ES	ZNE		48	14							
	CIZ	ES	ZNE	22	49	06							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 24	00	57	09.7	4.5N	128.6E		33KM	5.3 N OF HALMAHERA					WEL 52
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	EP	Z	01	07	18							
	MNW	EP	Z	01	07	22							
	MNG	EP	Z	01	07	27							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 24	01	10	15.3	29.6S	177.8W		85KM	4.6 KERMADEC IS					WEL 13
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	MNG	EP	Z	01	13	01							
	WEL	ES	ZNE	01	15	23							
	MJZ	EP	ZNE	01	14	05							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 24	06	10	16.2	2.8N	128.5E		226KM	5.4 HALMAHERA					WEL 51
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	MNW	P	Z	06	19	58							
	KRP	P	ZNE	06	19	58		-0.62					5.1
	MJZ	P	ZNE	06	20	01							
	MNG	IP	Z	06	20	05.8 U							
SEP 24	MNG	E(P)	Z	06	49	33							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 24	07	48	36.4	6.2S	146.9E		84KM	5.1 E NEW GUINEA					WEL 43
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	EP	ZNE	07	56	13							
	MNG	IP	Z	07	56	27.9 U							
	MJZ	EP	ZNE	07	56	30							
	MNW	EP	Z	07	56	33							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 25	04	38	26.2	15.1S	173.4W		63KM	5.0 TONGA					WEL 28
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	P	ZNE	04	43	44							
	MNG	EP	Z	04	44	06							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 25	06	18	26.1	20.3S	177.7W		462KM	4.2 FIJI					WEL 22
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	P	ZNE	06	22	14							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 25	07	00	45.2	9.9N	126.6E		31KM	5.3 PHILIPPINE IS					WEL 67
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	KRP	EP	Z	07	11	31							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 25	09	11	37.7	17.0N	145.4E		252KM	5.1 MARIANA IS					WEL 64
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	MNG	EP	Z	09	21	40							
	H	M	S	EPICENTRE			DEPTH	MAG					DIST (DEG)
SEP 25	13	03	06.9	3.6N	126.6E		78KM	5.3 TALAUD IS					WEL 53
				H	M	S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE MAG
	MNW	EP	Z	13	13	15							
	KRP	EP	Z	13	13	17							
	MJZ	EP	Z	13	13	19							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 25	17 03 54.2	3.2N 125.5E	116KM	5.3 TALAUD IS					MEL 63
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 17 14 00							
	MNW EP	Z 17 14 00							
	MJZ EP	Z 17 14 04							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 26	11 11 23.7	33.6S 70.5W	84KM	5.8 CHILE-ARGENTINA					MEL 94
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	MJZ EP	ZNE 11 23 52							
	E	ZNE 24 14							
	MNG EP	Z 11 23 49							
	KRP EP	ZNE 11 23 54							
	E	Z 24 18							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 26	16 11 23.9	30.0S 71.5W	55KM	NEAR COAST CHILE					MEL 96
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 16 24 01							
	MNW EP	Z 16 24 02							
	MJZ EP	ZNE 16 24 05							
	KRP EP	ZNE 16 24 09							
	ES	ZNE 34 51							
SEP 26	KRP EP	Z 16 40 14							
	MNG EP	Z 16 40 42							
	MJZ EP	Z 16 41 19							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 26	17 05 55.0	7.1S 155.8E	94KM	5.7 SOLOMON IS					MEL 38
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	ZNE 17 12 45							
	E	Z 15 13							
	MNG IP	Z 17 13 03.2 U							
	MJZ EP	Z 17 13 13							
	E	Z 15 23							
	MNW EP	Z 17 13 20							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 27	02 13 26.3	19.8S 177.9W	573KM	4.1 FIJI					MEL 22
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	ZNE 02 17 14							
	MNG EP	Z 02 17 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 27	09 32 38.8	11.4S 166.3E	92KM	4.5 SANTA CRUZ IS					MEL 31
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZNE 09 38 19							
	MNG EP	Z 09 38 40							
	MSZ EP	Z 09 39 08							
	MNW EP	Z 09 39 05							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 28	00 25 51.5	16.0S 175.2W	283KM	4.5 TONGA					MEL 27
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	ZNE 00 31 37							
	MNG EP	Z 00 31 56							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 28	04 55 56.3	6.5S 153.4E	44KM	5.9 NEW BRITAIN					MEL 39
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	ZNE 05 04 04							
	E	Z 06 24							
	MNG P	Z 05 04 20							
	MJZ EP	ZNE 05 04 32							

	MNW EP	Z 05 04 35							
	CIZ EP	ZNE 05 05 13							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 29	20 13 02.5	14.2S 168.4E	41KM	4.1 NEW HEBRIDES					MEL 28
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 20 18 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 29	22 21 14.7	49.9S 163.5E	33KM	5.1 AUCKLAND IS					MEL 12
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW EP	Z 22 22 26							
	MSZ P	Z 22 22 42							
	MNG EP	Z 22 24 11							
	KRP EP	ZNE 22 24 43							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
SEP 30	07 57 19.9	28.9N 129.9E	32KM	5.5 RYUKYU IS					MEL 81
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 08 09 25							
	MNG EP	Z 08 09 34							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 01	02 36 23.7	22.7S 173.2E	33KM	4.4 LOYALTY IS					MEL 19
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZNE 02 40 07							
	E*P?	ZNE 19							
	GNZ EP	Z 02 40 18							
	E*P?	Z 29							
	MNG EP	Z 02 40 36							
	EP	Z 47							
	MJZ E*P?	Z 02 41 24							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 01	11 56 02.8	15.1S 174.1W	90KM	4.6 TONGA					MEL 28
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ EP	Z 12 01 14							
	KRP EP	ZNE 12 01 16		-1.16					5.2
	MNG EP	Z 12 01 37							
	MJZ EP	ZNE 12 02 21							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 02	00 12 52.8	21.0S 178.8W	604KM	5.2 FIJI					MEL 21
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ EP	Z 00 16 26							
	I	Z 28.5 U							
	ES	Z 19 18							
	KRP IP	ZNE 00 16 26.4 D		0.05					6.4
	MEL EP	ZNE 00 16 55.2		-0.02					6.5
	E*S?	ZNE 19 30							
	ES	ZNE 20 06					1	16	
	ESCS	E 27 03							
	MJZ IP	ZNE 00 17 28.5 D							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 02	14 54 08.4	6.7S 153.4E	27KM	5.3 NEW BRITAIN					MEL 39
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZNE 15 01 17							
	EPC?	Z 03 48							
	GNZ EP	Z 15 01 30							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 03	04 54 47.3	1.0S 149.5E	17KM	4.6 NEW IRELAND					MEL 46
		H M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	ZNE 05 02 55							
	GNZ EP	Z 05 03 09		-1.16					5.7
	MSZ EP	Z 05 03 14							

	MJZ EP	ZNE 05 03 16									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 03	14 46 46.7	21.9S 179.5W	553KM	4.7 FIJI						REL	28
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	Z 14 50 13									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 03	16 24 41.0	31.4S 179.1W	358KM	4.3 KERMADEC IS						REL	11
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	Z 16 26 29									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 03	18 16 03.2	10.9N 85.9W	21KM	5.8 COSTA RICA						REL	104
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	WEL ESP	ZE 18 44 28									
	ESS	ZE 49 30									
	ELR	ZNE 19 04					4 20		1 20	3 20	
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 03	19 50 25.9	52.6N 172.5E	21KM	5.1 ALEUTIAN IS						REL	94
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	Z 20 03 26									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 04	06 18 33.2	3.3S 139.7E	52KM	5.2 W NEW GUINEA						REL	49
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	ZNE 06 27 06		-1.00							5,9
	MSZ EP	Z 06 27 10									
	MJZ EP	ZNE 06 27 15									
	WEL EP	ZNE 06 27 16		-0.87							6,1
	GNZ EP	Z 06 27 21		-0.88							6,1
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 04	17 21 20.7	5.7S 153.9E	52KM	NEW IRELAND						REL	40
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	ZNE 17 28 33									
	ES	ZNE 34 27									
	WEL EP	ZNE 17 28 51		-0.48		6 10					6,3
	E(*PP)	ZNE 59				36 12					
	EPP	ZNE 30 20				26 15					6,7
	ES	ZNE 34 52					45 19	52 14			7,1
	ESS	ZNE 38 09					216 25	209 28			
	ELR	ZNE 40				129 22	101 20	83 20			
	MSZ EP	Z 17 28 59									
	E(*PP)	Z 29 05									
	ES	Z 35 11									
	ROX EP	ZNE 17 29 10		-0.69		22 10					6,5
	EPP	ZNE 31 13									
	ES	ZNE 35 24					77 27	66 27			7,1
	ESS	ZNE 38 44					157 30	108 25			
	ELR	ZNE 41				63 18	60 21	62 19			
	CIZ EP	ZNE 17 29 42									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 04	21 23 08.2	6.6S 130.0E	144KM	5.0 BANDA SEA						REL	53
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MNG EP?	Z 21 34 11									
	E*PP	Z 50									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 04	23 14 32.6	5.9S 153.8E	76KM	NEW IRELAND						REL	40
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	Z 23 21 40		-1.52							5,3
	MNG EP	Z 23 21 57									
	MJZ EP	Z 23 22 06									

	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 05	02 12 31.9	8.6N 126.8E	57KM	5.2 PHILIPPINE IS						REL	56
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MJZ EP	ZNE 02 23 12									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 05	04 07 41.9	5.9S 154.0E	75KM	4.6 SOLOMON IS						REL	40
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP IP	ZNE 04 14 20.6	U	-0.94							5,9
	WEL EP	ZNE 04 15 10		-0.92							5,9
	MJZ EP	ZNE 04 15 16									
	MNW EP	Z 04 15 23									
	CIZ EP	Z 04 15 59									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 05	12 35 38.8	5.2S 154.1E	100KM	5.2 SOLOMON IS						REL	40
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	Z 12 42 48									
	E	Z 43 20									
	MNG EP	Z 12 43 06									
	MJZ EP	ZNE 12 43 15									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 05	17 39 54.6	8.5S 107.1E	18KM	4.6 JAVA						REL	68
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MJZ EP	ZNE 17 50 35									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 05	17 58 36.6	6.3S 153.0E	54KM	5.0 NEW BRITAIN						REL	40
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MNG EP	Z 18 06 01									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 05	18 27 38.3	22.0S 177.0W	214KM	4.9 S OF FIJI						REL	20
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	ZNE 18 31 25		-1.42							4,9
	MNG EP	Z 18 31 47									
	MJZ EP	ZNE 18 32 41									
	MNW EP	Z 18 33 00									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 05	19 48 30.0	6.2S 154.9E	45KM	4.8 SOLOMON IS						REL	39
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	Z 19 55 35									
	GNZ P	Z 19 55 49.5		-0.98							5,8
	MNG EP	Z 19 55 52									
	MJZ EP	Z 19 56 03									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 07	01 14 04.1	29.6S 71.1W	42KM	5.3 N COAST CHILE						REL	87
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	MNG E*PP	Z 01 27 02									
	MJZ E*PP	ZNE 01 27 06									
	KRP EP	ZNE 01 26 54									
	E*PP	ZNE 27 11									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 07	02 38 44.1	16.7S 172.9W	33KM	4.4 SAMOA						REL	27
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	KRP EP	ZNE 02 43 53									
	MNG EP	Z 02 44 10									
	H M S	EPICENTRE	DEPTH	MAG						DIST (DEG)	
OCT 07	10 33 08.2	17.3S 178.9W	563KM	4.9 FIJI						REL	25
		H M S	DIR	LOG.A/T	AZ	TZ	AN	TN		AB TE	MAG
	ONE EP	E 10 37 02									

	KRP	EP	ZNE	10	37	15								
		E	ZNE		38	36								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 07	19	52	07.4	5.6S	153.7E		92KM	5.3 NEW IRELAND						WEL 40
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	IP	ZNE	19	59	15.9	D	-1.21						5,5
	GNZ	P	Z	19	59	29		-0.48						5,3
	MSZ	P	Z	19	59	42.5								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 08	16	59	34.4	9.5S	148.8E		17KM	5.5 E NEW GUINEA						WEL 39
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	ZNE	17	06	47		-1.28						5,5
	WEL	ES	ZNE	17	13	08								
		ELQ	NE		16	30								
		ELR	ZNE		17									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 08	18	08	18.1	5.6S	154.0E		70KM	5.1 SOLOMON IS						WEL 40
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	CRZ	EP	ZE	18	14	54								
	KRP	IP	ZNE	18	15	30.0	U	-0.50						5,4
	WEL	EP	ZNE	18	15	48		-0.54						5,3
		EPP	Z		17	40								
		ES	ZNE		24	43								
		ELR	ZNE		27									
	MJZ	EP	ZNE	18	15	56								
	CIZ	EP	ZNE	18	16	37								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 09	04	04	55.9	1.5N	127.1E		127KM	5.3 HALMAHERA						WEL 61
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	IP	Z	04	14	41.0	D							
	KRP	EP	ZNE	04	14	47								
	MNG	IP	Z	04	14	54								
	GNZ	EP	Z	04	15	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 09	04	55	10.3	60.9S		36.1W	33KM	5.2 SCOTIA SEA						WEL 75
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MSZ	EP	Z	05	06	38								
	KRP	EP	Z	05	07	07								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 09	13	27	56.7	5.7S	154.0E		41KM	4.9 SOLOMON IS						WEL 40
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	IP	ZNE	13	35	10.0	U	-0.93						5,9
	GNZ	EP	Z	13	35	23		-0.38						5,4
	WEL	EP	ZNE	13	35	29		-0.98	6	4				5,7
		EPCP	Z		37	19								
		ES	ZNE		41	22								
		ESS	ZNE		44	40								
		EL	ZNE		47									
	MSZ	EP	Z	13	35	36								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 09	17	21	49.5	21.1S	179.3W		654KM	FIJI						WEL 21
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	CRZ	EIP	ZNE	17	24	59	US							
		ES	ZNE		27	36								
	ECZ	EP	Z	17	25	09								
		ES	Z		28	00								7,1
	WEL	IP	ZNE	17	25	45.1	USW	1.15	32	10				
		E*SP	ZNE		28	20								
		ES	ZNE		56						118	20	132 28	5,4
	CIZ	EIP	ZNE	17	26	09	US							

	ROX	IP	ZNE	17	26	34	U	0.92	19	6				7.1
		E*SP	ZNE			30								
		ES	ZNE		30	18					57	11	52 11	5,3
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 09	18	33	08.2	21.3S	179.3W		619KM	5.1 FIJI						WEL 21
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	CRZ	P	ZNE	18	36	19								
	ECZ	EP	Z	18	36	38								
	KRP	EP	ZNE	18	36	40		-1.22						5,1
	MNW	EP	Z	18	38	03								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 09	21	01	45.2	10.8S	166.1E		132KM	4.4 SANTA CRUZ IS						WEL 31
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	21	07	49								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
JAN 10	03	01	47.7	9.5S	155.1E		33KM	5.3 DENTRECASTEAUX IS						WEL 36
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	03	08	43								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 10	05	15	13.3	5.6S	153.9E		67KM	4.7 NEW IRELAND						WEL 40
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	P	ZNE	05	22	24.6		-1.07						5,8
	GNZ	EP	Z	05	22	38		-0.66						6,2
	MJZ	EP	ZNE	05	22	52								
	WEL	EP	ZNE	05	22	53								
		ELR	ZNE		34									
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 10	06	25	46.3	18.1S	171.8E		63KM	5.2 NEW HEBRIDES						WEL 23
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	ZNE	06	31	17		-0.82						5,4
	GNZ	EP	Z	06	31	27								
	WEL	EP	ZNE	06	31	52								
		ES	ZNE		36	12								
		ELR	ZNE		38						10	20	4 20	1 20
	MJZ	EP	ZNE	06	32	14								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 10	10	59	57.2	6.2S	146.9E		108KM	5.1 E NEW GUINEA						WEL 43
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	11	07	35								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 11	08	20	32.7	5.1S	151.3E		158KM	4.7 NEW BRITAIN						WEL 42
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	MNG	EP	Z	08	28	05								
	MSZ	EP	Z	08	28	10								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 11	13	14	21.2	5.6S	153.8E		69KM	4.5 NEW IRELAND						WEL 40
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	ZNE	13	21	32		-1.35						5,5
	GNZ	EP	Z	13	21	46		-0.79						6,0
	MNG	EIP	Z	13	21	49	D							
	MSZ	EP	Z	13	22	00								
	H	M	S	EPICENTRE			DEPTH	MAG						DIST (DEG)
OCT 11	15	52	16.8	30.4N	142.6E		32KM	5.5 S OF HONSHU JAPAN						WEL 77
				H	M	S	DIR	LOG=A/T	AZ	TZ	AN	TN	AE	TE MAG
	KRP	EP	Z	16	03	56								
	MNG	EP	Z	16	04	07								
	MSZ	EP	Z	16	04	15								

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 11	16	25	00.5	30.5N 142.6E	33KM	5.0 S OF HONSHU JAPAN					WEL 77
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP		Z 16 36 51							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 12	01	22	11.6	5.6S 153.3E	124KM	NEW IRELAND					WEL 40
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		Z 01 29 15							
	MNG	EP		Z 01 29 33							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 12	04	15	49.5	23.1S 179.2W	99KM	4.2 S OF FIJI					WEL 19
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		ZNE 04 20 22		-1.45					4.7
	MNG	EP		Z 04 20 50							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 12	06	33	06.7	21.1S 179.2W	636KM	5.6 FIJI					WEL 21
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	CRZ	P		ZNE 06 38 18.5							
		ES		ZNE 40 59							
	KRP	P		ZNE 06 38 37.0		-0.47					5.7
		ES		ZNE 41 37							
	WEL	P		ZNE 06 39 05.5		-0.22					5.2
		E*S?		Z 41 46							
		ES		ZNE 42 15							
	MSZ	EP		Z 06 39 54							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 12	12	53	46.9	52.2N 152.5E	476KM	5.5 NW OF KURILE IS					WEL 95
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		Z 13 06 05							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 12	18	31	37.1	7.1S 129.8E	45KM	6.2 BANDA SEA					WEL 52
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	CRZ	EP		ZE 18 40 13							
	MSZ	EP		Z 18 40 29							
		*PP		Z 51							
	KPP	IP		ZNE 18 40 40.9	U	-0.74					6.3
		*PP		ZNE 41 02							
	WEL	P		ZNE 18 40 46		-0.63	3	9			6.4
		I*PP		ZNE 41 07							
		ES		Z 47 32							
		ESS		Z 51 50							
		ELR		ZNE 57			13	20			12 20
	GNZ	EP		Z 18 40 55							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 13	07	26	31.5	3.9S 141.9E	38KM	5.3 NEW GUINEA					WEL 47
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		ZNE 07 34 54							
	MNG	EP		Z 07 35 10							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 13	12	39	28.8	4.9S 152.5E	56KM	5.1 NEW BRITAIN					WEL 41
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EIP		ZNE 12 46 53	U	-1.07					5.5
	GNZ	EP		Z 12 47 07		-0.93					5.8
	WEL	IP		ZNE 12 47 11.5	U	-0.87					5.7
	MJZ	EP		ZNE 12 47 18							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 14	01	15	22.2	5.9S 153.5E	101KM	NEW IRELAND					WEL 40
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP		Z 01 22 43							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 14	11	58	11.7	7.6S 156.1E	60KM	5.4 SOLOMON IS					WEL 37
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP		Z 12 05 12							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 14	16	08	11.9	15.9S 167.2E	15KM	5.1 NEW HEBRIDES					WEL 26
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		ZNE 16 13 22							
	MNG	EP		Z 16 13 43							
	MNW	EP		Z 16 14 22							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 14	20	04	25.4	18.9S 169.4E	212KM	3.8 NEW HEBRIDES					WEL 23
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG	EP		Z 20 09 05							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 15	08	00	50.3	11.9N 86.0W	162KM	6.2 NEAR NICARAGUA					WEL 105
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	WEL	EIP		Z 08 14 38	U						
		EI*PP		Z 15 26	D						
		EIPKP		ZNE 18 54	U			5	22		
		IPP		ZNE 19 39	D						
		SKS		ZNE 25 10							
		ESP		ZNE 27 53							
		EPS		ZNE 28 41							
		ESS		ZNE 34 00							
		ELQ		NE 44							
		ELR		ZNE 50			43	20	7	20	21 19
	ROX	E*PP		Z 08 15 42							
		EPK??		Z 19 33							
		EPP		ZNE 20 11							
		ESP		ZNE 28 45							
		EPS		ZNE 30 02							
		ESS		ZNE 34 48							
		ELQ		NE/ 84 07							
		ELR		ZNE 08 51							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 15	16	46	11.4	7.0S 146.6E	120KM	4.8 E NEW GUINEA					WEL 42
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		Z 16 53 41							
	MNG	EP		Z 16 53 54							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 15	23	03	15.0	17.6S 173.2W	40KM	4.6 TONGA					WEL 26
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ	EP		Z 23 08 13		-0.88					5.4
	KRP	IP		ZNE 23 08 14.0	DNE	-0.33					6.0
	MNG	EP		Z 23 08 36							
	MSZ	EP		Z 23 09 42							

	H	M	S	EPICENTRE	DEPTH	MAG					DIST (DEG)
OCT 16	12	29	03.6	21.6S 170.8E	119KM	LOYALTY IS					WEL 20
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP	EP		Z 12 32 00							
	GNZ	IP		Z 12 32 14	D	-1.09					5.1
	MNG	IP		Z 12 32 27	D						

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 16	16 58 02.0	1.7N 127.5E	120KM	5.6 HALMAHERA	MEL 51
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MSZ IP	Z 17 07 48.5	U		
	KRP EP	ZNE 17 07 54		-1.11	5.8
	MNG EP	Z 17 08 01			
	GNZ EP	Z 17 08 07		-0.98	6.1

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 16	20 15 56.1	17.3S 66.6E	18KM	5.2 MASCARENE IS	MEL 92
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 20 29 36			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 17	13 43 50.2	6.6S 128.8E	225KM	5.0 BANDA SEA	MEL 53
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MSZ IP	Z 13 52 32.3			
	MJZ IP	Z 13 52 38.7			
	KRP P	Z 13 52 39			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 17	14 08 58.4	21.2S 179.1W	636KM	4.8 FIJI	MEL 21
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	CRZ IP	Z 14 12 09.9	U		
	KRP EP	ZNE 14 12 29			
	GNZ EP	Z 14 12 29			
	ES	Z 15 16			
	MJZ EP	Z 14 13 30			
	MSZ EP	Z 14 13 44			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 17	21 05 22.5	17.2N 121.8E	33KM	5.4 PHILIPPINE IS	MEL 76
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 21 16 59			
	KRP P	ZNE 21 17 01		-1.00	6.1
	MJZ P	ZNE 21 17 04			
	E	Z 23			
	MNG EP	Z 21 17 07			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 18	01 11 44.8	79.8N 2.4E	33KM	5.7 GREENLAND SEA	MEL 141
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP E(PP)	Z 01 34 00			
	MEL E	Z 01 34 39			
	E	Z 53 28			
	EL	Z 02 15			
	MSZ EPKP	Z 01 31 16			
	MNW EPKP	Z 01 31 22			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 18	10 47 22.6	19.2S 177.5W	536KM	4.3 FIJI	MEL 23
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	CRZ P	Z 10 51 00			
	KRP P	Z 10 51 18		-1.12	5.4
	GNZ P	Z 10 51 20			
	MNW P	Z 10 52 41			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 18	23 35 11.0	13.9S 166.5E	87KM	5.0 NEW HEBRIDES	MEL 28
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	CRZ EP	ZNE 23 39 49			
	KRP EP	ZNE 23 40 28			
	MJZ EP	ZNE 23 41 13			
	MSZ EP	Z 23 41 18			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 19	00 44 30.1	2.1N 127.2E	53KM	5.1 MOLUCCA PASSAGE	MEL 51
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 00 54 26			
	MJZ EP	ZNE 00 54 32			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 19	07 27 04.5	13.9S 166.7E	45KM	NEW HEBRIDES	MEL 28
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 07 32 35			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 19	13 08 40.6	17.6S 178.5W	530KM	3.2 FIJI	MEL 24
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 13 12 48			
	MNG EP	Z 13 13 08			
	MSZ EP	Z 13 14 02			
	MNW EP	Z 13 14 10			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 19	14 57 23.7	58.6S 24.8W	33KM	5.3 S SANDWICH IS	MEL 79
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 15 09 12			
	KRP EP	Z 15 09 42		-1.26	5.9

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 19	15 39 10.3	58.7S 25.0W	33KM	5.1 S SANDWICH IS	MEL 79
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP EP	ZNE 15 51 28		-1.16	6.0
OCT 19	KRP E(P)	Z 15 54 08			
OCT 19	KRP E(P)	Z 15 55 17		-1.31	
OCT 19	KRP E(P)	Z 16 00 00			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 19	16 22 16.8	20.2S 179.0W	567KM	4.2 FIJI	MEL 22
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	CRZ EP	Z 16 25 41			
	KRP P	Z 16 25 51			
	GNZ EP	Z 16 25 52			
	MNG EP	Z 16 26 10			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 19	19 20 57.7	58.7S 24.9W	33KM	5.4 S SANDWICH IS	MEL 79
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	KRP EP	Z 19 33 16			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 20	00 19 57.2	21.4S 170.1E	130KM	LOYALTY IS	MEL 20
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MNG EP	Z 00 24 18			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 20	01 02 43.8	58.6S 25.0W	12KM	5.6 S SANDWICH IS	MEL 79
		H M S	DIR	LOG A/T AZ TZ AN TN	AE TE MAG
	MSZ EP	Z 01 14 34			
	MJZ EP	ZNE 01 14 38			
	MNG EP	Z 01 14 52			
	KRP E	Z 01 18 22			
	P	ZNE 15 05		-0.75	6.5
OCT 20	KRP E(P)	Z 07 07 14			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 20	15 25 31.3	58.5S 25.3W	33KM	4.6 S SANDWICH IS	WEL 79
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 15 37 50			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 20	15 56 33.4	20.6S 178.1W	556KM	5.0 FIJI	WEL 21
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	ECZ EP	Z 16 00 07			
	GNZ EP	Z 16 00 14			
	KRP IP	ZNE 16 00 15	U	0.06	6.3
	TUA EP	Z 16 00 15			
	CNZ EP	Z 16 00 23			
	MNG EP	Z 16 00 34			
	E	Z 03 53			
	E?	Z 07 06			
	WEL P	Z 16 00 42		-0.20	6.1
	CIZ P	ZNE 16 01 04			
	MSZ EP	Z 16 01 30			
	MNW P	Z 16 01 39		-0.39	6.1

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 21	02 35 12.3	27.7S 71.8W	13KM	5.4 NEAR N CHILE	WEL 98
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNG EP	Z 02 48 03			
	KRP EP	ZNE 02 48 11			
	MSZ EP	Z 02 48 14			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 21	04 59 58.1	73.4N 54.8E	0KM	5.9 NOVAYA ZEMLA	WEL 138
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNG EPKP	Z 05 19 11			
	E	Z 23			
	MSZ EPKP	Z 05 19 16			
	E	Z 29			
	KRP EPKP	Z 05 19 20			
	MNW E	Z 05 19 28			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 21	12 50 38.7	5.9S 149.4E	92KM	D ENTRECASTEAUX IS	WEL 42
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNG EP	Z 12 58 20			
OCT 21	KRP EP	Z 15 40 59			
	MNG EP	Z 15 41 24			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 21	17 01 46.0	11.9N 141.2E	52KM	5.1 W CAROLINE IS	WEL 51
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 17 11 43			
	MNG EP	Z 17 11 55			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 21	18 39 40.3	24.9S 177.3W	107KM	4.8 S OF FIJI	WEL 18
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 18 43 05			
	MNG EP	Z 18 43 27			
	CIZ EP	Z 18 43 58			
	MSZ E(P)	Z 18 44 39			
	MNW EP	Z 18 44 46			
OCT 21	MSZ E(P)	Z 18 45 12			
OCT 21	MJZ EP?	Z 19 40 49			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 22	00 52 10.9	22.3S 65.7W	259KM	5.2 ARGENTINA	WEL 96
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 01 05 14			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 22	04 15 32.1	1.6N 127.2E	138KM	5.1 HALMAHERA	WEL 51
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNW EP	Z 04 25 19		-1.16	5.9
	KRP EP	Z 04 25 22			
	MJZ P	Z 04 25 23			
	MNG P	Z 04 25 30			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 22	06 30 09.3	2.2S 137.4E	33KM	5.2 W NEW GUINEA	WEL 51
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNG E(P)	Z 06 39 13			
	KRP EP	Z 06 39 33			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 22	14 55 28.4	32.9S 178.5W	9KM	S OF KERMADEC IS	WEL 10
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	CRZ EP	Z 14 57 24			
	MNG EP	Z 14 57 38			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 22	21 31 48.1	6.7S 150.8E	42KM	4.9 NEW BRITAIN	WEL 41
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNG E(P)	Z 21 39 22			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 22	22 18 14.4	18.0S 174.8W	145KM	4.5 TONGA	WEL 25
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP P	ZNE 22 22 56		-1.59	4.8
	MNG EP	Z 22 23 19			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 23	04 57 40.7	15.0S 167.4E	115KM	NEW HEBRIDES	WEL 27
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 05 02 48		-1.20	5.2
	MNG EP	Z 05 03 09			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 23	08 27 06.2	28.9N 139.1E	463KM	5.3 BONIN IS	WEL 77
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP P	Z 08 37 59		-0.86	5.8
	MNG P	Z 08 38 10			
	MNW EP	Z 08 38 18			
OCT 23	KRP EP	Z 09 49 25			
	MNG EP	Z 09 49 40			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 24	01 38 12.7	14.7S 167.2E	169KM	4.3 NEW HEBRIDES	WEL 27
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP E(P)	Z 01 43 44			
	MNW E(P)	Z 01 44 14			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
OCT 24	03 13 26.5	31.3S 179.7W	250KM	5.4 KERMADEC IS	WEL 11
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	ECZ P	Z 03 14 57			
	ES	Z 16 13			
	ONE EP	E 03 15 06			
	GNZ P	Z 03 15 08			
	AUC IP	Z 03 15 12	D		

	CNZ	EP	Z	03	15	24								
	MNG	EP	Z	03	15	37								
		ES	Z		17	24								
	WEL	EP	Z	03	15	47								
	CIZ	EP	Z	03	16	19								
	MJZ	EP	ZNE	03	16	39								
	MNW	EP	Z	03	17	10								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 24	10	51	15.1	3.1S 101.5E	63KM	5.5 S SUMATRA						WEL 75
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	MNW	EP	Z	11 02 28								
	MJZ	EP	ZNE	11 02 38								
		E(*PP)	Z	53								
	MNG	EP	Z	11 02 56								
	CNZ	EP	Z	11 02 56								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 24	17	16	37.2	13.9S 166.8E	38KM	NEW HEBRIDES						WEL 28
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	MNG	E(P)	Z	17 22 15								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 24	23	26	49.4	11.4S 166.1E	70KM	4.1 SANTA CRUZ IS						WEL 31
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	MNG	EP	Z	23 32 54								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 25	00	59	22.6	24.5N 122.2E	65KM	6.0 TAIWAN						WEL 82
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	P	ZNE	01 11 25								
		EPP	ZNE	14 33								
		E	NE	21 30								
		E	NE	22 10								
		E	NE	45								
		E	NE	52								
	MNW	P	Z	01 11 31								
	MJZ	IP	ZNE	01 11 32.8	UE							
		E	Z	15 04								
	WEL	IP	Z	01 11 34	U							
		EP	Z	14 46				7	8			6.7
		IS	E	21 42	U						19 17	7.0
		E	N	22 00								
		ELQ	NE	34								
		ELR	Z	38								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 25	01	31	50.0	18.3S 171.9E	41KM	4.9 NEW HEBRIDES						WEL 23
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	E(P)	ZNE	01 36 23								
	MNG	P	Z	01 36 50								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 25	01	57	23.1	24.3N 122.2E	67KM	5.3 TAIWAN						WEL 91
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	MNG	EP	Z	02 09 32								
	MJZ	EP	ZNE	02 09 33								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 25	08	54	40.0	24.5N 122.2E	60KM	5.2 TAIWAN						WEL 82
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	P	Z	09 06 44								
	MNW	P	Z	09 06 49		-0.96						6.1
	MJZ	EP	Z	09 06 50								
	MNG	P	Z	09 06 51								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 25	09	21	48.6	51.4N 176.5E	33KM	4.8 ALEUTIAN IS						WEL 92
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	EP	Z	09 34 42								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 25	15	09	35.3	50.1S 114.3E	33KM	5.3 S OF AUSTRALIA						WEL 42
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	MJZ	P	ZNE	15 16 53								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 26	00	22	21.6	24.5N 122.2E	63KM	5.6 TAIWAN						WEL 92
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	P	ZNE	00 34 24		-0.76						6.3
	MNW	P	Z	00 34 31		-0.39						6.7
	MJZ	P	ZNE	00 34 32								
	MNG	P	Z	00 34 32								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 26	04	55	38.3	37.3N 29.1E	35KM	5.1 TURKEY						WEL 133
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	EPKP	Z	05 15 34								
	MNG	E(PKP2)	Z	05 16 08								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 26	05	10	02.0	2.3N 121.7E	62KM	5.0 CELEBES SEA						WEL 65
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	MJZ	P	ZNE	05 20 27								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 26	08	48	00.1	7.5S 127.6E	33KM	4.6 BANDA SEA						WEL 54
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	MJZ	EP	Z	08 57 09								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 26	09	28	29.8	6.9S 131.1E	30KM	4.8 TANIMBAR IS						WEL 52
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	EP	Z	09 37 24								
	MJZ	EP	Z	09 37 26								
	MNG	P	Z	09 37 35								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 26	17	22	05.3	0.2S 125.2E	42KM	5.6 MOLUCCA SEA						WEL 61
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	MNW	EP	Z	17 32 00								
	MJZ	EP	Z	17 32 05								
		E(*PP)	Z	20								
	KRP	EP	Z	17 32 07								
	MNG	EP	Z	17 32 13								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 27	10	37	22.6	7.1S 128.1E	33KM	4.6 BANDA SEA						WEL 54
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	EP	Z	10 47 12								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 27	20	41	33.0	24.3N 122.2E	74KM	4.9 TAIWAN						WEL 91
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	EP	Z	20 53 35								
	MJZ	EP	Z	20 53 42								
	MNG	EP	Z	20 53 42								

	H	M	S	EPICENTRE	DEPTH	MAG						DIST (DEG)
OCT 29	02	59	19.5	25.0S 179.9E	548KM	4.4 S OF FIJI						WEL 17
				H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AB TE	MAG
	KRP	EP	Z	03 02 21								

		E	Z	24									
		ES	NE	05 00									
	MNG	EP	Z	03 02 45									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 29	07 15 47.0		22.5S 176.9W		249KM		S OF FIJI						AEL 28
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE	07 19 24									
	MNG	EP	Z	07 19 49									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 29	07 45 04.5		19.3S 175.7E		42KM	5.0 S OF FIJI							AEL 22
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE	07 49 21									
	MNG	EP	Z	07 49 51									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 29	12 37 22.2		60.8S 23.1W		33KM	5.3 S SANDWICH IS							AEL 77
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE	12 49 31									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 29	16 00 00.4		20.5S 173.9W		33KM	4.4 TONGA							AEL 23
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	16 04 31									
	MNG	EP	Z	16 04 54									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 30	02 35 45.1		22.0S 170.1E		32KM	4.4 LOYALTY IS							AEL 28
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	ZNE	02 40 39									
	MNG	P	Z	02 41 07									
	MJZ	P	Z	02 41 38									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 31	01 15 40.8		11.6S 166.0E		63KM	4.4 SANTA CRUZ IS							AEL 31
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE	01 21 23									
	MNG	P	Z	01 21 43									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 31	10 14 43.8		19.7S 177.3E		40KM	5.4 S OF FIJI							AEL 22
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	ZNE	10 18 56									
	MNG	EP	Z	10 19 22									
	MJZ	EP	ZE	10 20 05									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 31	13 04 00.6		6.0S 154.0E		33KM	SOLOMON IS							AEL 40
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP?	Z	13 11 12									
	MNG	EP	Z	13 11 29									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
OCT 31	13 36 02.8		6.0S 154.2E		39KM	SOLOMON IS							AEL 40
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP	Z	13 43 32									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 01	13 03 13.2		17.3S 173.3W		165KM	4.0 TONGA							AEL 26
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	13 08 04		-0.94							5.5
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 01	14 59 58.9		23.0S 176.8W		140KM	5.3 S OF FIJI							AEL 20
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	GNZ	EP	Z	15 03 32									

	KRP	EP?	Z	15 03 41									
	MJZ	EP	Z	15 04 55									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 01	16 30 57.1		48.3N 154.4E		40KM	5.5 KURILE IS							AEL 91
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	16 43 43									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 01	17 20 24.0		20.5S 179.3W		656KM	4.9 FIJI							AEL 21
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	17 23 59									
	GNZ	EP	Z	17 24 02									
	MJZ	EP	Z	17 24 58									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 01	18 55 54.8		4.8S 135.7E		14KM	5.8 W NEW GUINEA							AEL 50
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	19 05 44		-0.47							6.5
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 02	06 51 54.7		30.6S 177.9W		81KM	4.2 KERMADEC IS							AEL 12
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	06 54 07									
	MNG	EP	Z	06 54 26.6									
		ES	Z	56 22									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 03	07 32 50.1		18.7S 169.0E		230KM	5.3 NEW HEBRIDES							AEL 23
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	P	Z	07 37 07		0.05							6.3
		E	N	39 58									
		E	N	40 59									
	MNG	P	Z	07 37 31									
		E	Z	41 18									
	MJZ	EP	Z	07 37 57									
	MNW	EP	Z	07 38 18									
	CIZ	EP	Z	07 38 20									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 03	21 34 15.2		15.3S 167.5E		104KM	4.6 NEW HEBRIDES							AEL 27
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	KRP	EP	Z	21 39 20									
	GNZ	EP	Z	21 39 31									
	MNG	EP	Z	21 39 41									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 03	22 37 49.6		56.1S 27.2W		155KM	5.4 S SANDWICH IS							AEL 81
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP	Z	22 49 50									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 04	10 17 14.7		17.9S 179.0W		573KM	FIJI							AEL 24
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	ECZ	EP	Z	10 21 13									
		ES	Z	24 28									
	GNZ	EP	Z	10 21 18									
		ES	Z	24 39									
	MNG	EP	Z	10 21 38									
		ES	Z	25 07									
	MJZ	EP	Z	10 22 18									
	H M S		EPICENTRE		DEPTH	MAG							DIST (DEG)
NOV 04	13 26 47.7		37.4N 141.6E		46KM	5.7 E HONSHU JAPAN							AEL 94
			H M S		DIR	LOG•A/T	AZ	TZ	AN	TN	AE	TE	MAG
	MNG	EP	Z	13 39 21									

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 04	14 30 37.5	43.5N 144.1E	30KM	5.8 HOKKAIDO JAPAN					WEL 89
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	MNG EP	Z 14 43 29							
	MJZ EP	Z 14 43 38							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 05	04 59 35.8	7.8S 126.9E	33KM	4.9 BANDA SEA					WEL 54
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	MJZ EP	Z 05 07 47							
	MNG EP	Z 05 07 59							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 05	11 20 28.0	10.4S 166.2E	48KM	5.6 SANTA CRUZ IS					WEL 32
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	MNG EP	Z 11 25 02							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 06	21 32 56.5	17.7S 178.7W	549KM	4.5 FIJI					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	CRZ EP	Z 21 36 41.9							
	KRP EP	Z 21 37 02							
	MNG EP	Z 21 37 21							
	MJZ EP	Z 21 38 03							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 07	03 49 17.4	14.9S 173.0W	43KM	5.6 SAMOA					WEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	GNZ EP	Z 03 54 39							
	KRP EP	Z 03 54 39							
	MNG EP	Z 03 54 54							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 07	14 35 15.1	19.0S 169.9E	198KM	3.8 NEW HEBRIDES					WEL 23
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	MNG EP	Z 14 40 56							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 08	06 07 21.4	5.3S 134.0E	33KM	5.9 AROE IS					WEL 51
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	CRZ EP	Z 06 15 22							
	MNW EP	Z 06 16 13		-0.99					6.1
	KRP EP	Z 06 16 19							
	MNG P	Z 06 16 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 08	17 09 27.1	51.1N 178.5E	29KM	5.3 ALEUTIAN IS					WEL 92
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	KRP EP	Z 17 22 21							
	MNG EP	Z 17 22 28							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 08	17 22 32.1	51.1N 178.4E	10KM	5.2 ALEUTIAN IS					WEL 92
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	KRP EP	Z 17 35 28							
	MNG EP	Z 17 35 36							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 09	02 18 45.5	7.2S 123.6E	560KM	5.8 BANDA SEA					WEL 57
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	MJZ EP	Z 02 27 25							
	KRP IP	Z 02 27 33.0 D		-0.74					5.6
	MNG IP	Z 02 27 36.8 D							
	GNZ EP	Z 02 27 46							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 09	02 20 51.0	15.8S 178.4E	84KM	4.8 FIJI					WEL 26
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	KRP EP	Z 02 25 38							
	MNG EP	Z 02 26 03							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 09	18 19 35.0	35.5N 140.1E	68KM	5.3 HONSHU JAPAN					WEL 83
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	KRP P	Z 18 31 40		-0.92					5.1
	MNG P	Z 18 31 51							
	MJZ P	Z 18 31 58							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 09	20 11 32.1	15.1S 173.2W	65KM	4.9 TONGA					WEL 28
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	KRP EP	Z 20 16 49							
	MNG EP	Z 20 17 10							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 10	03 27 33.6	21.5S 175.7W	100KM	4.8 TONGA					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	KRP EP	Z 03 31 36							
	MNG EP	Z 03 32 00							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 10	07 28 53.7	5.9S 113.1E	555KM	5.2 JAVA SEA					WEL 65
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	MNW P	Z 07 38 18							
	MJZ EP	Z 07 38 26							
	MNG P	Z 07 38 41							
	KRP IP	Z 07 38 42.7 D		-1.31					5.3

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 10	13 11 18.1	18.0S 178.5W	592KM	5.0 FIJI					WEL 24
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	CRZ P	Z 13 14 59							
	KRP P	Z 13 15 18							
	GNZ EP	Z 13 15 20							
	MNG EP	Z 13 15 38							
	MJZ EP	Z 13 16 17							
	MSZ EP	Z 13 16 30							
	MNW EP	Z 13 16 41		-0.67					5.9

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 10	16 09 58.0	18.5S 169.9E	119KM	4.7 NEW HEBRIDES					WEL 23
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	MNG P	Z 16 14 53							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 10	19 53 46.6	6.2S 128.7E	270KM	5.2 BANDA SEA					WEL 54
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	MNW P	Z 20 02 27							
	MNG P	Z 20 02 43							
	GNZ EP	Z 20 02 51							
NOV 11	KRP (P)	Z 00 32 24							
	MNG E(P)	Z 00 32 33							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 11	06 39 35.1	24.2S 179.7W	465KM	4.1 S OF FIJI					WEL 18
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AEI TE MAG
	KRP EP	Z 06 42 36							
	GNZ EP	Z 06 42 43							
	ES	Z 45 10							
	MNG EP	Z 06 43 03							

		ES	Z	45 55									
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 12	10 36 52.0	17.2S 172.0W	34KM	5.6 TONGA								AEL 27	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	CRZ P	Z 10 41 46											
	KRP EP	Z 10 42 00											
	E	Z 17											
	ES	Z 46 19											
	MNG EP	Z 10 42 19											
	ES	Z 47 01											
	MSZ EP	Z 10 43 26											
	CIZ EP	Z 10 47 35											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 12	17 24 31.9	22.8S 170.7E	26KM	5.1 LOYALTY IS								AEL 19	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP EP	Z 17 28 16		-1.01									5.1
	GNZ EP	Z 17 28 32		0.88									7.0
	MNG EP	Z 17 28 44											
	MSZ EP	Z 17 29 25											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 12	21 59 50.7	25.2S 177.2W	225KM	4.9 S OF FIJI								AEL 17	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP EP	Z 22 03 00											
	MNG EP	Z 22 03 12											
	E	Z 06 03											
	E	Z 11											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 14	05 29 36.9	5.4S 141.1E	201KM	5.8 E NEW GUINEA								AEL 47	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	CRZ EP	Z 05 35 32											
	KRP EP	Z 05 36 06											
	EPCP	Z 37 59											
	MNG IP	Z 05 36 20 D											
	MSZ IP	Z 05 36 20.3 D											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 14	19 44 45.6	18.0S 175.2W	255KM	4.4 TONGA								AEL 25	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP EP	Z 19 49 18											
	MNG EP	Z 19 49 39											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 15	07 04 15.7	13.5S 165.8E	94KM	4.9 NEW HEBRIDES								AEL 29	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP EP	Z 07 09 36											
	EP	Z 57											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 15	07 35 36.4	6.2N 123.7E	567KM	5.2 PHILIPPINE IS								AEL 66	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	MSZ P	Z 07 46 18											
	KRP EP	Z 07 46 24											
	MJZ P	Z 07 46 25											
	MNG EP	Z 07 46 30											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 15	21 31 51.5	28.7S 71.2W	15KM	6.2 NE ARGENTINA								AEL 87	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	MNG P	Z 21 44 39											
	GNZ P	Z 21 44 39		-0.41									6.9
	MJZ P	Z 21 44 45											
	KRP EP	Z 21 44 47		0.31									7.6
	MSZ EP	Z 21 44 48											

	MJZ E	Z 21 44 59											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 16	13 22 43.8	10.8S 164.4E	33KM	4.8 SANTA CRUZ IS								AEL 32	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	MNG EP	Z 13 29 05											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 16	16 31 03.6	20.7S 178.8W	591KM	4.5 FIJI								AEL 21	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	CRZ P	Z 16 34 22											
	GBZ EP	Z 16 34 28											
	KRP P	Z 16 34 40		-1.12									5.3
	GNZ EP	Z 16 34 42											
	MNG EP	Z 16 35 00											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 16	22 25 19.1	13.9S 171.8E	22KM	4.9 NEW HEBRIDES								AEL 27	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP EP	Z 22 31 37											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 17	01 30 31.1	18.8S 168.7E	102KM	4.8 NEW HEBRIDES								AEL 23	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP EP	Z 01 34 59		-1.26									4.9
	MNG EP	Z 01 35 24											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 17	05 22 44.9	4.8S 152.1E	97KM	5.1 NEW BRITAIN								AEL 42	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	MNG EP?	Z 05 30 17											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 17	09 19 21.0	6.3S 154.9E	60KM	5.1 SOLOMON IS								AEL 39	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP P	Z 09 26 19		-0.95									5.9
	E	Z 32											
	GNZ P	Z 09 26 38											
	E	Z 51											
	MNG P	Z 09 26 40											
	MSZ P	Z 09 26 51											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 17	10 10 04.7	13.7S 167.3E	215KM	4.5 NEW HEBRIDES								AEL 28	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	MNG P	Z 10 15 33											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 18	05 05 59.8	4.9N 125.9E	128KM	5.0 TALAUD IS								AEL 54	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	MSZ EP	Z 05 16 09											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 18	19 39 26.7	19.1S 169.0E	148KM	4.4 NEW HEBRIDES								AEL 23	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP P	Z 19 43 48											
	MNG P	Z 19 44 13											
	H M S	EPICENTRE	DEPTH	MAG								DIST (DEG)	
NOV 18	21 41 58.3	22.1S 179.6W	553KM	4.3 S OF FIJI								AEL 20	
		H M S	DIR	LOG A/T	AZ	TZ	AN	TN	AE	TE		AE TE	MAG
	KRP EP	Z 21 45 22		-0.74									5.7
	GNZ EP	Z 21 45 25											
	TNZ EP	Z 21 45 38											
	MNG EP	Z 21 45 43											
	ES	Z 48 43											

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	09 51 52.6	11.2S 165.5E	19KM	4.6 SANTA CRUZ IS	WEL 31
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNG EP	Z 09 58 07			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	12 06 59.5	36.4N 141.1E	41KM	5.5 OFF HONSHU JAPAN	WEL 93
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 12 19 18			
	MNG EP	Z 12 19 31			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	15 41 09.6	21.5S 179.3W	586KM	4.4 FIJI	WEL 20
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP P	Z 15 44 39		-1.16	5.2
	MNG EP	Z 15 44 58			
	MNW P	Z 15 45 03		-1.08	5.4

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	17 29 20.9	22.6S 170.9E	33KM	5.2 LOYALTY IS	WEL 19
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 17 33 06			
	ES	N 36 22			
	GNZ EP	Z 17 33 21			
	MNG EP	Z 17 33 35			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	17 49 20.3	22.6S 170.8E	38KM	4.5 LOYALTY IS	WEL 19
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 17 53 07			
	MNG EP	Z 17 53 34			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	18 32 18.2	22.6S 171.2E	21KM	4.7 LOYALTY IS	WEL 19
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 18 36 11			
	MNG EP	Z 18 36 34			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	19 05 57.1	22.7S 171.0E	33KM	4.4 LOYALTY IS	WEL 19
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 19 09 43			
	MNG EP	Z 19 10 11			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	20 19 35.0	22.6S 170.7E	33KM	4.3 LOYALTY IS	WEL 19
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 20 23 25			
	MNG EP	Z 20 23 51			
NOV 19	KRP EP	Z 20 29 28			
	MNG EP	Z 20 29 55			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 19	22 53 07.3	22.8S 170.2E	32KM	LOYALTY IS	WEL 19
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNG EP	Z 22 57 19			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 20	02 11 25.3	15.3S 174.3W	33KM	4.8 TONGA	WEL 28
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP P	Z 02 16 42			
	MNG EP	Z 02 17 06			
	MNW EP	Z 02 18 13			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 20	10 43 31.8	32.0N 140.9E	65KM	5.0 S OF HONSHU JAPAN	WEL 79
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 11 00 19		-1.35	5.6
	MNG EP	Z 11 00 31			
	MSZ EP	Z 11 00 37			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	05 05 03.0	18.0S 173.4W	33KM	4.3 TONGA	WEL 25
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 05 10 58			
	MNG EP	Z 05 11 19			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	17 02 25.0	72.7N 8.5E	33KM	5.5 NORWEGIAN SEA	WEL 148
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EPKP	Z 17 21 58			
	E	Z 22 05			
	GNZ EPKP	Z 17 22 01			
	MNG EPKP	Z 17 22 05			
	MSZ EPKP	Z 17 22 14			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	19 59 32.4	12.6S 166.3E	48KM	4.5 SANTA CRUZ IS	WEL 30
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MNG EP	Z 20 05 28			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 21	03 25 33.1	23.2S 171.7E	58KM	4.6 LOYALTY IS	WEL 18
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	CRZ EP	Z 03 28 10			
	KRP EP	Z 03 29 03			
	MNG EP	Z 03 29 35			
	E	Z 44			
	MSZ EP	Z 03 30 20			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 22	15 19 26.8	22.7S 170.9E	42KM	5.2 LOYALTY IS	WEL 19
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	CRZ EP	Z 15 22 13			
	KRP EP	Z 15 23 07		-0.49	5.6
	MNG EP	Z 15 23 38			
	MSZ EP	Z 15 24 22			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 22	16 40 33.0	23.0S 171.0E	22KM	4.7 LOYALTY IS	WEL 19
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	KRP EP	Z 16 44 18		-1.04	5.1
	GNZ EP	Z 16 44 32			
	MNG EP	Z 16 44 45			

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 23	13 42 01.6	80.2N 1.0W	10KM	5.8 N OF SVALBARD	WEL 141
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	MSZ EPKP	Z 14 01 38			
	MNW EPKP	Z 14 01 42			
NOV 23	KRP E(P)	N 15 23 05		-0.01	

	H M S	EPICENTRE	DEPTH	MAG	DIST (DEG)
NOV 24	05 42 14.0	16.4S 177.9W	428KM	5.4 FIJI	WEL 26
		H M S	DIR	LOG A/T AZ TZ AN TW	AB TE MAG
	CRZ EP	Z 05 46 18			
	KRP EP	N 05 46 38			
	ES	N 50 26			
	MNG EP	Z 05 46 58			

E Z 51 07

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 25	10 32 32.7	24.8S 179.4E	567KM	4.7 S OF FIJI					AEL 17
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	CRZ EP	Z 10 35 03							
	KRP EP	Z 10 35 26							
	ES	E 37 50							
	GNZ EP	Z 10 35 26							
	ES	Z 37 53							
	MNG EP	Z 10 35 44							
	E(S)	Z 38 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 25	12 58 48.1	22.6S 170.7E	64KM	4.8 LOYALTY IS					AEL 19
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 13 02 30							
	GNZ EP	Z 13 02 45							
	MNG EP	Z 13 02 57							
	MSZ EP	Z 13 03 38							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 26	00 09 09.8	28.6N 130.0E	33KM	5.7 RYUKYU IS					AEL 81
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 00 20 11		-1.04					6.1
	GNZ EP?	Z 00 20 19							
	MNG EP	Z 00 20 20							
	MSZ EP	Z 00 20 22							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 26	02 53 57.8	8.1S 112.9E	80KM	5.7 JAVA					AEL 64
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MSZ EP	Z 03 03 57							
	COB EP	Z 03 04 12							
	MNG EP	Z 03 04 23							
	E	Z 05 03							
	KRP EP	Z 03 04 23							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 26	10 53 21.9	1.9S 127.8E	8KM	5.5 HALMAHERA					AEL 58
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 11 02 09							
	MNG EP	Z 11 03 15							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 26	11 55 53.3	22.9S 171.4E	58KM	4.7 LOYALTY IS					AEL 19
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 11 59 32							
	GNZ EP	Z 11 59 46							
	MNG EP	Z 12 00 00							
	MSZ EP?	Z 12 00 49							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 26	20 49 37.9	15.3S 167.0E	41KM	LOYALTY IS					AEL 27
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 20 54 50							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 27	00 05 44.5	15.3S 173.6W	173KM	4.3 TONGA					AEL 28
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	GNZ EP	Z 00 11 47							
	KRP EP	Z 00 11 49							
	MNG EP	Z 00 12 10							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 27	05 13 12.6	30.8S 71.0W	62KM	5.4 CENTRAL CHILE					AEL 96
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 05 25 47							
	KRP P	Z 05 25 56		-0.71					5.5

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 27	08 18 42.4	21.3S 174.3W	33KM	5.4 TONGA					AEL 22
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 08 23 03							
	MNG EP	Z 08 23 26							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 27	11 08 08.4	22.8S 170.8E	33KM	4.6 LOYALTY IS					AEL 19
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	Z 11 11 52		-1.21					4.9
	MNG EP	Z 11 12 20							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 27	15 42 25.2	21.2S 174.4W	33KM	4.6 TONGA					AEL 22
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNG EP	Z 15 47 10							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 28	02 35 54.1	32.1N 130.8E	125KM	5.6 KYUSHU JAPAN					AEL 84
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP P	Z 02 48 58							
	E•PP	Z 49 33							
	COB EP	Z 02 49 04							
	MNG EP	Z 02 49 07							
	MSZ EP	Z 02 49 10							
	MNW EP	Z 02 49 14							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 29	13 24 47.0	23.5S 179.8W	528KM	4.8 S OF FIJI					AEL 18
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EP	Z 13 27 58							
	TNZ EP	Z 13 28 16							
	MNG EP	Z 13 28 19							
	ES	Z 31 08							
	MSZ EP	Z 13 29 25							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 30	07 23 51.5	41.5N 20.5E	29KM	6.0 ALBANIA					AEL 161
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	KRP EPKP2	Z 07 44 31							
	WEL EPKP	Z 07 43 48							
	MNG EPKP	Z 07 43 52							
	EPKP2	Z 44 35							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
NOV 30	15 47 44.2	17.9S 178.3W	629KM	4.7 FIJI					AEL 24
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	CRZ EP	Z 15 51 25							
	KRP EP	Z 15 51 44							
	E	NE 55 14							
	E	Z 58 03							
	MNG EP	Z 15 52 04							
	E	Z 58 10							
	MSZ EP	Z 15 52 56							
	MNW EP	Z 15 53 06							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 01	07 19 22.7	2.3N 127.1E	95KM	5.4 MOLUCCA PASSAGE					AEL 61
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
	MNW EP	Z 07 28 19		-0.92					5.3

	KRP	EP	Z	07 28 21										
	MNG	EP	Z	07 28 28										
	TUA	EP	Z	07 28 31										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 01	07	47	42.1	23.5S	179.9E	560KM	4.3 S OF FIJI						WEL 18	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	07 51 11										
		ES	Z	54 03										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 01	08	52	23.1	11.3S	165.7E	85KM	3.9 SANTA CRUZ IS						WEL 31	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	08 58 30										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 01	13	57	02.4	49.5N	154.4E	136KM	5.9 KURILE IS						WEL 82	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	KRP	EP	Z	14 09 41										
	MNG	EP	Z	14 09 52										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 01	16	53	08.8	17.6S	178.5W	504KM	4.2 FIJI						WEL 24	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	16 57 38										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 01	20	38	33.9	6.3S	154.3E	77KM	SOLOMON IS						WEL 39	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	20 45 53										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 03	09	34	09.3	7.3S	128.8E	147KM	5.2 BANDA SEA						WEL 58	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	09 43 11										
DEC 03	MNG	EP	Z	10 59 50										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 03	11	19	02.1	21.5S	173.9E	33KM	4.4 NEW HEBRIDES						WEL 28	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	11 23 23										
DEC 04	MNG	EP	Z	18 52 37										
		ES	Z	54 14										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 04	22	03	21.8	25.1S	179.8E	522KM	4.5 S OF FIJI						WEL 17	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	22 08 38										
		ES	Z	11 21										
DEC 05	MNG	EP	Z	04 42 14										
		ES	Z	45 13										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 05	06	54	48.8	1.7N	127.1E	72KM	5.3 HALMAHERA						WEL 51	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MSZ	EP	Z	07 04 42										
	MNG	EP	Z	07 04 54										
DEC 05	MNG	EP	Z	11 49 21										
		ES	Z	51 00										

	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 05	17	29	31.5	20.8S	178.8W	655KM	4.5 FIJI						WEL 21	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	17 32 20										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 06	04	41	08.6	4.2S	103.0E	81KM	5.4 S SUMATRA						WEL 74	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	MNG	EP	Z	04 52 36										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 06	05	03	40.8	21.3S	178.8W	559KM	5.1 FIJI						WEL 21	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	CRZ	EP	Z	05 06 54										
	ONE	EP	E	05 07 01										
	KRP	P	Z	05 07 14			-0.49							6.0
		ES	E	10 12										
	TNZ	EP	Z	05 07 29										
	MNG	P	Z	05 07 33										
		ES	Z	10 41										
	WEL	P	Z	05 07 42			-0.75							5.8
		ES	E	10 52										
	COB	EP	Z	05 07 45										
		ES	Z	11 02										
	MJZ	EP	Z	05 08 15										
	MSZ	EP	Z	05 08 29										
	MNW	EP	Z	05 08 39										
DEC 06	MNG	P	Z	05 14 10										
		ES	Z	17 47										
	WEL	P	Z	05 14 13										
		ES	NE	17 55										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 06	09	41	06.4	14.9S	167.3E	124KM	5.3 NEW HEBRIDES						WEL 27	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	CRZ	P	Z	09 45 32										
	ONE	EP	E	09 45 52										
	KRP	IP	Z	09 46 12.0		U	0.12							6.5
	MNG	P	Z	09 46 33.0										
	COB	EP	Z	09 46 34										
	WEL	EP	Z	09 46 37			-0.77							5.8
	GPZ	EP	Z	09 46 55										
	MJZ	EP	Z	09 46 57										
	MSZ	EP	Z	09 47 02										
	MNW	EP	Z	09 47 11										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 07	09	41	14.1	16.7S	174.1W	120KM	5.0 TONGA						WEL 26	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	KRP	EP	Z	09 46 10										
	WEL	EP	Z	09 46 36										
	MSZ	EP	Z	09 47 26										
	MNW	EP	Z	09 47 35										
	H	M	S	EPICENTRE		DEPTH	MAG						DIST (DEG)	
DEC 07	09	49	37.0	14.6S	167.3E	151KM	5.3 NEW HEBRIDES						WEL 27	
				H	M S	DIR	LOG.A/T	AZ	TZ	AN	TW	AE TE	MAG	
	KRP	EP	Z	09 54 41			-0.60							5.9
	MNG	EP	Z	09 55 04										
	MJZ	EP	Z	09 55 28										
	MNW	EP	Z	09 55 41			-0.69							6.0

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 07	20 29 46.0	30.8S 179.7W	366KM	4.5 KERMADEC IS					MEL 11
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
GBZ EP	Z 20 30 31								
ONE EP	E 20 30 34								
GNZ EP	Z 20 30 44								
ES	Z 32 07								
KRP P	Z 20 30 48	-0.79							
ES	N 32 20								
CNZ EP	Z 20 30 58								
ES	Z 32 36								
MNG EP	Z 20 31 07								
ES	Z 32 59								
MEL EP	Z 20 31 21								
S	E 33 20								
GPZ ES	Z 20 34 19								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 07	23 00 28.0	5.8S 146.5E	66KM	5.1 E NEW GUINEA					MEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
COB EP	Z 23 08 19								
MNG EP	Z 23 08 24								
E•PP	Z 37								
MSZ EP	Z 23 08 24								
MNW P	Z 23 08 30								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 08	02 00 27.9	10.6S 161.5E	14KM	5.4 SOLOMON IS					MEL 33
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
MNG EP	Z 02 06 57								
COB P	Z 02 07 04								
MSZ EP	Z 02 07 16								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 09	05 23 38.9	22.2S 179.4W	588KM	4.9 S OF FIJI					MEL 28
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
KRP P	Z 05 31 59			-0.90					5.4
MNG P	Z 05 32 19								
COB EP	Z 05 32 31								
MNW EP	Z 05 33 25								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 09	07 54 19.8	15.2S 173.3W	33KM	5.0 TONGA					MEL 28
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
KRP P	Z 07 59 39								
MNG EP	Z 07 59 59								
MSZ P	Z 08 01 00								
MNW EP	Z 08 01 04								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 09	13 54 00.8	5.5S 145.9E	124KM	E NEW GUINEA					MEL 44
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
MNG P	Z 14 01 57								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 11	10 17 06.0	15.4S 173.4W	33KM	4.8 TONGA					MEL 28
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 10 22 26								
MNG EP	Z 10 22 46								
COB EP	Z 10 22 59								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 11	19 40 53.3	20.6S 174.3W	33KM	5.3 TONGA					MEL 23
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 19 45 20								
MNG EP	Z 19 45 44								

	ES	Z 49 29							
	MJZ EP	Z 19 46 32							
	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 12	04 24 42.3	5.2S 152.8E	54KM	4.9 NEW BRITAIN					MEL 41
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
KRP P	Z 04 32 02			-1.10					5.7
MNG P	Z 04 32 19								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 12	08 05 16.7	22.7S 171.1E	39KM	4.9 LOYALTY IS					MEL 19
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 08 09 57			-0.82					5.3
MNG EP	Z 08 10 26								
MEL EP	Z 08 10 33								
ES	E 14 12								
EL	ZNE 15								
MJZ EP	Z 08 10 59								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 13	10 38 23.4	47.6N 152.6E	124KM	5.5 KURILE IS					MEL 91
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
MNG P	Z 10 51 09								
•PP	Z 43								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 13	15 36 00.7	5.3N 125.9E	108KM	5.4 PHILIPPINE IS					MEL 64
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
MNW P	Z 15 46 18								
MJZ P	Z 15 46 20								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 13	19 07 14.4	19.1S 168.7E	51KM	5.7 NEW HEBRIDES					MEL 23
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
GNZ P	Z 19 11 55								
MNG P	Z 19 12 07								
ES	Z 16 07								
MJZ P	Z 19 12 33								
MNW P	Z 19 12 49								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 13	20 48 02.2	5.0S 149.7E	382KM	4.9 NEW BRITAIN					MEL 43
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
MNG IP	Z 20 55 21								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 13	21 35 11.4	17.7S 178.1W	562KM	4.6 FIJI					MEL 24
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
MNW P	Z 21 40 39								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 13	23 09 37.2	22.9S 171.5E	43KM	4.3 LOYALTY IS					MEL 19
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
MJZ EP	Z 23 14 19								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 14	20 27 48.6	26.1S 176.2W	112KM	4.9 S OF FIJI					MEL 17
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 20 29 25								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 14	23 26 39.7	5.1S 151.2E	150KM	5.1 NEW BRITAIN					MEL 42
		H M S	DIR	LOG•A/T	AZ	TZ	AN	TN	AE TE MAG
KRP EP	Z 23 33 57								
MNG P	Z 23 34 14								
MSZ EP	Z 23 34 19								

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 15	06 01 32.5	27.9S 175.7W	29KM	4.8 KERMADEC IS					WEL 15
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	EP Z	06 04 45							
	ES Z	07 23							
CIZ	EP Z	06 05 21							
	ES NE	07 53							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 15	19 39 06.3	11.4S 163.2E	37KM	5.2 SOLOMON IS					WEL 31
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	EP Z	19 45 20							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 15	19 47 13.5	29.1S 177.6W	61KM	5.3 KERMADEC IS					WEL 14
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
CRZ	EP Z	19 49 39							
MNG	EP Z	19 50 08							
	ES Z	52 22							
COB	EP Z	19 50 31							
	ES Z	52 58							
CIZ	EP Z	19 50 37							
	ES Z	53 06							
MSZ	EP Z	19 51 31							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 16	13 14 00.0	31.7S 179.8E	403KM	4.1 KERMADEC IS					WEL 18
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
ONE	EP E	13 15 41							
CRZ	P Z	13 15 46							
AUC	EP Z	13 15 48							
KRP	P Z	13 15 52							
	ES NE	17 19							
TUA	EP Z	13 15 54							
MNG	EP Z	13 16 12							
	ES Z	17 56							
WEL	EP Z	13 16 24							
	E Z	18 12							
	ES NE	19							
COB	EP Z	13 16 29							
	ES Z	18 31							
MSZ	EP Z	13 17 27							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 16	17 49 36.7	19.2S 168.7E	42KM	4.5 NEW HEBRIDES					WEL 23
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	EP Z	17 54 32							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 16	20 53 58.3	51.2N 157.7E	24KM	5.5 E OF KAMCHATKA					WEL 93
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	EP Z	21 07 08							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 17	10 56 48.2	20.5S 168.9E	32KM	LOYALTY IS					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	EP Z	11 01 29							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 17	20 53 01.0	20.7S 169.0E	33KM	4.2 NEW HEBRIDES					WEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	EP Z	20 57 42							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 18	06 24 19.7	22.4S 170.8E	34KM	4.8 LOYALTY IS					WEL 19
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
KRP	EP Z	06 28 05							
MNG	EP Z	06 28 34							
COB	EP Z	06 28 36							
MSZ	EP Z	06 29 15							

DEC 18	ONE	EP? E	10 11 58						
		E E	14 15						
	CRZ	EP ZNE	10 12 03						
	GBZ	E? Z	10 12 36						
	KRP	E Z	10 12 23						
	CNZ	EP Z	10 12 20						
		ES Z	14 07.5						
	TUA	E? Z	10 12 21						
		ES Z	13 38						
	MNG	EP Z	10 12 30						
		ES Z	14 21						
	WEL	ES ZNE	10 14 46						
	COB	EP Z	10 13 00						
		ES Z	15 04						
	GPZ	ES N	10 15 47						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 18	10 21 54.7	12.0N 143.8E	39KM	5.3 S OF MARIANA IS					WEL 60
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	EP Z	10 31 58							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
JUN 18	14 04 19.5	12.1N 143.6E	12KM	5.5 S OF MARIANA IS					WEL 60
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	EP Z	14 14 26							
MSZ	P Z	14 14 31							

DEC 18	KRP	EP Z	15 26 29						
	TUA	EP Z	15 26 29						
		E Z	27 54						
		ES Z	58						
	CNZ	EP Z	15 26 39						
	TNZ	EP Z	15 26 46						
	MNG	EP Z	15 26 48						
		E Z	52						
		ES Z	28 36						
	WEL	EP ZNE	15 27 01						
		ES ZNE	28 53.5						
	COB	EP Z	15 27 06						
		ES Z	29 03						
	GPZ	ES Z	15 29 53						

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 18	20 04 37.0	9.0S 123.7E	33KM	TIMOR					WEL 55
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MNG	P Z	20 14 09							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 19	08 42 20.7	28.5S 71.0W	18KM	5.3 NEAR CENTRAL CHILE					WEL 88
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
MJZ	P Z	08 55 13							
COB	P Z	08 55 15							
KRP	EP Z	08 55 16							

	H M S	EPICENTRE	DEPTH	MAG					DIST (DEG)
DEC 20	06 10 57.4	5.0S 144.4E	84KM	4.7 NEW GUINEA					WEL 45
		H M S	DIR	LOG A/T	AZ	TZ	AN	TW	AE TE MAG
KRP	P Z	06 18 54		-1.03					5.8

	COB	EP	Z	06 18 59									
	MNG	P	Z	06 19 07									
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 20	08	48	52.3	15.1S	167.6E	129KM	5.1 NEW HEBRIDES					HEL	27
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	KRP	P	Z	08	53 55		-0.97						
	MNG	EP	Z	08	54 17								5.4
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 20	11	34	25.9	11.9N	93.0E	61KM	5.4 ANDAMAN IS					HEL	92
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	MSZ	P	Z	11	47 09								
	MJZ	P	Z	11	47 15								
	COB	EP	Z	11	47 20								
	KRP	EP	Z	11	47 26								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 20	17	07	49.1	15.1S	167.4E	135KM	5.1 NEW HEBRIDES					HEL	27
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	CRZ	P	Z	17	12 12								
	KRP	P	Z	17	12 51								
	MNG	P	Z	17	13 13								
		ES	Z		17 36								
	MNW	EP	Z	17	13 51								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 21	02	25	21.6	21.8S	70.0W	33KM	6.3 NEAR N CHILE					HEL	93
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	CIZ	EP	Z	02	38 19								
	MNG	EP	Z	02	38 31								
	KRP	EP	Z	02	38 40								
	COB	EP	Z	02	38 41								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 21	11	42	25.3	21.1S	179.2W	606KM	4.5 FIJI					HEL	21
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	KRP	P	Z	11	45 56								
	MNG	EP	Z	11	46 16								
	COB	P	Z	11	46 27								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 21	17	45	54.4	33.7S	179.1W	23KM	5.1 KERMADEC IS					HEL	9
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
							0.25						
	KRP	P	Z	17	47 46								
	MNG	P	Z	17	48 11								
	COB	EP	Z	17	48 32								
	CIZ	EP	ZNE	17	48 46								
		ES	ZNE		50 58								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 22	09	31	36.1	21.7S	170.7E	135KM	LOYALTY IS					HEL	20
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	KRP	EP	Z	09	35 26		-1.09						5.1
	MNG	EP	Z	09	35 54								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 22	23	08	58.0	29.9S	177.4W	22KM	5.4 KERMADEC IS					HEL	13
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	CRZ	EP	Z	23	11 22								
	KRP	EP	Z	23	11 28								
	MNG	EP	Z	23	11 44								
		ES	Z		13 58								
	CIZ	EP	ZNE	23	12 19								
		ES	ZNE		14 42								
	MSZ	EP	Z	23	13 13								

	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 23	00	55	53.4	16.8S	173.3W	38KM	4.3 TONGA					HEL	26
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	KRP	EP	Z	01	01 57								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 23	13	23	15.0	5.2S	151.8E	61KM	5.5 NEW BRITAIN					HEL	41
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	KRP	EP	Z	13	30 39								
	COB	EP	Z	13	30 49								
	MNG	EP	Z	13	30 54								
	MSZ	EP	Z	13	31 00								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 23	17	14	37.6	11.0N	125.5E	154KM	5.3 PHILIPPINE IS					HEL	59
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	MSZ	EP	Z	17	25 18								
	KRP	EP	Z	17	25 19								
	MJZ	EP	Z	17	25 24								
	MNG	EP	Z	17	25 27								
DEC 23	KRP	EP	Z	23	36 42								
	MNG	EP	Z	23	37 03								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 24	02	24	58.4	21.0S	178.0W	428KM	5.0 FIJI					HEL	21
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	KRP	EP	Z	02	28 39		-0.63						5.7
	MNG	EP	Z	02	29 01								
		ES	Z		32 21								
	MEL	EP	Z	02	29 11								
		ES	ZNE		32 33								
	COB	P	Z	02	29 13								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 24	20	03	10.9	17.4N	61.1W	24KM	6.4 LEEWARD IS					HEL	127
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	MNG	EPKP	Z	20	22 17								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 24	21	32	31.3	17.4N	61.3W	20KM	5.9 LEEWARD IS					HEL	127
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	MNG	EPKP	Z	21	51 35								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 25	01	23	33.6	5.3S	153.7E	64KM	NEW IRELAND					HEL	40
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	CRZ	P	Z	01	30 12								
	KRP	P	Z	01	30 48		0.23						7.1
	COB	P	Z	01	31 00								
	MJZ	P	Z	01	31 13								
	CIZ	EP	Z	01	31 57								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 25	09	29	29.3	5.2S	154.0E	101KM	4.7 SOLOMON IS					HEL	40
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	MSZ	EP	Z	09	37 08								
	H	M	S	EPICENTRE		DEPTH	MAG					DIST	(DEG)
DEC 25	10	13	15.7	5.0S	154.0E	107KM	4.5 SOLOMON IS					HEL	41
				H	M S	DIR	LOG=A/T	AZ	TZ	AN	TN	AB	TE MAG
	MSZ	EP	Z	10	22 52								

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 25	10 41 31.6	21.5S 70.4W	53KM	5.8 NEAR N CHILE				AZEL 93
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MNG EP	Z 10 54 42						
	MJZ EP	Z 10 54 47						
	KRP EP	Z 10 54 48		-0.87				
	COB EP	Z 10 54 48						6.7

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 25	11 41 24.8	4.9S 153.9E	95KM	4.5 NEW IRELAND				AZEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MSZ EP	Z 11 49 03						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 25	12 09 38.4	4.9S 153.7E	104KM	5.1 NEW IRELAND				AZEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	KRP EP	Z 12 16 52						
	COB P	Z 12 17 04						
	MJZ P	Z 12 17 18						
	MNW EP	Z 12 17 24		-0.82				
								5.9

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 25	18 52 04.2	5.2S 154.0E	119KM	5.1 SOLOMON IS				AZEL 40
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MSZ P	Z 18 59 38						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 25	19 41 48.0	8.2S 158.6E	59KM	4.5 SOLOMON IS				AZEL 36
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MNG EP	Z 19 48 39						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 25	19 49 52.3	5.0S 153.7E	103KM	4.5 NEW IRELAND				AZEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MSZ P	Z 19 57 30						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 25	22 19 23.1	5.2S 153.6E	69KM	NEW IRELAND				AZEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MNG EP	Z 22 25 55						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 26	05 24 32.8	5.0S 153.9E	111KM	4.9 NEW IRELAND				AZEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MSZ EP	Z 05 32 11						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 26	08 52 42.3	5.1S 153.7E	59KM	5.2 NEW IRELAND				AZEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	KRP P	Z 08 59 57						
	COB EP	Z 09 00 09						
	MNG P	Z 09 00 14						
	MSZ EP	Z 09 00 24						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 26	14 34 27.8	32.0S 178.0W	33KM	4.7 S OF KERMADEC IS				AZEL 11
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	KRP P	Z 14 36 20						
	CRZ EP	Z 14 36 29						
	MNG EP	Z 14 36 45						
	ES	Z 38 32						
	CIZ EP	ZNE 14 37 16						
	ES	ZNE 39 13						
	MJZ ES	NE 14 40 27						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	01 43 25.0	5.8S 147.1E	85KM	5.0 E NEW GUINEA				AZEL 43
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	COB EP	Z 01 51 09						
	MNG P	Z 01 51 17						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	02 11 26.5	5.2S 154.0E	113KM	SOLOMON IS				AZEL 40
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	COB EP	Z 02 18 46						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	04 29 21.3	5.0S 153.7E	130KM	4.9 NEW IRELAND				AZEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MNG EP	Z 04 35 47						
	KRP EP	Z 04 35 50						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	06 15 56.4	23.8S 179.8E	506KM	4.5 S OF FIJI				AZEL 18
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	KRP EP	Z 06 19 05						
	MNG EP	Z 06 19 23						
	ES	Z 22 15						
	COB EP	Z 06 19 37						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	09 17 55.7	21.2S 68.3W	135KM	6.4 CHILE BORDER				AZEL 95
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MNG EP	Z 09 31 04						
	COB EP	Z 09 31 09						
	KRP EP	Z 09 31 10						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	10 27 15.8	10.7S 165.1E	46KM	4.9 SANTA CRUZ IS				AZEL 32
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MNG P	Z 10 33 30						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	13 19 20.7	5.3S 153.6E	71KM	4.4 NEW IRELAND				AZEL 41
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	KRP EP	Z 13 26 35		-1.35				5.5
	COB EP	Z 13 26 47						
	MNG EP	Z 13 26 51						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	14 39 08.5	3.5S 141.3E	36KM	5.1 NEW GUINEA				AZEL 48
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	KRP EP	Z 14 47 32						
	COB EP	Z 14 47 36						
	MNG EP	Z 14 47 44						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	16 22 48.5	22.3S 174.8W	33KM	6.1 TONGA				AZEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	CRZ EP	Z 16 26 38						
	KRP EP	Z 16 26 50						
	WEL EP	Z 16 27 29						
	ES	ZNE 31 00						
	CIZ EP	ZNE 16 27 38						
	ES	ZNE 31 22						
	MNW EP	Z 16 28 31						

	H M S	EPICENTRE	DEPTH	MAG				DIST (DEG)
DEC 27	19 26 05.9	21.8S 174.8W	33KM	4.6 TONGA				AZEL 21
		H M S	DIR	LOG A/T	AZ	TZ	AN TN	AZTE MAG
	MNG EP	Z 19 30 30						

	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 27	23 58 34.2	18.4S 174.0W	150KM	4.2 TONGA							MEL	25
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 00 03 33		-0.88								5.5
	MNG EP	Z 00 03 53										
	COB EP	Z 00 04 06										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 28	07 42 44.5	25.6S 179.7E	544KM	4.3 S OF FIJI							MEL	16
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	COB EP	Z 07 46 06										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 28	15 45 40.6	4.9S 153.9E	118KM	5.1 NEW IRELAND							MEL	41
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MSZ EP	Z 15 53 16										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 29	05 10 26.1	5.7S 153.6E	69KM	4.6 NEW IRELAND							MEL	40
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 05 17 37										
	MNG EP	Z 05 17 54										
DEC 29	GBZ EP	Z 08 58 18										
	KRP EP	Z 08 58 32										
	MNG P	Z 08 58 56.4										
	ES	Z 09 00 40										
	MEL ES	N 09 01 05										
	COB EP?	Z 08 59 13										
	ES	Z 09 01 09										
	GPZ ES	N 09 01 56										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 29	20 29 32.2	22.8S 175.3W	30KM	5.3 TONGA							MEL	20
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MNG EP	Z 20 33 52										
	MEL EP	Z 20 34 05										
	ES	ZNE 37 34										
	EL	ZNE 38										
	CIZ EP	Z 20 34 21										
	ES	ZNE 37 58										
	MJZ EP	Z 20 34 49										
	MNW EP	Z 20 35 11										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 29	22 23 06.0	22.7S 175.2W	33KM	5.1 TONGA							MEL	20
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	MNG EP	Z 22 27 30										
	ES	Z 30 50										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 30	00 07 12.5	3.1N 126.5E	33KM	5.2 TALAUD IS							MEL	62
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	COB EP	Z 00 17 24										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 30	05 06 38.0	6.4S 154.3E	33KM	4.5 SOLOMON IS							MEL	39
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 05 13 47										
	COB EP	Z 05 13 59										
	MNG EP	Z 05 14 03										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 31	13 59 13.8	7.1S 154.7E	59KM	4.6 SOLOMON IS							MEL	38
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 14 06 12										

	MNG EP	Z 14 06 29										
	H M S	EPICENTRE	DEPTH	MAG							DIST (DEG)	
DEC 31	15 05 32.3	7.1S 154.8E	19KM	5.4 SOLOMON IS							MEL	38
		H M S	DIR	LOGeA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	KRP EP	Z 15 12 35		-0.97								5.8
	COB EP	Z 15 12 48										
	MNG EP	Z 15 12 52										

PART TWO:

Readings from overseas stations under New Zealand control.

		H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01		00	21	06,6	12.1S 166,2E	33KM	4,9	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	00	24	29		13							
	AFI	EP	ZNE	00	25	54		22 -0,11							6,2
	RAO	EP	Z	00	26	14		23							

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	02	19	44,3	18.8S 173,6W	12KM	4,4	TONGA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	02	21	04		5 -0,90							
		ES	ZNE			52									
		ET	ZNE		25	13									
	RAR	P	ZNE	02	22	20		13							
		ES	E		24	44									
	SBA	IP	Z	02	29	53,7D		60							

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	03	13	18,0	11.9S 166,2E	33KM	4,6	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	03	16	40		13							
	AFI	EP	ZE	03	18	09		22 -0,98							5,3
		EPPP	Z		19	06									
		ES	Z		22	00									
		EL	ZE		23	36									
	SBA	IP	Z	03	24	03	U	66							
JAN 01	SBA	EP	Z	03	41	40									
		IS	Z			41,8U									

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	04	04	06,5	12.0S 166,0E	33KM	4,5	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	04	07	25		13							
	AFI	EP	ZE	04	08	56		22							
		ES	ZNE		13	03							4	15	5,4
		EL	ZNE		15	12							11	16	
	SBA	IP	Z	04	14	51,9D		66							
		ES	ZNE		23	40									
		ESS	ZE		28	00									
		EL	ZNE		32	20									
		EL	ZNE		35	40									

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	07	05	48,6	15.3S 173,6W	33KM	6,0	TONGA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	07	06	20		2							
	SUV	EP	Z	07	07	57		8							
	RAR	P	ZNE	07	09	09,5		14							
		ES	ZNE		11	35							74	13	33 13
		ELQ	N		13										
		ELR	ZNE		14										
		ET	ZNE		18	16									
	RAO	EP	Z	07	09	19		14							
		ES	Z		11	53									
	SBA	P	ZNE	07	16	19		63							
		EPP	ZN		18	40									
		ES	ZNE		24	58									
		ESS	ZN		29	14									
		EL	ZNE		34	44									
JAN 01	SBA	EP	Z	07	45	23									

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	07	40	11,8	16.6S 173,1W	33KM	4,1	TONGA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	07	40	51		3							
		ES	ZNE		41	18									
	RAR	EP	Z	07	43	13		13							
		ET	ZNE		56	50									

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	07	45	53,6	12.1S 166,2E	33KM	4,7	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	07	49	14		13							
	SBA	IP	Z	07	56	37	U	66 -0,81							6,4

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	08	11	12,8	12.2S 166,1E	33KM	4,5	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	Z	08	21	56		66							

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	08	45	42,2	20.5S 178,4W	627KM	5,6	FIJI

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	08	47	00		4							
	RAO	EP	Z	08	47	40		9							
		ES	Z		49	08									
	AFI	IP	ZNE	08	47	41		9 0,12							
		ES	ZNE		49	18									
	RAR	EP	Z	08	49	07		17							
	SBA	EP	Z	08	54	38,7		58							

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	08	55	16,8	12.3S 166,0E	33KM	4,7	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	08	58	38		13							
	AFI	EP	ZE	09	00	06		22							
		ES	ZE		04	18									
		ESS	ZE		05	36									
		EL	ZE		06	18							8	16	
	SBA	EP	Z	09	06	00		66							

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	13	04	55,3	11.3S 166,0E	33KM	4,3	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	13	08	24		14							

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	14	18	51,4	12.4S 165,8E	33KM	5,0	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	14	22	09		13							
	AFI	EP	ZE	14	23	34		22							
		ES	ZE		27	44									
		EL	ZE		30	00									8 16
	SBA	IP	Z	14	29	33	D	65							
		ES	E		38	26									
		EL	E		51	00									
		EL	ZN		53	16									
JAN 01	SBA	EP	Z	15	20	55		-0,90							
JAN 01	AFI	IP	ZN	17	22	41									
		ES	ZNE		23	00									

	H	M	S	EPICENTRE	DEPTH	MAG	
JAN 01	20	45	26.7	11.9S 165.9E	33KM	4,4	SANTA CRUZ IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	20	48	42		14							

	AFI	ES	ZE	20	54	12		22								
		EL	ZE		56	00										
	SBA	IP	Z	20	56	11	D	66	-0,96							6,2
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 01	21	58	57,8	11.1S		165,5E	33KM	5,4	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	22	02	21		14								
	AFI	EP	ZE	22	03	53		22	-0.02							6,3
		ES	ZNE		08	02						15	17			6,0
		EL	ZE		09	30								35	15	
		MAX	E		12	00										
	RAR	EP	Z	22	05	50		35								
		ES	ZN		11	28										
		ESS	N		13	21										
		EL	ZE		15	02										
	SBA	IP	Z	22	09	48,7	D	67								
		ES	ZNE		18	44										
		ESCS	NE		19	47										
		ESS	E		22	57										
		EL	ZE		26	37										
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 02	06	53	17,5	25.2S		71.0W	33KM	5.0	NEAR COAST OF N CHILE							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	Z	07	04	41		72								
		EPCP	Z			50										
		ES	ZNE		14	00										
		EL	N		24	50										
		EL	Z		27	00										
JAN 02	AFI	EP	ZNE	18	27	40										
		ES	ZNE		28	08										
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 02	19	59	58,2	12.3S		166,4E	33KM	5,2	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	20	03	16		13								
	AFI	EP	ZNE	20	04	44		21	-0,43							5,8
		ES	ZN		08	52										
		EL	ZN		11	06						12	14			
	RAO	EP	Z	20	05	05		22								
	RAR	EP	Z	20	06	22		34								
		ES	ZNE		12	10										
		ESS	ZNE		14	10										
		EL	ZE		17	08										
	SBA	IP	Z	20	10	40	U	66								
		ES	ZNE		19	20										
		ESS	ZNE		23	46										
		ELQ	E		27	10										
		ELR	ZN		31	06										
JAN 02	AFI	EP	ZNE	20	46	14										
		ES	ZNE			57										
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 02	23	49	38,8	11.2S		165,4E	33KM	4,7	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZN	23	57	42		22								
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 03	01	40	45,1	17.6S		172.2E	33KM	4,8	NEW HEBRIDES							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZE	01	44	25		16	-0.33							5,8
		ES	N		46	42										
		EL	Z		48	18										
	SBA	ESS	NE	02	03	20		60								

		EL	ZN		09	40										
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 03	04	36	03,9	11.1S		165,6E	33KM	4,5	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZN	04	45	19		22								
		EL	Z		46	36										
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 03	05	38	46.6	10.9S		165.5E	33KM	5,2	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	05	39	18		14								
	AFI	EP	ZNE	05	40	42		22								
		ES	ZN		45	00										
	RAR	EP	ZE	05	42	29		35								
		ES	ZN		48	06										
		ESSS	ZNE		50	35										
		EL	ZE		52	02										
	SBA	EP	Z	05	46	40		67								
		ES	ZNE		55	34										
		ESS	ZE		59	44										
		ELQ	ZE	06	03	16										
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 03	05	52	51,8	11.2S		165.5E	33KM	5,3	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	05	56	32		14								
	AFI	EP	ZNE	05	57	52		22								
	RAR	ES	N	06	05	04		35								
		ES	Z			35										
		ESS	NE		07	42										
		ESSS	ZE		08	10										
		EL	Z			50										
	SBA	EP	Z	06	03	30		67								
JAN 03	SUV	EP	Z	06	05	15										
	AFI	EP	ZE	06	06	39										
		EL	Z			49										
		E	E			54										
	SBA	EP	Z	06	12	32										
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 03	10	43	25,1	11.0S		165,4E	33KM	4,8	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZN	10	52	36		22								
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 03	11	05	15,4	11.2S		165,4E	33KM	5,3	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	11	08	47		14								
	AFI	EP	ZE	11	10	13		22								
		ES	ZN		14	28										
	RAR	ES	ZE	11	17	54		35								
		ESS	N		19	58										
		EL	ZE		21	04										
	SBA	P	Z	11	16	07		67								
		ES	NE		25	00										
		ESS	ZNE		29	40										
		ELQ	E		32	50										
		ELR	ZE		35	34									1	20
	H	M	S	EPICENTRE			DEPTH	MAG								
JAN 03	11	31	34,4	11.2S		165,4E	33KM	5,1	SANTA CRUZ IS							
				H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	11	35	07		14								
	AFI	EP	ZE	11	36	40		22								
	SBA	EP	Z	11	42	24		67								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 03	12 32 09.2	10.9S 165.4E	33KM	5.2	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z	12 35 39		15								
AFI	EP	ZE	12 36 40		22								
	EPP	Z	37 13										
	ES	ZN	41 14										
	EL	Z	42 48										
SBA	EP	Z	12 43 00		67								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 03	17 46 44.9	11.3S 165.8E	33KM	4.8	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	ES	ZN	17 55 36		22								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 03	20 12 48.4	20.5S 169.3E	46KM	4.4	NEW HEBRIDES

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	IP	Z	20 22 34.2	D	57								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 03	20 30 18.0	11.1S 165.5E	33KM	4.5	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	ES	ZN	20 38 30		22								
SBA	EP	Z	20 41 18		67								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 03	21 23 21.8	12.4S 166.4E	33KM	5.0	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE	21 28 08		21								
	ES	ZN	32 16										
	EL	Z	34 38										
	EL	N	54										
RAR	ES	ZNE	21 35 34		33								
	ESS	N	37 46										
	ELQ	NE	39 10										
	ELR	ZE	40 32										
SBA	IP	Z	21 34 04	U	65	-0.27							6.9
	ES	NE	42 50										
	EL	ZE	50 30										
JAN 03	AFI EP	ZE	21 38 36										
JAN 03	AFI IP	ZNE	22 28 20			-0.08							
	ES	ZNE	29 10										

	H M S	EPICENTRE	DEPTH	MAG	
JAN 03	22 27 07.4	11.5S 166.1E	33KM	4.5	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	Z	22 37 58		66								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 04	00 14 38.2	11.1S 165.5E	33KM	4.5	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	ES	ZN	00 23 24		22								
	EL	Z	25 24										

	H M S	EPICENTRE	DEPTH	MAG	
JAN 04	02 53 28.1	3.6S 148.9E	9KM	4.9	BISMARCK SEA

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	ESS	ZN	03 10 12		40								
	EL	Z	12 06										
SBA	EL	ZNE	03 29 00		75								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 04	03 41 36.4	20.3N 120.0E	33KM	5.6	PHILIPPINE IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	03 53 24		75	-0.75							6.3

	H M S	EPICENTRE	DEPTH	MAG	
JAN 04	22 48 24.4	55.7S 27.6W	88KM	5.5	SOUTH SANDWICH IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	ESSS	NE	23 07 36		46								
	EL	ZN	10 00										

	H M S	EPICENTRE	DEPTH	MAG	
JAN 05	00 14 40.4	48.1N 102.8E	33KM	6.4	MONGOLIA

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE	00 28 12		97	-0.28							7.3
	E	Z	42										
	EPP	Z	31 28										
	ES	N	39 38										
	ES	Z	41 00										
	E	Z	45 36										
	ESS	N	46 12										
RAR	EPP	ZE	00 33 56		110								
	EPPP	Z	37 06										
	ESKS	E	40 13										
	ESKKS	NE	41 40										
	ESSS	ZN	56 18										
	E	NE	01 00 06										
	L	Z	05 06										
SBA	EPKP	Z	00 33 51		132								
	EPP	ZNE	36 14										
	EPKS	ZNE	37 29										
	EPPP	Z	39 08										
	PS	NE	46 20										
	EPPS	ZE	48 14										
	SS	NE	53 34										
	SSP	ZE	54 18										
	SSS	ZNE	58 26										
	L	N	01 08 34										
	L	ZE	12 27										

	H M S	EPICENTRE	DEPTH	MAG	
JAN 05	00 42 13.3	48.4N 103.1E	33KM	5.6	MONGOLIA

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EPKP	Z	01 01 24		132								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 05	02 10 17.3	11.3S 165.6E	33KM	5.0	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z	02 13 51		14								
SBA	EP	Z	02 21 06		67								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 05	06 13 31.6	13.8N 120.7E	166KM	5.4	PHILIPPINE IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE	06 24 42		72	-0.29							6.5
	ESS	ZE	35 30										
	ESCS	N	44 00										
	ESS	ZE	47 06										
RAR	EP	Z	06 25 53		85								
SBA	EP	Z	06 26 39		95								

	H M S	EPICENTRE	DEPTH	MAG	
JAN 05	10 35 50.3	11.3S 166.2E	62KM	5.1	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z	10 39 04		14								
AFI	EP	ZE	10 40 38		22								

		EPP	ZE	51												
		ES	ZN	44 42												
		ESSS	E	45 18												
	SBA	IP	Z	10 46 35.1D	67	-0,63										5,4
	H M S	EPICENTRE	DEPTH	MAG												
JAN 05	21 38 28.6	21.8S 169.9E	62KM	LOYALTY IS												
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV	EP	Z	21 40 36		9										
	AFI	EP	Z	21 42 44		19										
	H M S	EPICENTRE	DEPTH	MAG												
JAN 06	00 04 02.7	41.8N 143.3E	35KM	5.5	JAPAN											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI	EP	Z	00 15 15		69										
		ES	ZNE	24 12												
		ESSS	ZN	31 36												
		EL	ZN	34 30												
		EMAX	E	35 54												
JAN 06	AFI	IP	Z	00 50 02.1U												
	H M S	EPICENTRE	DEPTH	MAG												
JAN 06	04 07 24.6	1.7S 126.3E	39KM	5.0	MOLUCCA SEA											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SBA	EP	Z	04 19 36		79										
JAN 06	SUV	EP	Z	05 26 35												
	AFI	E	ZNE	05 32 24												
		EL	ZE	33 42												
	SBA	EP	Z	05 33 58												
	H M S	EPICENTRE	DEPTH	MAG												
JAN 06	08 14 25.7	11.9S 166.2E	33KM	4.5	SANTA CRUZ IS											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV	EP	Z	08 17 48		13										
	SBA	EP	Z	08 25 10		66										
	H M S	EPICENTRE	DEPTH	MAG												
JAN 06	10 03 05.8	1.5S 126.6E	57KM	5.4	MOLUCCA SEA											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SBA	IP	Z	10 15 07.1D		79										
		ES	NE	25 58												
		EL	N	37 04												
		EL	ZNE	40 40												
JAN 06	AFI	EP	Z	12 42 21												
		ES	ZNE	43 19												
JAN 06	AFI	EP	ZNE	19 12 48												
		S	ZNE	13 08												
	H M S	EPICENTRE	DEPTH	MAG												
JAN 07	00 27 25.2	48.8S 112.7E	33KM	5.8	SE INDIAN RISE											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SBA	EP	ZE	00 34 19		35										
		EPP	ZE	35 30												
		ES	ZNE	40 54												
		ELQ	NE	43 27												
		LR	ZNE	45 27												
	AFI	E	ZNE	00 47 48		70										
		ES	ZN	52 06												
		ESS	N	57 06												
		E	Z	55 48												
		ESSS	ZNE	01 01 00												
	RAR	EP	Z	00 38 49		73										
		ES	NE	48 20												

		EL	ZNE	01 01 16												
JAN 07	SUV	EP	Z	09 31 56												
		ES	Z	32 26												
	AFI	ES	ZE	09 35 18												
	H M S	EPICENTRE	DEPTH	MAG												
JAN 07	11 33 00.5	12.3S 166.1E	33KM	4.7	SANTA CRUZ IS											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV	EP	Z	11 36 14		13										
	AFI	EP	Z	11 37 55		22										
		ES	ZNE	41 50												
		EL	ZE	44 12												
	SBA	EP	Z	11 43 43		66										
		ES	NE	52 30												
		ESS	NE	56 40												
	H M S	EPICENTRE	DEPTH	MAG												
JAN 07	13 34 48.3	11.8N 142.7E	36KM	5.6	S OF MARIANA IS											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV	EP	Z	13 43 11		46										
	SBA	EP	Z	13 47 44		91										
	H M S	EPICENTRE	DEPTH	MAG												
JAN 07	15 53 50.9	12.6S 167.5E	33KM	4.8	SANTA CRUZ IS											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV	EP	Z	15 56 45		12										
	AFI	E	ZNE	15 58 12		20										
		ES	ZNE	16 02 24												
		EL	Z	03 30												
	SBA	EP	Z	16 04 31		65										
	H M S	EPICENTRE	DEPTH	MAG												
JAN 07	16 41 03.0	11.9S 166.1E	33KM	5.1	SANTA CRUZ IS											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV	EP	Z	16 44 23		13										
	AFI	EP	Z	16 45 53		22	-0,52									5,8
		ES	ZNE	50 00												
		EL	ZE	52 42												
	SBA	EP	Z	16 51 49		66					2	6				6,4
		ES	NE	17 00 46												
		ESS	ZE	04 50												
		ESSS	ZE	08 22												
		EL	NE	09 42												
	H M S	EPICENTRE	DEPTH	MAG												
JAN 08	05 02 52.1	56.0N 162.9E	33KM	5.1	KAMCHATKA											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI	ES	ZN	05 23 48		73										
		EL	E	33 18												
		EL	ZN	35 48												
JAN 08	AFI	IP	Z	12 29 11	U		-0,93									
		S	ZNE	29												
	H M S	EPICENTRE	DEPTH	MAG												
JAN 08	15 27 16.9	12.2S 166.5E	40KM	5.1	SANTA CRUZ IS											
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI	EP	Z	15 32 01		21										
		ES	ZNE	36 00												
		EL	ZE	37 36												
	SBA	EP	Z	15 37 59		66										
		ESSS	ZE	54 30												
		EL	ZN	57 56												
JAN 09	AFI	IP	Z	07 02 24.5U												
		S	ZNE	43												

		H M S	EPICENTRE	DEPTH	MAG	
JAN 09		17 47 41.6	12.3S 166.6E	33KM	4.8	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	17 50 57		13	
	AFI ES	ZNE	17 56 18		21	
JAN 09	AFI EP	Z	18 50 28			
	ES	ZNE	51 06			
		H M S	EPICENTRE	DEPTH	MAG	
JAN 09		19 03 44.3	15.5S 176.1W	339KM	5.0	FIJI
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI IP	ZNE	19 04 59	D	4	
	ES	NE	05 15			
	SUV EP	Z	19 05 19		6	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 09		19 47 06.0	11.5S 165.4E	78KM	5.5	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	19 50 28		14	
	AFI ES	ZNE	19 55 30		22	
JAN 09	AFI IP	Z	20 07 16	U		
	ES	NE	38			
JAN 10	AFI IP	Z	10 49 44	D	-0.60	
	S	ZNE	50 04			
		H M S	EPICENTRE	DEPTH	MAG	
JAN 10		13 34 05.8	19.6S 175.8W	33KM	5.0	TONGA
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	13 35 24		6	
	AFI EP	Z	13 35 40		7	
	ES	ZNE	36 50			
	ET	ZNE	42 32			
	RAR EP	Z	13 37 35		15	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 10		18 03 46.7	11.5S 165.8E	33KM	4.8	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	18 07 11		14	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 10		18 06 56.9	11.5S 165.7E	24KM	4.7	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	18 10 23		14	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 11		02 58 01.2	11.4S 165.6E	33KM	5.3	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	03 01 23		14	
	SBA EP	Z	03 08 53		66	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 11		05 54 00.1	0.1S 120.1E	23KM	5.6	NORTHERN CELEBES
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	06 04 04		60	
	SBA EP	Z	06 06 18		82	
	ES	ZNE	16 34			
	EL	NE	30 08			
		H M S	EPICENTRE	DEPTH	MAG	
JAN 11		10 43 38.6	11.5S 165.5E	33KM	4.7	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	10 47 03		14	

		H M S	EPICENTRE	DEPTH	MAG	
JAN 11		11 03 40.9	11.3S 165.6E	33KM	4.5	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	11 06 55		14	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 11		11 20 45.7	34.1N 45.7E	34KM	5.6	PERSIA-IRAQ BORDER
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA EPKP	Z	11 39 52.8		129	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 11		11 32 26.1	11.4S 165.6E	33KM	4.5	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	11 35 46		14	
	SBA EP	Z	11 43 15		66	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 11		11 41 02.5	11.4S 165.8E	56KM	4.6	SANTA CRUZ IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP	Z	11 44 10		14	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 11		16 08 06.1	5.3N 82.5W	22KM	5.3	SOUTH OF PANAMA
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA ESS	N	16 40 26		99	
	ELQ	NE	50 00			
	ELR	Z	54 40			
		H M S	EPICENTRE	DEPTH	MAG	
JAN 12		05 17 22.4	56.1S 26.7W	33KM	5.4	S SANDWICH IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA EP	Z	05 25 45		46	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 12		10 14 28.8	26.3S 179.2E	527KM	4.5	S OF FIJI
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO IP	Z	10 15 44.6U		4	
	ES	Z	16 46			
	SUV EP	Z	10 16 22		8	
JAN 13	RAO IP	Z	03 40 12.2D			
		H M S	EPICENTRE	DEPTH	MAG	
JAN 13		13 48 11.7	10.6S 161.4E	32KM	5.7	SOLOMON IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO EP	Z	13 53 56		27	
	RAR ES	Z	14 01 39		39	
	EL	Z	06 36			
	SBA EP	ZN	13 59 06		67	
	ES	ZNE	14 08 03			
	ESS	NE	12 24			
	E	E	15 41			
	EI	Z	16 13			
	EL	ZN	19 28			
		H M S	EPICENTRE	DEPTH	MAG	
JAN 14		12 41 17.4	4.1S 102.4E	33KM	5.2	SOUTHERN SUMATRA
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA EIP	Z	12 53 29		81	
		H M S	EPICENTRE	DEPTH	MAG	
JAN 14		14 06 48.3	43.4S 39.1E	33KM	5.3	PRINCE EDWARD IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA EP	Z	14 16 18		55	
	ES	ZNE	24 03			
	ESS	E	27 42			2 11 5.9

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                ESS    N        28 26
                ESSS   NE       30 08
                EL     Z        32 28

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 14   14 13 40.8   11.3S 165.7E   33KM  4.7  SANTA CRUZ IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  EP     Z   14 17 04        14

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 15   15 05 37.3   25.6S  70.7W    5KM  4.8  NEAR COAST OF N CHILE
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SBA  EP     Z   15 17 10        72

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 16   04 44 27.3   11.3S 165.7E   33KM  5.3  SANTA CRUZ IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  EP     Z   04 47 57        14
           SBA  EP     Z   04 55 20        67
                ES     NE  05 04 24
                EL     E      15 00

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 16   07 11 12.1   24.2S  66.8E  188KM  5.4  ARGENTINA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SBA EIP     Z   07 22 27        69

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 16   11 09 08.4   10.7S 161.3E   40KM  5.1  SANTA CRUZ IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  EP     Z   11 13 18        18
           SBA  EP     Z   11 20 01        67
                ES     E      28 58
                ELQ    E      36 54
                ELR    ZN     40 26

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 16   14 26 22.9   11.2S 165.7E    6KM  5.3  SANTA CRUZ IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  EP     Z   14 29 48        14
           RAR  EP     ZE  14 33 23        35
                ES     Z      39 09
           SBA  EP     Z   14 37 15        67
                ES     E      45 08
                ES     ZNE    46 12
                ESS    E      50 20
                ESS    ZN        42
                EL     ZE     54 00
                EL     ZN     58 15

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 16   14 39 09.0   5.8N 123.5E    42KM  5.2  PHILIPPINE IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SBA  EP     Z   14 51 50.6      87

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 16   14 48 49.3   11.3S 165.7E   33KM  5.1  SANTA CRUZ IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  EP     Z   14 52 15        14
           SBA  EP     Z   14 59 38        67

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 16   16 02 22.7   11.3S 165.6E   38KM  5.1  SANTA CRUZ IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  EP     Z   16 05 47        14
           SBA  EP     Z   16 13 14        67
                ES     E      22 10
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                ESKS   ZNE      23 05
                ELQ    E        29 52
                ELR    ZN       33 38

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 17   01 07 54.3   27.4S  63.3W  590KM  5.5  ARGENTINA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SBA  EP     Z   01 18 15        71 -0.66                        5.9
                PCP    Z         33
                I.PP   Z      20 13   U
                ES     ZNE    26 46
                E.SS   NE     30 16
                E      ZNE    31 20
                E      ZE     34 36

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 17   01 17 19.4   14.7S 167.2E   90KM  4.9  NEW HEBRIDES
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  EP     Z   01 20 02        11
           RAO  EP     Z   01 21 47        20
           RAR  EP     ZNE 01 23 41        32
                ES     ZNE    29 08
           SBA  IP     ZNE 01 27 39   U    63 -0.03                        7.0

JAN 17     SBA  EP     Z   01 45 51

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 17   03 21 18.3   20.2S 177.8W  500KM  4.6  FIJI
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  P      Z   03 22 41         4
                ES     Z      23 50
           AFI  EP     Z   03 23 20         9 -0.14
                ES     ZNE    24 50
           RAO  EP     Z   03 23 22         9
                ES     Z      24 56
           SBA  IP     Z   03 31 26   D    58

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 17   10 25 22.7   58.2S  25.4W   33KM  5.1  S SANDWICH IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SBA  EP     Z   10 33 28        44
                EPCP   Z      35 13

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 17   10 50 46.5   30.6S 177.8W   33KM  4.6  KERMADEC IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           RAO  EP     Z   10 51 07         1
           SUV  EP     Z   10 53 49        13
           AFI  EP     Z   10 54 51        18
                ES     NE     57 49
           SBA  EP     Z   10 59 25.8      48 -1.03                        5.9

         H  M  S      EPICENTRE     DEPTH  MAG
JAN 17   11 59 31.3   38.3N 142.1E   44KM  5.9  JAPAN
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
           SUV  EP     Z   12 10 12        66
           AFI  EP     Z   12 10 30        68
                ES     ZNE    19 25
                ESS    ZE     23 25
                ESSS   ZNE    26 51
                EL     ZNE    30 11
           RAR  EP     ZNE 12 11 40        80
                ES     ZNE    21 46
                ELQ    ZNE    35 36
           SBA  EPKP   Z   12 18 11       117
                EPP    ZNE    19 34
                EPPP   Z      21 18
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                 ESKS    N        24 58
                 ESKKS   ZN       26 20
                 EPS     ZNE      29 03
                 ESS     ZNE      35 16
                 ESSS    ZNE      39 00
                 E       ZNE      46 47
                 ELQ     E        48 44
                 ELR     Z        52 07

JAN 17   AFI     EP      Z     18 27 04
                 ES      NE       28 13

JAN 18   AFI     EP      Z     03 15 57
                 ES      ZNE      16 50

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 18   05 34 32.6      56.6N 120.8E   11KM   6.1  E RUSSIA
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         SUV     EP      Z     05 47 26      89
         AFI     EP      Z     05 47 32      90
                 ES      NE       57 55
                 ESS     E     06 04 23
                 E       ZE       10 20
                 EL      ZE       13 24
                 EL      ZNE      16 42
         SBA     EPKP    Z     05 53 54      137
                 EPP     ZN       56 40
                 EPKS    NE       57 32
                 EPPP    ZN    06 00 02
                 EPKKS   N        06 07
                 EPPS    ZN       08 50
                 ESS     ZN       14 52
                 ESSS    ZNE      19 00
                 ELQ     E        32 52
                 ELR     E        38 58

JAN 18   AFI     EP      Z     07 27 13
                 ES      ZNE         42

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 18   08 18 22.0      52.5N 168.3W   37KM   5.7  ALEUTIAN IS
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         AFI     ESSS    NE    08 45 42      66
                 EL      Z        49 36
         SUV     EP      Z     08 29 44      71

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 18   12 35 36.6      22.6S 172.6E   76KM   4.3  LOYALTY IS
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         SUV     EP      Z     12 37 14       7

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 18   14 29 51.5      17.9S 175.4W  226KM   4.6  TONGA
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         AFI     IP      Z     14 31 10.9D    5
                 S       ZNE      32 08

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 18   16 08 05.2      19.5S 169.8E   33KM   4.5  NEW HEBRIDES
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         SUV     EP      Z     16 10 03       8
         AFI     ES      ZNE   16 17 00      18

JAN 18   AFI     IP      Z     23 01 24.2U
                 S       ZNE         41

JAN 19   AFI     EP      Z     09 46 08
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                 ES      NE          50

JAN 19   AFI     EP      ZNE   11 37 43
                 ES      ZNE      38 19

JAN 19   RAO     E(P)    Z     11 43 39

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 19   12 38 31.3      11.8S 166.4E  156KM   5.5  SANTA CRUZ IS
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         SBA     IPCP    Z     12 49 03.2D   66
                 ES      N        57 45

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 19   12 40 12.6      14.8S 178.8W   18KM   6.6  FIJI
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         SUV     EP      Z     12 41 13       4
         AFI     EP      ZNE   12 41 48       7
                 ES      ZNE      44 09
         RAR     EP      ZNE   12 44 34   U  19        47 12                  6.7
                 ES      ZNE      48 33
         SBA     EIP     Z     12 50 43      63
                 S       ZNE      59 25
                 SS      ZNE   13 02 44
                 LQ      NE       06 30
                 LR      ZN       09 51

JAN 19   SUV     EP      Z     17 21 16
         AFI     EP      Z     17 22 23
                 ES      ZNE      23 36

JAN 19   AFI     IP      Z     22 45 40   D
                 ES      NE       46 13

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 20   00 22 53.2       3.9S 152.0E   23KM   5.0  NEW IRELAND
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         AFI     ESS     NE    00 38 00      37
                 EL      ZE       40 06

          H  M  S         EPICENTRE     DEPTH  MAG
JAN 20   01 57 23.1      48.0N 102.9E   33KM   6.1  MONGOLIA
                                H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         AFI     ES      NE    02 23 12      97
                 ES      ZNE      24 30
                 ESS     ZNE      29 36
                 ESSS    ZN       33 30
                 E       E        37 12
                 EL      NE       39 00
                 L       Z        43 48
         SBA     EPKP    Z     02 16 34      131
                 EPP     ZE       18 18
                 EPKS    ZNE      19 54
                 ESKKS   NE       25 51
                 ESKSP   ZNE      28 35
                 EPCPPKP Z        29 24
                 EPPS    E        30 50
                 ESS     NE       36 44
                 ESSS    ZN       41 32
                 ELQ     NE       51 26
                 ELR     Z     03 00 36

JAN 20   AFI     EP      Z     04 52 47
                 ES      ZNE      53 47                        11 11   9 11

JAN 20   AFI     ES      NE    06 20 06

JAN 20   SBA     EP      Z     12 20 28
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		E	Z	21 40										
		EL	ZNE	24 10										
JAN 20	RAO	EP	Z	21 41 55										
		ES	Z	42 13										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 21	02 54 00.8		49.6S	114.8W	33KM	5.3	EASTER IS CORDILLERA							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	Z	03 01 30		39								
		EPPP	Z	03 54										
		ES	ZNE	07 40										
		ESS	ZNE	10 28										
		EL	N	11 50										
		EL	ZE	12 24										
	RAR	ES	NE	03 09 05		45								
		ESS	NE	12 22										
	AFI	EP	Z	03 03 31		58								
		ES	ZNE	11 52										
		ESS	NE	15 54										
		ESSS	ZNE	17 54										
		EL	ZNE	19 42										
JAN 21	AFI	EP	Z	04 46 14										
		ES	NE	47 04										
JAN 21	AFI	EP	Z	04 51 38										
		ES	NE	52 10										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 21	13 48 14.1		30.7S	178.2W	65KM	4.9	KERMADEC IS							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	IP	Z	13 48 34.5D		1								
	SUV	EP	Z	13 51 18		13								
	AFI	EP	Z	13 52 05		18								
		ES	NE	55 15										
		EL	ZNE	43										
		ET	ZNE	14 09 35										
	RAR	EP	ZE	13 52 29		19								
	H M S		EPICENTRE		DEPTH	MAG								
JAN 21	15 16 37.3		16.4S	178.7W	496KM	3.6	FIJI							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	15 17 45		3								
	AFI	IP	Z	15 18 15		7	-0.04							
		ES	NE	19 34										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 22	17 29 18.5		20.1S	177.9W	569KM	3.5	FIJI							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	17 30 33		4								
	AFI	EP	Z	17 32 09		8								
		ES	NE	33 41										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 22	21 34 35.0		16.5S	173.8W	33KM	4.2	TONGA							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	21 36 23.5		3								
		ES	ZNE	53										
	RAR	EP	Z	21 37 52		14								
	H M S		EPICENTRE		DEPTH	MAG								
JAN 22	22 35 50.6		18.0S	178.5W	600KM	4.5	FIJI							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	22 37 10		3								
	AFI	EP	Z	22 38 34		8								
		ES	NE	40 04										

	RAO	ES	Z	22 40 24		11								
	H M S		EPICENTRE		DEPTH	MAG								
JAN 23	11 09 51.8		27.7S	176.9W	60KM	5.1	KERMADEC IS							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z	11 10 20		2								
	SUV	EP	Z	11 12 19		10								
	AFI	EP	Z	11 14 04		15								
		ES	NE	16 32										
		EL	ZNE	17 37										
		ET	ZNE	27 00										
	RAR	EP	ZNE	11 13 49		17								
JAN 23	AFI	EP	Z	11 44 05										
		ES	NE	57										
	SUV	EP	Z	11 45 40										
JAN 23	AFI	EP	Z	15 26 04										
		ES	NE	27 43										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 23	20 29 38.8		19.9N	109.3W	56KM	5.3	REVILLA GIGEDO IS							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZNE	20 47 24		70								
		EL	NE	59 54										
		EL	ZNE	58 18										
	SBA	EL	ZE	21 16 08		108								
	H M S		EPICENTRE		DEPTH	MAG								
JAN 24	09 29 12.3		0.6S	21.0W	33KM	4.9	CENTRAL MID-ATLANTIC RIDGE							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	ES	NE	09 54 22		102								
		ES	ZN	56 20										
		ESS	ZE	10 01 56										
		ESSS	ZE	06 12										
		EL	ZN	11 14										
		EL	ZN	15 42										
	AFI	EPKP	Z	09 49 04		148								
		ESSP	ZNE	10 11 42										
		ESSS	Z	18 30										
		EL	ZN	25 18										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 24	03 05 39.0		41.4N	141.9E	69KM	5.7	JAPAN							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	NE	03 26 06		70								
		EL	ZNE	37 18										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 25	04 12 58.8		20.2S	178.5W	576KM	4.0	FIJI							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	04 14 23		4								
	AFI	IP	Z	04 15 08	U	9	-0.92							
		ES	NE	16 48										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 25	07 31 35.3		20.6S	178.4W	517KM	4.8	FIJI							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	Z	07 33 48.9U		9	-0.55							
		ES	ZNE	35 31										
	H M S		EPICENTRE		DEPTH	MAG								
JAN 25	08 18 10.5		11.5S	165.7E	62KM	4.8	SANTA CRUZ IS							
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	08 23 18		22								
		EL	NE	27 53										

			H M S	EPICENTRE	DEPTH	MAG	
JAN 25			10 44 27.2	19.9S 178.1W	599KM	4.2	FIJI
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP	Z	10 45 50		4	
	AFI	EP	ZNE	10 46 30		8	-0.62
		ES	ZNE	48 06			
JAN 26	AFI	EP	ZNE	11 59 45			
		ES	ZNE	12 00 16			
JAN 26	AFI	IP	Z	15 38 29	U		
		ES	NE	46			
	H M S		EPICENTRE	DEPTH	MAG		
JAN 26	16 10 34.3		15.0N 92.8W	56KM	5.3	MEXICO	
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	AFI	ES	E 16 33 30		83		
		ESSS	N	42 24			
		EL	ZNE	47 48			
JAN 27	AFI	ES	ZNE	12 40 54			
	H M S		EPICENTRE	DEPTH	MAG		
JAN 27	12 37 13.5		20.5S 177.8W	440KM	4.6	FIJI	
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	SUV	EP	Z	12 38 32		4	
		ES	Z	39 37			
	AFI	EP	Z	12 39 21		9	
	RAO	EP	Z	12 39 22		9	
		ES	Z	40 53			
	H M S		EPICENTRE	DEPTH	MAG		
JAN 27	14 13 47.3		31.6S 179.3E	47.0KM		KERMADEC IS	
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	RAO	EP	Z	14 14 49		3	
		ES	Z	15 30			
JAN 27	AFI	EP	Z	16 44 35			
		ES	ZNE	45 00			
		ET	ZNE	46 45			
JAN 27	AFI	EP	Z	16 49 25			
		ES	ZNE	50			
		ET	ZNE	51 30			
JAN 27	AFI	EP	Z	17 45 52			
		ES	ZNE	46 14			
JAN 28	AFI	EP	ZNE	13 54 03			
		ES	ZNE	23			
	H M S		EPICENTRE	DEPTH	MAG		
JAN 28	13 52 58.3		52.4N 169.5W	47KM	6.7	ALEUTIAN IS	
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	AFI	EP	Z	14 03 46		66	
		ES	ZNE	12 24			
		ESS	ZNE	15 36			
		ESSS	ZNE	19 42			
		EL	ZN	22 48			
	SUV	EP	Z	14 04 11		71	
	RAR	EP	ZNE	14 04 37		74	
		ES	ZNE	13 58			34 20 7.1
		ESS	ZNE	18 25			
		ESSS	ZNE	22 15			
		ELQ	ZNE	24 00			
		ELR	ZNE	26 05			64 35

	SBA	EPKP	Z	14 12 04		131	
		EPP	ZNE	14 40			
		EPKS	ZNE	15 26			
		ESKS	NE	19 14			
		ESKKS	ZNE	21 16			
		ESCSP	Z	23 20			
		EPKKS	N	24 04			
		EPPS	E	40			
		ESCSPKP	Z	27 36			
		ESKKS	ZNE	29 20			
		ESSP	Z	32 19			
		ESSS	E	36 29			
		ELQ	E	46 28			
		ELR	ZE	52 02			
JAN 28	AFI	EP	ZNE	15 23 00			
		ES	ZNE	53			
	H M S		EPICENTRE	DEPTH	MAG		
JAN 28	17 26 32.8		52.3N 169.4W	33KM	4.3	ALEUTIAN IS	
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	AFI	ES	NE 17 46 30		66		
	H M S		EPICENTRE	DEPTH	MAG		
JAN 28	17 42 01.3		52.4N 169.4W	50KM	5.6	ALEUTIAN IS	
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	AFI	ES	N 18 01 24		66		
		ESSS	NE	08 42			
		EL	ZN	11 30			
JAN 29	AFI	EP	Z	02 25 45			
		ES	ZNE	26 20			
		ET	ZNE	28 26			
	H M S		EPICENTRE	DEPTH	MAG		
JAN 29	17 46 33.3		16.2S 173.8W	134KM	4.5	TONGA	
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	AFI	IP	ZNE 17 47 16	U	3		
		ES	ZNE	46			
	SUV	EP	Z	17 48 28		8	
JAN 30	AFI	ES	ZNE	01 29 17			
JAN 31	SUV	EP	Z	14 03 55			
JAN 31	AFI	EP	ZNE	16 18 46			
		ES	ZNE	19 02			
FEB 01	AFI	EP	ZNE	05 36 39			
		S	ZNE	57			
FEB 01	AFI	IP	ZNE	06 36 39.4US			
		IS	ZNE	59 SW			
FEB 01	AFI	EP	Z	20 07 33			
		ES	NE	08 10			
	H M S		EPICENTRE	DEPTH	MAG		
FEB 02	06 25 49.8		57.9S 25.7W	81KM	5.8	S SANDWICH IS	
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	SBA	EP	ZN 06 33 54		44		
		ES	NE	40 26			
		ELQ	ZNE	44 05			
		ELR	ZN	46 55			
	AFI	ES	ZNE 06 53 12		103		
		EL	ZNE 07 12 00				
FEB 02	AFI	EP	Z	07 59 33			

		ES	NE			55									
FEB 02	AFI	EP	Z	11	31	22									
		ES	NE			44									
	H	M	S	EPICENTRE			DEPTH	MAG.							
FEB 02	18	18	17.4	4.3S	153.7E		247KM	5.0	NEW IRELAND						
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE TE MAG
	AFI	EP	Z		18	24	51			35					
FEB 02	AFI	EP	Z		21	16	20								
	H	M	S	EPICENTRE			DEPTH	MAG							
FEB 03	02	55	59.5	20.8S	175.3W		70KM	4.6	TONGA						
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE TE MAG
	AFI	EP	ZNE	02	57	44			8						
		ES	ZNE		59	00									
		ET	ZNE	03	03	05									
	RAO	ES	Z	02	59	45			9						
FEB 03	AFI	EP	ZNE	06	23	35				-0.17					
		S	ZNE			52									
	H	M	S	EPICENTRE			DEPTH	MAG							
FEB 03	12	48	09.2	5.6S	110.5E		560KM	5.4	JAVA SEA						
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE TE MAG
	AFI	EP	ZNE	12	59	07			77						
		E	N	13	01	12									
		EL	NE		08	18									
FEB 03	AFI	EP	Z	13	56	59									
		ES	ZNE		57	40									
FEB 03	AFI	EP	ZNE	21	50	28									
		ES	ZNE			57									
FEB 04	AFI	EP	ZNE	09	32	21									
		ES	ZNE		33	03									
FEB 04	AFI	E	NE	09	50	54									
FEB 04	AFI	IP	ZNE	18	34	26.9	UNE								
		S	ZNE			47									
FEB 05	AFI	EP	Z	06	29	01									
		ES	ZNE			51									
		ET	ZNE		33	34									
FEB 05	AFI	IP	Z	07	24	43.7	D								
		IS	NE		25	03									
FEB 05	AFI	EP	ZNE	09	31	13									
		EIS	ZNE			33									
FEB 05	AFI	EP	Z	10	33	04									
		ES	ZNE			46									
FEB 05	AFI	EP	Z	18	07	15									
		ES	ZNE			47									
FEB 05	AFI	EP	Z	18	31	06									
		ES	ZNE		32	02									
FEB 05	AFI	EP	Z	19	04	40									
		ES	NE		05	59									
	SUV	EP	Z	19	04	43									
FEB 06	AFI	EP	ZNE	00	14	40									

		ES	ZNE		16	25									
FEB 06	AFI	EP	ZNE	01	16	48									
		IS	ZNE		17	17									
	H	M	S	EPICENTRE			DEPTH	MAG							
FEB 06	01	18	05.6	23.9S	179.7W		435KM	4.6	S OF FIJI						
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE TE MAG
	RAO	IP	Z	01	19	48.5	D		6						
		ES	Z		21	03									
	AFI	EP	ZE	01	20	55			12						
		ES	NE		23	05									
	H	M	S	EPICENTRE			DEPTH	MAG							
FEB 06	01	39	17.9	20.2S	176.2W		280KM	4.1	FIJI						
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SUV	EP	Z	01	36	43			5						
	AFI	EP	ZNE	01	36	55			8						
		ES	ZNE		38	10									
	H	M	S	EPICENTRE			DEPTH	MAG							
FEB 06	03	10	33.4	22.8S	176.1W		90KM	5.1	S OF FIJI						
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SUV	EP	Z	03	12	15			7						
	RAO	EP	Z	03	12	19			7						
		ES	Z		13	35									
	AFI	EP	Z	03	12	41			10						
		S	ZNE		14	17									
		ET	ZNE		19	55									
	RAR	EP	ZNE	03	14	02			15						
		ES	ZNE		16	37									
		ET	ZNE		28	41.5									
FEB 06	AFI	EP	Z	13	32	12									
		ES	ZNE			53									
FEB 06	AFI	IP	Z	21	09	46	U								
		S	ZNE		10	07									
FEB 06	AFI	EP	Z	22	53	42									
		S	ZNE		54	54									
	H	M	S	EPICENTRE			DEPTH	MAG							
FEB 07	08	28	57.9	13.9N	144.8E		138KM	5.4	MARIANA IS						
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE TE MAG
	SUV	EP	Z	08	37	09			46						
	AFI	EP	ZNE	08	37	46			51						
		E	NE		44	42									
		EL	NE		50	42									
	H	M	S	EPICENTRE			DEPTH	MAG							
FEB 07	10	39	02.8	22.5S	179.5W		532KM	4.1	S OF FIJI						
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE TE MAG
	AFI	EP	Z	10	41	27			11						
		ES	Z		43	21									
		ES	NE			27									
FEB 07	AFI	EP	Z	16	39	04									
		ES	ZNE			41									
		ET	ZNE		42	34									
FEB 07	AFI	EP	ZNE	18	47	29									
		IS	ZNE		48	03									

```
          H  M  S      EPICENTRE    DEPTH   MAG
FEB 07  23 49 21.5   17.8S 178.5W  571KM   3.9  FIJI
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
        SUV  EP      Z    23 50 41         3

FEB 08  AFI  EP      ZNE 07 43 07
              S      ZNE       28

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 08  15 35 42.8   58.3S  13.0W   33KM   5.1  S W ATLANTIC OCEAN
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
        SBA  ES      E    15 50 27        44
             ELQ     NE      53 40                                16 25
             ELR     NE      58 05                                21 18
FEB 08  AFI  E       ZNE 16 09 42
             E       ZNE     20 00
             EL      ZN      24 12

FEB 09  AFI  E       Z    08 45 07

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 09  15 24 47.2    2.9N  74.9W   58KM   6.3  COLOMBIA
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
        RAR  EP      ZE   15 37 28        86
             ES      ZNE     48 58
             ESS     ZNE     54 00
             ESSS    Z       57 07
             ELR     ZNE  16 05 22                  174 25
        AFI  EP      ZNE  15 38 16        97
             E       ZE      42 16
             EPPP    N       44 43
             ESKS    NE      48 56
             ES      N       50 20
             E       Z       51 04
             E       ZE      55 36
             ESS     NE      56 36
             ESSS    ZN   16 00 12
             ELQ     NE      06 18
             ELR     ZNE     10 12
        SBA  EP      ZNE  15 38 37        99

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 09  20 16 35.6   19.5S 176.1W  308KM   3.9  FIJI
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
        SUV  EP      Z    20 17 54         5
        AFI  IP      Z    20 18 04   D     7
             IS      NE      19 12

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 10  11 29 46.4    7.3S 128.5E   27KM   5.3  BANDA SEA
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
        AFI  EP      Z    11 39 55        59 -0.73                    6.5

FEB 11  AFI  EP      Z    03 39 09
             ES      ZNE     40 43

FEB 11  AFI  EP      ZNE  21 53 59
              S      ZNE     54 23

FEB 11  AFI  IP      Z    23 03 58   D
             IS      NE      04 16

FEB 11  AFI  IP      Z    23 59 47   U
             IS      NE   00 00 05

FEB 12  AFI  EP      Z    02 59 18
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             ES      NE   03 01 02
             E       ZNE     02 00
        RAR  EP      ZNE  03 00 16

FEB 12  AFI  EP      Z    06 13 35
             ES      NE      15 05

FEB 12  AFI  EP      Z    09 59 00
              S      ZNE        20

FEB 12  AFI  EP      ZNE  11 51 10
             ES      ZNE     52 05

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 12  17 54 35.9    5.9S 149.3E   95KM   5.2  NEW BRITAIN
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      Z    18 01 54        39

FEB 12  AFI  EP      ZNE  21 05 50
              S      ZNE     06 30
              T      ZNE     08 20

FEB 12  AFI  IP      Z    23 03 58   D
             IS      NE      04 16

FEB 13  AFI  EP      Z    07 49 51
             ES      NE      50 55
             ET      ZNE     56 15

FEB 13  AFI  EP      Z    18 15 43
             ES      NE      16 17

NO READINGS FROM AFI BETWEEN FEB 13 AND FEB 16

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 14  05 02 38.4   13.3S 171.3E  635KM   5.6  NEW HEBRIDES
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z    05 04 35         8
        RAO  EP      Z    05 06 20        19
             ES      Z       09 33

FEB 14  RAR  EP      ZNE  05 27 14.3
             ES      ZNE     29 36

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 14  18 13 14.4   19.4S 172.8W   33KM   4.9  TONGA
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z    18 15 18         8
        RAR  EP      ZNE  18 16 06.5      12
             ES      N       18 35

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 15  15 06 59.9   11.9S 165.6E   24KM   4.3  SANTA CRUZ IS
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z    15 10 25        14

          H  M  S      EPICENTRE    DEPTH   MAG
FEB 15  16 11 11.8    9.0S  71.3W  597KM   6.2  PERU-BRAZIL BORDER
                            H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        RAR  EP      ZNE  16 22 49        85
             ES      ZNE     32 20                 46 15
             ESS     ZNE     36 50
        SBA  IP      ZNE  16 22 58   D    88  1.37                        8.3
             E*PP    Z       25 07
             ES      ZNE     32 33
             E*SP    ZNE     34 03
             E*SSS   ZNE     42 11
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				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 15				19	32	21.0	24.6S 177.6W	70KM	4.9	S OF FIJI
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO	EP	Z	19	33	24			5	
	SUV	EP	Z	19	34	06			7	
	RAR	EP	ZNE	19	36	06			17	
		ES	N		39	25				
		ET	ZNE		51	29				
FEB 17	AFI	IP	Z	03	55	48	D			
		ES	NE		57	19				

				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 17				10	10	51.5	23.7S 175.2W	19KM	6.4	TONGA
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO	EP	Z	10	12	20			6	
		ES	Z		13	26				
	SUV	P	Z	10	12	54			8	
	AFI	EP	ZNE	10	13	14			10	
		IS	ZNE		15	14				
		T	ZNE		22	15				
	RAR	EP	ZNE	10	14	07			14	-0.18
		ES	ZNE		16	33				98 19
		ET	ZNE		28	30				
	SBA	EP	Z	10	20	29			55	
		ES	ZNE		28	13				
		EL	ZNE		36	00				
FEB 17	AFI	IP	Z	19	14	40	U			
		ES	NE		15	01				

				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 18				06	43	31.2	6.4S 130.1E	159KM	5.0	BANDA SEA
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	EP	Z	06	53	08			58	
FEB 18	AFI	EP	Z	12	09	39				
		ES	NE		10	32				
FEB 19	AFI	IP	Z	01	23	17	D			
		IS	NE			36				
FEB 19	AFI	EP	Z	03	44	44				
		ES	ZNE		45	21				

				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 19				14	21	52.8	21.7S 174.9W	33KM	4.4	TONGA
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP	Z	14	23	46			7	
	AFI	EP	Z	14	23	40			8	
		ES	ZNE		25	08				
		ET	ZNE		31	38				
	RAO	EP	Z	14	23	45			8	
		ES	Z		25	10				
	RAR	EP	ZNE	14	24	57			14	
		ES	N		27	36				
		ET	ZNE		54	25				
FEB 19	AFI	EP	Z	15	51	01				
		ES	ZNE			53				
FEB 19	AFI	EP	Z	16	47	48				
		ES	ZNE		48	21				
FEB 19	AFI	EP	Z	19	01	22				
		ES	NE		02	02				

				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 19				19	25	26.7	18.9S 174.0W	33KM	4.5	TONGA
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	EP	Z	19	26	39			5	
		ES	ZNE		27	27				
		ET	ZNE		31	05				
	SUV	EP	Z	19	27	17			7	
	RAR	EP	ZNE	19	28	29			14	

				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 19				22	14	35.3	9.2S 113.1E	80KM	6.2	S OF JAVA
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP	Z	22	25	00			64	
	AFI	IP	Z	22	26	01	U		73	-0.18 6.8
		ES	ZNE		35	24				
		ESS	N		39	42				
		ESSS	ZNE		43	18				
		EL	ZNE		49	12				
	SBA	EP	Z	22	26	04.2			74	
		ES	NE		35	28				
		ELQ	N		45	30				
		ELR	N		49	20				
	RAR	EP	Z	22	27	02			84	

				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 19				23	28	28.0	0.0N 124.2E	101KM	5.7	MOLUCCA SEA
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	EP	Z	23	38	58			65	-0.64 6.4
		ES	ZNE		47	36				
		ESS	ZNE		52	06				
	SBA	EP	Z	23	40	34.2			81	
		ES	NE		50	40				
		EL	NE	24	03	35				
FEB 20	AFI	EP	ZNE	16	24	16				
		S	ZNE			45				

				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 20				22	41	44.6	11.6S 166.3E	22KM	4.7	SANTA CRUZ IS
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP	Z	22	45	08			13	
FEB 21	AFI	EP	ZNE	11	39	49				
		S	ZNE		40	07				
FEB 21	AFI	EP	ZNE	15	04	06				
		ES	NE		06	48				
FEB 21	AFI	EP	ZE	18	52	19				
		ES	NE		53	36				
FEB 22	AFI	EP	Z	08	10	08				
		ES	ZNE		11	20				

				H	M	S	EPICENTRE	DEPTH	MAG	
FEB 22				13	54	34.7	11.8S 166.4E	84KM	4.8	SANTA CRUZ IS
							H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP	Z	13	57	51			13	
	AFI	EP	Z	13	59	04			21	-0.77 5.5
		E=PP	ZNE			16				
		ES	ZNE	14	03	02				
		EL	ZE		04	26				

	H M S	EPICENTRE	DEPTH	MAG									
FEB 22	18 26 46.7	19.5S 169.0E	87KM	5.6	NEW HEBRIDES								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z 18 28 57		9									
RAO	EP	Z 18 30 22		15									
AFI	EP	ZNE 18 31 19		19									
	E=PP	Z 43											
	ES	ZNE 34 36											
RAR	EP	ZNE 18 33 30		29									
	ES	N 39 03											
SBA	EP	ZN 18 36 34		58	-0.01								7.2
	ES	NE 44 36											
	ELR	ZN 54 35											

NO READINGS FROM AFI BETWEEN FEB 22 AND FEB 24

	H M S	EPICENTRE	DEPTH	MAG									
FEB 23	05 58 28.5	21.6S 174.4W	21KM	4.8	TONGA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAR	EP	Z 06 01 30		14									
	ES	N 04 40											
	ET	N 16 12											

	H M S	EPICENTRE	DEPTH	MAG									
FEB 23	06 17 46.3	22.9S 176.2W	75KM	4.8	S OF FIJI								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAR	EP	ZNE 06 21 11		15									
	ET	ZNE 36 18											

	H M S	EPICENTRE	DEPTH	MAG									
FEB 24	05 14 08.0	23.8S 175.5W	33KM	4.7	TONGA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 05 16 31		10									
	ES	NE 18 11											
RAR	EP	Z 05 17 23.2		15									

	H M S	EPICENTRE	DEPTH	MAG									
FEB 24	07 08 32.1	23.9S 175.4W	33KM	4.9	TONGA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAR	EP	Z 07 11 47.5		15									
FEB 24 AFI	EP	Z 19 09 45											
	ES	NE 10 33											
FEB 24 AFI	IP	Z 21 10 22	D										
	S	ZNE 41											
FEB 24 AFI	IP	ZE 21 18 27	DE										
	S	NE 53											
FEB 24 AFI	EP	Z 23 47 23											
	ES	ZNE 48 01											
FEB 25 AFI	EP	Z 07 02 34											
	ES	NE 51											

	H M S	EPICENTRE	DEPTH	MAG									
FEB 25	11 20 47.4	0.0N 123.9E	70KM	5.8	N CELEBES								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 11 31 21		65	-0.59								6.5
	ES	ZE 40 04											
	EL	ZE 51 42											
SBA	EP	Z 11 32 57		81									

	H M S	EPICENTRE	DEPTH	MAG									
FEB 25	11 38 46.0	0.1S 123.9E	105KM	5.7	N CELEBES								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 11 49 38		65									
SBA	EP	Z 11 50 52		81									
FEB 25 AFI	EP	Z 11 58 29											

	H M S	EPICENTRE	DEPTH	MAG									
FEB 25	15 46 51.8	19.6S 176.0W	358KM	4.5	TONGA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	NE 15 48 12		7									
	ES	NE 49 19											
	ET	NE 53 51											
RAO	ES	Z 15 50 41		10									
FEB 26 AFI	IP	E 03 07 12	U										
	ES	ZNE 39											

	H M S	EPICENTRE	DEPTH	MAG									
FEB 26	11 57 54.8	24.3S 179.8E	535KM	4.4	S OF FIJI								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	EP	Z 11 59 22		5									
	ES	Z 12 00 30											
SUV	EP	Z 11 59 33		6									
FEB 26 AFI	EP	Z 20 45 31											
	ES	ZNE 46 15											
FEB 27 AFI	EP	ZNE 01 52 37											
	ES	ZNE 53 14											
	ET	ZNE 55 48											
FEB 27 AFI	EP	Z 02 21 37											
	ES	ZNE 22 16											
	ET	ZNE 24 46											
FEB 27 AFI	EP	ZNE 04 13 16											
	ES	ZNE 46											

	H M S	EPICENTRE	DEPTH	MAG									
FEB 27	11 13 02.1	23.9S 175.3W	33KM	4.6	TONGA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	ES	Z 11 15 32		6									
SUV	EP	Z 11 15 03		8									
AFI	EP	Z 11 15 23		10									
	ES	ZNE 17 13											
	ET	ZNE 25 06											
FEB 27 AFI	EP	Z 12 00 54											
	ES	ZNE 01 48											
FEB 27 AFI	EP	Z 13 46 51											
	ES	NE 48 24											
FEB 28 AFI	IP	Z 05 50 54											
	ES	ZNE 51 12											

	H M S	EPICENTRE	DEPTH	MAG									
FEB 28	09 37 18.0	32.7N 141.7E	23KM	5.5	JAPAN								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 09 47 54		64									
	ES	NE 56 36											
	ESS	NE 10 03 30											
	EL	NE 06 30											

				H M S	EPICENTRE	DEPTH	MAG	
FEB 28				12 27 34.1	21.2S 179.1W	591KM	4.8	FIJI
					H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP	Z	12 29 02			4	
	AFI	EP	ZNE	12 29 52			10	-0.84
		ES	ZNE	31 42				
MAR 01	AFI	EP	ZE	02 27 20				
		ES	NE	28 16				
MAR 01	RAO	EP	Z	05 31 40				
		S	Z	32 54				
MAR 01	AFI	IP	ZE	06 43 59	UW			
		S	ZNE	44 14				
MAR 01	AFI	EP	Z	09 35 52				
		ES	NE	38 23				
MAR 01	AFI	IP	Z	10 35 04	U			
		EIS	ZNE	28				
				H M S	EPICENTRE	DEPTH	MAG	
MAR 01				14 24 26.5	1.5N 126.4E	49KM	5.3	MOLUCCA PASSAGE
					H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA	EP	ZN	14 36 39			82	
MAR 02	C8Z	EP	Z	01 28 53				
		ES	Z	29 40				
		E	Z	31 25				
				H M S	EPICENTRE	DEPTH	MAG	
MAR 02				02 47 31.7	0.3S 78.7W	121KM	5.8	ECUADOR
					H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	E(PCP)	Z	03 00 35			93	
				H M S	EPICENTRE	DEPTH	MAG	
MAR 02				05 58 28.2	24.6S 179.6W	480KM	4.5	S OF FIJI
					H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO	EP	Z	05 59 48			5	
		ES	Z	06 00 42				
	SUV	IP	Z	06 00 06	U		7	
	AFI	EP	ZNE	06 01 10			13	-0.87
		ES	ZNE	03 20				
		E(T)	ZNE	11 22				
MAR 03	AFI	IP	ZNE	06 24 14	U			
		S	ZNE	34				
MAR 03	AFI	EP	ZNE	07 27 24				
		ES	NE	28 30				
		ET	ZNE	33 17				
				H M S	EPICENTRE	DEPTH	MAG	
MAR 03				08 52 48.8	0.2S 129.8E	47KM	5.0	HALMAHERA
					H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	ES	NE	09 11 12			59	
		EL	NE	18 30				
		EL	ZE	21 12				
MAR 03	AFI	EP	ZNE	10 14 04				-1.08
				H M S	EPICENTRE	DEPTH	MAG	
MAR 04				05 09 23.9	21.4N 121.9E	126KM	5.5	TAIWAN
					H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	EP	Z	05 20 49			74	0.31 7.2

		ES	ZNE	30 10				
		ESS	NE	34 36				
		EL	ZNE	39 12				
			H M S	EPICENTRE	DEPTH	MAG		
MAR 04			06 16 21.9	18.5S 175.4W	225KM	5.7	TONGA	
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	AFI	EP	ZNE	06 17 42		6		
		ES	ZNE	18 31				
	SUV	EP	Z	06 17 52		6		
		ES	Z	18 11				
	RAO	EP	Z	06 18 54		11		
		ES	Z	20 50				
	RAR	IP	ZNE	06 19 41.5U		15	0.87	
		ES	ZNE	22 25				
		ET	ZNE	32 30				
MAR 04	AFI	IP	ZNE	12 18 27	UN			
		S	ZNE	41				
			H M S	EPICENTRE	DEPTH	MAG		
MAR 04			17 23 19.2	19.2S 174.0W	49KM	4.5	TONGA	
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	AFI	EP	ZNE	17 24 37		6		
		ES	ZNE	25 38				
	SUV	EP	Z	17 25 05		7		
	RAR	EP	ZNE	17 26 30		14		
		ET	ZNE	40 25				
MAR 04	SUV	EP	Z	17 56 01				
			H M S	EPICENTRE	DEPTH	MAG		
MAR 04			17 58 06.4	39.2N 24.6E	33KM	5.9	AEGEAN SEA	
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	SUV	EPKP	Z	18 17 54		149		
	AFI	EPKP	Z	18 17 49		151		
		EPP	Z	21 32				
		E(PPP)	ZE	31 30				
		E(SKKS)	NE	34 30				
		ESS	ZNE	40 48				
		E	ZN	45 48				
		ESSS	E	47 00				
MAR 05	AFI	IP	Z	05 30 56	U			
		S	ZNE	31 15				
MAR 05	AFI	EP	ZNE	14 47 20				
		IS	ZNE	41				
			H M S	EPICENTRE	DEPTH	MAG		
MAR 06			08 11 58.8	22.7S 177.5W	227KM	4.7	S OF FIJI	
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	RAO	ES	Z	08 14 46		7		
	AFI	EP	ZNE	08 14 23		10		
		EIS	ZNE	16 05				
	RAR	EP	ZNE	08 15 35		17		
		ES	ZNE	18 32.5				
		ET	ZNE	30 28				
MAR 06	AFI	EP	ZNE	18 04 49				
		S	ZNE	05 15				
			H M S	EPICENTRE	DEPTH	MAG		
MAR 07			03 44 04.4	10.8S 166.3E	28KM	4.7	SANTA CRUZ IS	
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG	
	AFI	E	N	03 51 18		22		
		EL	ZE	54 18				

MAR 07	AFI	IP	ZNE	04	22	08	UW									
		ES	ZNE			48										
MAR 07	AFI	EP	Z	12	12	32										
		ES	ZNE		13	12										
		ET	ZNE		14	12										
MAR 07	AFI	EP	ZNE	15	45	36										
		S	ZNE			54										
MAR 07	AFI	IP	ZNE	16	56	49	D									
		ES	ZNE		57	38										
MAR 08	AFI	EP	ZNE	03	04	12										
		S	ZNE			46										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 08	22	52	13.6	12.3S 166.4E	61KM	4.8	SANTA CRUZ IS								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
AFI	EP	Z	22	59	07		21	-0.64							5.6

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 08	23	07	15.7	17.6S 177.0W	162KM	4.2	FIJI								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
AFI	EP	ZNE	23	09	17		6			6	2	8	3	11	2

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 09	03	24	18.9	10.7S 166.3E	30KM	5.6	SANTA CRUZ IS								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
AFI	ES	ZNE	03	33	06		22								
MAR 09	AFI	EP	ZNE	05	12	01										
		S	ZNE			29										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 09	05	38	14.9	10.7S 166.1E	33KM	5.2	SANTA CRUZ IS								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
AFI	E	ZE	05	48	18		22								
	EL	ZNE	06	01	12										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 09	06	58	35.7	10.6S 166.3E	30KM	6.0	SANTA CRUZ IS								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
SUV	EP	Z	07	01	56		14								
AFI	EP	ZNE	07	03	29		22								
	ES	ZNE		07	28										
	EL	ZE		08	54										
SBA	EP	ZN	07	09	30		67								
	ES	N		19	00										
	ESS	N		22	30										
	ELQ	ZNE		26	25										
	ELR	ZN		30	20										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 09	17	58	33.2	15.5S 175.5W	95KM	4.3	TONGA								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
AFI	EP	ZNE	17	59	21		4								

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 09	18	02	45.7	10.7S 166.3E	59KM	6.4	SANTA CRUZ IS								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
SUV	EP	Z	18	06	08		14								
SBA	ESS	N	18	27	20		67								
	ELR	ZN		35	00										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 09	18	27	08.1	15.6S 175.3W	28KM	4.6	TONGA								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
AFI	EP	ZNE	18	28	02		4								
	(T)	ZNE		31	24										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 09	21	25	34.6	21.5S 176.3W	283KM	4.8	FIJI								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
SUV	EP	Z	21	26	56		6								
RAO	EP	Z	21	27	11		8								
	ES	Z		28	38										
AFI	EP	ZNE	21	27	17		9								
	ES	ZNE		28	43										
RAR	ET	ZNE	21	43	23		15								
MAR 10	AFI	EP	Z	00	19	54										
MAR 10	AFI	IP	ZNE	05	46	23	D		-0.53							
		ES	ZNE		47	08										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 10	06	33	53.3	23.0S 179.7W	551KM	4.2	S OF FIJI								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
SUV	EP	Z	06	35	21		5								
RAO	P	Z	06	35	32		6								
	ES	Z		36	41										
AFI	EP	ZNE	06	36	25		12								
	ES	ZNE		38	36										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 10	10	13	21.9	17.6S 178.6W	517KM	4.2	FIJI								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
AFI	EP	ZNE	10	15	22		8								
	ES	NE		16	50										
MAR 10	AFI	EP	Z	12	27	08										
		S	ZNE		28	10										
MAR 10	AFI	EP	ZNE	17	19	47										
		S	ZNE		20	14										

	H	M	S	EPICENTRE	DEPTH	MAG									
MAR 11	08	33	27.4	10.7S 166.2E	49KM	6.1	SANTA CRUZ IS								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
SUV	EP	Z	08	36	49		14								
AFI	EP	ZNE	08	38	54		22								
	ES	ZNE		43	00										
	EL	ZE		44	30										
	EL	N		45	18										
SBA	IP	Z	08	44	17.2U		67	-0.50							6.6
	ES	ZNE		53	20										
	ESS	ZN		58	00										
	ELR	ZN	09	05	30										
MAR 11	AFI	EP	Z	09	37	59										
		ES	ZNE		38	54										
MAR 11	AFI	EP	Z	17	55	28										
		ES	NE		56	21										
		ET	ZNE		59	36										
MAR 12	AFI	EP	ZNE	01	01	21										
		S	ZNE		02	06										
MAR 12	AFI	IP	ZNE	01	52	47	D									

			S	ZNE	53 27											
MAR 12	AFI	EP		Z	02 09 02											
		S		ZNE	23											
MAR 12	AFI	EP		ZNE	15 19 22											
		ES		ZNE	20 21											
MAR 13	AFI	EP		Z	00 11 58			-0,87								
	H M S		EPICENTRE		DEPTH	MAG										
MAR 13	07 37 37,5		20.6S 178,4W		586KM	4,6	FIJI									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	IP	Z	07 39 03.1		4										
	AFI	EP	Z	07 39 54		9										
		ES	ZNE	41 33												
	RAO	ES	Z	07 41 27		9										
	RAR	EP	ZNE	07 41 09.5		17										
MAR 13	AFI	EP	Z	14 25 18												
		ES	NE	26 52												
	H M S		EPICENTRE		DEPTH	MAG										
MAR 13	16 06 54.3		40.1S 74.5W		33KM	6.0	COAST S CHILE									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EP	Z	16 16 36		57										
		ES	N	24 34												
		ELQ	N	31 05												
		ELR	Z	34 25												
	RAR	EP	ZNE	16 18 20		73										
MAR 14	SBA	EP	ZNE	20 32 10.5												
MAR 14	SUV	EP	Z	20 41 35												
	H M S		EPICENTRE		DEPTH	MAG										
MAR 14	23 24 47.8		23.0S 178.7E		650KM	4.9	S OF FIJI									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z	23 26 18		5										
	RAO	EP	Z	23 26 36		7										
		ES	Z	28 01												
	AFI	EP	Z	23 27 27		13										
		ES	ZNE	29 33												
MAR 15	SBA	EP	ZNE	01 05 49												
MAR 15	RAR	EP	ZNE	02 55 09												
MAR 15	AFI	EP	Z	04 06 01												
		S	ZNE	22												
MAR 15	AFI	EP	Z	18 47 49												
		ES	ZNE	48 43												
MAR 15	SBA	EP	ZNE	18 53 13												
		ES	Z	56 34												
	H M S		EPICENTRE		DEPTH	MAG										
MAR 16	12 09 37,7		22.1S 170,5E		66KM	5,4	LOYALTY IS									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z	12 11 40		8										
	AFI	EP	ZNE	12 13 49		19		6	2	6	2	11	2	6,7		
		ES	NE	17 07												
		ESS	N	39												
		EL	ZE	18 18												
	RAR	ELR	ZNE	12 22 30		28										
	SBA	EP	Z	12 19 11		56										

MAR 16	AFI	EP	ZNE	20 35 00												
		ES	ZNE	31												
MAR 16	AFI	EP	ZNE	23 32 05												
		S	ZNE	26												
	H M S		EPICENTRE		DEPTH	MAG										
MAR 17	11 24 45.7		3.6S 150.9E		33KM	5.4	NEW IRELAND									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	ES	ZNE	11 38 02		38										
		ESS	ZNE	40 51												
		EL	ZNE	42 36												
	RAR	EP	ZNE	11 33 47		51										
		ES	ZNE	41 05								20	11		6.9	
		ELQ	N	47 03												
		ELR	Z	49 00												
	SBA	EP	Z	11 36 25.5		75										
		ES	ZNE	46 00												
		ESS	ZN	50 55												
		ELQ	N	56 15												
		ELR	ZNE	12 00 00												
MAR 17	AFI	EP	ZNE	13 35 17												
		S	ZNE	36												
	H M S		EPICENTRE		DEPTH	MAG										
MAR 17	13 48 14.4		7.9S 155.5E		32KM	5.3	SOLOMON IS									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	ZNE	13 54 45		33	-0,68								6,2	
MAR 17	AFI	IP	Z	17 18 52	U											
		ES	ZNE	19 11												
	H M S		EPICENTRE		DEPTH	MAG										
MAR 18	09 27 42,7		20.7S 179,4W		650KM	4,9	FIJI									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	IP	Z	09 29 07,0	U	3	0,15									
	AFI	EP	ZNE	09 29 57		10	-0,33									
		ES	ZNE	31 46												
	H M S		EPICENTRE		DEPTH	MAG										
MAR 19	01 10 45.8		6.7S 129,9E		60KM	5,9	BANDA SEA									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	IP	ZNE	01 20 33		58				44	2	22	2	33	2	8,3
		EL	ZE	40 54												
	RAR	EP	ZNE	01 21 50		69										
	SBA	EP	ZNE	01 22 15		74										
		ES	ZNE	31 38												
		ELR	ZNE	46 00												
	H M S		EPICENTRE		DEPTH	MAG										
MAR 19	04 01 36.7		45.4N 151.3E		33KM	5.7	KURILE IS									
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	Z	04 12 39		68										
		ES	ZNE	21 33												
		ESS	ZNE	25 26												
		E(SSS)	N	27 48												
		ELQ	ZNE	29 36												
		ELR	ZNE	31 06												
	RAR	EP	ZNE	04 13 50		80										
		ES	ZNE	23 45												
		ELR	ZNE	37 27												
	SBA	EPP	ZN	04 22 24		123										
		EPS	ZN	32 18												
		ESS	NE	39 00												
		ESSS	NE	42 05												

		ELQ	E	53 05											
		ELR	ZN	59 00											
MAR 19	AFI	EP	Z	07 04 07											
		ES	NE	54											
	H M S	EPICENTRE	DEPTH	MAG											
MAR 20	08 47 47.5	6.2S 148.3E	52KM	5.1	NEW BRITAIN										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	Z 08 55 18		40										
	H M S	EPICENTRE	DEPTH	MAG											
MAR 20	13 31 34	45.6N 151.4E	51KM	5.7	KURILE IS										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	Z 13 42 35		68										
		ES	ZN 51 33												
		ES	E 48												
		EL	ZNE 14 01 06												
MAR 20	AFI	EP	ZNE 18 08 06												
	H M S	EPICENTRE	DEPTH	MAG											
MAR 20	19 07 25.2	22.1S 170.6E	26KM	5.5	LOYALTY IS										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z 19 09 30		8										
	AFI	EP	ZNE 19 11 42		19	-0.20									6.0
		ES	ZNE 15 10												
		EL	ZE 16 42												
	SBA	EP	ZN 19 17 04		56										
		ELR	ZN 34 00												
	H M S	EPICENTRE	DEPTH	MAG											
MAR 21	08 32 37.0	17.5S 178.4W	447KM	3.8	FIJI										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	Z 08 34 42		7										
		ES	NE 36 03												
MAR 21	AFI	EP	Z 08 39 21												
	H M S	EPICENTRE	DEPTH	MAG											
MAR 21	11 24 44.6	23.8S 175.2W	33KM	5.4	TONGA										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	RAO	EP	Z 11 26 12		6										
		ES	Z 27 17												
	SUV	EP	Z 11 26 46		8										
	AFI	EP	ZNE 11 27 29		10										
		ES	ZNE 29 13												
		ET	ZNE 36 56												
	RAR	EP	ZNE 11 27 58.5		14	0.22									
		ES	ZNE 30 20												
	SBA	EP	Z 11 34 14.5		55										
MAR 21	AFI	E(S)	NE 14 46 39								14	15	8	14	
MAR 21	AFI	IP	ZNE 18 38 13	UNE											
		S	ZNE 31												
	SUV	EP	Z 18 39 14												
MAR 22	AFI	EP	ZNE 04 01 41												
MAR 22	AFI	EP	ZNE 10 02 41												
		ES	ZN 03 19												
		ES	E 27												
		ET	ZNE 06 07												

	H M S	EPICENTRE	DEPTH	MAG											
MAR 22	13 00 26.9	5.4S 146.4E	70KM	5.3	EAST NEW GUINEA										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	ZE 13 08 14		42										
		EP	N 20												
	RAR	EP	ZE 13 09 50		54										
	SBA	EP	ZNE 13 11 53.5		73										
		ES	Z 20 25.5												
MAR 22	AFI	EP	Z 14 44 59												
		ES	ZNE 46 36												
		ET	ZNE 48 43												
MAR 22	AFI	EP	Z 15 13 06												
		ES	ZNE 47												
		ET	ZNE 16 44												
MAR 22	RAO	EP	Z 17 48 11												
		ES	Z 29												
	H M S	EPICENTRE	DEPTH	MAG											
MAR 22	21 17 34.3	56.1S 27.6W	23KM	5.4	SANDWICH IS										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EP	Z 21 25 57		46										
	H M S	EPICENTRE	DEPTH	MAG											
MAR 22	23 46 20.6	14.8S 177.0W	33KM	4.7	FIJI										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	ZNE 23 47 30		5	-0.51							11	2	
		ES	ZNE 48 23												
		ET	ZNE 51 47												
	RAR	EP	Z 23 50 25		18										
MAR 23	AFI	IP	ZNE 00 19 05	U											
		S	ZNE 25												
	H M S	EPICENTRE	DEPTH	MAG											
MAR 23	00 35 43.1	17.0S 177.0W	55KM	4.8	FIJI										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z 00 36 48		4										
	AFI	EP	ZNE 00 37 05		6										
		ES	NE 38 06										32	15	
	RAR	EP	ZNE 00 39 37		17										
		ET	ZNE 56 30												
MAR 23	SUV	EP	Z 10 29 08												
	AFI	EP	ZNE 10 29 53			-0.90									
		ES	ZNE 31 43												
MAR 23	SBA	EP	Z 16 11 26												
		ES	ZN 15 40												
	H M S	EPICENTRE	DEPTH	MAG											
MAR 24	09 00 19.3	6.0S 112.3E	600KM	6.0	JAVA SEA										
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z 09 10 05		66										
	AFI	EP	ZNE 09 11 01		75										
		E=PP	ZNE 13 01												
		ES	ZNE 19 54												
		E=SS	NE 23 28												
		E(=SSS)	NE 27 48												
		E(SSS)	NE 30 04												
	SBA	EP	ZN 09 16 11.2		77										
		EPP	ZN 14 13												
		ES	ZN 20 17												
		E=SS	ZN 24 00												

		ESS	ZN	25 29														
	RAR	EP	ZNE	09 12 01			86											
MAR 24	AFI	IP	ZNE	09 55 16	U													
		ES	ZNE	56 51														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 24	11 46 13.9		6.0S 112.3E		600KM	5.3	JAVA SEA											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	Z	11 56 54		75	-1.22							5.4				
	SBA	EP	Z	11 57 07.8		77												
	H M S		EPICENTRE		DEPTH	MAG												
MAR 24	22 59 47.3		20.2S 179.0W		654KM	4.7	FIJI											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SUV	IP	Z	23 01 09.4	U	3	0.97											
		E	Z	17														
	AFI	EP	ZNE	23 02 00		9												
		ES	ZNE	03 45														
	RAO	EP	Z	23 02 00		9												
		ES	Z	03 49														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 25	22 47 58.4		45.5N 151.4E		41KM	5.5	KURILE IS											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	NE	23 21 14		68												
		S	NE	40														
		(T)	NE	23 32														
MAR 26	AFI	EP	Z	04 05 54														
		S	NE	06 24														
MAR 26	AFI	EP	ZNE	11 22 17														
		S	ZNE	47														
MAR 26	SBA	EP	ZNE	15 54 25														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 26	21 09 55.8		35.7S 179.5W		33KM	5.0	E. OF NORTH I. N. Z.											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	Z	21 15 03		23												
	SBA	EP	Z	21 17 52		43												
	H M S		EPICENTRE		DEPTH	MAG												
MAR 27	08 26 34.5		8.9S 71.3W		603KM	5.3	WEST BRAZIL											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SBA	EP	Z	08 38 22		88												
		E=PP	Z	40 29.5														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 27	08 58 25.5		38.4N 116.5E		61KM	5.4	NE CHINA											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SBA	EPKP	Z	09 17 11		120												
	H M S		EPICENTRE		DEPTH	MAG												
MAR 27	09 24 54.3		58.7S 149.4E		33KM		WEST MACQUARIE IS											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SBA	EP	ZNE	09 29 28		20												
	H M S		EPICENTRE		DEPTH	MAG												
MAR 27	10 01 42.0		16.5S 168.1E		11KM	5.5	NEW HEBRIDES											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SUV	EP	Z	10 04 14		10												
	AFI	EP	ZNE	10 06 11		20												
		ES	E	09 21														
		ES	ZN	46														
	RAO	EP	Z	10 05 57		18												

	RAR	ES	ZE	10 11 52			31											
		ELQ	N	14 40														
		ELR	ZE	16 10														
	SBA	EP	ZNE	10 12 03			61											
		ES	ZNE	20 30														
		ELQ	NE	27 35														
		ELR	ZN	30 36														
MAR 27	AFI	IP	Z	13 15 05	U													
		S	ZNE	25														
MAR 28	AFI	EP	ZNE	05 16 04														
		EP	ZNE	39														
MAR 28	SBA	EP	ZNE	07 32 24														
MAR 28	AFI	EP	ZNE	10 18 24														
		ES	ZNE	58														
MAR 29	RAO	IP	Z	01 48 57.4	D													
	H M S		EPICENTRE		DEPTH	MAG												
MAR 29	10 33 38.4		2.4S 138.5E		38KM	5.5	W NEW GUINEA											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	E(SSS)	N	10 55 24		50												
		EL	Z	11 00 00														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 29	13 12 52.7		16.5S 168.1E		33KM	4.9	NEW HEBRIDES											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	ES	NE	13 21 06		20												
		EL	Z	22 06														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 29	17 09 21.9		20.1S 179.0W		610KM	4.6	FIJI											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SUV	IP	Z	17 10 49.9	U	3												
	RAO	EP	Z	17 11 34		9												
		ES	Z	13 18														
	AFI	EP	Z	17 11 35		9												
		ES	ZNE	13 20														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 29	19 53 57.8		15.2S 172.9W		33KM	4.7	SAMOA											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	P	ZNE	19 54 25		2												
		S	ZNE	42														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 30	02 08 02.4		11.0S 115.5E		33KM	6.0	S OF BALI IS											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	ZNE	02 19 25		71	-0.33							6.8				
		ES	ZNE	28 41														
		EL	N	36 12														
		EL	ZE	37 30														
	SBA	EP	ZNE	02 19 21.8		72												
		ES	ZNE	28 30														
		ESS	ZNE	32 27														
		ELR	ZNE	41 25														
	H M S		EPICENTRE		DEPTH	MAG												
MAR 30	23 04 45.8		16.9S 176.9W		33KM	5.1	FIJI											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SUV	EP	Z	23 06 03		5												
	AFI	EP	ZNE	23 07 51		6												
		ES	ZNE	08 58														
	RAR	EP	ZNE	23 08 40		17												

		ELQ	N	12 00											
		ELR	ZE	33											
	SBA	EP	ZN	23 15 04.5		62									
		ELR	ZN	33 45											
		H M S	EPICENTRE		DEPTH	MAG									
MAR 31	02 15 39.2		14.7S 167.5E		152KM		NEW HEBRIDES								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	Z	02 25 53.5		63									
		H M S	EPICENTRE		DEPTH	MAG									
MAR 31	10 29 43.5		35.7S 102.7W		33KM	4.9	S PACIFIC OCEAN								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	ELQ	N	10 53 00		56									
		ELR	Z	55 47											
	AFI	E(SSS)	NE	10 56 48		65									
		EL	ZE	59 42											
MAR 31	AFI	EP	Z	16 59 14											
		ES	NE	17 00 10											
		H M S	EPICENTRE		DEPTH	MAG									
MAR 31	20 05 18.9		15.4S 167.5E		132KM	5.3	NEW HEBRIDES								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SUV	EP	Z	20 08 01		11	0.44								
	AFI	EP	ZNE	20 10 24		20		17	2	11	2	11	2	7.1	
	RAO	EP	Z	20 09 39		19									
	AFI	ES	ZNE	20 14 12		20									
	SBA	IP	ZNE	20 15 30.8		62									
		H M S	EPICENTRE		DEPTH	MAG									
APR 01	05 54 19.1		45.8N 151.8E		40KM	5.7	KURILE IS								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	Z	06 09 05		68									
		ES	ZN	14 11											
		ES	E	27											
		ESS	N	17 48											
		E(SSS)	E	22 18											
		EL	ZNE	25 48											
APR 01	SBA	E(P)	N	06 32 15											
		ELR	ZN	52 10											
		H M S	EPICENTRE		DEPTH	MAG									
APR 01	10 41 00.2		4.6S 105.8W		33KM	5.0	N EASTER IS								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	Z	10 52 56		66									
		ES	N	11 01 39											
		ES	E	54											
		E	Z	02 13											
		EL	ZE	11 48											
	SBA	ES	N	11 04 11		85									
		ESS	N	09 52											
		ELQ	N	16 37											
		ELR	ZE	21 31											
		H M S	EPICENTRE		DEPTH	MAG									
APR 01	12 23 35.5		45.7N 151.8E		40KM	5.9	KURILE IS								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	ES	ZNE	12 45 11		68									
		EL	E	54 54											
		EL	ZN	55 48											
	SBA	ESS	NE	13 01 00		124									
		ELR	ZN	21 37											
APR 01	AFI	EP	ZE	15 33 12											
		ES	NE	34 43											

		H M S	EPICENTRE		DEPTH	MAG									
APR 02	01 53 50.5		20.4S 173.8W		33KM	4.6	TONGA								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE	01 55 18		7									
		ES	ZNE	56 20											
		ET	ZNE	02 01 32											
	RAR	EP	ZNE	01 56 44		13									
	SBA	EP	Z	02 03 46		58									
		EPKKP	ZNE	25 33											
APR 02	AFI	ES	NE	17 35 34											
		ET	ZNE	44 41											
		H M S	EPICENTRE		DEPTH	MAG									
APR 02	17 27 10.6		25.0S 175.5W		33KM	4.9	S OF TONGA								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
		EP	Z	33 34											
	RAR	EP	ZNE	17 30 28		15									
		H M S	EPICENTRE		DEPTH	MAG									
APR 02	17 40 38.8		6.3S 148.8E		37KM	5.0	NEW BRITAIN								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE	17 52 01		39									
		ES	ZNE	57 58											
		EL	ZNE	18 01 12											
		EL	ZE	03 54											
	SBA	ES	ZNE	18 01 27		72				1	20				
		ESSS	ZN	09 54											
		ELR	ZNE	14 55						1	20	2	20	1	20
		H M S	EPICENTRE		DEPTH	MAG									
APR 03	08 04 15.4		6.1S 151.5E		16KM		NEW BRITAIN								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZE	08 10 09		37									
		ES	NE	15 57											
		EL	ZNE	18 48											
	SBA	EP	ZNE	08 15 39		72	-1.60								5.6
		ES	ZNE	25 10											
		E	ZN	40 17											
		ESKKS	E	42 08											
		EPKPPKP	ZN	43 20											
		H M S	EPICENTRE		DEPTH	MAG									
APR 03	12 58 40.9		20.2S 173.7W		48KM	5.3	TONGA								
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE	13 00 04		7									
		ES	ZNE	01 19											
		ET	ZNE	06 18											
	SUV	EP	Z	13 00 36		8									
	RAO	EP	Z	13 00 57		10									
		ES	Z	02 34											
	RAR	EP	ZNE	13 01 34		13									
		EPP	ZE	37.5								32	14		
		ES	N	03 50											
		ESS	ZNE	04 20											
		ELR	ZNE	05 00								88	10		
		ESCS	ZNE	15 19											
		ET	ZNE	16 20											
	SBA	EP	ZNE	13 08 27		58	-1.41								5.8
		ES	ZNE	16 42											
		ELQ	NE	23 50											
		ELR	ZNE	25 43						2	19	2	19		

	H M S	EPICENTRE	DEPTH	MAG	
APR 04	00 37 26.1	2.3S 138.7E	11KM	5.6	W NEW GUINEA

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	ES	ZNE 00 58 42		50								
	E	ZN 01 02 00										
	EL	N 03 54										
	EL	ZE 05 06										
SBA	EP	ZNE 00 49 21		77	-1.22							5.9
	ELQ	NE 01 13 00										
	ELR	ZNE 15 30										

	H M S	EPICENTRE	DEPTH	MAG	
APR 04	01 19 05.8	17.2S 178.5W	371KM	4.4	FIJI

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 01 20 50		7								
	ES	ZNE 22 13										
SBA	IP	ZNE 01 28 44.0D		61	-0.61							6.0

	H M S	EPICENTRE	DEPTH	MAG	
APR 04	03 54 26.2	45.5N 152.2E	42KM	5.0	KURILE IS

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 04 09 34		123								

	H M S	EPICENTRE	DEPTH	MAG	
APR 04	04 15 40.8	50.1S 127.4E	33KM	4.5	S OF AUSTRALIA

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	Z 04 22 02		31								
	ELR	ZNE 30 40										

	H M S	EPICENTRE	DEPTH	MAG	
APR 04	09 06 01.1	33.4N 137.5E	353KM	5.2	S HONSHU JAPAN

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 09 16 18		67								

	H M S	EPICENTRE	DEPTH	MAG	
APR 05	02 34 11.1	20.0N 147.1E	50KM	5.9	MARIANA IS

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 02 43 04		53								
	E	NE 54 30										
	EL	Z 56 30										

	H M S	EPICENTRE	DEPTH	MAG	
APR 05	06 55 29.1	19.2S 168.6E	48KM	4.6	NEW HEBRIDES

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	Z 07 05 24		59								

	H M S	EPICENTRE	DEPTH	MAG	
APR 05	11 43 49.3	17.7S 178.4W	480KM	4.3	FIJI

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 11 45 52		7								
	ES	NE 47 25										

	H M S	EPICENTRE	DEPTH	MAG	
APR 05	21 30 53.2	17.6S 178.2W	546KM	4.4	FIJI

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z 21 31 57		3								
AFI	IP	Z 21 32 42	D	7	-0.55							
RAO	P	Z 21 33 26		12								
	ES	Z 35 32										
SBA	EP	Z 21 40 14		61								

	H M S	EPICENTRE	DEPTH	MAG	
APR 05	22 29 35.0	53.2S 140.6E	33KM	5.0	W OF MACQUARIE IS

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 22 35 07		26								

	H M S	EPICENTRE	DEPTH	MAG	
APR 05	23 33 06.0	31.1S 178.2W	60KM	5.2	KERMADEC IS

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	EP	Z 23 33 32		2								
AFI	EP	Z 23 37 01		18								
	ES	NE 40 05										
	ET	ZNE 55 04										
SBA	EP	Z 23 41 37		47								

	H M S	EPICENTRE	DEPTH	MAG	
APR 08	05 35 17.1	19.9S 178.6W	616KM	5.3	FIJI

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z 05 36 28		3								
AFI	EP	ZNE 05 37 22		9								
	ES	ZNE 39 02										
RAO	EP	Z 05 37 27		9								
	ES	Z 39 13										
RAR	EP	ZNE 05 38 49.5		18	-0.41							5.9
SBA	IP	ZNE 05 44 18.0U		58	-1.04							5.3
	I*PP	ZN 46 16.5U										
	E*SP	Z 47 14										

	H M S	EPICENTRE	DEPTH	MAG	
APR 09	00 05 07.0	4.0S 135.8E	15KM	5.1	W NEW GUINEA

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 00 14 25		53								
	ES	E 22 00										
	E	N 24 18										
	E	Z 26 00										
	EL	ZNE 28 00										
SBA	EP	ZN 00 16 55		76								

	H M S	EPICENTRE	DEPTH	MAG	
APR 09	01 27 57.6	19.7S 178.0W	415KM	4.5	FIJI

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 01 29 55		8								
	ES	ZNE 31 23										
RAO	ES	Z 01 31 53		10								
SBA	EP	Z 01 37 16.6		59								

	H M S	EPICENTRE	DEPTH	MAG	
APR 09	06 30 30.1	20.9S 179.3W	650KM	4.7	FIJI

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	P	Z 06 32 32		8								
	ES	Z 34 13										

	H M S	EPICENTRE	DEPTH	MAG	
APR 09	17 41 56.4	7.0S 129.7E	143KM	5.3	BANDA SEA

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 17 53 15		73								

	H M S	EPICENTRE	DEPTH	MAG	
APR 09	23 57 24.9	17.7S 173.0W	70KM	4.9	TONGA IS

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAR	EP	ZNE 00 00 07		13								
	ES	NE 02 52										
	ELR	ZNE 03 53										

	H M S	EPICENTRE	DEPTH	MAG	
APR 10	04 59 53.9	7.4S 155.7E	37KM	5.5	SOLOMON IS

		H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAR	EP	Z 05 08 06		45								
SBA	EP	ZNE 05 11 09		71								

	H M S	EPICENTRE	DEPTH	MAG									
APR 10	10 02 23.4	10.8S 165.8E	60KM	4.4	SANTA CRUZ IS								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	Z 10 13 12		67									

	H M S	EPICENTRE	DEPTH	MAG									
APR 10	15 02 42.2	7.3S 155.8E	29KM	5.6	SOLOMON IS								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z 15 08 01		25									
RAO	EP	Z 15 09 18		33									
RAR	EP	ZNE 15 10 59		45									
	ELQ	N 21 15											
	ELR	ZNE 24 30											
SBA	IP	ZNE 15 13 58.0D		71									
	I=PP	Z 14 07.5U											

	H M S	EPICENTRE	DEPTH	MAG									
APR 10	16 47 49.7	63.6S 167.3W	33KM	5.4	S PACIFIC CORDILLERA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 16 51 34		16	-0.64								5.5
	ES	ZNE 54 55											
RAR	EP	Z 16 56 32.5		43									
	ES	ZNE 17 02 19											
	ESS	ZNE 05 44											
	ELQ	ZNE 07 12											
	ELR	ZNE 09 45											
	ET	ZNE 40 50											
APR 10	RAR EP	ZNE 20 32 52.5											
	ES	ZNE 35 23											
	ELR	ZNE 37 00											
	ET	ZNE 48 22											
	ELR	ZNE 37 00											
	ET	ZNE 48 22											
	ELR	ZNE 37 00											

	H M S	EPICENTRE	DEPTH	MAG									
APR 10	21 03 32.2	24.1S 176.3W	205KM	4.7	S OF FIJI								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	EP	Z 21 04 32		5									
	ES	Z 05 32											
RAR	EP	ZNE 21 06 35		16									
	ES	ZNE 09 04.5											
	ET	ZNE 22 00											
SBA	EP	ZN 21 12 40		54									

	H M S	EPICENTRE	DEPTH	MAG									
APR 10	21 49 19.5	7.3S 155.9E	39KM	5.3	SOLOMON IS								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 22 00 34		71									

	H M S	EPICENTRE	DEPTH	MAG									
APR 11	05 09 12.1	3.3S 119.2E	21KM	5.2	CELEBES								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 05 21 13		79									
APR 11	AFI EP	ZNE 05 28 48											
	S	ZNE 29 28											

	H M S	EPICENTRE	DEPTH	MAG									
APR 11	10 40 21.3	23.2S 68.8W	93KM	5.0	N CHILE								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 10 51 50		74									

	H M S	EPICENTRE	DEPTH	MAG									
APR 11	19 03 40.0	17.6S 179.1W	630KM	4.3	FIJI								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 19 05 27		8									
	ES	ZNE 06 55											

	H M S	EPICENTRE	DEPTH	MAG									
APR 12	04 31 45.3	19.2S 168.9E	200KM	4.7	NEW HEBRIDES								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 04 35 51		19									
	E(S)	ZNE 39 30											
SBA	EP	ZNE 04 41 24		59									

	H M S	EPICENTRE	DEPTH	MAG									
APR 12	04 51 40.2	5.3N 96.5E	55KM	6.1	N SUMATRA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
CBZ	EP	Z 05 04 06		84									
SUV	EP	Z 05 04 07		84									
SBA	IP	ZNE 05 04 41.0U		91	-0.10								7.3
	ES	NE 15 18								2	12	6 12	6.4
	ESP	Z 16 47											
	ESS	ZE 21 10											
	ESSS	ZE 25 40											
	ESKKS	ZN 28 46											
	ELQ	NE 30 10											
	ELR	ZNE 34 18											
	EMAX	ZNE 44 20								18	18	10 18	31 18
AFI	EP	ZNE 05 04 55		93									
	EPP	ZNE 08 30											
	ES	ZNE 16 00								29	20		7.2
	E(SS)	NE 21 00											
	EL	ZN 32 00											
APR 12	AFI IP	Z 07 32 28	D										
	ES	ZNE 33 21											
APR 12	AFI EP	ZNE 08 33 37											
	ES	ZNE 35 11											

	H M S	EPICENTRE	DEPTH	MAG									
APR 12	13 46 05.0	7.5S 155.8E	49KM	5.1	SOLOMON IS								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EL	ZNE 13 59 48		32									
SBA	EP	Z 13 57 18		71									

	H M S	EPICENTRE	DEPTH	MAG									
APR 12	13 54 57.2	7.3S 155.6E	52KM	5.2	SOLOMON IS								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z 14 01 11		25									
AFI	IP	Z 14 01 25	U	33									
	E	Z 05 48											
	EL	ZNE 08 30											
	EL	Z 10 30											
RAR	EP	ZNE 14 03 05		45									
SBA	EP	ZNE 14 06 09		71									

	H M S	EPICENTRE	DEPTH	MAG									
APR 12	14 51 49.4	7.4S 155.7E	21KM	5.3	SOLOMON IS								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 14 58 21		33									
SBA	EP	ZNE 15 03 06		71									

	H M S	EPICENTRE	DEPTH	MAG									
APR 12	18 06 59.2	8.3S 127.0E	13KM	4.4	TIMOR								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 18 18 27		72									

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APR 12  AFI  EP      ZNE 18 19 58
             S       ZNE    20 36
            ET       ZNE    23 06

          H  M  S     EPICENTRE   DEPTH  MAG
APR 12  19 33 47.3    5.2N  96.7E  56KM  5.2  N SUMATRA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP       Z   19 46 47       91

          H  M  S     EPICENTRE   DEPTH  MAG
APR 12  21 22 09.3    35.5S  73.3W  12KM  5.3  OFF CENTRAL CHILE
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP       ZNE 21 32 27       61
           E(pKKp)ZNE    53 36

APR 13  AFI  EP      ZNE 00 13 09
             IS      ZNE    14 50

APR 13  AFI  EP      Z   03 10 20  D
             S       ZNE       54
            ET       ZNE    13 32

          H  M  S     EPICENTRE   DEPTH  MAG
APR 13  04 14 33.6    18.7S 168.8E 123KM  5.2  NEW HEBRIDES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP       Z   04 18 49       19
        SBA  EP       ZN  04 24 24       59

          H  M  S     EPICENTRE   DEPTH  MAG
APR 13  17 13 43.5    18.0S 178.6W 610KM  5.0  FIJI
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP       Z   17 13 01        3
        AFI  IP       Z   17 15 36  D     8
             S        ZNE    17 06

          H  M  S     EPICENTRE   DEPTH  MAG
APR 13  18 48 06.8    34.2S  72.1W  64KM  4.6  NEAR CENTRAL CHILE
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP       ZNE 18 58 10       63

APR 13  AFI  EP      ZNE 20 28 30
             S       ZNE    29 20
            ET       ZNE    32 50

APR 13  AFI  EP      ZNE 21 38 27
            EIS      ZNE       46

          H  M  S     EPICENTRE   DEPTH  MAG
APR 14  09 39 14.3    17.1S 167.7E  28KM  4.7  NEW HEBRIDES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP       Z   09 41 53       10
        AFI  EP       ZE  09 43 48       20
        SBA  EP       Z   09 49 26       61

          H  M  S     EPICENTRE   DEPTH  MAG
APR 14  14 41 17.6    7.4S 155.5E  77KM  5.1  SOLOMON IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP       Z   14 47 43       33

          H  M  S     EPICENTRE   DEPTH  MAG
APR 14  23 00 19.2    15.3S 173.3W  27KM  4.7  TONGA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP       ZNE 23 00 51.3U    2

APR 14  AFI  EP      Z   23 33 28
             ES      ZNE    34 32
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```
        SUV  EP       Z   23 33 54

          H  M  S     EPICENTRE   DEPTH  MAG
APR 15  00 41 05.7    33.1S 178.7W  35KM  4.5  S OF KERMADEC IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP       Z   00 42 15        4
             ES       Z       52

          H  M  S     EPICENTRE   DEPTH  MAG
APR 15  09 00 40.3    29.1S 179.7W 349KM  4.4  KERMADEC IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  IP       Z   09 01 50.5D     2
             ES       Z       02 23
        SUV  EP       Z   09 03 18       11
        AFI  IP       ZNE 09 04 21  U    17
        SBA  EP       Z   09 08 57       49

          H  M  S     EPICENTRE   DEPTH  MAG
APR 15  12 11 00.6    33.2S 178.6W  18KM       S OF KERMADEC IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP       Z   12 12 04        4
             ES       Z       41
        SBA  EP       Z   12 19 29       45

          H  M  S     EPICENTRE   DEPTH  MAG
APR 15  14 49 05.1    20.7S 177.9W 454KM  4.0  FIJI
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP       Z   14 50 31        4

          H  M  S     EPICENTRE   DEPTH  MAG
APR 15  15 56 07.4    16.7S 167.6E  10KM  4.7  NEW HEBRIDES
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP       Z   15 58 44       10

          H  M  S     EPICENTRE   DEPTH  MAG
APR 16  07 18 11.8    19.4S 175.9E  30KM  5.3  S OF FIJI
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP       Z   07 18 47        3
             ES       Z       19 19
        AFI  EP       ZNE 07 21 17       13
             ES       ZNE     23 41
            ET        ZNE     32 00
        SBA  EP       Z   07 28 08       59

APR 16  RAR  EP      ZNE 07 33 00
             ES      ZNE    35 32

          H  M  S     EPICENTRE   DEPTH  MAG
APR 16  18 17 52.2    15.8S 174.2W  33KM  4.3  TONGA
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP       ZNE 18 18 37        3

APR 16  RAR  EP       ZNE 22 26 34.5

          H  M  S     EPICENTRE   DEPTH  MAG
APR 17  11 18 19.3    12.5S 166.3E  45KM  4.9  SANTA CRUZ IS
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP       Z   11 21 35       13
        SBA  IP       ZNE 11 29 00  D    65 -1.28                        5.8
             ELR      Z       52 40

          H  M  S     EPICENTRE   DEPTH  MAG
APR 17  17 45 52.2    20.6S 178.2W 570KM  4.5  FIJI
                        H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  IP       Z   17 47 11.4U     4

NO SBA RECORDS 670417 TO 670427 INCLUSIVE
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	H M S	EPICENTRE	DEPTH	MAG	
APR 18	06 23 01.6	13.6S 166.6E	49KM	4.9	NEW HEBRIDES

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	Z 06 33 35		64								

	H M S	EPICENTRE	DEPTH	MAG	
APR 19	13 24 48.3	17.3S 174.5W	85KM	4.3	TONGA

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 13 25 52		4								
	ES	ZNE 26 35										

	H M S	EPICENTRE	DEPTH	MAG	
APR 19	17 14 24.1	20.6S 178.0W	449KM	4.9	FIJI

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	P	Z 17 15 49		4								
AFI	EP	ZNE 17 16 31		9								
	ES	ZNE 18 07										

	H M S	EPICENTRE	DEPTH	MAG	
APR 20	00 01 24.9	5.5S 129.7E	163KM	5.7	BANDA SEA

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 00 11 04		58								
SBA	IP	ZNE 00 12 49.4D		79								

	H M S	EPICENTRE	DEPTH	MAG	
APR 20	04 17 41.7	41.1S 19.4W	33KM	5.3	S ATLANTIC RIDGE!

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	IP	ZNE 04 27 55.6D		61								
	EPCP	Z 28 39										
	EPP	Z 30 30										
APR 20 AFI	EP	ZNE 05 24 13										
	ES	ZNE 25 42										

	H M S	EPICENTRE	DEPTH	MAG	
APR 21	08 14 25.0	5.4S 129.9E	33KM		BANDA SEA

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z 08 23 34		49								
AFI	EP	Z 08 24 45		58								
	ES	ZNE 33 00										
	ESS	NE 35 54										
	ESSS	ZE 39 00										
	E	N 40 00										
	EL	ZE 43 48										
SBA	EP	ZNE 08 26 05		75								
	EPCP	Z 13										
	EPP	Z 28 54										

	H M S	EPICENTRE	DEPTH	MAG	
APR 21	14 38 02.8	20.6S 177.5W	453KM	4.9	FIJI

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z 14 39 25		5								
	ES	Z 40 31										
AFI	EP	ZNE 14 40 06		9								
	ES	ZNE 41 40										
SBA	EP	ZNE 14 47 11		58								

	H M S	EPICENTRE	DEPTH	MAG	
APR 21	17 47 41.8	15.5S 180.0E	33KM	4.5	FIJI

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z 17 48 22		3								
	S	Z 49 01										
SBA	EP	ZNE 17 58 05		63								

	H M S	EPICENTRE	DEPTH	MAG	
APR 22	08 37 25.5	5.6S 126.8E	33KM	5.2	BANDA SEA

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 08 47 42		61								
	E	N 09 03 18										
	EL	ZE 10 24										
SBA	EP	ZNE 08 49 07		75								

	H M S	EPICENTRE	DEPTH	MAG	
APR 22	11 47 16.8	22.7S 172.8E	80KM	4.2	LOYALTY IS

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	Z 11 56 45		55								

	H M S	EPICENTRE	DEPTH	MAG	
APR 22	13 07 38.1	5.1N 96.4E	42KM	5.4	N SUMATRA

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	IP	ZNE 13 20 40.6		91	-1.33							6.1
	E	Z 21 16										

	H M S	EPICENTRE	DEPTH	MAG	
APR 22	17 27 49.0	8.3N 127.2E	67KM	5.1	PHILIPPINE IS

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 17 40 39		89								

	H M S	EPICENTRE	DEPTH	MAG	
APR 22	19 41 57.8	7.0S 129.5E	82KM	5.5	BANDA SEA

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZE 19 51 44		58								
SBA	IP	ZNE 19 53 23.1U		73								

	H M S	EPICENTRE	DEPTH	MAG	
APR 22	22 02 02.4	18.6S 177.8W	460KM	4.2	FIJI

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE 22 03 53		7								
	ES	ZNE 05 19										
SBA	EP	Z 22 11 25		60								
APR 23 AFI	EP	ZNE 11 50 30										
	S	ZNE 49										

	H M S	EPICENTRE	DEPTH	MAG	
APR 24	11 02 37.8	15.2S 167.9E	208KM		NEW HEBRIDES

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	Z 11 12 43		63								

	H M S	EPICENTRE	DEPTH	MAG	
APR 24	11 44 58.1	24.0S 69.6E	33KM	5.0	MID-INDIAN RISE

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE 11 56 04		68								
	EPP	Z 58 10										
	EPPP	Z 12 01 10										

	H M S	EPICENTRE	DEPTH	MAG	
APR 24	16 33 13.6	56.3S 26.9W	118KM	5.1	S SANDWICH IS

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	IP	ZNE 16 41 26		U 46	-1.09							5.8

	H M S	EPICENTRE	DEPTH	MAG	
APR 24	18 52 21.3	6.1S 148.5E	63KM	5.1	NEW BRITAIN

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z 18 59 54		40								
SBA	EP	ZNE 19 03 43		72								

	H M S	EPICENTRE	DEPTH	MAG								
APR 25	06 57 48.9	0.3S 121.9E	20KM	5.3	N CELEBES							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 07 10 05		81								
	H M S	EPICENTRE	DEPTH	MAG								
APR 25	10 36 14.3	32.9S 69.0W	39KM	5.7	ARGENTINA							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA IP	ZNE 10 46 51	U	65								
	EPKPPKP	ZNE 11 15 37										
	H M S	EPICENTRE	DEPTH	MAG								
APR 25	12 28 26.3	15.9S 167.6E	46KM	4.6	NEW HEBRIDES							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z 12 33 01		20								
	SBA EP	ZNE 12 39 45		62								
	ES	ZNE 47 42										
	H M S	EPICENTRE	DEPTH	MAG								
APR 25	15 24 25.9	29.1S 178.2W	210KM	4.5	KERMADEC IS							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO IP	Z 15 24 56.0U		0								
	ES	Z 25 14										
	SBA EP	ZNE 15 33 00		49	-0.75							5.8
	H M S	EPICENTRE	DEPTH	MAG								
APR 26	06 35 24.7	15.6S 173.8W	140KM	4.4	TONGA							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI IP	ZNE 06 36 04	DSW	3								
	S	ZNE 34										
	SBA EP	ZNE 06 45 01		63								
	H M S	EPICENTRE	DEPTH	MAG								
APR 26	13 11 42.3	1.3S 89.5E	33KM	5.1	S INDIAN OCEAN							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 13 24 23		86								
	H M S	EPICENTRE	DEPTH	MAG								
APR 26	21 46 41.2	16.5S 175.6E	116KM	4.8	FIJI							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV P	Z 21 47 16		3								
	SBA IP	ZNE 21 56 47.5U		62	-1.07							6.0
APR 26	SUV EP	Z 22 34 34										
	H M S	EPICENTRE	DEPTH	MAG								
APR 27	08 09 47.9	1.8S 138.7E	33KM	5.3	NEW GUINEA							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI ES	NE 08 25 24		50								
	E(SSS)	N 30 48										
	EL	ZE 32 36										
	SBA EP	ZNE 08 21 42		77								
	E(SKKS)	N 48 10										
	ELQ	ZN 51 45										
	H M S	EPICENTRE	DEPTH	MAG								
APR 28	07 18 57.1	11.3S 165.8E	37KM	4.7	SANTA CRUZ IS							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z 07 23 54		22								
	ES	ZN 27 45										
	EL	ZE 29 24										
	SBA EP	ZNE 07 29 46		67								

	H M S	EPICENTRE	DEPTH	MAG								
APR 28	07 31 32.2	37.1S 52.2E	33KM		S INDIAN OCEAN							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 07 41 30		59								
	H M S	EPICENTRE	DEPTH	MAG								
APR 28	07 44 37.3	11.5S 165.8E	30KM	4.7	SANTA CRUZ IS							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV EP	Z 07 48 13		14								
	AFI EP	Z 07 49 47		22								
	ES	ZNE 54 02										
	EL	ZE 55 00										
	SBA EP	ZNE 07 55 26		66								
APR 28	AFI E(S)	ZNE 10 15 42										
	H M S	EPICENTRE	DEPTH	MAG								
APR 28	16 14 11.0	5.3N 96.7E	73KM	5.1	N SUMATRA							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 16 27 10		91								
	H M S	EPICENTRE	DEPTH	MAG								
APR 28	17 51 08.3	15.0S 167.4E	125KM	4.5	NEW HEBRIDES							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	Z 18 01 23		63								
	H M S	EPICENTRE	DEPTH	MAG								
APR 29	03 55 20.8	51.4N 178.3W	50KM	6.0	ALEUTIAN IS							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI ES	ZN 04 14 46		65								
	E(SSS)	E 22 30										
	EL	ZN 24 36										
	RAR ELR	ZN 04 29 00		74								
	SBA IPKP	ZNE 04 14 24	D	129								
	EPKS	ZNE 17 42										
	EPS	ZN 26 56										
	ELR	ZN 59 48										
	H M S	EPICENTRE	DEPTH	MAG								
APR 29	07 21 48.1	38.2S 48.6E	33KM	4.6	ATLANTIC-INDIAN RIDGE							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 07 31 42		58								
	H M S	EPICENTRE	DEPTH	MAG								
APR 29	11 05 20.9	17.5S 168.7E	88KM		NEW HEBRIDES							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 11 15 23		60	-1.58							5.6
	H M S	EPICENTRE	DEPTH	MAG								
APR 29	12 31 09.4	15.6S 173.8W	59KM	4.6	TONGA							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI IP	ZNE 12 31 50	U	3								
	S	ZNE 32 12										
	RAR EP	ZNE 12 34 31		14								
	ES	ZNE 37 00.5										
	ET	ZNE 46 30										
	SBA EP	ZNE 12 41 34		63								
APR 30	AFI E(P)	ZNE 05 29 49										
	H M S	EPICENTRE	DEPTH	MAG								
APR 30	16 59 00.6	1.8S 138.7E	33KM	5.5	NEW GUINEA							
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI ES	ZNE 17 15 14		50								
	E	N 18 00										
	ESS	Z 19 06										

		EL	ZNE	23 00										
	SBA	IP	ZNE	17 10 55,5U		77	-1,33							5,8
		ELR	ZNE	41 10										
	H M S		EPICENTRE		DEPTH	MAG								
APR 30	20 20 35.1		21,5S 170,7E		132KM		LOYALTY IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZN 20 30 06		56									
	H M S		EPICENTRE		DEPTH	MAG								
APR 30	23 06 16.1		6.2S 154.2E		72KM	4.7	SOLOMON IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE 23 17 32		72									
	H M S		EPICENTRE		DEPTH	MAG								
MAY 01	04 00 30.3		1.8S 138.8E		33KM	5.2	WEST NEW GUINEA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE 04 12 25		77									
MAY 01	SBA	EP	ZNE 06 27 06											
	H M S		EPICENTRE		DEPTH	MAG								
MAY 01	07 09 00.3		39.7N 21.3E		15KM	5.6	GREECE							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EPKP	ZNE 07 28 19		139									
		EPP	ZNE 31 19.5											
		ELR	ZN 08 17 50											
	AFI	EPKP	ZNE 07 28 56		152									
		E	NE 53 36											
		E	Z 58 24											
		E	Z 08 02 18											
		E	NE 10 30											
		EL	ZE 14 00											
		EL	ZN 18 18											
MAY 01	AFI	IP	ZNE 22 46 44	D										
		ES	NE 47 51											
MAY 02	SBA	EP	ZNE 04 11 32											
	H M S		EPICENTRE		DEPTH	MAG								
MAY 02	17 10 04.7		5.6S 147.2E		148KM	5.4	E NEW GUINEA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE 17 17 28		41									
	RAR	EP	Z 17 19 11		54									
	SBA	EP	ZNE 17 21 20		73									
MAY 02	SBA	EP	ZNE 18 11 32											
MAY 02	SBA	EP	ZNE 19 55 03											
MAY 02	AFI	EP	ZNE 23 33 29											
		S	ZNE 50											
MAY 03	AFI	EP	Z 03 32 03											
		S	ZNE 40											
		ET	ZNE 35 35											
MAY 03	AFI	EP	ZNE 07 45 29											
		ES	ZNE 46 26											
MAY 04	AFI	EP	ZNE 07 55 21											
		S	ZNE 56 00											
		T	ZNE 58 30											
	RAR	E(S)	NE 08 01 44										9	10

	H M S		EPICENTRE		DEPTH	MAG								
MAY 04	08 17 32.1		55.7S 27.9W		33KM	5.8	SOUTH SANDWICH IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	IP	ZNE 08 25 59		U	46	-0.63							6.3
		ES	NE 32 48											
		ESS	E 36 40											
		ELR	ZN 39 40											
	H M S		EPICENTRE		DEPTH	MAG								
MAY 04	10 18 58.0		19.7S 176.2W		33KM	4.9	FIJI							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SUV	EP	Z 10 20 16		5									
	AFI	EP	ZNE 10 20 27		7									
		ES	ZNE 21 34											
	RAR	EP	Z 10 22 30		15									
		ES	ZNE 25 41											
	SBA	EP	ZNE 10 28 57		59									
		ES	N 37 12											
		ELR	ZN 46 55											
	H M S		EPICENTRE		DEPTH	MAG								
MAY 04	16 22 00.9		6.0S 146.7E		49KM	5.2	E NEW GUINEA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	Z 16 29 36		42									
	SBA	EP	ZNE 16 33 09		73									
MAY 04	AFI	IP	Z 22 08 58	U										
		ES	ZNE 09 30											
MAY 04	SBA	EP	ZNE 23 51 40											
MAY 05	SBA	EP	ZNE 09 56 06											
	H M S		EPICENTRE		DEPTH	MAG								
MAY 05	12 32 15.3		49.5S 125.7E		33KM	4.9	S OF AUSTRALIA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE 12 38 42		32									
		ELR	ZNE 47 32											
	H M S		EPICENTRE		DEPTH	MAG								
MAY 05	15 00 07.7		10.5S 161.3E		41KM	5.4	SOLOMON IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	Z 15 05 46		27									
		ES	ZNE 10 14											
		E	ZNE 11 26											
		EL	ZE 12 30											
	RAR	EL	ZNE 15 16		39									
	SBA	EP	ZNE 15 11 00.5		67									
		ES	NE 20 00											
		ELR	ZN 31 30											
	H M S		EPICENTRE		DEPTH	MAG								
MAY 05	17 03 30.3		14.0S 167.0E		58KM	4.9	NEW HEBRIDES							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE 17 14 00		64									
MAY 05	SBA	EP	ZNE 17 25 36.5											
	H M S		EPICENTRE		DEPTH	MAG								
MAY 05	17 29 54.4		14.1S 166.8E		48KM	4.7	NEW HEBRIDES							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE 17 40 23		64									

			H M S	EPICENTRE	DEPTH	MAG	
MAY 05			17 38 05,3	8,0S 107,2E	33KM	5,3	HONSHU JAPAN
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	SBA	EP		ZNE 17 49 51.5		76	
		ELR		Z 14 30			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 06			08 31 15,8	55.6S 26,3W	33KM	5,1	S SANDWICH IS
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	SBA	EP		ZNE 08 39 43		47	
MAY 06	AFI	E		N 09 20 30			
		EL		Z 23 24			
MAY 06	AFI	E(P)		ZNE 10 16 29			
MAY 06	SBA	EP		ZNE 17 40 17			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 06			18 29 35,5	29.4S 179,3W	285KM	4,0	KERMADEC IS
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	RAO	IP		Z 18 30 25.3U		1	
MAY 06	RAO	EP		Z 23 47 23			
MAY 07	AFI	IP		ZNE 02 33 43 U			
		S		ZNE 34 02			
MAY 07	SBA	EP		ZNE 03 31 33			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 07			10 16 56,2	4.1S 152,8E	47KM	5,0	NEW BRITAIN
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	SBA	EP		ZNE 10 28 32		74 -0,68	6,3
MAY 07	AFI	EP		ZNE 13 41 23			
		S		ZNE 42			
MAY 08	SBA	EP		ZNE 01 57 06.5			
MAY 08	SBA	EP		ZNE 04 40 42			
MAY 08	SBA	EP		ZNE 08 18 52			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 08			18 44 56,8	33,2S 178,4W	50KM	5,3	S OF KERMADEC IS
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	RAO	EP		Z 18 45 48		4	
		ES		Z 46 31			
	AFI	EP		ZNE 18 49 25		20	
		ES		NE 52 46			
	RAR	EP		Z 18 49 32		20	
		ES		N 53 12			
	SBA	EP		ZNE 18 53 12,5		45	
			H M S	EPICENTRE	DEPTH	MAG	
MAY 09			12 36 36,8	56.6N 152,6W	33KM	5,0	KODIAK IS
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	AFI	ES		NE 12 56 33		72	
		E		E 13 06 12			
		EL		ZN 09 30			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 09			20 13 32.4	15.5S 173,4W	89KM	4,8	TONGA
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	AFI	IP		ZNE 20 14 09 U		2	

			H M S	EPICENTRE	DEPTH	MAG	
		S		ZNE 30			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 09			21 30 08,3	5,2N 127,5E	119KM	5,5	PHILIPPINE IS
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	AFI	EP		Z 21 40 23		63	
		EPCP		Z 41 06			
		ES		NE 49 00			
		EL		ZNE 59 36			
		EL		N 57 00			
	SBA	EP		ZNE 21 42 35,5U		86 -0,68	6,3
MAY 10	AFI	EP		Z 02 09 55			
		ES		ZNE 11 38			
MAY 10	AFI	IP		ZNE 09 09 12 D			
		S		ZNE 31			
		T		ZNE 11 09			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 10			12 48 28,9	18,1S 175,8W	199KM	4,0	TONGA
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	AFI	EP		Z 12 49 53		6	
		S		NE 50 53			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 10			15 23 30,9	49.1S 121,6E	33KM	3,8	S OF AUSTRALIA
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	SBA	EP		ZNE 15 30 08,5		33	
			H M S	EPICENTRE	DEPTH	MAG	
MAY 11			10 43 06,7	19,6S 175,7W	183KM	4,3	TONGA
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	SUV	EP		Z 10 44 39		6	
	AFI	EP		ZNE 10 44 45		7	
		ES		ZNE 45 55			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 11			14 50 58,8	39.4N 73,8E	21KM	5,6	INDIA
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	SBA	EPKP		ZNE 15 10 07,5		129	
		EPKS		ZN 13 35			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 11			15 05 16,8	20.3S 68,5W	67KM	6,1	CHILE-BOLIVIA BORDER
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	SBA	IP		ZNE 15 17 04,8D		77 -0,63	6,4
	RAR	EP		Z 15 17 41		84	
			H M S	EPICENTRE	DEPTH	MAG	
MAY 12			01 59 31,6	13,9S 170,0E	620KM	4,1	NEW HEBRIDES
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	AFI	EP		ZNE 02 03 04		18 -0,81	5,5
MAY 12	SBA	EP		ZNE 03 25 40			
			H M S	EPICENTRE	DEPTH	MAG	
MAY 12			06 13 59,7	17,8S 174,0W	115KM	4,8	TONGA
				H M S	DIR	DIS	LG.A/T AZ TZ AN TN AE TE MAG
	AFI	EP		ZNE 06 15 02		4	
		S		ZNE 48			
	SUV	EP		Z 06 15 47		7	
	RAO	EP		Z 06 16 43		12	
		ES		Z 18 50			
	RAR	EP		Z 06 17 13		14	
MAY 12	SUV	EP		Z 11 44 28			

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MAY 12  SBA  EP      ZNE 13 38 43

MAY 12  SBA  EP      ZNE 17 26 09

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 12  19 04 00,8   62,7S 167,7E  33KM  5,4  BALLENY IS
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 19 07 32,5U    15 -0,40                      5,7
             EPP     Z      08 41,5
             ES      ZNE    10 40
             EL      ZNE    11 14

MAY 12  SBA  EP      ZNE 23 29 04,5

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 13  02 59 18,5   11,7S 166,3E  70KM  4,7  SANTA CRUZ IS
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      Z   03 04 04       21
        SBA  EP      ZNE 03 10 00       66

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 14  08 38 33,1   20,6S  68,9W 109KM  5,2  CHILE-BOLIVIA BORDER
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 08 50 15       77

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 14  12 24 08,9   10,5S 161,4E  37KM  5,4  SOLOMON IS
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 12 35 02,5U    67

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 14  14 31 22,1   28,0S 176,6W  19KM  4,4  KERMADEC IS
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP      Z   14 31 55        2
             S       Z      32 20
        SBA  EP      ZNE 14 40 29       51

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 14  15 54 24,3   17,2S 178,7W  525KM      FIJI
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZNE 15 56 17        7
             ES      NE     57 47

MAY 14  SBA  EP      ZNE 18 43 23

MAY 14  AFI  EP      Z   19 27 28
             S       ZNE    49
             T       ZNE    29 48

MAY 15  SBA  EP      ZNE 00 37 28       -0,82
             ES      ZNE    40 42

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 15  02 28 16,8   20,1S 177,6W  564KM  4,9  FIJI
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z   02 29 40        4
        AFI  EP      ZNE 02 30 17        8
             ES      ZNE    31 52
        RAO  ES      Z   02 32 04        9

MAY 15  SBA  EP      ZNE 07 10 05

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 16  06 18 24,4   5,7S 146,4E   53KM  5,4  E NEW GUINEA
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZN  06 26 13       42
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        SBA  EP      ZNE 06 29 48       73

MAY 16  SBA  EP      ZNE 06 40 37,5

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 16  16 14 22,9   15,2S 173,5W   33KM  5,2  TONGA
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP      ZNE 16 14 55  U    2
             S       ZNE    15 14
        RAR  EP      ZNE 16 17 43       14
             ES      ZNE    20 09
             ET      ZNE    30 24
        SBA  IP      Z   16 24 52,5U    63

MAY 16  AFI  IP      ZNE 19 28 12  D
             S       ZNE        33

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 16  23 08 16,3   21,0S 178,8W  551KM  3,9  FIJI
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZNE 23 10 32       10
        SBA  EP      ZNE 23 17 12       57

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 16  23 11 07,6   25,9S 177,6W  154KM       S OF FIJI
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP      Z   23 12 03        3
             ES      Z      50
        SUV  EP      Z   23 13 05        9
        AFI  EP      ZNE 23 13 51       13
             ES      ZNE    15 57
             ET      ZNE    25 20
        RAR  EP      ZNE 23 14 53       17
             ES      ZNE    17 44
             ET      ZNE    30 21
        SBA  EP      ZNE 23 20 08,5     53

MAY 17  SBA  EP      ZNE 05 25 10

MAY 17  SUV  EP      Z   06 34 03
             ES      Z      57

MAY 17  AFI  E(S)    NE  06 51 41

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 17  08 22 20,3   15,1S 168,1E   36KM  5,1  NEW HEBRIDES
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 08 32 45,5     63

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 17  16 13 37,6   16,6S 175,5E   80KM  4,8  FIJI
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z   16 14 17        3
        AFI  E       N   16 20 30       13
             EL      ZE     21 24

MAY 18  RAR  EP      ZNE 11 45 07
             E(S)    ZNE    48 03
             ET      ZNE 12 01 56

MAY 18  SBA  EP      ZNE 19 15 17,5

        H  M  S      EPICENTRE    DEPTH  MAG
MAY 19  05 09 10,9   34,9S 179,0W   35KM  5,2  S OF KERMADEC IS
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP      Z   05 10 45        6
             ES      Z      11 29
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	AFI	EP	Z	05	14	03		22	-1.15								5.1
		ES	ZNE		18	00											
		ET	ZNE		36	09											
	SBA	EP	ZNE	05	17	13.5		43									
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 19	12	02	19.9	30.3S	177.9W		25KM	4.7	KERMADEC IS								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z		12	02	40		1								
	AFI	EP	Z		12	06	13		17								
		ES	NE			09	30										
		ET	ZNE			23	43										
	SBA	EP	ZNE	12	11	01		48									
MAY 19	AFI	EP	ZNE	12	52	16											
		S	ZNE		53	05											
		L	NE		54	00											
		T	ZNE		57	03											
	RAR	EP	ZNE	12	53	55											
		ES	ZNE		56	32											
MAY 19	SBA	EP	ZNE	21	31	31.5											
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 20	05	39	14.4	59.4S	148.2E		33KM		W OF MACQUARIE IS								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	05	43	40			20								
		ES	N		47	25											
		ELR	ZNE		48	50											
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 20	13	02	09.3	59.2S	65.7W		33KM	5.5	DRAKE PASSAGE								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	13	09	41			40								
		ES	NE		15	54											
		ESS	NE		18	35											
		ELR	ZNE		21	00											
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 21	18	45	11.7	1.0S	101.5E		51KM	6.3	S SUMATRA								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	P	Z	18	56	41			76								
	SUV	EP	Z	18	56	47			77								
	SBA	IP	ZNE	18	57	25.5	U	84	-0.01								7.2
		EPCP	ZNE			58	04										
		ES	ZNE	19	07	28									115	2	8.6
		ESS	ZNE			13	10										
		ELQ	ZNE			19	32										
		ELR	ZNE			24	40										
	AFI	EP	Z	18	57	37			87								
		E	ZE			58	25										
		EPP	ZE	19	01	00											
		ES	ZE			07	48										
		ES	N			08	04										
		E	ZN			20	12										
		E(L)	ZE			22	18										
		EL	ZE			27	12										
	RAR	EP	Z	18	58	31			98								
		EPP	Z	19	02	37											
		ESKS	E			08	55										
		ES	N			09	48										
		E(PPS)	E			12	24										
		ESS	E			17	36										
		E(LQ)	N			25	46										

	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 22	03	19	22.5	15.0S	167.2E		102KM	4.7	NEW HEBRIDES								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	03	29	40			63								
MAY 22	RAO	P	Z		07	18	26										
		E	Z			19	42										
		E	Z			20	44										
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 22	12	08	48.1	20.7S	178.9W		607KM	4.3	FIJI								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z		12	11	03		10								
		ES	ZNE			12	41										
MAY 22	SBA	EP	ZNE	12	20	26.5											
MAY 22	RAO	EP	Z		11	24	06										
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 22	20	09	59.6	59.5S	29.6W		33KM	4.9	S SANDWICH IS								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	Z		20	17	49		43								
		ESS	E			27	30										
		ELR	ZNE			34	58										
MAY 22	SBA	EP	ZNE	22	56	23.5											
MAY 22	AFI	EP	Z		23	44	42										
		S	ZNE			45	00										
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 23	01	52	39.1	44.6N	150.5E		22KM	4.9	KURILE IS								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	E(SSS)	E		02	18	20		68								
		EL	ZN			23	30										
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 23	15	25	26.3	28.0S	176.7W		91KM	4.5	KERMADEC IS								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z		15	25	50		2								
		ES	Z			26	14										
	AFI	EP	Z		15	28	41		15								
		ES	NE			31	07										
		ET	ZNE			43	10										
	SBA	EP	ZNE	15	34	19			51								
	H	M	S	EPICENTRE			DEPTH	MAG									
MAY 23	19	17	47.5	56.2S	27.3W		130KM	5.9	S SANDWICH IS								
					H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	IP	ZNE	19	25	59		U	46	-0.04							6.8
		ES	NE			32	36										
		ELQ	ZNE			36	30										
		ELR	ZN			39	00										
	AFI	E(S)	Z		19	45	00		104								
		EL	Z		20	01	30										
		EL	Z			06	00										
MAY 24	AFI	E	Z	04	30	16											
		EL	NE			34	20										
		EL	Z			36	00										
	RAR	E(S)	N	04	32	44											
MAY 24	AFI	E	Z	05	14	00											
		E	NE			18	24										
		EL	Z			20	00										

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        RAR  E        Z   05 15 12
             E(S)     NE     16 44

MAY 24  AFI  IP       ZNE 06 50 12.4D
             S        ZNE       22

MAY 24  SUV  IP       Z   09 36 49
        AFI  EP       Z   09 37 57
             (P)      ZNE    38 14
             S        ZNE       37
             T        ZNE    40 42

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 24  11 55 38,9    16.0S 172,6W  33KM  4,2  SAMOA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        AFI  EP       Z   11 56 12        2
             S        ZNE       39
             T        ZNE    58 39

MAY 25  AFI  EP       Z   16 30 07
             E(S)     NE     31 22

MAY 25  AFI  EP       Z   16 44 31
             S        ZNE    45 11

MAY 25  AFI  EP       Z   17 15 09
             S        ZNE       28

MAY 26  SBA  EP       ZNE 00 30 58.5

MAY 26  AFI  EP       Z   10 57 25

MAY 26  AFI  IP       ZNE 16 19 38.7U
             S        ZNE       58

MAY 27  AFI  E(S)     ZNE 11 59 00

MAY 27  SBA  EP       ZNE 13 44 28

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 27  17 22 58.7    51.9N 176.1E  34KM  5,8  ALEUTIAN IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        AFI  EP       Z   17 33 44       66
             ES       ZN     42 36
             ES       E      43 00
             E(SSS)   ZNE    50 12
             EL       ZN     53 00
        SBA  EPKP     ZN  17 42 05        130
             EPKS     ZNE    45 21
             ESSP     N   18 02 00
             ELR      ZN     23 20

MAY 27  SBA  EP       ZNE 17 56 06

MAY 27  SBA  EP       ZNE 21 29 49

MAY 28  SBA  EP       ZNE 04 27 20

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 28  06 29 45.6    23.8S 179.7W 441KM  4.4  S OF FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SUV  EP       Z   06 31 29        6
        AFI  EP       ZNE 06 32 31       12
             ES       ZNE    34 38
        SBA  EP       ZNE 06 38 33       54

MAY 28  AFI  EP       Z   12 10 59
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             ES       ZNE    11 33

MAY 28  AFI  EP       ZE  13 37 35

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 28  15 09 41.9    52.7S  10.4E  33KM  5.3  SW OF AFRICA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SBA  IP       ZNE 15 18 26.2D    49
             ES       N      25 34

MAY 28  SBA  EP       ZNE 18 01 52
             ES       ZNE    06 46

MAY 29  SBA  EP       ZNE 03 38 52

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 29  04 45 43.9    11.9N 143.3E  33KM  5.6  S OF MARIANA IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SBA  EP       ZNE 04 58 47       91

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 29  04 55 56.2    14.9S 167.4E 122KM  4.6  NEW HEBRIDES
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SBA  EP       ZNE 05 06 12.0D    63

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 29  11 09 53.9    19.2S 176.3W 236KM  5.1  FIJI
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SUV  EP       Z   11 11 16        5
        AFI  EP       ZNE 11 11 32        7
             ES       ZNE    12 45
        RAO  EP       Z   11 12 07       10
             ES       Z      13 49
        RAR  EP       Z   11 13 19       16
             ES       N      16 06
        SBA  EP       Z   11 19 27.5     59

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 29  18 57 56.5    56.0S  27.4W 130KM  4.7  S SANDWICH IS
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SBA  EP       ZN  19 06 09       46

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 29  19 19 54.5    20.2S 173.9W  33KM  4.2  TONGA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        AFI  EP       ZNE 19 21 29        7
             S        ZNE    22 38
             ET       ZNE    28 08

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 29  21 55 14.0    15.8S 172.5W  33KM  4.6  SAMOA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        AFI  EP       ZNE 21 55 44        2
             S        ZNE    56 11
             T        ZNE    58 07

         H  M  S       EPICENTRE    DEPTH  MAG
MAY 30  07 06 20.0    19.4S 175.8W 185KM  4.2  TONGA
                          H  M  S   DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SUV  EP       Z   07 07 51        6
        AFI  EP       ZNE 07 07 56        7
             S        ZNE    09 03

MAY 30  AFI  E(P)     Z   18 20 28
             E(T)     ZNE    27 10
             ES       NE     21 42

MAY 31  AFI  EP       Z   04 27 38
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		S	ZNE	58														
MAY 31	SBA	EP	ZNE	09 25 28														
	H M S		EPICENTRE		DEPTH	MAG												
MAY 31	10 46 54,6		12.0S 166,2E		50KM	4,7	SANTA CRUZ IS											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	Z	10 51 58		22												
		ES	ZE	57 42														
	SBA	EP	ZNE	10 57 36.5		66												
MAY 31	AFI	EP	Z	16 26 13														
		ES	NE	55														
		ET	ZNE	29 30														
	H M S		EPICENTRE		DEPTH	MAG												
MAY 31	17 49 07,5		15.8S 179,7W		465KM	4,1	FIJI											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	ZNE	17 50 00		8												
		ES	ZNE	51 31														
MAY 31	AFI	EP	ZNE	23 57 50														
		ES	ZNE	58 24														
		ET	ZNE	24 00 26														
	H M S		EPICENTRE		DEPTH	MAG												
JUN 01	03 36 19,0		53,7N 165,6W		60KM	5,7	ALEUTIAN IS											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	Z	03 47 09		68	-1.15							5,9				
		ES	ZN	55 42														
		E(L)	ZNE	04 04 08														
		EL	ZN	06 28														
	SBA	EPKP	ZNE	03 55 27		132												
		EPKS	ZNE	58 47														
	H M S		EPICENTRE		DEPTH	MAG												
JUN 01	05 57 12,5		2,9N 99,0E		171KM	4,6	N SUMATRA											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SBA	EP	Z	06 09 46		88												
	H M S		EPICENTRE		DEPTH	MAG												
JUN 01	10 39 22,8		36,9N 29,2E		36KM	5,0	TURKEY											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EPKP	Z	10 59 14		150												
	H M S		EPICENTRE		DEPTH	MAG												
JUN 01	20 47 45,6		6.8S 155,0E		31KM	5,6	SOLOMON IS											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	ZE	20 54 23		33												
		ES	ZNE	59 48														
		ELQ	NE	21 02 28														
		ELR	Z	03 40														
	SBA	EP	ZNE	20 59 02		71												
		ES	ZNE	21 08 23														
		ELR	ZN	23 08														
JUN 02	AFI	IP	Z	10 02 01.5U														
		S	ZNE	23														
JUN 02	AFI	IP	Z	11 35 49 D														
		S	ZNE	36 08														
JUN 02	AFI	EP	ZNE	12 05 06														
		S	ZNE	34														

	H M S		EPICENTRE		DEPTH	MAG												
JUN 03	06 11 07.8		10.8S 79.0W		33KM	4.6	PERU											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	ES	Z	06 34 40		90												
		EL	ZE	52 28														
	H M S		EPICENTRE		DEPTH	MAG												
JUN 03	09 08 56.4		58.4N 151.2W		32KM	5.5	KODIAK IS											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	EP	Z	09 20 30		74												
		ES	N	30 28														
		E	E	37 40														
		EL	ZN	42 00														
JUN 03	AFI	IP	Z	11 47 18	U													
		S	ZNE	39														
	H M S		EPICENTRE		DEPTH	MAG												
JUN 03	13 08 06,8		8.5S 74,4W		152KM	5,2	PERU											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SBA	EP	ZNE	13 20 39		88												
JUN 04	AFI	IP	ZNE	02 32 48.3U														
		IS	ZNE	33 09														
	H M S		EPICENTRE		DEPTH	MAG												
JUN 04	18 28 39.6		15.5S 75.7W		38KM	4.7	PERU											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	AFI	ES	E	19 09 44		92												
		EL	ZE	12 28														
	H M S		EPICENTRE		DEPTH	MAG												
JUN 05	01 21 20.2		21.3S 174.5W		33KM	5.2	TONGA											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SUV	EP	Z	01 23 14		7												
	AFI	EP	Z	01 23 05		8												
		I	ZNE	11														
		S	ZNE	24 26														
		IL	ZN	25 00														
		ET	ZNE	29 48														
	RAO	EP	Z	01 23 22		8												
		ES	Z	24 58														
	RAR	P	ZNE	01 24 22		14				14 17				28 18				
		ES	ZNE	26 43														
		ES	ZNE	48														
		ET	ZNE	38 19														
	SBA	EP	Z	01 31 09		57	-1.14											6.0
		ES	ZNE	39 11								1 10		1 10				5.7
		ESCS	NE	41 05														
		E(SSS)	ZN	45 35														
		ELQ	NE	46 10														
		E	Z	47 20														
		ELR	Z	48 10						1 22								
		EMAX	ZNE	51 50						2 19		1 19		1 19				
JUN 05	AFI	EP	ZNE	05 26 01														
		S	ZNE	18														
JUN 05	AFI	IP	ZNE	06 06 18.9D														
		IS	ZNE	36														
	H M S		EPICENTRE		DEPTH	MAG												
JUN 05	14 35 18.9		5.3S 133.9E		6KM	4.4	ARQE IS											
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG				
	SBA	EP	ZNE	14 47 01		75												
JUN 05	AFI	EP	Z	17 51 06														

		ES	ZNE	52 16									
		ET	ZNE	58 13									
	RAR	E	ZNE	17 55 40									
		E	ZNE	56 00									
JUN 05	AFI	IP	ZNE	21 58 19.5U									
		IS	ZNE	51									

	H M S	EPICENTRE	DEPTH	MAG	
JUN 06	06 35 16.1	6.2S 152.0E	58KM	5.4	NEW BRITAIN

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	06 42 17		36	-1.15							5.7
SBA	EP	ZNE	06 46 36		72								

	H M S	EPICENTRE	DEPTH	MAG	
JUN 06	09 30 26.7	10.8S 165.3E	33KM	5.1	SANTA CRUZ IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	09 35 24		23								
	ES	ZNE	39 24										
	EL	ZE	41 16										
SBA	EP	ZNE	09 41 07		67								

	H M S	EPICENTRE	DEPTH	MAG	
JUN 06	09 41 10.8	20.7S 178.5W	537KM	3.7	FIJI

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	09 43 23		9								
	ES	ZNE	45 05										
SBA	EP	Z	09 50 12		58								

	H M S	EPICENTRE	DEPTH	MAG	
JUN 06	16 09 47.3	19.6S 170.0E	28KM	4.6	NEW HEBRIDES

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	Z	16 19 43		58								

	H M S	EPICENTRE	DEPTH	MAG	
JUN 07	03 11 56.8	20.4S 177.7W	456KM	4.0	FIJI

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	03 14 00		9								
	ES	ZNE	15 34										
JUN 07	AFI E(P)	Z	04 52 50										

	H M S	EPICENTRE	DEPTH	MAG	
JUN 07	09 57 59.1	20.7S 174.9W	33KM	4.3	TONGA

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	09 59 44		7								
	ES	ZNE	10 01 04										
	ET	ZNE	07 04										
RAR	EP	ZNE	10 01 01		14								
JUN 08	AFI EP	ZNE	04 59 02										
	S	ZNE	18										

	H M S	EPICENTRE	DEPTH	MAG	
JUN 08	07 01 54.6	6.1N 125.8E	158KM	5.4	PHILIPPINE IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE	07 14 24		87								

	H M S	EPICENTRE	DEPTH	MAG	
JUN 08	12 01 57.3	4.6N 127.1E	73KM	5.3	TALAUD IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE	12 14 19		85								
	IPCP	ZNE	28	D									
JUN 08	AFI IP	ZNE	13 11 39	U									
	S	ZNE	58										

	H M S	EPICENTRE	DEPTH	MAG	
JUN 08	13 22 13.7	21.4S 170.3E	90KM	5.3	LOYALTY IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE	13 26 26		19								
	ES	NE	29 48										
SBA	IP	ZN	13 31 48	D	57	-0.65							6.5
	I*PP	ZN	32 17	U									
	ES	ZNE	39 32						1	10			5.7
	ESS	ZNE	44 00										
	ELQ	E	46 12										
	ELR	ZN	49 23				2	22	2	22			
JUN 08	AFI EP	Z	18 31 29										
	S	NE	32 00										
	T	ZNE	34 43										
JUN 08	AFI IP	ZNE	20 25 26.5										
	S	ZNE	56										
JUN 08	AFI EP	Z	20 59 49			-0.96							
	S	NE	21 00 32										
	E(T)	ZNE	03 07										
JUN 08	AFI IP	ZNE	23 03 24	U									
	IS	ZNE	56										
JUN 09	SBA E?	ZNE	00 08 11										
	I(P)	ZNE	12.3US			-1.35							
	I	ZNE	16.3DNE										
JUN 09	SBA E(S)	ZN	09 31 08										
	ELR	ZNE	31										

NO SHORT PERIOD RECORDS FOR SBA JUNE 9TH

	H M S	EPICENTRE	DEPTH	MAG	
JUN 09	10 16 02.3	18.5S 177.7W	546KM	4.1	FIJI

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE	10 17 54		7								
	S	ZNE	19 21										
SBA	EP	Z	10 25 14		60		1	6					5.3

	H M S	EPICENTRE	DEPTH	MAG	
JUN 09	10 55 08.2	17.8S 178.6W	576KM	3.9	FIJI

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	10 57 04		8								
	S	ZNE	58 32										

	H M S	EPICENTRE	DEPTH	MAG	
JUN 09	12 41 22.0	52.4S 143.5E	33KM	5.1	W OF MACQUARIE IS

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	ES	ZNE	12 51 52		27								
	ELR	ZNE	54 34				1	19	1	19	2	20	
	ESCS	ZNE	57 49										
JUN 09	AFI EP	Z	16 28 34										
	S	ZNE	29 26										

	H M S	EPICENTRE	DEPTH	MAG	
JUN 09	17 05 58.9	20.6S 178.6W	546KM	4.5	FIJI

			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	17 08 11		9	-0.92							
	S	NE	09 54										
JUN 09	AFI EP	Z	20 11 32										
	S	ZNE	50										

			T	ZNE	13 22										
	H M S		EPICENTRE		DEPTH	MAG									
JUN 10	05 26 44,4		41.3S 73.6W		37KM	5,7	S CHILE								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	IP	ZNE	05 36 18	U	56	-1.41								
		ES	ZNE	44 05										5,7	
		E	Z	50 25											
		ELQ	NE	53 55											
		ELR	ZNE	55 55											
	H M S		EPICENTRE		DEPTH	MAG									
JUN 10	13 58 53,3		19.3S 178.2W		596KM	5,1	FIJI								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SUV	P	Z	14 00 19		3									
	AFI	IP	ZNE	14 00 54,6	U	8	-0.00								
		ES	ZNE	02 29											
	RAO	EP	Z	14 01 10		10									
		ES	Z	03 01											
	RAR	EP	Z	14 02 25		17									
	SBA	IP	ZNE	14 07 59	U	59									
JUN 10	SUV	P	Z	14 08 47											
	AFI	EP	Z	14 09 22											
		S	NE	10 57											
	RAO	EP	Z	14 09 37											
		ES	Z	11 28											
	SBA	IP	ZNE	14 16 27	U										
JUN 11	AFI	EP	Z	05 23 34											
		S	ZNE	24 06											
JUN 11	AFI	EP	Z	09 33 29											
		S	NE	34 23											
JUN 11	AFI	IP	Z	05 34 59											
		IS	NE	35 29											
	H M S		EPICENTRE		DEPTH	MAG									
JUN 12	00 03 32,4		21.0S 174,6W		33KM	5,0	TONGA								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE	00 05 16		8									
		S	ZNE	06 31											
		ET	ZNE	12 37											
	RAO	E(S)	Z	00 07 11		9									
	H M S		EPICENTRE		DEPTH	MAG									
JUN 12	00 48 59,2		21.1S 174.4W		13KM	5,1	TONGA								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE	00 50 45		8									
		S	ZNE	52 03											
	SUV	EP	Z	00 50 56		7									
	RAO	EP	Z	00 51 05		9									
		ES	Z	52 42											
	RAR	EP	Z	00 52 04		14									
		ES	N	54 36											
	SBA	EP	ZNE	00 58 51		58									
		EL	NE	01 14 55											
	H M S		EPICENTRE		DEPTH	MAG									
JUN 12	03 05 34,1		18.0S 167,7E		8KM	4,8	NEW HEBRIDES								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	03 15 43		60									

	H M S		EPICENTRE		DEPTH	MAG									
JUN 12	03 07 38,8		3.0S 100.0E		33KM	5,1	S SUMATRA								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	03 19 57		82									
		E(LQ)	E	41 30											
		ELR	ZNE	48 10											
		E(SKKS)	E	50 30											
	H M S		EPICENTRE		DEPTH	MAG									
JUN 12	05 21 10,6		44.9S 35.7E		36KM	5,6	PRINCE EDWARD IS								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	05 30 38		54	-0,63	1	4					6,4	
		EPP	Z	32 35											
		EPPP	ZNE	33 29											
		IS	ZNE	38 15	USE			2	11	7	11	6	11	6,4	
		ESS	ZE	41 46											
		ELQ	NE	43 34											
		ELR	ZNE	46 28				4	21	6	21	5	17		
JUN 12	AFI	IP	Z	07 41 59	D										
		S	ZNE	42 30											
JUN 12	AFI	EP	ZNE	10 36 01											
		S	ZNE	39											
		T	ZNE	39 25											
	H M S		EPICENTRE		DEPTH	MAG									
JUN 12	23 22 45,3		47.4N 154.3E		56KM	5,4	KURILE IS								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	ES	ZNE	23 42 52		68									
		ESS	E	50 24											
		EL	ZN	53 00											
	H M S		EPICENTRE		DEPTH	MAG									
JUN 13	15 39 29,7		5.6S 148.1E		213KM	5,4	NEW BRITAIN								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE	15 46 48		40									
	SBA	EP	ZNE	15 50 37		73	-0,93							5,9	
		ES	ZNE	59 52				1	4	3	4	3	4	6,6	
	H M S		EPICENTRE		DEPTH	MAG									
JUN 14	03 14 17,5		14.9S 73.4W		99KM	5,6	PERU								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	03 26 26		82									
		E=PP	ZNE	51											
	H M S		EPICENTRE		DEPTH	MAG									
JUN 14	05 06 16,3		15.2S 173.6W		11KM	5,9	TONGA								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	IP	ZNE	05 06 51	UNE	2									
		IS	ZNE	07 12											
	SUV	EP	Z	05 08 28		8									
	RAR	EP	ZNE	05 09 40		14									
		ES	ZNE	12 09											
		ET	ZNE	23 01											
	SBA	IP	ZN	05 16 50	U	63	-0,57	2	5					6,6	
		IPCP	ZN	17 07	D			1	6						
		ES	ZNE	25 41						1	16			5,4	
		ELR	ZNE	35 15				1	20	1	20	1	20		
	H M S		EPICENTRE		DEPTH	MAG									
JUN 14	06 15 54,1		3.7S 131.1E		33KM	4,5	W NEW GUINEA								
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	Z	06 27 43		76									

		H M S	EPICENTRE	DEPTH	MAG								
JUN 14		08 05 58.6	47.5N 154.4E	55KM	5.3	KURILE IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZN 08 26 00		68								
		ESSS	N 33 08										
		EL	ZN 36 24										
	SBA	EPKP	ZNE 08 24 54		125								

		H M S	EPICENTRE	DEPTH	MAG								
JUN 14		08 13 02.2	47.5N 154.5E	53KM	5.4	KURILE IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPKP	ZNE 08 31 58		125								
JUN 14	SBA	EP	ZNE 09 13 45										

		H M S	EPICENTRE	DEPTH	MAG								
JUN 14		12 29 30.6	15.3S 173.0W	33KM	4.3	TONGA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE 12 30 00.2U		2								
		S	ZNE 23										

		H M S	EPICENTRE	DEPTH	MAG								
JUN 14		15 02 12.1	18.6S 174.8W	68KM	4.9	TONGA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z 15 03 34		5								
		S	ZNE 04 28										

		H M S	EPICENTRE	DEPTH	MAG								
JUN 15		04 49 41.4	21.6S 174.7W	33KM	4.9	TONGA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z 04 51 34		8								
		ES	Z 52 58										
	AFI	EP	Z 04 51 39		8								
		S	ZNE 53 04										
		T	ZNE 05 00 15										
	RAR	EP	ZNE 04 52 51		14								
		ES	ZNE 55 22										
		ET	ZNE 05 07 45										
	SBA	EP	ZNE 04 59 26		57								

		H M S	EPICENTRE	DEPTH	MAG								
JUN 15		09 23 43.4	15.2S 173.2W	33KM	4.4	TONGA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE 09 24 11	D	2								
		S	ZNE 30										
	SBA	EP	ZNE 09 34 12		63								

		H M S	EPICENTRE	DEPTH	MAG								
JUN 15		17 33 56.5	43.9S 16.1W	33KM	5.0	S ATLANTIC RIDGE							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 17 43 52		59	-1.43							5.8
		EPCP	ZNE 44 42										
		ESCS	Z 54 11										

		H M S	EPICENTRE	DEPTH	MAG								
JUN 15		20 44 47.9	5.4S 153.0E	65KM	5.0	NEW IRELAND							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 20 56 11		73								

		H M S	EPICENTRE	DEPTH	MAG								
JUN 16		05 44 02.2	55.7S 146.8E	27KM	5.4	W OF MACQUARIE IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZE 05 49 13		23		1	4					5.8
		ES	ZNE 53 30				1	16	1	17	1	17	5.0
		ESS	ZNE 55 06										
		ELR	ZNE 56 15										

		H M S	EPICENTRE	DEPTH	MAG								
JUN 16		06 03 16.6	55.6S 147.3E	33KM	5.2	W OF MACQUARIE IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	Z 06 08 26		23								
		ES	ZNE 12 34										
		ELQ	NE 14 46										
		ELR	ZNE 15 42						3	10	2	10	

		H M S	EPICENTRE	DEPTH	MAG								
JUN 16		20 12 15.1	19.4S 175.2W	90KM	5.0	TONGA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE 20 13 48		6								
		S	ZNE 14 50										
		T	ZNE 19 09										
	SUV	EP	Z 20 13 53		6								
	RAR	EP	NE 20 15 42		15								
		ES	NE 18 07										
		ET	NE 29 38										

		H M S	EPICENTRE	DEPTH	MAG								
JUN 17		05 00 11.8	58.3S 26.6W	140KM	6.1	S SANDWICH IS							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	IP	ZNE 05 08 05.7D	S	44	0.14	16	11	10	12			6.7
		I=PP	ZNE 57 UN										
		IPCP	ZNE 09 44 UN						9	14	7	12	
		EPPP	ZNE 10 27										
		E	ZNE 52										
		I	ZNE 11 03.7D										
		ISCP	ZNE 13 24 D										
		ES	ZNE 14 28										
		E=SS	ZNE 15 36						10	14	9	12	6.2
		ESS	ZNE 17 41										
		ELR	ZNE 20 45										
	CBZ	EP	Z 05 11 02		69								
	RAR	EP	Z 05 13 03		92								
		E=PP	Z 14 03										
		ES	N 23 46										
		EPS	E 25 04										
		E	Z 26 04										
		E(SS)	E 30 44										
	AFI	EP	Z 05 13 54		103								
		EPP	ZN 18 08										
		EPPP	ZN 21 06										
		ESCS	NE 24 16										
		ES	ZNE 27 12										
		ES	ZNE 28 14										
		ESS	NE 32 00										
		E(SKS)	NE 40 36										
		EL	NE 43 00										
		EL	ZN 48 00										

		H M S	EPICENTRE	DEPTH	MAG								
JUN 17		07 42 48.3	14.9S 167.3E	105KM	4.4	NEW HEBRIDES							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 07 53 06		63	-1.47							5.6

		H M S	EPICENTRE	DEPTH	MAG								
JUN 17		18 41 59.8	17.9S 173.1W	33KM	4.3	TONGA							
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z 18 43 02		4								
		S	ZNE 51										
JUN 17	AFI	IP	Z 22 10 37.1U										
		S	ZNE 57										

	H M S	EPICENTRE	DEPTH	MAG									
JUN 18	04 51 07.9	20.1S 177.6W	313KM	3.6	FIJI								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	ZNE	04 53 06		8								
	S	ZNE	54 33										
JUN 18	AFI IP	Z	17 45 00.5										
	S	ZNE	20										
	H M S	EPICENTRE	DEPTH	MAG									
JUN 18	20 04 56.7	3.9S 151.6E	301KM	4.9	NEW IRELAND								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE	20 16 03		74								
	E=PP	Z	17 11										
JUN 19	SBA EP	ZNE	00 38 55										
	E6	ZNE	39 30										
	H M S	EPICENTRE	DEPTH	MAG									
JUN 19	15 07 49.9	28.0S 66.4W	163KM	4.4	ARGENTINA								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA IP	ZNE	15 18 46	D	70								
	H M S	EPICENTRE	DEPTH	MAG									
JUN 19	17 07 45.4	52.7N 166.9W	33KM	5.7	ALEUTIAN IS								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z	17 18 28		66								
	ES	ZNE	27 20										
	ESS	Z	31 32										
	ESSS	ZE	35 00										
	EL	ZN	37 24										
	RAR ES	N	17 28 52		74								
	SBA EPKP	ZNE	17 26 55		131								
	ISKP	ZNE	30 19	U									
	ESKKS	N	36 08										
	E(PS)	ZN	39 22										
	ESCSPKP?	ZN	41 28										
	EGS	ZNE	46 34										
	ELR	ZNE	18 07 20						1 20		1 20		1 20
	H M S	EPICENTRE	DEPTH	MAG									
JUN 19	18 07 06.8	10.4S 104.9E	33KM	4.9	SW OF SUMATRA								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE	18 18 41		74								
JUN 19	AFI EP	ZNE	20 14 46										
	S	ZNE	15 05										
	H M S	EPICENTRE	DEPTH	MAG									
JUN 20	02 38 39.9	63.1S 158.2W	33KM	4.4	S PACIFIC CORDILLERA								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE	02 42 53		18								
	EP	ZNE	46 36										
	H M S	EPICENTRE	DEPTH	MAG									
JUN 20	07 38 44.9	52.8N 167.1W	11KM	5.2	ALEUTIAN IS								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI ES	ZNE	07 58 32		67								
	ESSS	NE	08 05 54										
	EL	ZN	08 54										
	SBA EPKP	ZNE	07 57 59		131								
	ESKP	ZNE	08 01 19										
	ESKKS	N	07 12										
	ESKKP	Z	11 07										
	E	NE	17 30										
	ELR	ZNE	39 58						1 20		1 20		1 20

	H M S	EPICENTRE	DEPTH	MAG									
JUN 21	06 49 56.6	2.2S 77.6W	49KM	5.3	PERU								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE	07 03 08		93								
	ELR	ZNE	33 45										
	AFI ES	E	07 15 48		94								
	EL	ZE	33 00										
	H M S	EPICENTRE	DEPTH	MAG									
JUN 21	15 45 28.3	12.7N 123.1E	56KM	5.2	PHILIPPINE IS								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI ES	NE	16 05 52		70								
	E	NE	08 24										
	EL	N	10 16										
	ELQ	NE	14 30										
	ELR	Z	16 30										
	SBA EP	ZNE	15 58 42		94								
	H M S	EPICENTRE	DEPTH	MAG									
JUN 21	15 46 01.7	55.4S 146.9E	33KM	5.0	W OF MACQUARIE IS								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE	15 51 07		24								
	ES	ZNE	55 20										
	ELQ	ZNE	57 03										
	ELR	ZNE	58 24										
	H M S	EPICENTRE	DEPTH	MAG									
JUN 21	18 04 49.5	64.8N 147.4W	17KM	5.4	ALASKA								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA IPKP	ZNE	18 24 25	D	145								
	H M S	EPICENTRE	DEPTH	MAG									
JUN 21	18 13 02.9	64.8N 147.4W	17KM	5.6	ALASKA								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z	18 25 14		81								
	ES	E	35 20										
	E	E	39 00										
	EL	N	41 36										
	EL	ZE	42 48										
	SBA IPKP	ZNE	18 32 39	D	145								
	ELR	ZNE	19 20 00										
	H M S	EPICENTRE	DEPTH	MAG									
JUN 21	18 24 45.7	64.8N 147.4W	17KM	5.4	ALASKA								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA IPKP	ZNE	18 44 21	D	145								
	H M S	EPICENTRE	DEPTH	MAG									
JUN 21	18 53 08.2	19.8S 177.6W	401KM	4.4	FIJI								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV EP	Z	18 54 17		4								
	AFI EP	Z	18 55 00		8								
	ES	ZNE	56 22										
	SBA EP	Z	19 02 27		59								
	H M S	EPICENTRE	DEPTH	MAG									
JUN 21	19 10 31.1	23.5S 180.0E	546KM	5.0	S OF FIJI								
			H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV EP	Z	19 12 01		6								
	RAQ EP	Z	19 12 09		6								
	ES	Z	13 27										
	AFI EP	ZNE	19 13 06		12								
	ES	ZNE	15 11										
	RAR EP	ZNE	19 14 16		19								
	SBA IP	ZNE	19 19 12	U	55	-1.15							5.3
	EPCP	Z	20 05	D									

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            ISCP     Z         23 11

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 21   20 09 28.4     25.2S  70.5W  23KM  5.7  N CHILE
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         SBA  IP       ZNE 20 20 52   U   72           2  6
              EPCP     Z      21 05                                       6,4
              EPP      Z      23 10
              ES       ZNE    30 17                    1 10         1 10  6,1
              ESS      ZNE    34 55
              ELQ      NE     40 12
              ELR      ZNE    41 55
              EPKPPKP  Z      48 36
         RAR  E(S)     ZNE 20 31 36       81
         AFI  ES       E   20 33 20       94
              E        Z      35 00
              ESS      ZE     40 00
              E        ZE     47 24
              EL       ZE     53 00
              EL       N      54 00

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 21   21 20 13,9     55,7S 145,1E  20KM        N OF MACQUARIE IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         SBA  EP       ZNE 21 25 23       23
              ES       N      29 49
              ELR      ZNE    32 40

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 21   22 05 54,0     17,8S 178,7W 574KM  4,6  FIJI
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         SUV  EP       Z   22 07 05        3
         AFI  EP       ZNE 22 07 44        8
              ES       ZNE    09 12
         SBA  EP       ZN  22 15 11       61

JUN 22   SBA  EP       ZNE 01 56 53
              ES       ZNE    57 22

JUN 22   AFI  E        NE  02 33 52
              E(L)     NE     35 24

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 22   10 50 05,3     15,8S 172,7W  33KM  4,5  SAMOA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         AFI  EP       ZNE 10 50 36        2
              S        ZNE    51 00
         SBA  EP       ZNE 11 00 28       63

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 22   11 40 57,8     24,5S 179,9W 429KM  4,3  S OF FIJI
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         AFI  EP       Z   11 43 50       13
              ES       ZNE    46 04

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 22   15 36 38,9     51,7N 176,8W  54KM  5,3  ALEUTIAN IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         SBA  EPKP     Z   15 55 43      130
              ISKP     Z      59 00   D

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 22   19 08 33,5      1,3S 149,8E  34KM  5,0  NEW IRELAND
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         AFI  ES       N   19 22 00       40
              ESS      N      25 00
              EL       ZE     28 42
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         SBA  EP       ZNE 19 20 25       77
              ES       ZNE    30 20
              ELR      ZNE    47 35

JUN 22   AFI  IP       Z   22 23 27   U
              S        ZNE       48

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 23   00 25 29,8     15.0S 172.3W  33KM  5.1  SAMOA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         AFI  IP       ZNE 00 25 47.4U     1
              S        ZNE    26 04
         RAR  EP       ZNE 00 28 26       13
              ES       NE     30 44
         SBA  IP       ZNE 00 35 58.7D    64
              ELQ      NE     55 45
              ELR      ZNE    56 10

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 23   00 42 13.4     14.9S 172.4W  33KM  5.1  SAMOA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         AFI  IP       ZNE 00 42 30.4U     1
              S        ZNE       44
         RAR  EP       ZNE 00 45 12       14
              E(S)     ZNE    47 27
         SBA  IP       ZNE 00 52 42.3D    64 -1.34                        5,8

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 23   05 05 04,8      5.8S 130,5E  85KM  5,9  BANDA SEA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         AFI  EP       ZE  05 14 46       57
              E(L)     ZE     32 30
         SBA  IP       ZNE 05 16 36,7U    74 -1,26                        5,7
              ES       ZNE    26 05
              ELR      ZNE    40 50

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 23   11 47 28,9     62,5S 155,2E  33KM       BALLENY IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         SBA  EP       ZNE 11 51 10       16
              ES       ZNE    54 04
              ESS      ZNE       36
              ELR      ZNE    55 14
              EMAX     ZNE    58 40                    7 10   7 10  35 10

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 23   14 38 35,7     21,3S 179,3W 605KM  5.1  S OF FIJI
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         RAO  EP       Z   14 40 29        8
              ES       Z      41 09
         AFI  EP       ZNE 14 40 57       10
              S        ZNE    42 48
         RAR  EP       Z   14 42 13       18
         SBA  IP       ZNE 14 47 27,3     57 -1.23                        5,1

          H  M  S       EPICENTRE   DEPTH  MAG
JUN 23   21 30 11,5     19,2S 167,7E  37KM  5,3  NEW HEBRIDES IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
         SUV  EP       Z   21 32 43       10
         AFI  EP       Z   21 34 46       20
              ES       E      38 24
              ES       Z         52
              E        N      39 20
              EL       ZE     40 06
         SBA  IP       ZNE 21 40 08   D   59 -1.26                        5,9
              E.PP     ZNE       19
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		H M S	EPICENTRE	DEPTH	MAG	
JUN 24		13 28 35.9	21.4S 179.3W	592KM	4.7	FIJI
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV EP		Z 13 29 04		4	
	RAO EP		Z 13 30 35		8	
	ES		Z 32 12			
	AFI EP		ZNE 13 30 57		10	
	ES		ZNE 32 49			
	SBA EP		Z 13 37 28		57	
		H M S	EPICENTRE	DEPTH	MAG	
JUN 24		21 00 23.9	12.5N 141.6E	18KM	5.5	S OF MARIANA IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI EP		Z 21 09 42		53	
	ES		ZNE 17 20			
	ESSS		NE 22 40			
	EL		E 23 52			
	EL		ZNE 24 30			
	SBA EP		ZNE 21 13 20		91	
	ELR		ZNE 45 00			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 25		04 02 46.9	41.3S 88.3W	33KM	4.4	W CHILE RISE
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA EP		ZNE 04 12 03		53	
	ELR		ZE 27 20			
JUN 25	SBA EP		ZNE 15 34 16		-1.22	
	ES		ZE 37 10			
	ELR		ZNE 38 15			
JUN 25	SBA EP		ZNE 17 33 39		-1.00	
	ELR		ZN 37 52			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 25		23 18 04.3	12.4N 141.8E	42KM	5.6	S OF MARIANA IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI EP		Z 23 27 27		53	
	ES		ZNE 34 56			
	ESSS		NE 40 00			
	EL		ZNE 42 00			
	SBA EP		ZNE 23 31 09		91	
	ELR		ZN 24 02 35			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 26		09 09 42.4	18.0S 178.3W	477KM	4.3	FIJI
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI EP		ZNE 09 11 34		7	
	S		ZNE 12 59			
	SBA IP		ZNE 09 19 06	U	60 -1.43	5.1
JUN 27	AFI EP		ZNE 04 05 59			
	S		ZNE 06 12			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 27		05 13 03.6	19.2S 169.0E	144KM	4.1	NEW HEBRIDES
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA EP		Z 05 22 48		59	
JUN 27	AFI IP		Z 13 10 31.8U			
	S		ZNE 49			
JUN 27	AFI EP		ZNE 17 49 41			
	S		ZNE 50 02			

		H M S	EPICENTRE	DEPTH	MAG	
JUN 27		19 42 09.5	15.3S 171.8W	33KM	4.2	SAMOA
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI EP		ZNE 19 42 31		1	
	S		ZNE 55			
	T		ZNE 44 56			
	RAR E(S)		ZNE 19 47 56		13	
JUN 27	AFI EP		ZNE 19 54 21			
	S		ZNE 41			
	T		ZNE 56 14			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 27		21 37 48.1	46.4S 96.0E	33KM	5.4	SE INDIAN RISE
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA EP		ZE 21 45 32		41	
	EPP		E 47 19			
	E		Z 50 03			
	ES		ZE 51 49			
	ESS		ZE 54 25			
	ELQ		N 55 00			
	ELR		ZNE 57 08			5 19 6 18 6 19
JUN 27	AFI EP		ZNE 21 47 13			
	S		ZNE 36			
	T		ZNE 49 14			
JUN 27	AFI EP		ZNE 23 38 16			
	S		ZNE 37			
	T		ZNE 40 15			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 28		00 14 34.5	9.5S 157.4E	16KM	5.4	SOLOMON IS
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI ESS		NE 00 27 36		30	
	EL		ZE 29 00			
	SBA ESSS		N 00 41 45		69	
	ELR		ZNE 46 50			
	EPKPPKP?		Z 53 35			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 28		05 30 03.6	22.2S 176.5W	131KM	4.0	S OF FIJI
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI EP		ZNE 05 32 17		9	
	S		E 33 44			
	S		ZNE 50			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 28		05 34 06.4	14.4S 172.6W	40KM	4.8	SAMOA
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI IP		ZNE 05 34 21.5U		1	
	S		ZNE 41			
JUN 28	AFI EP		ZNE 09 03 08			
	S		ZNE 23			
		H M S	EPICENTRE	DEPTH	MAG	
JUN 28		14 34 04.3	47.0S 165.8E	37KM	5.6	W OF NEW ZEALAND
			H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	CBZ EP		Z 14 35 29		6	
	ES		Z 36 32			
	SBA EP		ZNE 14 40 20		31	
	ES		ZNE 45 34			
	ESS		ZNE 47 38			
	ELQ		NE 48 36			
	ELR		ZNE 49 05			3 20 3 20 2 14

	AFI	EP	ZNE	14	41	21		38								
		ES	ZE		47	28										
		ELQ	NE		50	54										
		ELR	ZN		53	00										
JUN 28	AFI	EP	ZNE	19	13	01										
		ES	NE		15	26										

	H	M	S	EPICENTRE		DEPTH	MAG	
JUN 29	09	25	47.4	15.8S	172.4W	14KM	4.8	SAMOA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	09	26	14		2							
		S	ZNE			33									

	H	M	S	EPICENTRE		DEPTH	MAG	
JUN 29	10	36	28.7	21.2S	174.4W	33KM	4.4	TONGA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	10	38	13		8							
		S	ZNE			39	27								

	H	M	S	EPICENTRE		DEPTH	MAG	
JUN 29	16	36	15.7	7.2S	128.6E	121KM	5.4	BANDA SEA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	16	45	46		59							
		E	ZNE			54	00								
JUN 29	AFI	IP	Z	21	27	15	D								
		E	ZNE			28	04								
		E	ZNE			29	56								
JUN 30	AFI	IP	Z	06	37	08	U								
		S	ZNE			28									
JUN 30	AFI	E(P)	Z	15	14	05.3									
JUN 30	AFI	IP	ZNE	23	36	24									
		S	ZNE			44									
JUL 0_	AFI	EP	ZNE	00	32	43									
		S	ZNE			33	00								
JUL 01	AFI	IP	ZNE	04	59	03	UNE								
		S	ZNE			16									

	H	M	S	EPICENTRE		DEPTH	MAG	
JUL 01	07	28	57.6	0.8S	98.7E	26KM	5.5	S SUMATRA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	07	41	31.0		85							
		ES	ZNE	08	05	39.0									
	AFI	EP	Z	07	41	55		89	-0.94						6.4
		ES	ZNE			53	00								
		ESS	N			58	24								
		EL	NE	08	05	30									
		EL	ZN			08	30								

	H	M	S	EPICENTRE		DEPTH	MAG	
JUL 01	09	16	43.8	5.6S	0.3W	126KM	5.0	S SANDWICH IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	Z	09	24	56.0		96							

	H	M	S	EPICENTRE		DEPTH	MAG	
JUL 01	23	10	07.2	54.4N	158.0W	33KM	6.2	S OF ALASKA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	23	21	13		69							
		ES	ZNE			30	23								
		ESS	ZE			34	31								
		ESSS	ZNE			38	00								

		ELR	ZN		41	17										
	RAR	E(SSS)	E	23	36	18		75								
		ELQ	E		41	12										
		E	Z		21	51										
		ESS	E		31	32										
	SBA	EPKP	NE	23	29	24		134								
		EPP	Z		31	50										
		ESKP	Z		32	54										
		EPS	ZN		42	12										
		ESS	NE		49	30										
		ELQ	NE	24	05	00										
		ELR	N		15	00										

	H	M	S	EPICENTRE		DEPTH	MAG	
JUL 02	07	03	52.9	8.7N	93.8E	33KM	5.7	NICOBAR IS

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	Z	07	16	49		95							
		E-PP	Z		17	13									
		EPP	Z		20	57									
		ESKS	NE		27	40									
		ES	NE		28	28									
	AFI	ES	ZE	07	28	00		96							
		ES	ZE		30	00									
		ESS	ZNE		35	06									
		E(SSS)	Z		39	12									
		EL	N		44	42									
		EL	Z		48	24									
JUL 03	AFI	EP	Z	02	12	58										
		S	ZNE		13	31										
		T	ZNE		16	00										

	H	M	S	EPICENTRE		DEPTH	MAG	
JUL 03	11	03	45.3	21.9S	179.8E	690KM		S OF FIJI

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	11	06	05		11							
		ES	ZNE		08	01									
	SBA	EP	ZNE	11	29	00		56							
JUL 03	AFI	EP	ZNE	16	13	13									
		S	ZNE			38									

NO AFI READINGS ON 4TH AND 5TH JULY

JUL 03	SBA	EP	ZNE	17	32	39.0										

	H	M	S	EPICENTRE		DEPTH	MAG	
JUL 04	14	16	51.6	3.8S	0.7W	28KM	5.4	CHILE

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	14	26	48.0		98							
		ES	N		34	45.0									
		ESS	N		38	56.0									
		ELQ	NE		41	48.0									
		ELR	NE		43	48.0									
JUL 04	SBA	EP	ZNE	18	29	49.5										
JUL 05	SBA	EP	ZNE	20	59	17.5										
JUL 05	SBA	EP	ZNE	22	00	21.0										

	H	M	S	EPICENTRE		DEPTH	MAG	
JUL 06	00	15	01.5	62.7S	159.4W	33KM	5.6	S PACIFIC CORDILLERA

			H	M	S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	00	19	19.2		18							
		ES	ZNE		23	00									
		ELQ	ZNE			42									

JUL 06	SBA	EP	Z	02 36 43												
		ES	ZNE	40 54												
	H M S		EPICENTRE		DEPTH	MAG										
JUL 06	05 21 25.3		56.1S 27.3W		154KM	5.0 S SANDWICH IS										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EP	ZNE	05 29 35		46										
	H M S		EPICENTRE		DEPTH	MAG										
JUL 06	13 42 22.5		52.6N 168.2W		14KM	5.9 ALEUTIAN IS										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	ZN	13 53 10		66										
		ES	ZNE	14 01 55												
		EL	ZNE	09 32												
		EL	ZN	12 12												
	RAR	ES	N	14 03 35		74										
	SBA	EPKP	Z	14 01 34.5		131										
		EPP	ZNE	04 08												
		EPKS	ZNE	57												
	H M S		EPICENTRE		DEPTH	MAG										
JUL 06	20 23 28.8		20.6S 169.1E		53KM	4.1 NEW HEBRIDES										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EP	Z	20 33 13		57										
JUL 07	SBA	EP	ZNE	02 09 48												
		ES	ZNE	14 00												
	H M S		EPICENTRE		DEPTH	MAG										
JUL 07	09 42 08.0		20.3S 177.7W		540KM	4.6 FIJI										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z	09 43 31		4										
	AFI	IP	ZNE	09 44 05	U	9	-1.18									
		ES	ZNE	45 38												
	RAO	P	Z	09 44 13		9										
		ES	Z	45 46												
	SBA	IP	ZNE	09 51 13.8		58										
JUL 07	AFI	E(P)	ZNE	10 40 37												
		E(S)	ZNE	41 40												
	SBA	EP	ZNE	10 42 04.5												
JUL 07	AFI	IP	Z	11 46 10	U											
		S	NE	30												
	H M S		EPICENTRE		DEPTH	MAG										
JUL 07	19 25 19.1		9.8S 160.0E		42KM	9.6 SOLOMON IS										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EP	ZNE	19 36 17.2		68										
	H M S		EPICENTRE		DEPTH	MAG										
JUL 08	00 58 54.7		15.4S 167.9E		137KM	5.2 NEW HEBRIDES IS										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z	01 01 29		11										
	RAO	EP	Z	01 03 13		19	0.31							6.6		
	AFI	EP	ZNE	01 03 20		20										
		EPP	ZE	56												
		ES	NE	07 00												
		E(*SS)	ZE	39												
	RAR	EP	ZNE	01 05 05		32	-0.48							6.2		
	SBA	IP	ZNE	01 09 05.6U		62	-0.25							6.8		
		ES	ZN	17 26												
		ELQ	ZN	24 55												
		ELR	ZN	28 28												
JUL 08	SBA	EP	ZNE	05 59 20.2												

	H M S		EPICENTRE		DEPTH	MAG										
JUL 08	06 22 52.8		16.3S 166.8E		9KM	5.0 NEW HEBRIDES IS										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	Z	06 27 42		21										
		ES	ZNE	31 36												
		EL	ZE	33 04												
	SBA	EP	ZNE	06 33 12		62										
		ES	NE	41 36												
		ELR	ZNE	52 40												
	H M S		EPICENTRE		DEPTH	MAG										
JUL 08	07 39 43		20.3S 179.1W		589KM	3.8 FIJI										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	ZNE	07 41 56		9										
		ES	NE	43 41												
JUL 08	AFI	EP	ZNE	09 54 23												
		S	ZNE	55 07												
		ET	ZNE	58 13												
	H M S		EPICENTRE		DEPTH	MAG										
JUL 08	10 02 19.5		25.8S 179.8E		459KM	4.1 S OF FIJI										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	RAO	IP	Z	10 03 36.3U		4										
		ES	Z	04 35												
	AFI	EP	Z	10 05 22		14										
		ES	NE	07 40												
	RAR	EP	Z	10 06 13		19										
	H M S		EPICENTRE		DEPTH	MAG										
JUL 08	13 13 29.1		19.9S 178.1W		520KM	4.3 FIJI										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z	13 14 53		4										
	AFI	EP	Z	13 15 32		8										
		ES	ZNE	17 07												
JUL 08	AFI	IP	ZNE	13 40 31.6U												
		S	ZNE	53												
JUL 09	SBA	EP	ZNE	05 48 48.5												
JUL 09	AFI	EP	ZNE	08 04 42												
		S	ZNE	05 02												
JUL 09	AFI	EP	Z	10 45 15												
		S	ZNE	46 00												
JUL 09	AFI	EP	Z	19 27 14												
		S	ZNE	49												
	H M S		EPICENTRE		DEPTH	MAG										
JUL 09	21 34 54.8		37.1S 96.3W		33KM	4.8 S PACIFIC OCEAN										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EP	ZNE	21 44 27		55										
	H M S		EPICENTRE		DEPTH	MAG										
JUL 10	06 29 30.5		17.6S 178.8W		529KM	4.8 FIJI										
			H M S		DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z	06 30 49		3										
	AFI	EP	ZNE	06 31 26		8										
		ES	ZNE	32 58												
	SBA	EP	ZN	06 38 51		61										

		H M S	EPICENTRE	DEPTH	MAG	
JUL 10		10 18 25.1	21.6S 179.4W	621KM	4.8	FIJI

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV EP	Z 10 19 46			4							
	AFI EP	ZNE 10 20 40			11							
	ES	ZNE 22 31										
JUL 10	AFI E(P)	Z 11 18 50										
	E(S)	ZNE 20 04										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 10	12 01 31.5	5.9S 113.1E	591KM	5.4	JAVA SEA

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	ZNE 12 12 12			74							
	SBA IP	ZNE 12 12 25	D		77							
	G=PP	ZNE 14 32.8										
	ES	ZE 21 26										
	ESS	ZNE 26 39										
JUL 10	AFI EP	Z 16 28 42										
	ES	ZNE 29 31										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 10	19 18 14.7	4.8N 127.1E	118KM	5.2	TALAUD IS

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI E(SSS)	N 19 45 00			63							
	EL	ZE 48 12										
	SBA EP	ZNE 19 30 41.5			85							
JUL 10	SBA EE	ZNE 22 20 35										
	P	ZNE 39										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 11	04 17 02.1	7.0S 155.8E	88KM	4.8	SOLOMON IS

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z 04 23 26			33							
	E	Z 43										
	E	N 31 06										
	EL	ZE 32 18										
	SBA EP	ZNE 04 28 13			71							
JUL 11	SBA EP	ZNE 08 46 52.5										
JUL 11	AFI EP	ZN 06 51 56										
	E	ZNE 52 22										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 11	14 52 58.1	20.9S 68.8W	119KM	4.7	CHILE-BOLIVIA BORDER

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZN 15 04 39			76							

	H M S	EPICENTRE	DEPTH	MAG	
JUL 11	17 31 23	19.4S 177.7W	381KM	4.2	FIJI

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV EP	Z 17 32 40			4							
	AFI EP	ZNE 17 33 17			8							
	ES	ZNE 34 45										
	RAO EP	Z 17 33 38			10							
	ES	Z 35 27										
	SBA EP	ZNE 17 40 46			59							
JUL 12	AFI EP	ZNE 02 07 11										
	S	ZNE 22 39										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 12	04 28 33.4	0.2S 125.5E	34KM	4.8	MOLUCCA SEA

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	Z 04 40 43.8			81							

	H M S	EPICENTRE	DEPTH	MAG	
JUL 12	05 45 14.1	11.2S 166.5E	124KM	4.6	SANTA CRUZ IS

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI E	NE 05 53 48			21							
	EL	Z 55 00										
	SBA EP	Z 05 55 53			67							
JUL 12	SBA EP	ZNE 12 10 50										
JUL 12	AFI EP	ZNE 13 25 49										
	S	ZNE 26 09										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 12	21 14 53	16.1S 178.3E	33KM	5.3	FIJI

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	ZE 21 17 13			10							
	ES	NE 19 00										
	ES	Z 12										
	RAR ES	ZNE 21 23 53			21							
	ESS	ZNE 24 52										
	EP	Z 19 40										
	SBA EP	ZNE 21 25 11			62							
	ES	Z 33 46										
	EL	N 42 15										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 12	21 52 36.4	55.6S 30.2W	33KM	5.3	S SANDWICH IS

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA EP	ZNE 20 01 00			46							

	H M S	EPICENTRE	DEPTH	MAG	
JUL 13	00 51 16.8	32.2S 178.3W	33KM	4.5	S OF KERMADEC IS:

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO EP	Z 00 52 03			3							
	ES	Z 39										
	SBA EP	ZNE 00 59 41			46							

	H M S	EPICENTRE	DEPTH	MAG	
JUL 13	07 36 07.2	16.2S 176.1E	50KM	5.4	FIJI

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z 07 38 32			10							
	ES	N 40 13										
	ES	ZE 32										
	RAR ES	ZNE 07 45 08			22							
	SBA EP	ZNE 07 46 24			62							

	H M S	EPICENTRE	DEPTH	MAG	
JUL 13	10 04 19.0	20.4S 169.3E	46KM	5.0	NEW HEBRIDES IS

		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI EP	Z 10 08 40			19							
	E	Z 12 20										
	E	E 13 00										
	EL	Z 48										
	SBA EP	ZNE 10 14 05			58							
	ES	ZN 22 35										
	ELR	ZNE 31 34										
JUL 13	SBA EP	ZNE 11 17 21.5										
	ES	ZNE 28										

			H M S	EPICENTRE	DEPTH	MAG							
JUL 13			14 20 38.7	15.2S 74.9W	74KM	5.2	COAST OF PERU						
				H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 14 32 49			81								
JUL 13	AFI	EP	ZNE 18 53 04											
		S	ZNE 22											
	H M S	EPICENTRE	DEPTH	MAG										
JUL 14	02 47 53.0	11.4S 166.2E	80KM	5.2	SANTA CRUZ IS									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	ZNE 02 52 37		22	-0.29								6.0
	SBA	EP	ZNE 02 58 35		66	-1.11								5.9
		ELR	ZNE 03 19 38											
	H M S	EPICENTRE	DEPTH	MAG										
JUL 14	09 06 22.2	8.8S 124.1E	23KM	5.3	TIMOR									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EP	ZNE 09 17 58.5		72									
JUL 14	AFI	EP	ZNE 19 00 19											
		S	ZNE 41											
	H M S	EPICENTRE	DEPTH	MAG										
JUL 15	14 40 35.0	6.8N 126.3E	37KM	5.3	PHILIPPINE IS									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EP	ZNE 14 53 20.5		87									
	H M S	EPICENTRE	DEPTH	MAG										
JUL 15	17 04 13.0	21.9S 179.6W	574KM	4.1	FIJI									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	P	Z 17 05 42		4									
	AFI	EP	Z 17 06 40		11									
		ES	NE 08 43											
	H M S	EPICENTRE	DEPTH	MAG										
JUL 16	13 34 29.9	0.8S 132.6E	33KM		N NEW GUINEA									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV	EP	Z 13 43 08		48									
	AFI	EP	Z 13 44 16		57									
		ES	ZNE 52 08											
		ESS	ZNE 55 18											
		ESSS	E 57 30											
		ELQ	NE 58 30											
	RAR	EP	Z 13 45 40		69									
		E(S)	E 55 46											
	SBA	EP	ZNE 13 46 36		79									
		ES	ZNE 56 34											
		ESS	ZNE 14 01 38											
		ESSS	ZNE 05 00											
		ELQ	ZNE 07 22											
		ELR	ZNE 12 52											
	H M S	EPICENTRE	DEPTH	MAG										
JUL 16	21 11 16.5	16.8S 173.4W	24KM	4.9	TONGA									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	IP	ZNE 21 12 08		U 3									
		S	ZNE 41											
	RAO	EP	Z 21 14 23		13									
		ES	Z 16 42											
	RAR	EP	ZNE 21 14 29		14									
		ES	ZNE 16 46											
		ET	ZNE 28 10											
JUL 17	AFI	EP	Z 02 24 23											
JUL 18	AFI	EP	Z 10 14 22			-0.68								

		ES	ZNE 15 10										
JUL 18	SBA	EP	ZNE 12 59 19.8										
JUL 18	AFI	IP	ZNE 17 31 12	U	-0.10								
		S	ZNE 33										
JUL 19	AFI	EP	ZNE 00 00 27										
		S	ZNE 47										
JUL 19	SBA	EP	ZNE 05 42 02.5										
JUL 19	AFI	EP	ZNE 07 32 13										
		S	ZNE 43										
	H M S	EPICENTRE	DEPTH	MAG									
JUL 19	12 41 28.8	20.3S 178.2W	518KM	4.5	FIJI								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SUV	IP	Z 12 42 52.7U		4								
	AFI	EP	ZNE 12 43 34		9								
		ES	ZNE 45 10										
	RAO	EP	Z 12 43 35		9								
		ES	Z 45 14										
	SBA	IP	ZNE 12 50 33.5V		58 -0.93								5.5
JUL 19	AFI	EP	Z 16 04 46										
		E(S)	NE 05 56										
	H M S	EPICENTRE	DEPTH	MAG									
JUL 20	01 39 44.5	46.9S 33.9E	33KM	5.0	PRINCE EDWARD IS								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE 01 48 54		52								
JUL 20	AFI	EP	ZNE 03 55 36										
		S	ZNE 56 02										
JUL 20	SBA	EP	ZNE 04 35 30										
		ES	ZNE 40.5										
	H M S	EPICENTRE	DEPTH	MAG									
JUL 20	05 47 31.4	1.2S 126.7E	73KM	4.9	MOLUCCA SEA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE 05 59 31.5		79								
	H M S	EPICENTRE	DEPTH	MAG									
JUL 20	11 40 41.2	6.3S 147.0E	61KM	5.1	E NEW GUINEA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	E	NE 11 58 00		41								
		EL	ZE 12 00 30										
	SBA	EP	ZNE 11 52 02		72								
	H M S	EPICENTRE	DEPTH	MAG									
JUL 20	13 11 35.0	28.1S 66.9W	157KM	5.3	ARGENTINA								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE 13 22 29.5		70 -0.81								6.1
		EPCP	ZNE 23 13										
		ES	ZNE 32 33										
	AFI	ES	NE 13 38 18		96								
		EL	Z 56 00										
	H M S	EPICENTRE	DEPTH	MAG									
JUL 20	14 26 14.1	51.4N 178.3E	33KM	5.3	ALEUTIAN IS								
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	ES	ZNE 14 45 42		66								
		EL	ZNE 55 42										
	SBA	EPKP	ZNE 14 45 19		129								
		EPKS	Z 48 38										

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JUL 20  AFI  EP      Z   14 39 56
             S       ZNE    40 46

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 20   15 36 20.1   7.7N 134.9E   8KM        W CAROLINE IS
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         SUV  EP      Z   15 45 20          50
         AFI  EP      Z   15 46 09          57
              E       ZNE    32
              ES      ZNE    54 20
              EL      NE  16 00 00
              EL      ZNE    03 08
         RAR  EP      Z   15 47 40          70
              ES      ZNE    56 57
              E       E   16 01 32
         SBA  EP      ZNE 15 49 08.2        87 -0.48                          6.8
              EPP     ZNE    52 44
              EPPP    ZNE    54 42
              ES      ZNE    59 46                                  16 10 7.1
              ESS     ZNE 16 05 18
              ELQ     ZNE    12 00
              ELR     ZNE    17 46

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 20   23 12 54.4   26.5S 178.5E 596KM  5.2  S OF FIJI
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         RAO  EP      Z   23 14 24           4
              ES      Z      15 32
         SUV  P       Z   23 14 58           8
         AFI  EP      ZNE 23 16 06          15
              ES      ZNE    18 36
         SBA  IP      ZNE 23 21 10.2U       52 -0.39                          6.1
              EPCS    Z      25 09.8

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 21   02 22 18.9   54.3S 156.8E  25KM        MACQUARIE IS
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         CBZ  EP      Z   02 23 49           6
              ES      Z      24 54

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 21   07 02 07.6   4.8S 101.4E   33KM  5.0  S SUMATRA
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         SBA  EP      Z   07 14 16          80

JUL 21   AFI  EP      Z   11 45 34
              ES      NE     47 19

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 21   12 45 57.4   21.3S 176.2W 199KM  4.5  FIJI
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         SUV  EP      Z   12 47 12           6
         AFI  EP      ZN  12 47 42           8
              ES      ZN     49 43
         SBA  EP      Z   12 55 26          57

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 22   03 58 02.4   33.5S 179.0W  39KM  5.0  S OF KERMADEC IS
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE MAG
         RAO  EP      Z   03 59 02           4
         SUV  EP      Z   04 01 35          15
         AFI  EP      ZNE 04 02 35          21
              ES      ZNE    06 14
              ET      ZNE    21 16
         RAR  EP      ZNE 04 02 38          21
              ES      ZNE    06 19
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         SBA  EP      ZNE 04 06 26          45 -0.95                          5.9
              ES      ZNE    13 00                                   9  5  6.8
              ESS     ZNE    16 09
              ELQ     ZNE    18 34
              ELR     ZNE    19 44

JUL 22   SBA  EP      ZNE 05 05 01.5
              ES      ZNE       09

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 22   05 28 34.1   10.9S 165.8E  64KM  5.0  SANTA CRUZ IS
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         SBA  IP      ZNE 05 39 21.8V       67 -0.87                          6.2

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 22   06 40 53.4   33.7S 178.7W  26KM  4.6  S OF KERMADEC IS
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         RAO  EP      Z   06 42 42           4
         AFI  EP      Z   06 45 34          21
         SBA  EP      ZNE 06 49 09.5        45

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 22   07 49 35.9   59.7S 26.2W  33KM  5.4  S SANDWICH IS
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP      ZNE 07 57 29.8        42

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 22   13 47 54.0   31.6S 69.5W  111KM 4.9  ARGENTINA
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP      ZNE 13 58 29.8        66

JUL 22   AFI  IP      Z   15 26 30  D
              S       ZNE    27 07

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 22   16 56 53.3   40.7N 30.8E   4KM  6.0  TURKEY
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EPKP    ZNE 17 16 16.5        139
              EPP     ZNE    19 14
              EPKS    ZNE    20 08
              ESS     ZNE    37 36
              ESSS    ZNE    42 48
         SUV  EPKP    Z   17 16 33          144
         AFI  EPKP    ZNE 17 16 40          147
              E       ZN     19 20
              ESKS    ZN     23 36
              ESKKS   N      26 55
              EPPP    ZN     30 04
              E(SKKS) Z      32 52
              ESS     ZN     39 24
              ESSS    Z      44 56
              EL      ZN  18 00 00
              EL      ZN  17 04 48
               MAX    ZN     14
               MAX    ZN     21
         RAR  EPKP    ZNE 17 17 03          159
              EPP     Z      21 12
              E       Z      31 45
              ESS     E      41 14

          H  M  S     EPICENTRE    DEPTH  MAG
JUL 22   17 48 06.0   40.6N 30.7E   26KM  5.0  TURKEY
                                  H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EPKP    ZNE 18 07 31          139

JUL 22   AFI  IP      ZNE 22 44 13  U
              S       ZNE       34
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		H M S	EPICENTRE	DEPTH	MAG	
JUL 22		18 09 55,7	40,8N 30,4E	33KM	5,0	TURKEY

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EPKP	ZNE	18	29	20,5		139								
AFI	EPKP	Z	18	29	36		147								

	H M S	EPICENTRE	DEPTH	MAG	
JUL 23	03 08 43,7	15,7S 167,1E	33KM	4,9	NEW HEBRIDES

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
SJV	EP	Z	03	11	33		11								
AFI	IP	Z	03	13	23,3		20	=1,33							4,9
	ES	ZN		17	32										
	EL	Z		18	30										
SBA	EP	ZNE	03	19	04,5		62								
JUL 23 AFI	EP	ZNE	13	27	12										
	S	ZNE			47										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 23	13 48 05,8	56,2S 158,3E	33KM	5,1	MACQUARIE IS

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
CBZ	EP	Z	13	49	50		7								
	ES	Z		50	06										
SBA	EP	ZNE	13	52	58	U	22	=0,24							6,1
	ES	ZNE		57	12										
	ESSS	ZNE		58	14										
	ELR	ZNE		59	20										
JUL 23 RAR	E(P)	Z	14	03	40										
AFI	EP	ZN	14	03	56										
	E(S)	ZN		09	00										
	EL	ZN		10	36										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 23	18 44 13,6	20,0S 175,5W	77KM	4,9	TONGA

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE	18	45	55		7								
	S	ZNE		47	02										
	T	ZNE		51	06										
RAR	EP	Z	18	47	38		15								
	ES	ZNE		50	10										
	ET	ZNE	19	01	44										
SBA	EP	Z	18	54	04,5		59								

	H M S	EPICENTRE	DEPTH	MAG	
JUL 24	01 18 21,3	14,9S 167,3E	125KM		NEW HEBRIDES

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE	01	28	36,2		63								

	H M S	EPICENTRE	DEPTH	MAG	
JUL 24	07 39 31,7	8,3S 121,3E	197KM	5,7	FLORES IS

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	Z	07	49	57		66	=0,43							6,4
SBA	IP	ZNE	07	50	44	D	73	=0,71							6,1
JUL 24 AFI	E(S)	ZN	09	43	09										
JUL 24 AFI	E(S)	ZN	13	42	44										
JUL 24 SBA	EP	ZNE	18	13	04										
JUL 25 AFI	E(P)	Z	07	15	44										
	E(S)	NE		17	30										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 26	06 31 10,6	31,8S 178,7W	37KM	5,1	KERMADEC IS

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
RAO	EP	Z	06	31	51		3								
SBA	EP	ZNE	06	39	40,5		47								
	EPCP	ZNE		41	11										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 26	08 14 56,3	22,0S 170,1E	30KM	5,0	LOYALTY IS

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
SUV	EP	Z	08	17	06		9								
AFI	EP	Z	08	19	11		19								
	ES	ZN		22	48										
	E(L)	N		23	16										
	EL	Z		24	12										
SBA	EP	ZNE	08	24	33		56								
	ES	ZNE		32	26										
	ESS	ZNE		36	30										
	EL	ZNE		41	30										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 26	18 52 21,2	17,4S 174,0W	15KM	5,0	TONGA

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE	18	53	24		4								
	S	ZNE		54	06										
RAR	EP	ZNE	18	55	40		14								
	ES	ZNE		58	04										
	ET	ZNE	19	09	16										
SBA	EP	ZNE	19	02	39		61								

	H M S	EPICENTRE	DEPTH	MAG	
JUL 26	18 53 01,3	39,5N 40,4E	33KM	5,6	TURKEY

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EPKP	ZNE	19	12	20		136								
	EPP	ZNE		14	57										
	EL	ZNE	20	00	50										
JUL 26 AFI	E	E	19	57	30										
	EL	Z	20	00	00										
	EL	N		01	00										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 27	11 35 33,8	35,1S 54,0E	33KM	5,0	S INDIAN OCEAN

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE	11	45	44		61								
JUL 27 AFI	IP	ZNE	22	34	32,5U										
	S	ZNE			51										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 28	05 16 28,2	22,1S 169,9E	33KM	4,1	LOYALTY IS

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE	05	26	04,5		56								
JUL 28 AFI	IP	Z	08	07	33,2U										
	S	ZNE			55										

	H M S	EPICENTRE	DEPTH	MAG	
JUL 28	09 47 19,3	49,7S 11,7E	33KM	5,0	S OF AUSTRALIA

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
SBA	EP	ZNE	09	53	56		52								

	H M S	EPICENTRE	DEPTH	MAG	
JUL 28	14 25 50,1	20,7S 178,5W	555KM	4,7	FIJI

			H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
AFI	EP	ZNE	14	28	02		9	=0,75							

		ES	ZNE	29 42										
	SBA	IP	ZNE	14 34 50,5	U	58	=0,81							5,6
JUL 28	AFI	EP	ZNE	14 40 47										
		ES	ZNE	41 37										

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 28	18	32	39,9	15,2S	178,5W	375KM	4,3	FIJI						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE	18	34	19		7	=0,41						
		S		ZNE		35	37									
	SBA	EP		ZNE	18	42	30		63							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 28	20	06	53,7	8,4S	116,9E	63KM	5,4	SUMBAWA IS						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	20	18	23		74							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 28	23	38	59,9	5,2S	145,0E	81KM	5,0	E NEW GUINEA						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	23	50	26		74							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 29	05	20	05,3	6,6S	155,2E	381KM	5,0	SOLOMON IS						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	05	30	47		71							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 29	07	04	27,7	4,6S	153,5E	49KM		NEW IRELAND						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	07	15	58		74							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 29	10	24	24,6	6,8N	73,0W	161KM	6,0	N COLOMBIA						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAR	EP		Z	10	37	07		89							
		E		Z			45									
		ES		E		47	24									
		E		E		48	39									
	AFI	EP		Z	10	37	56		100							
		EPP		ZE		41	44									
		ESCS		ZNE		48	24									
		ES		ZNE		50	13									
		ESS		ZE		56	24									
		E		N	11	04	56									
		EL		ZNE		06	30									
		EL		ZNE		11	30									
	SBA	EP		ZNE	10	38	05,8		103							
		EPP		ZNE		42	19									
		ES		ZNE		49	30									
		ESS		ZNE		56	34									
		ESSS		ZNE	11	00	34									
		ELQ		ZNE		08	00									
JUL 29	SBA	EP		ZNE	19	36	44,5									
		ES		ZNE			49									
JUL 29	AFI	IP		ZNE	20	57	53	U								
		S		ZNE		58	14									
JUL 29	AFI	E(S)		ZNE	21	45	36									

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 29	22	04	27,2	17,1S	177,1W	187KM	4,2	FIJI						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		Z	22	06	00		6							

		ES	NE	07 32										
	RAR	ES	ZNE	22 12 03			17							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 29	23	59	58,7	10,6N	67,3W	10KM		COAST OF VENEZUELA						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAR	E		N	00	25	04		96							
	SBA	EP		ZNE	00	14	21		108							
		EPP		ZNE		18	48									
		ESS		ZNE		33	10									
		ESSS		ZNE		37	36									
		ELQ		ZNE		45	00									
		ELR		ZNE		48	26									

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 30	01	01	16,2	33,0S	179,1W	33KM		S OF KERMADEC IS						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP		Z	01	02	06		4							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 30	01	31	01,7	40,7N	3,0E	16KM	5,6	TURKEY						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPKP		ZNE	01	50	29		142							

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 30	05	08	07,7	26,7S	177,4W	117KM	4,1	S OF FIJI						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP		Z	05	08	49		3							
		ES		Z		09	31									
	AFI	EP		Z	05	11	10		14							
		ES		ZNE		13	26									

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 30	08	19	28,3	60,1S	28,5W	33KM	5,2	S SANDWICH IS						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	08	27	17,5		42							
		ES		ZNE		34	00									
		ESS		ZNE		36	40									
JUL 30	AFI	E		Z	09	06	00									
		E(L)		NE		07	30									

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 30	10	49	32,8	56,2S	146,9E	33KM	5,1	W OF MACQUARIE IS						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	10	54	33		23	=0,20						6,1
		ES		ZNE		58	46					29	10			
		ELQ		ZNE	11	01	48									
		ELR		ZNE		02	48									
	RAR	ES		E	11	06	21		52							
JUL 30	AFI	EP		ZNE	11	06	16									
		ES		E		11	30									
		ES		ZN		12	12									
		EL		ZN		14	30									

	H	M	S	EPICENTRE		DEPTH	MAG							
JUL 30	13	35	14,4	5,3S	153,6E	50KM	5,2	NEW IRELAND						
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		Z	13	42	07		35							
		ES		ZE		47	44									
		E(LQ)		ZNE		50	16									
		ELR		ZE		52	00									
	RAR	E(S)		E	13	50	50		48							
		E		Z		54	36									
	SBA	EP		ZNE	13	46	42		73							
		ES		ZNE		56	08									

		ESS	ZNE 14 00 53											
	H M S	EPICENTRE	DEPTH	MAG										
JUL 30	15 21 15.1	10.6S 166.1E	174KM	4.6	SANTA CRUZ IS									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	15 31 51		67									
	H M S	EPICENTRE	DEPTH	MAG										
JUL 30	17 24 43.1	17.8S 178.8W	564KM	5.1	FIJI									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SUV EP	Z	17 26 00		3									
	AFI IP	ZNE	17 26 35	D	8									
	RAO EP	Z	17 27 11		11									
	ES	Z	29 16											
	SBA EP	ZNE	17 34 00.2		61	=0.44								
	E=PP	Z	35 53											6.0
	H M S	EPICENTRE	DEPTH	MAG										
JUL 30	22 21 42.6	56.3S 26.9W	118KM	5.3	S SANDWICH IS									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	22 29 54		46									
	H M S	EPICENTRE	DEPTH	MAG										
JUL 31	06 47 15.5	12.8S 165.6E	33KM	5.0	SANTA CRUZ IS									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	Z	06 57 55.5		65									
	H M S	EPICENTRE	DEPTH	MAG										
JUL 31	10 05 01.3	16.0S 174.3W	151KM	3.8	TONGA									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI IP	ZNE	10 05 52	U	3									
	S	ZNE	06 26											
	H M S	EPICENTRE	DEPTH	MAG										
JUL 31	20 18 58.0	57.9S 25.2W	33KM	4.6	S SANDWICH IS									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	20 27 06.5		44									
	H M S	EPICENTRE	DEPTH	MAG										
JUL 31	22 48 35.6	60.0S 159.1E	33KM	5.2	MACQUARIE IS									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	22 52 47.2		18	=1.33								4.8
	ES	ZNE	56 10											
	ELR	ZNE	57 28											
	AFI ES	ZNE	23 04 56		51									
	ELQ	NE	10 30											
	ELR	Z	12 00											
	H M S	EPICENTRE	DEPTH	MAG										
AUG 01	09 05 49.3	60.0S 159.2E	33KM	5.9	SOUTH OF NEW ZEALAND									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	CBZ EP	Z	09 07 56		9									
	SBA EP	ZNE	09 09 59.0		18									
	ES	ZNE	13 20.0											
	RAR EP	Z	09 13 35		48									
	ELQ	NE	25 46											
	ELR	ZNE	28 00											
	AFI E(S)	ZN	09 22 00		51									
	EL	ZNE	29 00											
AUG 01	SBA IP	ZNE	12 44 21.5											
	EPP	ZNE	45 39.5											
	H M S	EPICENTRE	DEPTH	MAG										
AUG 01	19 18 06.2	33.4S 179.4E	228KM		S OF KERMADEC IS									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	RAO EP	Z	19 19 06		5									

	H M S	EPICENTRE	DEPTH	MAG										
AUG 02	09 37 29.5	20.8S 179.1W	592KM	4.7	FIJI									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SJV P	Z	09 38 57		4									
	AFI EP	Z	09 39 46		10									
	ES	ZNE	41 32											
	RAR EP	Z	09 41 07		18									
	H M S	EPICENTRE	DEPTH	MAG										
AUG 02	18 17 32.0	40.6S 103.2E	83KM	5.1	INDONESIA									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	18 29 33.5		45									
	H M S	EPICENTRE	DEPTH	MAG										
AUG 03	00 08 12.9	20.9S 174.3W	43KM	4.4	TONGA									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI EP	Z	00 09 52		7									
	S	NE	11 09											
	ET	ZNE	17 02											
	SUV EP	Z	00 10 04		7									
	RAO EP	Z	00 10 21		9									
	ES	Z	11 59											
	RAR P	ZNE	00 11 11.5		14									
	ES	ZNE	13 07											
	EL	ZNE	14 20											
	SBA EP	Z	00 16 38.0		58									
AUG 03	SBA P	ZNE	02 05 14.2											
	H M S	EPICENTRE	DEPTH	MAG										
AUG 03	02 27 40.1	19.9S 178.6W	426KM	3.9	FIJI									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI EP	Z	02 29 46		9									
	S	NE	31 17											
	RAR EP	Z	02 31 16		18									
AUG 03	AFI E(S)	ZNE	03 07 56											
	H M S	EPICENTRE	DEPTH	MAG										
AUG 03	10 51 10.0	31.6S 178.7W	32KM	4.3	KERMADEC IS									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	RAO EP	Z	10 51 48		2									
	ES	Z	52 16											
	RAR EP	Z	10 54 20		20									
	SBA EP	Z	10 59 36.0		47									
	EPP	Z	11 01 07.0											
AUG 04	AFI IP	Z	11 14 43	D										
	S	ZNE	15 10											
	H M S	EPICENTRE	DEPTH	MAG										
AUG 04	22 34 47.7	17.7S 173.2W	33KM	4.8	TONGA									
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI EP	ZNE	22 35 42		4									
	S	ZNE	36 26											
	T	ZNE	39 40											
	SUV EP	Z	22 36 48		8									
	RAR P	ZNE	22 37 43.5		13	=0.85								
	ES	ZNE	40 01											
	EL	ZNE	40											
	ET	ZNE	50 57											
	SBA P	Z	22 44 59.9		61									

			H M S	EPICENTRE	DEPTH	MAG								
AUG 06			04 46 29,4	20,7S 178,4W	536KM	4,0	FIJI							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z 04 48 41			9								
		ES	ZNE 50 24											
	RAR	EP	Z 04 49 58,5			17								
			H M S	EPICENTRE	DEPTH	MAG								
AUG 06			11 18 12,0	34,5S 179,1W	33KM		S OF KERMADEC IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z 11 23 00			22								
			H M S	EPICENTRE	DEPTH	MAG								
AUG 06			13 14 08,7	21,4S 179,5W	561KM	4,2	FIJI							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 13 15 36			4								
	AFI	EP	Z 13 16 33			10								
		ES	ZNE 18 27											
AUG 06	AFI	EP	ZNE 18 08 04											
		ES	ZNE 11 06											
AUG 06	SBA	EP	ZNE 21 33 45,5											
			H M S	EPICENTRE	DEPTH	MAG								
AUG 07			17 07 20,1	29,4S 177,4W	147KM	4,8	KERMADEC IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAQ	IP	Z 17 07 23		D	0								
	RAR	EP	ZNE 17 11 16			18								
		ES	ZNE 14 08											
	SBA	P	Z 17 15 49,5			49								
AUG 07	AFI	EP	Z 23 05 22											
		S	ZNE 06 02											
	RAR	EP	Z 23 08 01											
			H M S	EPICENTRE	DEPTH	MAG								
AUG 08			07 13 50,8	17,5S 179,0W	523KM	4,4	FIJI							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 07 15 07			3								
	AFI	EP	ZNE 07 15 47,0			8								
		ES	NE 17 17,0											
	RAR	EP	Z 07 17 08			19								
NO AFI READINGS FROM 9TH - 14TH AUG														
AUG 08	SBA	EP	ZNE 15 15 21,5											
AUG 08	SBA	EP	ZNE 19 43 50											
		ES	ZNE 44 23,5											
			H M S	EPICENTRE	DEPTH	MAG								
AUG 09			04 20 27,8	45,0S 79,5W	33KM	5,0	S. CHILE							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 04 29 28,2			51								
			H M S	EPICENTRE	DEPTH	MAG								
AUG 09			07 14 08,1	8,5S 73,8W	46KM	5,0	PERU-BRAZIL BORDER							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 07 26 55			88								
			H M S	EPICENTRE	DEPTH	MAG								
AUG 09			08 20 03,7	6,4S 130,4E	89KM	5,7	BANDA SEA							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 08 31 30			74	=0,86							6,1
		ES	ZNE 40 55											

	ESS	ZNE	45 30											
	ELQ	ZNE	50 08											
	ELR	ZNE	55 08											
	H M S	EPICENTRE	DEPTH	MAG										
AUG 09	10 22 23,7	31,2S 180,0W	333KM	5,2	KERMADEC IS									
		H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
RAQ	EP	Z 10 23 18			3									
	ES	Z 49												
	H M S	EPICENTRE	DEPTH	MAG										
AUG 09	11 21 22,3	45,4N 150,3E	37KM	5,7	KURILE IS									
		H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
SBA	EPKP	ZNE 11 40 16			123									
AUG 09 SBA	EP	ZNE 19 49 17												
	H M S	EPICENTRE	DEPTH	MAG										
AUG 09	20 47 39,7	52,0S 15,7E	33KM	5,0	SW OF AFRICA									
		H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
SBA	EP	ZNE 20 56 26,5			49									
	H M S	EPICENTRE	DEPTH	MAG										
AUG 10	21 45 42,5	4,7S 126,9E	423KM	5,0	BANDA SEA									
		H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
SBA	EP	ZNE 21 56 47			76									
	H M S	EPICENTRE	DEPTH	MAG										
AUG 12	09 39 44,3	24,7S 177,5W	134KM	5,8	S OF FIJI									
		H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
RAQ	P	Z 09 40 51			5									
SUV	IP	Z 09 41 39,0D			8									
RAR	P	ZNE 09 43 15,5			17	0,14	35 10	19 12	53 12	6,6				
	(PP)	Z 45 39												
	S	ZNE 46 12					34 11	222 15	119 11	7,6				
	ELQ	E 47 20												
	ELR	ZN 40												
	ET	ZNE 55 10												
SBA	IP	ZNE 09 48 56	U	54	0,25					7,3				
	EPCP	ZNE 49 45												
	ES	ZNE 56 20												
	ESS	ZNE 10 00 00												
	ESSS	ZNE 01 14												
	ELR	ZNE 05 04												
	H M S	EPICENTRE	DEPTH	MAG										
AUG 12	12 30 56,1	14,9S 166,7E	23KM		NEW HEBRIDES									
		H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
SUV	EP	Z 12 33 46			12									
RAR	EP	Z 12 34 13			32									
SBA	EP	ZNE 12 41 23,8U			63	=0,56						6,6		
	ES	ZNE 49 50												
	H M S	EPICENTRE	DEPTH	MAG										
AUG 12	14 23 24,3	12,6S 166,9E	128KM		SANTA CRUZ IS									
		H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
SBA	EP	Z 14 33 54,2			65									
	H M S	EPICENTRE	DEPTH	MAG										
AUG 13	05 14 57,9	18,3S 174,0W	25KM	4,9	TONGA									
		H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
SUV	EP	Z 05 16 54			7									
RAR	IP	ZNE 05 18 12,2D			14	=0,78								
	ES	NE 20 41												
	ET	ZNE 32 18												
SBA	EP	ZNE 05 25 07,5			60									

			H M S	EPICENTRE	DEPTH	MAG	
AUG 13			16 33 04,0	50,9S 29,1E	33KM	5,4	S OF AFRICA
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SBA	ES		ZNE 16 48 54		49	
		EL		ZNE 57 28			

			H M S	EPICENTRE	DEPTH	MAG	
AUG 13			16 54 45,7	4,3S 152,5E	25KM	5,0	NEW BRITAIN
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	RAR	EP	Z	17 04 02		49	
		ES	N	10 48			
		ELQ	NE	16 18			
		ELR	Z	17 20			

			H M S	EPICENTRE	DEPTH	MAG	
AUG 13			22 15 09,6	4,4S 152,5E	29KM	5,3	NEW BRITAIN
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	RAR	EP	Z	22 24 18		49	
		ES	NE	31 16			
		ESS	ZNE	35 04			
		ESSS	N	36 36			
		ELQ	NE	38 15			
		ELR	ZNE	39 12			21 23
	SBA	EP	ZNE 22 26 35			74	18 23 14 17
		ES	ZNE	36 12			
		ESS	ZNE	41 00			
		ESSS	ZNE	44 39			
		ELQ	ZNE	46 00			
		ELR	ZNE	48 53			
AUG 15	AFI	EP	ZNE 03 47 14				
		S	ZNE	48 09			
AUG 16	AFI	EP	Z	13 57 29			
		S	ZNE	58 52			
		ET	ZNE 14 05 27				

			H M S	EPICENTRE	DEPTH	MAG	
AUG 16			17 42 55,7	56,2S 26,9W	113KM	5,4	S SANDWICH IS
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SBA	EP	ZNE 17 51 08		U	46	-0,67 6,2
		ES	ZNE	56 24,5			

			H M S	EPICENTRE	DEPTH	MAG	
AUG 16			19 18 57,6	0,9N 98,9E	26KM	5,6	N SUMATRA
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SBA	EP	ZNE 19 31 39,2			86	-0,92 6,4
		EPP	ZNE	35 33,5			
		ES	NE	42 08			
AUG 16	AFI	EP	Z	19 21 07			
AUG 16	AFI	IP	Z	22 59 20			
		S	ZNE	40			
AUG 17	SBA	EP	ZNE 02 20 10,5				
AUG 17	SBA	EP	ZNE 02 44 58				
		ES	ZNE	45 35			
AUG 17	AFI	EP	ZNE 14 57 22				
		S	ZNE	41			
		T	ZNE	59 13			

			H M S	EPICENTRE	DEPTH	MAG	
AUG 17			20 28 33,7	60,3S 27,0W	98KM	5,2	S SANDWICH IS
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SBA	EP	ZNE 20 36 15			42	

			H M S	EPICENTRE	DEPTH	MAG	
AUG 17			23 20 02,7	22,8S 68,9W	90KM	4,7	N CHILE
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SBA	EP	ZNE 23 31 33,5			75	
AUG 18	AFI	EP	ZN	14 38 40			
		S	NE	59			
		T	ZNE	40 30			
AUG 18	AFI	EP	ZNE 15 37 52				
		S	ZNE	38 21			
		T	ZNE	40 12			
AUG 19	AFI	EP	Z	04 54 55			
		ES	ZNE	56 06			
AUG 19	AFI	EP	Z	06 42 37			
		ES	NE	44 11			

			H M S	EPICENTRE	DEPTH	MAG	
AUG 19			08 21 33,1	27,1S 176,9W	33KM	4,8	KERMADEC IS
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	RAO	P	Z	08 22 14		2	
		ES	Z	50			
	AFI	EP	ZNE 08 24 49			14	
		ES	NE	27 20			
		ET	ZNE	37 30			
	RAR	EP	ZNE 08 25 12			16	
		ES	NE	28 06			
		ET	ZNE	41 31			
	SBA	EP	ZNE 08 30 40			51	

			H M S	EPICENTRE	DEPTH	MAG	
AUG 19			10 34 26,2	18,9S 173,6W	33KM	4,3	TONGA
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	AFI	EP	Z	10 35 49		9	
		S	ZNE	36 51			
	RAR	EP	Z	10 37 20		13	

			H M S	EPICENTRE	DEPTH	MAG	
AUG 19			15 28 08,5	10,4N 126,0E	58KM	5,6	PHILIPPINE IS
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	AFI	EP	Z	15 38 54		66	
		EPCP	Z	39 03			
	RAR	EP	Z	15 40 09		79	
		ES	ZNE	50 13			
		E	Z	54 26			
		E	E	56 34			
		ELQ	N	16 02 46			
		ELR	ZNE	05 30			
	SBA	IP	ZNE 15 41 09		U	91	-0,44 7,0
		EPP	ZNE	44 42			
		ES	ZNE	51 40			
		ESS	ZNE	58 05			

			H M S	EPICENTRE	DEPTH	MAG	
AUG 19			15 41 53,3	12,4S 166,6E	86KM	5,4	SANTA CRUZ IS
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SUV	EP	Z	15 45 00		13	
	AFI	IP	Z	15 46 34	U	21	0,69 6,9
		EPP	ZE	47 00			

		ES	NE	51 00												
		ESS	Z	52 15												
		ELR	ZNE	58 30												
	SBA	EP	ZNE	15 52 30				65	=0,43							6,6
		ELR	ZNE	16 12 24												
	H M S		EPICENTRE		DEPTH	MAG										
AUG 19	18 38 35,8		20,5S 175,8W		110KM	4,6	TONGA									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SJV	EP	Z	18 40 10		6										
	AFI	EP	ZNE	18 40 20		8										
		S	ZNE	41 33												
	RAO	ES	Z	18 42 17		9										
	RAR	EP	Z	18 41 54		15										
		S	ZNE	44 28,6												
		ET	ZNE	56 07												
	SBA	EP	ZNE	18 48 19,5		58										
AUG 20	AFI	EP	Z	05 47 45												
		S	NE	48 05												
AUG 20	AFI	EP	Z	12 22 42												
		S	NE	23 34												
		T	NE	26 53												
	H M S		EPICENTRE		DEPTH	MAG										
AUG 20	13 25 35,5		19,8S 178,4W		514KM	3,6	FIJI									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE	13 27 40		9										
		ES	NE	29 17												
	H M S		EPICENTRE		DEPTH	MAG										
AUG 20	15 03 36,2		25,2S	69,0W	109KM	5,6	N CHILE									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	IP	ZNE	15 14 50,5D		72	=0,93									6,0
AUG 20	AFI	EP	Z	19 01 58												
		S	ZNE	02 44												
	H M S		EPICENTRE		DEPTH	MAG										
AUG 20	19 58 22,0		8,8S	108,3W	33KM	4,9	N EASTER IS CORDILLERA									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	19 16 33,5		80										
AUG 20	AFI	EP	ZNE	22 34 31												
		S	ZNE	50												
AUG 20	AFI	EP	ZNE	23 18 54												
		S	ZNE	19 31												
	H M S		EPICENTRE		DEPTH	MAG										
AUG 21	02 02 01,7		17,8S	172,8W	33KM	4,3	TONGA									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI	EP	ZNE	02 03 01		4										
		S	ZNE	41												
		T	ZNE	07 02												
	RAR	EP	Z	02 04 51		13										
	H M S		EPICENTRE		DEPTH	MAG										
AUG 21	05 31 00,0		56,3S	26,8W	33KM	5,0	S SANDWICH IS									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	05 39 21,5		46										
AUG 21	AFI	EP	ZNE	06 30 36												
		E	Z	46												
		S	NE	58												
		T	ZNE	32 33												

	H M S		EPICENTRE		DEPTH	MAG										
AUG 21	07 33 00,6		3,6N	95,8E	33KM	5,9	W OF N SUMATRA									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	07 45 57,5		90	=0,93									6,3
		EPCP	ZNE	46 10,5												
		ES	ZNE	56 47												
		ESS	ZNE	08 02 50												
		ELQ	ZNE	09 28												
		ELR	ZNE	13 56												
	AFI	EP	Z	07 46 19		93	=0,47									7,1
		E	E	50 48												
		ES	NE	57 31												
		ESS	NE	08 03 12												
		E	Z	04 20												
		ESSS	NE	07 00												
		ELQ	NE	12 18												
		ELR	ZE	21 00												
	RAR	EP	Z	07 47 05		105										
		EPP	E	51 29												
		ESKS	NE	59 09												
		ES	ZE	08 00 51												
		EPS	N	03 15												
		ESS	N	09 28												
		ELQ	N	16 25												
		ELR	ZNE	20 16												
AUG 21	AFI	EP	Z	16 05 48												
		S	ZNE	06 09												
	H M S		EPICENTRE		DEPTH	MAG										
AUG 21	21 37 05,3		1,9S	151,9E	13KM	4,9	NEW IRELAND									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	21 48 56		76										
	H M S		EPICENTRE		DEPTH	MAG										
AUG 22	13 02 06,8		60,8S	24,6W	33KM	6,1	S OF SANDWICH IS									
			H M S		DIR	DIS	LQ	A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA	EP	ZNE	13 09 51,5		41	=2,70									4,0
		EPP	ZNE	11 14							2	38				5,3
		ES	ZNE	16 20							25	76				
		ESS	ZNE	18 40												
		ELQ	ZNE	20 00												
		ELR	ZNE	21 55												
	RAR	IP	ZNE	13 15 07,2U		91	=0,30									7,1
		E	Z	17 24												
		EPP	N	19 00												
		EPPP	Z	20 56												
		S	ZNE	25 44							11	13	23	19	16 14	7,1
		EPS	NE	27 00												
		ESS	ZE	32 14												
		ELQ	NE	39 06												
		ELR	ZNE	43 30							19	17	29	17	14 16	
	AFI	EP	Z	13 15 52		101										
		EPP	ZN	20 00												
		ESKS	ZNE	26 36												
		ES	ZN	29 00												
		E	Z	34 32												
		ESS	E	56												
		ESSS	ZE	38 00												
		ELQ	ZNE	42 00												
		ELR	ZN	49 12												
AUG 22	AFI	EP	ZNE	13 41 18												
		S	ZNE	39												
		T	ZNE	43 06												

			H M S	EPICENTRE	DEPTH	MAG							
AUG 22			17 14 40,5	60,8S 23,2W	33KM	4,9	S OF SANDWICH IS						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE 17 22 30			41								
			H M S	EPICENTRE	DEPTH	MAG							
AUG 22			17 33 14,5	22,4S 171,4E	144KM	4,8	LOYALTY IS						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	IP		ZNE 17 42 37,5D			56	=0,15							6,9
			H M S	EPICENTRE	DEPTH	MAG							
AUG 22			22 43 55	17,0S 178,7W	546KM		FIJI						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		Z 22 45 47			7								
			H M S	EPICENTRE	DEPTH	MAG							
AUG 22			22 55 14,5	20,5S 178,4W	533KM	4,0	FIJI						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		Z 22 57 24			9	=0,92							
			H M S	EPICENTRE	DEPTH	MAG							
AUG 23			17 08 46,7	23,4S 179,7E	640KM	4,6	S OF FIJI						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP		Z 17 10 10			5								
	SBA	EP		ZNE 17 17 21,5			55								
AUG 23	AFI	EP		ZNE 19 08 23											
		S		ZN 42											
			H M S	EPICENTRE	DEPTH	MAG							
AUG 24			03 21 40,0	15,3S 167,0E	42KM		NEW HEBRIDES						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE 03 32 02			63								
AUG 24	AFI	IP		ZNE 05 11 45,1D											
		S		ZNE 12 04											
			H M S	EPICENTRE	DEPTH	MAG							
AUG 24			05 30 05,8	21,0S 179,4W	672KM	4,7	FIJI						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP		Z 05 31 27			3								
	RAO	EP		Z 05 32 02			8								
		ES		Z 33 41											
	AFI	EP		Z 05 32 19			10								
		ES		ZNE 34 07											
			H M S	EPICENTRE	DEPTH	MAG							
AUG 24			10 32 52,6	14,9S 166,9E	23KM	4,6	NEW HEBRIDES						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP		Z 10 35 43			12								
	AFI	EP		ZNE 10 37 36			21	=0,11							6,1
		ES		ZNE 41 36											
		EL		ZE 42 44											
	SBA	EP		ZNE 10 43 19,8			63	=0,11							7,1
		ES		ZNE 51 55											
		ESS		ZNE 56 00											
		ELQ		ZNE 58 50											
		ELR		ZNE 11 02 16											
			H M S	EPICENTRE	DEPTH	MAG							
AUG 24			13 34 10,5	22,3S 178,1W	330KM	4,6	S OF FIJI						
					H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP		Z 13 35 34			5								
	RAO	EP		Z 13 35 53			7								
		ES		Z 37 10											
AUG 25	AFI	EP		ZE 18 21 45											

		S	NE	22 11									
		T	ZNE	23 50									
AUG 25	AFI	EP	Z	18 30 50									
		E(S)	NE	32 38									
AUG 25	AFI	EP	Z	21 44 51									
		S	NE	45 14									
AUG 25	AFI	EP	ZNE	21 48 32									
		S	ZNE	53									
		H M S	EPICENTRE	DEPTH	MAG								
AUG 26		00 36 42,1	12,2N 140,7E	33KM	6,1	W CAROLINE IS							
				H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	00 45 17			48							
	AFI	EP	Z	00 46 04			54							
		ES	ZN	53 48										
		ESS	ZN	57 20										
		ESS	N	59 00										
		EL	ZN	01 01 00										
	RAR	EP	ZNE	00 47 36			67							
		EPP	ZE	49 02										
		ES	ZNE	56 33										
		EPS	N	58 00										
		ESS	Z	01 00 55										
		ELQ	NE	04 46										
		ELR	ZNE	07 45										
	SBA	IP	ZNE	00 49 46			91	=0,38						7,1
		EPP	ZNE	53 40,5										
		ES	ZNE	01 00 20							17	3		7,8
		ELQ	ZNE	14 30										
		ELR	ZNE	20 34										
		H M S	EPICENTRE	DEPTH	MAG								
AUG 26		02 07 08,9	12,2N 140,8E	30KM	5,3	N CAROLINE IS							
				H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	02 20 13			91							
AUG 26	AFI	EP	Z	04 26 35										
		ES	ZNE	27 48										
AUG 26	AFI	EP	Z	17 19 29										
		H M S	EPICENTRE	DEPTH	MAG									
AUG 26		18 19 58,2	15,4S 172,7W	37KM	5,0	SAMOA								
				H M S	DIR	DIS	LQWA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	18 20 17	U		2							
		S	ZNE	40										
	SUV	EP	Z	18 22 11			9							
	RAR	P	ZNE	18 23 00,7			14	=0,52						
		ES	ZNE	25 19							11	11	99 11	47 10
		EL	ZNE	26 25										
		ET	ZNE	35 04										
	SBA	EP	ZNE	18 30 27,5			63							
		ES	N	39 10										
AUG 26	AFI	EP	ZNE	23 18 06										
		S	ZNE	24										
AUG 27	AFI	EP	Z	04 28 07										
		S	NE	49										
		ET	ZNE	31 40										
AUG 27	AFI	EP	Z	05 06 45										
		ES	ZNE	07 20										

			H M S	EPICENTRE	DEPTH	MAG	
AUG 27			13 08 55.9	12.3N 86.2W	183KM	5.2	NICARAGUA
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	AFI	EP	Z	13 22 17		89	
		ES	ZN	31 48			
		ESS	Z	38 18			
		EL	Z	47 24			
			H M S	EPICENTRE	DEPTH	MAG	
AUG 27			14 16 56.1	0.5N 126.1E	62KM	5.4	MOLUCCA PASSAGE
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SBA	EP	ZNE	14 29 08		81	
			H M S	EPICENTRE	DEPTH	MAG	
AUG 27			22 10 11.6	20.4S 178.1W	545KM	4.3	FIJI
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SUV	EP	Z	22 11 36		4	
	AFI	EP	ZNE	22 12 17		9	-0.76
		ES	ZNE	13 55			
	RAO	EP	Z	22 12 19		9	
		ES	Z	14 03			
			H M S	EPICENTRE	DEPTH	MAG	
AUG 28			00 56 51.0	10.0S 71.2W	609KM	4.7	PERU-BRAZIL BORDER
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	SBA	IP	ZNE	01 08 34	D	87	
AUG 29	AFI	EP	Z	01 31 48			
		S	ZNE	32 13			
AUG 29	AFI	EP	Z	02 51 06			
		S	NE	38			
AUG 29	SBA	EP	ZNE	07 39 12			
		ES	ZNE	48 44			
		ESS	N	53 40			
		ELR	ZNE	08 02 44			
AUG 29	AFI	ES	N	07 46 42			
		E	Z	47 18			
		EL	ZN	54 42			
		EL	Z	59 00			
			H M S	EPICENTRE	DEPTH	MAG	
AUG 29			10 50 09.4	3.3S 141.5E	41KM	5.1	NEW GUINEA
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	AFI	ESS	N	11 09 00		47	
		EL	ZN	12 36			
	SBA	EP	ZN	11 01 53.5		76	
AUG 29	AFI	EP	Z	16 24 47			
		S	ZNE	25 12			
AUG 30	AFI	EP	Z	04 25 54			
		ES	NE	27 26			
			H M S	EPICENTRE	DEPTH	MAG	
AUG 30			04 22 01.5	31.7N 100.3E	3KM	6.1	CHINA
				H M S	DIR	DIS	LQwA/T AZ TZ AN TN AE TE MAG
	AFI	EP	Z	04 35 32		95	
		EPP	ZE	39 16			
		ESKS	NE	46 08			
		ES	ZNE	48 12			
		ESS	ZNE	52 54			
		ESSS	ZNE	57 06			
		E	NE	05 00 06			

		ELQ	N	01 48										
		ELR	Z	06 06										
	RAR	EPKP	ZE	04 40 53				109						
		E(SP)	ZNE	05 50 32										
		EL	ZNE	56 30										
	SBA	EP	Z	04 37 02				116						
		EPKP	ZNE	40 50										
		EPP	ZNE	41 44										
		ESS	ZNE	57 20										
		ELQ	ZNE	05 09 10										
		ELR	ZNE	14 22										
AUG 30	RAR	EP	Z	10 45 17										
		H M S		EPICENTRE		DEPTH	MAG							
AUG 30		11 44 02.8		18.0S 178.4W		570KM	4.2	FIJI						
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	11 45 56		8								
		S	NE	47 25										
		H M S		EPICENTRE		DEPTH	MAG							
AUG 30		11 55 50.5		30.4S 178.6W		161KM	4.8	KERMADEC IS						
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	P	Z	11 56 14.9		1								
	SUV	EP	Z	11 58 41		12								
	RAR	IP	ZNE	12 00 03.8U		19	-0.33							
		ES	ZNE	03 25										6.0
		ET	ZNE	15 49										
	SBA	IP	ZNE	12 04 18.2D		48	-0.05							6.6
AUG 30	AFI	EP	ZNE	12 30 12										
		S	ZNE	47										
AUG 30	AFI	EP	ZNE	12 53 14										
		S	ZNE	55										
		ET	ZNE	56 45										
		H M S		EPICENTRE		DEPTH	MAG							
AUG 30		13 33 26.4		45.4N 151.5E		33KM	5.5	KURILE IS						
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZNE	13 53 24		68								
		ESSS	ZNE	14 01 24										
		EL	ZNE	04 00										
		H M S		EPICENTRE		DEPTH	MAG							
AUG 30		15 23 55.5		18.1S 178.4W		599KM	3.8	FIJI						
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	15 25 51		8								
		H M S		EPICENTRE		DEPTH	MAG							
AUG 31		10 47 30.4		18.7S 169.1E		234KM	4.9	NEW HEBRIDES						
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	10 49 34		9								
		H M S		EPICENTRE		DEPTH	MAG							
AUG 31		18 53 25.2		17.5S 175.2W		277KM	5.4	TONGA						
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	18 54 35	D	5								
		S	ZNE	55 28										
	SUV	P	Z	18 54 58		6								
	RAO	EP	Z	18 56 05		12								
		ES	Z	58 12										
	SBA	IP	ZNE	19 03 13.6U		61	-0.20							6.5
AUG 31	AFI	P	Z	19 01 25										
		S	ZNE	02 18										

			H M S	EPICENTRE	DEPTH	MAG								
SEP 01			03 31 10.5	5.6S 147.2E	182KM	5.6	E NEW GUINEA							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE 03 38 40.2U			41	-0.23							
	SBA	EP	ZNE 03 42 22.5U			73								6.3
		ES	ZNE 51 52											
SEP 01	AFI	IP	ZNE 05 12 51.2U											
		IS	ZNE 13 10											
			H M S	EPICENTRE	DEPTH	MAG								
SEP 01			08 55 36.6	18.9S 169.4E	242KM	4.9	NEW HEBRIDES							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 09 05 12			59								
			H M S	EPICENTRE	DEPTH	MAG								
SEP 01			14 53 54.9	44.1S 82.1W	33KM	5.2	WEST CHILE RISE							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 15 02 56			51								
SEP 01	AFI	EP	Z 17 23 35											
		S	NE 59											
			H M S	EPICENTRE	DEPTH	MAG								
SEP 01			23 38 51.7	33.8S 178.6W	26KM	4.6	S OF KERMADEC IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZN 23 43 28			21								
		ES	NE 47 20											
			H M S	EPICENTRE	DEPTH	MAG								
SEP 02			01 24 22.4	33.7S 178.8W	129KM	4.7	S OF KERMADEC IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z 01 28 42			21								
	SBA	EP	ZNE 01 32 28			45								
			H M S	EPICENTRE	DEPTH	MAG								
SEP 02			03 10 56.0	24.0S 175.9W	65KM	4.3	S OF TONGA							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z 03 13 29			11								
		ES	NE 15 08											
	RAR	EP	ZNE 03 14 16			15								
		E	Z 19 42											
		ET	ZNE 29 35											
SEP 02	AFI	EP	Z 05 17 55											
		ES	NE 19 42											
SEP 02	AFI	IP	ZNE 05 31 47 U											
		S	ZNE 32 13											
			H M S	EPICENTRE	DEPTH	MAG								
SEP 02			05 37 50.0	29.1S 179.0W	307KM	4.6	KERMADEC IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	IP	Z 05 38 30.8U			1								
	SUV	P	Z 05 40 26			11								
	AFI	IP	Z 05 41 22.5U			17	-0.90							5.4
		ES	NE 44 11											
	SBA	EP	ZNE 05 46 09			49								
		EPCP	ZNE 47 13											
			H M S	EPICENTRE	DEPTH	MAG								
SEP 02			06 56 57.8	34.1S 179.5W	100KM		S OF KERMADEC IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z 06 58 11			5								
SEP 02	AFI	EP	Z 16 05 38											

		ES	NE 06 12											
	SUV	EP	Z 16 05 32											
	AFI	ET	ZNE 16 08 47											
SEP 02	AFI	IP	ZNE 21 48 10.3U											
		IS	ZNE 31											
			H M S	EPICENTRE	DEPTH	MAG								
SEP 03			01 23 19.6	7.8S 147.1E	139KM	5.4	E NEW GUINEA							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZE 01 30 49		D	41								
		E(SS)	NE 40 08											
	SBA	EP	ZNE 01 34 24.5			71								
			H M S	EPICENTRE	DEPTH	MAG								
SEP 03			06 22 45.8	19.0S 178.0W	547KM	4.1	FIJI							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 06 23 56			3								
		ES	Z 25 01											
	AFI	IP	ZNE 06 24 29		U	8								
		ES	ZNE 25 55											
	SBA	EP	Z 06 31 58.5			59								
			H M S	EPICENTRE	DEPTH	MAG								
SEP 03			09 09 18.2	61.4S 55.7W	27KM	4.9	S SHETLAND IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 09 16 41			39								
SEP 03	AFI	IP	Z 12 05 50		U									
		IS	NE 06 10											
SEP 03	AFI	E(P)	ZE 19 31 58											
			H M S	EPICENTRE	DEPTH	MAG								
SEP 03			21 07 30.8	10.6S 79.8W	38KM	6.5	OFF PERU							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAR	P	ZNE 21 19 24			77			33	6				7.5
		EPP	Z 22 27											
		ES	NE 29 21											
		ESS	Z 35 25											
		ESSS	Z 37 32											
		E	Z 40 16											
	SBA	IP	ZNE 21 20 02			85	0.79							8.0
		ES	ZNE 30 28						25	56				
		ESS	ZNE 36 00											
		ELQ	ZNE 42 40											
		ELR	ZNE 46 20						215	20				
	AFI	EP	ZNE 21 20 27.3			89	0.02							7.4
		IPCP	ZE 37											
		IPP	ZNE 24 08											
		I(SCS)	E 30 36											
		IS	E 31 00											
		IS	ZN 24											
		I	E 36 24											
		ISS	ZN 37 08											
		ISSS	ZN 40 44											
		I	ZNE 44 08											
		IL	E 48 00											
		IL	ZNE 20											
			H M S	EPICENTRE	DEPTH	MAG								
SEP 04			00 41 07.1	31.1S 177.2W	33KM	4.6	KERMADEC IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z 00 41 38			2								
	SBA	EP	ZNE 00 49 19.5			47								

	H M S	EPICENTRE	DEPTH	MAG												
SEP 04	03 51 58.9	31.4S 179.4W	231KM	5.5	KERMADEC IS											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO P	Z	04	52	43		2									
	SUV P	Z	04	55	00		13									
	AFI IP	ZNE	03	55	59.8D		19									
	IS	ZNE		59	09											
	E	Z	04	03	33											
	RAR P	ZNE	03	56	18		20	-0.27	55	2						7.0
	ES	ZNE	04	00	08											
	SBA IP	ZNE	04	00	10		47	-1.28								5.2
	E*PP	ZNE		01	20											
	ES	ZNE		06	45											
	ESS	ZNE		10	16											
	ESSS	ZNE		12	14											
	H M S	EPICENTRE	DEPTH	MAG												
SEP 05	05 17 39.1	23.8S 179.7W	445KM	4.6	S OF FIJI											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI IP	Z	05	20	24.9D		12	-0.92								
	ES	NE		22	32											
SEP 05	AFI E(P)	Z	06	13	05											
SEP 05	AFI E(P)	Z	18	15	18											
	E(S)	NE		16	40											
SEP 05	AFI EP	Z	19	38	22											
	S	ZNE		39	03											
	ET	ZNE		42	08											
SEP 06	AFI IP	Z	04	19	45	U										
	S	ZNE		20	04											
	H M S	EPICENTRE	DEPTH	MAG												
SEP 06	04 44 55.9	6.5S 129.7E	139KM	5.2	BANDA SEA											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	04	56	17		74									
	H M S	EPICENTRE	DEPTH	MAG												
SEP 06	07 30 10.8	14.7N 93.6E	33KM	5.6	ANDAMAN IS											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	07	43	59		101									
SEP 06	AFI EP	NE	14	28	37											
	S	NE		29	03											
	H M S	EPICENTRE	DEPTH	MAG												
SEP 06	19 44 07.9	5.2S 151.7E	74KM	5.1	NEW BRITAIN											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	19	55	32.5		73									
	H M S	EPICENTRE	DEPTH	MAG												
SEP 06	20 48 43.8	15.0S 167.5E	142KM	4.1	NEW HEBRIDES											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	20	58	57.5		63	-0.81								6.2
	H M S	EPICENTRE	DEPTH	MAG												
SEP 07	07 12 36.6	2.7N 124.3E	274KM	5.8	CELEBES SEA											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI EIP	ZE	07	22	53		65	-0.87								5.9
	ES	ZNE		31	16											
	EL	ZNE		39	30											
	SBA IP	ZNE	07	24	35.8		84	0.97								7.9
	ES	ZNE		04	33											

	H M S	EPICENTRE	DEPTH	MAG												
SEP 07	07 59 22.6	30.4S 177.5W	36KM	4.6	KERMADEC IS											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	RAO IP	Z	07	59	41.8D		1									
	SBA EP	ZNE	08	08	01		48									
	H M S	EPICENTRE	DEPTH	MAG												
SEP 07	09 34 12.1	30.5S 177.6W	27KM	4.7	KERMADEC IS											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	RAO IP	Z	09	34	32.7U		1									
	SBA EP	ZNE	09	42	51		48									
	H M S	EPICENTRE	DEPTH	MAG												
SEP 07	11 08 13.2	31.3S 179.6E	430KM	5.1	KERMADEC IS											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	RAO EP	Z	11	09	18		3									
	ES	Z			57											
	SUV EP	Z	11	11	06		13									
	RAR EP	Z	11	12	21		21									
	ES	ZNE		16	54											
	SBA EP	ZNE	11	16	06.5		47									
	EPCP	Z		17	29.5											
	ESCP	Z		20	41											
	H M S	EPICENTRE	DEPTH	MAG												
SEP 08	03 36 13.4	6.9S 129.4E	107KM	5.6	BANDA SEA											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	03	49	36	V	74									
	H M S	EPICENTRE	DEPTH	MAG												
SEP 08	08 06 56.3	34.2S 71.4W	33KM	4.8	COAST OF CHILE											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	08	17	25		63									
	H M S	EPICENTRE	DEPTH	MAG												
SEP 08	08 59 59.3	23.4S 70.7W	33KM	5.5	COAST OF N CHILE											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA EP	ZNE	09	11	32		74									
SEP 08	AFI E(P)	Z	16	03	49											
	ES	ZNE		05	25											
	H M S	EPICENTRE	DEPTH	MAG												
SEP 08	22 37 39.5	12.2N 140.8E	27KM	5.3	W CAROLINE IS											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	AFI EP	Z	22	47	00		54									
	ES	ZNE		54	44											
	EL	NE	23	00	00											
	EL	ZE		02	28											
	SBA EP	ZNE	22	50	44.5		91									
	EPP	ZNE		54	30.5											
SEP 09	AFI IP	Z	02	59	46.6D											
	S	ZNE	03	00	06											
	H M S	EPICENTRE	DEPTH	MAG												
SEP 09	09 58 34.0	21.1S 176.7W	118KM	4.1	FIJI											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SUV EP	Z	10	00	10		5									
	AFI EP	Z	10	00	45		9									
	ES	NE		02	10											
	H M S	EPICENTRE	DEPTH	MAG												
SEP 09	10 06 44.1	27.7S 63.1W	578KM	5.8	ARGENTINA											
			H	M	S	DIR	DIS	LG$_m$A/T	AZ	TZ	AN	TN	AE	TE	MAG	
	SBA IP	ZNE	10	17	04	D	71	0.32								6.9

E-PP ZNE 19 02
ES ZNE 25 34
ESS ZNE 30 36
ESSS ZNE 34 00
RAR EP Z 10 20 29 86
ES ZNE 27 59
ESCS E 29 16
E(PP) E 32 55
AFI E-PPCP Z 10 21 36 100
EPP Z 23 43
ISKS ZNE 29 13
I-SP ZNE 31 48
EPS N 33 00
E ZNE 36 00
E-SSS ZNE 40 48
E ZNE 47 24
E ZNE 52 24

H M S EPICENTRE DEPTH MAG
SEP 09 14 43 57,7 12,3N 140,7E 33KM 5,4 W CAROLINE IS
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
AFI ES ZNE 15 01 00 54
ELQ NE 06 30
ELR ZE 08 06
SBA EP ZNE 14 57 03 91

H M S EPICENTRE DEPTH MAG
SEP 09 16 52 01,3 54,8S 136,0W 33KM 5,4 S PACIFIC CORDILLERA
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 16 58 14 30
ES ZNE 17 03 28
ESKS ZNE 05 00
ELR ZNE 06 20
RAR EP Z 16 59 16 38
E(PP) ZNE 17 00 43
ES ZE 05 19
AFI EP Z 17 00 36 49
ES ZNE 08 00
ESS ZE 11 24
ISSS NE 12 18
IL ZN 14 00

SEP 09 AFI EP Z 21 48 43
S ZNE 49 02

SEP 09 SBA EP ZNE 21 50 48
ES ZNE 55 00

SEP 09 AFI E(S) ZN 22 03 52
EL E 08 54
EL ZN 11 30

SEP 10 SBA EP ZNE 02 02 58 0.04
ES ZNE 06 44

SEP 10 AFI E(S) NE 21 06 48

SEP 11 AFI E(P) Z 00 52 56
(S) NE 54 10

SEP 11 AFI E(S) ZNE 01 26 12
EL NE 29 18
EL Z 30 06

H M S EPICENTRE DEPTH MAG
SEP 11 01 22 43,7 21,4S 173,8E 32KM 4,8 NEW HEBRIDES
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 01 32 25 57

H M S EPICENTRE DEPTH MAG
SEP 11 04 37 16,4 21,4S 169,7E 11KM 5,0 LOYALTY IS
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
SUV EP Z 04 39 33 9
AFI EP Z 04 41 42 19 -1,04 5,1
E(S) ZNE 45 18
EL ZE 47 00
SBA EP ZNE 04 47 02 57

H M S EPICENTRE DEPTH MAG
SEP 11 06 52 11,5 21,4S 174,0E 15KM 4,8 NEW HEBRIDES
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
AFI EP Z 06 55 50 15
ES NE 58 44
EL Z 59 42
SBA EP ZNE 07 01 57 57
ES ZNE 10 00
EL ZNE 19 44

H M S EPICENTRE DEPTH MAG
SEP 11 09 53 54,2 32,8S 178,5W 35KM 4,4 S OF KERMADEC IS
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
RAO EP Z 09 54 47 4

H M S EPICENTRE DEPTH MAG
SEP 11 10 14 30,4 21,3S 173,7E 34KM 4,8 NEW HEBRIDES
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
AFI EP ZNE 10 18 00 16
E(S) NE 21 00
EL Z 22 00
SBA EP ZNE 10 24 10 57

H M S EPICENTRE DEPTH MAG
SEP 11 21 21 02,8 17,6S 173,1W 33KM 4,2 TONGA
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
AFI EP Z 21 21 53 4
ES ZNE 22 35
ET ZNE 25 10

H M S EPICENTRE DEPTH MAG
SEP 12 00 23 27,7 22,8S 10,5W 33KM 4,9 S ATLANTIC RIDGE
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 00 35 36 80

H M S EPICENTRE DEPTH MAG
SEP 12 21 49 47,6 5,5S 151,7E 50KM 5,2 NEW BRITAIN
H M S DIR DIS LG-A/T AZ TZ AN TN AE TE MAG
AFI EP Z 21 57 04 37 -1,11 5,8
ES NE 22 02 36
E Z 48
EL NE 05 24
EL ZE 07 00
SBA EP ZNE 22 01 13,5 73
EPP ZNE 04 16
ES ZNE 10 36
ESS ZNE 15 11
ELQ ZNE 19 02
ELR ZNE 23 24

			H M S	EPICENTRE	DEPTH	MAG	
SEP 13			18 41 15,4	52,7N 172,5E	34KM	5,7	ALEUTIAN IS
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	ES		ZN 19 00 42		68	
		EL		ZN 12 00			
		EL		E 13 12			
	SBA	EPKP		ZNE 19 00 23		130	
		EPKS		ZNE 03 44			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 13			19 57 47,9	56,0S 27,4W	148KM	5,3	S SANDWICH IS
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA	IP		ZNE 20 05 58,5U		46	0,52 7,2
		ES		ZNE 12 38			
		EL		ZNE 19 30			
SEP 13	AFI	EP		Z 21 43 26			
		S		ZNE 44 13			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 14			00 41 40,7	32,9S 178,4W	40KM		S OF KERMADEC IS
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO	EP		Z 00 42 37		4	

			H M S	EPICENTRE	DEPTH	MAG	
SEP 14			15 35 17,3	15,4S 167,5E	142KM	4,9	NEW HEBRIDES
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP		Z 15 37 51		11	
	AFI	IP		ZNE 15 39 43	U	20	=0,85 5,4
		E		ZNE 40 12			
		ES		ZNE 43 24			
	RAR	EP		Z 15 41 28		32	
	SBA	EP		ZNE 15 45 28,5		62	

			H M S	EPICENTRE	DEPTH	MAG	
SEP 15			00 28 39,8	35,6N 140,4E	59KM	5,2	NEAR JAPAN
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	ES		ZNE 00 48 12		67	
		ESS		ZNE 56 00			
		EL		ZNE 59 00			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 15			23 40 06,0	28,4S 178,2W	244KM	4,0	KERMADEC IS
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO	IP		Z 23 40 39,3U		1	
		ES		Z 41 03			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 16			03 40 55,3	2,0S 128,9E	50KM	5,4	CERAM SEA
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	ESSS		NE 04 05 30		60	
		ELR		Z 08 48			
	SBA	EP		ZNE 03 52 53,5		78	

			H M S	EPICENTRE	DEPTH	MAG	
SEP 16			08 31 58,4	52,0N 176,4W	65KM	5,4	ALEUTIAN IS
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA	EPKP		Z 08 51 01		130	
		EPKS		ZNE 54 18,5			
SEP 16	AFI	IP		Z 11 14 18,6U			
		S		ZNE 50			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 16			19 12 13,6	10,1S 161,2E	31KM	5,3	SOLOMON IS
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SBA	EP		ZNE 19 23 09,5		68	
		EPCP		ZNE 25			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 16			23 31 27,3	31,5S 179,8E	377KM	4,0	KERMADEC IS
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO	EP		Z 23 32 29		3	
	AFI	EP		ZNE 23 35 24		19	=0,50 5,8
		ES		NE 38 37			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 17			01 21 52,4	18,6S 175,0W	200KM	4,1	TONGA
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	AFI	EP		Z 01 23 08		6	
		S		ZNE 24 05			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 18			15 33 06,5	5,9S 146,6E	39KM	5,5	E NEW GUINEA
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP		Z 15 39 44		33	
	AFI	EP		Z 15 40 55		42	
		ES		ZNE 47 08			
		ESS		ZNE 50 18			
		EL		ZE 53 18			
	SBA	EP		ZNE 15 44 32		73	
		ES		ZNE 54 00			
		ESS		ZNE 58 20			
		ESSS		ZNE 16 02 02			
		ELQ		ZNE 04 10			
		ELR		ZNE 08 14			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 18			19 13 52,5	20,7S 178,4W	562KM	4,0	FIJI
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP		Z 19 15 22		4	
	RAO	EP		Z 19 15 58		9	
		ES		Z 17 41			
	AFI	EP		ZNE 19 16 03		9	
		S		ZNE 17 45			

			H M S	EPICENTRE	DEPTH	MAG	
SEP 19			00 45 31,1	24,7S 177,3W	139KM	4,7	S OF FIJI
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	RAO	EP		Z 00 46 38		5	
	SUV	EP		Z 00 47 15		8	
	AFI	EP		ZNE 00 48 09		12	
		ES		ZNE 50 09			
	RAR	ET		ZNE 01 04 49		17	
	SBA	EP		ZNE 00 54 41,5		54	=0,20 6,8

			H M S	EPICENTRE	DEPTH	MAG	
SEP 19			10 56 08,6	43,0N 145,2E	84KM	5,9	JAPAN
				H M S	DIR	DIS	LG=A/T AZ TZ AN TN AE TE MAG
	SUV	EP		Z 11 06 54		68	
	AFI	IP		Z 11 07 07	D	69	
		ES		ZNE 16 40			
		E(SSS)		ZNE 24 00			
		EL		ZNE 27 12			
		ET		ZNE 12 02 03			
	SBA	EPKP		ZNE 11 14 53,5D		121	
		EPKP		ZNE 15 17			
		EPP		ZNE 16 26			
		ES		ZN 24 00			

				H M S	EPICENTRE	DEPTH	MAG							
		ESP	ZNE	26 24										
		ELQ	ZNE	46 30										
		ELR	ZNE	52 39										
SEP 19				12 45 35,3	57,8S 23,4W	33KM	5,7	S SANDWICH IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	IP	ZNE	12 53 45,6	D	44	0,34							7,2
		ES	ZNE	59 48										
		ELQ	ZNE	13 03 50										
		ELR	ZNE	08 44										
SEP 19	CBZ	EP	Z	18 22 47										
				H M S	EPICENTRE	DEPTH	MAG							
SEP 19				19 01 47,5	1,6S 100,5E	83KM	5,0	S SUMATRA						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	19 14 09,2		84								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 19				19 28 45,2	36,3S 52,2E	33KM	5,4	ATLANTIC-INDIAN RISE						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	19 38 49		60								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				09 39 15,2	49,8S 163,4E	30KM	6,1	AUCKLAND IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z	09 40 16		5								
		ES	Z	41 01										
	SBA	EP	ZNE	09 45 07		28	0,62							7,2
		EPP	ZNE	46 09										
		ES	ZNE	49 24										
		ESS	ZNE	50 22,5										
		ELQ	ZNE	51 03										
		ELR	ZNE	52 02										
	SJV	EP	Z	09 45 48		34								
	AFI	EP	Z	09 46 56		41								
		EPP	ZN	48 24										
		ES	N	52 44										
		ES	ZN	53 16										
		EL	ZN	56 00										
		EL	ZN	59 00										
	RAR	EP	ZNE	09 47 03		41								
		E(S)	NE	53 12										
		ELQ	ZNE	56 16										
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				10 30 53,4	49,8S 163,4E	19KM	5,8	AUCKLAND IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z	10 31 56		5								
		ES	Z	32 39										
	SBA	EP	ZNE	10 36 47,5		28								
		EPP	ZNE	37 41										
		ES	ZNE	41 25										
		ESS	ZNE	42 24										
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				10 37 20,3	20,8S 169,8E	129KM	5,9	NEW HEBRIDES						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SJV	EP	Z	10 39 15		9								
	AFI	EP	ZNE	10 41 30		19	-0,50							5,7
	SBA	EP	ZNE	10 46 54,6		57	0,67							7,7
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				11 12 35,7	49,8S 163,5E	33KM		AUCKLAND IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z	11 13 37		5								

				H M S	EPICENTRE	DEPTH	MAG							
		ES	Z	14 24										
	SBA	EP	ZNE	11 18 27		28								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				12 06 52,7	49,8S 163,8E	33KM	5,2	AUCKLAND IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z	12 07 54		4								
		ES	Z	08 39										
	SBA	EP	ZNE	12 12 44,5		28								
		ES	ZNE	17 24										
		ELQ	ZNE	19 14										
		ELR	ZNE	55										
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				13 46 16,7	49,7S 164,1E	33KM		AUCKLAND IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z	13 47 19		4								
		ES	Z	48 02										
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				14 04 19,3	49,7S 164,0E	33KM		AUCKLAND IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z	14 05 21		4								
		ES	Z	06 11										
	SBA	EP	ZNE	14 10 12		28								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				14 58 15,4	49,7S 163,6E	33KM	5,4	AUCKLAND IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z	14 49 23		5								
		ES	Z	50 07										
	SBA	EP	ZNE	15 04 07		28								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				18 38 25,2	28,6S 175,9W	39KM	5,0	KERMADEC IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	IP	Z	18 38 59,0	U	2								
	AFI	EP	Z	18 41 50		15								
		ES	ZNE	44 19										
		ET	ZNE	54 46										
	SBA	EP	ZNE	18 47 21		50								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				19 46 42,8	34,1S 14,6W	33KM	5,2	TRISTAN DA CUNHA						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	19 57 44		68								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				20 16 57,5	49,7S 163,9E	33KM		AUCKLAND IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	CBZ	EP	Z	20 17 58		4								
		ES	Z	18 47										
	SBA	EP	ZNE	20 22 49,5		28								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				21 40 40,1	57,3S 24,1W	33KM		S SANDWICH IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	21 48 54		45								
				H M S	EPICENTRE	DEPTH	MAG							
SEP 20				23 51 22,3	59,2S 148,6E	33KM		W OF MACQUARIE IS						
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	23 55 50		20								
		ES	ZNE	00 00 57										
SEP 21	AFI	EP	ZNE	19 33 46										
		S	ZNE	34 06										

				H M S	EPICENTRE	DEPTH	MAG	
		T	ZNE	35 35				
				H M S	EPICENTRE	DEPTH	MAG	
SEP 21				20 40 32,1	57,7S 23,6W	33KM	5,2	S SANDWICH IS
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SBA	EP	ZNE	20 48 43,5		45		
SEP 22	AFI	EP	Z	07 57 11				
		S	N	58 09				
		S	E	14				
				H M S	EPICENTRE	DEPTH	MAG	
SEP 22				10 17 59,5	44,5N 149,4E	60KM	5,6	KURILE IS
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	Z	10 29 00		68		
		ES	ZNE	38 00				
		E(L)	NE	46 00				
		EL	ZNE	48 18				
	RAR	ES	N	10 40 32		80		
		EL	ZNE	54 11				
	SBA	EPKP	ZNE	10 36 50,5		123		
		ESP	ZNE	48 28				
		ESSS	ZN	59 30				
		EL	ZNE	11 14 56				
SEP 22	AFI	EP	ZNE	11 41 21				
		ES	ZNE	43 22				
	SUV	EP	Z	11 40 28				
				H M S	EPICENTRE	DEPTH	MAG	
SEP 22				20 48 26,7	4,6S 153,0E	76KM	5,0	NEW IRELAND
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SBA	EP	ZNE	20 59 55		74		
				H M S	EPICENTRE	DEPTH	MAG	
SEP 23				03 22 59,7	17,7S 178,7W	567KM	5,0	FIJI
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SUV	EP	Z	03 24 16		3		
	AFI	EP	ZNE	03 24 52		8	=0,56	
		S	ZNE	26 21				
				H M S	EPICENTRE	DEPTH	MAG	
SEP 23				06 56 43,6	21,8S 179,7W	595KM	5,4	FIJI
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SUV	EP	Z	06 58 10		4		
	RAO	EP	Z	06 58 35		8		
	AFI	EP	ZNE	06 59 08		11	=0,50	
		ES	ZNE	07 01 02				
	RAR	EP	ZNE	07 00 22		19	=0,08	6,4
		E	Z	01 07				
		E	N	11 21				
	SBA	EP	ZNE	07 05 31,4		56		
				H M S	EPICENTRE	DEPTH	MAG	
SEP 23				07 02 03,3	49,7S 164,0E	15KM	5,7	AUCKLAND IS
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	CBZ	EP	Z	07 03 08		4		
		ES	Z	54				
	SBA	EP	ZNE	07 07 59		28		
		ES	ZNE	12 52				
		ELQ	ZNE	14 18				
		ELR	ZNE	17 00				
	AFI	EP	Z	07 06 51		41		

				H M S	EPICENTRE	DEPTH	MAG	
SEP 23				07 39 47,8	22,1S 179,6W	600KM	4,6	S OF FIJI
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SUV	EP	Z	07 41 15		4		
	RAO	EP	Z	07 41 40		7		
		ES	Z	43 12				
	AFI	EP	Z	07 42 13		11		
		ES	ZNE	44 08				
	RAR	EP	ZNE	07 43 26		18		
	SBA	EP	ZNE	07 48 35,8		56	=0,41	5,9
SEP 23	AFI	EP	Z	09 50 50				
		S	NE	51 46				
				H M S	EPICENTRE	DEPTH	MAG	
SEP 23				21 58 06,1	40,4S 16,7W	33KM	4,8	S ATLANTIC RIDGE
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SBA	EP	Z	22 08 25		62		
SEP 23	SBA	EP	ZNE	22 44 46,5				
		ES	ZNE	45 27,5				
				H M S	EPICENTRE	DEPTH	MAG	
SEP 23				22 43 16,6	29,6S 179,3W	347KM	4,5	KERMADEC IS
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	RAO	EP	Z	22 44 04		1		
	AFI	EP	ZNE	22 46 54		17		
		ES	ZNE	49 49				
		ET	ZNE	23 00 58				
	SBA	IP	ZNE	22 51 30,0		49	=0,33	6,0
		ES	ZNE	56 08,5				
				H M S	EPICENTRE	DEPTH	MAG	
SEP 24				00 57 09,7	4,6N 128,6E	33KM	5,3	N OF HALMAHERA
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	SBA	EP	ZNE	01 09 44		85		
				H M S	EPICENTRE	DEPTH	MAG	
SEP 24				01 10 15,3	29,6S 177,8W	85KM	4,6	KERMADEC IS
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	RAO	IP	Z	01 10 29,0D		0		
	AFI	EP	Z	01 13 55		17		
		ES	NE	16 49				
		ET	ZNE	28 55				
	SBA	EP	ZNE	01 18 53		49		
				H M S	EPICENTRE	DEPTH	MAG	
SEP 24				06 10 16,2	2,8N 128,5E	226KM	5,4	HALMAHERA
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	ZNE	06 20 13		61		
	SBA	EP	ZNE	06 22 19		83		
				H M S	EPICENTRE	DEPTH	MAG	
SEP 24				07 48 36,4	6,2S 146,9E	84KM	5,1	E NEW GUINEA
				H M S	DIR	DIS	LG=A/T	AZ TZ AN TN AE TE MAG
	AFI	EP	ZNE	07 56 15		41		
		E(SS)	ZNE	08 06 00				
		EL	Z	08 30				
	RAR	EP	Z	07 57 51		54		
	SBA	EP	ZNE	07 59 58,4		72		
SEP 24	AFI	IP	Z	12 24 29				
		S	ZNE	48				
SEP 24	AFI	IP	Z	21 11 17,9U				
		S	ZNE	31				

SEP 25	AFI	IP	Z	00	52	32											
		S	ZNE			54											
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 25	04	38	26,2	15,1S		173,4W			63KM	5,0	TONGA						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	04	38	49			UNE	2								
		S	ZNE		39	04												
	SUV	EP	Z	04	40	34				8								
	RAR	EP	ZNE	04	41	37				14								
	SBA	EP	ZNE	04	48	54				64								
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 25	06	18	26,1	20,3S		177,7W			462KM	4,2	FIJI						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	Z	06	20	29			U	9								
		S	ZNE		22	02												
	RAO	EP	Z	06	20	32				9								
		ES	Z		22	14												
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 25	19	35	04,0	17,8S		178,2W			426KM	4,4	FIJI						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	19	35	55				3								
	AFI	EP	Z	19	36	53				7								
		S	ZNE		38	16												
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 26	11	11	23,7	33,6S		70,5W			84KM	5,8	CHILE-ARGENTINA BORDER						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	11	21	49				64								
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 26	16	11	23,9	30,0S		71,5W			55KM		NEAR CHILE						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	16	22	12				67	0,10							7,2
		ES	ZNE		31	04												
		ESS	ZNE		35	34												
		ESSS	ZNE		38	39												
		ELR	ZNE		43	25												
		EPKPPKP	ZNE		50	42												
	RAR	ES	E	16	33	14				78								
	AFI	EP	Z	16	24	30				92								
		ES	NE		35	00												
		ES	Z		36	40												
		ESS	ZE		41	48												
		E(L)	ZNE		48	54												
		EL	ZNE		53	18												
SEP 26	SBA	EP	ZNE	16	46	03,5					=0,50							
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 26	17	05	55,0	7,1S		155,8E			94KM	5,7	SOLOMON IS						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	17	11	07				25								
	AFI	IP	Z	17	12	19			U	33	=0,10							6,8
		E	NE		13	56												
	RAO	EP	Z	17	12	23				33								
	RAR	EP	Z	17	14	04				45								
	SBA	EP	ZNE	17	17	05				71	=0,34							6,6
SEP 27	AFI	P	ZNE	00	38	00												
		S	ZNE			35												

			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 27	02	13	26,3	19,8S		177,9W			573KM	4,1	FIJI						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	02	15	27				8								
		S	ZNE		17	02												
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 27	06	02	39,5	7,3S		81,3W			37KM	5,1	OFF N PERU						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	06	15	24,5				87								
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 27	09	32	38,8	11,4S		166,3E			92KM	4,5	SANTA CRUZ IS						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	09	43	19,5				66	=0,33							6,6
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 28	00	26	51,5	16,0S		175,2W			283KM	4,5	TONGA						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	Z	00	27	56			D	4								
		S	ZNE		28	43												
	RAO	ES	Z	00	30	32				13								
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 28	04	56	56,3	6,6S		153,4E			44KM	5,9	NEW BRITAIN						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	05	02	46				27								
	AFI	EP	ZNE	05	03	44				35	=0,62							6,3
		E	Z		06	19												
		ES	ZNE		09	16												
		ESS	ZNE		11	36												
		EL	Z		13	20												
	RAR	EP	ZE	05	05	29				48								
		ES	ZNE		12	25												
	SBA	EP	ZNE	05	08	14,5				72	0,43							7,5
		ES	ZNE		17	34												
		ESS	ZNE		22	15												
		ESSS	ZNE		25	38												
		ELQ	ZNE		27	52												
		ELR	ZNE		30	20												
SEP 28	AFI	IP	Z	14	58	27												
		S	ZNE			46												
SEP 28	AFI	EP	Z	15	39	01												
		S	ZNE			20												
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 28	13	44	55,7	59,5N		147,1W			28KM	5,6	GULF OF ALASKA						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	NE	16	06	28				76								
		E(SSS)	NE		16	12												
		EL	Z		19	18												
SEP 28	AFI	EP	ZNE	21	40	16												
		S	ZNE			40												
SEP 29	AFI	E(P)	Z	05	25	20												
		S	ZNE		26	38												
			H	M	S	EPICENTRE			DEPTH	MAG							
SEP 29	07	19	34,8	19,8S		174,0W			33KM	4,6	TONGA						
						H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	07	21	04				6								
		S	ZNE		22	10												
		T	ZNE		27	12												

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       RAR  EP      ZNE 07 22 30        13
       SBA  EP      ZNE 07 29 32.2      59

            H  M  S      EPICENTRE    DEPTH  MAG
SEP 29  17 29 40.1   31.8S  57.3E   33KM  5.0  ATLANTIC-INDIAN RISE
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       SBA  EP      ZNE 17 40 06.5      63

            H  M  S      EPICENTRE    DEPTH  MAG
SEP 29  22 21 14.7   49.9S 163.5E   33KM  5.1  AUCKLAND IS
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       CBZ  EP      Z   22 22 19         4
            ES      Z      23 07
       SBA  EP      ZNE 22 27 07        28

            H  M  S      EPICENTRE    DEPTH  MAG
SEP 30  07 57 19.9   28.9N 129.9E   32KM  5.5  RYUKYU IS
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       AFI  ES      NE  08 18 00        71
            E(L)    N      26 18
            EL      ZE     30 00

SEP 30 SBA  EP      ZNE 16 17 02          -0.50

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 01  02 36 23.7   22.7S 173.2E   33KM  4.4  LOYALTY IS
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       AFI  ES      N   02 43 24        17
            EL      ZNE    44 30
       SBA  EP      ZNE 02 45 57        55
            E(P)    ZNE    46 07.5         -0.11                          7.0

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 01  11 56 02.8   15.1S 174.1W   90KM  4.6  TONGA
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       AFI  IP      ZNE 11 56 39.1       3
            S       ZNE    57 00
       RAR  EP      Z   11 59 29        15
            ES      ZNE 12 02 00
       SBA  EP      ZNE 12 06 26.0      63

OCT 01 SBA  EP      ZNE 18 00 49
            ES      ZNE    04 49

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 02  00 12 52.8   21.0S 178.8W  604KM  5.2  FIJI
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       SJV  EP      Z   00 14 13         4
       AFI  IP      ZNE 00 15 05.2      10
            S       ZNE    16 50
       RAR  EP      ZNE 00 16 26        18
       SBA  IP      ZNE 00 21 48        57  -0.11                          6.2
            EPCP    ZNE    22 16
            E-PP    ZNE    23 43.5
            ESCP    ZNE    25 36.8
            ES      ZNE    29 06                      12  5          6.8
            ESCS    ZNE    30 40
            E-SS    ZNE    32 32
            ESS     N      33 34
            E-SSCS  E      34 44

OCT 02 SBA  EP      ZNE 08 35 32.8
            ES      ZNE        37.5
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            H  M  S      EPICENTRE    DEPTH  MAG
OCT 02  10 28 08.4   56.4S  27.4W  153KM  5.3  S SANDWICH IS
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       SBA  EP      ZNE 10 34 15.5      46

OCT 02 SBA  EP      ZNE 02 55 16.5

OCT 02 AFI  P       ZNE 03 24 18
            S       ZNE        39

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 02  11 28 14.4   33.0S 178.6W   33KM  4.4  S KERMADEC IS
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       SBA  EP      ZNE 11 36 35        45

OCT 02 SBA  EP      ZNE 14 34 53.5
            ES      ZNE        58.5
       Q    SBA

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 02  14 54 08.4   6.7S 153.4E   27KM  5.3  NEW BRITAIN
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       SBA  EP      ZNE 15 05 29        71

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 02  17 24 13.2   6.6S 105.2E   33KM  5.5  SUNDA STRAIT
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       SBA  EP      ZNE 17 36 09        78

OCT 02 SBA  EP      ZNE 19 09 37

OCT 03 AFI  P       ZNE 00 00 25
            S       ZNE        39
            T       ZNE     02 11

OCT 03 SBA  EP      ZNE 03 32 57

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 03  04 54 47.3   1.0S 149.5E   17KM  4.6  NEW IRELAND
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       SBA  EP      ZNE 05 06 43        77

OCT 03 SBA  EP      ZNE 12 25 05.5
            ES      ZNE        14

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 03  14 46 46.7   21.9S 179.5W  553KM  4.7  FIJI
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       SJV  EP      Z   14 48 16         4
       AFI  EP      Z   14 49 14        11
            ES      NE     51 10

            H  M  S      EPICENTRE    DEPTH  MAG
OCT 03  18 16 03.2   10.9N  85.9W   21KM  5.8  COSTA RICA
                          H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
       RAR  ES      ZNE 18 38 13        79
            EL      ZNE    52 15
       AFI  E       ZNE 18 39 32        89
            E       E      41 24
            ESS     NE     45 36
            ESSS    NE     49 12
            ELQ     NE     52 24
            ELR     ZNE    56 12                                  743 40
       SBA  EPP     ZNE 18 34 26       104
            ELR     ZNE    05 00

OCT 03 AFI  P       Z   18 58 24
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                S       ZNE        43

OCT 04  AFI  IP         ZNE 01 20 07          0,09
             E          ZNE        36
             ES         ZE      22 32
             ES         N          32

OCT 04  AFI  EP         Z   01 26 39
             ES         NE      29 11

OCT 04  SBA  EP         ZNE 04 58 05,5
             ES         ZNE        14,0

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 04   06 18 33,2     3,3S 139,7E  52KM   5,2  W NEW GUINEA
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 06 30 15,5      76

OCT 04  SBA  EP         ZNE 09 16 50,5
             ES         ZNE        98

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 04   10 24 41,1     4,8S 150,7E  92KM        NEW BRITAIN
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 10 36 05        73

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 04   17 21 20,7     5,7S 153,9E  52KM   5,5  NEW IRELAND
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SUV  EP        Z   17 27 29        27
         AFI  IP        ZE  17 28 06  U     35
              EPP       ZNE     29 24
              IS        ZNE     33 32
              ILQ       ZNE     36 08
              ILR       ZNE     37 42
         RAR  EP        ZNE 17 29 50        47          144  3          8,1
              EPP       ZE      31 42
              ES        ZNE     36 47
              ELQ       NE      40 32
              ELR       ZNE     44 16
         CBZ  EP        Z   17 30 07        48
         SBA  IP        ZNE 17 32 43,5U     72  1,03    68 10          7,8
              EPP       ZNE     35 24
              ES        ZNE     42 10                   118  5          8,2
              ESS       ZNE     46 50
              ELQ       ZNE     52 36
              ELR       ZNE     55 30                   121 10

OCT 04  AFI  EP         Z   20 05 48
             ES         ZNE     06 18

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 05   04 07 41,9     5,8S 154,0E  75KM   4,6  SOLOMON IS
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         AFI  ES        ZNE 04 20 00        35
              EL        ZNE     24 00
         SBA  EP        ZNE 04 19 02,5      72
              EPCP      Z          11

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 05   09 41 31,4     14,5S  75,4W 100KM  5,6  PERU
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 09 53 40        82
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          H  M  S       EPICENTRE    DEPTH  MAG
OCT 05   12 35 38,8     5,2S 154,1E 100KM   5,2  SOLOMON IS
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 12 44 59        73

OCT 05  AFI  EP         ZNE 15 56 06
             S          ZNE        25

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 05   17 39 54,6     8,5S 107,1E  18KM   4,6  JAVA
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 17 51 40,5      76

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 05   18 27 38,3     22,0S 177,0W 214KM   4,9  S OF FIJI
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SUV  EP        Z   18 29 04         6
         AFI  EP        Z   18 29 41         9
              EIS       ZNE     31 15
         SBA  EP        ZNE 18 37 01,5      56

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 05   19 48 30,0     6,2S 154,9E  45KM   4,8  SOLOMON IS
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 19 59 50,5      72

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 06   03 59 51,0     10,3S  66,4E  33KM   5,1  MID INDIAN RISE
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 04 11 51        82

OCT 06  SBA  EP         ZNE 08 02 55

OCT 06  AFI  IP         Z   11 13 56
             S          ZNE    14 16

OCT 06  SBA  EP         ZNE 12 26 02,5
             ES         ZNE        09,5

OCT 06  SBA  EP         ZNE 14 19 54,5
             ES         ZNE        58,5

OCT 06  SBA  EP         ZNE 14 30 47
             ES         ZNE        53

OCT 06  AFI  EP         ZNE 14 45 04
             ES         ZNE    46 03

OCT 06  AFI  EP         ZNE 14 54 20
             S          ZNE        40

OCT 06  SBA  EP         ZNE 14 58 42,5
             ES         ZNE        48,5

OCT 06  SBA  EP         ZNE 16 26 03
             ES         ZNE        09

OCT 06  AFI  IP         Z   20 17 49  U
             S          ZNE    18 04

          H  M  S       EPICENTRE    DEPTH  MAG
OCT 07   01 14 04,1     29,6S  71,1W  42KM   5,3  CHILE
                          H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
         SBA  EP        ZNE 01 24 57        68
              EPCP      Z          25 39,5
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			H M S	EPICENTRE	DEPTH	MAG									
OCT 07			02 38 44,1	16,7S 172,9W	33KM	4,4	SAMOA								
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE	02 39 24			3							
		ES		ZNE	55										
		ET		ZNE	42 56										
			H M S	EPICENTRE	DEPTH	MAG									
OCT 07			08 28 01,2	49,2N 156,3E	33KM	5,3	KURILE IS								
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPKP		ZNE	08 47 02		127								
			H M S	EPICENTRE	DEPTH	MAG									
OCT 07			10 33 08,2	17,3S 178,9W	563KM	4,9	FIJI								
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	IP		Z	10 34 24	D	3								
	AFI	IP		Z	10 34 58	D	8	0,43							
		ES		NE	36 30										
	SBA	EP		ZNE	10 42 30,5		61								
		E-PP		Z	44 22										
OCT 07	SBA	EP		ZNE	11 50 56,5										
OCT 07	AFI	EP		Z	14 44 12										
		ES		ZNE	46 25										
			H M S	EPICENTRE	DEPTH	MAG									
OCT 07			19 52 07,4	5,6S 153,7E	92KM	5,3	NEW IRELAND								
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	20 03 27	D	73								
			H M S	EPICENTRE	DEPTH	MAG									
OCT 07			20 46 46,0	5,0S 153,9E	107KM	5,5	NEW IRELAND								
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	20 58 07		73								
OCT 07	AFI	E(P)		Z	21 13 38										
		E(S)		ZNE	14 25										
		E(T)		ZNE	17 20										
OCT 07	SBA	EP		ZNE	21 51 57										
OCT 08	SBA	EP		ZNE	00 43 57										
		ES		ZNE	44 02,5										
OCT 08	SBA	EP		ZNE	01 43 08,5										
		ES		ZNE	17										
OCT 08	SBA	EP		ZNE	03 30 46,5										
		ES		ZNE	54,5										
			H M S	EPICENTRE	DEPTH	MAG									
OCT 08			16 59 34,4	9,5S 148,8E	17KM	5,5	E NEW GUINEA								
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		Z	17 07 00		39								
		ES		Z	13 18										
		ESSS		NE	15 48										
		EL		ZE	17 06										
	SBA	EP		ZNE	17 10 42,5		69								
		ESS		Z	23 40										
		ELR		ZNE	32 00										
			H M S	EPICENTRE	DEPTH	MAG									
OCT 08			18 08 18,1	5,6S 154,0E	70KM	5,1	SOLOMON IS								
					H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		Z	18 15 02		35								

		ES	Z	20 30											
		ESSS	N	22 54											
		ELQ	ZE	23 06											
		ELR	ZE	24 42											
	SBA	IP	ZNE	18 19 40	U	73	0,23								7,2
		ES	ZNE	29 10											
		ESS	ZNE	33 42											
		ESSS	ZNE	37 27											
		ELQ	ZNE	39 32											
		ELR	ZNE	42 30											
	H M S	EPICENTRE	DEPTH	MAG											
OCT 09	04 04 55,9	1,5N 127,1E	127KM	5,3	HALMAHERA										
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP		ZNE 04 17 03			82									
	H M S	EPICENTRE	DEPTH	MAG											
OCT 09	04 55 10,3	60,9S 36,1W	33KM	5,2	SCOTIA SEA										
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EP		ZNE 05 02 51			41									
	H M S	EPICENTRE	DEPTH	MAG											
OCT 09	13 27 56,7	5,7S 154,0E	41KM	4,9	SOLOMON IS										
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI EP		Z 13 34 40			35									
	ES		ZNE 40 20												
	E(SSS)		ZNE 42 36												
	ELR		ZE 44 30												
	SBA EP		ZN 13 39 21			72									
	ES		ZNE 48 45												
	ESS		ZNE 53 32												
	ESSS		ZN 57 16												
	ELQ		NE 59 20												
	ELR		ZNE 14 02 29												
	H M S	EPICENTRE	DEPTH	MAG											
OCT 09	14 10 57,4	54,1N 155,1E	393KM	5,2	KAMCHATKA										
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA EPKP		Z 14 29 24			132									
	EPP		ZNE 32 12												
	H M S	EPICENTRE	DEPTH	MAG											
OCT 09	17 21 49,5	21,1S 179,3W	654KM		FIJI										
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SUV IP		Z 17 23 06	U	4										
	RAO P		Z 17 23 48		8										
	ES		Z 25 28												
	ESCS		Z 35 19												
	AFI IP		ZNE 17 24 05	DNE	10										
	IS		ZNE 25 52												
	I		ZNE 27 13												
	IPCP		ZNE 29 28												
	ISCS		ZNE 35 28												
	I-SSCS		ZNE 40 00												
	RAR IP		ZNE 17 25 23	U	18	0,79	114	11			111	11	7,1		
	E		ZE 26 11												
	IS		ZNE 28 15						292	15			7,0		
	CBZ P		Z 17 27 33	D	33										
	EPCP		Z 29 58												
	ESCP		Z 32 43												
	SBA IP		ZNE 17 30 39,0	USW	57		222	10	81	10	25	10	7,1		
	EPCP		ZNE 31 24												
	E-PP		ZNE 32 34				116	8	75	12	33	8			
	EPCS		E 33 24												
	E-SP		ZN 46												
	ESCP		ZN 34 22												
	IS		ZNE 37 54	E			75	10	34	10	352	10	7,3		

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           ESCS     ZNE     39 12
           E-SS     NE      41 24
           ESS      ZNE        44
           E-SSCS   E       43 35
           E(SSS)   ZNE     44 47
           EPKPPKP  ZNE     59 53

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 09  18 33 08.2    21,3S 179,3W  619KM  5,1  FIJI
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        SUV  IP        Z    18 34 35          4
        RAO  EP        Z    18 35 09          8
             ES        Z       36 46
        AFI  IP        Z    18 35 27  D      10  0,00
             ES        ZNE     37 16
        RAR  EP        ZNE  18 36 46         18
        SBA  IP        ZNE  18 42 01,0       57 -0,53                    5,8
             E-PP      ZNE     44 02
             ESCP      ZNE     45 47
             ES        NE      49 17

OCT 10  AFI  EP        ZNE  02 47 36
             ES        ZNE     48 09
             ET        ZNE     50 43

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 10  03 01 47.7     9,5S 155,1E   33KM  5,3  DENTRECASTEAUX IS
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        AFI  ESS       N    03 15 24         33
             EL        ZE      17 12
        SBA  EP        ZNE  03 12 49,5       69

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 10  05 15 13.3     5,6S 153,9E   67KM  4,7  NEW IRELAND
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        AFI  ES        Z    05 27 18         35
             EL        ZNE     30 00
             EL        ZE      31 48
        SBA  EP        ZNE  05 26 35         73 -0,08                    6,9

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 10  06 26 46,3    18,1S 171,8E   63KM  5,2  NEW HEBRIDES
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        AFI  EP        Z    06 30 33         16 -0,55                    5,6
             ES        NE      33 32
             EL        Z       34 40
        SBA  EP        ZNE  06 36 47  D      60
             EPCP      ZNE     37 33,5
             ES        ZN      45 30
             ELR       ZN      55 55

OCT 10  AFI  EP        ZNE  08 26 12
             S         ZNE        36
             T         ZNE     28 06

OCT 10  AFI  EP        ZNE  16 23 50
             ES        ZNE     24 27
             ET        ZNE     27 02

OCT 11  AFI  IP        Z    00 15 44  D
             S         ZNE     16 03

OCT 11  SBA  EP        ZNE  04 01 44,5
             ES        ZNE     07 12

OCT 11  SBA  EP        Z    05 03 29

OCT 11  AFI  EP        ZNE  05 10 06
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             S         ZNE        41

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 11  13 14 21,2     5,6S 153,8E   69KM  4,5  NEW IRELAND
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        SBA  EP        ZNE  13 25 43,5       73

OCT 11  AFI  EP        Z    13 15 10
             ES        NE      16 35
        RAO  EP        Z    13 16 35

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 11  20 28 10,2    10,3S  71,2W  585KM  5,0  PERU-BRAZIL BORDER
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        SBA  IP        ZNE  20 39 53,5D      86 -0,50                    6,3

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 12  04 16 49,5    23,1S 179,2W   99KM  4,2  KERMADEC IS
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        RAO  EP        Z    04 18 16          6

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 12  06 35 06,7    21,1S 179,2W  636KM  5,6  FIJI
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        SUV  EP        Z    06 36 34  U       4
        RAO  EP        Z    06 37 08          8
             ES        Z       38 43
        AFI  IP        Z    06 37 25  D      10
             S         ZNE     39 14
        RAR  P         ZNE  06 38 42         18
             ES        ZNE     42 57
             ET        ZNE     54 12
        SBA  IP        ZNE  06 43 57,8U      57  0,80                    7,1
             EPCP      ZNE     44 42,0
             EPP       ZNE     45 57,5
             ISCP      Z       47 42,5
             ES        ZNE     51 12                           44  2    7,7
             ESCS      ZNE     52 43
             ESS       E       55 16
             ELR       ZNE     58 30

OCT 12  SBA  EP        ZNE  09 09 28

OCT 12  AFI  IP        Z    11 45 40  U
             S         ZNE     46 15

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 12  12 53 46,9    52,2N 152,5E  476KM  5,5  NW OF KURILE IS
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        AFI  EP        Z    13 04 16         73
        SBA  EPKP      ZNE  13 13 55,5      130
             EPP       ZNE     14 48,5

OCT 12  SBA  EP        ZNE  14 51 56,5

         H  M  S        EPICENTRE    DEPTH  MAG
OCT 12  18 31 37,1     7,1S 129,8E   45KM  6,2  BANDA SEA
                          H  M  S   DIR DIS LG-A/T  AZ TZ  AN TN  AE TE MAG
        AFI  IP        Z    18 41 25  U      58  0,22                    7,4
             ES        ZE      49 20
             ES        N          48
             ESCS      ZN      51 20
             E         E          52
             ESS       N       53 40
             ESSS      N       55 42
             EL        ZE      56 18
             EL        ZE      59 36
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	RAR	EP	Z	18	42	41		69						
	SBA	IP	ZNE	18	43	05,5		73						
		EPCP	ZNE			29								
		ES	ZNE		52	24								
		ESS	ZNE		57	14								
		ELQ	ZNE		03	10								
		ELR	ZNE		06	24								
OCT 12	AFI	IP	Z	20	08	56								
		S	ZNE		09	22								
OCT 12	AFI	EP	Z	20	40	45								
		ES	NE		43	12								
OCT 13	AFI	IP	Z	00	13	26	D							
		S	ZNE			45								
OCT 13	AFI	P	Z	01	05	21								
		S	ZNE			40								
OCT 13	AFI	E(P)	Z	06	36	34								
		E(S)	ZNE		38	18								
OCT 13	AFI	E(P)	Z	08	12	13								
		E(S)	ZNE		14	23								
OCT 13	AFI	EP	Z	12	33	11								
		EIS	ZNE		34	04								

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 13	12	39	28,8	4,9S	152,5E	56KM	5,1	NEW BRITAIN						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	12	50	57				73							
OCT 13	AFI	IP		ZNE	16	04	15	U										
		IS		ZNE			43											

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 14	16	08	11,9	15,9S	167,2E	15KM	5,1	NEW HEBRIDES						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZE	16	12	52				20							
		ES		NE		16	48											
		EL		ZE		18	12											
	SBA	EP		ZNE	16	18	34,5				62							

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 15	08	00	50,3	11,9N	86,0W	162KM	6,2	NEAR COSTA RICA						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAR	EP		ZNE	08	12	44				80							
		EePP		Z		13	20											
		ES		ZNE		22	39											
		ESS		Z		28	00											
		EL		ZNE			35											
	AFI	EP		ZNE	08	13	30				89							
		EPCP		ZE		14	07											
		ES		ZNE		23	52											
		ESS		ZNE		30	12											
		ESSS		ZN		33	36											
		EL		ZN		37	00											
		EL		ZNE		41	36											
	SBA	EP		ZNE	08	14	43				105							
		EePP		ZE		15	20											
		EPP		ZNE		19	06,5											
		ESKS		ZNE		25	10							52	5			
		ES		ZNE		26	24											
		EPS		ZNE		28	00											
		ESS		ZNE		34	18											

		ESSS	ZNE		38	04								
		ELQ	ZNE		45	12								
		ELR	ZNE		50	00								

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 15	23	03	15	17,6S	173,2W	40KM	4,6	TONGA						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE	23	04	04				4							
		S		ZNE			43											
		T		ZNE		07	57											
	SUV	EP		Z	23	05	07				8							
	RAR	EP		ZNE	23	06	07				13							
	SBA	EP		ZNE	23	13	27				61							
OCT 15	AFI	EP		ZNE	23	37	24											
		E(S)		ZNE		38	37											
	SBA	EP		ZNE	23	48	50											

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 16	16	58	02	1,7N	127,5E	120KM	5,6	HALMAHERA						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE	17	08	13				62							
	SBA	EP		ZNE	17	10	11,5				82	0,04						6,9

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 16	20	16	56,1	17,3S	66,6E	18KM	5,2	MASCARENE IS						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	20	28	42				75							

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 16	22	16	48,8	18,0S	178,4W	593KM	4,2	FIJI						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		Z	22	18	44				8							
OCT 17	AFI	IP		ZNE	01	32	28											
		S		ZNE			47											
		T		ZNE		34	04											
OCT 17	SBA	EP		ZNE	11	26	40											
		ES		ZNE		29	36											

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 17	13	43	50,2	6,6S	128,8E	225KM	5,0	BANDA SEA						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	13	55	02,5				74							

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 17	14	08	58,4	21,2S	179,1W	636KM	4,8	FIJI						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	IP		Z	14	10	26				4							
	RAO	EP		Z	14	10	59				8							
		ES		Z		12	39											
	AFI	IP		ZNE	14	11	16	D			10							
		IS		ZNE		13	05											
	RAR	EP		ZNE	14	12	34				18							
	SBA	EP		ZNE	14	17	50				57							
		EPP		ZNE		19	48											

	H	M	S	EPICENTRE		DEPTH	MAG							
OCT 18	01	11	44,8	79,8N	2,4E	33KM	5,7	GREENLAND SEA						
						H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES		ZN	01	40	52				114							
		EL		N		58	36											
		EL		E		59	24											
		EL		ZN	02	04	00											
	SBA	EPKP		Z	01	31	48				176							
		EPKP2		ZNE		33	33											

EPP Z 38 06
ESS ZNE 59 00
ESSS ZNE 02 06 30
EL NE 25 00

H M S EPICENTRE DEPTH MAG
OCT 18 02 44 58,8 18,0S 172,8W 44KM 4,4 TONGA
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
AFI EP Z 02 46 02 4
S ZNE 43
ET ZNE 49 14
RAR EP ZNE 02 47 48 13

H M S EPICENTRE DEPTH MAG
OCT 18 10 47 22,6 19,2S 177,5W 536KM 4,3 FIJI
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SUV EP Z 10 48 48 4
AFI IP Z 10 49 16 D 8 -0,78
ES ZNE 50 45
RAO EP Z 10 49 41 10

OCT 18 AFI IP Z 11 55 21 U
S ZNE 40

OCT 18 AFI E(S) ZNE 14 26 08

OCT 18 AFI IP ZNE 16 08 35 D
S ZNE 52

OCT 18 SBA EP ZNE 16 34 18

H M S EPICENTRE DEPTH MAG
OCT 18 22 06 23,5 33,9S 179,6W 26KM 5,4 S OF KERMADEC IS
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
RAO P Z 22 07 31 5
ES Z 08 25
SUV EP Z 22 10 05 16
EPP Z 16
CBZ EP Z 22 11 02 20
AFI EP ZNE 22 11 06 21
ES ZNE 14 42
ET ZNE 30 34
RAR EP ZNE 22 11 09 22
ES ZNE 14 55
ET ZNE 31 43
SBA EP ZNE 22 14 37 44
ES ZNE 21 24
ESS E 24 36
ELR ZNE 50

H M S EPICENTRE DEPTH MAG
OCT 18 23 35 11,0 13,9S 166,5E 87KM 5,0 NEW HEBRIDES
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SUV EP Z 23 37 59 12
RAO EP Z 23 39 48 21
AFI EP ZNE 23 39 50 21 -0,30 5,9
ES ZE 43 44
ES N 44 00
EL ZE 45 00
RAR EP Z 23 41 39 33
SBA EP ZNE 23 45 37 64

H M S EPICENTRE DEPTH MAG
OCT 19 00 44 30,1 2,1N 127,2E 53KM 5,1 MOLUCCA PASSAGE
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 00 56 49 83

H M S EPICENTRE DEPTH MAG
OCT 19 07 27 04,5 13,9S 166,7E 45KM NEW HEBRIDES
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 07 37 33 64

H M S EPICENTRE DEPTH MAG
OCT 19 13 08 40,6 17,6S 178,5W 530KM 3,2 FIJI
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
AFI ES ZNE 13 12 02 7
EP Z 10 33

H M S EPICENTRE DEPTH MAG
OCT 19 14 57 23,7 58,6S 24,8W 33KM 5,3 S SANDWICH IS
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 15 05 26 44

H M S EPICENTRE DEPTH MAG
OCT 19 15 39 10,3 58,7S 25,0W 33KM 5,1 S SANDWICH IS
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 15 47 12,8 44

H M S EPICENTRE DEPTH MAG
OCT 19 16 22 16,8 20,2S 179,0W 567KM 4,2 FIJI
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SUV EP Z 16 23 43 3
AFI EIP ZNE 16 24 29 9
IS ZNE 26 14

H M S EPICENTRE DEPTH MAG
OCT 19 19 20 57,7 58,7S 24,9W 33KM 5,4 S SANDWICH IS
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 19 29 00,5 44

H M S EPICENTRE DEPTH MAG
OCT 20 01 02 43,8 58,6S 25,0W 12KM 5,6 S SANDWICH IS
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SBA IP ZNE 01 10 50 U 44 0,04 6,9
ES ZNE 17 22
ESS ZNE 20 22
ELR ZNE 24 00

H M S EPICENTRE DEPTH MAG
OCT 20 15 25 31,3 58,5S 25,3W 33KM 4,6 S SANDWICH IS
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 15 33 35 44

H M S EPICENTRE DEPTH MAG
OCT 20 15 56 33,4 20,6S 178,1W 556KM 5,0 FIJI
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SUV IP Z 15 57 59 U 4
RAO EP Z 15 58 38 9
ES Z 16 00 10
AFI IP ZNE 15 58 38 U 9
IS ZNE 16 00 16
RAR EP Z 16 00 03 17
SBA IP ZNE 16 05 35,5U 58 -0,33 6,0

H M S EPICENTRE DEPTH MAG
OCT 21 02 35 12,3 27,7S 71,8W 13KM 5,4 NEAR N CHILE
H M S DIR DIS LG=A/T AZ TZ AN TN AE TE MAG
SBA EP ZNE 02 46 21 69 -0,33 6,9
EPCP Z 34,5
ES ZNE 55 33
ESS ZNE 03 00 01
ELR ZNE 08 05
AFI ESS N 03 05 36 92

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           EL        N        14 00
           EL        ZNE      17 30                                    8 24

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 21  04 59 58.1    73.4N  54.8E   0KM   5.9  NOVAYA ZEMLYA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        CBZ  EPKP    Z    05 18 41        146
        SBA  EPKP    ZNE  05 20 00.5      164
             IPKP2   ZNE        54.5

OCT 21  AFI  EP      Z    11 05 58
             ES      NE      06 55

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 21  18 39 40.3    24.8S 177.3W  107KM  4.8  S OF FIJI
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP      Z    18 40 47          4
             ES      Z       41 39
        SUV  IP      Z    18 41 37  U       8
        AFI  EP      ZNE  18 42 23         12
             S       ZNE     44 26
        RAR  EP      ZNE  18 43 28         17
             ES      ZNE     46 17
             ET      ZNE     59 36

OCT 21  CBZ  EP      Z    20 36 01

OCT 21  SBA  IP      ZNE  18 48 54.3             -0.11

OCT 21  CBZ  ES      Z    20 36 46

OCT 21  CBZ  EP      Z    21 34 18
             ES      Z       35 03

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 22  00 52 10.9    22.3S  65.7W  259KM  5.2  JUYJUY ARGENTINA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  IP      ZNE  01 03 28.5D      76 -0.50                        6.3
             ES      NE      12 50

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 22  04 15 32.1    1.6N 127.2E  138KM  5.1  HALMAHERA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE  04 27 39         82

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 22  04 40 53.1    17.0S  69.9W   16KM  4.1  PERU-BOLIVIA BORDER
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      Z    04 52 48         80

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 22  06 30 09.3    2.2S 137.4E   33KM  5.2  W NEW GUINEA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE  06 42 04         77

OCT 22  AFI  EP      ZNE  15 36 21
             S       ZNE     37 02

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 22  14 55 28.4    32.9S 178.5W    9KM       S OF KERMADEC IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP      Z    14 56 19          4

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 22  22 18 14.4    18.0S 174.8W  145KM  4.5  TONGA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZNE  22 19 28          5
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             IS      NE      20 20

OCT 23  SBA  EP      ZNE  02 14 09
             ES      ZNE     17 45

OCT 23  AFI  EP      ZNE  06 33 52
             S       ZNE     34 27

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 23  08 27 06.2    28.9N 139.1E  463KM  5.3  BONIN IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      Z    08 36 53         64

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 24  01 38 12.7    14.7S 167.2E  169KM  4.3  NEW HEBRIDES
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZE   01 42 40         20 -0.84                        5.5
        SBA  IP      ZNE  01 48 24.8U      63 -0.50                        6.4

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 24  03 13 26.5    31.3S 179.7W  250KM  5.4  KERMADEC IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP      Z    03 14 13          3
        SUV  EP      Z    03 16 26         13
        AFI  EP      ZNE  03 17 27         19
             ES      NE      20 42
        SBA  IP      ZNE  03 21 34.5D      47 -0.63                        5.8
             I-PP    ZNE     23 01.5

OCT 24  AFI  EP      ZNE  07 05 50
             S       ZNE     06 23

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 24  10 51 15.1    3.1S 101.5E   63KM  5.5  S SUMATRA
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE  11 03 29.5       82
             EPCP    ZNE        43.8
        AFI  EP      Z    11 03 52         86 -0.84                        6.3

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 24  15 17 54.0    2.4S  79.0W  123KM  5.0  COAST OF ECUADOR
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE  15 30 54         93

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 24  17 16 37.2    13.9S 166.8E   38KM       NEW HEBRIDES
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE  17 27 08.5       64

OCT 24  AFI  IP      ZNE  21 20 46  UNE
             S       ZNE     21 11

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 24  19 42 11.7    59.8S  26.3W   33KM  5.0  S SANDWICH IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZN   19 50 04         42

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 24  23 26 49.4    11.4S 166.1E   70KM  4.1  SANTA CRUZ IS
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE  23 37 33.5       66

        H  M  S       EPICENTRE     DEPTH  MAG
OCT 25  00 59 22.6    24.5N 122.2E   65KM  6.0  TAIWAN
                             H  M  S  DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z    01 10 27         69
        AFI  ESS     ZN   01 25 04         75
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		EL	ZN	31 00										
		EL	ZN	33 18										
	RAR	EP	ZNE	01 12 12		88								
		ESKS	Z	22 46										
	SBA	EP	ZNE	01 13 27,2		105								
		EPP	ZNE	17 42										
		ESKS	ZNE	24 05										
		ESS	ZNE	32 38										
		ESSS	ZNE	37 08										
		ELQ	ZNE	45 36										
		ELR	ZNE	50 00										
	H M S		EPICENTRE		DEPTH	MAG								
OCT 25	01 31 50,0		18,3S 171,9E		41KM	4,9	NEW HEBRIDES							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	01 41 57,5		60								
OCT 25	AFI	EP	ZN	08 26 06										
		ES	ZN	27 36										
	H M S		EPICENTRE		DEPTH	MAG								
OCT 25	09 10 18,7		9,4S 112,9E		58KM	5,2	S OF JAVA							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	09 21 48		74								
	H M S		EPICENTRE		DEPTH	MAG								
OCT 25	09 16 16,0		37,1S 177,5E		189KM	5,1	E OF NORTH IS NEW ZEALAND							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	09 23 49		41								
	H M S		EPICENTRE		DEPTH	MAG								
OCT 26	00 22 21,6		24,5N 122,2E		63KM	5,6	TAIWAN							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	00 33 23		69								
	AFI	EP	Z	00 33 57		73	-0.14							6,3
		ES	ZN	43 36										
		ESS	ZN	48 00										
		EL	ZN	54 00					2 24					
		EL	ZN	56 12										
OCT 26	AFI	E(P)	Z	02 26 37										
		ES	NE	27 12										
	H M S		EPICENTRE		DEPTH	MAG								
OCT 26	05 10 02,0		2,3N 121,7E		62KM	5,0	CELEBES SEA							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	Z	05 15 29	U	68	-1.33							5,7
	H M S		EPICENTRE		DEPTH	MAG								
OCT 26	11 52 41,9		21,1S 179,1W		603KM	3,9	FIJI							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	11 55 01		10								
		ES	ZN	56 48										
OCT 26	AFI	IP	ZN	12 08 29	U									
		S	ZN	49										
	H M S		EPICENTRE		DEPTH	MAG								
OCT 26	17 22 05,3		0,2S 125,2E		42KM	5,6	MOLUCCA SEA							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	17 32 34		64								
		ES	ZNE	41 06										
		ESS	Z	45 54										
		ESSS	N	48 30										
		EL	ZNE	53 24										
	SBA	EP	ZNE	17 34 16,2		81								
		ES	ZNE	44 20										

		ESS	ZNE	49 50										
OCT 27	AFI	EP	N	18 44 36										
OCT 27	AFI	E(P)	N	18 44 53										
		IS	N	45 47										
	H M S		EPICENTRE		DEPTH	MAG								
OCT 27	21 08 41,3		34,5S 112,0W		33KM	4,8	EASTER IS CORDILLERA							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	Z	21 18 09		55								
OCT 27	AFI	EP	N	22 10 36										
		IS	N	55										
OCT 27	AFI	EP	N	22 29 21										
		IS	N	40										
OCT 27	AFI	EP	N	22 49 24										
		S	N	53										
		T	N	51 18										
OCT 28	AFI	EP	ZNE	11 38 20										
		S	ZNE	48										
		T	ZNE	40 48										
OCT 28	SBA	EP	ZNE	16 47 03,5										
OCT 28	AFI	EP	Z	20 41 36										
		ES	NE	43 11										
OCT 28	AFI	EP	Z	22 04 16										
		ES	NE	05 02										
OCT 29	AFI	EP	ZNE	01 29 08										
		S	NE	33										
		ET	ZNE	27 10										
	H M S		EPICENTRE		DEPTH	MAG								
OCT 29	02 59 19,5		24,0S 179,9E		548KM	4,4	S OF FIJI							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAQ	EP	Z	03 00 50		6								
		ES	Z	01 03										
	AFI	EP	ZN	03 01 58		13								
		ES	ZNE	04 09										
	SBA	EP	ZNE	03 07 57		54								
	H M S		EPICENTRE		DEPTH	MAG								
OCT 29	07 15 47,0		22,5S 176,9W		249KM		S OF FIJI							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	07 18 04	D	10								
		ES	ZNE	19 46										
	H M S		EPICENTRE		DEPTH	MAG								
OCT 29	07 45 04,5		19,3S 175,7E		42KM	5,0	S OF FIJI							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z	07 45 39		3								
	AFI	EP	NE	07 50 30		13								
	SBA	EP	ZNE	07 55 00		59								
	H M S		EPICENTRE		DEPTH	MAG								
OCT 29	12 37 22,2		60,8S 23,1W		33KM	5,3	S SANDWICH IS							
			H M S		DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	IP	ZNE	12 45 08	U	41	0.09							6,8
		IPP	ZNE	47 12,2										
		ES	ZNE	51 26										
		ELQ	ZNE	54 02										

		ELR	ZNE	57 05												
	H M S	EPICENTRE	DEPTH	MAG												
OCT 29	16 00 00.4	20.5S 173.9W	33KM	4.4	TONGA											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI EP	Z	16 01 31		7											
	ES	ZNE	02 45													
	ET	ZNE	08 16													
	SBA EP	ZNE	16 09 54.5		58											
OCT 29	AFI EP	ZNE	22 00 30													
	S	ZNE	01 06													
	H M S	EPICENTRE	DEPTH	MAG												
OCT 29	22 22 33.1	57.9S 25.8W	29KM	4.7	S SANDWICH IS											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SBA EP	ZNE	22 30 42		44											
	H M S	EPICENTRE	DEPTH	MAG												
OCT 30	02 36 45.1	22.0S 170.1E	32KM	4.4	LOYALTY IS											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV EP	Z	02 38 52		9											
	AFI IP	Z	02 41 08.5D		19											
	ES	NE	44 54													
	SBA EP	ZNE	02 46 22		56											
	H M S	EPICENTRE	DEPTH	MAG												
OCT 30	14 29 31.6	17.9S 178.5W	538KM	4.0	FIJI											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI IP	ZNE	14 31 26.6U		8	=0.66										
	ES	ZNE	33 00													
OCT 30	AFI E(P)	Z	16 54 26													
	ES	NE	56 33													
	H M S	EPICENTRE	DEPTH	MAG												
OCT 31	01 15 40.8	11.6S 166.0E	63KM	4.4	SANTA CRUZ IS											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI EP	ZE	01 20 38		22											
	SBA IP	ZNE	01 26 23.5U		66	=0.50										6.6
OCT 31	AFI IP	ZNE	09 00 29.0U													
	IS	ZNE	52													
	H M S	EPICENTRE	DEPTH	MAG												
OCT 31	10 14 43.8	19.7S 177.3E	40KM	5.4	S OF FIJI											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI EP	ZE	10 17 33		12											
	ES	ZNE	19 44													
	SBA EP	ZNE	10 24 37.2U		58											
OCT 31	AFI IP	ZNE	12 28 43	U												
	IS	ZNE	29 06													
NOV 01	AFI EP	ZNE	08 30 31													
	EIS	ZNE	31 23													
	H M S	EPICENTRE	DEPTH	MAG												
NOV 01	13 03 13.2	17.3S 173.3W	165KM	4.0	TONGA											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI EP	ZNE	13 03 42		4											
	S	ZNE	04 18													
	T	ZNE	07 00													
	RAR EP	ZNE	13 05 52		13											

	H M S	EPICENTRE	DEPTH	MAG												
NOV 01	14 59 58.9	23.0S 176.8W	140KM	5.3	S OF FIJI											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	RAO EP	Z	15 01 30		6											
	ES	Z	02 39													
	SUV EP	Z	15 01 38		7											
	AFI EP	ZNE	15 02 13.0		10											
	RAR EP	ZNE	15 03 35		16											
	ES	ZNE	06 16													
	ET	ZNE	18 13													
	SBA EP	ZNE	15 09 22.5		55	=0.26										6.8
	H M S	EPICENTRE	DEPTH	MAG												
NOV 01	17 20 24.0	20.5S 179.3W	656KM	4.9	FIJI											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV EP	Z	17 21 51		3											
	RAO EP	Z	17 22 32		9											
	ES	Z	24 17													
	AFI EP	ZNE	17 22 39		10											
	ES	ZNE	24 30													
	SBA EP	ZNE	17 29 18		58	=0.33										6.0
	H M S	EPICENTRE	DEPTH	MAG												
NOV 01	18 56 54.8	4.8S 135.7E	14KM	5.8	W NEW GUINEA											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	AFI EP	Z	19 06 08		53	=0.96										6.1
	ES	NE	13 36													
	ESS	Z	17 42													
	EL	N	20 12													
	EL	ZE	21 30													
	SBA EP	ZNE	19 08 36.2		75											
	ES	ZN	19 48													
	EL	ZNE	32 32													
NOV 01	AFI E	ZE	20 04 12													
NOV 01	AFI E	NE	21 10 00													
	E	NE	16 36													
NOV 02	AFI IP	Z	06 19 50			=0.41										
	ES	NE	21 00													
	H M S	EPICENTRE	DEPTH	MAG												
NOV 02	06 51 54.7	30.6S 177.9W	81KM	4.2	KERMADEC IS											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	RAO EP	Z	06 52 08		1											
	SBA EP	ZNE	07 00 28		48											
NOV 02	AFI EP	Z	14 15 58													
	S	ZNE	16 26													
	ET	ZNE	18 40													
NOV 02	AFI EP	ZNE	21 06 30													
	ES	ZNE	08 38													
	H M S	EPICENTRE	DEPTH	MAG												
NOV 03	07 32 50.1	18.7S 169.0E	230KM	5.3	NEW HEBRIDES											
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG			
	SUV EP	Z	07 34 55		9											
	ES	Z	37 37													
	RAO EP	Z	07 36 23		16											
	ES	Z	39 20													
	AFI EP	ZE	07 36 57		19											
	EPP	ZNE	37 56													
	ES	ZNE	40 12													
	EPCP	ZNE	41 00													

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        RAR  ES      Z   07 43 12       29
        SBA  EP      ZNE 07 42 28,5     59  0,10                              6,8
             EPCP    ZNE     43 20
             ES      ZNE     50 22

NOV 03  AFI  EP      Z   08 14 51
             IS      ZNE     15 12

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 03       08 15 34,4   7,6S  81,4W  14KM   5,2  OFF N PERU
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 08 28 21,5     87

NOV 03  AFI  EP      ZN  18 16 40
             ES      ZNE     17 10
             ET      ZNE     19 03

NOV 03  AFI  EP      Z   19 51 42
              S      ZNE     52 34

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 03       21 34 15,2   15,3S 167,5E 104KM  4,6  NEW HEBRIDES
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 21 44 30,6     63

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 03       22 37 49,6   56,1S  27,2W 155KM  5,4  S SANDWICH IS
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 22 45 59        46  0,02                          6,7

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 04       10 17 14,7   17,8S 179,0W 573KM       FIJI
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZNE 10 19 05        8
              S      ZNE     20 41
        RAO  EP      Z   10 19 46       11
             ES      Z       21 56
        SUV  EP      Z   10 18 29        2
        RAR  EP      ZNE 10 20 56       18
        SBA  EP      ZNE 10 26 32,5     60  -0,11                          6,3
             ES      ZNE     34 14
             ESS     ZNE     37 45

NO RAOUL RECORDS FROM 4TH TO 20TH

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 04       13 26 47,7   37,4N 141,6E  46KM  5,7  TOKYO
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  ES      NE  13 46 30       67

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 04       14 30 37,5   43,5N 144,1E  30KM  5,8  HOKKAIDO JAPAN
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZN  14 41 47       70
             ES      NE      51 00
             ESCS    NE          42
             ESSS    NE      59 00
             EL      ZNE 15 01 48
        RAR  ESKS    N   14 53 27        82
             EL      ZNE 15 07
        SBA  EPKP    ZNE 14 49 29,5     122

NOV 04  AFI  EP      ZNE 14 49 41
              S      ZNE     50 12
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             H  M  S      EPICENTRE    DEPTH  MAG
NOV 04       16 26 48,2   2,8S  77,7W  99KM  6,0  PERU-ECUADOR BORDER
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  IP      ZNE 16 39 50,5     93  0,34                          7,8

NOV 05  AFI  EP      Z   00 43 06
             ES      ZNE     45 18

NOV 06  AFI  EP      ZNE 10 09 34
              S              53

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 06       21 32 56,5   17,7S 178,7W 549KM  4,5  FIJI
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z   21 34 13        3
        AFI  IP      ZNE 21 34 51  D     8
              S      ZNE     36 36

NOV 06  AFI  IP      ZNE 22 42 42,9U

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 07       03 49 17,4   14,0S 173,0W  43KM  5,6  SAMOA
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP      ZNE 03 49 35,0U     1
        SUV  EP      Z   03 51 33        9
        RAR  EP      ZNE 03 52 27       15
             ES      ZNE     54 51
        SBA  EP      ZNE 03 59 48       65
             EPCP    ZNE 04 00 02,5
             ES      ZNE     08 31
             ESS     ZNE     12 02
             ELQ     ZNE     16 00
             ELR     ZNE     18 39

NOV 07  AFI  IP      ZNE 18 11 44  U
              S      ZNE     12 21

NOV 08  AFI  E(S)    ZNE 02 24 54

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 08       06 07 21,4   5,3S 134,0E  33KM  5,9  ARDE IS
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZE  06 16 46       54
             ES      NE      24 24
             ESS     ZN      28 00
             EL      ZE      33 48
        SBA  EP      ZNE 06 18 59,2     79  -0,11                          7,0
             ES      ZNE     28 38
             ELR     ZNE     43 50

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 08       17 09 27,1   51,1N 178,5E  29KM  5,3  ALEUTIAN IS
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  ES      ZNE 17 29 00       65
             EL      N       38 06
             EL      Z           48

NOV 08  AFI  EP      ZNE 17 13 41
             ES      ZNE     15 16

             H  M  S      EPICENTRE    DEPTH  MAG
NOV 09       02 18 45,5   7,2S 123,6E  560KM  5,8  BANDA SEA
                          H  M  S  DIR DIS LGwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP      ZE  02 28 24,5DM    64  -0,36                          6,2
        SBA  EP      ZNE 02 29 26       74  -0,41                          6,1
             ES      ZNE     38 14
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			H M S	EPICENTRE	DEPTH	MAG								
NOV 09			02 20 51.0	15.8S 178.4E	84KM	4.8	FIJI							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 02 21 16			2								
	AFI	EP	ZE 02 23 07			10								
		ES	ZNE 24 48											
NOV 09	AFI	EP	ZNE 13 57 55											
		ES	ZNE 59 30											
			H M S	EPICENTRE	DEPTH	MAG								
NOV 09			20 11 32.1	15.1S 173.2W	65KM	4.9	TONGA							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE 20 11 54.6D			2								
		S	ZNE 12 12.0											
	RAR	EP	ZE 20 14 43			14								
			H M S	EPICENTRE	DEPTH	MAG								
NOV 10			03 27 33.6	21.5S 175.7W	100KM	4.8	TONGA							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 03 29 11			6								
	AFI	EP	ZNE 03 29 26.0			8								
		ES	ZNE 30 50.0											
	RAR	EP	Z 03 30 52			15								
		ES	ZNE 33 22											
NOV 10	AFI	EP	Z 12 29 04.0											
		ES	NE 56.0											
			H M S	EPICENTRE	DEPTH	MAG								
NOV 10			13 11 18.1	18.0S 178.5W	592KM	5.0	FIJI							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 13 12 39			3								
	AFI	IP	ZNE 13 13 13			8	0.59							
		S	ZNE 14 42											
	SBA	EP	ZNE 13 20 33			60								
			H M S	EPICENTRE	DEPTH	MAG								
NOV 10			16 09 58.0	18.5S 168.9E	119KM	4.7	NEW HEBRIDES IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 16 19 50			59								
			H M S	EPICENTRE	DEPTH	MAG								
NOV 10			18 38 37.6	6.0S 71.4E	32KM	5.4	CHAGOS ARCHIPELAGO							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 18 51 13			85								
		ES	ZNE 19 01 48											
		ESS	ZNE 07 36											
		ELQ	ZNE 15 53											
		ELR	ZNE 19 54											
NOV 10	AFI	IP	Z 19 05 15 U											
		ES	NE 06 45											
NOV 11	SBA	EP	ZNE 02 38 13											
NOV 11	AFI	EP	ZNE 04 23 20.0											
		ES	NE 53.0											
			H M S	EPICENTRE	DEPTH	MAG								
NOV 11			06 39 35.1	24.2S 179.7W	465KM	4.1	S OF FIJI							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 06 41 14			6								
	AFI	EP	Z 06 42 22			13								
		ES	ZNE 44 26											

			H M S	EPICENTRE	DEPTH	MAG								
NOV 11			11 55 55.6	6.0S 71.4E	37KM	5.6	CHAGOS ARCHIPELAGO							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 12 08 32			85								
		ES	ZNE 19 10											
			H M S	EPICENTRE	DEPTH	MAG								
NOV 11			12 14 57.3	6.0S 71.3E	34KM	5.7	CHAGOS ARCHIPELAGO							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 12 27 34			85								
		ES	ZNE 36 20											
		ESS	ZNE 44 00											
		ESSS	ZNE 48 08											
		ELQ	ZNE 52 18											
		ELR	ZNE 55 42											
	AFI	EwSS	ZNE 12 50 30.0			114								
		EL	ZNE 13 02 24.0											
			H M S	EPICENTRE	DEPTH	MAG								
NOV 11			18 00 00.7	6.1S 71.4E	33KM	5.7	CHAGOS ARCHIPELAGO							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 18 12 37			89								
		ES	ZNE 23 07											
		ELR	ZNE 41 00											
			H M S	EPICENTRE	DEPTH	MAG								
NOV 11			20 18 11.1	6.0S 71.3E	20KM	5.4	CHAGOS ARCHIPELAGO							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE 20 30 49			85								
			H M S	EPICENTRE	DEPTH	MAG								
NOV 12			10 36 52.0	17.2S 172.0W	34KM	5.6	TONGA							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE 10 37 41			3								
		S	ZNE 38 16											
	RAR	IP	ZNE 10 39 38.6		UN	12	0.56							
		ES	ZNE 41 44											
	SBA	IP	ZNE 10 47 07.5		U	62	0.03							7.2
		ELR	ZNE 11 05 00											
NOV 12	AFI	EP	ZNE 13 29 49											
		ES	ZNE 30 40											
NOV 12	AFI	EP	ZNE 15 02 33											
		S	ZNE 03 06											
		ET	ZNE 05 45											
NOV 12	AFI	EP	ZNE 15 29 32											
		ES	ZNE 30 14											
		ET	ZNE 33 02											
			H M S	EPICENTRE	DEPTH	MAG								
NOV 12			17 24 31.9	22.8S 170.7E	26KM	5.1	LOYALTY IS							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE 17 28 53			19								
		ES	ZNE 32 12											
	SBA	EP	ZNE 17 34 04			55								
		ELR	ZNE 51 40											
			H M S	EPICENTRE	DEPTH	MAG								
NOV 12			21 59 50.7	25.2S 177.2W	225KM	4.9	S OF FIJI							
				H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EIP	ZNE 22 02 19			12								
		S	ZNE 04 23											
	RAR	EP	ZNE 22 03 16			17								
		ES	ZNE 05 59											

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        SBA  EP      ZNE 22 08 48,5      53

NOV 12  AFI  EP      ZNE 22 35 50,0
              S      ZNE    36 10,0

NOV 13  AFI  EP      ZNE 04 41 53
              S      ZNE    42 27
              T      ZNE    45 00

NOV 13  AFI  IP      ZNE 15 36 07  D
             ES      ZNE       13

NOV 14  AFI  EP      ZNE 00 49 26

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 14  05 28 36,9    5,4S 147,1E 201KM  5,8  E NEW GUINEA
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP      ZNE 05 36 04,1U    41
             ES      NE     42 00
             EL      ZN     45 18
        RAR  EP      ZE  05 37 40       54
        SBA  EP      ZNE 05 39 47,6U    73
             ES      ZNE    49 02
             EL      ZNE 06 03 40

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 14  19 44 45,6    18,0S 175,2W 255KM  4,4  TONGA
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZNE 19 46 01       5
             EIS     ZNE        57
        RAR  EP      Z   19 48 02      15

NOV 14  AFI  EP      ZNE 20 04 51
              S      ZNE    05 24

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 15  07 04 15,7    13,5S 165,8E  94KM  4,9  NEW HEBRIDES IS
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 07 14 43,5     64

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 15  21 31 51,5    28,7S  71,2W  15KM  6,2  NEAR COAST CHILE
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  IP      ZNE 21 42 53,8     68  0,59                      7,8
             EPCP    ZNE    43 07
             ES      ZNE    52 04
             ESS     ZNE    56 54
             ELQ     ZNE 22 00 00
             ELR     ZNE    03 45
             EPKPPKP ZNE    11 09
        RAR  EP      Z   21 44 04      79
        AFI  ES      ZE  21 55 56      92
             E-SS    ZNE 22 01 56
             EL      ZNE    09 18
             EL      ZNE    14 00

NOV 15  AFI  EP      Z   21 43 17
              S      ZNE        45
              T      ZNE    45 49

NOV 15  AFI  EP      Z   23 56 28
              S      ZNE        42
              T      ZNE    58 14

NOV 16  SBA  IP      ZNE 01 26 14,2       -0,07
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         H  M  S      EPICENTRE   DEPTH  MAG
NOV 16  01 33 56,4    14,8S 173,9W  33KM  4,2  SAMOA
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  ES      ZNE 01 34 24       2

NOV 16  AFI  EP      Z   12 06 16
              S      ZNE        35
              T      ZNE    08 22

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 16  16 31 03,6    20,7S 178,8W 591KM  4,5  FIJI
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP      ZNE 16 33 17,6U    10  -0,27
             ES      ZNE    35 03

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 16  22 26 19,1    13,9S 171,8E  22KM  4,9  NEW HEBRIDES
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z   22 28 16       8

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 17  07 49 03,1    24,5S  68,5W 119KM  4,6  CHILE-ARGENTINA BORDER
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 08 00 23      73

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 17  09 19 21,0    6,3S 154,8E  91KM  5,0  SOLOMON IS
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z   09 25 03      26
        AFI  EP      Z   09 26 12      34
             EL      ZNE    33 30
             EL      ZE     35 12
        SBA  EP      ZNE 09 30 38,5     72
             EPCP    ZNE        53,3

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 17  10 10 04,7    13,7S 167,3E 215KM  4,9  NEW HEBRIDES
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP      Z   10 12 53      12
        SBA  EP      ZNE 10 20 18      64

NOV 17  AFI  IP      ZNE 10 29 29,6U      -0,71

NOV 17  AFI  EP      ZN  13 42 44
              S      ZNE    43 03

NOV 18  AFI  EP      ZNE 01 13 28
             EIS     ZNE    14 14

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 18  14 50 58,7    4,8S 133,8E  33KM  4,9  W NEW GUINEA
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZE  15 02 40      75

         H  M  S      EPICENTRE   DEPTH  MAG
NOV 18  21 41 58,3    22,1S 179,6W 553KM  4,3  S OF FIJI
                        H  M  S  DIR DIS LQwA/T  AZ TZ  AN TN  AE TE  MAG
        SUV  IP      Z   21 43 27,7U      4
        AFI  EP      ZNE 21 44 27       11
             ES      ZNE    46 23
        RAR  EP      Z   21 45 40      18

NOV 18  AFI  EP      ZNE 23 04 40
             EIS     ZNE    05 21

NOV 19  AFI  IP      ZNE 00 46 26  U
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		S	ZNE	42									
NOV 19	AFI	IP	ZNE	05 36 08,9U									
		S	ZNE	23									
	H M S	EPICENTRE	DEPTH	MAG									
NOV 19	12 06 59,5	36,4N 141,1E	41KM	5,5	JAPAN								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE 12 17 49		67								
		ES	NE 26 40										
		EL	ZNE 27 18										
	SBA	EPKP	ZNE 12 25 38		115								
		EPP	ZNE 26 35										
		EPKKP	ZNE 36 15										
	H M S	EPICENTRE	DEPTH	MAG									
NOV 19	15 41 09,6	21,5S 179,3W	586KM	4,4	FIJI								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE 15 43 32	U	10	=0,87							
		ES	ZNE 45 23										
	H M S	EPICENTRE	DEPTH	MAG									
NOV 19	17 29 20,9	22,6S 170,9E	33KM	5,2	LOYALTY IS								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	P	Z 17 31 27		8								
	AFI	EP	ZNE 17 33 35		19								
		IS	ZNE 37 02										
		IL	Z 38										
	RAR	EP	Z 17 35 02		27								
		ELQ	Z 41										
		ELR	N 42										
	SBA	EP	ZNE 17 38 53,0		55								
		EPP	ZNE 41 00										
		ES	ZNE 46 39										
		ESS	ZNE 51 00										
		ELQ	ZNE 52 42										
		ELR	ZNE 55 25										
	H M S	EPICENTRE	DEPTH	MAG									
NOV 19	17 49 20,3	22,6S 170,8E	38KM	4,5	LOYALTY IS								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 17 51 24		8								
	SBA	EP	ZNE 17 58 53		55								
	H M S	EPICENTRE	DEPTH	MAG									
NOV 19	19 05 57,1	22,7S 171,0E	33KM	4,4	LOYALTY IS								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE 19 10 12		19								
	H M S	EPICENTRE	DEPTH	MAG									
NOV 19	20 19 35,0	22,6S 170,7E	33KM	4,3	LOYALTY IS								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE 20 23 53		19								
NOV 20	AFI	EP	ZNE 02 03 53,0										
		ES	ZNE 04 20,0										
		ET	ZNE 06 10,0										
	H M S	EPICENTRE	DEPTH	MAG									
NOV 20	02 11 25,3	15,3S 174,3W	33KM	4,8	TONGA								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE 02 12 01	D	3								
		S	ZNE 28										
		T	ZNE 14 32										
	RAR	EP	ZNE 02 14 52		15								
		ET	ZNE 30 06										
	SBA	EP	ZNE 02 21 53		63								

NOV 20	AFI	EP	ZNE 02 28 54										
		ES	NE 29 24										
		ET	ZNE 31 20										
	H M S	EPICENTRE	DEPTH	MAG									
NOV 20	10 48 31,8	32,0N 140,9E	65KM	5,0	S OF HONSHU								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z 10 59 04		64								
NOV 20	AFI	EP	ZNE 18 40 42										
		S	ZNE 41 03										
NOV 20	AFI	EIP	ZNE 19 51 36										
		S	NE 52 00										
	H M S	EPICENTRE	DEPTH	MAG									
NOV 21	05 06 03,0	18,0S 173,4W	33KM	4,3	TONGA								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE 05 07 07		4								
		EIS	NE 57										
		ET	ZNE 11 10										
NOV 21	AFI	EP	ZNE 12 35 53										
		S	ZNE 36 14										
	H M S	EPICENTRE	DEPTH	MAG									
NOV 21	19 59 32,4	12,6S 166,3E	48KM	4,5	SANTA CRUZ IS								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 20 02 42		13								
	AFI	EP	ZNE 20 04 18		21								
		EL	ZE 10 36										
	SBA	EP	ZNE 20 10 12		65								
	H M S	EPICENTRE	DEPTH	MAG									
NOV 22	15 19 26,8	22,7S 170,9E	42KM	5,2	LOYALTY IS								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 15 21 29		8								
	AFI	EP	ZNE 15 23 38		19								
		ES	ZNE 27 00										
		EL	ZNE 29 00										
	RAR	EP	Z 15 25 07		27								
		ES	ZNE 29 45										
		EL	ZNE 31										
	SBA	EP	ZNE 15 29 00		55								
		ES	ZNE 36 46										
		ESS	ZNE 40 32										
		ELR	ZNE 45 24										
		EPKKP	ZNE 50 00										
	H M S	EPICENTRE	DEPTH	MAG									
NOV 22	16 40 33,0	23,0S 171,0E	22KM	4,7	LOYALTY IS								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z 16 42 40		8								
	AFI	EP	Z 16 44 52		19								
	H M S	EPICENTRE	DEPTH	MAG									
NOV 23	08 35 49,5	14,5N 52,1E	3KM	7,0	E GULF OF ADEN								
			H M S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPP	ZNE 08 54 49		109								
		ESKS	ZNE 09 01 10										
		EPS	ZNE 04 20										
		ESS	ZNE 10 00										
		ESSS	ZNE 14 04										
		ELQ	ZNE 20 45										
		ELR	ZNE 27 00										
	AFI	EPKP	Z 08 55 29		138								

		ES	ZE	09	10	00								
		ESS	NE		16	12								
		ESSS	NE		21	12								
		EL	N		27	18								
		EL	ZN		30	48								
	RAR	EPKP	Z	08	55	48		149						

NOV 23	AFI	EP	ZNE	12	20	57								
		EIS	ZNE		21	28								

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 23	13	42	01,6	80,2N		1,0W	10KM	5,8	N OF SVALBARD					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZN	14	11	12			114								
		ESS	ZN		17	24											
		EL	ZN		34	18											
	RAR	E	N	14	19	13			120								
		EL	ZNE		38												
	SBA	EPP	NE	14	08	12			177								
		ESKKS	NE		14	36											
		ESKSP	NE		18	50											
		ESS	NE		29	18											
		ESSS	NE		36	28											

NOV 24	AFI	IP	ZNE	02	09	21,5U								
		ES	ZNE			55								

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 24	05	42	14,0	16,4S		177,9W	428KM	5,4	FIJI					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	P	Z		05	43	25			4							
	AFI	IP	ZNE		05	43	50	U		6							
		EIS	ZNE			45	11										
	RAO	EP	Z		05	45	02			13							
		ES	Z			47	19										
	RAR	P	ZNE		05	45	57			18							
	SBA	EP	ZNE		05	51	52,5			62							

NOV 24	AFI	IP	ZE	10	32	43,5U								
		ES	NE		33	13								
		ET	ZNE		35	10								

NOV 24	AFI	EP	ZNE	10	52	32								
		S	ZNE			38								

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 25	10	32	32,7	24,8S		179,4E	567KM	4,7	S OF FIJI					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z		10	33	56			5							
		ES	Z			35	07										
	SUV	EP	Z		10	34	12			7							
	AFI	IP	ZNE	10	35	18,5D			14								

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 25	12	58	48,1	22,6S		170,7E	64KM	4,8	LOYALTY IS					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z		13	00	48			9							

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 25	21	51	57,6	55,3S		29,1W	33KM	5,4	S SANDWICH IS					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	22	00	26			47								
		ES	ZNE		07	30											

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 26	00	08	09,8	28,6N		130,0E	33KM	5,7	RYUKYU IS					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZNE	00	28	40			70								
		EL	Z		40	54											
		EL	NE		41	18											

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 26	02	53	57,8	8,1S		112,9E	80KM	5,7	JAVA					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	03	05	29			75								

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 26	08	11	06,3	56,6N		152,2W	28KM	4,9	KODIAK IS					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ESS	E	08	39	00			72								
		EL	ZE		44	00											

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 26	10	53	21,9	1,9S		127,8E	8KM	5,5	HALMAHERA					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP	ZNE	11	05	26,5			79								

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 26	11	55	53,3	22,9S		171,4E	58KM	4,7	LOYALTY IS					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z		11	57	53			8							
	SBA	EP	ZNE	12	05	21			55								

NOV 26	AFI	IP	ZNE	15	30	29	U							
		IS	ZNE		31	00								

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 27	00	06	44,5	15,3S		173,6W	173KM	4,3	TONGA					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	00	06	54,6	DSW		2								
		ES	ZN		07	20											

NOV 27	AFI	EP	ZNE	05	13	15								
		EIS	ZNE			34								
		T	ZNE		15	04								

NOV 27	AFI	IP	ZNE	06	51	26	D							
		S	ZNE			46								

NOV 27	AFI	IP	ZNE	07	51	48	U							
		S	ZNE		52	08								

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 27	08	18	42,4	21,3S		174,3W	33KM	5,4	TONGA					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	ZNE	08	20	27			8								
		ES	NE		21	40											
		EL	ZN		22	24											
		T	ZNE		28	02											
	RAO	EP	Z	08	20	39			9								
		ES	Z		22	17											
	RAR	EP	Z	08	21	42			14								
		ES	ZNE		23	55											
	SBA	EP	ZNE	08	28	33			37								
		ES	ZNE		36	38											

	H	M	S	EPICENTRE			DEPTH	MAG						
NOV 27	11	08	08,4	22,8S		170,8E	33KM	4,6	LOYALTY IS					
					H	M	S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP	Z		11	10	17			9							

			H M S	EPICENTRE	DEPTH	MAG								
NOV 27			15 42 25,2	21,2S 174,4W	33KM	4,6	TONGA							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE 15 44 10		8								
		ES		ZNE 45 30										
		ET		ZNE 51 45										
	RAR	EP		Z 15 45 23		14								

			H M S	EPICENTRE	DEPTH	MAG								
NOV 28			02 36 54,1	32,1N 130,8E	125KM	5,6	KYUSHU							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES		NE 02 57 16		71								
		EL		ZN 03 09 30										
NOV 29	AFI	IP		Z 00 23 56,5U										
		S		ZNE 24 15										

			H M S	EPICENTRE	DEPTH	MAG								
NOV 29			08 09 27,2	55,9S 26,1W	33KM		S SANDWICH IS							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE 08 17 51		46								

			H M S	EPICENTRE	DEPTH	MAG								
NOV 29			13 24 47,0	23,5S 179,8W	528KM	4,8	S OF FIJI							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP		Z 13 26 23		6								
	RAO	EP		Z 13 26 27		6								
		ES		Z 27 42										
	AFI	EP		ZNE 13 27 27		12	=0,81							
		ES		ZNE 29 32										

			H M S	EPICENTRE	DEPTH	MAG								
NOV 29			15 03 38,0	53,6S 6,1E	33KM	5,4	BOUVET IS							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE 15 12 12		48								
		EPCP		ZNE 14 08										
		ES		ZNE 19 10										
		ESS		ZNE 22 46										
		ELR		ZNE 26 12										

			H M S	EPICENTRE	DEPTH	MAG								
NOV 30			07 23 51,5	41,5N 20,5E	29KM	6,0	ALBANIA							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EPKP		ZNE 07 43 15		141								
		EPP		ZNE 46 23,5										
		ESS		ZNE 08 04 52										
		ESSS		ZNE 10 00										
		EL		ZNE 25 30										
	AFI	EPKP		ZNE 07 43 42		151								
		E(PKP)		Z 44 15										
		E		N 08 13 12										
		E		ZE 15 00										
		E		N 26 00										
		ELQ		E 28 30										
		ELR		ZN 32 48										
NOV 30	AFI	E(P)		ZNE 07 56 49										
NOV 30	SBA	EP		ZNE 11 02 06										
		ES		ZNE 18,8										

			H M S	EPICENTRE	DEPTH	MAG								
NOV 30			11 39 13,1	27,4S 176,9W	40KM	4,4	KERMADEC IS							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP		Z 11 39 45		2								
	AFI	EP		ZNE 11 42 32		14								

		ES	ZNE 45 00											
		ET	ZNE 55 28											
NOV 30	AFI	EP	ZNE 12 49 41											

			H M S	EPICENTRE	DEPTH	MAG								
NOV 30			15 47 44,2	17,9S 178,3W	629KM	4,7	FIJI							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SUV	EP		Z 15 49 10		3								
	AFI	IP		ZNE 15 49 39,6D		7								
		S		ZNE 51 13										
	RAR	EP		Z 15 51 18		18								
	SBA	EP		ZNE 15 56 57	U	60								

			H M S	EPICENTRE	DEPTH	MAG								
NOV 30			18 05 19,2	8,1S 80,2W	45KM	5,1	OFF N PERU							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE 18 18 16		90								
NOV 30	AFI	EP		ZNE 20 24 00										
		ES		ZNE 25 00										
NOV 30	AFI	EP		ZNE 20 47 27										
		ES		ZNE 48 20										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 01			07 47 42,1	23,5S 179,9E	45KM	4,3	S OF FIJI							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE 07 50 09		12								
		ES		NE 52 25										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 01			13 57 02,4	49,5N 154,4E	136KM	5,9	KURILE IS							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP		ZN 14 07 58	D	70								
		E		Z 08 34										
		ES		ZNE 17 00										
		E		ZNE 24 30										
		EL		ZN 28 00										
		ET		ZNE 15 23 05										
	RAR	EP		ZNE 14 09 04		81								
		E		ZNE 19 14										
	SBA	EPKP		ZNE 14 15 30		127								
		EPP		ZNE 17 54										
		EPKS		ZNE 19 52										
		ESKS		ZNE 22 43										
		ESS		ZNE 35 00										
DEC 01	AFI	IP		ZNE 15 40 08,5D										
		S		ZNE 25										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 01			16 53 08,8	17,6S 178,5W	504KM	4,2	FIJI							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE 16 59 01		7	=0,57							
		ES		ZNE 56 30										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 02			00 31 18,9	24,1N 108,6W	33KM	5,1	GULF OF CALIFORNIA							
				H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		Z 00 42 46		72								
		ES		N 52 48										
		EL		ZNE 01 03 54										
DEC 02	AFI	EP		ZNE 02 10 55										
		S		ZNS 11 16										
DEC 02	AFI	EP		ZNE 06 20 55										

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                S      ZNE    21 30
                T      ZNE    23 29

DEC 02  AFI E(P)       Z   13 04 38             -1.11

DEC 02  AFI  EP        Z   16 24 22
             ES        ZNE    25 59

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 02  17 22 39,1     38,5S 175,9E 166KM  5,4  NORTH IS NZ
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        AFI  EP        Z   17 28 04      27
             EP        ZNE       09

DEC 03  AFI  IP        ZNE 02 42 45  USW
             IS        ZNE    43 22

DEC 03  AFI  EP        Z   11 50 04
             ES        ZNE    52 05

DEC 04  AFI  EP        ZNE 01 13 09
             ES        ZNE       55

DEC 04  AFI  EP        ZNE 08 29 11
              S        ZNE       30

DEC 04  AFI  EP        Z   09 04 12
              S        ZNE       32

DEC 04  AFI  EP        Z   14 36 41
             ES        ZNE    38 13

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 04  19 00 22,6     63,0S  60,5W  33KM  4,7  PALMER PENINSULA
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SBA  EP        Z   19 07 28      36
             ES        NE     13 40

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 04  22 05 21,8     25,1S 179,8E 522KM  4,5  S OF FIJI
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        RAO  EP        Z   22 06 45       5
             ES        Z      07 54
        AFI  EP        ZN  22 08 10      14
             ES        ZNE    10 29

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 05  17 28 31,5     20,8S 178,8W 656KM  4,5  FIJI
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SUV  EP        Z   17 29 52       4
        RAO  EP        Z   17 30 31       8
             ES        Z      32 13
        AFI  EP        Z   17 30 38      10
             ES        ZNE    32 21

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 06  05 03 40,8     21,3S 178,8W 559KM  5,1  FIJI
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE MAG
        SUV  IP        Z   05 05 05  U    4
        RAO  EP        Z   05 05 38       8
             ES        Z      07 06
        AFI  EP        ZNE 05 05 56      10
             ES        ZNE    07 36
        RAR  EP        ZNE 05 07 16      18
        SBA  EP        ZNE 05 12 37,5U   57 -0,50                           5,9
             EP        ZNE    19 55
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         H  M  S        EPICENTRE   DEPTH  MAG
DEC 06  09 41 06,4     14,9S 167,3E 124KM  5,3  NEW HEBRIDES
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP        Z   09 43 55      11
        RAO  EP        Z   09 45 27      20
        AFI  EP        Z   09 45 37      20
        SBA  EP        ZNE 09 51 21,5U   63 -0,11                            7,0

DEC 07  AFI  IP        Z   00 11 31  U
              S        ZNE       51

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 07  07 40 09,0     22,7S 175,2W  33KM  4,6  TONGA
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP        Z   07 42 17       9
              S        ZNE    43 45
        RAR  EP        ZNE 07 43 23      14

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 07  09 41 14,1     16,7S 174,1W 120KM  5,0  TONGA
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  IP        ZNE 09 42 05  U    4
              S        ZNE       38
        SUV  EP        Z   09 43 05       7
        RAO  EP        Z   09 44 14      13
             ES        Z      46 28
        RAR  EP        ZNE 09 44 28      14 -0,29
             ES        ZNE    47 02
        SBA  EP        ZNE 09 51 24,3    62 -0,33                            6,8

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 07  09 49 37,0     14,6S 167,3E 151KM  5,3  NEW HEBRIDES
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SUV  EP        Z   09 52 18      11
        AFI  EP        ZNE 09 54 07      20 -0,66                            5,7
             ES        ZNE    57 56
        SBA  EP        ZNE 09 59 50,5    63  0,04                            7,0

DEC 07  AFI  EP        Z   14 35 22
             ES        ZNE    36 13

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 07  20 28 46,0     30,8S 179,7W 366KM  4,5  KERMADEC IS
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        RAO  EP        Z   20 29 40       2
             ES        Z      30 20

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 07  20 51 01,5     21,3S 174,5W  33KM  4,3  TONGA
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP        Z   20 52 49       8
             ES        ZNE    54 04
             ET        ZNE 21 00 18

         H  M  S        EPICENTRE   DEPTH  MAG
DEC 08  02 00 27,9     10,6S 161,5E  14KM  5,4  SOLOMON IS
                              H  M  S DIR DIS LG.A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP        ZNE 02 11 34      67
             ES        ZNE    20 25

DEC 08  SBA  EP        ZNE 03 24 12

DEC 08  AFI  EP        Z   03 43 34         -1,41
             ES        NE     46 28

DEC 08  AFI  EP        Z   11 55 56         -1,15
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		ES	NE	57 44													
DEC 08	AFI	EP	ZNE	15 33 28													
		S	ZNE	49													
DEC 08	AFI	EP	ZNE	21 03 48													
		S	ZNE	04 10													
	H M S		EPICENTRE		DEPTH	MAG											
DEC 09	05 28 38,9		22,2S 179,4W		588KM	4,9	S OF FIJI										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SJV	IP	Z	05 30 07,2U				5									
	RAO	EP	Z	05 30 28				7									
		ES	Z	31 52													
	AFI	EP	ZNE	05 31 03				11									
		ES	ZNE	33 00													
	RAR	EP	Z	05 32 16				18									
	H M S		EPICENTRE		DEPTH	MAG											
DEC 09	07 54 19,8		15,2S 173,3W		33KM	5,0	TONGA										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	IP	ZNE	07 54 44,5D				2									
		S	ZNE	55 00													
	SJV	EP	Z	07 56 29				8									
	RAR	EP	ZNE	07 57 32				14									
	SBA	EP	ZNE	08 04 49,5				63									
	H M S		EPICENTRE		DEPTH	MAG											
DEC 09	10 50 46,6		10,9S 164,2E		33KM	5,5	SANTA CRUZ IS										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SJV	EP	Z	10 54 35				16									
	AFI	EP	Z	10 55 56				24									
		ES	ZNE	11 00 16													
		E	N	01 00													
		EL	ZN	02 28													
	SBA	EP	ZNE	11 01 39				67									
		ES	ZNE	10 36													
		ESS	ZNE	14 17													
		ELQ	ZNE	18 22													
		ELR	ZNE	21 58													
	H M S		EPICENTRE		DEPTH	MAG											
DEC 10	09 14 23,2		19,4S 173,9W		33KM	4,4	TONGA										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	ZNE	09 15 43				6									
		ES	ZNE	16 38													
		ET	ZNE	21 24													
	RAR	EP	ZNE	09 17 15				13									
	H M S		EPICENTRE		DEPTH	MAG											
DEC 10	12 06 50,3		40,5N 124,6W		5KM	5,8	N CALIFORNIA										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	Z	12 18 11				70									
		ESS	NE	35 00													
		EL	ZNE	40 00													
DEC 10	AFI	IP	ZNE	14 25 43,7U													
		ES	ZNE	26 08													
	H M S		EPICENTRE		DEPTH	MAG											
DEC 10	22 51 24,3		17,7N 73,9E		33KM	6,0	INDIA										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SBA	EPP	NE	23 10 13				108									
		ESKS	NE	16 14													
		EPS	NE	19 26													
		ELR	NE	39 50													
	AFI	EPKKP	ZE	23 20 54				117									

		ESS	ZNE	26 42													
		EL	N	38 12													
		EL	ZN	46 30													
DEC 11	CBZ	EP	Z	05 29 01													
		E(S)	Z	30 01													
	H M S		EPICENTRE		DEPTH	MAG											
DEC 11	10 17 06,0		15,4S 173,4E		33KM	4,8	TONGA										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	IP	ZNE	10 17 38,1				14									
		S	ZNE	56													
	SBA	EP	ZNE	10 27 36,5				63									
DEC 11	AFI	EP	Z	12 21 58													
		ES	NE	23 25													
	RAR	E	ZNE	12 22 56													
DEC 11	AFI	EP	ZNE	17 23 03													
		S	ZNE	28													
	H M S		EPICENTRE		DEPTH	MAG											
DEC 11	19 40 53,3		20,6S 174,3W		33KM	5,3	TONGA										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	AFI	EP	ZNE	19 42 30				7									
		S	ZNE	43 37													
		ET	ZNE	49 17													
	SJV	EP	Z	19 42 46				7									
	RAO	EP	Z	19 43 05				9									
		ES	Z	44 46													
	RAR	EP	ZNE	19 43 54				14									
		ES	ZNE	46 09													
		EL	ZNE	47													
	SBA	EP	ZNE	19 50 47				58									
		ES	NE	58 56													
	H M S		EPICENTRE		DEPTH	MAG											
DEC 12	08 06 16,7		22,7S 171,1E		39KM	4,9	LOYALTY IS										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SJV	EP	Z	08 08 19				8									
	AFI	EP	ZNE	08 10 32				18									
		ES	ZNE	13 54													
		ES	NE	14 24													
		E(L)	ZN	15 42													
		EL	E	16 36													
	RAR	ES	ZNE	08 16 33				27									
	SBA	EP	ZNE	08 15 52				55									
		ES	ZNE	23 36													
		ELR	ZNE	32 08													
	H M S		EPICENTRE		DEPTH	MAG											
DEC 13	19 07 14,4		19,1S 168,7E		51KM	5,7	NEW HEBRIDES										
			H	M	S	DIR	DIS	LGwA/T	AZ	TZ	AN	TN	AE	TE	MAG		
	SJV	EP	Z	19 09 31				9									
	RAO	EP	Z	19 11 03				16									
	AFI	EP	ZNE	19 11 40				19									
		ES	E	15 00													
		ES	ZN	16													
		EL	ZNE	16 42													
	RAR	E	ZNE	19 21 28				30									
	SBA	EP	ZNE	19 17 08	U	59	0,01									7,2	
		ES	ZNE	25 12													
		ELQ	ZNE	32 00													
		ELR	ZNE	35 04													
DEC 13	AFI	EP	ZNE	19 36 10													
		S	ZNE	30													

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DEC 13  AFI  EP      Z   19 42 19
             S       ZNE      56
             ET      ZNE   46 00

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 13  21 35 11.4   17.7S 178.1W 562KM  4.6  FIJI
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SJV  EP      Z   21 36 34        3
        AFI  EP      ZNE 21 37 02        7
             ES      ZNE    38 29

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 14  14 39 34.8   14.9S 166.8E  18KM  5.0  NEW HEBRIDES
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SJV  EP      Z   14 42 31       12
        SBA  EP      ZNE 14 50 02       63

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 14  20 27 48.6   26.1S 176.2W 112KM  4.9  S OF FIJI
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      Z   20 30 37       13
             ES      ZNE    32 32
        RAR  E(P)    Z   20 31 12       16

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 15  19 47 13.5   29.1S 177.6W  61KM  5.3  KERMADEC IS
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZNE 19 50 55       16
             ES      ZNE    53 34
             ET      ZNE 20 05 37
        RAR  EP      ZNE 19 51 17       18
             ES      ZNE    54 12
        SBA  EP      ZNE 19 55 59.5     49

DEC 16  AFI  IP      Z   15 43 31
             S       ZNE      51

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 16  20 53 58.3   51.2V 157.7E  24KM  5.5  E KAMCHATKA
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EL      ZNE 21 25 36       70
        SBA  EPKP    ZNE 21 13 04.5     129
             EPP     ZNE    15 26
             ELR     ZNE    53 50

DEC 17  AFI  EP      Z   06 43 30
             S       NE      44 04

DEC 17  CBZ  EP      Z   15 58 55

NO  RAROTONGA  RECORDS  FROM  18TH TO  20TH  DEC

DEC 18  CBZ  EP      Z   01 09 03
             E(S)    Z       59

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 18  06 24 19.7   22.4S 170.8E  34KM  4.8  LOYALTY IS
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SJV  EP      Z   06 26 22        8
        AFI  EP      ZNE 06 28 36       19

DEC 18  AFI  EP      Z   07 16 04
             S       ZNE      25

DEC 18  AFI  EP      ZNE 08 34 00
             E(S)    ZNE    35 02
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DEC 18  AFI  EP      ZNE 14 20 23
             S       ZNE      45

DEC 18  AFI  EP      ZNE 18 16 32
             S       ZNE   17 13

DEC 19  AFI  EP      ZNE 00 20 12
             S       ZNE      33

DEC 19  AFI  EP      Z   21 38 21
             S       ZNE      44
             T       ZNE   40 30

DEC 20  AFI  EP      Z   03 13 14
             S       ZNE      48
             ET      ZNE   15 58

DEC 20  AFI  EP      ZNE 09 55 10
             IS      ZNE      45

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 20  17 07 49.1   15.1S 167.4E 135KM  5.1  NEW HEBRIDES
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      Z   17 12 16       20

DEC 20  AFI  EP      ZNE 17 57 13
             IS      ZNE      32

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 21  02 25 21.6   21.8S  70.0W  33KM  6.3  N CHILE
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 02 37 02.5     75
             EPCP    ZNE      24
             ES      ZNE   46 45
             ESS     ZNE   51 24
             ESSS    ZNE   55 00
             ELQ     ZNE   57 30
             ELR     ZNE 03 01 00
        RAR  EP      Z   02 37 54       82
        CBZ  EP      Z   02 38 19       90
        AFI  EP      ZNE 02 39 02       96
             E       Z       44 48
             ES      ZNE     49 24
             EL      ZNE     56 30
             EL      ZNE 03 09 18

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 21  07 50 34.8   16.4S  72.6W  99KM  5.0  OFF PERU
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        SBA  EP      ZNE 08 02 36       80

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 21  11 42 25.3   21.1S 179.2W 606KM  4.5  FIJI
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        AFI  EP      ZNE 11 44 45       10
             ES      ZNE    46 31

          H  M  S     EPICENTRE   DEPTH  MAG
DEC 21  17 45 54.4   31.7S 179.1W  23KM  5.1  KERMADEC IS
                        H  M  S  DIR DIS LG=A/T  AZ TZ  AN TN  AE TE  MAG
        RAQ  EP      Z   17 46 33        3
        AFI  EP      ZNE 17 50 08       19
             ES      ZE     54 00
        SBA  EP      ZNE 17 54 23.8     17 -0.03                        6.9
             EPCP    ZNE    56 02
             ES      ZNE 18 01 10
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			ESS	ZNE	05 10									
			EL	ZNE	06 06									

NO TIMING ON CAMPBELL ISLAND FROM DEC 22 TO DEC 31

	H M S	EPICENTRE	DEPTH	MAG									
DEC 22	09 31 36,1	21,7S 170,7E	135KM		TIMOR									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
SUV EP	Z 09 33 04			8										
DEC 22 AFI EP	ZNE 18 36 09													
S	ZNE 30													

	H M S	EPICENTRE	DEPTH	MAG									
DEC 22	23 08 58,0	29,9S 177,4W	22KM	5,4	KERMADEC IS									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
RAQ IP	Z 23 09 13,1U			1										
SUV EP	Z 23 11 53			12										
AFI EP	ZNE 23 12 43			17										
S	ZNE 15 35													
RAR EP	ZNE 23 13 01			18										
ES	ZNE 16 05													
SBA EP	ZNE 23 17 45,5			49										
ES	ZNE 25 00													
ELR	ZNE 32 00													

	H M S	EPICENTRE	DEPTH	MAG									
DEC 23	00 56 53,4	16,8S 173,3W	38KM	4,3	TONGA									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
AFI IP	ZNE 00 57 42,5			3										
S	ZNE 58 18													
ET	ZNE 01 00 45													
DEC 23 AFI EP	Z 10 42 01													
ES	NE 54													
DEC 23 AFI EP	Z 13 20 18													
S	ZNE 48													

	H M S	EPICENTRE	DEPTH	MAG									
DEC 23	13 23 15,0	5,2S 151,8E	61KM	5,5	NEW BRITAIN									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
AFI EP	ZNE 13 30 19			37										
EL	ZN 39 42													
SBA EP	ZNE 13 34 42			73										
ES	ZNE 44 08													
DEC 23 AFI EP	ZNE 17 39 42													
S	ZNE 40 03													
DEC 23 AFI E(P)	ZE 19 24 55													

	H M S	EPICENTRE	DEPTH	MAG									
DEC 24	02 24 58,4	21,0S 178,0W	428KM	5,0	FIJI									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
SUV IP	Z 02 26 19,7U			4										
RAQ EP	Z 02 26 55			8										
ES	Z 28 15													
AFI EP	ZNE 02 27 04			9										
ES	ZNE 28 40													
RAR EP	Z 02 28 33			17										
DEC 24 AFI EP	Z 17 50 33													
S	ZNE 51 22													

	H M S	EPICENTRE	DEPTH	MAG									
DEC 24	20 03 10,9	17,4N 61,1W	24KM	6,4	LEEWARD IS									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
AFI E(S)	Z 20 32 04			113										
E=SS	N 39 00													
EL	N 49 06													
EL	Z 55 24													
SBA EPP	ZNE 20 22 57			115										
EPS	ZNE 32 24													
ESS	ZNE 38 33													
ESSS	ZNE 42 38													
ELR	ZNE 58 40													
DEC 24 AFI IP	Z 20 29 13													
S	ZNE 34													

	H M S	EPICENTRE	DEPTH	MAG									
DEC 25	01 23 33,6	5,3S 153,7E	64KM	5,7	NEW IRELAND									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
SUV EP	Z 01 29 33			27										
AFI EP	ZNE 01 30 23			35										
ES	ZNE 35 46													
EL	ZNE 38 20													
RAQ EP	Z 01 30 40			36										
RAR EP	ZNE 01 32 06			48		177	2						8,6	
ES	ZNE 39 02													
SBA EP	ZNE 01 34 58			73	0,54								7,5	
EPP	ZNE 37 02													
ES	ZNE 44 16													
ESS	ZNE 48 40													
ELQ	ZNE 53 42													
ELR	ZNE 57 00													
DEC 25 AFI IP	ZNE 09 57 40	U												
S	ZNE 58 00													

	H M S	EPICENTRE	DEPTH	MAG									
DEC 25	10 41 31,6	21,5S 70,4W	53KM	5,8	N CHILE									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
SBA EP	ZNE 11 53 12,5D			76										
EPP	ZNE 56 24													
ES	ZNE 02 54													
ESS	ZNE 07 50													
ELQ	ZNE 13 40													
ELR	ZNE 17 00													
AFI ES	E 11 05 48			95										
ES	ZNE 07 48													
E=SS	ZNE 12 18													
EL	N 20 06													
EL	ZNE 25 18													
DEC 25 AFI E(P)	Z 12 36 43													

	H M S	EPICENTRE	DEPTH	MAG									
DEC 25	17 14 14,9	37,7S 77,9E	33KM	5,2	MID-INDIAN RISE									
		H M S	DIR	DIS	LG=A/T	AZ	TZ	AN	TN	AE	TE	MAG		
SBA ES	ZNE 17 31 14			53										
ESS	ZNE 34 48													
ELR	ZNE 40 00													
DEC 25 AFI EP	Z 22 35 09													
ES	NE 51													

			H M S	EPICENTRE	DEPTH	MAG								
DEC 26			08 52 42,3	5,1S 153,7E	59KM	5,2	NEW IRELAND							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZE	08 59 34		35								
		ES		ZE	09 04 54										
		E		ZN	07 24										
		EL		ZE	09 18										
	SBA	EP		ZNE	09 04 06		73								
		ES		ZNE	13 35										
		ESS		ZNE	18 06										
		ELR		ZNE	26 45										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 26			14 34 27,8	32,0S 178,0W	33KM	4,7	S OF KERMADEC IS							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP		Z	14 35 08		3								
	AFI	EP		ZNE	14 38 45		19	=1,03							5,1
		ES		NE	42 30										
	RAR	EP		ZNE	14 38 49		19								
		ES		ZNE	42 09										
	SBA	EP		ZNE	14 42 51		46								
		ES		ZNE	49 52										
		ESS		ZNE	53 00										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 26	AFI	EP	18 51 45	Z										
		ES		ZNE	52 22										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			00 27 28,7	54,1S 132,2W	33KM	4,9	S PACIFIC CORDILLERA							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	00 33 49		32								
		EL		ZNE	42 00										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			01 48 10,7	54,8S 132,8W	33KM	4,8	S PACIFIC CORDILLERA							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	ES		ZNE	01 59 50		31								
		ESS		ZNE	02 01 20										
		ELQ		ZNE	02 00										
		ELR		ZNE	03 40										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			04 28 21,3	5,0S 153,7E	130KM	4,9	NEW IRELAND							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	EP		ZNE	04 39 39		73								
		EPCP		ZNE	40 03,5										
		ES		ZNE	48 58										
		ESS		ZNE	54 24										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			06 15 56,4	23,6S 179,8E	506KM	4,5	S OF FIJI							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE	06 18 39		13								
		ES		ZNE	20 40										
		P		Z	17 30										
		S		Z	18 40										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			09 17 55,7	21,2S 68,3W	135KM	6,4	CHILE-BOLIVIA BORDER							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	SBA	IP		ZNE	09 29 31	D	76	0,58							7,4
		EPCP		ZNE	30 10										
		ES		ZNE	39 02										
		ESS		ZNE	44 00										
		ELQ		ZNE	50 00										
		ELR		ZNE	51 50										

	RAR	EP	ZNE	09 30 12		84	0,12							7,0
		E	Z		56									
		E	ZNE	40 33										
		E	ZNE	52 46										
	AFI	EP	Z	09 31 17		97								
		EPP	Z	35 56										
		ES	ZNE	42 40										
		E-SS	ZNE	49 06										
		ESSS	Z	53 00										
		EL	ZN	56 24										
		EL	E	59 18										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			14 39 08,5	3,5S 141,3E	33KM	6,1	NEW GUINEA							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP	Z	14 47 40		47								
		EP	Z		51										
		ESS	N	57 30										
		EL	ZE	15 01 54										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			16 22 48,5	22,3S 174,8W	33KM	6,1	TONGA							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z	16 24 31		7								
		ES	Z	25 55										
	SUV	EP	Z	16 24 44		8								
	AFI	EP	ZNE	16 24 50		9								
		SS	ZNE	26 24										
		ET	ZNE	33 30										
	RAR	EP	ZNE	16 25 54		14								
		ES	ZNE	28 15										
	SBA	EP	ZNE	16 32 28,5		56	0,08							7,2
		ES	ZNE	40 24										
		ELQ	ZNE	46 50										
		ELR	ZNE	48 50										

DEC 27	AFI	EP	ZNE	18 08 10										
		ES	ZNE	09 44										
		ET	ZNE	17 08										
	RAR	EP	ZNE	18 09 14										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			19 26 05,9	21,8S 174,8W	33KM	4,0	TONGA							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP	Z	19 27 47		8								
		ES	Z	29 08										
	AFI	EP	ZNE	19 28 06		8								
		ES	ZNE	29 40										
		ET	ZNE	37 08										

			H M S	EPICENTRE	DEPTH	MAG								
DEC 27			23 58 34,2	16,4S 174,0W	150KM	4,2	TONGA							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	IP	ZNE	23 59 21		U	3							
		S	ZNE		54										
	SUV	P	Z	24 00 27		7								
	RAR	EP	ZNE	24 01 54		14								

			H M S	EPICENTRE	DEPTH	MAG								
DEC 28			06 26 15,8	44,2N 128,8W	33KM	5,4	OFF OREGON							
					H M S	DIR	DIS	LG.A/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES	ZNE	06 46 32		70								
		ESS	E	50 36										
		ESSS	NE	54 06										
		EL	ZN	57 30										

	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 28	07	42	44,5	25,6S	179,7E	544KM	4,3	S OF FIJI								
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE	07	45 34			14							
		ES		ZNE		47 51										
DEC 28	AFI	EP		ZNE	08	25 46										
		S		ZNE		26 07										
DEC 28	AFI	E(P)		Z		17 37 04										
		E(S)		ZNE		38 42										
	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 28	22	11	33,9	44,2N	128,9W	33KM	5,0	OFF OREGON								
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	ES		N	22	32 00			70							
		ESSS		NE		40 12										
		EL		Z		42 54										
	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 29	09	39	08,6	17,5S	178,4W	512KM	3,7	FIJI								
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE	09	40 59			7							
		ES		NE		42 17										
DEC 29	AFI	IP		ZNE	10	18 44,9U										
		S		ZNE		19 06										
		T		ZNE		20 45										
DEC 29	AFI	EP		ZNE	18	19 25										
		S		ZNE		46										
	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 29	20	29	32,2	22,8S	175,3W	30KM	5,3	TONGA								
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP		Z	20	31 10			7							
		ES		Z		32 27										
	SUV	EP		Z	20	31 30			7							
	AFI	EP		ZNE	20	31 39			9							
		S		ZNE		33 21										
		L		ZNE		34 03										
	RAR	EP		ZNE	20	32 44			14							
		ES		ZNE		35 09										
	SBA	EP		ZNE	20	39 10,5			56							
		ES		ZNE		47 00										
		ELQ		ZNE		52 50										
		ELR		ZNE		56 11										
	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 29	22	23	06,0	22,7S	175,2W	33KM	5,1	TONGA								
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	RAO	EP		Z	22	24 41			7							
		ES		Z		26 03										
	AFI	IP		ZNE	22	25 12,5U			9							
		S		ZNE		26 50										
	RAR	EP		ZNE	22	26 17			14							
		ES		ZNE		28 41										
		EL		ZNE		30										
	SBA	EP		ZNE	22	32 47			56							
DEC 30	AFI	EP		Z	02	19 05										
		S		ZNE		26										
DEC 31	AFI	IP		ZNE	07	42 09,8D										
		(S)		NE		43 40										

	H	M	S	EPICENTRE		DEPTH	MAG									
DEC 31	15	05	32,3	7,1S	154,8E	19KM	5,4	SOLOMON IS								
				H	M	S	DIR	DIS	LQwA/T	AZ	TZ	AN	TN	AE	TE	MAG
	AFI	EP		ZNE	15	12 12			34							
		E		NE		21 00										
		EL		ZE		22 36										
DEC 31	AFI	EP		ZNE	15	16 45										
		S		ZNE		17 04										

PUBLICATIONS BY STAFF MEMBERS

During 1967 the following papers by members of the Seismological Observatory staff were published:

S-141 EVISON, F.F.: "The Polymorphic Transition as a possible Earthquake Source".

Vesiac Rept. on Source Mechanism of Shallow Seismic Events. Univ. of Michigan, Ann Arbor. pp. 173-9.

The phase-change hypothesis relates earthquake occurrence to a changing pressure-temperature environment, and hence primarily to vertical convection in the upper mantle and crust, including diastrophic uplift and subsidence. Rapid polymorphic transitions aided by metastability provide a likely source mechanism.

S-142 EVISON, F.F.: "On the Occurrence of Volume Change at the Earthquake Source".

Bull. Seismol. Soc. America 57 (1): 9-25.

In most well-observed earthquakes one direction of first motion of the P wave is strongly dominant over the other. An analysis of 68 earthquakes, each with 100 or more observations, has suggested the following polarity rule: first motions are dominantly compressional for shallow earthquake sources in general, dilatational for shallow sources located beneath ocean trenches, and dilatational for deep sources. This rule applies globally with scattered exceptions. It is inferred that the source mechanism includes a component of volume change not allowed for in the usual shear model; the polarity rule is interpreted on the hypothesis that earthquakes are caused by sudden polymorphic transitions.

S-143 EVISON, F.F.: "Note on the Aseismicity of Antarctica".

N.Z. Jl Geol. Geophys. 10 (2): 479-83.

Compared with the other continents Antarctica is remarkably free from earthquakes, especially in view of the active volcanism and other signs of instability. On the hypothesis that earthquake activity is affected by variations in the thickness of the ice-cap, any future earthquake of even moderate magnitude may be expected to yield useful information about the source mechanism of earthquakes and also about ice-cap dynamics.

S-144 HAMILTON, R.M.: "Mean Magnitude of an Earthquake Sequence".

Bull. Seismol. Soc. Amer. 57 (5): 1115-6.

A reported finding by Lomnitz that the mean magnitude of successive groups of earthquakes in certain sequences remained constant implies a contradiction with other well-observed properties of such sequences. Two New Zealand sequences do not behave as Lomnitz suggests.

S-145 DICKENSON, G.E. and ADAMS, R.D.: "A Statistical Survey of Earthquakes in the Main Seismic Region of New Zealand. Part 3 - Geographical Distribution".

N.Z. Jl Geol. Geophys. 10 (4): 1040-50.

Maps are presented showing contours of frequency of earthquake occurrence in the main seismic region of New Zealand from 1942 to 1961. Shallow, intermediate, and deep earthquakes are considered separately; the deeper earthquakes have a more regular and concentrated distribution, and their highest concentration is to the north-west of that of the shallower shocks. Close relationships between the patterns of seismicity and isostatic gravity anomalies are not apparent.

S-146 HAMILTON, R.M. and EVISON, F.F.: "Earthquakes at Intermediate Depths in South-West New Zealand".

N.Z. Jl Geol. Geophys. 10 (6): 1319-29.

Earthquake activity in the southern seismic region of New Zealand extends to intermediate depths. This has hitherto been suggested on the evidence of isoseismal patterns and seismogram characteristics, and is now confirmed by computation for the Lake Te Anau earthquake of 20 May 1965, for which 45 readings of P, supported by readings of P', pP, sP, and PP, indicate a depth of 103 ± 5 km. This result adds to the reasons for classifying the region as an active margin between the New Zealand continental mass and the Tasman Sea.

S-147 ADAMS, R.D. and DIBBLE, R.R.: "Seismological Studies of the Raoul Island Eruption, 1964".

N.Z. Jl Geol. Geophys. 10 (6): 1348-61.

An eruption of mud and steam at Raoul Island on 1964 November 20, was preceded by a swarm of earthquakes, which started on November 10. Within four hours of the start of the swarm, the frequency of shocks recorded on the island's seismograph had risen to a maximum of over 80 an hour. Volcanic tremor soon appeared, and became continuous by November 12, masking all but the largest earthquakes. Thereafter, both the level of tremor and the frequency of earthquakes declined until by the time of the eruption only 10 - 15 shocks an hour were being recorded. Following the eruption, the island was evacuated for two weeks. For four days after the reoccupation on December 6, three additional seismographs were installed and during this time the earthquakes occurred to the west and south-west of the crater, at distances of 4 - 8 km from it, and at depths of up to 8 km.
The amplitude-frequency relationship does not show such a high proportion of smaller earthquakes as has been reported for some other volcanic swarms, and following an initial preponderance of compressions, the recorded directions of first motion showed roughly equal numbers of compressions and dilatations.

S-148 RANDALL, M.J.: "Fast Programs for Layered Half-Space Problems".

Bull. Seismol. Soc. Amer. 57 (6): 1299-1315.

Knopoff's matrix method for the solution of P-SV problems has been somewhat simplified and modified to take account of oceanic structures. Advantage has been taken of a method of separating the frequency-dependent operations from the matrix multiplications to obtain very fast computer programs for calculating Rayleigh dispersion, crustal reflection functions, and crustal transfer functions. Applications include Rayleigh dispersion inversion, Q_R inversion, crustal investigations using pP, crustal transfer corrections to amplitude observations, and the construction of synthetic seismograms for investigation of the source time-function.

EIBY, G.A. "Earthquakes".

Frederick Muller, London. 2nd ed. 207 pp. illus.

An extensively revised edition of the book first published in 1957, with additional chapters discussing seismic zoning, the seismological implications of nuclear explosions, and large earth-

quakes in the period 1957-67. Unsatisfactory diagrams have been replaced, and more photographs included.

EVISON, F.F.: "Nuclear Explosions and natural Earthquakes". N.Z. Engng 22: 33-4.

E-144 "New Zealand Seismological Report 1963".

EXCHANGE AGREEMENTS

The Seismological Observatory issues the following series of publications:

1. E-bulletins. This consists of the annual "New Zealand Seismological Reports", containing a detailed summary of all standard measurements made at stations of the N.Z. network, lists of epicentres, felt intensity data, and a brief account of the principal earthquakes of the year.

2. S-bulletins. These are mostly reprints of papers by members of the Observatory staff, but occasionally it has included material not published elsewhere, such as the Eiby-Muir near earthquake tables, and a descriptive account of the Observatory and its work issued to conference delegates.

3. A-bulletins. These are cyclostyled sheets giving preliminary readings from Wellington and a small selection of well-distributed outstations. They are issued fortnightly to observatories and data centres needing rapid access to New Zealand readings, and are not intended to have a wide circulation.

The Observatory will be pleased to consider exchange agreements for any of this material. Stations requesting the A-series normally receive S and E-series as well, and those requesting the E-series also receive the S-series. This arrangement facilitates mailing procedures.

LIST OF MAPS

(in pocket inside back cover)

1. Epicentres of Earthquakes in 1967 having focal depths less than 40 km.

2. Epicentres of Earthquakes in 1967 having focal depths of 40 km or more.