

New Zealand Department of Scientific and Industrial Research
GEOPHYSICS DIVISION

NEW ZEALAND

SEISMOLOGICAL
REPORT

1962

SEISMOLOGICAL OBSERVATORY BULLETIN
E-143



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NEW ZEALAND

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

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INTRODUCTION

The New Zealand Seismological Report for 1962 follows the style of its predecessors. It is intended to summarise all standard measurements carried out at the Seismological Observatory, Wellington and its out-stations, and to provide an account of New Zealand earthquakes during the period in a form that will be of use and interest to people other than professional seismologists. The report therefore includes a descriptive account of the most important seismic events of the year, and maps showing their magnitude, distribution, and felt effects.

The greater part of the information for 1963 and 1964 is now available at the Observatory, and advance copies of standard readings have been forwarded to international data centres.

Reprints of research papers by members of the staff, and material not regularly included in this report are issued as a series of S-Bulletins. Abstracts of those issued in 1962 are listed in the back of this report. The Observatory is prepared to consider additional arrangements to exchange material of this kind with other organisations.

SCIENTIFIC STAFF 1962WELLINGTON

Superintendent: F.F. Evison M.A., B.Sc.(N.Z.); Ph.D.(Lond.); D.I.C.
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 A.M. Maher; R.C. Martindale; R.H. Orr.

APIA

Observer-in-Charge: J.G. Keys (until November)
 P.J. Milne B.Sc. (from November)
 Observer/Technician: I. Anapu

RAOUL ISLAND

Observer: N.L. Caine

HALLETT

Observer: R.R. Exley

SCOTT BASE

Observer: A.C. Langston

PRINCIPAL N.Z. EARTHQUAKES IN 1962

More epicentres were determined in 1962 than in previous years. This is the result of a small increase in the number of earthquakes, mainly but not wholly made up of aftershocks of the four largest shallow shocks and of an increase in the number of earthquakes being reported felt by the now greatly reorganised network of felt observers. Although there were no large earthquakes, the year was marked by an unusually wide selection of seismic events.

The largest earthquake (Epicentre 62/423, Map 4) occurred on October 15. It had a magnitude of 6.1, and a shallow origin off the coast of southern Westland to the north of Bruce Bay. Damage was confined to the fall of isolated chimney pots in the Fox Glacier - Bruce Bay area, and of goods from shelves at Fox Glacier, Lake Tekapo and Mount Cook. More spectacular effects were to be seen in the Southern Alps. The Chief Ranger at Mt. Cook, Mr. M. Burke, reports that "Magnificent avalanches fell from all glaciers and ice shelves in the Hooker and Tasman valleys, and the faces of both Mt. Cook and Mt. Sefton were almost completely obscured by billowing clouds of ice-dust and snow. Tourists on the Tasman Glacier trip were treated to a most impressive sight, as large avalanches fell from every peak on the main divide from Mt. Cook to the Minarets. I was a member of a party of four Rangers returning from the second Hooker swing bridge, who had a first class view of the avalanches on the slope of Sefton and of numerous rockfalls on the slopes of Mt. Wakefield above the track. Some rock fell quite close to the track in places." This account is confirmed by Mr. M. Barrie, a climber who was in the vicinity of the Ball Hut. He reports that his party was greatly delayed on its return journey to Husky Camp by the rock that had been shaken down on to the road. He further points out that falls were not restricted to moraine and other loose material, but also affected "virgin rock". It appears likely that felt intensities approached MM 7.

On May 10, an earthquake occurred which was felt over much of the South Island and at a few places in the North Island (Epicentre 62/165, Map 3). This was the first and largest of a sequence of more than 80 earthquakes centred at sea about 20 miles west of Westport. These earthquakes are the subject of a paper by Adams and Le Fort (N.Z.J. Geol. and Geophys., Vol 6 (4) pp 487-509, August 1963). The main shock had a magnitude of 5.9, and the largest aftershock, on May 17, a magnitude of 5.6. These shocks caused more damage than any other N.Z. earthquake since those in the Wairarapa in 1942, by reason of their shallow foci and their closeness to the town. Estimates made by the Earthquake and War Damage Commission value the damage at £125,000. Some 2,500 chimneys were damaged, and in Westport brick and plaster work also suffered. Electricity and water supplies were also disrupted. The area of chimney damage extended from Granity to Hokitika, a distance of about 90 miles. There were no casualties.

On the same day as the Westport earthquake, a shock of magnitude 5.7 took place on the Wairarapa coast (Epicentre 62/175). No intensities above MM 5 were reported, probably because the nearest parts of the coast are thinly populated. The position of this shock suggests a relationship to the aftershocks of the magnitude 6.3 earthquake of 1961 December 27,

(Epicentre 61/394), which continued until the middle of January and possibly for longer. The earthquake of May 10 was itself followed by a small sequence of aftershocks.

An earthquake near Aria on January 23 (Epicentre 62/40, Map 5) also caused some damage. This shallow earthquake of magnitude 5.5 is of interest because it lies further to the north than the majority of shallow shocks west of the N.Z. Sub-Crustal Rift. The felt area included Auckland city and extended southwards to Palmerston North and Shannon; but only isolated reports were received from places east of a line through Tauranga, Taupo, and Taihape. Chimneys fell at Aria and Mahoenui, and a chimney at Benneydale was cracked.

A swarm of small earthquakes in the Te Puke area began in mid September and continued until early October, the largest shock (Epicentre 62/394) had a magnitude of only 4.5, but the origin was shallow, and intensities at Te Puke, near the epicentre, were great enough to damage 14 chimneys and to move goods from shelves. Isolated cases of chimney damage were also reported from Tauranga, Mt. Manganui, and Omoheroa. The felt area was limited to a small part of the Bay of Plenty near the coast between Te Puke and Edgecumbe.

Other important large shallow shocks took place on April 17 (Epicentre 62/137), July 28 (Epicentre 62/304), and December 23 (Epicentre 62/485). These had magnitudes of 5.7, 5.4 and 5.3 respectively. The first of these epicentres is 30 miles off the north Canterbury coast, on the northern flank of the Chatham Rise. The felt area extended over the whole of the South Island north of Greymouth and Temuka, and over the southern part of the North Island. The second shock is in the northern part of Fiordland, and was fairly generally felt in Central Otago. The epicentre lies a little to the north of the other Fiordland shocks during the year, which show an unusual concentration in the neighbourhood of the magnitude 7.0 earthquake of 1960 (Epicentre 60/108). The third shock was centred about 40 miles east of East Cape, and was felt only at Tokomaru Bay.

There were three other shallow shocks of magnitude 5 or more. On January 10, a shock in the southern Ruahine Range (Epicentre 62/12) was felt over most of southern Taranski and the Manawatu. Somewhat surprisingly, there was only one report from the Hawkes Bay side of the range, intensity MM 3 at Dannevirke. A shock of magnitude 5.0 on March 10, centred in the East Cape Peninsula (Epicentre 62/89) was reported only from Te Puia, and one on the following day, with an epicentre 20 miles west of Lake Taupo, (Epicentre 62/90) only from Wairoa and Gisborne. Shallow shocks of this magnitude could be expected to cause minor damage if they occurred close to a settlement.

North eastwards from the Bay of Plenty, there has been the usual vigorous activity extending towards the Kermadec Islands. Location and coverage of the shocks in this region is not as good as for shocks within New Zealand itself, but many of them are large. There have been several instances of a tendency for shocks in this region having a wide range of depths to form groups close in epicentre and time. An example is given by the shocks between 33°S and 34.5°S and about 178°W during February, which range in depth from 537 km. to shallow. Another group in the same area occurs at the end of March.

The cluster of four shallow shocks with magnitudes greater than 5 near 38.5°S and 179°W , on the edge of the Hikurangi Trench (See Map 1), is another example of the tendency of earthquakes to form a pattern in time and space, rather than to occur as random events.

Attention should be drawn to the small shallow shock at 46°S , 169°E on April 18 (Epicentre 62/141). This earthquake was felt at Quarry Hills, Waikawa, and Balclutha, and had a magnitude of 4.2. A shock of magnitude 4.7 from the same epicentre (within the limits of error) was recorded in 1957 (Epicentre 57/160). This earlier shock was felt in Dunedin. Earthquakes in this area must be carefully considered in any discussion of seismic risk in eastern Otago.

Another epicentre with an unusual position (62/351) lies east of Chatham and Pitt Islands, and marks the eastern extremity of the Chatham Rise. Earthquakes on the northern flank of the Rise are common (for example, epicentre 62/157), but no recent shock has been placed in this position. This is more likely to have been a result of less efficient recording in the past than of real absence of shocks.

No unusually deep earthquakes occurred during the year. The deepest entries in the epicentre list (Epicentres 62/28 and 62/61) lie far to the north-east of the country, where shocks of 450-550 km. depth are not uncommon. Epicentres 62/266 and 62/304 lie at the southern end of the Sub-Crustal Rift. The former earthquake had a depth of 190 km., and a magnitude of 5.4; the latter was larger (magnitude 5.7) and shallower (85 km.), and was widely felt (Map 6). Both are among the larger shocks defining this part of the zone of deep-focus activity. Ten other shocks with depths between 150 and 350 km and magnitudes between 5 and 6 also lie within the Rift, extending southwards from the Bay of Plenty.

STATIONS OF THE NEW ZEALAND NETWORK

The number of changes to the recording network in 1962 has been greater than in any previous year. New stations were installed at Tarata in May, and at Wairakei in August. A short-period vertical-component Willmore instrument was added to the 3-component set of Galitzins at Roxburgh in June, and the Jones instrument at Tongariro was replaced by a standard Wood-Anderson in October.

In May, Wellington became a station of the World-Wide Standard Seismograph Network sponsored by the United States Coast and Geodetic Survey, and the Milne-Shaw and Galitzin-Will instruments were no longer operated. Since the standard equipment includes a set of short-period Benioff instruments, it was decided to halve the magnification of the Wood-Andersons, whose main use is now for magnitude determination.

The station at Afiamalu, in Samoa, also became a station of the World-Wide Standard Network in September.

The new station at Tarata, 9 miles east of Inglewood, Taranaki, replaces the station at New Plymouth which had to be discontinued in 1958. It is equipped with a Willmore short-period vertical-component seismometer.

The instrument at Wairakei is primarily intended to give information about an area from which geothermal steam is being extracted for electric power generation, but is expected to contribute useful additional data to other local earthquake studies. Owing to the nature of the site, the magnification has had to be kept low.

The Jones instrument at Tongariro, which has now been replaced by a standard Wood-Anderson torsion Seismometer was originally designed as a prospecting geophone for use in Persia during the pioneering era of exploration geophysics. Its chief disadvantages for local earthquake recording were that neither period nor magnification were very stable, and that the zero position was temperature sensitive. Nevertheless, it has contributed some ten years of useful arrival-time data to New Zealand seismology and earned an honourable retirement. Vertical

component readings for this part of the country are obtained from the Geophysical Survey's volcanological station at Chateau.

The installation of a short-period vertical component instrument at Roxburgh has already done much to improve the location of epicentres in the very active Fiordland region of the South Island. Further stations in the far south of the country are planned.

The network of stations under the control of the Seismological Observatory, Wellington, may be considered to consist of two parts; first, a set of short-period instruments distributed widely over the country, and intended to yield records of earthquakes originating within New Zealand; and secondly, teleseismic instruments 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.

Instrumental constants, standard abbreviations of the station names (used in tabular sections of this report), geographical positions, and similar information are listed below, in order of increasing southern latitude.

APIA (AA)

Latitude: $13^{\circ}48'.4$ S
 Longitude: $171^{\circ}46'.5$ W
 Height above mean sea level: 2 metres, 6 ft.
 Geocentric direction cosines:
 a - 0.961 484
 b - 0.138 980
 c - 0.237 132

Lithological foundation: Coral Sand on Recent and Pleistocene Basalt.

Instrument	Compt.	Period	Damping	Magnification	
Wood-Anderson	N	0.80 sec	15:1	2050	Nominal
Wood-Anderson	E	0.80 sec	15:1	2050	

AFIAMILU (AF)

Latitude: $13^{\circ}54'.6$ S
 Longitude: $171^{\circ}46'.6$ W
 Height above mean sea level: 706 metres, 2315 ft
 Geocentric direction cosines:
 a - 0.961 070
 b - 0.138 883
 c - 0.238 862

Lithological foundation: Basaltic lava flows.

Instrument	Compt.	To	Tg	V	
Benioff	Z	1 sec	0.2 sec	72,000 until September	
				70	
				765	
Benioff	N	1	70		
Benioff	Z	1.0	0.75	20,000 from September	
	N	1.0	0.75	30,000	
	E	1.0	0.75	30,000	
Press-Ewing	Z	30	100	750	
	N	30	100	750	
	E	30	100	750	

SUVA (SU)

Latitude: $18^{\circ}09'. S$
 Longitude: $178^{\circ}27'. E$
 Height above mean sea level: 6 metres, 20 ft
 Geocentric direction cosines:
 a - 0.950 515
 b + 0.025 720
 c - 0.309 613

Lithological foundation: Hard, fine-grained calcareous marl.

Instrument	Compt.	Period	Damping	Magnification	Date
Milne-Shaw	N	12 sec	20:1	250	12/57

RAOUL (RL)

Latitude: $29^{\circ}15'.1$ S
 Longitude: $177^{\circ}55'.1$ W
 Height above mean sea level: 110 metres, 350 ft
 Geocentric direction cosines:
 a - 0.873 304
 b - 0.031 743
 c - 0.486 140

Lithological Foundation: Volcanic rock.

Instrument	Component	Period
Willmore	Z	To = 0.8 sec Tg = 0.25 sec

ONERAHI (ON)

Latitude: $35^{\circ}46'.5$ S
 Longitude: $174^{\circ}24'.7$ E
 Height above mean sea level: 33 metres, 110 ft
 Geocentric direction cosines:
 a - 0.809 249
 b + 0.079 894
 c - 0.582 008

Lithological Foundation: Basalt.

Instrument	Component	Period	Damping	Magnification	Date
Wood-Anderson	E	0.8 sec	critical	2,800	22/5/61

AUCKLAND (AK)

Latitude: $36^{\circ}51'.7$ S
 Longitude: $174^{\circ}46'.7$ E
 Height above mean sea level: 76 metres, 250 ft
 Geocentric direction cosines:
 a - 0.798 694
 b + 0.072 992
 c - 0.597 293

Lithological Foundation: Volcanic beds on Tertiary sandstone and mudstone.

Instrument	Component	Period	Damping	Magnification	
Milne-Shaw	N	10 sec	20:1	150	Nominal

KARAPIRO (KP)

Latitude: $37^{\circ}55'.6$ S
 Longitude: $175^{\circ}32'.3$ E
 Height above mean sea level: 61 metres, 200 ft
 Geocentric direction cosines:
 a - 0.788 405
 b + 0.061 519
 c - 0.612 072

Lithological Foundation: Greywacke.

Instrument	Component	Period	Damping	Magnification	Date
Willmore	Z	0.8 sec	Critical		8/59

WAIRAKEI (WK)

Latitude: $38^{\circ}37'.9$ S
 Longitude: $176^{\circ}06'.2$ E
 Height above mean sea level: 350 metres
 Geocentric direction cosines:
 a - 781 415
 b + 053 234
 c - 621 736

Lithological Foundation: Pumice breccia.

Instrument	Component	To	Tg	V
Willmore	Z	1 sec	0.25 sec	300 (nominal)

TUAI (TU)

Latitude: $38^{\circ}48'.4$ S
 Longitude: $177^{\circ}09'.1$ E
 Height above mean sea level: 292 metres, 960 ft
 Geocentric direction cosines:
 a - 0.780 359
 b + 0.038 825
 c - 0.624 126

Lithological Foundation: Thick Tertiary sandstone and mudstone.

Instrument	Component	Period	Damping	Magnification	Date
Willmore	Z	To = 1 sec	Tg = $\frac{1}{4}$ sec	3500	7/61

TARATA (TA)

Latitude: $39^{\circ}11'.1$ S
 Longitude: $174^{\circ}22'.8$ E
 Height above mean sea level: 130 metres, 400 ft
 Geocentric direction cosines:
 a - 773 456
 b + 076 110
 c - 629 263

Lithological Foundation: Pliocene mudstone.

Instrument	Component	To	Tg	V
Willmore	Z	1 sec	0.25 sec	3,000

CHATEAU (CT)

This instrument is under the control of the Geophysical Survey, Geophysics Division, D.S.I.R. and is operated primarily for volcanological research. Seismograms are read by the Seismological Observatory, Wellington, and the readings of earthquakes used to supplement those of the Tongariro station.

Latitude: $39^{\circ}12'.1$ S
 Longitude: $175^{\circ}32'.6$ E
 Height above mean sea level: 1135 metres

Lithological Foundation: Volcanic ash and lava.

Instrument	Component	To	Tg	Magnification
Willmore	Z	1 sec	0.25 sec	25,000

TONGARIRO (TO)

Latitude: $39^{\circ}12'.2$ S
 Longitude: $175^{\circ}32'.3$ E
 Height above mean sea level: 1131 metres, 3710 ft
 Geocentric direction cosines:
 a - 0.774 637
 b + 0.060 444
 c - 0.629 512

Lithological Foundation: Volcanic ash and lava on Tertiary sandstone and mudstone.

Instrument	Component	Period	Damping	Magnification
Jones	Z	0.5 sec	10:1	11,000
Wood-Anderson	NW - SE	0.8 sec	Critical	2,800

until Oct. 30
from Nov. 1

BUNNYTHORPE (BT)

Latitude: $40^{\circ}17'.0$ S
 Longitude: $175^{\circ}38'.1$ E
 Height above mean sea level: 60 metres, 197 ft
 Geocentric direction cosines:
 a - 0.762 783
 b + 0.058 224
 c - 0.644 028

Lithological Foundation: Gravels, silts and sands

Instrument	Component	Period	Damping	Magnification
Imamura	NE(X)	8 sec	5:1	2
	NW(Y)	8	5:1	2
	Z	2	5:1	2

COBB RIVER (CB)

Latitude: $41^{\circ}05'.2$ S
 Longitude: $172^{\circ}44'.0$ E
 Height above mean sea level: 213 metres, 700 ft
 Geocentric direction cosines:
 a - 0.749 836
 b + 0.095 613
 c - 0.654 679

Lithological Foundation: Schist

Instrument	Component	Period	Damping	Magnification	Date
Wood-Anderson	E	0.8 sec	Critical	2,800	2/60

WELLINGTON (WN)

Latitude: $41^{\circ}17'.2$ S
 Longitude: $174^{\circ}46'.0$ E
 Height above mean sea level: 122 metres, 400 ft
 Geocentric direction cosines:
 a - 0.750 478
 b + 0.068 739
 c - 0.657 311

Lithological Foundation: Greywacke

Instrument	Component	Period	Damping	Magnification
Milne-Shaw	N	12 sec	30:1	250
Galitzin-Wilip	Z	To = 10.6	Critical	600
		Tg = 10		Until May 15

Instrument	Component	To	Tg	V	
Willmore	Z	1.0	sec 0.25 sec	6,000	Until May 15
	N	0.8		2,800	
Wood-Anderson	E	0.8		2,800	
	Z	1.0	0.75	6,250	After May 15
Benioff	N	1.0	0.75	6,250	
	E	1.0	0.75	6,250	
Press-Ewing	Z	30	100	750	
	N	30	100	750	
Willmore	E	30	100	750	
	Z	1.0	0.25	6,000	
Wood-Anderson	N	0.8		1,400	
	E	0.8		1,400	
Imamura	Z	1		1	
	N	4		1	
	E	4		1	

KAIMATA (KM)

Latitude: $42^{\circ}31'.4$ S
 Longitude: $171^{\circ}24'.6$ E
 Height above mean sea level: 70 metres, 230 ft
 Geocentric direction cosines: a - 0.730 977
 b + 0.110 420
 c - 0.673 410

Lithological Foundation: Moraine and alluvium over Tertiary sandstone and mudstone.

Instrument	Component	Period	Damping	Magnification	Date
Wood-Anderson	NE(X)	0.8 sec	Critical	2,800	2/60

GEEBIES PASS (GP)

Latitude: $43^{\circ}41'.7$ S
 Longitude: $172^{\circ}38'.8$ E
 Height above mean sea level: 225 metres, 740 ft
 Geocentric direction cosines: a - 0.719 385
 b + 0.092 835
 c - 0.688 380

Lithological Foundation: Rhyolite

Instrument	Component	Period	Damping	Magnification	Date
Wood-Anderson	N	0.8	Critical	2,800	9/57

ROXBURGH (RX)

Latitude: $45^{\circ}28'.5$ S
 Longitude: $165^{\circ}18'.9$ E
 Height above mean sea level: 106 metres, 345 ft
 Geocentric direction cosines: a - 0.691 422
 b + 0.130 458
 c - 0.710 576

Lithological Foundation: Chlorite schist

Instrument	Component	Period	Damping	Magnification	
Galitzin	Z	To = Tg = 13 sec	Critical	450	
	N	24	Critical	300	
	E	24	Critical	300	
Willmore	Z	To = 1 sec	Tg = 0.25 sec	10,000	

HALLETT (HT)

Latitude: $72^{\circ}18'.8$ S
 Longitude: $170^{\circ}12'.5$ E
 Height above mean sea level: 3 metres, 10 ft
 Geocentric direction cosines: a - 0.301 224
 b + 0.051 985
 c - 0.952 135

Lithological Foundation: Frozen gravel spit

Instrument	Component	To	Tg	Magnification	
Willmore	Z	1	2	1,200	Nominal
Press-Ewing	Z	15	50	1,200	
	N	15	75	1,200	
	E	15	75	1,200	

SCOTT BASE (SB)

Latitude: $77^{\circ}51'.0$ S
 Longitude: $166^{\circ}48'.0$ E
 Height above mean sea level: 33 metres, 100 ft
 Geocentric direction cosines: a - 0.206 204
 b + 0.048 510
 c - 0.977 306

Lithological Foundation: Frozen basaltic debris resting on lava flows.

Instrument	Component	To	Tg	Magnification	
Benioff	Z	1.0	sec 25 sec	1,000	Nominal
	N	1.0		10	
	E	1.0		25	
	Z	1.0	0.2	100,000	Nominal
	N	1.0	0.2		
	E	1.0	0.2		

TIMING ARRANGEMENTS

Radio time-signals originating in the New Zealand Time Service of the DSIR are broadcast 15 times daily by station 2YA of the New Zealand Broadcasting Service. These signals are automatically impressed on the records at all stations within New Zealand, except Auckland, Bunnythorpe, and Wellington, by an arrangement that has been described by B.H. Olsson (N.Z. Journal of Science and Technology, Vol 37B pp 115-8, 1955 Sept.) At Wellington, the timing is derived directly from the Time Service, which is situated in the same building as the seismographs. At the other stations the operator records several signals a day by depressing a hand-key when the signal is heard. At Suva, Raoul Island, Apia, Afiamalu and the Antarctic stations similar methods are in use. The minute marks at the out-stations are provided either by an electric pendulum clock of the Synchronome type, a quartz crystal clock, or a marine chronometer fitted with electric contacts.

STATION READINGS

The station readings are so arranged that data for the stations within New Zealand and for Suva are given in a single chronological list, and other stations are listed independently. This is partly a result of Geographical affinity and partly one of administrative convenience. It is not possible to delay epicentre determination until records from the remoter stations reach Wellington.

All times are given in U.T.; that is, the civil time of the Greenwich meridian, beginning at midnight. New Zealand Standard Time is 12 hours ahead of U.T.

When the horizontal components at a recording station are not oriented north-and-south or east-and-west, the directions are designated X and Y, and the corresponding bearings listed with the station constants in the section 'Stations of the N.Z. Network'.

The small letters following the time of 'impetus' phase indicate the direction of initial movement. u indicates an upwards ground movement, d a downwards one, n, s, e and w towards north, south, east and west respectively; x and y are horizontal movements as explained above; f is a movement offosite to x, and j a movement opposite to y.

Amplitudes are ground amplitudes given in microns (1 micron = 10^{-6} metre), except for the Antarctic Stations, Samoa, and Raoul Island, where the amplitudes are trace amplitudes, given in millimetres, read in the manner explained at the beginning of each section. Periods are in seconds.

Magnitudes for local earthquakes are a means of the indications of the Wood-Anderson stations of the network. For distant earthquakes, the values given are the unified magnitude m, determined at the station and from the wave opposite which the value appears, by the methods of Gutenberg and Richter, 1956 (Annali di Geofisica Vol 9, p. 1). Both surface waves and body waves are used.

The accuracy of local earthquake epicentres is indicated by a letter in brackets following the attribution 'N2'.

- (A) Epicentres are not in error by more than 5 miles, or 8 km.
(B) " " " " " " " " " " " " 10 " " 16 "
(C) " " " " " " " " " " " " 15 " " 24 "
(D) " " more uncertain.

The low accuracy of (D) epicentres generally results from the small magnitude of the shock, or from lack of recording stations in certain azimuths.

In indicating focal depth, a distinction is made between shallow earthquakes (S), whose records show clear crustal phases, and normal earthquakes (N), which probably originate near the base of the crust.

NEW ZEALAND STATIONS AND SUVA

This section does not include readings of New Zealand earthquakes whose magnitudes are less than 5.0; but epicentres have been determined for all such shocks above magnitude 4.0, and for any smaller shocks that have been reported felt. These epicentres, focal depths, and origin times are listed in a separate section of the Report.

Throughout this section, the amplitudes given are those of the actual ground motion, not the deflection of the trace. They are expressed in microns.

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 1	KP	P	Z 02 54 05				
	Epicentre		02 41 06.0	52 .3N	177 .9E	261km	USCGS
	1	KP	P	Z 07 02 54			
	Epicentre		06 49 57.9	51 .9N	177 .8E	59km	USCGS
	1	KP	(P)	Z 12 19 10			
	CT	eP	Z 12 19 20				
	WN	P	Z 12 19 41				
	GP	eP	N 12 20 11				
		eS	N 23 30				
	SU	eL	N 12 22				
	Epicentre		12 15 51.2	27 .1S	175 .4W	48km	USCGS
	1	KP	P	Z 15 34 53			
	CT	P	Z 15 35 09				
	Epicentre		15 31 10.5	22 .3S	171 .6E	83km	USCGS
	1	KP	P	Z 23 53 20			
	Epicentre		23 40 20.3	52 .4N	177 .7E	27km	USCGS
	2	SU	eL	N 05 56 $\frac{1}{2}$			
	Epicentre		05 52 45.1	20 .1S	175 .1W	33km	USCGS
	2	SU	eP	N 11 49 44			
		eS	N 51 32				
		eL	N 52.0				
	KP	eP	Z 11 51 29 $\frac{1}{2}$				
		i	Z 34				
	CT	P	Z 11 52 00				
	WN	e	Z 11 56.1				
		eL	Z 57.9				
	RX	eL	NE 11 59				
		eL	Z 12 00				
	Epicentre		11 47 31.0	21 .8S	169 .8E	56km	USCGS
	2	KP	P	Z 19 13 21			
	Epicentre		19 03 06.5	19.3N	145 .3E	178km	USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 2	KP	P	Z 23 09 24				
ON	1P	E	Z 23 09 26				
eS		E	10 16				
CT	P	Z	Z 23 09 34				
e	Z		37				
e(S*)	Z		10 53				
WN	eP	Z	Z 23 09 59				5.8
e	N		10 12				
e	E		16				
e	NE		26				
S	ZNE		11 18				
i(S*)	ZE		53				
CB	eP	E	Z 23 10 10				5.3
eS		E	11 38				
KM	eP	X	Z 23 10 40				5.9
eS	X		12 17				
e	X		36				
GP	eP	N	Z 23 10 41				6.3
eS	N		12 21				
e	N		42				
RX	eL	N	Z 23 16				
Epicentre			23 08 17	35.4S 180.0 N NZ(C) 5.7 Mundaring, Charters Towers, Brisbane, Canberra, Apia, Byrd, and Mawson readings used to determine epicentre.			
3	SU	eL	N 00 52½				
3	KP	eP	Z 02 09 00				
SU	eS	N	02 09 21				
Epicentre			02 05 12.3	22.2S 168.7E 118km	USCGS		
3	SU	eP	N 06 51 57				
S		S	54 14				
e	N		57.9				
KP	eP	Z	Z 06 53 44				
e	Z		50				
S	Z		57 20				
CT	eP	Z	Z 06 53 58				
e	Z		54 14				
S	Z		57 44				
WN	eP	Z	Z 06 54 20				
eL	Z		07 00				
RX	eL	NE	Z 07 03				
Epicentre			06 49 50.9	21.7S 170.0E 120km	USCGS		
3	SU	eL	N 11 25.1				
KP	P	Z	Z 11 25 19				
CT	P	Z	Z 11 25 28				
S	Z		29 10				
Epicentre			11 20 53.5	20.6S 174.4W 32km	USCGS		
3	KP	eP	Z 12 41 55				
1		Z	42 50				
3	KP	P	Z 18 06 01				
Epicentre			17 53 05.3	52.2N 177.5E 68km	USCGS		
3	KP	P	Z 23 54 27				
CT	eP	Z	Z 23 54 43				
WN	eP	Z	Z 23 55.1				
e	Z		58.9				
eL	Z		00 00				
GP	eP	N	Z 23 55 24				
RX	eL	NE	Z 00 00.1				
eL	Z		03				
Epicentre			23 50 28.8	21.5S 169.9E 75km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 4	KP	P	Z 04 27 57				
ON	1P	E	Z 28 37				
eS		E	04 16 01.7	35.1N 138.9E 178km	USCGS		
CT	eP	Z	Z 04 47 52				
eS		N	48 07				
SU		N	04 47 55				
eL		N	05 05				
RX	eS	N	Z 04 58 33				
eL		N	05 15				
WN	eL	Z	Z 05 16				
Epicentre			04 35 42.6	33.9N 135.2E 56km	USCGS	6	
4	KP	P	Z 07 43 41				
Epicentre			07 34 44.4	5.0S 130.4E 222km	USCGS		
4	CT	P	Z 20 12 51½				
e	Z		13 00				
Epicentre			20 00 54.4	1.6S 99.6E 59km	USCGS		
4	KP	eP	Z 21 37 03				
CT	P	Z	Z 21 37 08				
Epicentre			21 24 54.5	24.6N 121.9E 38km	USCGS		
5	SU	P	N 00 24 40				
ON	eP	E	Z 00 28 28				
eS		E	32 40				
eL		E	34½				
KP	P	Z	Z 00 28 41				
CT	eP	Z	Z 00 28 59				
e	PcP	Z	32 47				
WN	e	Z	Z 00 30.2				
e	Z		35.1				
eL	Z		37				
M	Z		41				
RX	eS	NE	Z 00 35 15				
eLq	E		37½				
M	NE		40½				
Epicentre			00 23 32.1	15.5S 177.7W 24km	USCGS	6½-1	
5	SU	eP	N 04 18 26				
S		N	19 23				
L		N	50				
5	SU	S	N 04 41 33				
L		N	58				
5	SU	P	N 08 10 19				
1		N	11 36				
ON	eP	E	Z 12 17				
eL		E	21				
KP	eP	Z	Z 08 13 26				
e	Z		28				
CT	P	Z	Z 08 13 38				
WN	P	Z	Z 08 13 56				
eL	Z		21½				
M	Z		26				
CB	eP	E	Z 08 14 04				
GP	eP	N	Z 08 14 27				
RX	eL	NE	Z 08 24				
eL	Z		27				
M	ZNE		29½				
Epicentre			08 08 07.5	15.5S 172.5W 60km	USCGS		
5	SU	eP	N 11 54 21				
eS		N	56 31				

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 5	ON	eP	E 11 56 19				
KP	P	Z	11 56 39				
CT	eP	Z	11 56 51				
Epicentre			11 51 35.4	15.1S	167.6E	133km	USCGS
5 CT	eP	Z	14 13 41				
e	Z		47				
KP	P	Z	14 13 50				
e	Z		44				
RX	eL	NE	14 26				
Epicentre			14 01 41.7	1.6S	100.0E	25km	USCGS
5 SU	L	N	14 11				
6 SU	eL	N	07 16 40				
7 KP	eP	Z	01 43 31				
Epicentre			01 30 34.5	52.0N	177.8E	55km	USCGS
8 RX	eLq	N	01 52				
eLr	ZNE		59				
WN	eL	Z	02 00				
M	Z		06				
Epicentre			01 00 24.2	18.5N	70.5W	63km	USCGS 61-71
8 SU	eP	N	05 45 00				
IS	N		46 25				
i	N		47 00				
KP	eP	Z	05 46 31				
i	Z		34				
CT	eP	Z	05 46 41				
e	Z		54				
e	Z		49 27				
es	Z		41				
WN	eP	Z	05 47 05				
e	Z		14				
es	NE		50 08				
i	ZNE		13				
CB	es	E	05 50 25				
KM	es	X	05 51 01				
Epicentre			05 43 02.2	24.2S	177.7W	133km	USCGS
8 KP	eP	Z	17 10 52				
e	Z		57				
CT	eP	Z	17 11 08				
e	Z		13				
e	Z		22				
Epicentre			17 03 18.9	6.4S	147.3E	104km	USCGS
9 KP	P	Z	12 53 24				
pP	Z		36				
GT	e(P)	Z	12 53 39				
WN	eP	ZN	12 53 47				
eL	Z		13 24				
Epicentre			12 40 49.3	42.9N	144.8E	78km	USCGS
9 KP	eP	Z	15 04 16				
Epicentre			14 53 13.3	24.5N	143.1E	26km	USCGS
9 ON	eP	E	19 58 39				4.4
KP	P	Z	19 58 48				
CT	P	Z	19 58 58				
es	Z		20 00 18				
WN	eP	Z	19 59 22				5.3
S	Z		20 01 02				
GP	e	N	20 02 03				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 9		es	N 19 57 07				
Epicentre				33S 179 $\frac{1}{2}$ W	N?		NZ(D) 5.0
				Charters Towers readings used to determine epicentre			
9 KP	eP	Z	22 07 13				
Epicentre				21 57 28.8	13.0N	147.2E	57km USCGS
9 KP	P	Z	23 59 14				
Epicentre				23 55 49.2	22.2S	179.5W	603km USCGS
10 RX	eL	NE	13 24				
eL	Z		25				
10 CT	P*	Z	22 00 58.1				
WN	IP*	ZN	22 01 06.2 us				4.9
	S*	NE	24				
	S	Z	27				
i	NE		28 $\frac{1}{2}$				
CB	ePn	E	22 01 19				
	eP*	E	23				
	eSn	E	49				
TU	eSn	Z	22 01 24				
	(S)	Z	41				
KP	IPn	Z	22 01 45.2				
ON	eP	E	22 01 47				
	P*	E	02 03				4.8
	e	E	49				
	es*	E	59				
KM	eP*	X	20 01 50				
	eSn	X	02 24				
	e	X	31				
Epicentre			22 00 39	40.15S 175.9E	S		NZ(B) 5.1
				Felt Hunterville, Raetihi (4), Ohakune, Hawera, Dannevirke (3), Stratford (2-3), Bunnythorpe (2)			
11 KP	P	Z	03 07 05				
Epicentre				02 54 10.8	51.6N 176.9E	53km	USCGS
11 KP	PKP	Z	05 25 54				
CT	PKP ₂	Z	05 25 55				
Epicentre			05 05 01.6	43.5N 17.7E	25km		USCGS
11 KP	P	Z	16 25 15 $\frac{1}{2}$				
GP	eP	N	16 26 19				
	S	N	27 39 $\frac{1}{2}$				
CT	P	Z	16 25 23 $\frac{1}{2}$				5.4
	e	Z	26 04				
	eS	Z	07				
ON	e?	E	16 25 30				
	S	E	26 01				
WN	P	Z	16 25 44				
	S	Z	26 40				
CB	eS	E	16 26 51				
KM	eS	X	16 27 28				
Epicentre			16 24 30	37.0S 176.6E	335km		NZ(C) 5.1
11 KP	P	Z	23 19 13				
Epicentre			23 14 34.3	18.7S 174.8W	151km		USCGS
12 KP	P	Z	09 00 59				
CT	P	Z	09 01 06				
(pP)	Z		27				
Epicentre			08 50 31.2	20.2N 145.9E	103km		USCGS
12 KP	P	Z	11 07 59				
Epicentre			10 55 00.8	52.4N 177.7E	49km		USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 13	KP	P	Z 03 08 51				
	Epicentre		Z 03 04 55.7	19.18	177.5W	542km	USCGS
13	KP	P	Z 05 01 33				
	Epicentre		Z 04 48 37.3	52.3N	177.4E	49km	USCGS
13	KP	iPn	Z 11 06 06 d				
	CT	Pn	Z 11 06 12½				
	iP*	Z	20				
	TO	e	Z 07 01				
	eP	Z	11 06 13				
	e	Z	19½				
	e	Z	59½				
ON	Pn	E	11 06 22½				
WN	ePn	Z	11 06 35				
	eP*	Z	51½				
	Sn	ZNE	07 36				5.3
CB	eSn	E	11 08 05				
KM	eSn	X	11 08 40				
RX	eL	N	11 12½				
	eL	ZE	13				
	Epicentre		11 05 16	37.2S	179.5E	S	NZ(C) 5.1
13	KP	eP	Z 11 46 35				
	Epicentre		Z 11 41 10.1	15.1S	174.0W	25km	USCGS
14	KP	P	Z 13 46 32				
TU	eP	Z	13 46 38				
CT	eP	Z	13 46 38				
	Epicentre		Z 13 34 02.8	44.9N	140.8E	193km	USCGS
14	KP	iP	Z 18 47 18				
	i	Z	24½				
TU	eP	Z	18 47 28				
CT	P	Z	18 47 29				
WN	P	Z	18 47 43				
GP	eP	N	18 48 00				
	Epicentre		Z 18 41 49.5	11.4S	166.5E	229km	USCGS
15	KP	eP	Z 18 28 50				
	e	Z	29 17				
	ePcP	Z	30 45				
CT	P	Z	18 28 57				
	ePcP	Z	30 52				
	Epicentre		Z 18 21 12.8	6.0S	146.8E	140km	USCGS
15	KP	eP	Z 22 17 49				
	Epicentre		Z 22 16 18.2	32.0S	178.4W	286km	USCGS
16	ON	eP	E 11 37 47½				
	i	E	38 51				
TU	eP	Z	11 37 53				
	e	Z	55				
	S	Z	39 32				
KP	P	Z	11 37 54				
	e	Z	38 05				
CT	eP	Z	11 38 04				
	eS	Z	39 08				
WN	eP	Z	11 38 29				
	S	ZNE	40 40				
	eL	Z	11 43				
CB	eP	E	11 38 45½				
	S	E	40 57				
GP	eP	N	11 39 10				
	e	N	20				
	S	N	41 42				
KM	eP	X	11 39 14				
	S	X	41 35				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN	RX	eP	N 11 39 49				
	eL	NE	44½				
	eL	Z	45½				
	M	NE	46½				
	Epicentre		Z 11 35 41.3	30.5S	177.9W	39km	USCGS 6½
17	KP	P	Z 11 34 06½				
	WN	P	Z 11 34 35				
	Epicentre		Z 11 30 28.2	20.8S	178.4W	613km	USCGS
17	KP	P	Z 15 39 31				
	WN	P	Z 15 39 38				
	Epicentre		Z 15 29 06.6	4.3N	128.3E	25km	USCGS
17	KP	P	Z 15 53 27				
	WN	eP	Z 15 53 37				
	Epicentre		Z 15 43 18.3	3.9N	126.6E	74km	USCGS
18	KP	P	Z 08 20 11				
	Epicentre		Z 08 16 38.4	21.1S	178.7W	600km	USCGS
18	ON	eP	E 11 50 50				
	KP	P	Z 11 51 06				
	CT	P	Z 11 51 18				
	WN	P	Z 11 51 39				
	CB	P	E 11 51 41				
	GP	eP	N 11 52 03				
	eS	N	55 06				
18	KP	P	Z 15 49 41				
	CT	P	Z 15 49 49½				
	TU	eP	Z 15 49 53				
	RX	eL	NE 16 04				
	Epicentre		Z 15 42 25.5	5.3S	153.7E	83km	USCGS
18	KP	P	Z 15 53 03				
	CT	P	Z 15 53 11½				
	TU	P	Z 15 53 15				
	Epicentre		Z 15 45 40.9	4.2S	153.6E	127km	USCGS
18	ON	eP	E 16 00 47				
	KP	iP	Z 16 01 04.7 u				
	CT	P	Z 16 01 13 u				
	TU	P	Z 16 01 16½				
18	ON	eP	E 16 03 33				
	KP	iP	Z 16 03 50 u				
	CT	P	Z 16 03 58 u				
	TU	P	Z 16 04 02				
18	KP	P	Z 22 09 07				
	Epicentre		Z 21 59 44.1	4.4S	129.5E	21km	USCGS
19	KP	eP	Z 05 59 05				
	Epicentre		Z 06 01 09.5	51.5N	161.1E	29km	USCGS
19	SU	eP	N 13 24 40				
	S	N	26 05				
	eL	N	45				
	Epicentre		Z 13 22 37.0	21.5S	174.6W	25km	USCGS
19	ON	P	E 13 38 40				
	S	E	40 02				
	KP	eP	Z 13 38 49				
	i	Z	51				
	TU	eP	Z 13 38 51				
	eS	Z	40 21				
	CT	P	Z 13 38 59				

5.1

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 19	i	Z	39 01				
	eS	Z	40 37				
WN	S	ZNE	13 41 18				
CB	eS	E	13 41 28				5.9
KM	eS	X	13 42 04				5.5
Epicentre			13 36 54	31½S 179½W 450 km	NZ(D)	5.5	
				Charters Towers readings used to determine epicentre			
19	KP	eP	Z 20 54 25				
Epicentre			20 43 24.4	10.8N 122.4E 99km	USCGS		
19	KP	P	Z 21 27 35				
i		Z	47				
CT	pP	Z	54				
P		Z	21 27 49				
Epicentre			21 18 58.5	2.9S 139.0E 76km	USCGS		
19	KM	eP	X 22 09 46				
S		X	11 19				5.3
RX	S	ZNE	22 09 58				
eL	NE		10 3				
eL	Z		10 7				
CB	P	E	22 10 08				
S		E	11 57				5.3
WN	eP	Z	22 10 18				
CT	P	Z	22 10 45				
i		Z	48				
KP	eP	Z	22 10 58				
e		Z	13 49				
TU	eP	Z	22 11 0				
Epicentre			22 07 47	48½S 164½E N	NZ(D)	5.3	
				Canberra, Fort Nelson, Melbourne, Charters Towers, Byrd, Port Moresby			
				readings used to determine epicentre.			
19	KP	e	Z 22 38 47				
PKP ₂		Z	56				
Epicentre			22 18 27.3	38.2N 22.1E 60km	USCGS		
20	KP	P	Z 20 21 49				
CT	P	Z	20 21 57				
Epicentre			20 14 32.7	6.6S 152.1E 33km	USCGS		
20	SU	eP	N 22 19 29				
i		N	43				
i		N	52				
KP	eP	Z	22 23 52				
CT	P	Z	22 24 01				
e		Z	06				
21	SU	e(P)	N 12 53 15				
ON		N	54				
P	E	12 55 44					
S	E	58 55					
KP	P	Z	12 55 59				
pP		Z	57 19				
eS		Z	59 21				
TU	eP	Z	12 56 03				
eS		Z	59 19				
CT	eP	Z	12 56 07				
CB	eP	E	12 56 30				
Epicentre			12 51 52.1	17.7S 178.8W 558km	USCGS		
22	KP	P	Z 21 37 44				
TU	P	Z	21 37 56				
Epicentre			21 30 20.2	4.3S 152.5E 104km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 23	CT	iP*	Z 06 49 58.8	d			
	KP	iP*	Z 06 49 59.0				
	TU	iPn	Z 06 50 14.5				
		iP*	Z 06 50 16.8				
		e	Z 06 50 19½				
	WN	eS	Z 06 50 24½				
		Pn	ZNE 06 50 32				5.5
		iP*	ZNE 06 51 03				
	(S)	ZNE	51 03				
	CB	Pn	E 06 50 25				
		eP*	E 06 50 33				5.3
		Sn	E 06 50 57				
	ON	P	E 06 50 57½				
	KM	ePn	X 06 50 50½				
		eP*	X 06 51 05				5.8
		Sn	X 06 51 39				
	RX	eL	ZNE 06 54				
	Epicentre		06 49 42	38.55S 174.7E	S		
							NZ(B) 5.5
24	SU	P	N 04 49 09				
	ON	eP	E 04 51 06				
	KP	iP*	Z 04 51 28 u				
	TU	P	Z 04 51 38				
	WN	eP	Z 04 51 52				
	Epicentre		04 46 29.1	15.6S 167.6E 133km			USCGS
24	KP	P	Z 15 51 54				
	pP	Z	52 16				
	Epicentre		15 39 46.0	24.4N 122.0E 58km			USCGS
25	SU	eP	N 01 54 26				
	i	N	30				
	eS	N	57 35				
	KP	P	Z 01 56 15				
	e	Z	57 04				
	CT	eP	Z 01 56 25				
	TU	eP	Z 01 56 26				
	Epicentre		01 50 11.4	10.7S 161.8E 80km			USCGS
25	KP	P	Z 09 35 19				
	Epicentre		09 25 25.9	12.3N 142.3E 145km			USCGS
25	KP	eP	Z 10 11 11				
	e	Z	24				
	Epicentre		10 03 07.0	4.4S 152.7W 50km			USCGS
26	KP	P	Z 05 34 15				
	CT	eP	Z 05 34 20				
	i	Z	21				
	TU	eP	Z 05 34 21				
	Epicentre		05 22 51.3	32.2N 138.1E 333km			USCGS
26	KP	eP	Z 06 13 12½				
	i	Z	15				
	TU	eP	Z 06 13 13				
	CT	eP	Z 06 13 21				
	eS	Z	16 33				
	WN	eP	Z 06 13 43				
	e	Z	48				
	eS	NE	17 11				
	GP	eS	N 06 18 10				
	Epicentre		06 09 33.0	23.4S 176.1W 214km			USCGS
26	KP	PKP ₂	Z 08 38 10				
	Epicentre		08 17 37.0	35.1N 22.7E 32km			USCGS 5-5½

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN 27	CT	eP	Z 11 46 27				
KP	P	Z	11 46 33				
SU	eL	N	12 06				
27	ON	eP	E 13 42 13				
KP	P	Z	13 42 24				
TU	eP	Z	13 42 25				
	eS	Z	43 57				
CT	P	Z	13 42 33				
	eS	Z	44 16				
WN	eS	NE	13 44 54				
GP	eS	N	13 45 50				
Epicentre			13 40 23	31 1/2 S 178 1/2 W	NZ	5 1/2 - 5 1/2	
28	KP	P	Z 04 02 13				
	pP	Z	33				
CT	P	Z	04 02 20				
Epicentre			03 54 17.1	4.6S 144.0E 157km	USCGS		
28	SU	eP	N 05 42 25				
	M	N	46 1/2				
ON	eP	E	05 45 05				
	S	E	49 09				
KP	eP	Z	05 45 15				
	e	Z	22				
CT	eP	Z	05 45 15				
	eS	Z	49 36				
WN	eP	Z	05 45 27				
	eS	Z	32				
WN	eP	Z	49 57				
	eS	Z	05 45 58				
RX	eS	ZNE	50 33				
	eL	N	05 52.0				
	eLr	N	57				
Epicentre		Z	59				
			05 40 08.2	17.2S 172.0W 25km	USCGS		
28	KP	P	Z 16 51 16				
Epicentre			16 41 13.8	0.0 123.9E 101km	USCGS		
29	CT	eP	Z 11 49 40				
	e	Z	46				
Epicentre			11 43 12.6	9.1S 157.5E 114km	USCGS		
29	TU	eP	Z 13 30 50				
CT	eP	Z	13 30 50				
Epicentre			13 25 03.8	12.5S 165.1E 100km	USCGS		
30	KP	P	Z 09 34 19				
	e	Z	30				
30	KP	P	Z 13 59 01				
CT	P	Z	13 59 09				
Epicentre			13 51 27.5	5.3S 146.8E 158km	USCGS		
30	SU	S	N 15 03 58				
ON	eP	E	15 05 38				
KP	1P	Z	15 05 50 1/2 u				
TU	eP	Z	15 05 52				
CT	eP	Z	15 05 57				
WN	eP	Z	15 06 18				
Epicentre			15 01 12.4	16.2S 176.0W 383km	USCGS		
30	KP	P	Z 15 33 12				
	e	Z	37				
	e	Z	47				
	(PP)	Z	34 00				
CT	eP	Z	15 33 20				
	e	Z	53				

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JAN	TU	e(P)	Z 15 33 21				
	e	Z	52				
	Epicentre		15 22 49.4	20.7N 144.5E 187km			USCGS
30	SU	S	N 18 34 50				
	M	N	37 10				
	ON	eP	E 18 35.0				
	KP	P	Z 18 35 14				
	e	Z	16				
	TU	e(P)	Z 18 35 30				
	CT	eP	Z 18 35 30				
	WN	eP	Z 18 35 51				
	e	Z	36 13				
	GP	eP	N 18 36.0				
	RX	eL	ZN 18 45				
	Epicentre		18 30 52.3	18.8S 168.5E 79km			USCGS
31	CT	eP	Z 03 51 52				
	Epicentre		03 46 49.0	17.6S 168.0E 46km			USCGS
FEB 1	ON	eP	E 00 18 27				
	TU	eP	Z 00 18 28				
	eS	Z	20 07				
	KP	eP	Z 00 18 39				
	CT	eP	Z 00 18 54				
	e	Z	20 34				
	TO	eP	Z 00 18 56				
	e	Z	20 33				
	KM	eP	X 00 19 33				
	eS	Z	22 16				
	WN	eS	ZNE 00 21 11				
	CB	eS	E 00 21 30				
	GP	eS	N 00 22 17				
1	TU	eP	Z 00 41 52				
	e	Z	43 26				
	ON	eP	E 00 41 54				
	e	Z	44 42				
	KP	eP	Z 00 41 57				
	TO	eP	Z 00 42 08				
	e	Z	43 53				
	CT	eP	Z 00 42 09				
	e	Z	43 56				
	WN	eP	ZNE 00 42 35				
	eS	ZNE	44 34				
	e	Z	45 25				
	e	Z	46 9				
	eL	Z	51 0				
	CB	eP	E 00 42 50				
	eS	E	44 55				
	KM	eP	X 00 43 11				
	e	Z	21				
	eS	X	45 34				
	GP	eP	N 00 43 16				
	eS	N	45 39				
	RX	eS	N 00 44 03				
	e	NE	47 22				
	e(L)	ZNE	49				
	eL	ZNE	57.7				
	Epicentre		38.0 14	10.5 14 6.4 17 9.9 14			
			00 39 54.6	31.7S 177.3W 30km			USCGS
1	KP	e(P)	Z 02 16 32				
	CT	e(P)	Z 02 16 47				
	e	Z	53				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB 1	TU	eP	Z 18 59 20				
		e	Z 19 00 52				
ON	e?	E	Z 18 59 23				
KP	eP	Z	Z 18 59 23				
	e	Z	Z 19 00 59				
CT	eP	Z	Z 18 59 35				
	e	Z	Z 19 01 17				
	e?	Z	Z 19 01 38				
TO	eP	Z	Z 18 59 35				
	e	Z	Z 19 01 15				
WN	eP	Z	Z 19 00 01				
	eS	ZNE	Z 02 00				
	eL	Z	Z 04.4				
	M	Z	Z 13 1.6 13				
CB	eP	E	E 19 00 33	Very emergent			
	eS	E	E 02 19	Very emergent			
KM	eP	X	X 19 00 36				
	eS	X	X 03 02				
GP	eP	N	N 19 00 40				
	eS	N	N 03 05				
SU	eL	N	N 19 04.7	Irregular			
RX	eL	ZN	ZN 19 07.7	Traces Only			
	eL	E	E 08.6	Traces Only			
1 TU	eP	Z	Z 20 23 08				
KP	eP	Z	Z 20 23 12				
	e	Z	Z 35				
ON	eP	E	E 20 23 22				
	e	E	E 58				
CT	eP	Z	Z 20 23 24				
	e(S)	Z	Z 25 40				
TO	eP	Z	Z 20 23 43	Very emergent			
	e	Z	Z 25 19	Possibly artificial			
KM	e(P)	X	X 20 24 31				
	e(S)	X	X 27 12				
GP	e(S)	N	N 20 27 13				
SU	eL	N	N 20 27.6	Irregular			
RX	eL	NE	NE 20 30.5	Traces Only			
	eL	ZN	ZN 32.3	Traces Only			
2 ON	e?	E	E 17 35 07				
KP	e(P)	Z	Z 17 35 15				
TU	e(P)	Z	Z 17 35 15				
	e(S)	Z	Z 38 31				
CT	e(P)	Z	Z 17 35 26				
	e(S)	Z	Z 38 51				
TO	e(P)	Z	Z 17 35 26				
	e(S)	Z	Z 38 51				
2 SU	eL	N	N 19 04.7	Period irregular			
KP	e(P)	Z	Z 19 10 59				
2 SU	eL	N	N 20 27.7	Period irregular			
3 ON	eP	E	E 00 46 39				
	e	E	E 47 40				
KP	1P	Z	Z 00 46 54 u				
SU	eP	N	N 00 46.9	Time approx.			
	eS	N	N 52.5	Time approx.			
	eL	N	N 55.3	Time approx.			
CB	eP	E	E 00 46 56				
	e?	E	E 47 05				
CT	eP	Z	Z 00 47 00				
TO	eP	Z	Z 00 47 00				
TU	eP	Z	Z 00 47 04				
WN	eP	ZN	ZN 00 47 05	2.8 5			
	eS	Z	Z 54.30				
	e	Z	Z 59.03				

6.4

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
		eL	Z 01 10.1				
		M	Z 14	15 15			
RX	eP	ZNE	ZNE 00 47 06				
	e	NE	49 16				
	e	Z	50 45				
	eS	ZNE	54 29	4.8 15	5.8 15	5.0 15	6.1
	e(SS)	N	58 22		3.7 15		
	e(L)	Z	01 02.2				
	eL	ZE	06.1				
	L	N	Onset not clear				
	M	N	09		1.3 14		
	M	E	10		1.0 14		
	M	Z	11	2.0 17			
KM	eP	X	X 00 47 09				
	e	X	36				
	e(S)	X	54 15				
	GP	eP	N 00 47 10				
	Epicentre		00 37 53.6	1.2S 137.8E 17km			USCGS
3 KP	eP	Z	Z 13 29 26				
TU	eP	Z	Z 13 29 31				
	eS	Z	Z 32 33				
TO	eP	Z	Z 13 29 43	Very emergent			
	e?	Z	Z 31 18				
	e?	Z	Z 33				
	eS	Z	Z 33 05				
WN	eS	ZN	ZN 13 33 39				
GP	e?	N	N 13 34 41				
RX	eL	E	E 13 38.8	Traces Only			
	eL	N	N 39.9	Traces Only			
	Epicentre		13 25 12.2	21.2S 175.5W 25km			USCGS
4 ON	e	E	E 00 09 34				
	KP	e	Z 00 09 55				
	TU	e	Z 00 11 04				
	TO	e	Z 00 11 21	Very emergent			
	WN	e	ZNE 00 12 13				
	GP	e	N 00 13 20				
	KM	e	X 00 13 47				
4 ON	eP	E	E 01 05 03				
	KP	eP	Z 01 05 19	Very emergent			
	TU	eS	Z 01 07 03				
	TO	eS	Z 01 07 24	Very emergent			
	WN	eS	ZNE 01 08 09				
	CB	eS	E 01 08 27	Very emergent			
	GP	eS	N 01 09 13				
	KM	eS?	X 01 09 14	Very emergent			
	Epicentre		01 02 34.6	29.1S 177.2W 43km			USCGS
4 KP	eP	Z	Z 03 04 52				
	TU	eP	Z 03 05 00				
	TO	e	Z 03 05 36				
	RX	e	N 03 19 06				
	e(Lq)	N	25.6	2.2 20			
	eLq	E	29.0				
	eLr	Z	32.3	3.3 15	4.6S 119.0E 89km		2.5 15
	Epicentre		02 54 42.1				USCGS
8 KP	eP	Z	Z 11 57 38				
	TO	eP	Z 11 57 45				
	CT	eP	Z 11 57 45.5				
	TU	eP	Z 11 57 50				
	RX	e	E 12 03 38				
	e	NE	OL.9				
	eL	N	09 14				
	M	N	10	2.8 15			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB	eL	E	10.5				
	M	E	19				
	eL	Z	18.9				
SU	eL	N	12 06.9				
AK	e	N	12 09 41				
	e	N	13 35				
	eL	N	14 58				
WN	eL	Z	12 16.6	7.2 15 Irregular			
Epicentre			11 49 13.9	3.2S 141.3E 87km	USCGS		
8 ON	eP	E	16 46 13				
	e	E	49				
KP	eP	Z	16 46 35				
	e	Z	48				
TU	e?	Z	16 46 47				
	e(P)	Z	54				
	e	Z	47 02				
CT	eP	Z	16 46 52				
TO	eP	Z	16 46 52				
Epicentre			16 42 04.4	19.2S 169.1E 43km	USCGS		
8 TO	eP	Z	19 52 37				
KP	eP?	Z	19 52 38				
TU	eP?	Z	19 52 43				
Epicentre			19 40 27.7	0.7N 98.6E 43km	USCGS		
9 ON	eP	E	12 05 22				
	e	E	07 41				
KP	eP	Z	12 05 37				
	e	Z	08 15				
TU	eP	Z	12 05 41				
	eS	Z	08 09				
WN	eP	ZNE	12 06 10				
	eS	ZNE	09 06				
CB	eP	E	12 06 12				
	eS	E	09 09				
KM	eP	X	12 06 30				
	eS	X	09 35				
SU	e?	N	12 06 31				
Epicentre			12 02 33.5	24.2S 179.5E 541km	USCGS		
9 KP	eP	Z	22 01 24				
WN	eP	Z	22 01 28				
TU	eP	Z	22 01 33				
Epicentre			21 51 13.2	0.6N 123.9E 50km	USCGS		
11 KP	eP	Z	02 53 38				
	epP	Z	55 13				
TU	eP	Z	02 53 45				
	epP	Z	55 22				
TO	eP	Z	02 53 50				
	epP	Z	55 23				
WN	eP	Z	02 53 53				
	epP?	Z	55 29				
Epicentre			02 42 36.1	29.6N 139.0E 400km	USCGS		
11 KP	eP	Z	19 02 50				
	epP	Z	03 14				
	e	Z	26				
ON	ePcP	Z	04 58				
	eP	E	19 02 52	Very emergent			
	e	E	03 06				
	e(pP)	E	22				
SU	e	N	19 02 53				
	e	N	03 37				
	e(S)	N	05 55				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
	e(SS)	N	07 25				
	e	N	11 59				
CT	eP	Z	19 02 59				
	epP	Z	03 22				
TU	eP	Z	19 03 03				
	epP	Z	27				
	e(S)	Z	09 40				
	eP	E	19 03 05	Very emergent			
CB	eP	E	36				
	e	E	10 00				
WN	eP	ZNE	19 03 09	2.9 6			6.3
	epP	ZNE	30				
	e(PcP)	Z	05 32				
	e?	Z	08 52				
	e?	Z	10 00				
	e(ScS)	Z	13 30				
	eL	Z	19 0	9.0 18			
KM	eP	X	19 03 19				
GP	eP	N	19 03 23				
	e	N	54				
RX	eP	ZNE	19 03 24	3.5 9	2.5 12		6.2
	e	ZE	56				
	ePP	N	05 08				
	e	ZE	54				
	eS	NE	09 36	8.4 20	6.3 17		6.1
	e(S)	N	13 09				
	e	ZE	30	6.6 20			
	eL	ZNE	16.2	20 25	15 27	12 23	
AK	e	N	19 05 47				
	e	N	06 38				
	e	N	09 20				
	e	N	10 02				
Epicentre			18 55 32.0	4.5S 153.5E 100km	USCGS		
11 KP	e(P)	Z	22 48 34				
Epicentre			22 41 13.8	4.3S 153.7E 118km	USCGS		
12 KP	eP	Z	17 37 39				
Epicentre			17 25 56.9	34.4N 135.6E 317km	USCGS		
12 ON	eP	E	20 56 18				
	e(S)	E	57 26				
KP	eP	Z	20 56 24.5				
	e?	Z	57 20				
	eS	Z	42				
TU	eP	Z	20 56 26				
	eS	Z	57 40				
CT	eP	Z	20 56 34				
	eS	Z	57 56				
WN	eP	ZNE	20 56 54				
	eS	ZNE	58 31				
	e	ZNE	21 11 50				
CB	eP	E	20 57 00	Very emergent			
	eS	E	58 44	Very emergent			
GP	eS	N	20 59 27				
Epicentre			20 54 48	33.2S 179.2E 537km Charters Towers reading used to determine Epicentre	NZ(D) 5.7NZ		
12 KP	eP?	Z	23 36 37				
Epicentre			23 24 55.2	26.4N 140.9E 168km	USCGS		
14 KP	eP	Z	02 01 14				
	eP?	Z	02 01 16				
TU	eP?	Z	02 01 33				
Epicentre			01 53 33.9	4.3S 153.5E 119km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB 14	KP	eP	Z 02 57 38				
	TU	eP	Z 02 57 47				
Epicentre			02 47 30.7	0.1N 123.8E 96km			USCGS
14	RX	eP	ZNE 06 48 16	20.5 11	6.2 14	6.3 11	7.1
	ePP	ZNE	51 24				
	eS	ZNE	58 06	14.5 16	24 15	44 18	7.2
	e	Z	07 03 00				
	eSS	NE	30				
	eLq	NE	09 26				
	eLr	Z	12 7	250 19	62 28	30 30	
	eLr	NE	13 0		73 19	108 18.5	
GP	eP	N	06 48 17				
	eS	N	57 57				
	eL	N	07 12 46				
WN	eP	ZNE	06 48 19	22 10			7.2
	e	Z	49 10				
	ePP	Z	51 24				
	eS	ZNE	58 08				
	eSS	Z	07 03 24				
	eL	Z	12 42				
	M	Z	15	66 19			
TU	eP	Z	06 48 21				
CB	eP	E	06 48 22	Very emergent			
	e(S)	E	58 21	Very emergent			
CT	eP	Z	06 48 23				
	e	Z	55				
KP	eP	Z	06 48 24				
	e	Z	28				
	e	Z	59				
	ePP	Z	51 39				
AK	eP'P'	Z	07 14 54				
	eP	N	06 48 37	6.2 10			
	e(S)	N	58 48	14 12			
	e(PS)	N	59 54				
	eLq	N	07 10 21	55 26			
	eLr	N	13 58	49 21			
ON	eP	E	06 48 48				
	e	E	58 57				
SU	eP	N	06 49 29				
	ePP	N	53 11	8.2 10			
	e(PPP)	N	55 24				
	e(SKS)	N	59 46				
	e(PS)	N	07 01 38				
	e	N	03 28				
	eSS	N	06 50				
	eL	N	18 6				
	M	N	21	70 20			
Epicentre			06 36 01.3	38.1S 73.1W 44km			USCGS
14	KP	eP	Z 15 06 08				
	TU	eP	Z 15 06 13				
	e(S)	Z	38				
CT	eP	Z	15 06 18				
WN	eP	Z	15 06 40				
	eS	ZNE	07 33				
Epicentre			15 05 31	37.1S 176.4E 260km	NZ(D) 4.6Hz		
14	RX	e	NE 23 03.8				
	e	Z	06.1	Traces only			
15	KP	eP	Z 15 32 50				
	e	Z	54				
	e?	Z	33 19				
	eS	Z	38 44				
CT	eP	Z	15 33 01				
	e?	Z	33 26				
	e?	Z	47				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB	TU	eP?	Z 15 33 05				
		e?	Z 30				
	CB	eP	E 15 33 07				
	KM	eP	X 15 33 18				
	WN	eS?	ZNE 15 36 30				
		eL?	Z 43.0	Traces only			
		eLr?	Z 49.5	Traces only			
	RX	e(S)	NE 15 39 40	2.0 16			
		e	NE 43 14	1.9 20	2.5 15		
		eLr	ZNE 46	4.4 22	3.5 26	3.1 20	
	Epicentre		15 25 29.5	4.48 153.8E 109km			USCGS
15	ON	eP	E 15 32 50				
	TU	eP?	Z 15 33 05				
		e?	Z 30				
	WN	eS	Z 35 42				
	KP	eP	Z 15 33 06				
		e?	Z 19				
	CT	eP	Z 15 33 14				
		e?	Z 26				
		e?	Z 47				
		eS	Z 36 02				
	CB	eP	E 15 33 39				
		eS	E 36 39				
	GP	eP	N 15 34 02				
		eS	N 37 17				
	WN	eS?	ZNE 15 36 30				
		eL?	Z 43.0	Traces only			
		eLr?	Z 49.5	Traces only			
	KM	eS	X 15 37 07				
	Epicentre		15 29 55.6	23.7S 179.7W 555km			USCGS
15	ON	eP	E 20 59 37				
	SU	e	N 21 00 15	Traces only			
	WN	e	Z 21 06 24				
	RX	e	NE 21 08 4	2.9 17	2.0 15		
		e	Z 10.0	4.6 17	23.9S 176.5W 25km		USCGS
	Epicentre		20 55 59.7				
16	KP	eP	Z 09 23 50				
		eS	Z 24 10				
	CT	eP	Z 09 23 53				
		e	Z 24 21				
	WN	eP	ZNE 09 24 14				
		eS	ZNE 52.4				
	TU	eS?	Z 09 24 18				
	CB	eP	E 09 24 22				
		eS	E 25 06				
	KM	eS	X 09 25 44				
	GP	eS	N 09 25 55				
	Epicentre		09 23 23	38.3S 175.6E 197km			NZ(B) 4.2NZ
17	RX	eP	ZN 03 47 44				
		e(Lq)	NE 51.3	3.2 12			
		eLr	Z 52.1	13 18	17 12		5.5
	GP	eP	N 03 48 17	19 16			
		eL	N 55 00				
	KM	eP	X 03 48 29				
		eL	X 55 23				
	CT	eP	Z 03 49 07				
		e	Z 52				
	KP	eP	Z 03 49 11				
		epP	Z 18				
		e	Z 50 32				
	TU	e?	Z 03 49 15				
		e?	Z 39				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB	ON	eP	E 10 09 53				
		eS	E 11 57				
	AK	eP	N 10 10 00		Timing Doubtful		
		eS	N 11 03		Timing Doubtful		
	KP	iP	Z 10 10 08 u				
		e	Z 12 26				
		e	Z 17 24				
		e	Z 10 25 42				
TU	eP	Z	10 10 11				
		eS	Z 12 24				
		e	Z 17 26				
		eScS	Z 21 02				
CT	eP	Z	10 10 17				
		e	Z 18				
		e	Z 20				
		eS	Z 12 42				
		e	Z 17 25				
		eScS	Z 21 04				
WN	eP	ZNE	10 10 38				
		eS	ZNE 13 13				
		e	Z 17 31				
		eScS	ZNE 21 10				
CB	eP	E	10 10 41				
		eS	E 13 17				
KM	eP	X	10 10 57				
		eS	X 13 41				
GP	eP	N	10 11 03				
		eS	N 13 54				
		eScS	N 17 38				
RX	eL'	NE	10 18		Traces only		
		eL	Z 19		Traces only		
	Epicentre		10 07 26.6		25.9S 178.4E 655km	USCGS	
20	ON	eP	E 16 18 13		Very emergent		
		epP	E 27				
	KP	eP	Z 16 18 19				
		epP	Z 33				
	CT	eP	Z 21 49				
		epP	Z 37				
	TU	eP	Z 16 18 25		Very emergent		
		epP	Z 37				
		epP	Z 21 59				
		WN	Z 21 56				
	WN	eP	Z 16 18 31				
		epP	ZN 45				
		eL	Z 50.9		Traces only		
	CB	epP	E 16 18 44				
	KM	e(pP)	X 16 18 49				
	GP	e(pP)	N 16 18 55				
	AK	eS	N 16 28 32		Timing doubtful		
	RX	e(ss)	N 16 29 46				
		e(ss)	N 35 40				
		eL	N 49.7		2.1 23		
		eL	ZE 50		Traces only		
		Epicentre	16 05 44.6		43.0N 144.9E 55km	USCGS	
20	KP	eP	Z 17 17 06				
	CT	eP	Z 17 17 07				
	TU	eP	Z 17 17 13				
	Epicentre		17 05 38.9		4.0S 104.2E 25km	USCGS	
20	GT	eP?	Z 20 19 34				
		e(pP)	Z 39				
	RX	eS	N 20 27 14		Traces only		
	Epicentre		20 11 13.7		50.6S 110.8E 31km	USCGS	

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB 20	GT	e?	Z 22 15 53				
		e(P)	Z 16 18				
	KP	eP	Z 22 16 15				
	RX	eLq	N 22 42 02		Traces only		
		e(Lr)	Z 58 03		Traces only		
	Epicentre		22 02 38.2		26.1N 96.8E 25km	USCGS	
21	ON	eP	E 00 09 13				
	KP	eP	Z 00 09 26				
	OT	e?	Z 00 09 28				
		e(P)	Z 36				
	e	Z	12 14				
	WN	eP	ZNE 00 10 07				
		e	ZNE 12 52				
	KM	eP	X 00 10 50		Very emergent		
	eS	X	13 35		Very emergent		
	CB	eS	E 00 13 16				
	Epicentre		00 06 02.4		24.8S 177.1W 38km	USCGS	
21	CT	eP	Z 09 55 39		Very emergent		
	RX	eL	N 09 58 24				
	Epicentre		09 50 05.4		56.8S 146.7E 25km	USCGS	
21	KP	eP	Z 10 07 05		Very emergent		
	CT	eP	Z 10 07 12				
	Epicentre		10 01 19.0		12.0S 165.9E 25km	USCGS	
22	ON	eP	E 09 51 45				
	TU	eP	Z 09 51 50				
		eS	Z 52 57				
		e	Z 53 04				
	KP	eP	Z 09 51 52				
	CT	eP	Z 09 52 02				
		e	Z 53 29				
	WN	eP	ZNE 09 52 26				
		eS	ZNE 54 08				
	CB	e?	E 09 52 50				
		eS	E 54 25				
	KM	eP	X 09 53 03				
		eS	X 55 06				
	GP	eP	N 09 53 06				
		eS	N 55 12				
	RX	eP	Z 09 53 41				
		e	Z 54 16				
		eS	Z 56 15				
	Epicentre		09 50 23		33.5S 179.7W 285±km	NZ(D) 5.9NZ	
					Charters Towers, Brisbane and Canberra Readings used to determine Epicentre.		
22	KP	eP	Z 16 50 05				
	Epicentre		16 38 01.4		29.4N 131.1E 25km	USCGS	
22	KP	eP	Z 22 42 10				
	TU	eP	Z 22 42 11				
		eS	Z 45				
	CT	eP	Z 22 42 17				
	WN	eP	ZNE 22 42 39				
		eS	ZNE 43 38				
	CB	eS	E 22 43 50				
	Epicentre		22 41 26		37.2S 177E 310km	NZ(B) 4.6NZ	
23	KP	eP	Z 11 48 27				
	CT	eP	Z 11 48 36				
	GP	eP?	N 11 48 55				
	RX	eS	NE 11 55 18				
		e?	E 58 32				
	eL	NE	12 02.5				
	Epicentre		11 40 52.8		1.3 16 1.9 24	6.3S 147.0E 80km	USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB 23	KP	eP	Z 18 13 02				
	CT	eP	Z 18 13 10				
	CB	eP	E 18 13 14				
	TU	eP	Z 18 13 15				
	e?	Z	15 17				
	WN	eP	ZN 18 13 21				
	GP	eP	N 18 13 30				
	KM	eP?	X 18 13 33				
	SU	eL	N 18 18 8				
	RX	eS	NE 18 20 12		1.4 20	1.7 20	6.4
		eL	NE 25		4.7 23	4.2 20	5.3
		eL	Z 30.6	5.0 18			
	Epicentre		18 05 27.1	4.0S 152.6E 25km			USCGS
23	KP	eP	Z 19 40 04				
	CT	eP	Z 19 40 06				
	TU	eP	Z 19 40 14	Very emergent			
	Epicentre		19 29 15.1	11.1N 125.8E 100km			USCGS
23	SU	e(P)	N 20 28 24	Very emergent			
		eS	N 33 14				
		eSS	N 34 50				
		eL	N 36				
	CT	eP	Z 20 29 12				
	TU	eP	Z 20 29 16				
	e(ScS)	Z	39 51				
	CB	eP	E 20 29 16				
	KM	eP	X 20 29 22				
	eS	X	35 53				
	WN	eP	ZNE 20 29 23	5.7 3			6.8
	e(PP)	Z	31 18	Very emergent			
	eS	Z	35 47	Very emergent			
	eL	Z	42.5	7.1 20			
	GP	eP	N 20 29 32				
	eS	N	36 02				
	RX	eS	NE 20 36 08		4.5 22	6.0 22	6.0
		e	NE 39 42				
		eL	E 41.5		15 22		
		eL	ZN 42.9	1.7 17	16 18		5.8
	Epicentre		20 21 28.6	3.8S 152.0E 25km			USCGS
24	MN	iP	Z 08 00 05				
	RX	eP	ZE 08 00 16 d				
		eS	ZNE 34				
	GP	eP	N 08 00 50				
		eS	N 01 35				
	e	N	02 01				
	KM	e?	X 08 01 02				
		eS	X 01 36				
	CB	eP	E 08 01 13				
		eS	E 02 16				
	WN	eP	Z 08 01 26				
		eS	ZNE 02 38				
	CT	eP	Z 08 01 52				
		e	Z 02 02				
		e	Z 03 32				
		e	Z 45				
	KM	eP	Z 08 02 04				
		e	Z 03 49				
	ON	eS	E 08 04 19				
	Epicentre		07 59 51	44.9S 167.5E N			NZ(C) 4.9NZ
24	MN	eP	Z 14 00 13				
	KP	eP	Z 14 00 15				
	CT	eP	Z 14 00 19				
	TU	eP	Z 14 00 23				
	Epicentre		13 48 44.8	9.5N 12.9E 25km			USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB 24	KP	eP	Z 14 33 04				Very emergent
	CT	eP	Z 14 33 25				Very emergent
	Epicentre		14 27 01.4	10.7S 161.3E 50km			USCGS
24	KP	eP	Z 19 42 23				
	CB	eP	E 19 42 30				
	CT	eP	Z 19 42 31				
	TU	eP	Z 19 42 35				
	WN	eP	ZNE 19 42 35				
	KM	e	X 19 42 50				
	Epicentre		19 34 33.6	5.5S 146.1E 40km			USCGS
25	TU	eP	Z 02 47 20				
	e(S)	Z	02 48 29				
	KP	eP	Z 02 47 26				
	e	Z	48 44				
	ON	eP	E 02 47 32				
	CT	eP	Z 02 47 42				
	e	Z	49 01				
	WN	eS	ZNE 02 49 43				
	CB	eS	E 02 50 04				
	KM	eS	X 02 50 45				
	GP	eS	N 02 50 47				
	Epicentre		02 45 50				
	34.4S 177.5W 159km						NZ(D) 5.3NZ
	Charters Towers						Reading used to determine Epicentre
25	ON	eP	E 12 54 16				
	TU	eP	Z 12 54 20				
	eSn	Z	55 34				
	eS*	Z	59				
	KP	eP	Z 12 54 21				
	CT	eP	Z 12 54 ??				
	e?	Z	56 16				
	WN	e	ZNE 12 56 40				
	CB	e	E 12 56 59				
	GP	e	N 12 57 46				
	e	N	53				
	Epicentre		12 52 44				
	33.2S 179.1W S						NZ(D) 5.2NZ
	Charters Towers						reading used to determine Epicentre
25	TU	eP	Z 13 57 56				
	eS	Z	59 09				
	KP	eP	Z 13 58 00				
	ON	eP	E 13 58 07				
	CT	eP	Z 13 58 17				
	e?	Z	59 42				
	WN	e	Z 13 59 08				
	eS	ZNE 14 00 17					
	eL	Z	02				
	AK	e	N 13 59.9				
	CB	eS	E 14 00 38				
	GP	eS	N 14 01 23				
	RX	eL	NE 14 04				
	eL	Z	06				
	Epicentre		13 56 22				
	Traces only						
25	KP	eP	Z 14 05 22				
	TU	eP	Z 14 05 39				
	CT	eP	Z 14 05 39				
	SU	e	N 14 05 44				
	CB	eP	E 14 05 54				
	WN	eP	ZNE 14 05 56				
	GP	eP	N 14 06 15				
	Epicentre		14 00 43.9	17.1S 168.4E 24km			USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB 25	KP	eP	Z 20 15 34				
	Epicentre		Z 20 10 56.3	17.7S	174.1W	60km	USCGS
26	KP	eP	Z 01 46 04				
	CT	eP	Z 01 46 13				
	Epicentre		Z 01 39 03.6	7.1S	155.2E	25km	USCGS
26	TU	eP	Z 02 32 12				
	eS	Z	33 27 $\frac{1}{2}$				
	KP	eP	Z 02 32 16				
	ON	eP?	Z 02 32 19				
	CT	eP	Z 02 32 24				
	WN	e?	Z 02 33 30				
	eS	ZNE	34 35				
	e?	ZNE	35 40				
	eL	Z	37.0				
	RX	e?	Z 02 34 18	Irregular			
	eL	E	38.6				
	eL	N	39.0				
	eL	Z	40.5				
	CB	eS	Z 02 34 55	Irregular			
	KM	eS	X 02 35 34				
	SU	eL	N 02 38 10				
	Epicentre		Z 02 30 34	33.8S 177.7W N	NZ(D) 5.3M		
				Charters Towers and Raoul Island			
				Readings used to determine Epicentre.			
26	KP	eP	Z 08 55 06				
	CT	eP	Z 08 55 11				
	KM	e?	X 08 55 11	Very emergent			
	TU	eP	Z 08 55 15 $\frac{1}{2}$				
	Epicentre		Z 08 44 48.8	0.1S 122.3E	25km		USCGS
26	CT	e(PKP)	Z 12 39 59				
	TU	e(PKP)	Z 12 40 00				
	KP	e(PKP)	Z 12 40 05				
	e?	Z	44 19				
26	SU	e	N 16 45 16				
	eL	N	46 43				
	KP	eP	Z 16 48 41	26 $\frac{1}{2}$ 7			
	e?	Z	58				
	TU	eP	Z 16 48 51				
	CT	eP	Z 16 48 54				
	RX	eL	NE 16 57				
	WN	eL	Z 16 58	Traces only			
27	RX	eP	Z 12 53 02				
	eS	NE	13 02 54				
	eSS	NE	08 10	5.8 20			6.4
	eLq	NE	14.4	5.3 22	5.6 20		
	eLr	ZNE	17.7	5.8 32	4.6 28		
	TU	eP	Z 12 53 04				
	CT	eP	Z 12 53 05				
	KP	eP	Z 12 53 09				
	WN	eL	Z 13 18.7	5.3 16			
	SU	e(L)	N 13 24 27				
	eL	N	40				
	Epicentre		Z 12 40 48.9	8.8 17			USCGS
27	KP	eP	Z 14 30 50				
	CT	eP	Z 14 30 55				
	TU	eP	Z 14 31 00				
	e?	Z	07				
	RX	eL	ZN 14 50	Traces only			
	eL	E	55	Traces only			
	Epicentre		Z 14 21 24.5	2.7S 130.1E	40km		USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
FEB 28	KP	eP	Z 07 31 42				
	CT	eP?	Z 07 31 48				
	Epicentre		Z 07 19 44.5	31.4N	139.2E	62km	USCGS
28	TU	eP	Z 18 11 02				
	e(S)	Z	12 21				
	KP	e?	Z 18 11 30				
	e?	Z	39				
	CT	e?	Z 18 11 30				
	e	Z	12 39				
	WN	es	ZNE 18 13 24				
	CB	es	E 18 13 48				
	Epicentre		Z 18 09 20	34.0S	177.5W	N	NZ(D) 5.4NZ
				Charters Towers	Reading	used to	
				determine	Epicentre.		
28	KP	eP?	Z 20 54 18				
	CT	eP?	Z 20 54 25				
	Epicentre		Z 20 44 22.4	2.9S	140.7E	25km	USCGS
MAR 1	RX	eL	NE 07 27.0				
1	SU	e	N 23 42 52				
		e	N 44 17				
	AK	e	N 23 46 16				
		e	N 50 35				
	KP	eP	Z 23 46 26				
	TU	eP	Z 23 46 35				
	CT	eIP	Z 23 46 38 $\frac{1}{2}$				
	WN	ep	ZNE 23 46 54				
		e	ZNE 47 44				
		es	Z 51 30				
		eSS	Z 53 00				
		e(SS)	ZE 53 22				
		e	Z 55 08				
	CB	eP	E 23 46 57				
		e	E 52 48				
	KM	eP	X 23 47 07				
		eS	X 51 57				
	RX	eP	ZN 23 47 31				
		eS	ZNE 52 44				
		e(SS)	NE 54 32				
		e(Lq)	N 55 50				
		e(Lr)	Z 58 10				
	Epicentre		Z 23 41 14.5	14.0S	172.5W	73km	USCGS 6(Pas)
2	KP	eP	Z 13 12 57				
	WN	eP	ZN 13 13 34				
	RX	eP	Z 13 13 34				
		eS	NE 22 00				
		eL	NE 29.6				
	TU	eP	Z 13 13 36				
	Epicentre		Z 13 02 59.0	5.4N	126.5E	30km	USCGS
3	KP	eP	Z 12 25 22 $\frac{1}{2}$				
	WN	eP	Z 12 25 25				
	RX	eP	Z 12 25 29				
		e(L)	E 38 24				
		eL	E 48 44				
	TU	eP	Z 12 25 32				
	Epicentre		Z 12 14 52.1	7.4N	126.5E	90km	USCGS
3	ON	eP	E 16 05(15)				
	KP	eP	Z 16 05 23				
	TU	eP	Z 16 05 26				
		e	Z 45				
		es	Z 08 14				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	WN	eP	Z 16 05 36				
Epicentre			16 01 55.0	21.5S 179.1W 613km			USCGS
3	ON	eP	E 16 18 42				
KP	eP	Z 16 18 54					
TU	eP	Z 16 18 57					
e	Z	23 05					
CT	eP	Z 16 19 05					
KM	eP	X 16 19 49					
GP	eP	N 16 20 01					
Epicentre			16 13 56.9	16.1S 174.2W 129km			USCGS
4	KP	eP	Z 20 11 38 ¹				
e	Z	12 10					
TU	eP	Z 20 11 42					
e	Z	12 10					
CT	iP	Z 20 11 43 u					
e	Z	12 20					
ON	eP	E 20 11 49					
WN	eP	NE 20 12 03					
es	NE	52					
CB	eP	E 20 12 08					
es	E	13 02					
KM	eP	X 20 12 29					
es	X	13 37					
GP	eP	N 20 12 33					
es	N	13 48					
RX	es	Z 20 14 46					
Epicentre		20 10 58	37.7S 176.0E 310km	NZ(C)	5.3		
5	CT	eP	Z 03 54 03				
Epicentre			03 42 33.3	4.0S 103.3E 78km			USCGS
5	CT	eP	Z 10 27 47				
Epicentre			10 15 22.1	55.9S 27.9W 25km			USCGS
5	CT	eP	Z 16 58 19				
Epicentre			16 46 23.9	19.1N 121.1E 14km			USCGS
6	RX	eP	Z 06 08 43				
el	E	48.0					
GP	eP	N 06 08 52					
KP	eP	Z 06 08 54					
Epicentre			05 55 42.3	13.7N 93.7E 18km			USCGS
6	RX	e	E 14 48 04				
6	ON	eP	E 15 53 03				
KP	eP	Z 15 53 19					
TU	eP	Z 15 53 19					
e	Z	55 13					
CT	eP	Z 15 53 29					
e	Z	56 12					
WN	eP	ZNE 15 53 51					
e	ZNE	56 43					
CB	eP	E 15 53 54 ¹					
KM	e?	X 15 54 16					
6	TU	eP	Z 18 54 53				
CT	eP?	Z 18 55 12					
Epicentre			18 49 22.0	12.1S 167.8E 60km			USCGS
7	KP	eP	Z 10 44 08				
CT	eP	Z 10 44 17					
TU	eP	Z 10 44 20					
Epicentre			10 36 47.7	5.3S 153.9E 25km			USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR 7	SU	eP?	N 11 09 05				
		eS	N 15 21				
		e(SS)	N 19 24				
	ON	eP	E 11 10 21				
		eS	E 17 55				
	KP	eP	Z 11 10 33				
		eS	Z 18 20				
		e?	Z 38 36				
		e(P'P')	Z 39 19				
	CT	eP	Z 11 10 39				
		eS	Z 18 36				
		e(P'P')	Z 39 03				
	TU	eP	Z 11 10 41				
		e(PcP)	Z 11 00				
		e(pP)	Z 12 53				
	CB	eP	E 11 10 43				
		eS	E 18 38				
	WN	eP	ZNE 11 10 47				
		e(pP)	ZNE 13 00				
		eS	ZNE 18 44				
		e(P'P')	ZN 39 08				
	KM	eP	X 11 10 48				
		e	X 11 03				
		eS	X 18 45				
		e(P'P')	X 39 14				
	GP	eP	N 11 10 55				
		e	N 11 36				
		eS	N 19 00				
		e(P'P')	N 39 04				
	RX	eP	Z 11 10 59				
		eS	Z 19 08				
		e	Z 23 0				
		e(P'P')	Z 39 06				
	AK	eS	N 11 18 00				
		eScS	N 19 17				
	Epicentre		11 01 00.4	19.3N 145.3E 680km			USCGS 7(Pas)
7	KP	eP	Z 14 08 41				
	CT	eP	Z 14 08 47				
	Epicentre		13 58 32.4	17.2N 147.1E 41km			USCGS
7	CT	eP	Z 17 43 39				
	TU	eP	Z 17 43 44				
	Epicentre		17 34 25.6	2.1S 133.9E 89km			USCGS
7	KP	iP	Z 23 05 49				
	e	Z 06 09					
	CT	eIP	Z 23 05 53 (u)				
		e	Z 06 17				
	TU	eP	Z 23 05 54 ¹				
		e	Z 06 17				
	WN	eP	ZN 23 06 13				
		eS	ZN 49				4.92
	CB	eP	E 23 06 21				
		eS	E 07 02				4.68
	KM	e	X 23 06(40)				
	GP	eP	N 23 06 47				4.97
		eS	N 07 49				5.60
	Epicentre		23 05 25	38.4S 175.6E 172km			NZ(C) 5.0
8	TU	eP	Z 10 34 54				
		eS	Z 35 44				
	ON	eP	E 10 34 56				
	KP	iP	Z 10 34 56 ¹ d				
	CT	iP	Z 10 35 08				
		e	Z 15				
		e	Z 36 31				
	WN	ePn	ZN 10 35 31				5.90

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	e	Z	40				
	e	ZN	49				
	e	Z	58				
	eSn	ZN	36 55				
	e	Z	37 16				
	es*	Z	29				
CB	eP	E	10 35 48				
	es	E	37 15				5.45
GP	eP	N	10 36 17				
	es	N	37 58				5.90
RX	eP	Z	10 37 07				
	es	Z	39 03				
	eL	E	40.5				
	eL	N	41.5				
	eL	Z	42.0				
SU	eL	N	10 42 30				
Epicentre			10 33 42	35.0S 179.5W N	NZ(D) 5.7		
				Brisbane, Canberra, Charters Towers, and Riverview readings used to determine epicentre.			
8	CT	eP	Z 21 00 02				
	KP	eP?	Z 21 00 06				
	RX	es	NE 21 09 26				
	eL	NE	21				
Epicentre			20 48 38.1	44.9S 79.4W 25km	USCGS	3 22	
9	SU	eP	N 06 58 29				
	IS	N	59 28 n				
ON	eP	E	07 01 00				
KP	iP	Z	07 01 14 u				
	e(S)	Z	04 38				
	eScP	Z	08 00				
TU	eP	Z	07 01 16½				
	e(s)	Z	04 30				
CT	eP	Z	07 01 23				
	e(s)	Z	04 52				
	eScP	Z	08 03				
WN	eP	ZNE	07 01 41				
	es	ZN	05 16				
	eScP	Z	08 10				
CB	eP	E	07 01 45				
	es	E	05 27				
GP	eP	N	07 02 07				
	eScP	N	08 25				
RX	eP	Z	07 02 31				
	eScP	Z	08 26				
Epicentre			06 57 08.7	18.4S 178.7W 472km	USCGS		
9	ON	eP	E 17 32 35				
SU	e(S)	N	17 32 50				
KP	iP	Z	17 32 50 d				
	es	Z	35 26				
TU	eP	Z	17 32 51				
	e	Z	52½				
	es	Z	35 24				
CT	eP	Z	17 33 00				
	es	Z	34				
WN	eP	ZNE	17 33 22				
	es	ZNE	36 20				
CB	eP	E	17 33 28½				
	es	E	36 34				
GP	eP	N	17 33 52				
	es	N	37 13				
Epicentre			17 30 02.0	24.5S 179.6W 586km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR 9	KP	eP	Z 22 15 19				
	CT	eP	Z 22 15 25				
	CB	eP	E 22 15 26				
	TU	eP	Z 22 15 31				
	WN	eP	Z 22 15 34				
	GP	eP	N 22 15 40				
	RX	eP	Z 22 15 40				
	eL	E	22.2				
	eL	N	24.4				
	Epicentre		22 07 35.6	5.8S 146.4E 76km			USCGS
10	RX	eP	Z 01 17 42				
	e?	Z	18 28				
	eL	NE	22.0				
	eL	Z	25.0				
	GP	eP	N 01 17 50				
	WN	eP	E 01 17 56				
	eL	Z	27.5				
	KP	eP	Z 01 18 32				
	Epicentre		01 12 45	65S 171½W N			Australian Bureau of Mineral Resources
10	TU	eP	Z 05 01 25				
	eS	Z	02 54				
	KP	eP	Z 05 01 36				
	CT	eP	Z 05 01 59				
	eS	Z	03 24				
	WN	eS	ZNE 05 04 00				
	CB	eS	E 05 04 21½				
	GP	eS	N 05 05 06				
	Epicentre		04 59 27.5	31.2S 178.3W 69km			USCGS
10	ON	eP?	E 12 13 14				
	KP	eP	Z 12 14 02				
	TU	eP	Z 12 14 13				
	CT	eP	Z 12 14 13				
	GP	eP	N 12 14 44				
	RX	eP?	Z 12 15 12				
	eLq	E	25.4				
	eLq	N	26.4				4.7 16
	eLr	Z	29				
	WN	eL	Z 12 26.8				
	Epicentre		12 08 07.1	11.0S 165.6E 25km			USCGS
10	TU	iP	Z 21 31 00 d				
	KP	iP	Z 21 31 10 d				
	CT	eP	Z 21 31 15 d				
	e	Z	23				
	ON	eP	E 21 31 35				4.30
	eS	E	32 17				
	WN	ePn	Z 21 31 38				5.25
	eP*	ZNE	51				
	eSn	ZNE	32 24				
	eS*	Z	43				
	CB	eP	E 21 31 56				
	eS	E	32 48				
	GP	eP	N 21 32 17				
	eS	N	33 29				
	Epicentre		21 30 40	38.0S 177.9E S NZ(C) 5.0			
				Charters Towers readings used to determine epicentre.			
				Felt: Te Puia Springs (37)MM III			
11	SU	eP	N 07 20 35				
	eS	N	21 41				
	ON	eP?	E 07 23 48				
	eS?	E	27 53				
	KP	eP	Z 07 24 04				
	TU	eP	Z 07 24 13				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	CT	eP	Z 07 24 14½				
	GP	eP?	N 07 25 09				
	RX	eL	NE 07 32.0				
	Epicentre		07 18 56.7	13.98	172.1E	133km	5.9 18
11	TU	iP	Z 07 56 35½ d				
		eSn	Z 47				
	CT	iPg	Z 07 56 37½ d				
	KP	iPg	Z 07 56 41 d				
	WN	ePn	ZNE 07 57 01				5.10
	e	ZNE	10				
	e	Z	14				
	e	ZNE	21				
	eSn	ZNE	32				
	e	ZNE	51				
ON	eP	E	07 57 12				
	eS	E	51				
CB	ePn	E	07 57 12				
	ePg	E	28				
	eSn	E	53				
	eSg	E	58 16				
KM	ePn?	X	07 57 36				
	eP	X	40				
	eSn	X	33				
	e	X	59 17				
GP	eP	N	07 57 37				
	eS	N	58 36½				
	e	N	59 05				
RX	e(S)	Z	07 59 45				
	Epicentre		07 56 21	38.8S	176.2E	N	NZ(D) 5.1
				Canberra and Charters Towers readings			
				used to determine epicentre.			
				Felt: Wairoa MM IV, Gisborne MM II			
11	KP	eP	Z 15 36 29				
	TU	eP	Z 15 36 31				
	Epicentre		15 23 40.7	52.3N	178.0E	135km	USCGS
11	KP	eP	Z 16 26 18½				
	TU	eP	Z 16 26 25				
	Epicentre		16 16 24.1	19.4N	144.9E	428km	USCGS
11	ON	e?	E 19 29 45				
	KP	eP	Z 19 29 47				
	eP?	Z	30 02				
	TU	eP	Z 19 29 57				
	e?	Z	30 19				
	e?	Z	29				
CT	eP	Z	19 29 58				
	eP?	Z	30 10				
RX	eP	Z	19 30 00				
	eS	NE	38 40				
	eSS	NE	43.5				
	e(SSS)	NE	46 16				
	e(Lq)	NE	50.9				
	eLr	ZN	54.4				
CB	eP	E	19 30 02				
KM	eP	X	19 30 06				
GP	eP	N	19 30 07				
WN	eP	Z	19 30 07				
	ePP	Z	32 42				
	eS	Z	39 22				
	eL	Z	52 08				
	e(P'P')	Z	58 41				
SU	eS	N	19 37.0				
	eScS	N	38				
	eL	N	43.0				
Epicentre			19 19 05.6	9.0N	126.7E	25km	USCGS

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR 11	KP	eP	Z 20 09 19				
	KM	e?	X 20 09 21				
	e?	X	52				
	CT	eP	Z 20 09 29				
	TU	eP	Z 20 09 30				
	Epicentre		19 58 49.6	8.7N	126.3E	171km	USCGS
12	TU	ePP?	Z 11 58 32				
	CT	ePP	Z 11 58 36½				
	KP	ePP	Z 11 58 37				
	RX	e	N 12 07 07				
	e(Ps)	E	08 42				
	e(SS)	NE	14 35				
	e(Lq)	E	30.2				
	eLr	ZNE	34.0				
	Epicentre		11 40 12.8	8.1N	83.0W	113km	USCGS
12	RX	eL	NE 14 00.1				
12	KP	eP	Z 17 24 58				
	TU	eP	Z 17 25 08				
	CT	eP	Z 17 25 10				
	Epicentre		17 20 07.8	16.1S	168.2E	172km	USCGS
13	KP	eP	Z 11 39 40½				
	CT	eP	Z 11 39 45				
	WN	eP	Z 11 39 47				
	GP	eP	N 11 39 49				
	TU	eP	Z 11 39 49				
	ON	e	E 11 41 22				
	Epicentre		11 29 48.6	2.9N	128.8E	152km	USCGS
13	ON	e	E 05 38 40				
	SU	e(S)	N 05 38 53				
	KP	eP	Z 05 39 03				
	TU	eP	Z 05 39 19				
	CT	eP	Z 05 39 19				
	CB	eP	E 05 39 37				
	WN	eP	ZNE 05 39 38				
	GP	eP	N 05 40 03				
	RX	eP	Z 05 40 20				
13	KP	eP	Z 22 15 06				
	TU	eP	Z 22 15 08				
	eS	Z	16 22				
	CT	eP	Z 22 15 18				
	WN	eS	ZNE 22 17 22				
	CB	eS	E 22 17 37				
	GP	eS	N 22 18 25½				
	Epicentre		22 13 54	34.2S	179.1E	N	NZ(D) 5.0
14	KP	eP	Z 08 38 03				
	Epicentre		08 27 22.4	8.8N	126.8E	28km	USCGS
14	RX	e(P)	Z 00 34 41				
	KP	e(P)	Z 00 36 11				
	e	Z	32				
15	SU	e	N 13 08 33				
	KP	eP	Z 13 10 44				
	e	Z	12 09				
	TU	eS	Z 13 13 46				
	Epicentre		13 07 06.9	20.6S	178.8W	623km	USCGS
15	CT	eP	Z 21 24 10				
	e	Z	20				
	Epicentre		21 13 04.1	7.1S	106.1E	83km	USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tr	Ae Te	Mag
MAR 15	CT	eP	Z 23 04 15½				
Epicentre			22 58 08.3	10.58	162.6E	100km	USCGS
16 SU	e(L)	N	07 32.1		7.0	7	
16 SU	e(P)	N	15 26 50				
	e(S)	N	28 10				
	eL	N	29 50				
ON	eP	E	15 29 02				
	e?	E	30 30				
KP	eP	Z	15 29 32				
TU	eP	Z	15 29 53				
CT	eP	Z	15 29 46				
WN	eP	Z	15 30 06				
	eL	Z	36.3				
KM	e?	X	15 30 28				
	e?	X	55				
RX	eP	Z	15 30 54				
	eL	E	35.3				
	eL	N	38.5				
	eL	Z	39.4				
Epicentre			15 26 00.6	21.78	173.0E	216km	USCGS
16 SU	eP	N	19 46 18				
	e(L)	N	49.0		56	24	
ON	eP	E	19 48 15				
	e?	E	29				
KP	eP	Z	19 48 34				
	e	Z	42				
	e(pP)	Z	45				
	e(ScP)	Z	55 26				
	e(sScP)	Z	46				
TU	iP	Z	19 48 45½ d				
	epP	Z	55½				
CT	eP	Z	19 48 46				
	epP	Z	56				
	eS	Z	53 50				
WN	eP	Z	19 49 01				
	e	ZN	07				
	eS	N	54 04				
	eL	Z	20 00.1				
CB	e(pP)	E	19 49 09				
	eS	E	54 00				
KM	eP	X	19 49 11				
	e(pP)	X	23				
	eS	X	54 19				
	e?	X	59 32				
GP	eP	N	19 49 19				
	e	N	54 36				
RX	eP	Z	19 49 32				
	epP	Z	40½				
	eS	NE	55 16				
	eL	NE	58.4				
	eL	Z	20 01.6				
Epicentre			19 42 39.2	5.4 14	4.6 16	8.2 19	USCGS
16 SU	eL	N	21 43.0		19	6	
17 TU	eP	Z	04 20 26				
	e	Z	35				
KP	eP	Z	04 20 28				
ON	eP	E	04 20 30				
CT	eP	Z	04 20 40				
	e	Z	52				
WN	eS	ZNE	04 22 52				
CB	eS	E	04 23 15				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	Epicentre		04 18 35	33½S 177W N			NZ(D) 5.0
				Charters Towers, Brisbane, Umea, Helsinki, Nurmijarvi, and Kajaani readings used to determine epicentre.			
17 TU	e(P)	Z	18 39 41				
	e(S)	Z	41 04				
ON	e(P)	E	18 39 48				
	KF	Z	18 39 57				
	CT	Z	18 40 06				
	WN	ZNE	18 42 08				
17 WN	eP'	Z	21 06 56				
	ePP	Z	09 29	2.1	6		
	eSKP	Z	10 30	3.0	8		
	e?	Z	11 54	3.2	7		
	e	Z	20 48	2.9	8		
	e(SKKS)	Z	22 46	2.8	7		
	eSS	Z	28 02	2.3	10		
	e(Lq)	Z	48 38	3.0	8		
	eLr	Z	54 30	27	18		
	CT	Z	21 06 59				
	TU	Z	21 07 04				
	KP	Z	21 07 09				
	RX	eP'	Z 21 07 09				
	e	E	21 22 33				3.22
	e(SKKS)	E	24 31				3.3 22
	e	ZNE	26 00				6.0 26
	e	ZNE	30 36				6.7 10
	e	NE	35 40				18 26
	e	E	39 24				9.27
	eLq	NE	46 12				9.3 23
	e(Lr)	Z	56.9				8.4 25
	eLr	Z	22 05.6				13 30
	SU	e(PKS)	N 21 10 42				12 25
	Epicentre		20 47 31.7	10.6N 43.7W 25km			USCGS
17 ON	e(P)	E	21 32 14				
	KP	eP	Z 21 32 46				
	e	Z	52				
	CT	eP?	Z 21 32 55				
	e(P)	Z	33 07				
	TU	e(P)	Z 21 33 02				
	SU	eS	N 21 33 06				
	Epicentre		21 29 14.2	22.3S 169.7E 100km			USCGS
18 ON	eP	E	00 42 43½				5.25
	TU	eP	Z 00 42 51				
	e	Z	44 31½				
	e	Z	33				
	KP	eP?	Z 00 42 51½				
	e	Z	59				
	CT	eP	Z 00 42 55				
	e	Z	43 23				
	e	Z	44 58				
	GP	e?	N 00 44 07				
	eS	N	46 42				
	RX	eP	Z 00 44 44				
	WN	eS	ZNE 00 45 40				
	CB	eS	E 00 45 56				
	KM	eS	X 00 46 36				
	Epicentre		00 40 10				
16 ON	eP	E	01 29 30				
	CT	e?	Z 01 29 39				
	e	Z	32 27				
	30S	176W N					NZ(D) 5.7
							Charters Towers, Brisbane, Uppsala, Skalstugan, Umea and Kiruna readings used to determine epicentre.

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	KP	eP	Z 01 29 46				
TU	e?	Z	01 29 56				
	e	Z	31 45				
WN	eS	NE	01 32 50				
Epicentre			01 26 51.0	27.78	177.3W	89km	
18 SU	e	N	02 24 22				
18 SU	iP	N	03 09 06 n				
	iS	N	10 46 s				
	eL	N	11 24		67 12		
ON	eP	E	03 10 56				
	eS	E	14 55				
	eL	E	16 51				
KP	eP	Z	03 11 17				
	ePcP	Z	14 16				
	e?	Z	16 22				
	e?	Z	18 39				
TU	eP	Z	03 11 30				
CT	eP	Z	03 11 30½				
WN	eP	ZNE	03 11 47				
	e?	Z	17 30				
	e(ScP)	Z	19 08				
	eLr	Z	36				
CB	eP	E	03 11 55				
KM	eP	X	03 12 13				
RX	eP	Z	03 12 26				
	eLq	NE	17.0				
	e(Lr)	NE	19.2				
	eLr	Z	20.5				
Epicentre			03 06 39.4	32 13	16.18	167.2E	200km
18 SU	eS	N	13 41 36				
	eL	N	42.8				
	M	N	44				
ON	eP	E	13 41 52				
KP	eP	Z	13 42 22				
TU	eP	Z	13 42 33½				
CT	eP	Z	13 42 41				
KM	eP	X	13 43 27				
RX	eL	NE	13 49				
Epicentre			13 38 40.8				
18 KP	eP	Z	15 05 45				
CT	eP?	Z	15 05 49				
TU	eP?	Z	15 05 56				
Epicentre			14 54 59.3				
18 RX	ePKP	Z	15 51 00				
KP	ePKP	Z	15 51 15				
CT	ePKP	Z	15 51 16				
TU	ePKP	Z	15 51 19				
Epicentre			15 30 31.6				
18 KP	iP!	Z	16 10 04				
TU	iP	Z	16 10 07				
	eS	Z	24				
CT	iP	Z	16 10 08 u				
ON	eP	E	16 10 26				
	eS	E	11 00				
WN	eP	ZNE	16 10 30				
	eS	ZNE	11 09				
CB	eP	E	16 10 39				
	eS	E	11 24				
KM	eP	X	16 11 03				
	eS	X	12 00				
GP	eP	N	16 11 05				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR		eS	N	12 11			
	RX	e	Z	16 13 15			
	Epicentre			16 09 39	38.3S	176.1E	180km
					Felt:	Lowry Bay (68)	NZ(c) 5.5
18 CT	eP	Z	20 31 28½				
TU	eP?	Z	20 31 31				
	Epicentre			20 18 54.3	23.7N	114.5E	43km
18 SU	e(L)	N	20 46 20				
19 RX	eP	ZNE	04 53 42				
	e?	Z	56				
	eS	NE	57 08				
	e(L)	N	58 00				
	eLr	ZNE	58.5				
	M	ZNE	59				
KM	e(P)	X	04 54 30				
WN	eP	ZE	04 54 43				
	eL	Z	05 02.3				
CT	eP	Z	04 55 07				
TU	eP	Z	04 55 11				
ON	eP?	E	04 55 37				
	SU	eL	N 05 11.8				
	Epicentre			04 49 31.7	57.3S	147.2E	25km
19 ON	eP	E	06 04 29				
CB	eP	E	06 04 33				
	eScS	E	14 10				
RX	eP	Z	06 04 35				
	e	Z	05 02				
	e(ScP)	Z	09 07				
	eS	E	12 38				
	e(L)	N	19.5				
	e?	N	22 14				
KM	eP	X	06 04 36				
	eS	X	12 37				
KP	eP	Z	06 04 37				
	e(PcP)	Z	05 11				
	eScP	Z	09 09				
CT	eP	Z	06 04 40				
	e	Z	05 54½				
	eScP	Z	09 11				
	e	Z	14 22				
WN	eP'P'	Z	33 51				
	eP	ZNE	06 04 41				
	e(PcP')	ZNE	06 05 08				
	eS	ZNE	12 48				
	e?	Z	13 06				
	eScS	NE	14 20				
TU	eP	Z	06 04 46				
	e(PcP)	Z	05 13				
	eS	Z	13 07				
Epicentre			05 54 24.4		0.3N	123.5E	53km
19 ON	eP	E	08 09 22				4.70
KP	eP	Z	08 09 31				
	e?	Z	10 56				
TU	eP	Z	08 09 32				
	eS	Z	10 53				
CT	eP	Z	08 09 41				
	eS	Z	11 06				
WN	eS	ZE	08 11 47				
	CB	eS	E 08 12 01				
	KM	eS	X 08 12 38				
	Epicentre		08 07 47		33S	179W	400km
							NZ(D) 5.3
							Umea readings used to determine epicentre.

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR 19	ON	eP	E 08 45 15				
	KP	eP	Z 08 45 28				
	e	Z	31				
	e	Z	48 07				
TU	eP	Z	08 45 33				
	e(S)	Z	48 15				
CT	eP	Z	08 45 40				
	e	Z	48 23				
WN	eS	ZN	08 48 57				
CB	eS	E	08 49 03				
KM	eS	X	08 49 32				
19	ON	eP	E 15 36 19				
	eS	E	37 38				5.30
	IP	Z	15 36 30 $\frac{1}{2}$				
	e	Z	37 54				
TU	eP	Z	15 36 31				
	e	Z	37 52 $\frac{1}{2}$				
	eS	Z	38 00				
CT	eP?	Z	15 36 40				
	eP	Z	42				
	e	Z	38 17				
WN	eP	ZNE	15 37 02				
	eS	ZNE	38 53				6.28
CB	e(P)	E	15 37 10				
	eS	E	39 06				
KM	eP	X	15 37 30				
	eS	X	39 42				
RX	e(P)	Z	15 38 24				
	eS	Z	40 51				
Epicentre			15 34 40	31.5S 180	400km	NZ(D) 5.8	
19	KP	eP	Z 21 08 49				
CT	IP	Z	21 08 50 d				
TU	eP?	Z	21 08 56				
Epicentre			20 57 24.2	4.3S 103.1E	100km	USCGS	
20	RX	eL	NE 11 32				1.6 18
20	KP	eP	Z 19 03 45				
CT	eP?	Z	19 03 52				
TU	eP	Z	19 03 53				
Epicentre			18 52 55.8	22.8N 143.2E	98km	USCGS	
21	SU	e	N 02 32 52				
	e(L)	N	34.4				
	KP	eP	Z 02 34 10				
	TU	eP	Z 02 34 31				
	e(S)	Z	38 23				
	WN	eP	Z 02 34 49				
	eL	Z	41.2				
	M	Z					4.2 15
AK	e	N	02 37 45				
	eL	N	42 38				
RX	eS	NE	02 39 20				3.5 11
	eLq	NE	41.0				
	eLr	Z	43.5				
	M	NE	44				
Epicentre			02 30 18.5	2.8 15	3.2 13	USCGS	
21	KP	eP	Z 03 26 06				
	e?	Z	19				
Epicentre			03 18 29.1	6.6S 150.1E	25km	USCGS	
21	SU	eP	N 22 56 48				
	eS	N	57 40				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR 21	RX	eP	Z 23 07 18 $\frac{1}{2}$				
	eS	NE	15 00				
	e	NE	22.6				
	CB	eP?	E 23 07 26				
	eS	E	15 15				
	KP	eP	Z 23 07 35				
	e(pP)	Z	09 38				
	WN	eP	ZN 23 07 35				
	eS	N	15 28				
	CT	eP	Z 23 07 36				
	e?	Z	09 44				
	TU	eP	Z 23 07 42 $\frac{1}{2}$				
	eP	Z	09 47				
	eS	Z	15 45				
	KM	e(s)	X 23 15 05				
	Epicentre		22 57 51.2	5.9S 113.0E	631km	USCGS	
22	CT	eP	Z 00 29 03				
	ePcP	Z	30				
	RX	eP	Z 00 29 12				
	e(PcP)	Z	45				
	e(PP)	NE	31 10				
	e	NE	35 20				
	e	NE	40 34				
	e	NE	44.7				
	CB	eP	E 00 29 20				
	eS?	E	37 09				
	ON	eP	E 00 29 21				
	KM	eP	X 00 29 22				
	WN	eP	ZN 00 29 27 $\frac{1}{2}$				
	e(s)	N	37 24				
	KP	eP	Z 00 29 28				
	TU	eP	Z 00 29 35				
	e(pP)	Z	31 35				
	Epicentre		00 19 43.1	5.9S 112.9E	611km	USCGS	
22	RX	eP	Z 00 47 04				
	e(PcP)	Z	36				
	KP	eP?	Z 00 47 19 $\frac{1}{2}$				
	TU	eP	Z 00 47 27				
	Epicentre		00 37 36.8	6.0S 113.0E	595km	USCGS	
22	KP	eP?	Z 01 55 37				
	TU	eS	Z 01 59 48				
	Epicentre		01 50 52.4	18.9S 173.1W	60km	USCGS	
22	KP	eP	Z 06 26 18				
	CT	eP	Z 06 26 28				
	TU	eP	Z 06 26 30				
	Epicentre		06 21 08.1	15.8S 167.6E	15km	USCGS	
22	SU	IP	N 08 42 25				
22	KP	eP	Z 12 10 04				
	e	Z	10				
	CT	eP	Z 12 10 15				
	e	Z	20				
	TU	e(P)	Z 11 05				
	e	Z	12 10 22				
	RX	eP	Z 12 11 03				
	e	Z	08				
	eL	NE	18.0				
	Epicentre		12 05 03.2	16.3S 167.5E	45km	USCGS	

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR 22	ON	eP	E 15 21 20				
	ePP	E	23 09				
	eL	E	37 08				
KP	eP	Z	15 21 29 ¹				
		Z	34 ¹				
CB	eP	E	15 21 34				
	eS	E	28 22				
	eL	E	38				
CT	eP	Z	15 21 36				
	eS	Z	28 28				
TU	eP	Z	15 21 40				
	e	Z	46				
WN	eP	Z	15 21 41				
	e	ZN	47	3.3 8			
	e	Z	22 40	2.8 6			
	e(PP)	Z	23 46	3.8 5			
	eS	ZN	28 36	1.8 5			
	eL	Z	39.7				
	M	Z	40	27 21			
RX	e(P)	Z	15 21 46				
	eS	NE	28 46				
	e	E	29 50		7.0 24		
	eLq	NE	31.3			4.5 17	
	eLr	Z	37.0	25 24			
KM	e	X	15 22 09				
	eS	X	28 26				
	eL	X	41				
SU	e	N	15 23 21			6 4	
	eS	N	26 45			6.5 6	
	e(SS)	N	29 30			12 6	
	eL	N	31.3			30 19	
Epicentre			15 13 03.9	3.28	142.3E	25km	USCGS 5.1(M)
22	KP	eP	Z 16 25 12				
TU	eP	Z	16 25 22				
CT	eP	Z	16 25 18				
Epicentre			16 16 26.4	2.18	139.3E	44km	USCGS
22	TU	eP	Z 18 35 39				
	eS	Z	36 35				
KP	eP	Z	18 35 44				
CT	eP	Z	18 35 52				
	e	Z	37 06				
WN	e	ZN	18 37 43				
CB	e	E	18 38 06				
KM	e?	X	18 38 47				
Epicentre			18 34 40	35.8	179.4W	N	NZ(D) 5.1
22	RX	eP	Z 19 11 38				
CT	eP	Z	19 11 41				
KP	eP	Z	19 11 45				
Epicentre			18 59 00.8	28.18	67.5W	217km	USCGS
22	TU	eP	Z 21 24 16				
	e	Z	29 ¹				
	eS	Z	25 01				
KP	eP	Z	21 24 20				
CT	eP	Z	21 24 29				
ON	eS	E	21 25 13				
WN	eS	ZNE	21 26 08				
CB	eS	E	21 26 28				
KM	eS	X	21 27 06				
Epicentre			21 23 31	36.38	179.0E	N	NZ(D) 5.0
23	SU	e	N 00 16 55				
ON	eP	E	00 19 29				
KP	eP	Z	00 19 42				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	CT	eP?	Z 00 19 57				
	WN	eP?	N 00 20 09				
	Epicentre		00 15 34.4	17.4S	178.9W	576km	USCGS
23	CT	eP	Z 05 46 42				
	KP	eP	Z 05 46 52				
	Epicentre		05 34 40.5	38.0S	72.8W	67km	USCGS
23	ON	eP	E 14 47 45				
	KP	eP	Z 14 48 10				
	CT	eP	Z 14 48 24				
	TU	eP?	Z 14 48 35				
	e(P)	Z	38				
	CB	eP	E 14 48 58				
	WN	eP	ZN 14 48 47				
	RX	eP	Z 14 49 34				
	eL	NE	53.8				
	M	NE	55				
	Epicentre		14 45 27.6	28.5S	167.6E	23km	USCGS
23	SU	iS	N 15 11 32 n				
ON	eP	E	15 11 44				
	e(S)	E	14 11				
	KP	eP	Z 15 12 00				
	TU	eP	Z 15 12 03				
	e(S)	Z	14 46				
	CT	eP	Z 15 12 10				
	e	Z	15 05				
	WN	eP	ZNE 15 12 29 ¹				
	eS	NE	15 30				
	CB	eP	E 15 12 34				
	eS	E	15 37				
	KM	eP	X 15 12 50				
	RX	eP	Z 15 13 17 ¹				
	Epicentre		15 08 45.5	22.8S	179.4E	608km	USCGS
23	KP	e	Z 19 22 06				
	TU	e?	Z 19 22 09				
	e	Z	23 48				
	CT	e	Z 19 22 13				
	WN	e	ZNE 19 24 44				
	CB	e	E 19 25 01				
	ON	e?	E 19 25 36				
	KM	e	X 19 25 37				
24	SU	e(S)	N 01 37 51				
	e(L)	N	39 31				
	ON	eP	E 01 38 53				
	e	E	42 50				
	KP	eP	Z 01 39 08				
	TU	eP	Z 01 39 10				
	eS	Z	43 17				
	CT	eP	Z 01 39 18				
	KM	eP	X 01 40 10				
	RX	eL	E 01 50.7				
	eL	N	52.1				
	Epicentre		01 34 07.9	17.8S	173.0W	25km	USCGS
24	SU	e	N 13 07.0				
	eL	N	12.3				
	ON	eP	E 13 07 01				
	e	E	41				
	KP	iP	Z 13 07 19 d				
	e(ScP)	Z	12 55				
	CB	eP	E 13 07 24				
	eS	E	13 45				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	CT	iP	Z 13 07 26 d				
	i	Z	08 00				
	e(ScP)	Z	12 57				
	eS	Z	13 54				
KM	eP	X	13 07 29				
	eS	X	13 49				
TU	eP	Z	13 07 31				
	e(ScP)	Z	13 02				
RX	eP	Z	13 07 37				
	e(ScP)	Z	13 08				
	eS	ZNE	14 08				
	e(S)	NE	17 30				
	eLq	NE	21 3				
	M	NE	23	3 22	3.3 20		
	eLr	Z	26 6				
	M	Z	27	4.8 15			
WN	eP	ZNE	13 07 41				
	eS	ZNE	14 04				
Epicentre			12 59 30.9	5.7S	145.0E	111km	USCGS
24	KP	e(P)	Z 05 50 03				
	TU	eP?	Z 05 50 11				
	CT	e(P)	Z 05 50 19				
24	CT	e	Z 19 42 53				
	WN	e	ZNE 19 43 42				
24	ON	eP	E 19 51 02				
	KP	eP	Z 19 51 09				
	CT	eP	Z 19 51 17				
	KM	e	X 19 51 46				
	WN	e?	Z 19 51 51				
25	KP	eP	Z 11 06 07				
	CT	eP	Z 11 06 16				
	TU	eP	Z 11 06 17½				
	WN	e?	Z 11 06 28				
	e	Z	32				
	e	Z	38				
Epicentre			11 00 19.0	11.3S	165.7E	85km	USCGS
25	KP	eP	Z 08 25 32				
Epicentre			08 12 38.0	51.2N	169.8W	45km	USCGS
25	RX	e(P)	Z 14 28 57				
	WN	e(P)	Z 14 29 18				
	CT	e(P)	Z 14 29 26				
	TU	e(P)	Z 14 29 29				
	KP	e(P)	Z 14 29 32				
25	KP	eP	Z 21 54 44				
	CT	eP?	Z 21 54 54				
	WN	eP	Z 21 55 03				
Epicentre			21 44 40.8	1.6N	127.2E	60km	USCGS
26	KP	eP	Z 03 20 44				
	TU	eP	Z 03 20 52				
Epicentre			03 10 53.5	0.5S	127.6E	55km	USCGS
26	KP	eP	Z 15 28 19				
	CT	eP	Z 15 28 26				
	CB	eP	Z 15 28 27				
	TU	eP	Z 15 28 31				
	WN	eP	ZN 15 28 35				
Epicentre			15 20 41.8	5.5S	148.1E	122km	USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR 26	RX	eP	Z 16 44 36				
	eLq		NE 54.8				
	eLr		ZNE 17 08				
	M		ZNE 09				
	WN	eP	Z 16 44 37				
	TU	eP	Z 16 44 41				
	CT	eP	Z 16 44 43				
	CB	eP	E 16 44 46				
	KP	eP	Z 16 44 48				
	epP		Z 45 03				
	KM	eP?	X 16 45 05				
	Epicentre		16 32 43.6	40.6S	73.3W	32km	USCGS
26	CT	eP?	Z 05 25 12½				
	eS		Z 27 12				
	TU	eS	Z 05 26 49½				
	WN	eS	ZNE 05 27 51				
	CB	eS	E 05 28 38½				
27	KP	eP	Z 05 31 49½				
	CT	eP	Z 05 31 54				
	TU	eP	Z 05 32 00				
	Epicentre		05 22 32.0	3.9S	129.1E	96km	USCGS
27	KP	eP	Z 14 54 04				
	CT	eP	Z 14 54 15				
	Epicentre		14 50 15.2	20.3S	177.6W	510km	USCGS
27	CT	eP	Z 16 15 12½				
	e		Z 15				
	KP	IP	Z 16 15 14½ d				
28	CT	eP	Z 04 17 36½				
	e		Z 43				
	KP	eP	Z 04 17 38				
	RX	eL	NE 04 47				
	Epicentre		04 05 24.6	1.4N	97.5E	74km	USCGS
28	ON	eP	E 06 19 20				
	e		Z 21 03				
	KP	iP	Z 06 19 34½ u				
	TU	eP	Z 06 19 36				
	e(s)		Z 21 28				
	e(s)		Z 31				
	CT	eP	Z 06 19 44				
	eS		Z 21 44				
	TO	eP	Z 06 19 44				
	eS		Z 21 51				
	WN	eP	ZNE 06 20 07				
	eS		ZNE 22 25				
	CB	eP	E 06 20 14½				
	e(s)		Z 22 35				
	e(s)		Z 38				
	KM	eP	X 06 20 33				
	eS		Z 23 08				
	RX	eP	Z 06 21 04½				
	eS		Z 24 19				
Epicentre			06 17 10.2	28.7S	179.9W	375km	USCGS
28	TU	eP	Z 14 14 17				
	eS		Z 15 29				
	ON	eP	E 14 14 20				
	e		Z 25				
	KP	eP	Z 14 14 38				
	e		Z 33				
	CT	eP	Z 14 14 30				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	TO	eP	Z 14 14 31				
	e	Z	16 01				
WN	eP	ZNE	14 14 58½				5.6
	eS	ZNE	16 40				
RX	eP	Z	14 16 23				
	eS	Z	18 50				
	eL	NE	20 5				
	eL	Z	22 5				
CB	eS	E	14 17 01				
KM	eS	X	14 17 40				
SU	eL	N	14 21 35				
Epicentre			14 12 46				
				33.5S 178.0W 100km NZ(D) 5.4 Charters Towers, Brisbane, Canberra, Uppsala, Skalstugon and Umea readings used to determine epicentre.			
28	TU	eP	Z 18 36 08				
	eS	Z	37 22				
ON	eP	E	18 36 11				
	e	E	28				4.83
KP	eP	Z	18 36 11				
CT	eP	Z	18 36 24				
	e	Z	37 47				
TO	eP	Z	18 36 25				
	e	Z	37 47				
RX	eP	Z	18 38 13				
	eL	NE	42.8				
WN	eS	ZNE	18 38 30				
CB	eS	E	18 38 51				5.53
KM	eS	X	18 39 31				5.50
Epicentre			18 34 32	33.5S 178W N	NZ(D) 5.3		
29	KP	eP	Z 02 05 13				
Epicentre			01 52 25.4	51.8N 157.2E 155km	USCGS		
29	TU	eP	Z 09 18 27				
	eS	Z	19 38				
KP	eP	Z	09 18 31				
	e	Z	36				
CT	eP	Z	09 18 41				
	e	Z	54				
	e	Z	19 02				
	e	Z	30				
RX	eP	Z	09 20 34				
	eL	NE	25				
	eL	Z	27				
WN	eS	ZNE	09 20 51				
KM	eS	X	09 21 51				5.12
Epicentre			09 16 55	33.5S 178.5W 70km NZ(D) 5.2 Charters Towers, Uppsala, and Umea readings used to determine epicentre.	5.27		
29	KP	eP?	Z 20 18 35				
	e(P)	Z	53				
CT	eP	Z	20 18 59				
TO	eP	Z	20 19 01				
TU	eP	Z	20 19 04				
RX	eP	Z	20 19 08				
	e(S)	N	26 23				
	e	E	42				1.2 21
	e(L)	N	33.4				
	eLq	NE	36.9				3.0 22
	eLr	Z	41.6				
Epicentre			20 09 01.9	5.9 20	1.4 20	3.8 36	
				0.5S 127.4E 25km			
				USCGS			
29	TU	eP	Z 22 42 59				
CT	eP	Z	22 43 01				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAR	TO	eP	Z 22 43 01				
	Epicentre		22 38 27.8	20.1S 169.0E 51km			USCGS
30	SU	e(L)	N 08 02 3				
	KP	e(P)	Z 08 02 41				
	e	Z	(47)				
	TU	e(P)	Z 08 02 58				
	CT	eP	Z 08 03 01				
	TO	eP	Z 08 03 01				
	RX	e(Lq)	NE 08 08.5				
	e(Lr)	Z	12.5				
30	TU	eS	Z 12 02 00				
30	ON	eP	E 14 25 49				
	KP	eP	Z 14 26 02				
	TU	eP	Z 14 26 02				
	eS	Z	27 50				
	CT	eP	Z 14 26 10				
	i(S)	Z	28 20½ d				
	TO	eP	Z 14 26 11				
	e	Z	27 53				
		Z	28 28				
	WN	eP	ZNE 14 26 34				
	eS	ZNE	14 26 54				
	CB	eP	E 14 26 45				
	eS	E	29 09				
	KM	eP	X 14 27 07				
	eS	X	29 46				
	RX	eP	Z 14 27 27				
	eS	Z	30 40				
	Epicentre		14 23 33.6	28.7S 179.0W 292km			USCGS
31	KP	eP?	Z 02 54 08				
31	ON	eP	E 07 50 11				
	KP	eP	Z 07 50 15				
	TU	eP	Z 07 50 16				
	eS	Z	51 56				
	CT	e(P)	Z 07 50 31				
	eS	Z	52 25				
	TO	e(P)	Z 07 50 32				
	eS	Z	52 26				
	RX	eP	Z 07 52 09				
	WN	eS	ZNE 07 53 05				
	CB	eS	E 07 53 22				
	KM	eS	X 07 54 03				
31	RX	e(S)	E 08 05 26				
	eLq	NE	14.2				
	eLr	Z	23				
Epicentre			07 44 36.0	9.8N 121.6E 156km			USCGS
31	TU	eP	Z 12 14 31				
	TO	eP	Z 12 14 31				
	CT	eP	Z 12 14 31½				
	KP	eP	Z 12 14 35				
APR	1	ON	eP	E 12 19 03			
	CB	eP	E 12 19 21				
	e	E	47				
	TO	eP	Z 12 19 23				
	e	Z	56				
	CT	P	Z 12 19 23				
	TU	P	Z 12 19 58				
	SU	e(PP)	N 12 19 29				
		Z	32				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR	eL	N	27				
	WN	eP	ZE	12 19 32			
	e	ZE	20 00				
RX	eP	Z	12 19 33				
	e(S)	N	26 22				
	eL	NE	33				
KM	e(P)	X	12 19 37				
Epicentre			12 11 09.2	4.2S 143.6E 80km	USCGS		
1	SU	e	N 15 39 53				
CT	eP	Z	15 42 02				
TO	eP	Z	15 42 03				
	e	Z	29				
TU	eP	Z	15 42 04				
RX	eL	E	15 50				
	eL	N	51				
Epicentre			15 37 02.5	17.9S 167.2E 53km	USCGS		
2	CT	eP	Z 00 25 03				
TO	eP	Z	00 25 03				
TU	eP	Z	00 25 04				
WN	eP	Z	25 12				
RX	e(P)	Z	00 25 23				
Epicentre			00 14 50.4	18.6N 145.5E 205km	USCGS		
2	TO	eP	Z 18 41 44				
Epicentre			18 33 52.4	6.1S 146.7E 60km	USCGS		
3	SU	eP	N 16 28 40				
	e(S)	N	31 25				
ON	eP	E	16 30 44				
TU	eP	Z	16 31 04				
CT	eP	Z	16 31 04				
	e	Z	14				
	eS	Z	36 13				
TO	eP	Z	16 31 04				
	e	Z	14				
	eS	Z	36 11				
WN	e	Z	16 31 16				
	e	ZE	19				
	e	NE	24				
	eS	NE	36 33				
CB	eP	E	16 31 17				
	e(S)	E	36 26				
KM	eP	X	16 31 29				
	e	X	36				
RX	eP	Z	16 31 45				
	e	Z	32 00				
	eS	NE	37 24				
	eL	E	40				
	eL	ZN	42				
	M	E	45				
Epicentre			16 24 55.6	10.6S 164.9E 36km	USCGS	5.9	
3	TU	e(P)	Z 18 42 09				
TO	e	Z	18 42 19				
CT	e	Z	18 42 21				
RX	eP	Z	18 43 16				
	eL	E	18 50				
Epicentre			18 37 47.5	20.8S 169.4E 40km	USCGS		
4	ON	eP	E 02 00 15				
TU	eP	Z	02 00 17				
	e	Z	01 29				
CT	e?	Z	02 00 34				
	e	Z	43				
	e(S)	Z	02 26				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR	TO	e	Z 02 00 36				
	e(S)	Z	02 02 26				
	WN	eS	Z 02 02 37				
4 CT	eP	Z	09 32 23				
	eS	Z	35 31				
TO	eP	Z	09 32 24				
	eS	Z	35 26				
WN	eP	ZE	09 32 31				
	e	ZN	43				
	eS	NE	36 11				
TU	eS	Z	09 35 13				
Epicentre			09 28 30.4	22.0S 178.2W 268km	USCGS		
4 TU	eP	Z	12 01 39				
	e(S)	Z	02 57				
CT	eP	Z	12 01 49				
	e(S)	Z	03 16				
	e	Z	20				
TO	eP	Z	12 01 49				
	e	Z	03 14				
	e	Z	24				
WN	eP	Z	12 02 12				
	eS	ZNE	04 00				
	CB	eS	E 12 04 14				
Epicentre			11 59.9	Near 32°S 179°W 350km± NZ(D) Charters Towers Readings used to determine Epicentre.			
4 RX	eL	E	14 54				
Epicentre			14 02 32.2	8.0N 83.0W 23km	USCGS		
5 RX	eP	Z	12 36 09				
CT	eP	Z	12 36 15				
TO	eP	Z	12 36 15				
Epicentre			12 24 34.5	44.9S 75.3W 25km	USCGS		
5 ON	eP	E	19 50 40				
TU	eP	Z	19 51 15				
CT	eP	Z	19 51 15				
TO	eP	Z	19 51 15				
	CB	e(P)	E 19 51 31				
SU	e	N	19 52				
RX	eP	Z	19 52 01				
Epicentre			19 45 58.4	16.2S 167.5E 35km	USCGS		
5 TU	eP	Z	20 09 29				
CT	eP	Z	20 09 29				
TO	eP	Z	20 09 29				
6 CT	P	Z	04 30 14 u				
TO	eP	Z	04 30 14				
	TU	e	Z 04 30 15				
	e	Z	34				
	CB	e	Z 04 31 27				
	RX	eP	Z 04 31 27				
Epicentre			04 26 08.6	17.7S 178.8W 593km	USCGS		
6 CT	eP?	Z	06 59 04				
	e	Z	09				
TU	eP	Z	06 59 14				
Epicentre			06 50 52.6	4.2S 143.3E 63km	USCGS		
6 CT	eP	Z	14 16 22				
Epicentre			14 13 03.4	24.0S 179.5W 538km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR 6	RX	eS	E 17 09 22				
	eLq		N 16				
	eLr		E 19				
Epicentre			16 50 14.2	26.7S 113.2W 33km			
					USCGS		
6	ON	eP	E 20 27 37				
TU	eP		Z 20 27 55				
	e		Z 30 39				
	e		42				
CT	eP		Z 20 28 02				
WN	eP		Z 20 28 23				
CB	eP		E 20 28 27				
Epicentre			20 24 40.6	23.4S 179.7W 566km			
					USCGS		
7	TO	eP	Z 06 31 20				
TU	eP		Z 06 31 21				
WN	eP		Z 06 31 28				
e?			Z 46				
RX	e(S)	NE	06 40 18				
eL		NE	49				
M		E	51				
SU	eL	N	06 41 15 23	2 20			5.7
Epicentre			06 21 38.4	10.0N 144.4E 50km			6.1
					USCGS		
7	TO	eP	Z 08 09 17				
Epicentre			08 04 20.6	18.7S 168.7E 23km			
					USCGS		
7	SU	e	N 10 34 54				
Epicentre			10 32 28.1	15.2S 177.6W 446km			
					USCGS		
8	TO	eP	Z 00 58 32				
TU	eP		Z 00 58 33				
Epicentre			00 53 16.6	16.1S 167.3E 67km			
					USCGS		
8	TU	P	Z 04 37 07				
Epicentre			04 28 40.5	4.1S 141.5E 115km			
					USCGS		
8	SU	e	N 05 17 55				
ON	eP	E	05 19 11				
TU	eP	Z	05 19 26				
TO	eP	Z	05 19 34				
WN	eP?	Z	05 19 58				
e		ZN	20 00				
CB	eP	E	05 20 02				
RX	eP?	Z	05 20 51				
Epicentre			05 15 03.0	20.3S 175.7W 70km			
					USCGS		
8	TU	eP?	Z 08 12 35				
	e		Z 39				
	e		Z 43				
	e		Z 59				
	e(S)		Z 13 04				
	e		Z 11				
TO	eP?	Z	08 12 45				
	e		Z 50				
	e		Z 58				
	e(S)		Z 13 40				
ON	eP	E	08 12 48				
	e		Z 13 20				
CB	e(P)	E	08 13 27				
WN	e	NE	08 14 09				
					USCGS		
9	KP	eP	Z 04 24 24				
	epP		Z 25 10				
Epicentre			04 14 23.0	18.6N 145.5E 200km			
					USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR 9	RX	eP	Z 09 03 39				
	KM	eP	X 09 03 42				
	CB	eP	E 09 03 44				
	KP	P	Z 09 03 50				
	TO	P	Z 09 03 53				
	WN	eP	ZE 09 04 00				
	TU	eP	Z 09 04 00				
Epicentre			08 54 22.7	8.6S 124.1E 46km			
					USCGS		
9	KP	P	Z 20 19 13				
	TO	e?	Z 20 19 25				
Epicentre			20 15 45.0	21.0S 177.3W 630km			
					USCGS		
10	TU	eP	Z 04 49 11				
	epP		Z 04 49 45				
	RX	eP	Z 04 49 11				
	epP		Z 04 49 44				
	TO	eP	Z 04 49 14				
	epP		Z 04 49 47				
	KP	P	Z 04 49 17				
	epP		Z 04 49 50				
	e		Z 50 04				
	CB	eP	E 04 49 18				
	epP		Z 04 49 52				
Epicentre			04 36 27.5	28.6S 68.8W 130km			
					USCGS		
10	KP	eP?	Z 13 12 13				
	ON	e?	E 13 12 48				
	TU	e?	Z 13 12 59				
	e?		Z 14 33				
	e(S)		Z 14 36				
	CB	e(S)	Z 13 15 59				
Epicentre			13 10 34.6	30.1S 177.7W 46km			
					USCGS		
10	KP	eP	Z 14 41 08				
Epicentre			14 30 46.4	44.1N 73.1W 25km			
					USCGS		
10	SU	eS	N 17 10 05				
	ON	eP	E 17 11 39				
	KP	P	Z 17 11 50				
	TU	e(P)	Z 17 11 50				
	eS		Z 16 03				
	CT	eP?	Z 17 11 55				
	e		Z 17 11 58				
	WN	eP	Z 17 12 17				
	CB	eP	E 17 12 22				
	RX	eP	Z 17 13 07				
Epicentre			17 07 11.9	16.4S 175.3W 330km			
					USCGS		
10	KP	ePKP	Z 21 57 53				
	CT	PKP ²	Z 21 57 53 d				
	e		Z 58 07				
	RX	e(PKP ²)	Z 21 57 42				
	e		Z 58 08				
Epicentre			21 57 12.6	37.9N 20.1E 35km			
					USCGS		
10	KP	eP	Z 24 06 05				
	CT	eP	Z 24 06 09				
Epicentre			23 54 12.0	37.4N 135.4E 382km			
					USCGS		
11	TU	eP?	Z 05 15 42				
	e		Z 15 11				
	e(S)		Z 55				
	e		Z 59				
	KP	e(P)	Z 05 15 45				
	e		Z 52				
	e		Z 16 10				
Epicentre			21				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR		e(S)	Z 52				
		e	Z 17 03				
CT	e?	Z	05 15 55				
	e	Z	16 12				
	e	Z	42				
	e	Z	47				
	e	Z	50				
WN	e?	Z	05 16 15				
	eS	ZNE	18 03				
	e	ZNE	20 14				
CB	eS	E	05 18 25				
Epicentre			05 14.2	Near 33°S 179°W N NZ(D) Charters Towers readings used to determine Epicentre.			
11	CT	ePKP ₂ ?	Z 11 08 11				
	e	Z	28				
KP	ePKP ₂	Z	11 08 12				
TU	e	Z	21				
Epicentre			10 47 34.0	38.2N 20.0E 43km USCGS 9.0N 126.9E 31km USCGS			
			10 57 37.8	Movements recorded could refer to either shock			
11	KP	eP	Z 19 02 09				
CT	e?	Z	19 02 17				
TU	eP	Z	19 02 30				
RX	eP?	Z	19 03 07				
	e	Z	17				
12	SU	e(P)	N 01 03 35				
	eS	N	12 05	150 20	7.6		
KP	eP	Z	01 04 58				
	e	Z	05 03				
	e	Z	10				
	e	Z	47				
	ePP	Z	08 11				
	eL	Z	33				
TU	eP	Z	01 05 04				
	ePP	Z	08 34				
CT	e(P)	Z	01 05 07				
	e	Z	18				
	ePP	Z	08 25				
CB	e(P)	E	01 05 13				
WN	e(P)	Z	01 05 22				
RX	eP	Z	01 05 25				
	e	ZN	06 50				
	e(S)	NE	15 52	45 25	7.1		
	eSS	N	22				
	eL	ZNE	34				
	M	ZNE	38	120 20 100 22 100 21	7.2		
Epicentre			00 52 47.0	38.2N 142.3E 68km	USCGS		
12	KP	e(P)	Z 05 28 36				
Epicentre			05 16 05.0	38.2N 142.5E 26km	USCGS		
12	KP	eP	Z 05 58 48				
	e	Z	59				
	e(P)	Z	59 10				
CT	e	Z	05 59 22				
RX	e?	Z	05 59 47				
Epicentre			05 53 29.6	14.3S 166.8E 104km	USCGS		
12	CT	P	Z 16 48 58 u				
	KP	P	Z 16 49 01 u				
	e	Z	16				
CB	e(P)	E	16 49 04				
WN	ePP	ZNE	16 52 34				
Epicentre			16 36 08.4	28.7S 71.9W 34km	USCGS		

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR 14	KP	iP	Z 00 42 34 u				
	e	Z	43 50				
	TU	eP	Z 00 42 35				
	e	Z	45 06				
	e(S)	Z	10				
	CT	P	Z 00 42 45				
	e	Z	45 21				
	e(S)	Z	28				
	CB	e(S)	E 00 46 11				
	KM	eS	X 00 47 17				
	Epicentre		00 39.3				
				Near 25S 180° N? NZ(D)			
				Charters Towers and Apia readings used to determine Epicentre.			
14	KP	eP	Z 17 02 28				
	Epicentre		16 50 05.8	38.2N 142.5E 53km	USCGS		
15	KP	e(P)	Z 22 43 28				
	CT	e	Z 22 43 30				
	Epicentre		22 31 06.2	56.6S 26.2W 25km	USCGS		
16	KP	eP	Z 13 31 41				
	e	Z	49				
	e	Z	51				
	epP	Z	32 13				
	CT	P	Z 13 31 47				
	pP	Z	32 17 u				
	TU	eP	Z 13 31 48				
	epP	Z	32 21				
	CB	eP	E 13 31 54				
	epP	E	32 24				
	WN	eP	ZN 13 31 55				
	epP	Z	32 25				
	RX	eP	Z 13 32 06				
	e	Z	17				
	epP	Z	34				
	e	Z	50				
	Epicentre		13 20 15.1	30.6N 140.6E 176km	USCGS		
17	KP	iP?	Z 07 01 39 d				
	Epicentre		06 48 44.7	31.3N 142.6E 23km	USCGS		
17	GP	iP	N 17 43 25½ s				
	e(S)	N	41				
	WN	iP	ZNE 17 43 31 use				
	e(Pg)	ZNE	39				
	e(S)	ZNE	50				
	CB	iP	E 17 43 35 w				
	e(S)	E	56				
	KM	iP	X 17 43 35 x				
	e	X	54				
	CT	eP	Z 17 44 00 d				
	i	Z	01 u				
	RX	P	Z 17 44 06				
	e(P)	Z	15				
	e(Pg)	Z	27				
	e	Z	41				
	e(S)	Z	52				
	e	Z	45 03				
	TU	P	Z 17 44 11½ d				
	e(Pg)	Z	38				
	e	Z	55				
	e(S)	Z	45 04				
	KP	iP	Z 17 44 17 u				
	ON	eP	E 17 44 45				
	e	E	56				
	e	E	45 56				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
		e(S)	E 46 02				
		e	E 19				
	Epicentre		17 43 04	42.75S 174.0E S	NZ(c) 5.1		
			17 43 03.4	42.6S 174.0E 25km	USCGS		
17	KP	eP	Z 21 06 23				
		e	Z 34				
	CT	eP	Z 21 06 39				
	Epicentre		20 54 13.4	38.4N 142.2E 110km	USCGS		
18	KP	eP	Z 04 07 18				
	CT	e?	Z 04 10 30				
	WN	e?	N 04 10 52				
		e(S)	N 56				
	Epicentre		04 04 18.0	18.8S 175.4W 166km	USCGS		
18	KP	eP	Z 19 28 03				
		e	Z 12				
		(PKKP)	Z 44 52				
		e	Z 45 08				
	CT	eP	Z 19 28 07				
	RX	e(SKS)	E 19 39 14				
		e(SP)	NE 41 18				
		e(SS)	NE 46 38				
		eL	ZNE 60				
		M	E 62				
	SU	eL	N 20 02				
18	RX	e(L)	E 21 36				
	Epicentre		21 08 27.5	13.0S 166.8E 105km	USCGS		
19	SU	eP	N 22(17)50				
		eS	N (19)45				
	ON	eP	E 22 19 49				
		eS	E 23 31				
	KP	eP	Z 22 20 09				
	CT	eP	Z 22 20 21				
		e(S)	Z 24 30				
		e	Z 36				
	WN	eP	ZNE 22 20 36				
		e(S)	ZNE 24 51				
		e	Z 57				
	CB	e(P)	E 22 20 37				
		e?	E 24 52				
		e(S)	E 58				
	KM	e	X 22 20 48				
	GP	eP?	N 22 20 53				
		e	N 55				
	RX	eP	Z 22 21 07				
		e	Z 25				
		eS	NE 25 48				
		e(L)	NE 28				
	Epicentre		22 15 20.9	15.8S 168.0E 213km	USCGS		
20	KP	P	Z 00 44 18 u				
		e	Z 56				
	ON	P	E 00 44 22				
		e	E 29				
		e(S)	E 45 03				
	CT	P	Z 00 44 28				
		e	Z 35				
		e	Z 45 02				
	WN	eP	ZNE 00 44 52				
		e	Z 45 16				
		eS	ZNE 55				

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
		e(S)	E 00 45 19				
		e	E 46 12				
	APR	CB	eS	N 00 45 29			
		GP	eS	N 46 59			
		KM	e	X 00 45 55			
		eS	X 46 51				
	Epicentre		00 43 29	36.3S 178.4E 220km	NZ(D) 5.0NZ		
20	CT	ePKP	Z 06 06 42				
		ePKKP	Z 16 55				
		KP	ePKP	Z 06 06 43			
		ePKKP	Z 16 57 u				
		e	Z 25				
		e	Z 20 11				
		e	Z 37				
		WN	PKP	Z 06 06 46			
		CB	ePKP	E 06 06 48			
		GP	ePKP	N 06 06 49			
		RX	PKP	Z 06 06 53			
		ePKKP	Z 16 39				
		e	Z 20 29				
		eSS	E 25 34				
		eSSS	NE 30				
		eL	ZE 47				
		M	ZE 50				
	Epicentre		05 47 55.3	20.6N 72.2W 25km	14 22	USCGS	6.6
20	KP	e(P)	Z 14 30 12				
	Epicentre		14 25 18.8	17.9S 169.9E 87km	USCGS		
21	KP	eP	Z 03 39 03				
	Epicentre		03 33 53.8	6.1S 146.1E 86km	USCGS		
		KP	eP	N 07 49 16			
			Z 07 49 29				
		e	Z 45				
		e	Z 52				
		TU	eP	Z 07 49 32			
		e(S)	Z 52 04				
		CT	e(P)	Z 49 41			
		e(S)	Z 52 24				
		WN	P?	Z 07 49 42			
		eS	ZNE 52 57				
		ON	e(S)	E 07 51 36			
		CE	eS	E 07 53 00			
	Epicentre		07 46 18.5	23.7S 180.0 559km	USCGS		
21	KP	iP	Z 21 20 54 u				
	Epicentre		21 18 01.7	6.5S 144.6E 42km	USCGS		
22	SU	eS	N 02 13 54				
	ON	eP	E 02 14 01				
		KP	iP	Z 02 14 23 d			
		TU	eP	Z 02 14 36			
		eS	Z 18 14				
		CT	P	Z 02 14 36			
		e	Z 18 23				
		CB	eP	E 02 14 51			
		WN	P	ZNE 02 14 52			
		e	ZNE 18 01				
		e	ZNE 16				
		KM	e	X 02 15 03			
		e	X 18 44				
		RX	eP	Z 02 15 27			
		e	E 21 50				
	Epicentre		02 10 12.1	18.9S 169.5E 288km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR 22	RX	eL	ZNE 05 34				
	M		E 36				
	Epicentre		04 45 20.3	15.5N 93.1W 69km	2 24		USCGS
22	KP	P	Z 16 06 43 u				
	e	Z	07 01				
TU	eP	Z	16 06 46				
CT	eP	Z	16 06 53				
	e	Z	09 30				
	e	Z	51				
Epicentre			16 03 09.5	21.1S 178.7W 578km			USCGS
22	KP	P	Z 16 45 39				
CT	eP	Z	16 45 43				
TU	eP	Z	16 45 51				
Epicentre			16 38 17.8	5.1S 153.7E 28km			USCGS
22	KP	eP	Z 19 27 30				
	epP	Z	28 11				
CT	eP	Z	19 27 34				
	e	Z	28 26				
TU	eP	Z	19 27 36				
	epP	Z	28 17				
RX	eP	Z	19 27 47				
Epicentre			19 15 29.7	32.3N 130.3E 185km			USCGS
22	KP	P	Z 22 12 35				
	e(S)	Z	57				
TU	eP	Z	22 12 38.1				
	e	Z	45				
	e	Z	59				
	eS	Z	13 02				
CT	P	Z	22 12 43				
	e	Z	53				
	e	Z	13 10				
	e(S)	Z	15				
ON	eP	E	22 12 52				
WN	P	ZN	22 13 05				
	e	Z	54				
	S	ZNE	50				
	e	ZE	14 08				
	e	E	21				
CB	eP	E	22 13 14				
	e	E	35				
	e	E	14 04				
	e(S)	E	06				
KM	e	X	22 13 40				
	eS	X	14 42				
GP	eP	N	22 13 40				
	eS	N	14 52				
RX	e	Z	22 15 13				
	eS	Z	55				
Epicentre			22 12 06	37.65S 176.6E 200km	NZ(C) 5.4M		
23	KP	eP	Z 04 06 47				
	epP	Z	07 07				
CT	eP	Z	04 06 52 d				
Epicentre			03 54 38.4	36.0N 139.2E 115km			USCGS
23	SU	eP	N 06 09 07				
	eS	N	18 50				
	eL	N	30				
	M	N	32				
ON	e(P)	E	06 10 36				
	e	E	59				
KP	eP	Z	06 10 43 d				
				120 30			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR		e	Z 11 11				
	TU	eP	Z 06 10 47				
	e	Z	11 15				
	e(PP)	Z	14 15				
CT	eP	Z	06 10 48				
	e(PP)	Z	14 16				
CB	eP	E	06 10 53				
	eSKS	E	21 16				
	eS	E	48				
WN	eP	ZNE	06 10 56				
	e(PP)	ZNE	14 28				
	eSKS	NE	21 17				
KM	eP	X	06 11 02				
	e(SKS)	X	21 43				
GP	eP?	N	06 11 03				
	e	N	08				
	e(SKS)	N	21 55				
RX	P	Z	06 11 09				
	e	ZNE	12				
	e	Z	36				
	ePP	ZNE	14 46				
	eSKS	N	21 36				
	e	NE	28 16				
	eL	E	37				
	eL	ZNE	40				
	M	ZNE	43	100 29	90 29	110 29	
Epicentre			05 58 04.9	42.9N 143.4E 25km			USCGS
23	KP	eP	Z 15 00 31				
	TU	eP	Z 15 00 41				
Epicentre			14 51 26.0	6.9S 128.4E 83km			USCGS
24	KP	eP	Z 16 18 13				
Epicentre			16 06 23.7	2.2S 76.1W 175km			USCGS
24	KP	e(P)	Z 18 16 34				
	CT	eP	Z 18 16 42				
	TU	eP	Z 18 16 43				
Epicentre			18 09 30.0	5.8S 154.6E 92km			USCGS
25	SU	e(L)	N 05 45 00				
	SU	e	N 05 57 30				
	eL	N	60				
	KP	eP?	Z 05 59 22				
	GT	e(P)	Z 05 59 48				
	RX	eL	NE 06 09				
	M	E	10				
Epicentre			05 55 20.4	20.9S 175.1W 103km	1.5 18		USCGS
25	KP	P	Z 15 59 44				
	e	Z	52				
	e	Z	15 59 49				
	CT	e(P)	Z 15 59 49				
	e	Z	58				
	e	Z	16 00 11				
	WN	eP?	Z 16 00 12				
	RX	eP	Z 16 00 17				
	eSKS	N	10 48				
	eSS	N	16 26				
	eL	ZNE	29				
	M	NE	33				
	SU	eL	N 16 18	5 22	5 22		6.1
Epicentre			15 47 29.4	8 20			6.1
				38.4N 142.5E 56km			USCGS

NEW ZEALAND SEISMOLOGICAL REPORT NO. 10

Date	Stn	Phase	h m s	Az Tz	An Tr.	Ae Te	Mag
APR 25	KP	e(P)	Z 20 02 16				
	CT	e(P)	Z 20 02 24				
	Epicentre		19 49 57.3	38.4N 142.7E 120km			
				USCGS			
25	TU	eP	Z 21 50 53				
		e	Z 51 16				
	CT	e?	Z 21 51 04				
	e?	Z	15				
	e	Z	50				
26	KP	eP	Z 05 18 59				
	e	Z	19 41				
26	SU	e(P)	N 07 27 43				
	e	N	28 07				
	IS	N	38 8				
ON	eP	E	07 30 18				
	S	E	33 29 e				
KP	P	Z	07 30 30				
	e(S)	Z	34 04				
TU	eP	Z	07 30 33				
	e(sP)	Z	32 39				
	eS	Z	33 49				
	e	Z	55				
	e	Z	34 16				
	eScS	Z	40 47				
CT	P	Z	07 30 33				
	e	Z	37				
	e	Z	34 20				
WN	eP	Z	07 30 57				
	e	Z	34 25				
	eS	ZNE	37				
	eScS	NE	40 57				
CB	eP	E	07 31 00				
	eS	E	34 40				
KM	eP	X	07 31 16				
	eS	X	35 06				
	eScS	X	41 00				
GP	eP	N	07 31 22				
	eS	N	35 18				
	eScS	N	41 08				
RX	eP	Z	07 31 43				
	e(S)	Z	36 01				
	ePcS	Z	37 26				
	e	E	38 52				
Epicentre			07 26 31.3	17.8S 179.1W 689km	3 26		
				USCGS			
27	SU	e(P)	N 06 31 55				
	IS	N	33 10 n				
ON	eP	E	06 33 23				
KP	P	Z	06 33 39				
	eS?	Z	36 22				
CT	eP	Z	06 33 49				
	e	Z	52				
	eS	Z	36 40				
WN	eP	Z	06 34 08				
	e	Z	37 07				
	e(S)	Z	09				
	e	Z	25				
GP	eP	N	06 34 34				
	eS	N	37 50				
KM	e(P)	X	06 34 42				
	eS	X	37 36				
RX	eP	Z	06 34 57				
	e(S)	Z	38 30				
	e	Z	37				
Epicentre			06 30 24.9	23.1S 179.2E 576km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tr.	Ae Te	Mag
APR 27	RX	eP	Z 06 59 03				
		e(SKS)	E 07 08 42				
	KP	e?	Z 06 59 14				
	Epicentre		06 47 27.0	44.4S 74.8E 31km			
				USCGS			
27	KP	P	Z 16 29 56				
		e(P*)	Z 30 19				
		e(S*)	Z 31 34				
	CT	eP	Z 16 30 07				
	e	Z	18				
	e(S)	Z	31 34				
	e	Z	54				
	es*	Z	32 02				
	WN	eP	Z 16 30 29				
	eS	ZNE	32 12				
	es*	Z	33 01				
	GP	eS	N 16 33 15				
	Epicentre		16 28 17	33 1/2S 178 1/2W S			
				Charters Towers Readings used to determine Epicentre.			
				NZ(D) 5.4			
28	RX	ePKP	Z 11 38 44				
	e	Z	59				
	KP	ePKP	Z 11 39 16				
	e	Z	44				
	Epicentre		11 18 57.4	36.4N 26.6E 40km			
				USCGS			
28	RX	ePKP	Z 13 03 36				
	KP	ePKP	Z 13 04 05				
	Epicentre		12 43 49.1	36.3N 26.7E 48km			
				USCGS			
29	KP	eP	Z 07 10 24				
	e	Z	34				
	e	Z	41				
	Epicentre		07 05 36.2	18.1S 173.9W 79km			
				USCGS			
29	TU	eP	Z 15 16 11				
	CT	eP	Z 15 16 11				
	KP	e?	Z 15 16 33				
	RX	eP	Z 15 16 54				
	Epicentre		15 10 24.9	12.4S 166.5E 72km			
				USCGS			
30	KP	P	Z 02 38 48 u				
		e(pP)	Z 39 12				
	TU	eP	Z 02 38 53 u				
	e	Z	39 17				
	CT	P	Z 02 38 53 u				
	CB	eP	Z 02 38 58				
	GP	e(P)	N 02 39 10				
	RX	eP	Z 02 39 13				
	eL	NE	03 02				
	Epicentre		02 26 30.0	38.8N 140.9E 104km			
				USCGS			
30	KP	eP?	Z 09 54 18				
	e	Z	22				
	e	Z	55 04				
	CT	P	Z 09 54 30				
	Epicentre		09 44 17.4	17.0N 147.3E 109km			
				USCGS			
30	KP	P	Z 10 44 33 u				
		epP	Z 44				
	TU	eP	Z 10 44 46				
	CT	eP	Z 10 44 48				
	CB	eP	Z 10 45 02				
	GP	e(P)	N 10 45 22				
	RX	e(P)	Z 10 45 42				
	Epicentre		10 40 14.4	20.1S 169.0E 49km			
				USCGS			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
APR 30	SU	eP	N 16 18 07				
		e(L)	N 19 24				
ON	eP	E 16 21 20					
	eL	E 26					
KP	eP	Z 16 21 33					
TU	eP	Z 16 21 34					
CT	eP	Z 16 21 43					
	e	Z 47					
WN	e(P)	ZNE 22 12					
	eL	NE 20					
CB	eP	E 16 22 14					
GP	eP?	N 16 22 28					
	e	N 40					
KM	e(P)	X 16 22 35					
RX	e	Z 16 23 17					
	ePP	N 56					
	eS	NE 27 52					
	eL	NE 30					
	M	E 31					
	Epicentre	16 16 47.8	70 24	17.9S	176.1W	26km	USCGS
30	SU	e	N 18 32 40				
	e(L)	N 33 35					
ON	e?	E 18 35 28					
	e	E 36					
	eL	E 41					
KP	eP	Z 18 35 41					
TU	eP	Z 18 35 43					
CT	eP	Z 18 35 52					
	epp	Z 36 20					
CB	e	E 18 36 19					
KM	e(P)	X 18 36 41					
GP	eP	N 18 36 43					
RX	e	Z 18 37 12					
	eL	NE 44					
	eL	Z 46					
	M	E 46					
	Epicentre	18 31 06.6	13 24	18.0S	176.4W	135km	USCGS
30	CT	eP	Z 20 49 44				
RX	e?	Z 20 50 30					
	eL	E 21 19					
TU	eP	Z 20 50 36					
KP	eP?	Z 20 50 37					
	e	Z 40					
	Epicentre	20 39 45.1	6.4N	124.0E	28km	USCGS	
30	WN	ePKP	NE 24 09 56				
KP	ePKP	Z 24 10 01½					
TU	ePKP	Z 24 10 03					
CT	ePKP	Z 24 10 03					
TO	ePKP	Z 24 10 03					
	Epicentre	23 50 33.5	72.0N	7.2E	25km	USCGS	
MAY 1	KP	eP	Z 10 03 04				
TO	eP	Z 10 03 07					
CT	eP	Z 10 03 07½					
WN	eP	NE 10 03 08					
TU	eP	Z 10 03 13½					
	Epicentre	09 54 20.6	5.8S	125.5E	621km	USCGS	
2	WN	eP?	N 09 09 31				
RX	eP	Z 09 09 33					
TO	eP	Z 09 09 35					
CT	eP	Z 09 09 35½					
KP	eP	Z 09 09 38					
	e(pP)	Z 10 46					
	Epicentre	08 56 29.0	23.6S	65.9W	163km	USCGS	

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY 2	RX	e?	Z 11 16 29				
	e?	Z 17 05					
CT	eP	Z 11 16 43					
	Epicentre	11 05 13.5	14.5N	120.2E	82km		USCGS
2	CT	eP	Z 12 46 11				
KP	eP	Z 12 46 14					
	Epicentre	12 33 08.1	23.8S	66.4W	179km		USCGS
2	SU	eP	N 20 45 54				
CT	eP	Z 20 47 03					
	eS	Z 49 33					
	e	Z 47					
TO	eP	Z 20 47 06					
	eS	Z 49 36					
WN	eS	NE 20 50 10					
CB	eS	E 20 50 29					
KM	eS	X 20 51 03					
RX	eS	Z 20 52 17					
	Epicentre	20 43 53.8	26.3S	177.7W	183km		USCGS
2	CT	e(PKP ₁)Z	23 39 23				
	e(PKP ₁)Z	32½					
	Epicentre ²	23 18 28.4	74.9N	9.0E	23km		USCGS
3	RX	eP	Z 03 46 22				
	eS	NE 55 52					
	eLq	E 04 05.3					
	eL	N 10.5					
	eLr	Z 12.6					
	CT	eP	Z 03 46 51				
	TO	eP	Z 03 46 51				
	KM	eP	X 03 46 52				
	CB	eP	E 03 46 54				
	KP	eP	Z 03 46 57				
	Epicentre	03 34 49.0	60.0S	32.9W	20km		USCGS
4	KP	eP	Z 13 29 13				
TU	eP	Z 13 29 17					
	eS	Z 32 12					
	Epicentre	13 25 27.8	20.3S	177.8W	592km		USCGS
5	KP	eP	Z 11 23 52				
CT	eP	Z 11 24 00					
	Epicentre	11 11 51.4	34.2N	139.2E	73km		USCGS
5	ON	eP	E 16 00 39				
KP	eP	Z 16 00 46					
TU	eP	Z 16 00 51					
	eS	Z 02 20					
	CT	eP	Z 16 01 04				
	eS	Z 02 52					
	RX	eP	Z 16 02 35				
	TO	eS	Z 16 02 55				
	WN	eS	NE 16 03 29				
	GP	eS	N 16 04 37				
	KM	eS	X 16 04 54				
5	TU	eP	Z 23 07 56				
	eS	Z 09 31					
ON	eP	E 23 07 57					
KP	eP	Z 23 08 00					
CT	eP	Z 23 08 12					
	e(S)	Z 09 52					
	e	Z 10 02					
	TO	eP	Z 23 08 12				
	e(S)	Z 09 56					
	TA	eP	Z 23 08 20				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY		e	Z 09 34				
	e(S)	Z	10 31				
WN	eP	N	23 08 39				
	eS	N	10 36				
CB	e(P)	E	23 08 59				
	eS	E	10 59				
KM	eP	X	23 09 15				
	eS	X	11 36				
GP	eP	N	23 09 17				
	eS	N	11 40				
RX	eP?	Z	23 09 54				
	eP	Z	59				
	eS	Z	12 53				
SU	eL	N	23 14 25				
Epicentre			23 05 56.9	31.6S 176.7W 41km	USCGS		
6	TU	eP	Z 03 20 41				
	CT	eP	Z 03 20 47½				
	TA	eP?	Z 03 20 54				
	KP	eP?	Z 03 21 00½				
	Epicentre		03 13 49.3	54.3S 136.6W 23km	USCGS		
6	TU	eP	Z 03 40 38				
	CT	eP	Z 03 40 44				
	TO	eP	Z 03 40 44				
	KP	eP	Z 03 40 52				
	TA	eP?	Z 03 40 54				
	Epicentre		03 33 47.0	54.2S 136.5W 25km	USCGS		
6	KP	eP	Z 12 12 21				
	e	Z	33				
	e	Z	38				
TU	eP	Z	12 12 22				
	e	Z	15 17				
CT	eP	Z	12 12 30				
	e	Z	15 44				
TO	eP	Z	12 12 33				
	TA	eP	Z 12 12 36				
WN	eP?	NE	12 12 45				
Epicentre			12 08 45.6	20.8S 178.7W 587km	USCGS		
6	RX	eP	Z 19 11 43				
	GP	eP	N 19 11 55				
	CB	eP	E 19 12 04				
WN	eP?	NE	19 12 04				
CT	eP	Z	19 12 10				
	e	Z	31 55	Possibly separate shock			
TO	eP	Z	19 12 12				
	e(PP)	Z	15 19				
	e	Z	31 55	Possibly separate shock			
TA	eP	Z	19 12 12				
TU	eP	Z	19 12 12½				
KP	eP	Z	19 12 15				
	e	Z	14 27				
	e(PP)	Z	15 22				
ON	eP	E	19 12 29				
SU	eP	N	19 13 53	24 20			
	e(PP)	N	17 34				
	e	N	21 53				
	e	N	26 50				
	eL	N	50.0				
Epicentre			19 00 10.2	60.0S 32.8W 25km	USCGS		
6	TO	eP	Z 22 05 47				
	CT	eP	Z 22 05 48				
	KP	eP	Z 22 05 53				
	Epicentre		21 53 48.5	60.2S 33.1W 37km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY	TO	eP	Z 22 46 44				
	CT	eP	Z 22 46 45				
	KP	eP	Z 22 46 51				
	Epicentre		22 34 47.9	60.4S 33.6W 34km	USCGS		
7	KP	eP	Z 05 04 40				
	TO	eP	Z 05 04 47				
	CT	eP	Z 05 04 48				
	TU	eP	Z 05 04 52				
	Epicentre		04 56 38.4	4.1S 143.7E 113km	USCGS		
7	KP	eP	Z 08 18 14				
	CT	eP	Z 08 18 22				
	TO	eP	Z 08 18 22				
	TU	eP	Z 08 18 23				
	Epicentre		08 07 55.8	19.3N 145.4E 116km	USCGS		
7	TU	eP	Z 13 08 52				
	eS	Z	10 23				
	KP	eP	Z 13 08 58				
	e	Z	09 10				
	ON	eP	E 13 09 00				
	CT	eP	Z 13 09 08				
	e	Z	10 55				
	TO	eP	Z 13 09 10				
	e	Z	10 59				
	TA	e?	Z 13 09 33				
	GP	eP	N 13 10 24				
	eS	N	12 35				
	WN	eS	NE 13 11 30				
	CB	eS	E 13 11 56				
	KM	eS	X 13 12 31				
	Epicentre		13 06 54.2	32.0S 176.5W 25km	USCGS		
7	SU	eP	N 17 50 58				
	eS	N	18 00 24				48 24
	eLq	N	11 35				
	eLr	N	15 40				27 19
	KP	eP	Z 17 52 36				
	CT	eP	Z 17 52 42				
	e	Z	56 06				
	CB	eP	E 17 52 48				
	WN	eP	NE 17 52 49				
	KM	eP	X 17 53 05				
	GP	eP	N 17 53 05				
	RX	eP?	Z 17 52 34	8.4 5			7.3
	eS	NE	18 03 46				
	e	NE	04 22				
	e	NE	05 24				
	e(SS)	NE	10 31				
	e(SSS)	N	14 14				
	e	E	19 08				
	e(Lq)	NE	23.0				
	e(Lr)	Z	25.5				
	Epicentre		17 39 50.3	45.3N 146.7E 25km	USCGS		
7	CT	iP	Z 19 15 42				
	TA	eP	Z 19 15 42				
	KP	iP	Z 19 15 47				
	ON	eP?	E 19 16 01				
	Epicentre		19 03 32.1	59.5S 25.6W 25km	USCGS		
8	KP	eP	Z 07 59 15				
	e(pP)	Z	47				
	TU	eP	Z 07 59 20				
	Epicentre		07 49 27.9	14.4N 145.1E 70km	USCGS		

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Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag
MAY 8	SU	e(S)	N	08	00	40			
	KP	eP	Z	08	01	42			
	CT	eP	Z	08	01	50			
	Epicentre		07	57	30.3		17.98	177.7W	409km
									USCGS
9	KP	eP	Z	02	40	24			
9	KP	e	Z	11	34	52			
	CT	e	Z	11	35	02			
	e	Z			09				
	Epicentre			11	19	01.6	46.1N	152.9E	56km
									USCGS
10	KM	IP!	X	00	27	30.7	ne		
	CE	IP!	E	00	27	34.9	e		
	GP	IP	N	00	27	(49)	n		
	iP*	N				(55*)			
	ePg	N				28(00)			
	WN	eP	NE	00	27	55.0			
	eP*	NE				28			
	ePg	NE				02			
	eSn	NE				08			
	eS*	NE				27			
	eSg	NE				38			
	TA	eP	Z	00	28	06.9			
	P*	Z				12.7			
	(Pg)	Z				23			
	eS	Z				42			
	eSg	Z				29	01		
	RX	eP	Z	00	28	15.5			
	i	Z				17.5			
	eP*	Z				26			
	ePg	Z				39			
	eSg	Z				29	35		
	CT	eP	Z	00	28	15.5			
	i	Z				17.9			
	eSg	Z				29	30		
	KP	eP	Z	00	28	27.1			
	TU	eP	Z	00	28	37.1			
	i	Z				39.5	u		
	e(Pg)	Z				57.5			
	ON	eP	E	00	28	48.4	e		
	i8	E				29	58.2	w	
	Epicentre			00	27	12.0			
							41.65S 171.32E	12km	NZ(A) 5.9M
							Felt Wanaka to South of North Island.		
							Maximum MM 7 at Westport.		
10	WN	IP	NE	04	31	14½	w		
	eS	NE				(24)			
	TA	eP	Z	04	31	37			
	eS	Z				32	07		
	CB	eIP	E	04	31	37			
	eS	E				32(08)			
	TU	iP	Z	04	31	40	u		
	KP	P	Z	04	31	49½	u		
	KM	eP	X	04	31	55			
	ON	eP	E	04	22½				
	RX	eP	Z	04	32	33½			
	Epicentre			04	30	59			
							41.3S 175.9E	S	NZ(B) 5.7M
							Felt North Taranaki to Nelson and		
							Marlborough. Maximum MM 4-5 in		
							Wairarapa and Wellington province.		
10	KP	eP	Z	05	25	16			
	e	Z				26	09		
	Epicentre			05	12	15.9	52.4N 170.9W	43km	USCGS
11	KP	e	Z	01	34	46			
	e	Z				35	57		
	e	Z				36	19		
	TU	eP	Z	01	35	09			

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Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag
MAY		eS					36	31	
	TA	eP	Z	01	35	25			
	WN	eS	NE	01	37	41			
	CB	eS	E	01	37	56			
	GP	eS	N	01	38	43			
	Epicentre			01	33	20			
							31.5S 179.5E	350km	NZ(D) 5.6NZ
							Charters Towers readings used to		
							determine epicentre.		
11	KP	eP	Z	05	00	41			
	TU	eP	Z	05	00	53			
	Epicentre			04	52	43.4	6.4S 143.6E	37km	USCGS
11	KP	eP	Z	07	13	25			
	TU	eP	Z	07	13	38			
	WN	eP	Z	07	13	44			
	GP	eP	N	07	13	47			
	Epicentre			07	05	52.5	6.6S 147.7E	42km	USCGS
11	ON	eP	E	12	10	53			
	KP	eP	Z	12	11	10	u		
	TU	eP	Z	12	11	19			
	e	Z					50		
	eS	Z					15	01	
	TA	eP	Z	12	11	24			
	WN	iP	ZNE	12	11	37	dn		
	e(S)	ZNE				15	23		
	e	E					29		
	CB	eP	E	12	11	37½			
	GP	eP	N	12	11	56			
	RX	eP	Z	12	12	11½			
	KM	eP	X	12	12	50			
	e	X				15	48		
	Epicentre			12	06	42.1	14.3S 170.4E	623km	USCGS
11	ON	eP	E	13	38	23			
	KP	eP	Z	13	38	39			
	TU	eP	Z	13	38	43			
	eS	Z				40	05		
	WN	eS	ZNE	13	41	10½			
	eS	ZNE				51	24		
	esScS	ZNE				47			
	esScS	ZNE				51			
	CB	eS	E	13	41	28			
	GP	eS	N	13	42	14			
	Epicentre			13	35	31.3	28.5S 177.6W	115km	USCGS
11	SU	e	N	14	25	12			
	e(S)	N				35	15		
	e	N				38	20		
	e(SS)	N				41	16		
	e(L)	N				47.9		37	28
	eLr	N				52.6		19	19
	WN	eP	ZE	14	25	32	1.8	19	
	ePP	ZNE				29	32	2.0	26
	eSKS	ZNE				36	06	3.7	19
	eSP	Z				38	16	27	20
	ePS	NE				38	24		
	e(SS)	ZNE				42	44		
	eSS	ZE				47	42		
	eSKKS	E				49	26		
	e(L)	N				50	8		
	eLr	ZNE				56		25	19
	eP?	Z	14	25	45			57	14
	eSKS	NE				36	32		
	ePS	ZNE				39	04		
	e	N				43	00		
	eSS	E				45	18		
	e(SKKS)	Z				52	23		

7.1

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY	e(L)	N	54 42		31 36		
	eL	NE	59.0		14 22	33 21	
	eLr	Z	15 00.0	31 19	17.0N	99.7W 25km	6.75
Epicentre			14 11 51.9				USCGS
12	KP	eP	Z	12 16 27			
	CT	eP	Z	12 16 30			
	TU	eP	Z	12 16 32			
12	ON	eP?	E	22 07 30			
	KP	eP	Z	22 07 43			
	Epicentre		22 03 40.7		18.0S	178.0W 603km	USCGS
14	KP	eP	Z	01 29 53			
	CT	eP	Z	01 30 04			
	TU	eP	Z	01 30 09			
	Epicentre		01 25 15.0		18.4S	168.3E 58km	USCGS
14	RX	eP	Z	10 43 07			
	CB	eP?	E	10 43 16			
	KM	eP	X	10 43 18			
	WN	iP	ZNE	10 43 22 <u>1</u>	u		
	e	N	49				
	KP	eP	Z	10 43 23			
	CT	eP	Z	10 43 24			
	TU	eP	Z	10 43 31 <u>1</u>			
	Epicentre		10 33 25.5		9.0S	118.7E 30km	USCGS
14	SU	eP?	N	23 24 07			
	eL	N	25 20		18 9		
	KP	eP	Z	23 28 15			
	Epicentre		23 23 08.6		14.0S	178.2W 65km	USCGS
15	ON	eP	E	05 32 53			
	e(Pp)	E	34 55				
	e	E	38 42				
	e(S)	E	40 05				
	e(Lg)	E	47 07				
	e(Lr)	E	49 44				
	eLr	E	50 55				
	CB	e(P)	E	05 32 55			
	eS	E	40 23				
	e(Lg)	E	47 17				
	e(Lr)	E	51 44				
	RX	eP	ZN	05 32 55		9.5 15	6.8
	ePP	N	35 06				
	eS	N	40 12		65 18		7.0
	e	N	42.7				
	e(SS)	N	44.0				
	e	N	45.0		170 20		
	eLq	N	46.2		114 14		
	eLr	N	47.6		380±28		
	TA	eP	Z	05 32 56			
	e(PcP)	Z	38 13				
	CT	eP	Z	05 33 01			
	e	Z	35 26				
	KM	e(P)	X	05 33 03			
	e	X	06				
	eS	X	40 17				
	e?	X	45 02				
	eL	X	52.6				
	GP	eP	N	05 33 03			
	ePP	N	14				
	e	N	36 31				
	eS	N	40 35				
	eL	N	52.1				
	M	N	55.0				
	WN	eP	ZNE	05 33 03			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY	epP	ZNE	13				
	eS	ZNE	4C 38				
	eL	ZNE	52.2				
	TU	Z	05 33 09		0.6 12	2.0 15	1.7 18
	e(pP)	Z	20				
	KP	eP	Z	05 33 58			
	ePP	Z	34 48				
	e	Z	35 12				
	e(PcP)	Z	38 11				
	e	Z	46 59				
	eLr	Z	53 43				
	eLr	Z	55 38				
	Epicentre		05 23 45.9		7.3S	128.2E 30km	USCGS
15	KP	eP	Z	06 52 13			
	TA	eP	Z	06 52 13			
	WN	eP?	Z	06 52 14			
	TU	eP	Z	06 52 23			
	Epicentre		06 42 58.9		7.2S	128.3E 52km	USCGS
15	TA	eP	Z	10 04 29			
	KP	eP	Z	10 04 30 <u>1</u>			
	TU	eP	Z	10 04 40			
	Epicentre		09 55 16.5		7.2S	128.2E 30km	USCGS
15	RX	eP	Z	17 03 (17)			
	eL	N	16 44				
	M	N	21			3.0 18	
	KP	eP	Z	17 03 18			
	TU	eP	Z	17 03 26			
	WN	eP	Z	17 03 29			
	Epicentre		16 54 01.9		7.4S	128.0E 34km	USCGS
16	SU	eP	N	05 19 45			
	e	N	20 35				
	eS	N	22 02				
	eL	N	20				
	M	N	23			19 09	
	KP	eP	Z	05 22 13			
	TU	eP	Z	05 22 23			
	CT	eP	Z	05 22 27			
	RX	eL	E	05 31 06			
	eL	N	35 56				
	Epicentre		05 16 46.0		13.6S	167.3E 52km	USCGS
16	KP	e(P)	Z	06 15 43			
	CT	e(P)	Z	06 15 59			
	WN	e	ZNE	06 16 13			
	16	KP	eP	Z	08 28 21		
	TU	eP	Z	08 28 31			
	Epicentre		08 18 30.7		0.9S	127.0E 34km	USCGS
16	CT	i(P*)	Z	10 28 36 u			
	KP	iPn	Z	10 28 43			
	e(ScP)	Z	40 23				
	e?	Z	44 34				
	TU	iPn	Z	10 28 44 <u>1</u>			
	e	Z	29 29				
	TA	iPn	Z	10 28 51			
	WN	ePn	ZNE	10 29 09			
	e	ZNE	12 <u>1</u>				
	ON	ePn?	E	10 29 50			
	e*	E	26				
	e(Pg)	E	32				
	e	E	45				

Date	Stn	Phase		h	m	s	Az	Tz	An	Tn	As	Te
MAY	CB	ePn	E	10	29	21						
		eS*	E		30	11						
	GP	ePn	N	10	29	49						
		e(S)	N		31	02						
	RX	e(P)	Z	10	30	41						
		e(S)	Z		32	32						
		e	NE			33.0						
	Epicentre			10	28	27						
							38.758	176.0E	S			
							Brisbane, Umea, Charters Towers		HZ(c)			
							readings used to determine Epicentre					
							Felt: Taupo, Tokaanu, Whakamaru.					
							Maximum MM 3.					
16	CB	eP	E	14	44	47						
	KP	eP	Z	14	44	49						
	TU	eP	Z	14	44	52						
	CT	eP	Z	14	44	56						
	WN	eP	Z	14	44	56						
	RX	eP	Z	14	44	56						
	Epicentre			14	35	29.6				7.3S	128.1E	34km
												USCGS
16	SU	eP	N	17	35	57						
		eS	N		38	25						
		eLq	N			54						
		eLr	N		39	28						
	KP	eP?	Z	17	38	35						
		e(pP)	Z			40						
	TU	e(P)	Z	17	38	45						
	CT	eP?	Z	17	38	48						
		e(pP)	Z			59						
	RX	eP	Z	17	39	34						
		e(S)	NE		44	56						
		eLq	NE		47	30						
		M	NE		53							
	Epicentre			17	33	05.5				1.5		8
							13.4S	167.3E	35km			USCGS
16	KP	eP	Z	23	10	24						
	TU	eP	Z	23	10	35						
	CT	eP	Z	23	10	36						
	RX	eP	Z	23	11	22						
	Epicentre			23	05	21.1				15.1S	167.6E	136km
												USCGS
17	KM	iP!	X	02	20	08.4	sw					
	CB	iP	E	02	20	(17.9)	e					
		P*	E			{19}						
		eS	E			(34)						
	GP	eP	N	02	20	28.0	s					
		i(P*)	N			35						
		e(S*)	N		21	03						
	WN	ePn	ZNE	02	20	36.0						
		e	ZNE			37.0						
		eP*	ZNE			42						
		e(Pg)	ZNE			47						
		eSn	ZNE		21	08						
		eS*	ZNE			16						
		eSg	ZNE			24						
	TA	eP	Z	02	20	48.8						
		e(P*)	Z			54						
		ePg	Z		21	00						
		e	Z			18						
	RX	eP	Z	02	20	54.3						
		ePg	Z		21	15						
		eS	Z			(40)						
	CT	eP	Z	02	20	57.2						
		i	Z			59						
		e	Z		21	02						
	KP	P	Z	02	21	09.8						
		e	Z			(14)						

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Date	Stn	Phase	h	m	s	Az	Tz	An	Tn	Ae	Te	Mag
MAY	TU	eP	Z	02	21	14						
	ON	eP	E	02	21	29.6	e					
	S	E		22	42.5							
	Epicentre			02	19	52.2		41.80S	171.30E	12km	NZ(A)	5.6NZ
17	CB	eP	E	02	22	31						
		eS	E			46						
	GP	P*	N	02	22	47						
		S	N			23(16)						
	WN	eS	ZNE	02	23	20						
	Epicentre					02 22 08		41.75S	171.25E	S	NZ(C)	5.2NZ
17	CT	e?	Z	06	15	27						
		e(P)	Z			18 03						
	KP	e(P)	Z	06	18	12						
	17	CT	eP	Z	16	13	05					
	TA	eP?	Z			16 13 06						
	TU	eP?	Z			16 13 07						
	KP	eP	Z	16	13	40.5						
	Epicentre					16 00 37.4		55.8S	27.0W	23km	USCGS	
18	KP	iP	Z	02	53	23	u					
	TU	eP	Z			02 53 24						
	CT	e	Z	02	53	32						
		i	Z			37 d						
	TA	eP	Z	02	53	38						
	CB	e?	E			02 53(56)						
	Epicentre					02 49 50.4		21.2S	178.8W	549km	USCGS	
18	CT	eP?	Z	05	08	35						
	16	ON	eP	E	07	15	19					
	KP	eP	Z			07 15 19						
	TU	eP	Z	07	15	20						
		e	Z			49						
		e	Z			16 18						
		e	Z			17 05						
	CT	e	Z	07	15	28						
		e	Z			17 20						
	TA	e	Z	07	15	43						
		e	Z			17 20						
	WN	eP	ZNE	07	15	54						
		eS	ZNE			18 07						
	CB	eS	E	07	18	23						
	RX	eS	Z	07	20	13						
	Epicentre					07 12 55.0		29.3S	178.4W	192km	USCGS	
18	KP	eP	Z	23	24	04						
	TU	eP	Z			23 24 04						
	TA	eP	Z	23	24	20						
	KM	eP	X	23	25	01						
	WN	eL	ZE	23	31.5							
		M	ZE			35		1.0 21		3.5 20		
	Epicentre					23 18 46.9		16.0S	173.0W	25km	USCGS	
19	WN	eP	Z	15	11	54		2.7 8				
		e(PP)	Z			15 45		1.8 26				
		e	Z			21 08						
		eSKS	ZN			22 34		2.5 16				
		e(SP)	Z			24 38						

NEW ZEALAND SEISMOLOGICAL REPORT

Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag
MAY	eSS	ZN	29	50					
	eSSS	Z	33	38					
	e(Lq)	N	37	24	3.3 28				
	e(Lr)	Z	42	40	14 32				
	M	Z	49	17	11 18				
KP	ePP	Z	15	15	40				
RX	ePP	NE	15	16	20				
	eSKS	NE	22	50					
	ePS	NE	25	34					
	eSS	NE	31	05					
	eSSS	NE	34	52					
	eLq	N	41.0		26 36				
	eLr	NE	45.6						
	M	NE	48						
Epicentre			14	58	13.3	17.2N	99.5W	20km	USCGS 6.5
19	TU	eP	Z	18	32	56½			
	KP	eP	Z	18	33	11			
	CT	eP	Z	18	33	14			
	TA	eP	Z	18	33	35			
20	KP	eP	Z	08	12	44			
	CT	eP	Z	08	12	57			
	WN	eP	Z	08	13	14			
	Epicentre			08	09	14.4	21.3S	179.1W	608km USCGS
20	KP	eP?	Z	16	27	33			
	Epicentre			16	22	29.4	15.2S	167.2W	108km USCGS
20	KP	eP?	Z	17	00	08			
	e(pP)	Z		49					
	TU	eP	Z	17	00	16			
	e	Z		19					
	Epicentre			16	49	46.8	6.2N	125.8E	133km USCGS
20	ON	eP	E	18	32	51			
	KP	eP	Z	18	32	54			
	e	Z		33	06				
	TU	eP	Z	18	32	55			
	e	Z		34	41				
	e	Z		47					
	GP	eP?	N	18	34	21			
	eS	N		48					
	e	N		54					
	RX	eP	Z	18	34	51			
	WN	eS	ZNE	18	35	48			
	Epicentre			18	30	38.9	30.0S	177.5W	25km USCGS
21	KP	eP	Z	01	44	10			
	TU	eP	Z	01	44	10			
	TA	eP	Z	01	44	28			
21	KP	eP	Z	02	04	30			
	TU	eP	Z	02	04	37			
	Epicentre			01	54	06.2	19.4N	145.6E	85km USCGS
21	WN	ePP	Z	12	21	31	1.8 12		
	ePKP	Z		31	58				
	eSS	Z		37	02				
	e(SSS)	Z		40	24				
	e(SKKS)	E		42	18				
	e	Z		46.3					
	e(L)	E		49.0					
	eLr	Z		55.9					
	M	Z		13	04				
	RX	ePP	E	12	21	32	7 26		
	eSKS	E		27	48				

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Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag
MAY		e(SKKS)N			28 39				
	e	N			38 53				
	e	E			40 00				
	e	N			46 50				
	eLr	Z			55 38				
	e(Lr)	N			57 22				
	e(Lr)	E			58 50				
	M	ZNE	13	01		8.4 26	4.5 22	11.0 24	6.5
	SU	eL	N	12	49				
	M	N		59			14 20		
	Epicentre			12	02	50.6	37.3N	96.0E	25km USCGS 6½-7½
21	SU	iP	N	21	16(52)	n			
	ON	eP	E	21	19	21			
	e	E			38½				
	e	E			20 39				
	eS	E			22 33				
	ePoS	E			27 13				
	TU	eP?	Z	21	19	28			
	eP	Z			33				
	e	Z			47				
	eS	Z			23 03				
	eScP	Z			26 12				
	eScS	Z			30 20				
	KP	eP	Z	21	19	30			
	eScP	Z			26 14				
	CT	eP	Z	21	19	47			
	e	Z			22 35				
	TA	eP	Z	21	19	47			
	e	Z			22 35				
	WN	eP	NE	21	20	04			
	e	N			29				
	eS	NE			23 52				
	ePoS	N			26 59				
	eScS	E			30 27				
	e	N			33				
	e	E			35				
	e	N			40				
	GP	eP	N	21	20	24			
	eS	N			24 37				
	eScS	N			30 46				
	KM	eP	X	21	20	25½			
	e	X			22 04				
	e	X			24 45				
	e	X			30 37				
	RX	eP	Z	21	20	52	4.5 14		5.6
	e(pP)	Z			22 19				
	eS	NE			25 26				
	e?	Z			57				
	e(PcS)	Z			27 00				
	e	Z			27 34				
	e	Z			31 28				
	Epicentre				21 15 31.0		20.0S	177.5W	379km Felt: Nukualofa, Tonga USCGS 6¾-7
22	SU	e(L)	N	02	24.8				
	KP	eP?	Z	02	25	26			
	TU	eP	N	02	25	50			
	Epicentre				02 20 10.4		14.7S	173.0W	46km USCGS
22	TA	eP	Z	04	47	09			
	RX	eS	NE	04	52	20			
	eLq	NE		54	02		1.5 14	2.3 16	6.3
	eLr	Z		56	12		8 28	7 26	
	Epicentre				04 40 14.4		55.5S	138.3W	42km USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY 22	SU	eP	N 08 09 35		50 5		
		eS	N 12 07		125 8		
ON	eP	E	08 11 52				
KP	eP	Z	08 12 07				
	ePP?	Z	13 14				
	eScP	Z	18 49				
TU	eP	Z	08 12 17				
	e	Z	19				
	e(PP)	Z	13 44				
	eS	Z	16 56				
	e(SS)	Z	19 07				
TA	eP	Z	08 12 18				
CT	eP	Z	08 12 19				
WN	eP	ZNE	08 12 34				
	epP	E	13 06				
	eS	ZNE	17 18	5.3 20	33 30	24 10	
	e(SS)	ZNE	19 28				
	eL	Z	21 03	28 52			
	M	Z	24	13 18			
KM	eP	X	08 12 42				
	eS	X	17 35				
GP	eP	N	08 12 51				
	eS	N	17 54				
	e(sScS)N	24 08					
RX	IP	ZNE	08 13 05	us	20 5		
	ePP	ZNE	14 52				
	eS	ZNE	18 14	11 8	17 9	9.1 8	7.1
	eScP	Z	19 02				
	ePcs	E	36				
	e(Lq)	E	21.5				
	e(Lq)	ZN	22.1				
	eLr	Z	24.4				
Epicentre			08 06 38.7	12.38	166.6E	151km	USCGS 5.4
22	SU	eP	N 22 09 35		6.3 9		
	eS	N	14 00				
	eL	N	17 11				
	M	N	26				
KP	eP	Z	22 10 55				
	e?	Z	12 23				
TU	eP	Z	22 11 07				
	e	Z	40				
WN	eP	Z	22 11 22	1.0 15			
	e(PP)	Z	12 40	1.0 15			
	eS	Z	17 25				
	e(ScS)	Z	22 08				
	eLr	Z	23 20				
	M	Z	27				
RX	eP?	ZN	22 11 36				
	eS	NE	17 46				
	e	E	21 14				
	eL	NE	25 14				
	M	NE	28				
Epicentre			22 03 36.0	5.58	152.0E	100km	USCGS
23	WN	eLr	Z 06 53.9				
	M	Z	57	0.7 20			
RX	eL	NE	06 56				
	eL	Z	07 00				
Epicentre			06 34 00.4	5.48	152.0E	70km	USCGS
23	ON	eP	E 08 21 45				
KP	IP	Z	08 22 00 u				
	e(S)	Z	24 33				
TU	eP	Z	08 22 01				
	e(S)	Z	24 32				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY	TA	eP	Z 08 22 19				
	e(s)	Z	25 06				
	WN	eP	NE 08 22 32				
	eS	NE	25 19				
	KM	eP	X 08 22 56				
	eS	X	26 05				
	RX	eP	Z 08 23 29				
	e	Z	45				
	eS	Z	27 18				
	Epicentre		08 19 00.7	25.4S	179.3W	363km	USCGS
24	KP	eP	Z 02 18 57				
	WN	eL	Z 02 32.0				
	M	Z	34	0.9 20	5.4S	151.9E	55km
	Epicentre		02 11 35.8	18.7S	173.2W	25km	USCGS
24	TU	eP	Z 04 23 58				
	e	Z	27 50				
	KP	eP	Z 04 24 00				
	GT	eP	Z 04 24 11				
	e	Z	27 58				
	TA	eP	Z 04 24 19				
	WN	eP	ZNE 04 24 35				
	eS	ZNE	28 39				
	eLq	ZNE	30 44	2.3 19	11 15		17 20
	eLr	ZNE	32.6	5.0 16	19 16		
	KM	eP	X 04 25 03				
	eS	X	29 37				
	GP	eP	N 04 25 04				
	eS	N	29 32				
	RX	eP	Z 04 25 31				
	e	NE	28.8				
	eLr	Z	35.7				
	M	NE	37				
	M	Z	38	6.4 16	12 16	13 15	
	Epicentre		04 19 57.0	20.7S	174.3W	281km	USCGS
25	KP	eP	Z 07 10 07				
	e	Z	11				
	e	Z	25				
	TU	e(P)	Z 07 10 24				
	CT	eP	Z 07 10 25				
	WN	eP	ZN 07 10 42				
	KM	e	X 07 13 18				
	e	X	55				
	Epicentre		07 05 32.3	18.4S	168.4E	67km	USCGS
25	TU	eP?	Z 14 21 48				
	e	Z	53				
	eS	Z	23 23				
	KP	eP	Z 14 21 53				
	e	Z	23 50				
	CT	eP	Z 14 22 27				
	e	Z	23 50				
	TA	e	Z 14 22 34				
	eS	Z	24 27				
	WN	e	Z 14 23 47				
	GP	eP	ZNE 14 24 33				
	Epicentre		14 25 39	30.9S	177.2W	25km	USCGS
25	KP	eP	Z 16 48 22				
	TU	eP	Z 16 48 33				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY	CT	eP	Z 16 48 36				
	WN	eL	E 16 51.9				
	eL		ZN 55.6	2.0 25	6.4 25	2.7 28	
	RX	eL	E 16 57				
25	KP	eP	Z 17 25 00				
	e		Z 17				
	TU	eP?	Z 17 25 03				
	eP		Z 05				
	CT	eP	Z 17 25 11				
	e		Z 27 53				
	TA	eP	Z 17 25 16				
	WN	eP	ZNE 17 25 31				
	eS		ZNE 28 22				
	GP	e(P)	N 17 25 39				
	KM	e(P)	X 17 25 52				
	eS		X 28 55				
	RX	eP	Z 17 26 19				
	Epicentre		17 21 57.6	24.1S	179.1E	576km	USCGS
26	ON	eP	E 02 16 37				
	KP	eP	Z 02 16 50 u				
	eScP		Z 23 27				
	TU	eP	Z 02 16 52				
	eS		Z 19 56				
	CT	eP	Z 02 16 59				
	e		Z 17 18				
	eS		Z 20 15				
	eScP		Z 23 29				
	TA	eP	Z 02 17 04				
	WN	eP	ZNE 02 17 18				
	KM	eP	X 02 17 45				
	eS		X 21 31				
	GP	eP	N 02 17 45				
	eS		N 21 26				
	RX	eP	Z 02 18 08				
	Epicentre		02 13 04.8	19.7S	178.0W	600km	USCGS
26	WN	eL	Z 07 50.0				
26	KP	eP	Z 09 58 45				
	CT	eP	Z 09 58 54				
	TU	eP	Z 09 58 57				
	KM	eP?	X 09 59 12				
	WN	eL	Z 10 12.2				
	RX	eL	E 10 16.8				
26	TA	eP	Z 19 56 57				
	KP	eP	Z 19 57 00				
	CT	eP	Z 19 57 00				
	WN	eL	Z 20 28				
	Epicentre		19 44 17.5	6.7N	94.6E	60km	USCGS
27	KP	eP	Z 05 40 04				
	TU	eP	Z 05 40 15				
	e		Z 54				
	WN	eL	Z 06 00.7				
	M		Z 05				
	Epicentre		05 30 44.4	0.5 20	3.2S	129.5E	82km
28	WN	eL	Z 03 31.0				
	M		Z 35				
	Epicentre		03 08 07.4	0.7 18	3.3S	146.0E	25km
28	CT	eP	Z 10 21 31				
	KP	eP?	Z 10 21 32				
	Epicentre		10 09 57.6	31.1N	140.9E	158km	USCGS

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY 28	KP	eP	Z 16 13 54				
	TU	eP	Z 16 14 05				
	CT	eP	Z 16 14 06				
	RX	eP	Z 16 14 54				
	WN	eL	ZNE 16 25				
	Epicentre		16 07 59.8	10.8S	165.8E	25km	USCGS
28	CT	eP	Z 24 01 43				
	KP	eP	Z 24 01 47				
	Epicentre		23 49 01.0	31.3S	68.3W	94km	USCGS
29	KP	eP	Z 21 13 11				
	Epicentre		21 00 16.4	51.8N	177.1W	25km	USCGS
29	WN	e(Lr)	Z 22 19 38				
	M		Z 21			1.5 22	
	RX	eL	Z 22 21.7				
	eL		Z 23.4				
	Epicentre		21 52 50.0	26.3S	113.7W	25km	USCGS
30	TU	iP	Z 04 57 38½ d				
	e		Z 54				
	KP	iP?	Z 04 57 42½				
	CT	iP	Z 04 57 51				
	ON	eP	E 04 58 08				
	WN	eP	NE 04 58 15				
	eS		NE 59 06				
	CB	eP	E 04 58 26				
	eS		E 59 27				
	KM	e	X 04 58 50				
	eS		X 05 00 05				
	GP	eP	N 04 58(50)				
	eS		N 05 00(10)				
	RX	eP	Z 04 59 31				
	e		Z 05 01 19				
	Epicentre		04 57 08				
30	SU	eP	N 16 59 50				
	TA	eP?	Z 17 01 54				
	eS?		Z 05 56				
	WN	eP	ZNE 17 02 07				
	KP	e?	Z 17 02 16				
	e?		Z 05 38				
	Epicentre		16 57 36.9	18.9S	177.9W	480km	USCGS
31	TU	eP	Z 03 20 29				
	eS		Z 22 04				
	KP	e?	Z 03 20 51				
	RX	eP	Z 03 22 14				
	WN	e	ZNE 03 23 12				
	eL		Z 25				
	Epicentre		03 17 57.2	30.1S	177.1W	15km	USCGS
31	SU	e?	N 06 38 25				
	eS		N 44 35				
	eL		N 51				
	KP	eP	Z 06 38 54				
	TU	eP	Z 06 39 01				
	e		Z 04				
	TA	e?	Z 55				
	eP		Z 06 39 01				
	e?		Z 42				
	WN	e?	Z 40 35				
	eP		ZNE 06 39 08	1.4	7		
	e		ZNE 40 54				
	eS		ZNE 47 54	3.8	7	23 7	14 9

37.6S 178.0E 160km NZ(D) 5.4NZ
Charters Towers, Umea, Kiruna readings used to determine epicentre.

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
MAY		e(PS)	NE	48 48			
		e	N	53 42			
		e	ZE	54 00			
		eL	ZNE	57.0	2.3 27	11 25	14 33
KM	eP	X	06 39 11				
GP	eP	N	06 39 18				
RX	eP	Z	06 39 19 ¹				
	e	Z	40 31 ²				
	eS	NE	48 14				
	e?	N	50.5				
	eLq	NE	59		4.2 32	6.4 30	
	eLr	Z	07 01				
Epicentre			06 28 26.2	22.1N 142.6E 257km	USCGS	64	
31	TU	eP	Z	08 39 38			
		e?	Z	41 38			
		e	Z	48			
KP	eP	Z	08 39 45				
TA	eP	Z	08 40 09				
WN	eP	Z	08 40 28				
	eS	ZNE	42 28				
	eL	E	43.5				
	eL	Z	44.0	3.0 22	9.7 32		
SU	e	N	08 40 58				
	eL	N	43 35		12 13		
KM	eP	X	08 41 03				
	eS	X	43 25				
RX	eP	Z	08 41 35				
	eS	Z	44 47				
	eL	E	46.4				
	eL	N	47.1		2.4 18	2.5 20	
GP	eS	N	08 43 33				
Epicentre			08 37 25.8	30.8S 177.3W 42km	USCGS		
31	KP	e(P)	Z	10 02 55			
31	SU	eL	N	15 00	3.5 8		
JUN	2	KP	eP	Z	05 43 43		
	CT	P	Z	05 43 49			
	Epicentre			05 35 36.1	3.5S 145.3E 42km	USCGS	
3	KP	eP	Z	14 28 58			
	TA	eP	Z	14 29 13			
	CB	eP	E	14 29 31			
	GP	eP	N	14 29 53			
	Epicentre			14 25 42.7	23.7S 179.7W 438km	USCGS	
5	TA	P	Z	16 52 43			
	RX	P	Z	16 52 43			
	KP	P	Z	16 52 44			
	e	Z	53 48				
	CT	P	Z	16 52 47			
	GP	P	N	16 52 49			
	TU	P	Z	16 52 54			
	Epicentre			16 43 44.8	7.1S 129.2E 124km	USCGS	
8	KP	P	Z	01 36 00			
	TU	eP	Z	01 36 02			
	WN	P	Z	01 36 28 ¹			
	GP	eP	N	01 36 53			
	RX	P	Z	01 37 15			
	e	Z	36				
Epicentre			01 31 59.9	18.1S 178.4W 603km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUN	9	KP	P	Z	01 08 42		
		e	Z	09 20			
	ON	eP	E	06 08 26			
		KP	Z	06 08 41			
	TA	eP	Z	06 08 57			
	GP	eP	N	06 09 38			
	Epicentre			06 04 55.8	21.1S 178.3E 339km	USCGS	
10	KP	P	Z	03 04 02			
		e	Z	12			
	e	Z	51				
	SU	e	N	03 04 12			
	TU	eP	Z	03 04 17			
	Epicentre			02 59 44.8	20.9S 170.8E 31km	USCGS	
11	KP	P	Z	02 10 10			
	CT	P	Z	02 10 25			
	Epicentre			02 05 43.3	19.0S 168.8E 85km	USCGS	
11	SU	iP	N	04 37 14 n			
	ON	eP	E	04 38 45			
	KP	P	Z	04 38 59			
	TU	eP	Z	04 39 01			
	eS	Z	42 26				
	CT	P	Z	04 39 09			
	i	Z	14				
	eS	Z	42 34				
	e	Z	46				
	TA	P	Z	04 39 15			
	WN	eP	Z	04 39 28			
	Epicentre			04 35 00.6	19.6S 177.7W 370km	USCGS	
11	KP	P	Z	17 08 06			
	TU	P	Z	17 08 17			
	CT	eP	Z	17 08 18			
	Epicentre			17 02 16.4	10.6S 164.7E 132km	USCGS	
11	SU	e	N	18 48 40			
	KP	P	Z	18 50 44			
12	SU	S	N	13 50 25			
	KP	P	Z	13 50 54			
	TU	P	Z	13 51 03			
	TA	eP	Z	13 51 03			
	CT	P	Z	13 51 05			
	WN	P	Z	13 51 19			
	RX	eP	Z	13 51 51			
	Epicentre			13 45 40.6	13.2S 167.2E 233km	USCGS	
14	SU	eS	N	08 12 54			
	eL	N	25				
	RX	eSKS	N	08 16 19			
	eS	E	17 20				
	eSS	NE	24 22				
	eL	NE	39				
	WN	e	Z	08 18			
	eL	Z	35 ¹		1.1 26		
	Epicentre			07 51 51.0	5.5 22		
					54.3N 169.1E 34km	USCGS	5 ¹ -6 ¹
15	ON	eP	E	05 57 48			
	KP	eP	Z	05 58 04			
	i	Z	08				
	CT	P	Z	05 58 16			
15	WN	eL	ZNE	07 14	1.5 24	4.0 20	5.9 26
	EX	eL	E	07 15			
	Epicentre			06 30 37.0	20.4S 70.9W 60km	USCGS	

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUN 15	CB	P	E 06 50 16				
	S		E 35½				4.7
WN	1P	ZNE	06 50 23.8	dne			
	S	ZNE	48.0				5.4
KM	P	X	06 50 24½				
	S	X	49				
TA	1P	Z	06 50 31½ d				
	S	Z	51 02				
CT	1P	Z	06 50 37 d				
	S	Z	51 15				
KP	P	Z	06 50 48				
	S	Z	51 31				
TU	P	Z	06 50 52				
eS	Z	Z	51 39				
RX	1P	Z	06 51 01 d				
	S	Z	54½				
ON	eP	E	06 51 12				
e	E	E	53				
eS	E	E	52 15				
Epicentre			06 49 50	41.1S 172.7E 190km	NZ(C) 5.1		
				Felt : Paturau MM 4	Waikanae Beach		
15	ON	eP	E 12 01 14				
KP	1P	Z	12 01 34 u				
TU	P	Z	12 01 42				
TA	P	Z	12 01 43				
CT	eP	Z	12 01 45				
WN	eP	ZNE	12 02 00				
GP	P	N	12 02 17				
RX	P	Z	12 02 30				
Epicentre			11 56 19.3	13.3S 167.0E 211km	USCGS		
15	KP	eP	Z 12 14 36				
Epicentre			12 10 40.6	18.4S 176.7W 278km	USCGS		
16	TU	eP	Z 04 21 36				
KP	P	Z	04 21 37				
CT	eP	Z	04 21 52				
16	KP	eP	Z 05 33 14				
Epicentre			05 21 12.7	26.6N 126.4E 38km	USCGS		
16	KP	P	Z 06 37 34				
e	Z	Z	38 04				
CT	pP	Z	11				
	P	Z	06 37 36				
	ePP	Z	39 38				
Epicentre			06 27 29.8	0.2S 122.8E 177km	USCGS		
16	ON	eP	E 17 53 22				
KP	P	Z	17 53 44				
CT	P	Z	17 53 59				
WN	eL	ZE	18 04½				
Epicentre			17 48 47.1	16.6S 167.7E 25km	USCGS		
16	KP	P	Z 21 47 48				
17	WN	eLr	Z 05 08	0.7 50			
Epicentre			04 27 38.2	40.1S 45.7E 15km	USCGS		
17	KP	P	Z 13 28 05				
TU	P	Z	13 28 16				
CT	P	Z	13 28 17				
SU	S	N	13 28 27				
RX	eP	Z	13 28 59				
	eL	E	38				
WN	eL	Z	13 37				
Epicentre			13 22 21.4	1.3 20			
				10.7S 165.3E 106km	USCGS		

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUN 17	KF	P	Z 14 01 21				
18	KF	P	Z 23 49 59				
		PcP	Z 52 05				
			32				
			55 54				
			56 03				
			23 50 07				
			40				
			52 04				
			23 50 16				
			1.2 19				
			6.6 14				
			2.0 20				
			9.2 19				
			63 17				
			4.8S 151.8E 47km				USCGS
			03 39 17				
			03 39 25				
			03 53				
			0.8 20				
			5.6S 151.5E 130km				USCGS
			03 32 01.8				
			19 KP 1P				
			Z 06 18 17				
			19 KP TV				
			Z 06 18 20½				
			45				
			06 18 25				
			CT iP				
			Z 06 18 57				
			57				
			ON P				
			Z 06 18 31				
			19 05				
			TA P				
			Z 06 18 32				
			19 09				
			WN eIP				
			ZNE 06 18 47½ us				
			19 34				
			5.7				
			GB eP				
			Z 06 18 57				
			5.4				
			19 49				
			KM eP				
			Z 06 19 21				
			20 25				
			GP eP				
			Z 06 19 23				
			20 36				
			RX eP				
			Z 06 19 59				
			21 39				
			i Z 42				
			06 17 49				
			37.55S 176.65E 185km				
			19 05 03.2				
			17.0S 172.5W 29km				
			19 ON eP				
			Z 15 50 02				
			KP P				
			Z 15 50 14				
			25				
			TA eP				
			Z 15 50 32				
			CT eP				
			Z 15 50 36				
			Epicentre				
			15 45 03.2				
			17.0S 172.5W 29km				
			19 ON eP				
			Z 16 42 51				
			44 21				
			45 45				
			KP P				
			Z 16 43 06				
			TU P				
			Z 16 43 09				
			46 22				
			45				
			CT eP				
			Z 16 43 16½				
			46 31				
			TA eP				
			Z 16 43 23				
			WN S				
			ZNE 16 47 10				
			KM eS				
			Z 16 47 45				
			GP eS				
			Z 16 47 55				
			Epicentre				
			16 39 21.4				
			20.9S 177.8W 405km				

NZ(B) 5.8

USCGS

USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUN 20	SU	S	N 00 08 30				
	KP	P	Z 00 10 05				
	i	Z	13				
	CT	eP	Z 00 10 19				
	Epicentre		00 05 46.9	19.4S 175.4W 244km	USCGS		
20	KP	P	Z 06 25 19				
	e	Z	46				
	Epicentre		06 16 22.6	6.9S 126.6E 272km	USCGS		
21	WN	eL	Z 05 32	0.8 26			
	Epicentre		04 43 43.3	5.7N 82.6W 23km	USCGS		
21	SU	S	N 08 41 19				
	WN	eP	Z 08 43 20				
	S	ZNE	47 11				
	CT	eS	Z 08 46 27				
	Epicentre		08 38 28.4	20.8S 175.6W 67km	USCGS		
21	KP	P	Z 23 01 54				
	Epicentre		22 52 52.0	7.4S 130.1E 52km	USCGS		
22	KP	P	Z 12 00 44				
	Epicentre		11 48 55.3	32.2N 142.4E 25km	USCGS		
22	KP	P	Z 15 03 14				
	pP	Z	31				
	Epicentre		14 55 39.8	6.9S 147.0E 70km	USCGS		
23	SU	e(P)	N 09 56.1				
	eS	N	10 03 55				
	eL	N	22				
	TA	eP	Z 09 56 34				
	TU	P	Z 09 56 38				
	e	Z	55				
	WN	P	Z 09 56 41				
	RX	eS	NE 10 07.1				
	eL	NE	20				
	Epicentre		09 44 37.7	25.7N 128.5E 36km	USCGS		
23	TU	eP	Z 10 10 20				
	Epicentre		09 58 26.0	19.1N 121.4E 40km	USCGS		
24	TU	eP	Z 01 34 40				
	Epicentre		01 21 18.5	25.6N 101.1E 35km	USCGS		
24	TU	eS	Z 12 01 19				
	e	Z	29				
	WN	eS	ZNE 12 02 23				
	Epicentre		11 56 24.7	27.7S 177.1W 52km	USCGS		
24	TU	P	Z 17 08 27				
	Epicentre		17 03 14.9	15.3S 167.6E 130km	USCGS		
25	ON	eP	E 01 35 01				
	S	E	37 47				
	TU	eP	Z 01 35 17				
	e	Z	35				
	eS	Z	38 08				
	TA	P	Z 01 35 29				
	WN	P	ZNE 01 35 41				
	eS	ZNE	38 46				
	Epicentre		01 31 41.9	20.8S 179.2W 645km	USCGS		
25	WN	eLr	ZN 07 04	1.0 19	2.9 15		
	RX	eL	E 07 06				
	Epicentre		06 26 49.6	37.3S 73.5W 40km	USCGS		

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUN 25	KP	P	Z 11 22 32				
	e	Z	40				
	e	Z	23 44				
	TA	eP	Z 11 22 33				
	e	Z	23 06				
	CT	P	Z 11 22 35				
	ePP	Z	25 24				
	TU	eP	Z 11 22 38	3.1 7	3.5 8	4.8 8	
	NN	eP	ZNE 11 22 38		6.6 15	8.8 17	
	eS	ZNE	32 45				
	PS	ZNE	33 46				
	SS	NE	38 48				
	eLq	NE	44				
	eLr	ZNE	49			5 40	
	RX	eS	NE 11 32 50				
	SS	NE	38 22				
	eLq	N	49				
	Epicentre		11 10 23.3	24.3N 122.6E 33km			
25	KP	eP	Z 12 59 59				
	TU	eP	Z 13 00 09				
	NN	eL	ZNE 13 33				
	Epicentre		12 49 41.8	3.7N 126.6E 25km			
26	KP	eP	Z 10 01 50				
	Epicentre		09 54 35.1	7.1S 149.6E 59km			
27	NN	eP	Z 03 37 28		0.9 6		
	ePcS	E	43 32				
	eSS	ZE	47 22		0.4 15		
	eL	Z	49		0.7 26		
	KP	eP?	Z 03 37 31				
	e	Z	41				
	e	Z	57				
	Epicentre		03 30 01.9	6.1S 148.8E 55km			
27	ON	eP	E 08 20 01				
	KP	P	Z 08 20 12				
	NN	eP	ZNE 08 20 57				
	S	ZNE	22 58				
	TU	eS	Z 08 21 49				
	GP	eS	N 08 24 02				
	Epicentre		08 17 50.3	30.0S 177.7W 69km			
27	KP	P	Z 13 45 27				
	Epicentre		13 33 21.5	39.1S 74.9W 40km			
28	SU	L	N 04 47				
	NN	eLr	Z 04 57 ¹		0.9 32		
	Epicentre		04 27 18.4	20.0N 155.6W 25km			
28	TA	P	Z 19 00 30				
	KP	IP	Z 19 00 32.0 u				
	e	Z	01 05				
	CT	P	Z 19 00 35				
	NN	IP	ZNE 19 00 36.2 u 1.7 28			4.3 24	
	eLr	Z	19 ¹				
	M	ZE	24				
	TU	P	Z 19 00 41 ¹				
	Epicentre		18 50 27.5	0.2S 124.3E 58km			
28	ON	eP	E 20 51 54				
	KP	IP	Z 20 52 07 u				
	TU	P	Z 20 52 10				
	eS	Z	55 56				
	CT	eP	Z 20 52 16				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUN	TA	P	Z 20 52 23				
	WN	eP	Z 20 52 37				
	SU	S	N 22 50 26				
	Epicentre		20 47 30.6	17.6S 175.2W 244km			
29	KP	P	Z 00 57 16 <u>1</u>				
	i		Z 18				
	TU	eP	Z 00 57 27				
	Epicentre		00 52 12.0	15.1S 166.9E 122km			
29	CT	eP	Z 03 42 42				
	KP	eP	Z 03 42 48				
	Epicentre		03 30 18.8	56.2S 26.9W 25km			
29	WN	eL	Z 10 56 <u>1</u>	0.5 28			
	Epicentre		10 28 46.6	35.2S 106.0W 25km			
29	KP	P	Z 12 14 15				
	Epicentre		12 09 32.5	17.9S 167.8E 44km			
29	TA	eP	Z 13 58 25				
	KP	P	Z 13 58 27				
	WN	P	Z 13 58 31				
	TU	P	Z 13 58 37				
	e		Z 59 00				
	Epicentre		13 49 16.9	7.9S 127.3E 80km			
29	SU	eL	N 17 05				
	WN	eLr	ZNE 17 24 <u>1</u>	0.5 20			
	Epicentre		16 28 04.4	62.3N 152.4W 39km			
30	KP	P	Z 19 41 25				
	CT	eP	Z 19 41 30				
	WN	eL	ZE 20 04 20	1.3 21			
	RX	eL	E 20 08		4.5 23		
	Epicentre		19 29 51.0	16.5N 122.0E 40km			
JUL	1	KP	eP	Z 01 37 21			
	e		Z 24				
	TU	eP	Z 01 37 31				
	e		Z 40				
	CT	e?	Z 01 37 34				
	e		Z 44				
	Epicentre		01 32 11.0	14.1S 167.2E 156km			
1	KP	eP	Z 01 44 20				
	CT	eP	Z 01 44 21				
1	KP	e(P)	Z 05 11 14				
	TU	e(P)	Z 05 11 20				
	CT	eP	Z 05 11 28				
	RX	eL	E 05 20				
	Epicentre		05 07 37.0	23.8S 176.9W 25km			
1	ON	e(P)	E 13 39 55				
	KP	eP	Z 13 40 03				
	TU	e(P)	Z 13 40 05				
	CT	eP	Z 13 40 15				
	Epicentre		13 35 05.1	15.7S 172.6W 65km			
2	SU	e(P)	N 08 35 55				
	e(S)		N 38 55				
	ON	eP	E 08 38 12				
	KP	eP	Z 08 38 28 u				
	e		Z 36				
	e		Z 41 38				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL		e(Ps)	Z 45 11				
		e	Z 16				
	TA	e(P)	Z 08 38 38				
	TU	P	Z 08 38 39 u				
		e	Z 39 20				
		e	Z 43 22				
		eS	Z 28				
	CT	eP	Z 08 38 40				
		e	Z 43 30				
		eS	Z 35				
	CB	eP	E 08 38 53				
		eS	E 43 48				
	WN	eP	ZNE 08 38 57				
		eS	ZNE 43 51				
		e	N 55				
		e	Z 44 00				
	KM	eP	X 08 39 08				
		eS	X 44 07				
	GP	eP	N 08 39 12				
		eS	N 44 23				
	RX	e	N 08 40 54				
		e(S)	N 44 46				
		e	E 45 20				
		eL	NE 46				
	Epicentre		08 32 37.9	10.3S 165.9E 50km			USCGS
	2	KP	eP?	Z 15 52 24			
		e	Z 29				
		e	Z 34				
		e	Z 39				
	TU	eP	Z 15 52 34				
		e	Z 50				
	CT	e?	Z 15 52 45				
		e	Z 53 09				
	Epicentre		15 42 22.1	0.2S 123.1E 136km			USCGS
	3	KP	P	Z 06 28 40 d			
	TU	e(P)	Z 06 28 43				
	TA	e(P)	Z 06 28 53				
	CT	e?	Z 06 29 14				
	Epicentre		06 23 36.0	17.5S 173.2W 25km			USCGS
	3	KP	eP	Z 08 39 31			
	Epicentre		08 34 28.5	17.2S 170.8W 25km			USCGS
	3	CT	eP	Z 18 20 04			
	TU	e(P)	Z 18 20 10				
	KP	e(P)	Z 18 20 13				
	WN	e	Z 18 25 22				
		eL	Z 27				
		M	Z 29			5.6 18	
	RX	eL	NE 18 27				
	Epicentre		18 13 35.6	56.3S 142.5W 25km			USCGS
	3	CT	eP	Z 18 29 23			
	TU	e(P)	Z 18 29 24				
	KP	eP	Z 18 29 30				
	RX	e(S)	NE 18 35 22				
		eL	N 38				
		M	N 40				
	KM	eL	X 18 42				
	Epicentre		18 22 06.3	54.6S 132.3W 25km			USCGS
	3	KP	P	Z 21 03 21 u?			
	Epicentre		20 59 04.8	17.8S 167.8E 23km			USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL 4	KP	eP	Z 11 35 51				
	e		Z 36 09				
4	KP	e(P)	Z 17 06 07				
TU	e?		Z 17 06 23				
WN	eL		Z 17 15				
Epicentre			17 00 53.5	14.9S 167.8E 62km	USCGS		
4	KP	e?	Z 23 20 06				
TU	e?		Z 23 20 09				
GP	eS		Z 21 52				
e(S)	N		Z 23 21 24				
	N		Z 24 00				
WN	e		Z 23 22 10				
e(S)	E		Z 23 22 51				
Epicentre			Z 23 17 54	23.5S 177.5W 25km	USCGS		
5	KP	e	Z 07 38 21				
TU	eP		Z 07 38 32				
CT	eP		Z 07 38 32				
GP	eP		N 07 39 05				
RX	eP		Z 07 39 17				
Epicentre			Z 07 32 33.2	11.3S 166.5E 33km	USCGS		
5	CT	eP	Z 17 52 58				
Epicentre			Z 17 40 55.3	30.9N 141.4E 23km	USCGS		
6	KP	eP	Z 01 27 26				
Epicentre			Z 01 15 34.8	32.6N 139.7E 62km	USCGS		
6	RX	eL	E 03 09				
Epicentre			Z 02 12 19.9	13.3N 58.0E 30km	USCGS		
6	KP	ePKP ₂	Z 09 36 55				
	e?		Z 37 16				
i			Z 48 03 d				
WN	eL		Z 10 48	0.3 23			
Epicentre			Z 09 16 15.0	38.0N 20.2E 30km	USCGS		
6	SU	e	N 12 16				
ON	eP		E 12 16 55				
KP	eP		Z 12 17 09				
TU	eP		Z 12 17 09				
e			Z 12				
CT	e?		Z 12 17 17				
e			Z 19				
TA	eP		Z 12 17 24				
KP	e(P)		Z 12 18 03				
GP	e(P)		N 12 18 10				
RX	eP		Z 12 18 35				
Epicentre			Z 12 12 01.1	16.5S 174.1W 27km	USCGS		
6	KP	eP	Z 13 31 19				
CT	e		Z 13 31 25				
eS			Z 34 15				
TU	e(S)		Z 13 33 39				
WN	eS?		N 13 34 44				
GP	e(S)		N 13 35 58				
Epicentre			Z 13 27 52.1	25.0S 176.7W 25km	USCGS		
6	RX	ePKP	Z 23 24 00				
	e		Z 25 04				
ePP	E		Z 26				
eSKS	E		Z 30 38				
eSKKS	E		Z 32 04				
eSP	E		Z 35				

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL							
	e(SS)	NE	42				
	eSSS	NE	46				
	eLq	N	55				
	CB	ePKP	E 23 24 00				
	TA	ePKP	Z 23 24 00				
	KP	ePKP?	Z 23 24 01				
	e		Z 03				
	e(PP)	Z	25 00				
	e		Z 26 53				
	e(PKS)	Z	27 17				
	CT	ePKP	Z 23 24 01				
	KM	ePKP?	X 23 24 01				
	e		X 15				
	WN	PKP	ZNE 23 24 03 d				
	e(PP)	Z	26				
	ePPP	Z	28				
	eSS	Z	42.2				
	eSSS	Z	46				
	TU	ePKP	Z 23 24 04				
	GP	e(PKP)	N 23 24 06				
	SU	e	N 23 32 17				
	e		N 40 25				
	e		N 41 55				
	Epicentre		Z 23 05 32.2	36.6N 70.4E 203km	USCGS		
7	KP	eP	Z 06 25 37				
	SU	e(PS)	N 06 33 17				
	eL		N 47				
	WN	eSKS	Z 06 36 28				
	eSSS	Z	46				
	eLr	Z	55				
	M	Z	07 02	1.7 20			
	RX	eSKS	NE 06 36 54				
	eL	N	58				
	M	E	07 04				
	M	ZN	08				
	Epicentre		Z 06 12 48.9	7.19 51.3N 178.6E 60km	USCGS		
7	KP	e(P)	Z 11 56 31				
	TU	e(P)	Z 11 56 41				
	RX	eL	NE 12 16				
	WN	eL	Z 12 17				
	M	Z	18				
	Epicentre		Z 11 47 19.4	0.8 20 7.3S 128.3E 30km	USCGS		
8	SU	e(P)	N 02 59 35				
	e(S)	N	03 00 13				
8	KP	eP	Z 03 34 52				
		e(pP)	Z 35 03				
	Epicentre		Z 03 22 03.8	51.5N 178.5E 60km	USCGS		
8	KP	eP	Z 12 05 53				
	CT	eP?	Z 12 06 05				
	WN	eP	ZN 12 06 33				
	e(S)	NE	09 34				
	e	N	44				
	GP	eS	N 12 10 27				
	Epicentre		Z 12 02 33.2	22.0S 179.8W 600km	USCGS		
8	KP	eP	Z 22 57 30				
	CT	eP?	Z 22 57 49				
	eS	Z	23 00 08				
	TA	e(P)	Z 22 58 01				
	GP	eP	N 22 58 48				
	e	N	59 23				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL		e	N 23 01 46				
	e(S)	N	23 01 51				
WN	e	NE	22 59 48				
	eS	ZNE	23 00 42				
	eL	Z	04				
RX	eL	E	23 05				
	Epicentre		22 54 44.7	28.1S	176.5W	25km	USCGS
9 RX	eP	Z	10 02 05				
	eS	Z	04 20				
GP	eP	N	10 02 43				
	e(s)	N	05 30				
WN	e	Z	10 03 42				
	Epicentre		09 59 07.8	56.0S	158.1E	25km	USCGS
9 KP	P	Z	16 36 23				
10 KP	e	Z	04 33 19				
	Epicentre		04 21 12.0	39.1S	75.4W	25km	USCGS
10 SU	eP	N	05 13 25				
	e	N	14 44				
	eS	N	14 39				
ON	eP	E	05 15 29				
KP	iP	Z	05 15 43 u				
	e(pP)	Z	17 32				
TU	eP	Z	05 15 45				
	e(s)	Z	18 41				
CT	eP	Z	05 15 51				
	e(s)	Z	19 04				
TA	eP	Z	05 15 57				
WN	eP	ZNE	05 16 11				
GP	eP	N	05 16 37				
	e(s)	N	20 09				
	e	N	34				
KM	e(P)	X	05 16 39				
RX	eP	Z	05 17 00				
	e(sP)	Z	19 37				
	eScP?	Z	22 48				
Epicentre			05 12 06.4	20.8S	178.7W	584km	USCGS
10 KP	eP	Z	12 59 35				
GP	eP	N	13 00 45				
	eS	N	04 35				
TU	e(s)	Z	13 02 38				
Epicentre			12 56 03.8	22.3S	177.2W	333km	USCGS
10 KP	eP	Z	14 14 01				
TU	eP?	Z	14 14 02				
	e	Z	04				
	e(s)	Z	15 43				
WN	eP?	Z	14 14 22				
	eS	N	16 40				
Epicentre			14 11.9	Kermadec Island region h>N N.Z.			
10 KP	e	Z	18 45 07				
11 KP	P	Z	12 51 45 d				
TA	e(P)	Z	12 51 45				
RX	eP	Z	12 51 48				
CT	eP	Z	12 51 49				
TU	eP	Z	12 51 53				
GP	e(P)	N	12 51 56				
Epicentre			12 40 30.7	11.9N	122.1E	25km	USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL 11	ON	eP?	Z	16 54 29			
	TU	eP	Z	16 54 38			
	e	Z	55 58				
	eS	Z	56 04				
	e	Z	40				
	e	Z	52				
	KP	eP	Z	16 54 39			
	e	Z	55 12				
	CT	P	Z	16 54 50			
	e	Z	55 11				
	e	Z	56 27				
	e(s)	Z	33				
	TA	e	Z	16 55 03			
	e	Z	39				
	GP	e	N	16 56 06			
	e	N	58 16				
	eS	N	18				
	WN	eS	ZNE	16 57 13			
	eS	E	16 57 29				
	CB	eS	X	16 58 09			
	KM	eS		16 52 44.8	31.9S	178.5W	37km
	Epicentre						USCGS
12 KP	eP	Z	01 44 40				
	CT	eP	Z	01 44 50			
	eP	Z	01 44 56				
Epicentre			01 40 37.9	19.9S	177.5W	321km	USCGS -
12 KP	eP	Z	04 09 18				
	i	Z	20 d				
	CT	eP	Z	04 09 27			
	e	Z	29				
	e	Z	10 58				
	e	Z	11 08				
	TA	eP?	Z	04 09 36			
	e	Z	38				
	e	Z	11 17				
	WN	eP	ZNE	04 09 53			
	eS	ZNE	11 35				
	KM	eP	X	04 10 22			
	eS	X	12 24				
	GP	e(P)	N	04 10 28			
	eS	N	12 35				
	CB	eS	E	04 11 49	Near 34S	178W	N
Epicentre			04 17 41				NZ(D) 5.4
12 SU	e?	N	09 35 42				
	KP	eP	Z	09 37 24			
	TA	eP	Z	09 37 40			
	WN	eP	Z	09 37 54			
Epicentre			09 33 21.8	17.9S	178.7W	545km	USCGS
12 WN	eL	Z	23 28				
	RX	eL	E	23 31			
Epicentre			22 50 58.8	3.9S	104.1W	25km	6.28 USCGS
13 KP	eP	Z	03 43 00				
	WN	e	Z	03 43 02			
	e	Z	53				
	eL	Z	04 07				
	M	Z	10				
	TU	eP	Z	03 43 07	1.7	20	
	CT	e	Z	03 43 11			
	RX	eL	E	04 10			
	M	Z	12				
Epicentre			03 32 00.5	10.4N	122.6E	66km	2.21 USCGS
	or	03 32 12.6	10.2N	121.7E	157km		5.8 USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL 13	ON	eP	E 04 12 30				
		eS	E 13 40				
KP	eP	Z	04 12 35				
	e	Z	37				
	e	Z	13 14				
	e	Z	25				
	e	Z	32				
TU	eP	Z	04 12 35				
	e	Z	44				
	e	Z	13 26				
	e	Z	41				
	e	Z	45				
CT	e(S)	Z	04 12 51				
	e(P)	Z	04 12 48				
	e	Z	52				
	e	Z	14 05				
TA	eP	Z	04 12 59				
	eS	Z	14 33				
	e	Z	39				
WN	eP	Z	04 13 13				
	e	Z	58				
	eS	ZNE	14 57				
	e	Z	15 33				
KM	e	X	04 13 53				
	eS	X	15 52				
GP	eP	N	04 13 50				
	eS	N	16 02				
RX	e(P)	Z	04 14 29				
	e	Z	15 03				
	e	Z	17 03				
CB	eS	B	04 15 13				
Epicentre			04 10 59	338 179W 200km	NZ(D) 5.9		
14	KP	eP	Z 20 50 49 u				
	e(pP)	Z	51 03				
Epicentre			20 58 01.3	50.2N 155.8E 60km	USCGS		
14	KP	eP	Z 23 44 44				
TU	eP	Z	23 44 52				
Epicentre			23 34 33.7	18.7N 145.5E 198km	USCGS		
15	KP	eP	Z 06 59 40				
	epP	Z	07 00 04				
	esP	Z	15				
TU	eP	Z	06 59 45				
	epP	Z	07 00 10				
CT	eP	Z	06 59 50				
	epP	Z	07 00 09				
WN	eL	Z	07 27				
Epicentre			06 47 22.5	39.8N 140.9E 103km	USCGS		
15	CT	e(P)	Z 09 43 44				
TU	e(P)	Z	09 43 45				
Epicentre			09 33 39.3	14.7N 146.3E 25km	USCGS		
15	KP	P	Z 19 38 27 u				
TU	eP	Z	19 38 41				
CT	eP	Z	19 38 43				
WN	e	Z	19 39 07				
	eL	Z	45				
	M	Z	46	0.3 21			
GP	eP	N	19 39 20				
Epicentre			19 34 09.4	20.3S 169.2E 24km	USCGS		
16	RX	eP	Z 02 09 34				
	e	Z	42				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL		e(S)	NE 13 25				
		e(L)	NE 14				
		M	Z 15				
			Z 02 10 38		3 20		
WN	e(P)	Z	NE 16				
		eL	Z 17				
		eL	Z 18				
		M	Z 19	4.7 19			3.2 24
CT	e?	Z	02 11 23				
SU	e(S)	N	02 19 55				
		eL	N 26				
		M	N 30				
Epicentre			02 04 52.6	52.1S 138.9E 14km			USCGS
16	KP	eP	Z 06 28 28				
	Epicentre		06 17 04.0	28.2N 142.5E 38km			USCGS
16	SU	e(S)	N 07 52 30				
	e	N	53 06				
KP	eP	Z	07 54 14				
Epicentre			07 50 09.8	17.8S 178.4W 519km			USCGS
16	KP	eP	Z 08 33 51				
CT	eP	Z	08 34 04				
WN	eP	Z	08 34 08				
RX	eP	Z	08 34 46				
Epicentre			08 28 10.8	11.8S 166.4E 57km			USCGS
16	SU	e(P)	N 09 28 45				
	e	N	29 10				
	eS	N	31 00				
ON	eP	E	09 30 54				
KP	P	Z	09 31 12 u				
	e(pP)	Z	45				
	eSP	Z	32 12				
TA	eP	Z	09 31 22				
TU	eP	Z	09 31 23 d				
CT	P	Z	09 31 24 u				
CB	eP	E	09 31 36				
WN	eP	ZNE	09 31 37				
GP	eP	N	09 31 56				
RX	P	Z	09 32 08				
Epicentre			09 25 55.4	13.0S 167.2E 180km			USCGS
16	WN	eL	Z 13 46				
	M	Z 47	0.4 25				
Epicentre			12 54 40.6	62.3N 153.1W 39km			USCGS
16	WN	eL	Z 16 44	0.8 28			
Epicentre			16 16 40.9	38.4S 108.6W 25km			USCGS
16	SU	e(S)	N 20 09 57				
KP	P	Z	20 11 37 u				
	e	Z	12 08				
TU	e(P)	Z	20 11 39				
TA	e?	Z	20 11 54				
	e	Z	12 01				
GP	e	N	20 12 37				
Epicentre			20 07 13.4	19.9S 175.7W 114km			USCGS
17	WN	eP	Z 05 43 50				
	e(S)	Z	54 02				
	eL	Z	06 07				
	M	Z	11	0.8 18			
CT	eP?	Z	05 43 56				
KP	eP	Z	05 44 01				
	e	Z	11				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL	RX	e(S)	N 05 53 28				
	eL		N 06 04				
	Epicentre		05 32 08.8	43.0S 74.9W 26km			USCGS
17	KP	eP	Z 17 33 11				
	RX	eP	Z 17 33 39				
	e(SKS)	N	u.u.1				
	eL	N	18 03				
	M	N	08	2 22			
	WN	e(PPS)	Z 17 46				
	eL	Z	18 01				
	M	ZNE	06				
	SU	eL	N 17 53	1.7 21	3.2 21	2.7 24	
	M	N	56	5 20			
	Epicentre		17 20 22.9	43.1N 144.5E 30km			USCGS 6.0
18	TA	eP	Z 06 03 27				
	GP	e(P)	N 06 03 29				
	KP	eP	Z 06 03 31				
	e	Z	51				
	CT	eP	Z 06 03 33				
	TU	eP	Z 06 03 40				
	e	Z	04 08				
	Epicentre		05 53 48.1	9.6S 119.8E 68km			USCGS
18	TU	eP	Z 09 32 50				
	Epicentre		09 23 37.5	7.2S 119.9E 588km			USCGS
18	KP	eP	Z 10 20 13				
	TU	eP	Z 10 20 20				
	Epicentre		10 10 12.7	15.3N 148.1E 16km			USCGS
18	KP	e(P)	Z 14 45 42				
	CT	eP?	Z 14 45 48				
	TU	e(S)	Z 14 48 53				
	GP	eS	N 14 50 53				
	Epicentre		14 41 45.0	21.5S 175.8W 218km			USCGS
19	TA	eP	Z 00 59 37				
	CT	1P	Z 00 59 41 u				
	TU	P	Z 00 59 44				
	WN	eP	Z 00 59 51				
	eL	Z	01 12				
	Epicentre		00 52 13.9	5.1S 153.6E 49km			USCGS
19	KP	P	Z 03 44 21				
	TA	e	Z 03 45 06				
	Epicentre		03 39 45.3	17.3S 173.3W 15km			USCGS
19	KP	P	Z 12 51 42				
	TU	eP	Z 12 51 44				
	CT	eP?	Z 12 51 52				
	TA	eP	Z 12 51 57				
	WN	eP	ZNE 12 52 10				
	KM	eP	X 12 52 44				
	GP	e(P)	N 12 52 46				
19	KP	eP	Z 22 18 03				
	Epicentre		22 05 45.0	39.8N 140.7E 93km			USCGS
20	KP	eP	Z 16 31 43				
	TU	e(P)	Z 16 31 43				
	e	Z	32 02				
	CT	eP	Z 16 31 59				
	RX	eP	Z 16 33 19				
	eL	Z	41				
	M	E	42				
				1.5 20			
					5.3		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL	GP	e(S)	N 16 37 05				
	WN	eL	ZE 16 39				
	M	Z	40	0.5 17	21.0S 174.8W 28km		
	Epicentre		16 27 20.9				USCGS
20	KP	eP	Z 23 40 24				
	TU	eP	Z 23 40 39				
	Epicentre		23 31 37.8	5.6S 128.7E 297km			
	22	eP?	Z 00 25 01				
	Epicentre		00 16 07.2	3.2S 137.5E 104km			
	22	KP	Z 00 28 51				
	CT	e(P)	Z 00 28 59				
	TU	e(P)	Z 00 29 02				
	SU	eL	N 00 30				
	WN	e	Z 00 39.5				
	eL	Z	41	1.2 25			
	M	Z	42	2.0 19	5.7 17	6.7 18	
	M	ZNE	45				
	M	ZNE	49	2.7 15			
	RX	eL	N 00 42				
	eL	E	44				
	M	ZNE	50				
	Epicentre		00 21 30.9	5.9S 151.7E 81km			USCGS
22	ON	eP	E 10 03 55				
	KP	P	Z 10 04 09 u				
	TU	e(P)	Z 10 04 13				
	eS	Z	07 21				
	CT	eP	Z 10 04 17				
	e	Z	20				
	e(S)	Z	07 34				
	e	Z	45				
	TA	e(P)	Z 10 04 22 d				
	i	Z	26				
	WN	P	ZNE 10 04 39				
22	ON	eP	E 13 43 01				
	e	Z	16				
	KP	P	Z 13 43 19 u				
	e(pP)	Z	49				
	e	Z	44 02				
	ePcP	Z	46 07				
	TA	eP	Z 13 43 25				
	e(pP)	Z	57				
	CT	P	Z 13 43 28 u				
	e(pP)	Z	44 01				
	e	Z	11				
	TU	eP	Z 13 43 32				
	WN	eP	Z 13 43 40				
	eL	ZNE	54				
	GP	eP	N 13 43 53				
	RX	eP	Z 13 44 04				
	eL	E	53				
	Epicentre		13 36 49.7	8.4S 158.8E 107km			USCGS
22	ON	eP	E 18 12 42				
	KP	eP	Z 18 12 55				
	i	Z	59 u				
	TU	e	Z 18 13 05				
	CT	eP	Z 18 13 06				
	eS	Z	15 54				
	TA	e(P)	Z 18 13 13				
	WN	e(P)	ZNE 18 13 30				
	eS	NE	16 26				
	GP	eS?	N 18 17 33				
	Epicentre		18 09 57.7	24.0S 180.0 634km			USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL 22	CT	e	Z 23 57 31				
		e	Z 43				
KP	eP	Z	23 57 35				
TU	e	Z	23 58 04				
WN	e(L)	Z	24 17				
Epicentre			23 49 27.0	3.5S 145.6E 28km			
				USCGS			
23	KP	eP	Z 15 01 26				
TU	e(S)	Z	15 04 33				
GP	eS	N	15 06 24				
23	KP	P	Z 23 14 33				
RX	eP	Z	23 15 27				
	eL	E	24				
WN	eL	Z	23 22				
	M	Z	26	1.5 18			
Epicentre			23 09 12.4	14.1S 166.8E 99km			
				USCGS			
24	KP	eP?	Z 16 34 25				
	e	Z	29				
WN	eL	Z	17 00				
Epicentre			16 23 10.8	10.3N 121.5E 21km			
				USCGS			
24	WN	e(PP)	Z 21 26.1				
	ePS	Z	35 42				
	eL	Z	55				
	M	Z	56	1.7 32			
RX	eL	NE	21(57)				
Epicentre			21 08 22.6	15.5N 92.5W 129km			
				USCGS			
25	WN	eL	Z 00 56				
Epicentre			00 11 52.2	14.4S 76.1W 46km			
				USCGS			
25	KP	eP	Z 04 53 02				
TU	e	Z	04 53 14				
25	WN	ePS	Z 05 00.8				
	eSS	Z	12				
	eL	Z	30				
	M	Z	31	2.7 30			
RX	e(PS)	E	05(07)				
	eL	E	{32}				
	M	NE	(39)				
Epicentre			04 37 50.7	2 19 18.9N 81.1W 64km	2 19	6.1	
				USCGS	5.6		
26	KP	e(P)	Z 04 35 58				
Epicentre			04 23 11.9	47.1N 153.9E 35km			
				USCGS			
26	WN	eL	Z 05 23				
Epicentre			05 02 14.0	5.5S 151.1E 93km			
				USCGS			
26	KP	e(P)	Z 07 08 35				
WN	eL	Z	07 21				
	eL	Z	27				
RX	eL	ZNE	07 28				
Epicentre			07 01 01.8	5.3S 150.8E 71km			
				USCGS			
26	KP	eP?	Z 08 28 51				
	e	Z	29 00				
	e	Z	15				
	e	Z	31 41				
	e	Z	32 18				
	ePP	Z	33 06				
	ePKKP	Z	44 43				
	e	Z	45 10				
WN	P	Z	08 28 52	1.0 18			
	ePP	ZB	33 08	4.7 26			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL							
	e(PPP)	ZE	35				
	e	E	38 38				35 24
	eSKS	ZNE	39 15				
	e(S)	NE	41				
	ePS	ZNE	42				
	ePPS	Z	43				
	eSS	ZNE	48.1				400 24
	G	NE	58.9				
	R	Z	09 02				
	M	ZE	04				
	M	Z	08				
	TU	ePP	Z 08 33 02				
	SU	ePP	N 08 33.1				
	e(SKKS)N		40 20				
	e(SS)	N	47 08				
	e(SSS)	N	51 05				
	eG	N	56.7				
	M	N	09 12				
	RX	ePP	ZE 08 23 06				
	eSKS	E	39 56				
	e(S)	N	41.4				
	ePS	ZNE	43 03				
	ePPS	E	43.9				
	eSS	NE	49				
	eSSS	E	52.5				
	eL	Z	09 05				
	M	ZE	07				
	ON	ePP	E 08 33 14				
	ePS	E	42 24				
	ePPS	E	43 12				
	eSS	E	48 23				
	CB	ePS	E 08 42 38				
	eSS	E	48 42				
	GP	e(PPS)	N 08 43 27				
	eSS	N	48 42				
	eL	N	09 04				
	Epicentre		08 14 41.8	7.5N 82.7W 21km			USCGS 6.7
	26	KP	P	Z 13 43 24			
	TU	eP	Z 13 43 25				
	TA	eP?	Z 13 43 25				
	26	KP	eP	Z 21 44 50			
	WN	eL	Z 22 17				
	RX	eL	NE 22 18				
	Epicentre		21 32 17.9	56.4S 25.7W 25km			USCGS
	27	KP	eP	Z 01 27 27			
	Epicentre		01 16 50.8	21.7N 144.4E 100km			USCGS
	27	KP	eP	Z 06 16 57			
	TU	eP	Z 06 17 08				
	Epicentre		06 11 55.3	14.8S 167.6E 205km			USCGS
	27	WN	eL	Z 11 17			
		M	Z 18				
	RX	eL	E 11 18	0.3 20			
	27	KP	eP	Z 11 56 48			
		e	Z 50				
	TU	eP	Z 11 57 00				
	Epicentre		11 51 41.0	15.5S 167.2E 139km			USCGS
	27	WN	eL	Z 13 29			
	Epicentre		12 38 35.1	51.6N 174.1W 60km			USCGS
	27	ON	eP	E 19 31 26			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL	KP	eP	Z 19 31 42				
	TU	eP	Z 19 31 53				
	WN	eP	Z 19 32 09				
	GP	eP	N 19 32 26				
	Epicentre		19 26 34.6	13.2S 167.1E 286km	USCGS		
28	SU	e	N 00 07 05				
		e	N 09 35				
	eL	N	09				
	ON	eP	E 00 10 11				
	KP	P	Z 00 10 24				
	e	Z	42				
	TU	eP	Z 00 10 25				
	e(S)	Z	14 24				
	TA	eP	Z 00 10 39				
	WN	e(P)	Z 00 10 55				
	e	NE	58				
	e	Z	11 12				
	eL	ZE	15				
	M	Z	20	0.5 26			
	M	Z	23	0.6 20			
	KM	eP	X 00 11 18				
	GP	eP	N 00 11 26				
	e(S)	N	16 44				
	RX	e	Z 00 11 50				
	e	N	17 01	3 28			
	eL	NE	19.5				
	M	E	21				
	Epicentre		00 05 10.8	16.2S 173.2W 40km	USCGS	10 30	
28	KP	eP	Z 14 10 10				
28	KP	eP	Z 19 55 08				
	e	Z	19				
	Epicentre		19 43 00.3	36.9N 141.9E 32km	USCGS		
28	RX	P	ZNE 23 39 36				
	e	N	52				
	eS	E	54				
	e	Z	55				
	GP	eP	N 23 40 00				
	e	N	10	5.3			
	e	N	14				
	e(Sg)	N	53				
	e	N	59				
	CB	eP	E 23 40 18				
	e	E	41	5.5			
	e(S)	E	41 15				
	e	E	20				
	WN	eP	Z 23 40 31				
	e	ZNE	36	5.0			
	e	E	41 38				
	e(S)	ZN	44				
	e	E	50				
	TA	eP	Z 23 40 49				
	e	Z	42 19				
	KP	eP	Z 23 41 10				
	e	Z	16				
	e	Z	42 46				
	TU	e	Z 23 41 18				
	e(P*)	Z	40				
	e	Z	48				
	eS	Z	42 51				
	e	Z	43 06	5.7			
	ON	eP	Z 23 41 29				
	e(S)	E	43 14				
	e	E	25				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL		e(Sg)	E 44 51				
	Epicentre		23 39 12				
29	KP	eP	Z 01 36 24				
	e	Z	37 53				
29	KP	P	Z 03 49 13				
	Epicentre		03 37 24.4	25.5N 125.4E 184km	USCGS		
29	SU	e(L)	N 14 36				
29	CB	P	E 18 20 08				
	WN	P	ZNE 18 20 12 dnw				5.0 +
		S	ZNE 26 1				
	GP	iP	N 18 20 27 1				5.7
		S	N 54				
	TA	P	Z 18 20 28 1				
		S	Z 53				
	TU	P	Z 18 20 45				
		e	Z 21 18				
			26				
	KP	P	Z 18 20 47				
	RX	eP	Z 18 21 02				
		eS	Z 56				
	ON	eP	E 18 21 13				
		eS	E 22 11				
	Epicentre		18 19 52				
30	KP	P	Z 14 09 11				
	e	Z	11 31				
	e(S)	Z	12 32				
	TU	e(P)	Z 14 09 12				
	e	Z	11 30				
	e	Z	12 18				
			25				
	TA	eP	Z 14 09 26				
	ON	e?	E 14 11 12				
	e?	E	25				
	WN	eS	ZNE 14 13 33				
	GP	eS	N 14 14 36				
	Epicentre		14 04 38.2	19.9S 176.9W 33km	USCGS		
30	KP	e?	Z 16 02 05				
	e	Z	25				
	SU	eL	N 16 04				
	TU	e?	Z 16 04 32				
	WN	eL	ZNE 16 07	1.1 24			
30	SU	e(P)	N 16 42 11				
	e	N	19				
	e(S)	N	45				
	KP	eP	Z 16 46 29				
	TA	e?	Z 16 46 46				
	e	Z	55				
30	SU	e	N 17 24 05				
	(PP)	N	25 35				
	eL	N	32				
	ON	eP	E 17 24 49				
	e	E	25 14				
	KP	iP	Z 17 25 02 u				
		(PP)	Z 26 55				
	ePPP	Z	28 12				
	eL	Z	40				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
JUL	TA	eP	Z 17 25 05				
		ePPP	Z 28 16				
CB	eP	E 17 25 08					
TU	eP	Z 17 25 13					
	ePPP	Z 28 24					
	e(PcS)	Z 30 51					
WN	P	ZNE 17 25 16					
	ePPP	Z 28 27					
	M	NE 40		240 16	280 19		
	M	E 44					
	M	N 46					
GP	P	N 17 25 21					
	ePPP	N 28 33					
RX	eP	Z 17 25 21					
	eL	NE 33					
	M	NE 43					
Epicentre		17 16 44.4	70 19	70 18			
			3.38 143.9E 25km	USCGS	6.8		
30	KP	ePKP	Z 20 37 38				
	SU	e(SS)	N 20 53				
	G	N 21 03					
Epicentre		20 18 49.3	5.0N 76.3W 45km	USCGS	6.8		
31	TU	eP	Z 02 27 37				
Epicentre		02 19 05.2	3.28 144.1E 20km	USCGS			
31	KP	e(P)	Z 05 21 34				
Epicentre		05 19 17.5	32.5N 132.1E 33km	USCGS			
31	KP	eP?	Z 05 24 54				
	e	Z 59					
TA	e(P)	Z 05 24 56					
RX	eP	Z 05 25 01					
TU	eP	Z 05 25 02					
Epicentre		05 13 04.1	18.8N 120.8E 39km	USCGS			
31	RX	eP?	Z 11 38 31				
KP	P	Z 11 38 33					
	e	Z 55					
Epicentre		11 25 05.5	19.7S 67.7W 270km	USCGS			
AUG	1	RX	eP	Z 03 49 51			
	eL	E 04 00					
SU	e	N 03 52 00					
	eL	N 54 26					
ON	eP	E 03 52 07					
KP	eP	Z 03 52 07					
TU	eP	Z 03 52 09					
	e	Z 54 19					
	e	Z 26					
TA	e?	Z 03 52 48					
WN	eP?	Z 03 52 57					
	eS	ZNE 55 31					
	eL	Z 57.5					
	M	Z 59	2.1 19				
GP	eP?	N 03 53 32					
KM	e?	X 03 55 58					
Epicentre		03 49 11.9	27.0S 176.4W 33km	USCGS			
1	SU	eP	N 04 44 16				
	eS	N 50 00					
	eL	N 53 23					
ON	eP	E 04 45 07					
	e(PP)	E 47 05					

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG	KP	eP	Z 04 45 14.4				
	e?	Z 46 59					
	e	Z 47 14					
	TA	eP	Z 04 45 17				
	CB	eP?	E 04 45 20				
	e	Z 24					
	eS	E 52 07					
	eL	E 05 02					
	M	E 03					
	TU	eP	Z 04 45 26				
	WN	eP	ZNE 04 45 27 $\frac{1}{2}$				
	e	ZE 32					
	ePP	Z 47 22					
	eS	ZE 52(28)					3.2 26
	e(Lq)	Z 57 26					5.5 22
	eLr	Z 59.5					36 19
	M	Z 05 04					
	RX	eP	Z 04 45(33)				
	eS	NE 52(16)					
	eLq	NE 57.6					
	eLr	Z 05 01.0					
	M	ZNE 02					
	GP	eP N 04 45 34					
	KM	eP? X 04 45 35					
	e	X 39					
	eL	X 05 03.8					
	M	X 10					
	Epicentre	04 36 57.6	3.28 143.7E 33km	USCGS	6 $\frac{1}{2}$ - $\frac{3}{4}$ PAS		
	1	ON	eP E 05 24 17				
	e	E 19 $\frac{1}{2}$					
	TU	eS Z 05 26 39					
	Epicentre	05 21 25.5	27.1S 176.3W 34km	USCGS			
	1	TU	e Z 12 44 02				
	e	Z 17					
	e(S)	Z 45 04					
	SU	eL N 12 44.5					
	M	N 45					
	GP	e(S) N 12 46 20					
	WN	eL Z 12 47.0					
	N	N 28					
	1	ON	eP E 12 50 52				
	TU	eP Z 12 50 54					
	eS	Z 53 01					
	GP	eP? N 12 52 07					
	eS	N 55(23)					
	SU	eL N 12 53.2					
	M	N 54					
	WN	eS NE 12 54 09					
	eL	Z 56.2					
	M	Z 58					
	RX	eL E 12 58.6	2.1 20				
	eL	N 13 01.0					
	Epicentre	12 47 46.6	27.1S 176.3W 33km	USCGS			
	2	KP	eP Z 13 34 05				
	TU	eP Z 13 34 17					
	Epicentre	13 26 42.4	4.8S 152.1E 79km	USCGS			
	3	ON	eP E 07 23 59				
	KP	eP Z 07 24 03					
	e	Z 25 14					
	TU	eP Z 07 24 00					

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG	e	Z	02				
	e	Z	25 08				
TA	e	Z	07 24 40				
CT	eP	Z	07 24(23)				
	e	Z	26(05)				
WN	eS	ZNE	07 26 12				
GP	eS	N	07 27 18				
Epicentre			07 22 31	34S 179W 350km	NZ(D)	5.3	
3	KP	IP	Z 09 09 29½ d				
	epP	Z	10 05				
	ePP	Z	13 20				
TU	eP	Z	09 09 24				
	epP	Z	10 02				
CT	eP	Z	09 09(26)				
	e(pP)	Z	10(11)				
	ePP	Z	13(15)				
WN	eP	ZNE	09 09 23 d	6.8 10			
	ePP	Z	13 05				
	e(SKS)NE	Z	19 42				
	e(PS)ZE	Z	21 11				
	e NE	Z	22 30				
	e(SSS)ZNE	Z	30 22				
	eLq NE	Z	34.9				
	e(Lq) Z	Z	35.0				
	M ZNE	Z	36	4.1 20	37 26	28 24	
CB	eP	E	09 09 31				
KN	eP	X	09 09 37				
GP	eP	N	09 09 23				
SU	eP	N	09 10 02				
	e{PP}	N	14 05				
	e{PS} N	Z	23 20				
	e(PPS)N	Z	24 11				
	e? N	Z	47				
Epicentre			08 56 12.1	23.2S 67.5W 71km	USCGS	7-7½ NS	
3	KP	eP	Z 10 10 56				
TU	eP	Z	10 11 10				
CT	eP	Z	10 11(07)				
GP	eP	N	10 11 34.05				
SU	e?	N	10 13 45				
Epicentre			10 04 44.6	10.1S 161.2E 40km	USCGS		
3	KP	eP	Z 10 19 57				
TU	eP	Z	10 20 19				
TA	eP	Z	10 20 10				
CT	eP	Z	10 20(16)				
WN	eP	ZNE	10 20 38				
	eL	Z	25.0				
	M Z	Z	26				
SU	eS	N	10 20 16	11 12			
	e(L) N	Z	21 15				
	M	Z	22	13 10			
GP	eP	N	10 21 03				
Epicentre			10 16 26.7	23.3S 171.2E 39km	USCGS		
4	KP	eP	Z 05 44 06				
TU	eP	Z	05 44 10				
CT	eP	Z	05 44 14				
	eS?	Z	48 26				
GP	eP	N	05 45 10				
Epicentre			05 39 20.7	17.4S 174.7W 135km	USCGS		
5	ON	eP	E 15 13 53				
KP	eP	Z	15 14 03				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG	TU	eP	Z 15 14 09				
	TA	eP	Z 15 14 13				
	GP	e?	N 15 14 53				
	RX	eP	Z 15 14 56				
	eL	E	22.6				
	eL	N	26.0				
	WN	eL	Z 15 22.7				
	M	Z	25				
Epicentre			15 08 34.1	13.7S 166.6E 60km	USCGS		
6	WN	ePKP	Z 01 55 17				
	eL	Z	02 49.6				
	M	Z	03 13 18				
TU	ePKP	Z	01 55 18				
	ePKP	Z	24				
KP	ePKP	Z	01 55 19				
	ePKP	Z	25				
TA	ePKP	Z	01 55 21				
Epicentre			01 35 30.5	32.0N 40.8W 48km	USCGS	6½ PAS	
6	WN	eL	Z 09 19.0				
	Epicentre		08 41 17.8	58.4S 25.5W 54km	USCGS		
6	KP	IP	Z 15 32 23 d?				
TU	IP	Z	15 32 33 d?				
Epicentre			15 27 20.0	15.3S 167.5E 120km	USCGS		
				Felt: Santa Cruz Is.			
6	SU	eP	N 20 54 12				11½ 5
	eS	N	56 10				25 7
	eL	N	56.7*				30 10
ON	eP	E	20 54 49				
	eS	E	57				
KP	eP	Z	20 54 56				
	e	Z	55 09				
TU	eP	Z	20 54 54				
	eS	Z	57 15				
TA	eP	Z	20 55 19				
	e	Z	56				
CT	eP	Z	20 55 09				
	e	Z	23				
	e(S)	Z	57 43				
WN	eS	ZNE	20 58 18				
	M	ZNE	01				
CB	e(S)	E	20 58 36				
KN	e	X	20 56 19				
	eS	X	59 19				
GP	eP	N	20 56 10				
	eS	N	59 28				
Epicentre			20 51 56.8	26.9S 177.1W 50km	USCGS	6 BER	
8	KP	eP	Z 12 05 03				
TU	eP	Z	12 05 21				
CT	eP	Z	12 05 15				
	epP	Z	20				
WN	eL	Z	12 12				
Epicentre			12 00 15.1	17.8S 168.0E 30km	USCGS		
8	KP	eP	Z 12 17 06				
TU	eP	Z	12 17 25				
TA	eP	Z	12 17 25				
CT	eP	Z	12 17 21				
	epP	Z	26½				
KN	eP	X	12 17 54				
WN	eL	Z	12 25				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG	Epicentre		12 12 22.5	17.9S	168.0E	33km	USCGS
8	TU	eP	Z 13 40 10				
	TA	eP	Z 13 40 05				
	CT	eP	Z 13 40 10				
	epP	Z	16				
KM	eP	X	13 40 49				
GP	eP	N	13 40 44				
WN	eL	Z	13 46.6				
M	Z	48					
Epicentre		13 35 11.2		18.0S	168.1E	33km	USCGS
9	CT	eP	Z 06 32 59				
	KP	eP	Z 06 33 01				
Epicentre		06 19 51.4		24.1S	66.5W	128km	USCGS
9	CT	eP	Z 17 36 31				
Epicentre		17 24 48.5		44.5S	73.4W	33km	USCGS
9	KP	eP	Z 23 22 05				
Epicentre		23 16 56		14.5S	167.4E	150km	NOUMEA
10	WN	eL	Z 24 03.1				
M	Z	03		1.4 29			
RX	eL	NE	24 01				
M	N	01		3.0 22			
M	E	02		4.4 11			
11	SU	iP	N 01 48 50 n				
	iS	N	49 53 n				
KP	eP	Z	01 51 17				
	eScP	Z	57 54				
TU	eP	Z	01 51 19 $\frac{1}{2}$				
e?	Z	53					
eS	Z	54 15					
eScP	Z	57 55					
e	Z	02 01 32					
e(ScS)	Z	39					
TA	eP	Z	01 51 34				
CT	eP	Z	01 51 26				
	eS	Z	54 34				
eScP	Z	57 56					
WN	eP	ZNE	01 51 47				
	eS	ZNE	55 04				
e(L)	Z	55					
eScS	NE	02 01 47					
KM	eP	X	01 52 06				
	eS	X	55 42				
GP	eP	N	01 52 13				
	eS	N	55 49				
e?	N	58 12					
RX	eP	Z	01 52 35				
	eS	Z	56 48				
eScP	Z	58 18					
eScS	Z	02 02 10					
Epicentre		01 47 39.6		20.0S	178.8W	638km	USCGS
11	SU	eP	N 06 49 22				
	eS	N	51 17		19 10		
KP	eP	Z	06 52 46				
	eS	Z	56 24				
TA	eP	Z	06 52 53				
RX	e?	Z	06 59 34				
	eL	E	07 02.6				
eL	N	03.3					

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG		M	05				2.8 20
	eL	Z	06.4				
	eL	N	07.9				
	M	N	08				
Epicentre		06 47 41.7		15.7S	172.9W	157km	USCGS
†† KP	iP	Z	08 27 37 d?				
	e(pP)	Z	28 13				
	e	Z	29 20				
	e?	Z	35 35				
	e?	Z	37 01				
TU	eP	Z	08 27 45 u?				
	eP	Z	08 27 40				
	e(pP)	Z	28 19				
OT	iP	Z	08 27 42				
	epP?	Z	28 36				
GP	eP?	N	08 27 53				
RX	eP	Z	08 27 49				
	eS	N	37 52				
	e	E	38 08				
	e(PS)	N	38 40				
	eSS	NE	43 08				
	e(Lq)	N	49 53				
	e(Lq)	E	50 20				
SU	eS	N	08 35 12				6.4 10
WN	e(S)	Z	08 37.5				
	eL	ZE	50				
	M	Z	56				
Epicentre		08 15 43.7		25.2N	123.3E	140km	USCGS
†† SU	eS	N	11 41 10±				
†† KP	eP	Z	18 21 43				
TU	eP	Z	18 21 54				
Epicentre		18 12 53.7		06.6S	130.3E	173km	USCGS
12 KP	ePKP	Z	05 09 18				
Epicentre		04 49 28.4		37.5N	30.7E	33km	USCGS
13 WN	e(PS)	ZE	07 02 52		0.8 32		5.6 32
	eSS	ZE	08 22				
	eL	ZE	22.1				
	M	ZE	22 $\frac{1}{2}$				
RX	e	E	07 03 22		1.8 32		8.5 32
	e	NE	09 04				
	eL	E	24.0				
	eL	N	25.9				
	eL	Z	28				
	M	NE	08 00				
Epicentre		06 35 56.0		2.4 18	2.2 18		6.1
14 GP	eP	N	01 12 52				
	e(S)	N	15 00				
	e?	N	16 02 $\frac{1}{2}$				
RX	eP	Z	01 12 10				
	e	NE	12				
	e(S)	NE	13 10				
	e	Z	20				
	eL	Z	44				
CT	eP	Z	01 13 55		59 15		
	e	Z	14 05				
	ePcP	Z	19 33				
WN	eP	Z	01 13 37				
	e?	Z	15 08				
	eLq	NE	35				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG	eL?	Z	50				
	eLr	Z	16 21				
	M	ZNE	18				
CB	eP	E	01 13 25	30 19	145 17	160 21	
	e?	E	15 23				
KM	eP	X	01 13 00				
	e?	X	14 44				
ON	eP	E	01 14 53				
KP	e(P)	Z	01 14 07				
TU	eP	Z	01 14 20				
TA	eP	Z	01 14 10				
15	KP	eP	Z 02 57 14				
	TU	eP?	Z 02 57 20				
	CT	eP	Z 02 57 20				
	Epicentre		02 45 33.9	31.4N	139.2E	155km	USCGS
15	KP	eP	Z 08 39 29				
	TU	eP	Z 08 39 38				
	CT	eP	Z 08 39 33				
	Epicentre		08 29 46.7	4.7N	122.6E	620km	USCGS
15	KP	eP	Z 11 33 36				
	epP	Z	48				
	e	Z	57				
	Epicentre		11 20 44.5	51.8N	177.0W	53km	USCGS
16	KP	eP	Z 08 55 30				
	e?	Z	56 00				
	TU	e(P)	Z 08 55 39				
	CT	eP	Z 08 55 38				
	Epicentre		08 44.9	Near 18N	146E		BCIS
17	SU	eP	N 00 34 42				
	e(L)	N	35.4				
	KP	eP	Z 00 37 42	11 12			
	WN	eL	Z 00 45 28				
	M	Z	47				
	RX	eL	E 00 47.0				
	eL	N	52.0				
	eL	Z	52.8				
	Epicentre		00 32 26.9	15.8S	172.9W	33km	USCGS
17	KP	eP	Z 03 36 27				
	Epicentre		03 23 31.5	31.6S	67.7W	33km	USCGS
17	KP	eP	Z 05 15 41				
	e	Z	16 07				
	TU	eP	Z 05 15 49				
	TA	eP	Z 05 15 41				
	WN	eP	ZNE 05 15 47				
	ePP	Z	18 30				
	eS?	E	25 00				
	e?	N	26 22				
	e(Lq)	ZN	34.8				
	M	ZN	35				
	e(Lq)	E	35.7				
	M	E	36				
	M	Z	41				
	GP	eP?	N 05 15 52	2.1 28			
	e(P)	N	55				
	RX	eP	Z 05 15 46				
	e	NE	24 58				
	eLq	NE	34.0				
				14 32			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG		M	35				
	eL	Z	35.8				
	SU	eS	05 23 48				
	Epicentre		05 04 31.5	10.6N	121.6E	33km	USCGS
17	KP	eP	Z 11 53 22				
	RX	eP	Z 11 54 37				
	Epicentre		11 48 47.3	15.2S	178.6W	391km	USCGS
17	KP	iP	Z 16 23 42				
	TU	eP	Z 16 23 44				
	CT	eP	Z 16 23 51				
	TA	eP	Z 16 23 57				
	Epicentre		16 19 47.3	19.3S	177.5W	528km	USCGS
17	SU	e	N 22 58 45				
	eS	N	23 00 06				
	e(L)	N	01 00				
	eL	N	25				
	KP	eP	Z 23 01 16				
	WN	eL	Z 23 10.0				
	RX	eL	E 23 11.6				
	eL	Z	16.6				
	Epicentre		22 55 55.4	15.4S	172.7W	33km	USCGS
18	KP	eP	Z 02 10 55				
	TU	eP	Z 02 11 09				
	e	Z	13				
	CT	eP	Z 02 11 09				
	e	Z	13				
	WN	eP	ZNE 02 11 28				
	GP	eP	N 02 11 48				
	RX	eP	Z 02 12 04				
	Epicentre		02 06 40.2	19.9S	170.2E	78km	USCGS
18	SU	eP	N 04 02 51				
	KP	eP	Z 04 05 04				
	e	Z	14				
	TA	eP	Z 04 05 18				
	CT	eP	Z 04 05 14				
	eS	Z	08 10				
	WN	eP	ZNE 04 05 33				
	eS	ZNE	08 35				
	GP	e?	N 04 06 18				
	e?	N	30				
	e?	N	59				
	eS	N	09 38				
	TU	eS	Z 04 07 55				
	KM	eS	X 04 09 12				
	Epicentre		04 01 33.5	21.9S	179.3W	516km	USCGS
18	WN	eL	ZNE 06 03.2				
	M	ZNE	05				
	Epicentre		05 42 02.8	0.7 25	1.4 22	2.2 22	
				3.5S	150.5E	19km	USCGS
18	WN	eL	ZNE 06 34.3				
	M	ZNE	36				
	Epicentre		06 12.9	0.7 20		2.2 18	BCIS
18	WN	eL	ZNE 08 43.2				
	M	ZNE	43.2				
	Epicentre		08 22 13.3	0.7 24		4.7S	150.2E
						82km	USCGS
18	WN	eL	ZE 17 35				
	M	ZE	36				
	Epicentre		16 43 54.3	0.3 24		62.3N	152.5W
						32km	USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG 18	WN	eL	ZNE 18 37.6				
	M	ZNE	39	0.8 25			
	Epicentre		17 46 14.9	62.3N 152.5W 32km			USCGS
18	SU	e(P)	N 20 46.3				
	e(S)	N	47 18		4.0 6		
WN	eL	Z	20 53.5				
	Epicentre		20 44 27.2	22.7S 173.1E 82km			USCGS
18	WN	eLr	ZN 23 09.4				
	M	ZN	12	0.6 15		2.0 15	
RX	eL	NE	23 11.3				
	Epicentre		22 49 47.5	7.3S 156.1E 60km			USCGS
19	WN	e	E 00 43 12				
	e	Z	44 28				
	Epicentre		00 23 03.9	19.9S 66.9W 240km			USCGS
19	KP	eP	Z 04 19 21				
	Epicentre		04 14 10.9	16.1S 173.4W 33km			USCGS
19	KP	eP?	Z 10 47 09				
	Epicentre		10 39 44.5	06.8S 149.5E 33km			USCGS
19	KP	ePKP	Z 18 45 23				
	e(PK)	Z	38				
CT	ePKP?	Z	18 45 21				
RX	ePKP?	Z	18 45 25				
eL	E	19 35					
WN	e(PKS)ZNE	18 58 14					
e(SSS)E	19 08 28						
eL	E	17					
eL	N	19					
eL	Z	21					
M	Z	32					
	Epicentre		18 26 38.6	7.6 26 44.6N 81.7E 33km			USCGS
19	KP	eP?	Z 21 29 38				
	Epicentre		21 19 54.6	04.5N 123.2E 552km			USCGS
19	KP	eP	Z 23 25 52 d?				
TU	eP	Z	23 25 46				
TA	eP	Z	23 25 52				
CT	eP	Z	23 25 49 d?				
WN	eP	Z	23 25 46				
GB	eP	E	23 25 53				
RX	eP	Z	23 25 48				
KM	eP	X	23 26 16				
	Epicentre		23 12 50.4	26.6S 69.8W 51km			USCGS
20	ON	eP?	E 11 26 01				
KP	eIP	Z	11 26 13				
TU	eP	Z	11 26 16				
CT	eP	Z	11 26 21				
e	Z	42					
e?	Z	29 31					
	Epicentre		11 22 39.8	20.9S 178.8W 605km			USCGS
20	KP	eP	Z 13 08 35				
TU	eP	Z	13 08 43				
CT	eP?	Z	13 08 35				
WN	eL	Z	13 29.6				
	Epicentre		12 58 24.1	12.4S 112.1E 87km			USCGS
20	WN	eP?	Z 15 24 25				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG		eL	Z 15 47.1				
	Epicentre		15 15 15.6	01.7S 133.8E 33km			USCGS
20	ON	eP	E 23 23 41				
	KP	eP	Z 23 25 57				
	e	Z	24 00				
	TU	eP	Z 23 24 08				
	TA	eP	Z 23 24 10				
	CT	eP	Z 23 24 09				
	e	Z	12				
	GP	eP	N 23 24 36				
	RX	eP?	Z 23 24 53½				
	eL	Z	33				
	eL	N	36				
	WN	eL	Z 23 31.4				
	M	Z	34				
	Epicentre		23 18 39.8	0.6 22 14.7S 166.6E 52km			USCGS
21	ON	e?	E 07 26 50				
	KP	e	Z 07 26 27				
	e	Z	27 46				
	TU	e?	Z 07 26 21				
	e	Z	27 34				
	CT	e?	Z 07 26 52				
	e	Z	28 01				
	GP	e	N 07 29 48				
	Epicentre		07 24 45	35.0S 176.5W N NZ(D)			5.0± NZ
21	ON	eP	E 16 12 47				
	e	E	13 13				
	KP	eP	Z 16 12 46				
	e	Z	13 03				
	TU	eS	Z 16 14 48				
	GP	eP	N 16 14 10				
	eS?	N	17 08				
	e(S)	N	26				
	CT	eS	Z 16 15 27				
	WN	eL	Z 16 17.9				
	M	Z	23				
	RX	eL	E 16 20.3				
	eL	N	22.3				
	Epicentre		16 10 08.7	1.2 16 28.2S 176.7W 57km			USCGS
21	KP	eP	Z 17 09 54				
	TU	eS	Z 17 14 17				
	CT	eS	Z 17 14 28				
	WN	e?	NE 17 15 27				
	GP	e(S)	N 17 16 31				
	Epicentre		17 04 35.2	15.5S 172.6W 33km			USCGS
21	WN	eL	Z 19 15				
	Epicentre		18 09 06.8	41.5N 15.4E 36km			USCGS
21	WN	eL	Z 19 42.4				
	M	Z	58				
	RX	eL	N 20 02				
	Epicentre		18 19 33.3	41.4N 15.5E 34km			USCGS
21	ON	eP	E 21 08 31				
	e	E	41				
	e	E	11 48				
	KP	eP	Z 21 08 33				
	M	E	14				
	e	Z	10 32				
	eS	Z	10 32				

- FEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h	m	s	Az	Tz	An	Tn	Ae	Te
AUG 22	TU	e	Z	12	10	40					
	GP	eP	N	12	10	06					
		eS	N		12	45					
	WN	eS	NE	12	11	40					
		eL	Z		12	13.9					
		M	Z		15		6.7	19			
	SU	eL	N	12	12						
		M	N		12						
	RX	eL	NE	12	15.8						
	Epicentre			12	05	54.9					
							28.6S	176.7W	56km		USCGS
	22	WN	eL	Z	14	59.4					
		M	Z	15	01		0.4	18			
		RX	eL	E	15	00.8					
	Epicentre			14	31	44.2					
							29.5S	112.3W	33km		USCGS
	22	KP	eP	Z	21	19	01				
		TU	eP?	Z	21	19	13				
	Epicentre			21	08	22.9					
							8.3N	123.8E	125km		USCGS
	23	KP	eP	Z	13	07	50				
	Epicentre			13	03	44.5					
							17.5S	178.7W	571km		USCGS
	23	ON	eP	E	15	40	31				
		KP	eP	Z	15	40	44				
		TU	eP	Z	15	40	45				
		CT	eP?	Z	15	40	54				
		e	Z		41	58					
		TA	eP	Z	15	41	01				
		RX	eP	Z	15	42	02				
		(eP)	Z			13					
	Epicentre			15	29	46.6					
							22.9N	120.8E	17km		USCGS
	23	KP	eP	Z	16	52	17				
	Epicentre			16	48	46.3					
							21.4S	179.1W	587km		USCGS
	23	SU	eL	N	19	21					
		KP	e	Z	19	22	41				
		e	Z			50					
	Epicentre			19	17	26.6					
							15.6S	172.2W	33km		USCGS
	24	KP	eP?	Z	04	04	39				
		TU	eP	Z	04	04	50 ¹ ₂				
	Epicentre			03	58	46.2					
							11.2S	165.0E	32km		USCGS
	24	SU	eP?	N	06	49	15				
		eS	N			50	20				
	ON	eP	E		06	49	53				
		eS	E			52	07				
	KP	eP	Z		06	50	10				
		e	Z			51	17				
	TU	eP	Z		06	50	12				
		e(S)	Z			52	37				
		e	Z			53	06				
	TA	eP	Z		06	50	20				
		e(S)	Z			52	57				
	WN	eP?	Z		06	50	39				
		eP	ZNE				42				
		e	Z			53	20				
		eS	ZNE			53	30				
	CB	eP	E		06	50	44				
		eS	E			53	35				
	RM	eP	X		06	51	01				
		eS	X			54	03				
	GP	eP	N		06	51	08				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG							
	eS	N	54 14				
	RX	eP	Z	06 51 29			
	Epicentre			06 47 08.1	24.58	178.8E	526km
24	SU	iP	N	09 06 44			
	eS	N	08 17				
	eL	N	44				
	M	N	10				
	ON	eP	E	09 09 36			
	eL	E	15 40				
	KP	eP	Z	09 09 46			
	TU	eP?	Z	09 10 02			
	TA	eP	Z	09 10 03			
	WN	eL	ZNE	09 15.3			
	M	ZNE	19				
	RX	eL	NE	09 19.1			
	eL	Z	21				
	M	NE	23				
	M	Z	23				
	Epicentre			09 04 22.9	10 19	8.7 25	27 22 47 26
25	SU	iP	N	08 33 14			
	e?	N	35 23				
	ON	eP	E	08 35 14			
	eS	E	38 02				
	KP	iP	Z	08 35 28 $\frac{1}{2}$			
	e?	Z	37 22				
	eScP	Z	42 12				
	TU	eP	Z	08 35 30			
	eS	Z	38 31				
	eScP	Z	42 15				
	eScS	Z	45 57				
	TA	eP	Z	08 35 42			
	e	Z	38 12				
	eScP	Z	42 16				
	CT	eP	Z	08 35 36			
	e	Z	36 19				
	e	Z	38 56				
	eScP	Z	42 17				
	eScS	Z	46 00				
	WN	eP	ZNE	08 35 56			
	e(sP)	ZNE	38 22				
	eS	ZNE	39 15				
	eScP	ZNE	42 23 $\frac{1}{2}$				
	eScS	ZNE	46 03				
	CB	eP	E	08 36 05			
	eS	E	37 22				
	KM	eP	X	08 36 15			
	eS	X	39 48				
	eScS	X	46 08				
	GP	eP	N	08 36 21			
	eS	N	39 59				
	eScP	N	42 29				
	eScS	N	46 17				
	RX	eP	Z	08 36 46			
	e	Z	38 44				
	e(sP)	N	39 24				
	e(s)	ZE	40 47				
	eScP	Z	42 37 $\frac{1}{2}$				
	eScS	ZE	46 30				
	Epicentre			08 31 48.7	20.58	178.5W	561km
26	KP	eP	Z	00 51 05			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag	
AUG								
	TU	eP	Z	00 51 16				
	OT	eP	Z	00 51 17				
	Epicentre			00 45 28.5	11.38	166.4E	135km	
26	KP	eP	Z	07 01 01				
	TU	eP	Z	07 01 10				
	OT	eP	Z	07 01 07				
	RX	eL	E	07 26.0				
	eL	NE	29.1					
	WN	eLr	ZNE	07 27.3				
	M	ZNE	30					
	Epicentre			06 48 57.1	1.7 25	4.1 24	2.7 25	
26	KP	eP	Z	22 47 15				
	Epicentre			22 35 13.9	34.3N	139.3E	54km	
	KP	eP	Z	23 39 07				
	e	Z	50					
	TU	eP	Z	23 39 18 $\frac{1}{2}$				
	TA	eP	Z	23 39 09				
	CT	eP	Z	23 39 13				
	RX	e	Z	23 39				
	e(S)	NE	23 46.5					
	e(Lq)	E	51					
	e(Lq)	N	53					
	WN	e(S)	Z	23 46.1				
	e	Z	50.1					
	eLr	Z	54.4					
	M	Z	24 00					
	eLr	E	24 00					
	M	E	24 00					
	Epicentre			23 30 38.0	3.7S	140.1E	50km	
	KP	eP	Z	02 31 07				
	TU	eP	Z	02 31 12				
	OT	eP	Z	02 31 11				
	Epicentre			02 18 58.8	40.2N	137.8E	274km	
	KP	eP	Z	05 06 51 $\frac{1}{2}$				
	KP	eP	Z	16 32 19 $\frac{1}{2}$				
	epP	Z	30					
	TU	e(pP)	Z	16 32 36				
	OT	eP?	Z	16 32 24 $\frac{1}{2}$				
	epP	Z	35					
	WN	eL	Z	17 00.0				
	M	Z	04					
	Epicentre			16 20 04.7	1.0 20	38.3N	142.4E	40km
	KP	eP	Z	23 36 25				
	TU	eP	Z	23 36 31				
	e?	Z	38 24					
	Epicentre			23 28 45.2	06.0S	149.5E	48km	
	KP	eP	N	23 33 40				
	e	N	50 54					
	KP	eP	Z	23 33 51				
	e	Z	54					
	TU	eP	Z	23 34 07				
	e?	Z	38 24					
	TA	eP	Z	23 34 07				
	CT	eP	Z	23 34 08				
	WN	eP	NE	23 34 30				
	e(SS)	Z	38 19					
	eL	Z	39.1					

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG		M Z	40				
	CB eP	B	23 34 27				
	KM eP	X	23 34 54				
	Epicentre		23 30 10.4	21.68	171.5E	69km	
28	SU eL	N	00 44.3				
	KP eP	Z	00 45 17				
	TU eP	Z	00 45 21				
	TA eP	Z	00 45 36				
	WN eL	Z	00 54.1				
	RX eL	B	00 55.8				
	Epicentre		00 40 04.9	15.73	173.1W	33km	
28	MN eL	Z	08 52.0				
	eL N		53.6				
	eL E		55				
	Epicentre		08 13 12.4	34.2N	139.3E	38km	
28	SU ePKP N		11 19 46				
	e(PKB) N		23(20)				
	e(SKB) N		35				
	KP ePKP ₁	Z	11 19 42				
	e Z		55				
	e Z		20 03				
	iPKP ₂	Z	19 d				
	e? Z		27				
	e(SKB) Z		23 12				
	ePP Z		24 02				
	TU e(PKP ₁)	Z	11 19 44				
	e Z		50				
	ePKP ₂	Z	20 23				
	ePP Z		24 06				
	WN ePKP ₁	Z	11 19 41				
	e Z		53				
	ePKP ₂	Z	20 17				
	e(PPP) Z		28 06				
	e Z		32 08				
	e Z		11 34 06				
	e Z		37 18				
	e(Lr) Z		12 14.7				
	eLr Z		19.2				
	M Z		26	1.5 22			
	e? Z		36 08				
	GP e N		11 19 59				
	ePKP ₂ N		20 11				
	RX e Z		11 19 45				
	ePKP ₂ Z		59				
	e Z		20 27				
	ePP N		23 50				
	e Z		32 58				
	eSS NE		43 05				
	eRSS B		30				
	eSSS N		49 40				
	e Z		53 02				
	eL N		12 24				
	ON e(PKP ₂) E		11 20 20				
	TA ePKP ₂ Z		11 20 16				
	CB e(PKP ₂) E		11 20 10				
	KM e X		11 20 08				
	ePKP ₂ Z		12				
	e Z		57				
	Epicentre		10 59 58.5	38.0N	23.1E	+120km	
29	WN eL M	Z	03 32.5				
			35	0.6 22			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG 29	KP eP	Z	22 48 59				
	TU eP	Z	22 49 11				
	CT eP	Z	22 49 10				
	WN e(Lq)	Z	23 11.5				
	eLr Z		14.5				
	M Z		17	1.4 27			
	RX eLq NE		22 13				
	Epicentre		22 36 53.9	34.1N	139.1E	33km	
30	WN eL	Z	14 30.5				
	Epicentre		13 35 28.7	41.8N	111.8W	37km	
30	SU iP	N	17 19 58 n				
	e(S) N		21 33				
	eLq N		44				
	M N		22				
	ON eP	E	17 22 00				
	eL E		27.5				
	M E		28				
	KP eP	Z	17 22 11				
	TU eP	Z	17 22 12				
	e Z		25 22				
	CT eP	Z	17 22 24				
	e Z		26 05				
	TA e Z		17 22 34				
	WN eP	ZNE	17 22 48				
	eS ZNE		26 32				
	eLq ZNE		27.5				
	eLr Z		29.3				
	M E		29				
	M N		30				
	M Z		31	8.1 16			
	CB eP	E	17 22 56				
	KM eP	X	17 23 14				
	GP eP	N	17 23 16				
	eS N		27 34				
	RX eP	Z	17 23 43				
	eLq NE		30.3				
	eLr Z		33.6				
	M ZNE		35				
	Epicentre		17 17 51.9	19 16	20 17	18 16	
				21.2S	174.4W	33km	
30	SU eL	N	09 02.0				
	M N		05				
	ON eP	E	09 04 53				
	WN eL	Z	09 12.2				
	M Z		14	1.7 24			
	RX eL NE		09 16.5				
	Epicentre		09 00 04.8	15.3S	177.2W	59km	
31	SU e(P) N		10 34.6				
	eL N		35.6				
	M N		36				
	ON eP	E	10 38 16				
	e(S) E		42 32				
	eL E		44.7				
	M E		45				
	TA e Z		10 44.3				
	RX eP	Z	10 39 56				
	eL E		47.9				
	eL N		49.4				
	M NE		50				
	eL Z		52.6				
	M Z		54	7.4 22	12 20		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
AUG	WN	eL	Z	10 44.3			
	M	Z	47	7.5 24			
Epicentre			10 33 30.2	15.4S	177.3W	60km	USCGS
31	TU	eP	Z	17 15 43			
CT	e?	Z	17 15 30				
	e?	Z	37				
SU	eP	Z	16 03				
	eS	N	17 22 55				
	e{PS}	N	23 25				
	eLr	N	35.2				
	M	N	40				
WN	e(SKS)Z		17 26 28		6.2 19		
	e{SP}Z		28 48				
	e{SS}Z		33 05				
	e(SKP)Z		36 05				
	eL	Z	45.3				
	M	Z	46				
	eLr	E	47.3				
	eLr	Z	48.3				
	M	ZE	49				
RX	e(SKS)N		17 26 54				
	e{PS}N		29 02				
	e{Lq}N		48.8				
	e{Lq}E		49.2				
	eLr	Z	50.5				
	M	E	53				
	M	N	55				
Epicentre			17 02 43.4	10 21	51.3N 179.7W 26km	USCGS	
31	WN	eL	Z	19 18			
SEP	1	KP	P	Z	03 58 58		
	WN	ePS	Z	04 11 28			
		eSS	Z	16 24			
	Lq	E	29				
	Lr	ZE	31				
RX	eL	NE	04 35				
SU	eS	N	04 05 35				
	eL	N	24				
Epicentre			03 46 05.0	10 21	51.3N 179.7W 25km	USCGS	6.1 PMS
1	KP	eP	Z	04 54 33			
Epicentre			04 41 41.5	10.3 u	51.3N 179.9W 37km	USCGS	
1	SU	P	N	04 54 35			
	S	N	56 42				
ON	eP	E	04 56 40				
	S	E	05 00 19				
KP	iP	Z	04 57 00				
	eS	Z	05 01 07				
	ScP	Z	03 55				
TA	eP	Z	04 57 09				
TU	P	Z	04 57 10.3 u				
	S	Z	05 01 13				
CT	eScP	Z	03 57				
	P	Z	04 57 10.5				
	eS	Z	05 01 11				
WN	P	Z	04 57 26				
	sP	Z	58 40				
	S	ZNE	05 01 37				
	eS	NE	02 26				
	(L)	ZNE	03.2				
RX	P	Z	04 58 01.9				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
			53				
EP	epP	Z	05 02 38				
	S	NE	04 18				
	e	N	07				
	eL	E	05 01 53				
	KM	eS	X	04 52 14.5	15.9S	168.2E 244km	USCGS
Epicentre							
	KP	P	Z	08 03 59.0 u			
	epP	Z	01 12				
	SU	eS	N	08 11 15			
	esP	Z	08 17 05				
	WN	e(SS)Z		25 48			
	e(S)Z		33.8				
	eL	Z	36.8				
	eL	Z	08 38				
	RX	eL	N	40			
	eL	E	07 51 08.2	51.3N	179.9W 42km	USCGS	
Epicentre							
	KP	ePKP	Z	19 40 02			
	PKP	Z	19 40 03				
	PP	Z	42 48				
	PKS	Z	13 40				
	SKS	E	47 13				
	e	Z	48 23				
	PG	ZE	52 57				
	PPG	ZE	54 58				
	SS	E	20 00 20				
	e	E	01 03				
	SSP	E	01 30				
	SSS	ZE	06 08				
	LQ	E	20.5				
	LR	ZE	26.6				
	SU	e(PKP)N		19 40 20			
	PKS	N	43 19				
	RX	PKS	ZNE	19 43 30			
	SKKS	E	49 32				
	e	N	50 52				
	SS	E	20 01 10				
	eL	E	13				
	M	NE	37				
Epicentre			19 20 38.5	35.6N	50.0E 21km	USCGS	
	2	TU	ePn	Z	20 17 21		
		i	Z	25			
		Sn	Z	51			
		i	Z	57			
	KP	Pn	Z	20 17 39			
	CT	Pn	Z	20 17 40.0			
	e	Z	18 35				
	TA	Pn	Z	20 17 54			
	i	Z	18 00				
	eSn	Z	53				
	WN	Pn	ZNE	20 17 55			
	e	E	18 03				5.9
	i	N	06				
	e	Z	18				
	Sn	ZNE	56				
	e	Z	19 02				
	ON	Pn	E	20 18 03			
	eS	E	19 12				5.2
	OB	eP	E	20 18 18			
	S	E	19 29				5.6
	GP	eP	N	20 18 35			
	e	N	39				6.0
	S	N	19 57				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
SEP	KM	e(P)	X 20 18 45				
		S	X 20 04				
RX	eP	Z	20 19 15				
	eS	Z	21 10				
	eL	NE	22				
Epicentre			20 16 42	38.6S 179.6W N NZ(B)			
2 TU	P	Z	22 40 09.8				
	e	Z	13				
	S	Z	45				
KP	P	Z	22 40 27				
CT	eP	Z	22 40 27				
i	Z		29				
i	Z		33				
	S	Z	41 22				
TA	eP	Z	22 40 42				
	e(S)	Z	41 52				
WN	e(P)	ZE	22 40 49				
	e	NE	52				
	S	ZNE	41 44				
ON	eP	E	22 40 51				
GP	e(P)	N	22 41 26				
	S	N	42 45				
RX	e(P)	Z	22 42 13				
	eS	Z	44 08				
CB	eS	E	22 42 17				
KM	eS	X	22 42 53				
Epicentre			22 39 23	38.6S 179.0W N NZ(C)			
4 TU	P	Z	08 32 15½				
	S	Z	33 13				
	e	Z	29				
ON	P	E	08 32 17				
KP	P	Z	08 32 18				
CT	P	Z	08 32 29				
	e	Z	40				
TA	eS	Z	33 42				
TA	eP	Z	08 32 38				
WN	S	ZNE	08 34 20				
GP	eS	N	08 35 24				
Epicentre			08 31 00	34.6S 179.6W N NZ(C)			
4 KP	P	Z	19 33 37				
CT	P	Z	19 33 47				
TU	P	Z	19 33 48				
Epicentre			19 28 37.0	15.5S 167.7E 133km	USCGS		
5 WN	eL	Z	08 58				
5 KP	P	Z	11 25 03				
	pP	Z	26				
CT	eP	Z	11 25 34				
	epP	Z	26 02				
Epicentre			11 17 06.7	3.3S 139.9E 110km	USCGS		
6 SU	eL	N	10 53				
WN	eL	ZNE	10 59½				
	eL	ZNE	11 05				
RX	eL	E	11 03				
Epicentre			10 49 00.7	21.2S 174.5W 110km	USCGS		
6 WN	eL	Z	11 37.2				
	eL	Z	40.6				
RX	eL	ZNE	11 40				
Epicentre			11 10 50.3	4.0S 126.4E 33km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
SEP 6 CT	eP	Z	18 07 30				
	eS	Z	09 06				
NN	eP?	NE	18 07 55				
	S	NE	10 49				
	S	Z	18 08 08				
KP	eP?	Z	17				
	e	Z	32				
	e	Z	47				
ON	eP	E	18 08 10				
TU	eP	Z	18 08 16				
	S	Z	09 41				
CB	eS	E	18 11 05				
KM	eS	X	18 11 45				
GP	eS	N	18 11 52				
Epicentre			18 06 22.9	31.8S 178.8W 81km	USCGS		
7 KP	P	Z	07 50 43				
	pP	Z	51 21				
CT	P	Z	07 50 46				
	pP	Z	51 25				
TU	eP	Z	07 50 53				
	epP	Z	51 34				
NN	eL	Z	08 17.2				
Epicentre			07 41 51.0	6.3S 130.0E 180km	USCGS		
7 ON	eP	E	23 39 18				
	S	E	40 35				
TU	eP	Z	23 39 29				
	i	Z	30½				
	eS	Z	40 52				
KP	eP	Z	23 39 29				
	i	Z	30				
	eS	Z	40 55				
TA	eP	Z	23 39 47				
NN	S	ZNE	23 41 49				
CB	eS	E	23 42 01				
GP	eS	N	23 42 48				
SU	eS	N	23 43 02				
	eL	N	40				
Epicentre			23 37 27.5	26.3S 178.0W 50km	USCGS		
8 SU	eP	N	07 28 56				
	S	N	30 34				
KP	eP	Z	07 30 48				
NN	eL	Z	07 36				
Epicentre			07 27 06.7	22.4S 171.5E 76km	USCGS		
9 KP	P	Z	01 45 45				
CT	eP	Z	01 45 48				
TU	P	Z	01 45 53				
Epicentre			01 34 38.5	10.3N 121.4E 58km	USCGS		
10 ON	P	E	15 47 15				
	S	E	49 55				
KP	P	Z	15 47 29				
	ScP	Z	54 10				
TU	P	Z	15 47 29				
	eS	Z	50 21				
	e	Z	31				
	ScP	Z	54 11				
	ScS	Z	57 52				
CT	P	Z	15 47 35				
	eS	Z	50 43				
	ScP	Z	54 11				
	ScS	Z	57 55				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
SEP							
	TA	e	Z 58 53				
		P	Z 15 47 42				
	ScP	Z	54 12				
	WN	iP	ZNE 15 47 56.8 d				
		sP	ZNE 50 30				
	S	ZNE	51 04½				
	ScP	ZNE	54 18				
	ScS	ZNE	58 01				
	sScS	NE	16 02 22				
	CB	eP	E 15 48 00				
	KM	eP	X 15 48 15				
	eS	X	51 38				
	RX	P	Z 15 48 14½				
	i	Z	49 39				
	S	NE	52 00				
	ScP	Z	54 33				
	eL	NE	55½				
	eScS	NE	58 22				
	Epicentre		15 43 59.4	21.1S	179.2W	640km	USCGS
10	ON	eP	E 17 54 04				
	KP	iP	Z 17 54 16 d				
	TU	eP	Z 17 54 17				
	CT	P	Z 17 54 24				
	TA	P	Z 17 54 33				
	e	Z	49				
	WN	eP	Z 17 54 51				
	eL	NB	18 01½				
	eL	Z	02½				
	RX	eL	E 18 05				
	eL	ZNE	08				
	Epicentre		17 49 16.1	17.5S	173.6W	33km	USCGS
10	TU	eP	Z 22 30 56				
	eS	Z	32 27				
	CT	P	Z 22 31 06½				
	S	Z	32 46				
	RX	P	Z 22 31 34				
	KP	e	Z 22 32 01				
	e	Z	51				
	WN	eS	NE 22 32 23				
	CB	eS	E 22 33 00				
	TA	eS	Z 22 33 05				
	Epicentre		22 28 58	44.8S	175.4W	N NZ(C)	5.1
11	ON	P	E 01 20 10				
	i	E	22				
	TU	eP	Z 01 20 10				
	e	Z	21 13				
	e	Z	32				
	KP	P	Z 01 20 13				
	i	Z	15				
	e	Z	23				
	CT	eP	Z 01 20 23				
	e	Z	33				
	e	Z	21 52				
	i	Z	22 10				
	WN	eP?	Z 01 21 11				
	S	NE	22 21				
	L	ZE	23.8				
	CB	eS	E 01 22 44				
	KM	eS	X 01 23 27				
	Epicentre		01 18 40	33.7S	178.7W	N NZ(D)	5.2
11	KP	eP	Z 02 29 44				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
SEP	NN	eL	Z 02 38.5				
	Epicentre		02 24 22.9	15.2S	173.4W	33km	USCGS
11	NN	eL	Z 19 55.5				
	Epicentre		19 46 21.5	22.4S	172.3E	33km	USCGS
12	NN	eL	Z 14 32				
	RX	eL	Z 14 33				
12	KP	eP	Z 18 26 41				
	CT	P	Z 18 26 51				
	e	Z	27 09				
	GP	eP	N 18 39				
	RX	eL	Z 18 39½				
	NN	eL	Z 44				
	M	Z	18 18 42.9	4.4S	145.4E	32km	USCGS
12	TU	PKP	Z 21 15 25				
	KP	PKP	Z 21 15 50				
		PKKP	Z 25 44				
	NN	ePP	Z 21 17 30				
	eSS	Z	34 53				
	e	ZN	39 12				
	eL	Z	55.5				
	M	Z	22 03				
	Epicentre		20 57 00.4	36.5N	69.2E	50km	USCGS
13	NN	eL	Z 05 15				
	Epicentre		05 02 22.8	21.3S	174.7W	33km	USCGS
13	TU	eP	Z 12 15 28				
	S	Z	16 02				
	CT	P	Z 12 15 46				
	e	Z	56				
	S	Z	16 37				
	NN	eP?	Z 12 16 00				
	S	ZNE	17 02				
	TA	e(P)	Z 12 16 03				
	e	Z	35				
	e	Z	17 09				
	CB	S	E 12 17 34				4.8
	GP	eS	N 12 18 04				5.0
	KM	eS	X 12 18 10				5.0
	Epicentre		12 14 42	38.9S	179.0W	N NZ(D)	5.0
13	CT	iP	Z 15 33 37.2				
	S	Z	34 18				
	TA	iP	Z 15 33 57.5 u				
	eS	Z	34 19				
	KP	iP	Z 15 34 00.0 u				
	iS	Z	23½				
	TU	iP	Z 15 34 04.8				
	i	Z	25½				
	S	Z	30				
	WK	e(P)	Z 15 34 07				
	eS	Z	23				
	NN	P	ZNE 15 34 11.2 u				
	S	ZNE	42½				
	CB	P	E 15 34 15½				
	S	E	50½				
	KM	eP	X 15 34 38				
	S	X	35 26				
	GP	P	N 15 34 42				
	S	N	35 38				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
SEP	RX	eS	Z 15 36 38				
	Epicentre		Z 15 33 28	39.0S 175.0E 215km NZ(B)			
				Felt: Wanganui MM3			5.2
14	TU	eP	Z 15 57 24				
	CT	P	Z 15 57 31				
	i	Z	Z 15 57 39				
	TA	eP	Z 15 57 40				
	WN	eL	Z 16 04				
	Epicentre		Z 15 52 41.2	17.9S 176.5E 33km	USCGS		
14	TU	eS	Z 17 27 57				
	CT	eS	Z 17 28 25				
	WN	eS	ZNE 17 29 05				
	CB	eS	E 17 29 18				
	GP	eS	N 17 30 05				
	Epicentre		Z 17 23 13.4	26.6S 178.5W 449km	USCGS		
14	ON	P	E 18 21 36				
	KP	P	Z 18 21 50				
	i	Z	Z 18 22 51				
	TU	P	Z 18 21 54				
	eS	Z	Z 18 21 58				
	e	Z	Z 18 22 41				
	CT	eP	Z 18 22 00				
	i	Z	Z 18 22 02½ u				
	S	Z	Z 18 22 25 32				
	ScP	Z	Z 18 22 29 00				
	TA	P	Z 18 22 07				
	e	Z	Z 18 22 23 07				
	WN	P	ZNE 18 22 22 d				
	eS	ZNE	ZNE 18 22 26 02				
	KM	eP	X 18 22 43				
	GP.	eP	N 18 22 49				
	Epicentre		Z 18 17 52.1	19.9S 177.6W 350km	USCGS		
15	TU	P	Z 19 07 17				
	eS	Z	Z 19 08 17				
	CT	eP	Z 19 07 32				
	eS	Z	Z 19 08 50				
	TA	eP?	Z 19 07 44				
	WN	eS	NE 19 09 26				
	GP	eS	N 19 10 32				
	Epicentre		Z 19 05 51	35S 178W N NZ(D)	USCGS	5.2	
				Charters Towers readings used to determine epicentre		5.2	
15	KP	eP	Z 23 03 34				
	CT	eP	Z 23 03 37				
	TU	eP	Z 23 03 38				
	TA	eP	Z 23 03 38				
	WN	eP	Z 23 03 46				
	PP	Z	Z 23 07 20				
	e(S)	Z	Z 23 14 42				
	e	ZN	ZN 23 16 28				
	SS	ZN	ZN 23 20 27				
	Lr	ZNE	ZNE 23 34 4				
	RX	e(S)	NE 23 15 4				
	ePS	N	N 23 16 38				
	eSS	NE	NE 23 22 0				
	eL	E	E 23 31				
	Epicentre		Z 22 50 46.3	48.5N 156.8E 33km	USCGS	6 PAS	
17	KP	eP	Z 05 03 54				
	Epicentre		Z 04 59 51.5	17.7S 178.6W 576km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
SEP 17 ON	P	E	Z 17 59 03				
	e	E	Z 18 00 56				
	s	E	Z 18 01 46				
	KP	IP	Z 17 59 16.8 u				
	i	Z	Z 18 00 50				
	es	Z	Z 18 02 12				
	TA	eP	Z 17 59 19				
	e	Z	Z 18 02 11				
	es	Z	Z 17 59 25				
	CT	eP	Z 18 02 30				
	es	Z	Z 18 05 58				
	ScP	Z	Z 17 59 31				
	TA	P	Z 18 00 50				
	e	Z	Z 18 01 07				
	WN	IP	ZNE 17 59 44.7 d				
	i	Z	Z 18 02 22				
	SP	ZNE	ZNE 18 03 06				
	S	ZNE	ZNE 18 09 49				
	ScS	NE	NE 18 00 09				
	GP	P	N 18 04 00				
	eS	Z	Z 18 02 09				
	Epicentre		Z 17 55 45.4	21.0S 179W 601km	USCGS		
18	WN	PP	Z 00 47 32				
		SKS	E 53 50				
		PS	Z 56 30				
		SS	ZNE 01 02 27				
		Lr	Z 18 0				
		ePP	Z 00 47 32				
		RX	esKS E 00 54 10				
		e	N 55 44				
		PS	E 57 38				
		PPS	E 58 18				
		SS	NE 01 03 20				
		EL	ZNE 20				
		Epicentre	00 29 05.2	7.5N 82.3W 33km	USCGS	7 PAS	
18	KP	P	Z 06 20 33				
	CT	eP	Z 06 20 37				
	TU	P	Z 06 20 41				
	WN	el	ZNE 06 36.1				
	Epicentre		Z 06 10 26.3	2.3N 126.9E 33km	USCGS		
18	ON	eP	E 20 15 35				
	KP	P	Z 20 15 50				
	TA	eP	Z 20 16 04				
	CT	P	Z 20 16 05				
	TU	P	Z 20 16 05				
	es	Z	Z 20 19 45				
	WN	P	Z 20 16 25½				
	S	ZNE	ZNE 20 12				
	L	XWE	Z 21.5				
	Epicentre		Z 20 11 47.5	21.0S 169.9E 81km	USCGS		
18	ON	eP	E 21 51 40				
	KP	eP	Z 21 51 52				
	e	Z	Z 22 52 15				
	WN	el	Z 21 59.5				
	L	ZNE	ZNE 22 00.2				
	RX	el	ZNE 22 04				
	Epicentre		Z 21 47 30.9	14.8S 178.1W 526km	USCGS		
19	KP	P	Z 00 19 05				
	TU	eP	Z 00 19 10				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
SEP	Epicentre		00 06 58.7	42.0N 132.9E 436km			
19	KP	P	01 35 33				
	pP	Z	48				
	Epicentre		01 22 35.5	52.3N 173.4W 33km			
19	KP	P	05 19 48				
	Epicentre		05 07 39.1	48.1N 145.1E 466km			
19	KP	eP	Z				
	e	Z	07 58 37				
	TU	eP	Z	43			
	e	Z	07 58 46				
	WN	eP	Z	52			
	eL	Z	07 58 56				
	Epicentre		08 19				
			07 48 35.2	11.5N 141.0E 61km			
20	CT	eP	Z	06 28 29			
	KP	P	Z	06 28 30			
	Epicentre		06 16 30.4	30.3N 132.3E 59km			
20	KP	eP	Z	16 46 54			
	CT	eP	Z	16 46 54			
	WN	eL	ZNE	17 05.5			
	Epicentre		16 38 24.6	4.7S 139.4E 33km			
21	ON	eP	E	08 47 28			
	KP	P	Z	08 47 40			
	CT	eP	Z	08 47 49			
	eS	Z		50 49			
	TU	eS	Z	08 50 32			
	Epicentre		08 44 11.0	21.2S 179.0W 624km			
21	ON	eP	E	14 58 44			
	KP	P	Z	14 58 55			
	i	Z		59 02			
	e	Z		15 00 15			
	CT	eP	Z	14 59 04			
	TA	eP	Z	14 59 10			
	WN	P	Z	14 59 24			
	Epicentre		14 54 51.0	17.7S 178.7W 536km			
21	CT	eP	Z	22 50 05			
	KP	eP	Z	22 50 10			
	Epicentre		22 38 51.7	57.7S 64.1W 51km			
22	WN	eSS	ZNE	07 23.4			
	eLq	N		33			
	eLr	Z		39			
	RX	eL	E	07 36			
	Epicentre		06 51 32.3	26.5N 97.0E 33km			
22	TU	eP*	Z	15 08 41½			
	i	Z		44			
	Sn	Z		09 00			
	eS*	Z		08			
	KP	iP*	Z	15 08 46.6 d			
	eS*	Z		09 19			
	WK	eP*	Z	15 08 48			
	e(S*)	Z		09 25			
	CT	P*	Z	15 08 56½ u			
	ON	P*	E	15 09 00 e			
	e(S)	E		37			
	iS*	E		42			
	TA	(P)	Z	15 09 07½ d			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
SEP		iP*	Z	09			
		eSn	Z	50			
		eP	ZNE	15 09 20			6.0
		i	Z	21½			
		e	ZNE	25			
		e	N	32			
		i	E	09 37			
		Sn	NE	10 16			
		S	Z	19			
		e	ZNE	40			
		(Scs)E		23 28			
	CB	eP?	E	15 09 36			
		Sn	E	10 40			5.6
	GP	ePn	N	15 09 59			
		i	N	11 20			
		iSn	N	25			
	RM	e(P)	X	15 10 04			6.3
		Sn	X	11 18			5.7
	RX	e(P)	Z	15 10 48			
		Sn	Z	12 30			
		eL	ZNE	14½			
		Epicentre		15 08 04	36.9S 178.1E S NZ(B)		5.8 NZ
23	KP	eP	Z	07 02 56			
	CT	eP	Z	07 03 06			
	eS	Z		05 56			
	TA	eP	Z	07 03 12			
	WN	eP	Z	07 03 26			
	eS	ZE		06 25			
	Epicentre			06 59 49.9	23.7S 179.9E 549km		USCGS
24	KP	P	Z	05 39 15			
	TU	eP	Z	05 39 25			
	CT	eP	Z	05 39 28			
	e	Z		43			
	WN	eL	Z	06 01.5			
	Epicentre			05 28 26.5	9.2N 126.6E 33km		USCGS
24	KP	eP	Z	14 51 05			
	SU	eL	N	15 10			
	WN	eL	ZE	15 19½			
	RX	eL	NE	15 22			
	Epicentre			14 38 21.7	42.8N 145.3E 33km		USCGS
25	WN	P	Z	00 28 56			
	PP	Z		30 35			
	PcS	ZNE		34 43			
	S	ZNE		35 18			
	SS	ZNE		38 16			
	Lg	NE		40 18			
	eLr	ZNE		42.2			
	TU	eP	Z	00 28 57			
	KP	eP	Z	00 29 11			
	RX	S	NE	00 35 24			
	SU	eSS	N	00 45 12			
	eL	V		47.2			
	Epicentre			00 21 14.6	55.6S 124.3W 67km		USCGS
25	KP	eP	Z	07 33 45			
	WN	eL	Z	07 40			
	Epicentre			07 30 09.3	24.0S 176.6W 33km		USCGS
25	CT	eP	Z	15 00 00			
	WN	eL	Z	15 20			
	Epicentre			14 49 46.9	11.7N 138.6E 33km		USCGS

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Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag
SEP 26	SU	eP	N	12	47	11			
		eL	N	12	47	19.7			
ON	eP	E	12	47	39				
	eS	E	51	28					
TU	eP	Z	12	47	43				
	eS	Z	49	54					
CT	eP	Z	12	47	57				
	eS	Z	50	42					
KP	eP	Z	12	47	58				
TA	eP	Z	12	48	07				
WN	P	ZNE	12	48	26				
	S	ZNE	51	03					
	L	ZNE	51	06					
GP	eP	N	12	49	02				
	eS	N	52	09					
RX	eLq	E	12	55					
	eLr	ZN	58	4					
Epicentre			12	44	48.9	27.5S 176.4W 33km	USCGS		
27	TU	eP	Z	00	55	40			
	e	Z	56	24					
	e	Z	35						
KP	P	Z	00	55	46				
	eS	Z	56	41					
TA	e	Z	00	55	49				
	eP	Z	56	08					
	e	Z	26						
	e	Z	37						
ON	eP	E	00	55	53				
	e	E	56	04		4.3			
CT	eP	Z	00	55	56				
	e	Z	57	02					
WN	S	NE	00	57	44				
	i	NE	58	29		5.1			
CB	eS	E	00	58	05				
	e	E	51			4.9			
GP	eS	N	00	58	50				
	e	N	59	34		5.0			
Epicentre			00	54	34	35.7S 179.1W N NZ(C)	5.0 NZ		
						Charters Towers, Kajaani, Nurmijärvi	readings used to determine epicentre		
27	CT	P	Z	13	07	31			
	pP	Z		08	03				
Epicentre			12	56	18.6	4.6S 104.4E 144km	USCGS		
27	ON	eP	E	13	28	58			
KP	P	Z	13	29	13				
TU	eP	Z	13	29	15				
	eS	Z	32	37					
CT	eP	Z	13	29	20				
TA	eP	Z	13	29	25				
WN	P	Z	13	29	41				
	eS	Z	32	19					
RX	P	Z	13	30	28				
Epicentre			13	25	05.6	17.6S 178.9W 507km	USCGS		
27	TU	P*	Z	14	40	51			
	es*	Z		41	10				
WK	Pn	Z	14	40	52				
	e	Z		58					
	es*	Z		41	12				
KP	iP	Z	14	40	53.1				
	es*	Z		41	11				
CT	iPn	Z	14	41	01.3 d				

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Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag
	TA	iPn	Z	14	41	11.3 d			
	eSn	Z			45.2				3.8
ON	eP*	E	14	41	16				
	S*	E			50				
WN	Pn	ZNE	14	41	26				5.5
	P*	ZNE			35				
	Sn	ZNE			42.11				
	S*	ZNE			28				
CB	P	E	14	41	36				5.4
	s	E			50				
	S	X	14	42	03				5.4
KN	eP	X			14				
	s	X			43.09				
GP	eP	M	14	42	03				5.8
	e	N			11				
	S	N			43.15				
RX	eP	Z	14	42	32.1				
	es	Z			44.21				
Epicentre			14	40	25	37.4S 177.4E S NZ(C)	5.5 NZ		
						Canberra, Charters Towers readings	used to determine epicentre		
27	CT	eP	Z	18	34	37			
WN	eL	ZNE	18	44	.6				
RX	eL	NE	18	48	.2				
Epicentre			18	26	52.5	4.0S 151.2E 51km	USCGS		
28	KP	eP	Z	02	20	29			
	e	Z			41				
CT	eP	Z	02	20	41				
Epicentre			02	15	32.6	16.7S 167.5E 50km	USCGS		
28	WN	eL	Z	19	46	.4			
29	RX	P	Z	14	31	46			
	i	Z			47				
	eS	Z			32.41				
	e(L)	NE			33.0				
GP	eP	N	14	32	25				5.0
	eS	N			33.48				
	e	N			34.03				
CB	eP	E	14	32	55				
	eS	E			34.39				5.2
CT	eP	Z	14	33	33				
KN	eS	X	14	34	02				
Epicentre			14	30	35	49.0S 165.0E N NZ(C)	4.7		
						Canberra, Toolangi, Port Vila and	5.0 NZ		
						Charters Towers readings used to	determine epicentre		
29	CT	P	Z	15	30	07			
	pP	Z			39.09				
	ePKKP	Z			39.49				
KP	P	Z	15	30	06				
	pP	Z			32.14				
TA	eP	Z	15	30	11				
	ePP	Z			32.13				
WN	pP	Z	15	32	05				

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Date	Stn	Phase	h	m	s	Az Tz	An Th	Ae Te	
SEP	SKS	ZNE	39	42					
	SP	ZNE	41	38					
	SKKP	ZE	50	20					
RX	e	E	15	33	05				
	eSKS	NE	39	40					
	eSP	E	41	40					
	eSS	N	46	58					
	Epicentre		15	17	47.7	27.0S	63.6W	575km	
								USCGS	
30 KP	P	Z	10	55	35				
	i	Z		41					
	PcP	Z	57	46					
	e	Z		58					
WN	eP	Z	10	56	01				
	eS	Z	11	02	02				
	eSS	ZE	05	24					
	eL	ZN		08	.2				
SU	eL	N	11	01					
RX	eL	ZNE	11	10					
	Epicentre		10	48	10.3	5.2S	152.7E	33km	
								USCGS	
30 KP	P	Z	11	05	59				
	ePcP	Z		08	10				
	Epicentre		10	58	37.0	5.9S	151.0E	50km	
								USCGS	
30 KP	iP	Z	11	21	21.8 u				
	S	Z		40					
WK	e(P)	Z	11	21	23				
	S	Z		37					
TU	iP	Z	11	21	25.7 d				
	S	Z		46					
TA	iP	Z	11	21	27.0 u				
WN	iP	ZNE	11	21	42.5 use				
	S	ZNE		22	18				
CB	eP	E	11	21	50				
	iS	E		22	30				
ON	e	E	11	21	53				
	eS	E		22	24				
KM	eP	X	11	22	16				
	S	X		23	07				
GP	eP	N	11	22	16				
	i	N		23	15				
	iS	N		18					
RX	S	Z	11	24	20				
	Epicentre			11	20	56	38.6S	175.9E	175km
								USCGS	
30 KP	P	Z	22	09	10				
CT	P	Z	22	09	14				
TU	eP	Z	22	09	18				
WN	eL	Z	22	34	6				
	Epicentre		21	57	24.8	18.6N	120.9E	51km	
								USCGS	
OCT 1	ON	eP	E	04	00	44			
	eS	E		05	/59				
KP	eP	Z	04	00	58				
	e(pP)	Z		02	17				
	e(S)	Z		04	22				
TU	eP	Z	04	01	01				
	eS	Z		04	17				
	ePcP?	Z			35				
CT	e?	Z	04	01	08				
TA	eP	Z	04	01	12				
WN	eP	ZNE	04	01	26				
	eS	ZNE		05	06				
CB	eP	E	04	01	30				

NEW ZEALAND STATIONS AND SUVA 1962

Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag		
20T 1	es	E	05	11							
KM	eP	X	04	01	44						
es	X		05	37							
GP	ep	N	04	01	50						
e?	N		02	17							
es	N		05	49							
RX	ep	Z	04	02	13						
e	E		09	20							
Epicentre			03	56	52.0	17.5S	178.9W	550km	USCGS		
1 KP	ep	Z	10	06	09						
TU	ep	Z	10	06	12						
TA	ep	Z	10	06	13½						
WW	ep	Z	10	06	21						
KM	ep?	X	09	06	29						
Epicentre			09	53	32.9	47.3N	151.5E	127km	USCGS		
1 KP	ep	Z	10	01	52						
TA	ep	Z	10	02	08						
TU	ep	Z	10	02	09						
GT	ep	Z	10	02	10						
WW	ep	Z	10	02	22						
epP	ZNE		28								
e?	Z		04	12							
es	ZNE		06	44							
e(Lq)	ZN		08.4								
eLr	ZE		09.9								
M	ZE		10								
M	Z		11								
CB	eP	E	10	02	23						
GP	eP	N	10	02	44						
RX	eLq	NE	10	07	.7						
M	NE		11			2.9	21	4.5	22		
eLr	Z		12.5								
M	Z		14								
Epicentre			09	57	02.2	3.7	14	17.5S	167.1E	33km	USCGS
1 WW	ePKP	Z	12	33	08						
KP	ePKP	Z	12	33	08						
e?	Z		19								
eSKP	Z		36	31							
Epicentre			12	13	57.4	27.9N	54.9E	16km	USCGS		
1 WW	e?	Z	13	17	22						
e(L)	Z		25.3								
1 KP	eP	Z	15	14	43½						
	ePcP	Z		16	55						
TU	eP	Z	15	14	56						
WW	eL	E	15	25	.2						
	eL	Z		26	.6						
M	Z		29								
M	E		31								
RX	eLq	NE	15	30	.2						
eLr	Z		35.4								
Epicentre			15	07	22.1	5.5S	151.9E	49km	USCGS		
1 KP	eP	Z	20	47	02						
	e	Z		44							
TU	eP	Z	20	47	03						
	e	Z		50	39						
TA	eP	Z	20	47	44						
WW	ep	ZNE	20	47	19						
	e	ZNE		33							
				39							

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
OCT	e	NE	44				
	e	Z	47				
	e	N	52				
eS	ZNE	51 42					
eL	ZNE	55					
M	Z	58					
CB	eP	E	20 47 44				
KM	eP	X	20 48 01				
e	X	09					
RX	eP	Z	20 48 31				
eL	E	56.6					
eL	N	58.1					
Epicentre			20 42 36.5	19.6S 174.5W 143km	USCGS		
3 TU	eP?	Z	17 18 10				5.8
RX	eP	Z	17 19 02				
eL	NE	26					
WN	eLr	Z	17 23.7				
M	Z	28					
Epicentre			17 13 41.5	21.0S 168.4E 33km	USCGS		6.4
3 TU	eP?	Z	19 01 14				
KP	eP	Z	19 01 18				
epP	Z	33 $\frac{1}{2}$					
Epicentre			18 48 52.4	57.4S 26.7W 33km	USCGS		6.45
4 KP	eP	Z	09 40 59				
TU	eP	Z	09 41 01				
eS	Z	43 47					
CT	eP	Z	09 41 08				
TA	eP	Z	09 41 12				
WN	eP	ZNE	09 41 27				
KM	eP?	X	09 41 54				
GP	eP	N	09 41 57				
Epicentre			09 37 53.0	23.3S 179.0E 611km	USCGS		6.3
4 WN	eLr	Z	20 54.7				
M	Z	56					
Epicentre			20 34 38.7	5.1S 151.9E 33km	USCGS		
5 WN	e	Z	07 27.9				
5 WN	e?	Z	13 49.2				
e	Z	50 20					
5 WN	e(L)	Z	15 54.5				
6 ON	eP	E	04 27 58				
eS	E	31 32					
eLq	E	32 45					
M	E	33					
KP	eP	Z	04 28 13				
eLr	Z	35 $\frac{1}{2}$					
M	Z	36					
TA	eP	Z	04 28 (25)				
TU	eP?	Z	04 29 26 $\frac{1}{2}$				
eP	Z	28					
eS	Z	32 37					
CT	eP	Z	04 28 27				
WK	eP	Z	04 28 29				
CB	eP	E	04 28 42				
eS	E	33 02					
eL	E	36 3					
M	E	38					
WN	eP	ZNE	04 28 43				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
OCT	e	Z	29 32				
eS	ZNE	33 14					
eLq	ZNE	34 43					
M	E	36					
M	ZN	39					
EM	X	04 28 53					
eP	X	33 42					
eS	X	37.2					
eL	X	39					
M	X	39					
GP	N	04 29 02					
e(S)	N	34 30					
eL	N	35.6					
M	N	40					
RX	eP	N	04 29 15				
e	ZE	22					
e	E	30 01					
s	N	31 57					
e(PoP)	E	32 38					
eS	NE	34 02					
e	Z	35 15					
e(SS)	N	35 29					
eLq	E	37					
M	E	37					
e(Lr)	Z	37 50					
M	N	38					
M	Z	38					
Epicentre		04 23 24.1	53 22	17.4S 167.7E 33km	USCGS		
6 KP	eP	Z	04 39 51				
TU	eP	Z	04 40 05				
CT	eP	Z	04 40 05 $\frac{1}{2}$				
GP	eP	N	04 40 39				
KM	e?	X	04 41 10				
Epicentre		04 35 02.5	17.4S 167.8E 33km	USCGS			
6 KP	eP	Z	05 50 30				
CT	eP?	Z	05 50 34				
TU	eP	Z	05 50 35				
Epicentre		05 38 40.3	26.2N 126.9E 122km	USCGS			
6 ON	eP	E	07 21 36				
KP	eP	Z	07 21 52				
TU	eP	Z	07 22 06				
CT	eP	Z	07 22 07				
GP	eP	N	07 22 36				
WN	e(S)	Z	07 26 52				
eL	Z	29.0					
M	Z	30					
RX	e(S)	NE	07 28.0				
e(Lq)	NE	29.2					
e	Z	32					
eLr	Z	32.6					
Epicentre		07 17 03.3	17.4S 167.8E 33km	USCGS			
6 ON	eP	E	08 00 59				
KP	eP	Z	08 01 22				
TU	eP	Z	08 01 24				
CT	eP	Z	08 01 26				
TA	eP?	Z	08 01 35				
WN	eP	Z	08 01 44				
eS	Z	08 01 44					
eL	Z	08.0					
M	Z	08.0					
RX	eP	N	08 01 59				
e	Z	08 06 58					

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
OCT	e	N	07 08				
	eLq	E	08.5				
	eLq	N	09.3				
	M	NE	11				
	eLr	Z	11.5	6.2 23	8.6 21		
	M	Z	14				
	Epicentre		07 56 20.4	5.8 14	17.4S 167.9E 33km		5.8
6	ON	eP	E	08 08 06			
	eLq	E	12 37				
	M	E	14				
	KP	eP	Z	08 08 22			
	TU	eP	Z	08 08 33			
	TA	eP	Z	08 08 36			
	CT	eP	Z	08 08 37			
	WN	eP	ZNE	08 08 56			
	eL	Z	15.7				
	GP	eP	N	08 09 10			
	RX	eL	E	16.2			
	eL	ZN	17.6				
	Epicentre		08 03 31.7		17.2S 168.0E 33km		USCGS
6	KP	eP	Z	08 36 40			
	TU	eP	Z	08 36 51			
	CT	eP	Z	08 36 55			
	GP	eP	N	08 37 43			
	Epicentre		08 31 50.1		17.3S 167.8E 33km		USCGS
6	ON	eP	E	11 06 47			
	KP	iP	Z	11 06 06 u			
	eScP	Z	12 53				
	WK	eP	Z	11 06 14			
	TU	eP	Z	11 06 15			
	eS	Z	10 35				
	eScP	Z	12 55				
	TA	eP	Z	11 06 15			
	eScP	Z	12 55				
	CT	iP	Z	11 06 17 u			
	eScP	Z	12 55				
	WN	iP	ZNE	11 06 31			
	e?	N	07 03				
	e	Z	08 26				
	eS	Z	11 10				
	eL	ZE	12.2				
	eScP	Z	13 00½				
	M	E	14				
	M	Z	15				
	CB	eP	E	11 06 31			
	eScP	E	13 01				
	KM	eP	X	11 06 39			
	eScP	X	13 01				
	GP	iP	N	11 06 50			
	e(PcP)	N	09 49				
	eScP	N	13 08				
	RX	eP	Z	11 07 03			
	e?	E	12 00				
	eLq	E	14.4				
	M	E	17				
	Epicentre		11 00 52.8		13.3S 167.3E 209km	5.5 20	USCGS 5.6
6	KP	eP	Z	12 04 35½			
	TU	eP	Z	12 04 47			
	CT	eP	Z	12 04 53			
	GP	eP	N	12 05 33			
	WN	e(Lq)	Z	12 10.1			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
OCT		eLr	ZE	12.0			
	M	ZE	13				
	RX	eL	N	12 10.6			
	eL	E	12.3				
	M	E	13				
	Epicentre		11 59 42.3		17.4S 167.8E 17km	3.2 24	USCGS
6	ON	eP	E	18 05 36			
	KP	eP	Z	18 05 53½ d			
	TU	eP	Z	18 06 07			
	CT	eP	Z	18 06 08			
	WN	eP?	Z	18 06 19			
	e	Z	11.7				
	eLr	Z	13.1				
	M	Z	15				
	GP	eP	N	18 06 51			
	RX	eL	N	18 12.2			
	eL	E	13.9				
	M	E	15				
	M	N	16				
	Epicentre		18 01 05.4		17.6S 168.0E 33km	2.2 18	USCGS 5.5
6	ON	eP	E	23 35 51			
	eS	E	39 37				
	eL	E	40 45				
	M	E	42				
	KP	eP	Z	23 36 14			
	TA	eP	Z	23 36 (26)			
	CT	eP	Z	23 36 26			
	TU	eP	Z	23 36 27			
	WN	eS	Z	23 36 30			
	WN	eP	ZNE	23 36 43			
	e	N	37 20				
	e(PP)	Z	34				
	e	Z	40 36				
	e	N	50				
	eS	E	41 02				
	e	N	44				
	e	Z	27				
	e(Lq)	E	42.0				
	eLr	ZNE	43.5				
	M	ZNE	44				
	CB	eP	E	23 36 43			
	eS	E	40 56				
	KM	eP	X	23 36 52			
	GP	eP	N	23 37 01			
	RX	eP	Z	23 37 15			
	eLq	NE	42.0				
	eLr	Z	45.5				
	M	NE	46				
	M	Z	46				
	Epicentre		23 31 27.7		14 21	15 22	25 21
7	KP	eP	Z	00 51 45			
	RX	eL	N	00 59.5			
	eL	E	01 01.5				
	M	NE	03				
	WN	eL	ZNE	01 01.2			
	M	ZNE	02				
	Epicentre		00 46 55.4		17.7S 167.8E 33km		USCGS
7	KP	eP	Z	00 53 50			
	e	Z	54				
	e	Z	54				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag			
OCT	e(S)	Z	55 53							
	CT	eP	Z 00 54 06							
	e(S)	Z	56 10							
	GP	eP?	N 00 54 38							
7	KP	eP	Z 05 52 24							
	TU	eP	Z 05 52 38							
	Epicentre		05 47 33.0	17.5S	168.0E	17km	USCGS			
7	TU	eP	Z 16 12 38							
	e	Z	17 23							
	TA	eP	Z 16 12 40							
	KP	eP	Z 16 12 42							
	Epicentre		16 00 20.2	57.8S	25.5W	33km	USCGS			
7	KP	eP	Z 16 52 08							
	CT	eP?	Z 16 52 11							
	TU	eP	Z 16 52 21							
	WN	eL	Z 16 59.1							
	M	Z	17 02							
	RX	eLq	E 16 59.5							
	eLr	N	17 02.8							
	M	NE	05							
	Epicentre		16 47 22.7	1.25 15	1.7 13	17.7S	167.5E	33km	USCGS	5.3
7	TU	eP	Z 16 57 18							
	Epicentre		16 52 19.4	17.9S	167.4E	39km	USCGS			
8	SU	eL	N 13 24							
	WN	eL	Z 13 32.6							
	M	Z	34							
	RX	eL	E 13 33.5							
	eL	N	36							
	M	N	38							
	Epicentre		13 20 32.7	2.5 13	17.8S	167.8E	33km	USCGS		
8	SU	eP	N 22 08 15							
	e(PP)	N	10 45							
	e(PPP)N		12 30							
	e	N	16 07							
	eS	N	17 30							
	e	N	21 20							
	eL	N	30							
	M	N	30							
	KP	eP	Z 22 08 31							
	ePP	Z	11 11							
	CT	eP	Z 22 08 35							
	TU	eP	Z 22 08 37							
	WN	eP	Z 22 08 38							
	e	Z	18 12							
	eS	Z	50							
	eSP	Z	19 46							
	eSS	Z	24 25							
	eLq	Z	31 28							
	eLr	Z	35.0							
	M	Z	35							
	TA	eP	Z 22 08 41½							
	RX	e(S)	E 22 18 51							
	e	N	19 04							
	e{SS}	NE	24 34							
	e(Lq)	NE	30.8							
	Epicentre		21 56 22.2	5.7 22	7.6 28	24.3N	121.7E	29km	USCGS	6 PAS
9	SU	e(S)	N 03 18.4							
	eL	N	19.8							

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag	
OCT		M	N 22					
	KP	eP	Z 03 18 35					
	RX	eL	E 03 27.3					
		eL	N 31.0					
	WN	eL	Z 03 27 40					
	M	Z	29					
	Epicentre		03 13 44.8	17.4S	167.6E	33km	USCGS	
9	SU	e?	N 20 22 15					
		e	N 23 04					
		eS	N 26 32					
		eL	N 28.7					
		M	N 30					
	KP	eP	X 20 22 33					
	CT	eP	Z 20 22 43					
	TU	eP	Z 20 22 46					
	GP	eP	N 20 23 01					
	RX	e	E 20 24.7					
		e	ZN 25 08					
		eS	ZNE 29 46				6.3	
		eLq	NE 35.3					
		eLr	ZNE 36.5					
		M	ZNE 40					
	WN	eS	ZE 20 23 28 uw	12 21	26 18	26 18	6.4	
		e	E 30 51					
		e	Z 31 50					
		e	ZE 32 56					
		eLq	Z 34.0					
		eLr	Z 35.7					
		M	Z 36					
	Epicentre		20 14 38.3	3.2S	148.2E	33km	USCGS	6 1 PAS
9	KP	eP	Z 21 24 10					
	Epicentre		21 19 19.0	17.6S	167.6E	19km	USCGS	
10	ON	eP	E 16 27 36				4.97	
	TU	eP	Z 16 27 37					
		eS	Z 28 36					
	KP	eP	Z 16 27 41					
	CT	eP	Z 16 27 50					
		e(S)	Z 29 02					
	WN	eP	ZNE 16 28 14					
		eS	ZNE 29 39					
	GP	eP	N 16 28 53					
		e	N 30 40					
		eS	N 45					
	CB	eS	E 16 29 56					
	KM	eS	X 16 30 36					
	Epicentre		16 26 22	34.6S	179.8W	200km NZ(D)		
						Charters Towers reading used to determine epicentre.		
10	SU	eL	N 21 5(6) 23					
	TU	eP	Z 21 57 55					
	KP	eP	Z 21 57 57					
	WN	eP?	Z 21 58 14					
		e(p)	Z 28					
		eL	ZE 22 05.2					
		eL	N 07.6					
		M	ZNE 0					
	GP	eP	N 21 58 56					
	RX	eL	E 22 08					
		eL	N 09					
		eL	Z 10					
		M	NE 10					
		Z	12					
				5.8 16	3.8 22	3.1 23	5.6	

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
OCT	Epicentre		21 52 36.8	15.1S 173.3W 33km			USCGS
12	ON eP	E	01 46 37				
	KP eP	Z	01 46 37				
	CT eP	Z	01 46 45				
	eS	Z	48 15				
	WN eS	NE	01 48 49				
	eL	ZNE	50				
	M	Z	51				
	CB eS	E	01 49 10				
	GP eS	N	01 49 54				
	SU eL	N	01 52				
	RX eL	NE	01 53				
	eL	Z	54				
	M	NE	54				
	Epicentre		01 44 49.4	33.1S 178.2W 37km NZ(D)			
				Canberra, Charters Towers readings used			
				to determine epicentre			
				5.3 M			
12	CT eP	Z	20 42 48				
	e	Z	44 22				
	WN eS	NE	20 45 00				
	CB eS	E	20 45 13				
	KM eS	X	20 45 48				
	GP eS	N	20 46 02				
	Epicentre		20 38 58.0	27.2S 178.0W 152km			USCGS
13	KP eP	Z	07 38 44				
	TU eP	Z	07 38 58				
	CT eP	Z	07 38 58				
	SU e(L)	N	07 42 50				
	WN eL	Z	07 48.2				
	Epicentre		07 33 48.8	16.7S 167.9E 33km			USCGS
13	KP iP	Z	08 29 00.0 d				
	e(S)	Z	19				
	WK eP	Z	08 29 01				
	TU eP	Z	08 29 04 d				
	e	Z	26				
	CT iP	Z	08 29 04.8 u				
	ON eP	E	08 29 20				
	e	E	37				
	eS	E	55				
	e	E	30 21				
	WN eP	NE	08 29 25				
	eS	NE	30 05				
	CB eP	E	08 29 32				
	eS	E	30 19				
	KM eP	X	08 29 58				
	eS	X	30 56				
	GP eP	N	08 29 59				
	eS	N	31 07				
	RX eP	Z	08 30 36				
	eS	Z	32 08				
	Epicentre		08 28 35	38.3S 175.9E 185km NZ(c)			
				Felt: Te Uri, Kotemaori MM3			
				5.4 M			
13	TU eP	Z	11 31 03				
	CT eP	Z	11 31 03				
	Epicentre		11 25 58.9	17.4S 167.5E 33km			USCGS
13	SU eS	N	18 53.3				
	CT eP	Z	18 53.32				
	TU eP	Z	18 53.36				
	GP eP	N	18 54.06				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
12	ON eS	Z	18 58 28				
	eL	Z	19 01.8				
	M	Z	04				
	WN eP	NE	19 00 28				
	RX e?	E	02.0				
	eL	N	03.1				
	eL	N	04.3				
	M	NE	05				
	Epicentre		18 47 44.5	6.0 22 5.2 21			USCGS 5.8
13	ON eP	E	00 31 28				
	TJ eP	Z	00 31 30				
	eS	Z	32 41				
	CT eP	Z	00 31 33				
	e	Z	31 43				
	TA eP	Z	00 31 53				
	e	Z	31 54				
	WN eP	NE	00 32 09				
	eS	NE	31 48				
	eL	Z	35.4				
	M	Z	35.5				
	CB e	E	00 32 37				
	eS	E	34 09				
	GP eP	N	00 32 45				
	eS	N	34 56				
	WN eS	X	00 34 47				
	RX eL	E	00 37.8				
	eL	N	38.5				
	M	NE	39				
	Epicentre		00 29 58	33.8S 178.7W N NZ(D)			5.7 NZ
14	SU eS	N	05 08 07				
	KP eP	Z	05 08 17				
	CT eP	Z	05 08 30				
	TU eP	Z	05 08 31				
	RX eL	NE	05 16				
	Epicentre		05 03 25.8	17.5S 167.7E 33km			USCGS
14	TU eP	Z	09 33 20				
	eS	Z	34 22				
	KP eP	Z	09 33 26				
	e	Z	34 34				
	ON eP	E	09 33 31				
	CT eP	Z	09 33 38				
	e(S)	Z	34 49				
	TA e?	Z	09 33(54)				
	WN eS	NE	09 35 27				
	CB e?	E	09 35 49				
	GP eS	N	09 36 37				
	Epicentre		09 32 00	35S 178W N NZ(D)			5.42
							5.1 NZ
15	KP eP	Z	00 29 11				
	TJ eP	Z	00 29 26				
	WN eL	Z	00 33.7				
	M	Z	34				
	RX eL	E	00 35				
	Epicentre		00 25 21.3	22.1S 172.1E 40km			USCGS
15	KP eP	Z	08 13 17				
	CT eP?	Z	08 13(28)				
	Epicentre		08 08 38.0	16.3S 173.5W 50km			USCGS
15	KP e(P)	Z	08 26 29				
	e	Z	42				

Date	Stn	Phase	h	m	s	Az	Tz	An	Tn	Ae	Te	Mag
OCT	TU	e(P)	Z	08	26	29						
	CT	e(P)	Z		08	26(37)						
15	TU	eP	Z	14	01	23						
		eS	Z		02	41						
		e?	Z		03	27						
	ON	eP	E	14	01	30						4.92
	KP	eP	Z	14	01	37						
	CT	e	Z	14	01	49						
		e	Z		02	03						
		e	Z		03	08						
	TA	eP	Z	14	02(11)							
	WN	eS	NE	14	03	47						
		eL	ZNE		05							
		M	Z		06							
	CB	eS	E	14	04	07						5.25
	KM	eS	X	14	04	48						5.35
	GP	eS	N	14	04	53						5.60
	RX	eL	NE	14	08							
		M	NE		10							
	Epicentre			13	59	50	33S	178.2W	100km	NZ(D)		5.3
15	TU	eP	Z	17	32	58						
		e	Z		35	04						
	WN	eS	NE	17	36	09						
		eL	Z		38							
	Epicentre			17	30	20.8	28.8S	176.4W	40km		USCGS	
15	KP	eP	Z	20	21	59						
	TU	eP	Z	20	22	13						
	CT	eP	Z	20	22(14)							
	Epicentre			20	17	16.4	17.7S	168.3E	65km		USCGS	
15	RX	eLq	E	21	34.8							
		eLq	N		35.7							
		eLr	Z		37							
		M	NE		37							
	WN	eL	Z	21	37		2.8	9	6.4	11		5.5
	Epicentre			21	26	20.7	65.0S	178.2E	33km		USCGS	
15	KM	iP	X	23	36	58.2 ne						
		i	X		37	01						
	RX	eP	ZNE	23	37	03.7						
		ePg	ZNE			07						
		S	ZNE			29 e						
	GP	eP	N	23	37	05.3						
		iPg	N			10.2						
		iSn	N			31						
		S	N			53						
	CB	iP	E	23	37	22.1 e						6.1
	WN	eP	ZNE	23	37	36.1						
		e	ZNE			38						
		S	ZNE			38						
	TA	iP	Z	23	37	54.5 u						
		S?	Z		39	03						
	CT	eP	Z	23	38	00.9						
		iP	Z			05						
	WK	eP	Z	23	38	11.(0)						
	KP	iP	Z	23	38	14.1 u						
	TU	eP	Z	23	38	(17.0)						
		S?	Z		39	45						
	AK	eP	N	23	38	21						
		S	N		39	57						
	ON	eP	E	23	38	34.1						
		eS	E		40	17						6.2

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Date	Str	Phase	h	m	s	Az Tz	An Tn	As Te	Mag
16	EP	Z	23	36	31.1	43.45S 169.65E S NZ(B)			6.1 NZ
CT	Epicentre					Felt: Most parts of the South Island.			
						Max. MM6 at Mt Cook and Fox Glacier.			
16	KP	eP	Z	01	13	40			
	TU	eP	Z	01	13	54			
	CT	eP	Z	01	13	56			
	Epicentre			01	08	47.1	17.0S 167.5E 33km		USCGS
16	KP	eP	Z	02	51	40			
	CT	eP?	Z	02	51	55			
	Epicentre			02	46	44.6	17.0S 167.7E 19km		USCGS
16	KP	eP	Z	02	54	30			
	CT	eP	Z	02	54	44			
	NN	eL	Z	03	01	5			
	N		Z		05				
	EX	eL	NE	03	03				
	eL		Z		06				
	Epicentre			02	49	37.0	17.1S 167.7E 33km		USCGS
16	KP	eP	Z	05	26	20			
	CT	eP	Z	05	26	34			
	NN	eL	Z	05	33	5			
	N		Z		36				
	EX	eL	NE	05	37				
	eL		Z		39				
	Epicentre			05	21	26.5	17.1S 167.6E 33km		USCGS
16	KP	eP	Z	09	54	58			
	CT	eP	Z	09	55	12			
	NN	eP	NE	09	55	27			
	Epicentre			09	50	47.3	18.9S 169.4E 261km		USCGS
16	KP	eP	Z	18	15				
	NN	eLq	E	18	41				
		eLr	ZNE		45				
	N		ZNE		50				
	EX	eL	NE		49				
	Epicentre			18	02	32.9	51.6N 175.8W 27km		USCGS
17	TU	eP	Z	03	19	21			
		eS	Z		20	04			
	KP	eP	Z	03	19	22			
	CT	eP	Z	03	19	33			
		e	Z		20	27			
	TA	eP	Z	03	19	42			
	NN	eS	NE	03	21	08			
	CB	eS	E	03	21	27			
	NN	e?	X	03	22	05			
	GP	e	N	03	22	13			
	Epicentre			03	18	24	36S 179E 280km NZ(D)		5.0 NZ
18	KP	eP	Z	04	16	06			
	NN	eP?	Z	04	16	(06)			
		eL	Z		35				
	TU	eP	Z	04	16	15			
	CT	eP	Z	04	16	(20)			
	EX	eL	E		36				
	Epicentre			04	06	00.4	8.9S 117.0E 33km		USCGS
18	KP	eP	Z	08	53	27			
	TU	eP	Z	08	53	31			
	CT	eP	Z	08	53	31			
	TA	e(P)	Z	08	53	31			
				08	53	(32)			

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Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag
OCT 18	WN	eP	Z	08	53	39			
Epicentre				08	40	55.5	46.5N 149.6E 140km	USCGS	
	WN	eP	Z	11	35	26			
Epicentre				14	22	40.2	46.5N 149.5E 128km	USCGS	
19	TU	eP	Z	04	25	39			
CT	eP	Z		04	25	41			
KP	eP	Z		04	25	45			
Epicentre				04	13	03.6	31.0S 69.4W 120km	USCGS	
19	TU	ePn	Z	08	33	30			
eSn	Z			34	45				
ON	ePn	E		08	33	33			
e(P*)	E			50					
CT	ePn	Z		08	33	41			
e(Pg)	Z			34	21				
KP	e(Pg)	Z		08	34	00			
WN	eSn	NE		08	35	51			
GP	eSn	N		08	37	03			
Epicentre				08	31	53	34S 178W S NZ(D) Charters Towers reading used to determine epicentre.		
19	ON	iP	E	17	15	34.7			
e		E		16	41				
TU	eP	Z		17	15	41			
e		Z		16	40				
eS	Z			50					
KP	eP	Z		17	15	43			
WK	eP	Z		17	15	47			
e		Z		17	09				
CT	eP	Z		17	15	53			
e		Z		17	17				
TA	eP	Z		17	16	02			
e		Z		17	34				
WN	eP	NE		17	16	17			
eS	NE			17	53				
CB	eP	E		17	16	27			
eS	E			18	09				
KM	eP	X		17	16	48			
eS	X			18	47				
GP	eP	N		17	16	53			
e	N			18	57				
Epicentre				17	14	15	33.5S 180.0 300km NZ(D) Charters Towers and Nurmijarvi readings used to determine epicentre.		
19	KP	eP	Z	23	51	29			
CT	eP	Z		23	51	35			
TU	eP	Z		23	51	39			
WN	eLr	Z		24	10				
Epicentre				23	42	34.9	5.7S 130.3E 177km	USCGS	
20	KP	e	Z	03	04	28			
TU	e?	Z		03	04	42			
CT	eP	Z		03	04	43			
e	Z			55					
20	TA	eP	Z	05	39	21			
CB	eP	E		05	39	31			
KM	eP	X		05	39	34			
KP	eP	Z		05	39	34			
CT	eP	Z		05	39	38			
WN	eP	ZNE		05	39	39			

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Date	Stn	Phase	h	m	s	Az Tz	An Tn	Ae Te	Mag
OCT 18	TU	eL	Z	06	02				
Epicentre				05	59	44.1	6.7S 130.1E 167km	USCGS	
19	TU	eP	Z	21	34	17			
	eS	Z		35	30				
ON	eP	E		21	34	(22)			
KP	e	Z		21	34	32			
CT	eP	Z		36	04				
e	Z			21	34	(55)			
TA	e	Z		21	36	35			
NN	eS	NE		21	37	40			
GP	eS	N		21	32	42	34S 178W N NZ(D)		5.0 NZ
Epicentre				04	42	52			
20	CT	eP	Z	04	42	55			
	eP	Z		04	43	15			
GP	eP	N		04	49	42			
NN	eS	ZNE		53					
e(Lr)	Z			56					
eLq	ZNE	05	01						
Epicentre				04	34	38.9	3.4S 145.3E 36km	USCGS	
21	TU	eP	Z	05	20	51			
	eS	Z		21	27				
KP	eP	Z		05	21	09			
e	Z			25					
CT	eP	Z		05	21	11			
e	Z			22	01				
TA	eP	Z		05	21	25			
eS	Z			22	21				
NN	eP	NE		05	21	25			
eS	NE			22	26				
GP	e	N		05	22	21			
eS	N			23	28				
CB	eS	E		05	22	58			
KM	eS	X		05	23	35			
Epicentre				05	20	06	38.8S 179.1W N NZ(C)		5.1 NZ
22	NN	eL	ZE	10	01	18			
Epicentre				09	06	10.1	73.4N 59.9E 0km	USCGS	5-5½ PAL
23	NN	eGKS	ZNE	15	47	08			
	eS	ZN		48	50				
	eSS	N		54.2					
e	N			57.5					
e(Lq)	E			16	01.2				
eLr	ZNE			06					
M	ZNE			09					
RX	eL	E		16	12				
Epicentre				15	23	32.9	49.8N 155.8E 19km	USCGS	
24	XP	eP	Z	00	31	23			
	eP	Z		00	31	26			
TA	eP	Z		00	31	39			
NN	eL	Z		00	39				
eL	E			40					
eL	N			41					
Epicentre				00	26	00.3	15.2S 173.0W 33km	USCGS	
25	XP	eP	Z	10	07	52			
	eP	Z		10	08	00			
Epicentre				09	57	41.0	18.4N 145.6E 150km	USCGS	

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
OCT	TU	eP	Z 00 42 19				
	e	Z	39				
	e	Z	52				
KP	iP	Z	00 42 22.7 u				
	eS	Z	49				
WK	eP	Z	00 42 28				
CT	iP	Z	00 42 33.8				
	e	Z	43 18				
ON	eP	E	00 42 38				
	eS	E	43 16				
TA	eP	Z	00 42 45				
WN	eP	NE	00 42 55				
	eS	NE	43 51				
CB	e?	E	00 43 19				
	e	E	23				
	eS	E	44 16				
GP	eP	N	00 43 35				
	eS	N	44 57				
KM	e?	X	00 43 57				
	eS	X	44 54				
Epicentre			00 41 48				
				37.0S 178.0E 90km NZ(D)			
				Charters Towers reading used to determine epicentre.			
24	KP	eP	Z 05 08 14				
	WN	eL	Z 05 17				
	Epicentre		05 03 21.4	17.3S 167.6E 33km	USCGS		
25	KP	eP	Z 03 43 37				
	TU	eP	Z 03 43 51				
	AK	eS	N 03 47 19				
	eL	N	50.5				
	CT	eP	Z 03 43 52				
	WN	eS	ZE 03 48 27				
	eL	ZNE	51				
	M	ZNE	53				
	RX	eL	E 03 52				
	eL	N	54				
	M	E	55				
	eL	Z	56				
	M	N	57				
	Epicentre		03 38 48.9	17.8S 167.7E 33km	USCGS		
25	CB	eP	E 09 44 17				
	KP	eP	Z 09 44 18				
	e(ScP)	Z	48 16				
	TA	eP	Z 09 44(19)				
	CT	eP	Z 09 44 23				
	WN	eP	ZNE 09 44 25				
	e?	Z	50 23				
	eS	Z	52.6				
	e(SS)	Z	10 00.0				
	eLq	E	02				
	eLr	Z	04				
	M	ZE	05				
	GP	eP	N 09 44 26				
	KM	e?	X 09 44 27				
	TU	eP	Z 09 44 28				
	RX	eS	E 09 53				
	eL	NE	59				
	eL	Z	10 15				
	Epicentre		09 34 14.6	3.0N 126.7E 33km	USCGS		
25	RX	eP	ZNE 20 10 23 une				
	eS	E	13 50				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
25		eL	ZNE 14.8				
	M	ZNE 15					
	GP	eP N 20 10 52		57 22	54 22	34 20	6.1
	eS	N 14 56					
	eL	N 15.3					
	EM	X 20 11 00					
	eS	X 15.08					
	eL	X 20 11 16					
	CB	E 15.42					
	eS	E 15.3					
	eL	E 20 11 20					
	ST	ZNE 20 11 20					
	eS	ZNE 15.40					
	eL	ZNE 17					
	M	ZNE 19					
	CT	E 20 11 39					
	TU	Z 20 11 47					
	KP	Z 20 12 04					
	AK	N 20 12 30					
	eS	N 17.35					
	eL	N 19.7					
	M	N 21					
	SU	ES N 20 21					
	eL	N 28					
	Epicentre		20 06 10.0	61.4S 154.9E 33km	USCGS		
25	KP	eP	Z 21 21 32				
	CT	eP	Z 21 21 52				
	SU	eP N 07 22					
	es	N 25					
	eL	N 26					
	ON	eP E 07 24 50					
	KP	eP Z 07 25 14					
	TU	eP Z 07 25 27					
	CT	eP Z 07 25 31					
	TA	eP Z 07 25(33)					
	WN	eP ZN 07 25 42					
	e	ZNE 57					
	eS	ZNE 30 09					
	e(SS)	E 31 45					
	eL	ZNE 32					
	M	E 33					
	M	ZN 34					
	RX	eL NE 07 31					
	eL	Z 36					
	M	NE 37					
	Z	39					
	Epicentre		07 20 25.8	12.2 16	15 16	5.9	
				19.5 15	17.7S 167.5E 33km	USCGS	
26	CT	eP Z 16 11 03					
	RX	eL E 16 37					
	eL	N 40					
	MN	eL Z 16 37					
	M	Z 45					
	Epicentre		15 58 34.8	55.5S 26.5W 33km	USCGS		
26	TU	e(P) Z 20 33 09					
	Epicentre		20 22 58.6	0.1N 124.1E 112km	USCGS		
27	WN	eL Z 06 19					
27	SU	e(P) N 22 10 50					
	eL	N 12					
	KP	e? Z 22 15 40					

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
OCT	TA	e?	Z 22 16 00				
	WN	e(L)	ZNE 22 23				
	M	ZNE	27				
RX	eL	E	22 28				
	eL	N	30				
27	TU	eP	Z 23 31 22				
		e(S)	Z 32 29				
	KP	eP	Z 23 31 27				
	CT	eP	Z 23 31 41				
	e	Z	32 54				
	WN	eS	NE 23 33 39				
	GP	eS	N 23 34 47				
	Epicentre		23 29 56	34½S 178W N NZ(D)			
28	ON	eP	E 14 02 58				
	TU	eP	Z 14 03 01				
	eS	Z	04 26				
	CT	eP	Z 14 03 16				
	e	Z	04 54				
	TA	?	Z 14 03 30				
	WN	eS	NE 14 05 35				
	GP	eS	N 14 06 39				
	Epicentre		14 01 11.2	32.3S 178.8W 33km	USCGS		
28	TA	eP	Z 15 10 29				
	CT	eP	Z 15 10 29				
	e(PcP)	Z	11 11				
	e	Z	17 11				
	TU	eP	Z 15 10 35				
	e(PcP)	Z	11 07				
	e	Z	16 51				
	WN	e(S)	ZNE 15 17				
	GP	eS	N 15 18 48				
	Epicentre		15 00 17.0	0.1N 123.6E 61km	USCGS		
29	WN	e?	Z 16 26 26				
	eL	Z	35.5				
	M	Z	36				
29	WN	eL	Z 21 30.6				
	RX	eL	E 21 32				
	eL	N	33				
	M	N	35				
	M	E	38				
	Epicentre		21 01 32	23.3S 111.5W 33km	USCGS		
30	CT	eP	Z 01 59 17				
	KP	eP	Z 01 59 25				
	e(PP)	Z	02 02 49				
	TU	eP	Z 01 59 31				
	e?	Z	02 03 29				
	RX	eS	N 02 08 54				
	e(SS)	N	13 28				
	e	E	19 24				
	e	N	22 10				
	e(Lq)	E	23 50				
	e(Lq)	N	26				
	eLr	Z	28.5				
	M	ZN	30				
	M	E	32				
	WN	eS	Z 02 09 40	6.2 18 7.5 22	3.4 17		
	e(SS)	Z	14 54				
	eSSS	Z	19 08				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
OCT		e(L)	Z 27.3				
		eLr	Z 30				
		M	Z 36				
	Epicentre		01 46 32.7	54.2S 9.1E 33km			USCGS
30	WN	e(Lr)	Z 09 20				
	RX	e(Lr)	E 09 24				
	Epicentre		08 31 51.8	12.5N 88.0W 80km			USCGS
30	CT	eP	Z 15 25 01				
	eS	Z	28 45				
	TA	eP	Z 15 25 09				
	GP	e(P)	N 15 26 01				
	eS	N	30 15				
	WN	eL	Z 15 31				
	RX	eL	E 15 34				
	eL	N	37				
	Epicentre		15 20.5	19S 177W			BCIS
30	CT	eP	Z 15 48 02				
	GP	eP?	N 15 48 17				
	WN	ePP	Z 15 50 08				
	eL	E	15 59				
	eL	Z	16 00				
	eL	N	06				
	M	ZE	07				
	RX	eL	E 16 05				
	eL	N	06				
	Epicentre		15 40.3	6½S 149E			BCIS
31	WN	e(Pg)	ZE 11 59 58				
	eSS	ZE	12 05 42				
	eLq	N	17				
	eLr	ZE	20				
	M	ZE	21				
	RX	eSS	E 12 06 36				
	eLr	Z	22				
	Epicentre		11 32 29.0	5.6N 82.6W 33km			USCGS 6½ PAS
31	KP	eP	Z 23 10 08				
	TU	eP	Z 23 10 09				
	TA	eP	Z 23 10 24				
	WN	eP	ZNE 23 10 41				
	e	ZNE	51				
	eS	E	14 30				
	eL	Z	17				
31	SU	e	N 09 49 36				
	ON	eP	E 09 50 07				
	KP	eP	Z 09 50 24				
	TU	e(P)	Z 09 50 26				
	eS	Z	52 58				
	CT	eP	Z 09 50 32				
	eS?	Z	53 18				
	TA	eP	Z 09 50 38				
	e	Z	54 38				
	WN	eP	ZNE 09 50 53				
	eS	ZNE	53 51				
	KM	e(P)	X 09 51 14				
	eS	X	54 26				
	CB	eS	E 09 53 57				
	TO	e	Y 09 54 36				
	GP	eS	N 09 54 41				
	Epicentre		09 47 15.6	23.7S 179.6W 525km			USCGS

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Stn	Phase		h m s	Az Tz	An Tn	Ae Te	Mag
EW	Epicentre		14 46 39.2	10.0S	117.8E	33km	USCGS
J TU	eP	Z	15 22 42				
	e	Z	55				
NN	M	Z	15 47				
Epicentre			15 12 37.2	10.2S	117.6E	33km	USCGS
J KP	P	Z	18 48 09				
CT	P	Z	18 48 09½				
	e	Z	25				
	S	Z	36				
TD	eP	Y	18 48 10				
	S	Y	36				
TA	eP	Z	18 48 11				
	e	Z	14				
	e(S)	Z	40				
	e	Z	47				
	e	Z	52				
TU	P	Z	18 48 13				
	e	Z	31				
	I	Z	39				
	e(S)	Z	43				
NN	eP	NE	18 48 24				
	S	NE	49 03				
ON	eP	E	18 48 25				
	eS	E	49 06				
CB	eP	E	18 48 29				
	eS	E	49 12				
NM	eP	X	18 48 49				
	eS	X	49 46				
GP	eP	N	18 48 55				
	eS	N	49 58				
Epicentre			18 47 34	38.5S	175.4E	260km NZ(B)	5.0 NZ
J CT	IP	Z	01 07 11 d				
	eP	Z	22				
TU	eP	Z	01 07 13				
	e(pP)	Z	23				
NN	eL	Z	01 18				
EX	eL	NE	01 20				
	M	E	23				
Epicentre			01 00 24.9	7.9S	158.3E	86km	1 17
							USCGS
J TU	e	Z	03 22 52				
Epicentre			03 12 37.8	10.3S	117.8E	33km	USCGS
J TU	eP	Z	05 10 34				
	e(pP)	Z	44				
Epicentre			05 00 29.7	10.3S	117.8E	33km	USCGS
J NN	P	Z	23 05 12 d				
	ePP	Z	08 07				
	e(S)	Z	14 54				
	eL	Z	27				
	M	Z	29				
CT	eP	Z	23 05 18				
EP	P	Z	23 05 26				
NM	e(S)	NE	23 15 12				
Epicentre			30				
			22 53 34.2	3 20			
				43.2S	75.6W	33km	2 19
							USCGS
J TU	P	Z	00 13 04 d				
	eP*	Z	10				
	e(S*)	Z	35				
WK	e(P*)	Z	00 13 19				6.0 5½-6

Date	Stn	Phase	h	m	s	Az	Tz	An	Tn	Ae	Te
NOV		e(S)	Z		40						Nag
	KP	eP	Z	00	13	20	u				
		e(P*)	Z			34					
		e	Z			42					
	CT	eP	Z	00	13	22					
		e	Z			38					
		e	Z			44					
	TO	eP*	Y	00	13	33					
	TA	eP	Z	00	13	35					
		e(S)	Z			14	31				
	ON	eP?	E	00	13	36					
		e(P*)	E			13	51				
		e(Pg)	E			14	07				
		e	E			13					
	WN	eP	ZE	00	13	41					
		e	E			14	31				
		eS	ZNE			35					
		eL	Z			15					
		e	N			16	03				
	CB	e(P*)	E	00	14	10					
		e(Pg)	E			21					
		eS	E			15	04				
		e(S*)	E			31					
	GP	e(PP)	N	00	14	25					
		e	N			15	38				
		eS	N			40					
		e	N			16	03				
	AK	eL	N	00	14	12					
	KM	e(S)	X	00	15	41					
		e	X			16	02				
	RX	eL	NE	00	18						
		Epicentre		00	12	30		37.9S	179.6E	S	NZ(D)
											5.2 M
5	WN	eL	Z	21	17						
		M	Z			19					
	RX	eL	E	21	18						
		M	E			20					
		Epicentre		20	54	41		49.8S	114.9W	33km	0.5 18
											USCGS
6	WN	eL	Z	04	26						
		M	Z			29					
		Epicentre		03	36	46.9		45.8N	122.5W	44km	USCGS
											41-51
6	KP	P	Z	21	34	13	d				
	CT	P	Z	21	34	21					
	TU	eP	Z	21	34	25					
	WN	P	Z	21	34	31					
		Epicentre		21	26	47.8		4.9S	152.7E	68km	USCGS
7	KP	eP	Z	06	25	29					
	TA	eP	Z	06	25	44					
		Epicentre		06	22	16.0		23.2S	179.9W	534km	USCGS
7	ON	eP	E	16	12	39					
	TA	eP	Z	16	12	39					
		epP	Z			13	25				
	GP	eP	N	16	12	44					
		epP	N			13	29				
		e	N			36					
	CB	eP?	E	16	12	42					
		e?	E			13	19				
		epP	E			23					
	WN	eP	NE	16	12	47					
		epP	NE			13	28				
		eSS	Z			24					

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NEW ZEALAND STATION			h m s	Az Tz	An Tn	Ae Te	Mag
SST	Stn Phase		14 46 39.2	10.0S	117.8E	33km	USCGS
JTU	Epicentre	Z	15 22 42				
JTU	eP	Z	15 22 55				
JTU	e	Z					
JTU	M	Z	15 47				
JTU	Epicentre	Z	15 12 37.2	10.2S	117.6E	33km	USCGS
JTU	P	Z	18 48 09				
JTU	P	Z	18 48 09				
JTU	CT	Z	25				
JTU	e	Z	36				
JTU	S	Z	36				
JTU	S	Y	18 48 10				
JTU	S	Y	36				
JTU	TA	Z	18 48 11				
JTU	eP	Z	14				
JTU	e	Z					
JTU	e(S)	Z	40				
JTU	e	Z	47				
JTU	e	Z	52				
JTU	TU	Z	18 48 13				
JTU	e	Z	31				
JTU	i	Z	39				
JTU	e(S)	Z	43				
JTU	NN	eP	NE	18 48 24			
JTU	S	S	NE	49 03			
JTU	ON	eP	E	18 48 25			
JTU	eS	E		49 06			
JTU	CB	eP	E	18 48 29			
JTU	eS	E		49 12			
JTU	KM	eP	X	18 48 49			
JTU	eS	X		49 46			
JTU	GP	eP	N	18 48 55			
JTU	eS	N		49 58			
JTU	Epicentre		18 47 34	38.5S	175.4E	260km NZ(B)	5.0 N2
JTU	CT	IP	Z	01 07 11 d			
JTU		eP	Z	22			
JTU	TU	eP	Z	01 07 13			
JTU		e(P)	Z	23			
JTU	NN	eL	Z	01 18			
JTU	NN	eL	NE	01 20			
JTU	NN	M	E	23			
JTU	Epicentre		01 00 24.9	7.9S	158.3E	86km	1 17 USCGS
JTU	JTU	e	Z	03 22 52			
JTU	Epicentre		03 12 37.8	10.3S	117.8E	33km	USCGS
JTU	JTU	eP	Z	05 10 34			
JTU	Epicentre		05 00 29.7	10.3S	117.8E	33km	USCGS
JTU	NN	P	Z	23 05 12 d			
JTU		ePP	Z	08 07			
JTU		e(S)	Z	14 54			
JTU		eL	Z	27			
JTU		M	Z	29			
JTU	CT	eP	Z	23 05 18			
JTU	XP	P	Z	23 05 26			
JTU	NN	e(S)	NE	23 15 12			
JTU	NN	M	NE	30			
JTU	Epicentre		22 53 34.2	3 20			
JTU	JTU	P	Z	00 13 04 d	2 19		
JTU		eP*	Z	10			
JTU		e(S*)	Z	35			
JTU	NN	e(P*)	Z	00 13 19	43.2S	75.6W	33km USCGS 6.0 5½-6

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV	KP	e(S)	Z	00 13 40			
		eP	Z	00 13 20 u			
		e(P*)	Z	00 13 34			
		e	Z	00 13 42			
	CT	eP	Z	00 13 22			
		e	Z	00 13 38			
		e	Z	00 13 44			
	TO	eP*	Y	00 13 33			
	TA	eP	Z	00 13 35			
		e(S)	Z	00 13 31			
	ON	eP?	E	00 13 36			
		e(P*)	E	00 13 51			
		e(Pg)	E	00 14 07			
		e	E	00 13 13			
	WN	eP	ZE	00 13 41			
		e	E	00 14 31			
		eS	ZNE	00 13 35			
		eL	Z	00 15 15			
		e	N	00 16 03			
	CB	e(P*)	E	00 14 10			
		e(Pg)	E	00 21			
		eS	E	00 15 04			
	GP	e(S*)	E	00 31			
		e(PP)	N	00 14 25			
		e	N	00 15 38			
		eS	N	00 40			
		e	N	00 16 03			
	AK	eL	N	00 14 3			
	KM	e(S)	X	00 15 41			
		e	X	00 16 02			
	RX	eL	NE	00 18			
	Epicentre			00 12 30	37.9S 179.6E S NZ(D)		5.2 N
5	WN	eL	Z	21 17			
		M	Z	21 19			
	RX	eL	E	21 18			
		M	E	20			
	Epicentre			20 54 41	49.8S 114.9W 33km	0.5 18	USCGS 5.2
6	WN	eL	Z	04 26			
		M	Z	29			
	Epicentre			03 36 46.9	45.8N 122.5W 44km		USCGS 44-51
6	KP	P	Z	21 34 13 d			
	CT	P	Z	21 34 21			
	TU	eP	Z	21 34 25			
	WN	P	Z	21 34 31			
	Epicentre			21 26 47.8	4.9S 152.7E 68km		USCGS
7	KP	eP	Z	06 25 29			
	TA	eP	Z	06 25 44			
	Epicentre			06 22 16.0	23.2S 179.9W 534km		USCGS
7	ON	eP	E	16 12 39			
	TA	eP	Z	16 12 39			
		epP	Z	13 25			
	GP	eP	N	16 12 44			
		epP	N	13 29			
		e	N	13 36			
	CB	eP?	E	16 12 42			
		e?	E	13 19			
	WN	epP	E	16 12 23			
		epP	NE	16 12 47			
		eSS	Z	13 28			
				24			

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV	CT	e(SS)Z	Z	16 12 27			
		eP	Z	16 12 49			
		e	Z	13 06			
		epP	Z	13 30			
	TU	eP	Z	16 12 55			
		epP	Z	13 37			
	EX	eS	E	16 20 10			
		eSS	NN	26			
	Epicentre			16 03 04.1	7.8S 119.8E 156km	0.5 14	USCGS 5.2
5	WN	e(L)	Z	00 46			
	Epicentre			00 02 08.6	15.1S 75.6W 33km		USCGS
5	RX	eSS	E	01 01 32			
		eL	ZNE	12			
		L	E	15			
	WN	eL	Z	01 10			
		M	Z	10			
		M	Z	12			
	Epicentre			00 33 13.8	4.4S 105.5W 33km		USCGS
5	SU	eL	N	07 53			
	KF	eP?	Z	07 53 07			
	CT	e?	Z	07 53 24			
	TU	e(P)	Z	07 53 26			
	AK	eL	N	07 59			
	WN	eL	Z	08 01			
		M	Z	04			
	RX	eL	E	08 01			
		eL	Z	05			
	Epicentre			07 48 44.7	20.1S 168.6E 33km		USCGS
5	CT	eP	Z	10 08 46			
		e(pP)	Z	09 02			
	TU	P	Z	10 08 47			
	Epicentre			10 03 22.8	14.7S 167.1E 86km		USCGS
5	ON	e(P)	E	17 19 40			
	TU	eP	Z	17 19 52			
		e	Z	20 03			
		e	Z	06			
		e	Z	13			
	CT	P	Z	17 20 01			
		e	Z	21 32			
		e(S)	Z	34			
	TA	eP	Z	17 20 10			
	WN	eP	ZNE	17 20 24			
		eS	NE	22 10			
	OP	e(P)	N	17 21 02			
		e(S)	N	23 15			
		e	N	17			
	TD	e(S)	Y	17 21 33			
	CP	eS	E	17 22 29			
	KN	eS	X	17 23 08			
	Epicentre			17 17 54.3	31.5S 180.0 71km		USCGS
5	WN	eL	ZE	18 57			
		M	E	58			
	RX	eL	E	19 00			
5	WN	eL	Z	00 52			
5	ON	eP	E	08 29 33			
	KF	eP	Z	08 29 46 u			
	TU	eP	Z	08 29 48			

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV	CT	eP	Z 08 29(55)				
	WN	eP?	Z 08 30 13				
	GP	e(P)	N 08 30 41				
	Epicentre		08 26 10.0	20.5S	178.8W	522km	
9	KP	e(P)	Z 09 33 54				
	WN	eL	Z 10 01				
	Epicentre		09 21 30.8	35.8N	140.3E	33km	
9	TU	eP	Z 16 16 45				
	e	Z	16 57				
	eS	Z	18 08				
ON	e(P)	E	16 17 03				
TO	e(S)	Y	16 18 39				
WN	eS	ZNE	16 19 14				
GP	eS	ZNE	20				
	M	E	21				
	M	ZN	22				
CB	eS	E	16 19 36				
KM	e(S)	X	16 20 05				
GP	eS	N	16 20 19				
	e	N	29				
RX	eL	NE	16 23				
	M	NE	25				
SU	e	N	16 24				
	Epicentre		16 14 57	35S	175W	N NZ(D)	
				5.4 N			
9	TU	e	Z 18 11 56				
	WN	e	ZNE 18 12 14				
	Epicentre		18 02 27.9	5.4S	132.5E	33km	
9	TU	eP	Z 20 27 46				
	eS	Z	29 08				
ON	e	E	20 28 03				
GP	e(P)	N	20 29 05				
	e	N	48				
	eS	N	31 25				
RX	e?	Z	20 29 37				
	eL	E	35				
WN	M	Z	20 33				
	Epicentre		20 26 00	35S	175W	N NZ(D)	
				5 N			
10	KP	eP	Z 01 45 54				
	e(P)	Z	46 11				
	e	Z	18				
TU	e(P)	Z	01 45 56				
	e	Z	46 15				
WN	e?	Z	01 55 50				
	e(SKS)	Z	56 30				
	e	Z	57.7				
RX	eSKS	N	01 56 48				
	eS	NE	57 18				
	eSS	N	02 03 18				
	eL	E	11				
	eL	NE	15				
SU	M	NE	20				
	Epicentre		02 06	2 23	3 23	6.7	
				43.8N	147.2E	60km	
10	SU	eL	N 02 50				
	Epicentre		02 26 19.1	12.8N	143.6E	37km	
				USCGS	5½		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV 10	KP	eP	Z 07 21 49				
	TU	e(P)	Z 07 22 03				
	Epicentre		07 17 08.5	17.9S	169.4E	54km	USCGS
10	WN	eL	Z 21 42				
	M	Z	44				
	Epicentre		21 13 25.5	9.8S	123.8E	33km	USCGS
10	ON	P	E 22 15 50				
	TU	eP	Z 22 16 01				
	i	Z	04				
	eS	Z	17 40				
	e	Z	44				
	KP	eP	Z 22 16 03				
	TD	e(P)	Y 22 16 19				
	TA	eP	Z 22 16 22				
	eS	Z	18 23				
	JN	eP	ZNE 22 16 36				
	e	ZNE	18 40				
	eS	ZNE	43				
	GP	N	22 17 11				
	eS	N	19 41				
	CB	eS	E 22 18 55				
	KM	eS	X 22 19 31				
	Epicentre		22 13 48.9	30.1S	179.1W	215km	USCGS
11	SU	e3	N 05 19 55				
11	KP	eP	Z 06 35 04				
	TU	eP	Z 06 35 12				
	Epicentre		06 24 51.7	18.4N	145.6E	135km	USCGS
11	KP	e?	Z 08 12 08				
	NN	e?	Z 08 12 49				
	e(L)	Z	08 20				
	e(L)	Z	41				
	RX	eL	E 08 17				0.6 20
11	NN	eL	Z 12 30				
	M	Z	34				
	Epicentre		11 31 44.5	55.8N	113.1E	33km	USCGS 6½
11	ON	eP	E 14 50 21				
	e	E	36				
	e	E	47				
	TU	eP	Z 14 50 23				
	e	Z	42				
	eS	Z	51 55				
	TA	e(P)	Z 14 50 51				
	s(S)	Z	52 42				
	ID	e(S)	Y 14 52 19				
	NN	eS	ZNE 14 53 02				
	eL	Z	56				
	CB	e(S)	E 14 53 22				
	GP	eS	N 14 54 08				
	Epicentre		14 48 24	Kermadec Island region NZ			
11	SU	eP	N 16 13 05				
	eS	N	15 28				
	ON	P	E 16 15 12				
	KP	eP	Z 16 15 28				
	TA	P	Z 16 15 28				
	TU	eP	Z 16 15 38				
	e	Z	16 15 38				
	eS	Z	18 55				
			20 17				
				14 9			7.2

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date	Stn	Phase	h	m	s	Az	Tz	An	Tn	Ae	Te	Mag
OV	eScP	Z		22	37							
	eScS	Z		26	24							
CT	P	Z	16	15	(39)							
TO	eP	Y	16	15	41							
CB	eP	E	16	15	51							
WN	eP	ZNE	16	15	52 u							
	eS	ZNE		20	43							
	eScP	Z		22	37							
	eL	ZE		23								
	ScS	NE		26	30							
	M	ZNE		27								
KM	eP	X	16	16	00							
GP	P	N	16	16	10 s							
	e	N		19	07							
RX	IP	ZNE	16	16	23½ us							
	IS	E		21	36 e							
	eL	NE		24								
Epicentre			16	09	57.6			12.9S	166.5E	77km		USCGS
11	KP	eP	Z	22	26	07 u						
	RX	eS	NE	22	35	34						
		eSS	E		40	18					2.5	18
		eLq	NE		45	28						
		eLr	E		49							
		M	E		50							
Epicentre			22	14	18.7			43.2S	76.0W	33km	2.25	USCGS
12	TU	eP	Z	13	01	12						
Epicentre			12	49	10.8			26.0N	128.4E	40km		USCGS
13	KP	eP	Z	09	07	32						
Epicentre			08	54	39.1			42.0N	141.9E	61km		USCGS
13	KP	eP	Z	22	00	15						
Epicentre			21	47	50.3			56.9S	29.0W	33km		USCGS
14	RX	eL	E	05	32							
Epicentre			05	15	43.7			15.4S	168.0E	66km		USCGS
14	KP	eP	Z	07	27	10						
TU	e(P)	Z	07	27	23							
	e(S)	Z		29	14							
GP	e(P)	N	07	28	14							
	eS	N		31	26							
WN	eS	ZNE	07	30	21							
RX	eL	E	07	35								
	M	E		36								
Epicentre			07	23	50.3			26.5S	176.2W	33km	1.5	20
14	KP	eP	Z	08	00	10						
TU	e(P)	Z	08	00	18							
WN	e?	Z	08	00	40							
Epicentre			07	48	05.5			35.7N	140.8E	61km		USCGS
14	TA	e(P)	Z	22	09	26						
KP	eP	Z	22	09	31							
	e	Z			40							
TU	eP	Z	22	09	32							
	e	Z			43							
WN	e	Z	22	09	36							
	e	Z			39							
	e	ZNE			46							
	eS	Z			17.50							
	eSSS	Z			24½							
	eL	Z			29							

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Date	Stn	Phase	h	m	s	Az	Tz	An	Tn	As	Te	Mag
15	M	Z			32							
	M	Z			35							
	RW	Z	22	09	38							
	eS	E			18							
	e(s)	E			24							
	eSS	N			35							
	M	E	21	59	16.1	0.3S	123.0E	92km		2 22	USCGS	5.7
	Epicentre											
15	TU	eS	Z	11	37	09						
	Epicentre					11 30 38.6	21.0S	178.4W	590km		USCGS	
15	NN	eS	Z	16	14	.1						
	eSS	ZE			19	.2						
	eL	Z			28							
	M	Z			30							
	M	ZE			35							
	RW	eL	E	16	29							
	M	E			31							
	Epicentre				15 51 57.6	38.3S	73.2W	33km		2 18	USCGS	5.8
15	TA	e	Z	16	32	13						
	e	Z			53							
	e	Z			33 08							
	TU	eP	Z	16	32	58						
	e(p)	Z			33 16							
	GP	eP	N	16	33	07						
	Epicentre				16 25 09.4	6.9S	146.7E	40km			USCGS	
15	KP	eP	Z	23	38	39						
NN	eP	Z	23	38	46							
	e	Z			51							
	e	Z			56							
	eL	Z	24	09								
	M	Z			10							
	M	ZE			14							
	RW	e(Ps)	E	23	52							
	eSS	E			57							
	eL	NE	24	12								
	M	E			15							
	Epicentre				23 25 15.7	8.7S	79.8W	45km		3 18	USCGS	6.0
16	NN	eP	Z	07	28	29						
	e	Z			32							
	e	Z			38							
	eS	ZNE			36 40							
	G	NE			42	.2						
	eL	ZE			45							
	M	ZN			52							
	KP	eP	Z	07	28	34						
	AZ	e	Z			40						
	eS	N	07	36	57							
	eL	N			45							
	M	N			46							
	RW	eS	NE	07	37	13						
	eScS	N			38 46							
	eL	NE			44							
	SU	e(S)	N	07	38	05						
	e	N			40 55							
	e(L)	N			46	.2						
	M	N			48							
	Epicentre				56							
	16	KP	P	Z	07	18	37.3	32.3S	111.1W	43km	USCGS	
	NN	P	Z	10	02	34						
					02	42						

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV	WN	eP	Z 02 49				
	Epicentre		09 52 25.1	19.0N 145.3E 207km			USCGS
16	ON	eP	Z 11 59 03				
	TU	eP	Z 11 59 16				
	eS	Z	12 00 57				
	e	Z	01 05				
	CT	eP	Z 11 59(25)				
	eS	Z	12 01(18)				
	e	Z	(24)				
	TO	e	Y 11 59 29				
	eS	Y	12 01 19				
	TA	e(P)	Z 11 59 34				
	e(S)	Z	12 01 37				
	WN	e	E 11 59 56				
	e?	Z	12 00 01				
	e	E	01 58				
	eS	NE	02 00				
	GP	e	N 12 00 27				5.4
	eS	N	02 58				
	CB	eS	E 12 02 12				
	KM	eS	X 12 02 48				
	Epicentre		11 57.1	Kermadec Islands region NZ			
16	TU	eP	Z 22 42 02				
	e	Z	43 28				
	e	Z	34				
	TO	eP	Y 22 42 13				
	eS	Y	43 51				
	TA	eP	Z 22 42 18				
	WN	eP?	ZE 22 42 33				
	eS	ZNE	44 30				
	GP	eS	N 22 45 26				
	Epicentre		22 40 04	Kermadec Islands region NZ			
16	TA	eP	Z 21 22 43				
	ON	eP?	E 21 23 17				
	e	E	20				
	TU	e(P)	Z 21 23 18				
	RX	eSKS	NE 21 33 29				
	eSS	E	40				
	eL	E	54				
	M	E	22 05				
	WN	e?	Z 21 37 16				
	eSS	Z	40 28	4 21	6.1		
	e(PePPPKF)	Z	45 12				
	eL	Z	54				
	M	Z	22 06				
	Epicentre		21 10 01.8	13.5N 93.2E 33km			USCGS
17	TO	e(P)	Y 01 24 17				
	TU	eP	Z 01 24 36				
	Epicentre		01 13 22.8	2.7S 126.9E 37km			USCGS
17	SU	e(L)	N 09 49				
	WN	eL	Z 11 53				
	M	Z	56				
	Epicentre		11 07 15.4	16.3N 98.2W 12km			USCGS
17	TA	eP	Z 14 31 08				
	WN	eP	Z 14 31 12				
	e(L)	Z	53				
	M	Z	58				
	TU	eP	Z 14 31 17				
	Epicentre		14 21 30.6	2.8N 121.7E 609km			USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV 17	SU	e	N 23 23				
	WN	eP	Z 06 53 19				
	TU	eP	Z 06 53 29				
	RX	eL	Z 07 15				
	M	Z	22				
	RX	eL	E 07 16				
	M	Z	17				
	Epicentre		06 43 08.3	0.2S 125.1E 56km	1 23		USCGS 5.5
18	TU	eP	Z 07 06 11				
	e	Z	07 18				
18	TU	eP	Z 12 05 27				
	e(pP)	Z	48				
	TA	eP	Z 12 05 42				
	RX	e(P)	X 12 06 15				
	Epicentre		12 00 26.7	16.4S 174.1W 129km			USCGS
19	SU	eL	N 02 15				
	WN	e(P)	Z 04 27 19				
	Epicentre		04 15 36.1	24.3N 122.6E 53km			USCGS
	WN	eS	Z 10 30 16				
	eL	Z	36				
	M	ZE	39				
	RX	eS	NE 10 30 38				
	eL	ZNE	35				
	M	E	37				
	Epicentre		10 14 29.4	50.0S 114.3W 33km	3 20		USCGS 5.7
	RX	eL	NE 14 07				
	WN	eL	E 14 08				
	eL	ZNE	10				
	Epicentre		13 58 57.6	60.7S 152.9E 33km			USCGS
	WN	e(L)	Z 08 20				
	Epicentre		07 32 42.9	56.2N 159.3E 33km			USCGS
	RX	eP	Z 10 18 17				
	e(pP)	Z	27				
	e	Z	43				
	TU	eP	Z 10 18 29				
	WN	e(P)	Z 10 18 36				
	eL	Z	30				
	Epicentre		10 11 11.2	6.1S 154.5E 69km			USCGS
20	TU	eP	Z 13 10 08				
	Epicentre		13 00 00.3	1.8N 126.4E 109km			USCGS
	CP	eP	N 22 45 45				
	eS	N	47 12				
	RX	e	Z 22 45 52				
	eS	Z	46				
	eL	NE	46				
	RX	e(S)	X 22 47 23				
	e	X	31				
	CB	eS	E 22 48 10				
	WN	eL	Z 22 51				
	Epicentre		22 43.8	49S 164E N NZ(D)			
	RX	eP	Z 23 04 57				
	eS	Z	05 56				
	e	Z	06 07				

5.2 NZ

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV	eL	NE	06				
	GP	eP	N 23 05 39				
	eS	N	07 05				
	KM	eS	X 23 07 18				
	e	X	22				
	CB	eS	E 23 07 57				
	WN	eL	Z 23 11				
	Epicentre		23 03.7	49S 164E N NZ(D)			
21	WN	eL	Z 07 30				
	M	ZE	32				
	RX	M	E 07 32				
	Epicentre		07 07 42.3	49.8S 114.8W 33km	0.7 19	USCGS	5.6
21	ON	eP	E 19 43 42				
	e(S)	E	46 21				
	KP	P	Z 19 43 56				
	TA	e(P)	Z 19 44 10				
	TU	e	Z 19 44 38				
	KM	e(S)	X 19 48 02				
	GP	eS	N 19 48 16				
	Epicentre		19 40 15.7	21.1S 179.2W 626km		USCGS	
22	SU	e(P)	N 07 39 40				
	e	N	43 04				
	M	N	46				
	KP	eP	Z 07 42 06 u				
	e	Z	15				
	e	Z	56				
	e	Z	43 20				
	TU	eP	Z 07 42 06				
	e	Z	24				
	e	Z	39				
	KM	e	X 07 43 06				
	WN	e	Z 07 47 09				
	eL	Z	50				
	M	Z	51				
	RX	eL	E 07 50				
	eL	ZN	53				
	M	E	54				
	Epicentre		07 37 25.8	18.2S 167.6E 33km		USCGS	
22	KP	eP	Z 08 40 50				
	TU	eP	Z 08 40 53				
	TA	e(P)	Z 08 41 04				
	Epicentre		08 37 12.6	20.6S 178.5W 605km		USCGS	
22	RX	e	E 10 49 17				
	eL	E	56				
	M	E	58				
	WN	eL	Z 10 55				
	M	Z	57				
22	TU	e?	Z 17 07 14				
	eS	Z	09 26				
	KP	eP	Z 17 07 43				
	WN	e?	Z 17 08 19				
	eS	NE	10 22				
	CB	eS	E 17 10 35				
	e	E	37				
	KM	e	X 17 11 21				
	GP	eS	N 17 11 23				
22	KP	eP	Z 20 35 12				
	e	Z	19				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
	TU	e(P)	Z 20 35 17				
	eS	Z	36 45				
	e	Z	53				
	e	Z	37 13				
	e(P)	Z	20 35 38				
	TA	e?	E 20 36 22				
	W	e?	25				
	e	NE	37 52				
	e(S)	ZH	55				
	eL	Z	40				
	IP	e(P)	Z 20 36 31				
	eS	N	38 58				
	e	N	39 06				
	e	N	15				
	HU	e(L)	N 20 39 50				
	EX	eL	E 20 42				
	eL	N	44				
	Epicentre		20 33 25.6				
							1.21
							30.2S 178.6W 298km USCGS
							Charters Towers, Brisbane readings used to determine epicentre.
							Felt: Raoul Island MM3.
	SU	e	N 23 59 28				
	KP	e(P)	Z 24 00 49				
	W	e?	Z 24 01 52				
	e(L)	Z	04				
	M	Z	06				
	EX	eL	E 24 06				
	M	E	08				
	Epicentre		23 55 28.3				
							24.1S 176.8W 391km USCGS
	IP	e(P)	Z 00 43 28				
	e	Z	37				
	W	ePS	Z 00 56				
	eSS	Z	01 02				
	eL	Z	14				
	M	Z	15				
	M	Z	17				
	EX	ePS	E 00 56 12				
	eSS	E	01 01 44				
	eL	E	15				
	M	E	18				
	Epicentre		00 30 04.5				
							15.1S 75.3W 33km 1.5 19 USCGS 5.8
	W	e(P)	N 06 44 30				
	e(S)	N	50				
	KP	e(P)	Z 06 48 35				
	e	Z	43				
	W	e(P)	N 06 44 30				
	e(S)	N	50				
	KP	e(P)	Z 06 48 35				
	e	Z	43				
	IP	eP	Z 07 21 27				
	Epicentre		07 16 37.7				
							17.7S 167.9E 33km USCGS
	W	eP	Z 10 50 08				
	TU	eP	Z 10 50 20				
	Epicentre		10 41 57.6				
							4.0S 142.3E 100km USCGS
	W	eP	N 23 07 15				
	W	eP	E 23 09 00				
	IP	Z	23 09 13 u				
	e	Z	48				
	e	Z	10 36				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV		eS	Z 12 05				
		e	Z 20 53				
TU	eP	Z	23 09 13				
	e(S)	Z	12 01				
	e	Z	12 10				
	e	Z	16 00				
	e(ScS)	Z	19 37				
TA	e(P)	Z	23 09 27				
WN	eP	Z	23 09 41				
	e(S)	E	12 44				
	e	ZN	47				
	e	ZNE	50				
GP	eP	N	23 10 06				
	eS	N	13 30				
Epicentre			23 05 47.4	21.5S	179.3W	609km	USCGS
24	SU	e(L)	N 08 13				
	KP	e(P)	Z 08 14 50				
	WN	eL	ZE 08 22				
	RX	eL	E 08 24				
	Epicentre		08 10 10.3	18.5S	175.4W	33km	USCGS
24	ON	eP	E 10 36 48				
	eS	E	39 03				
	KP	eP	Z 10 37 03				
	e	Z	35				
	e(pP)	Z	38 46				
	e(S)	Z	39 35				
	e	Z	41				
	SU	S	N 10 37 15				
	e	N	38 05				
	TU	e(P)	Z 10 37 16				
	eS	Z	39 43				
	e	Z	40 07				
	TA	eP	Z 10 37 21				
	WN	eP	Z 10 37 38				
	e	N	40 29				
	e(S)	ZNE	31				
	GP	e(S)	N 10 41 21				
	Epicentre		10 34 07.7	24.8S	180.0	500km	USCGS
24	ON	eP	E 10 45 21				
	KP	eP	Z 10 45 32				
	e	Z	59				
	e	Z	46 38				
	TU	eP	Z 10 45 37				
	e	Z	55				
	eS	Z	47 00				
	e	Z	11				
	TA	eP	Z 10 45 50				
	WN	eS	NE 10 47 58				
	GP	eS	N 10 48 57				
24	ON	eP	E 14 05 21				
	e	E	06 41				
	KP	P	Z 14 05 31				
	e	Z	07 24				
	TU	eP	Z 14 05 32				
	eS	Z	06 56				
	e	Z	07 03				
	TA	eP	Z 14 05 49				
24	KP	P	Z 16 05 09 u				
	WN	eL	Z 16 36				
	Epicentre		15 52 20.1	49.5N	155.8E	85km	USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
		eL	Z 17 25				
		N	Z 30				
	Epicentre		16 19 44.9	9.8N	40.7W	33km	USCGS
		eP	Z 17 31 00				
		e(PcP)	Z 32 54				
	TU	eP	Z 17 31 06				
	e	Z	16				
	NN	eL	Z 17 44				
	N	Z	46				
	N	Z	48				
	NN	e(L)	NE 17 54				
	Epicentre		17 22 59.5	2.5S	148.9E	32km	USCGS
		eP	Z 10 02 15				
	TU	e(P)	Z 10 02 25				
	NN	eL	Z 10 24				
	Epicentre		09 51 22.8	10.6N	125.2E	47km	USCGS
		e	Z 13 39 26				
		28					
	Epicentre		13 28 33.7	42.2N	144.4E	33km	USCGS
		e	Z 16 02 26				
	KP	e(P)	Z 16 02 29				
	e	Z	37				
	e	Z	04 05				
	e	Z	17				
	TU	eP	Z 16 02 32				
	e(S)	Z	05 18				
	NN	eP	Z 16 03 11				
	e(S)	NE	06 22				
	e	NE	33				
	NN	e(P)	N 16 03 43				
	eS	N	07 25				
	NN	e(S)	E 16 06 39				
	NN	e(S)	X 16 07 33				
	NN	eL	NE 16 10				
	N	E	13				
	Epicentre		15 58 46.2	23.8S	175.8W	19km	5.5 20
							5.6
		e(P)	N 18 00 48				
	eS?	N	02 30				
	eL	N	03				
	NN	eP	Z 07 04 51				
	e	Z	05 06				
	e	Z	31				
	NN	eP	Z 07 04 54				
	NN	eP	Z 07 04 59 u				
	e	Z	05 41				
	Epicentre		06 52 57.8	25.1N	122.9E	148km	USCGS
		eP?	Z 12 18 45				
	e	Z	45				
	e	Z	58				
	TU	e(P)	Z 12 19 07				
	Epicentre		12 07 12.7	14.9N	119.9E	35km	USCGS
		eP?	Z 17 00 20				
	e	Z	32				
	NN	eP	Z 17 00 29				
	NN	eL	ZNE 17 20				
	NN	eL	NE 17 23				
	Epicentre		16 50 27.7	12.2N	143.8E	33km	USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
NOV 27	SU	eL	N 19 15				
28	KP	P	Z 02 45 40 d				
	TU	eP	Z 02 45 49				
	SU	e(L)	N 03 01				
	RX	eL	E 03 07				
	Epicentre		02 35 48.8	12.1N 143.7E 33km			
28	SU	eL	N 09 16				
	WN	eL	Z 09 18				
	RX	eL	E 09 20				
	M		E 21				
				1.5 20			
28	ON	e(P)	E 17 47 09				
	TU	eP	Z 17 47 13				
	eS		Z 48 38				
	KP	eP	Z 17 47 16				
	CT	e(P)	Z 17 47 24				
	e(S)		Z 49 02				
	WN	eS	NE 17 49 44				
	GP	eS	N 17 50 48				
	Epicentre		17 45 22	Kermadec Islands region NZ			
29	KP	e(P)	Z 04 00 54				
	e		Z 01 25				
	TU	eP?	Z 04 01 00				
	e		Z 15				
	eS		Z 02 48				
	ON	e?	E 04 01 04				
	CT	e(P)	Z 04 01 21				
	e(S)		Z 03 12				
	WN	eS	NE 04 03 54				
	CB	eS	E 04 04 10				
	GP	eS	N 04 04 56				
	Epicentre		03 58 32.1	29.4S 177.9W 140km			
29	KP	P	Z 04 50 42				
	TU	eP	Z 04 50 43				
	WN	eP?	Z 04 51 13				
29	ON	eP	E 07 33 37				
	TU	eP	Z 07 33 40				
	eS		Z 36 01				
	KP	eP	Z 07 33 43				
	e		Z 54				
	GP	e?	N 07 35 01				
	eS		N 38 10				
	WN	eS	NE 07 37 05				
	eL		Z 39				
	Epicentre		07 30 39	Kermadec Islands region NZ			
29	SU	e(P)	N 09 05 43				
	e		N 07 14				
	ON	eP?	E 09 07 45				
	KP	eP	Z 09 07 53				
	e		Z 11 16				
	TU	e(P)	Z 09 07 54				
	e		Z 08 12				
	e(S)		Z 10 55				
	WN	eP?	Z 09 08 28				
	e		Z 32				
	eS		NE 12 04				
	eL		ZN 14				
	KM	eS	X 09 13 01				
	GP	e(S)	N 09 13 05				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
29	EX	eL	NE 09 17				
	Epicentre		09 03 51.1	22.3S 175.9W 33km			USCGS
29	TU	e?	Z 12 54 10				
	e?		Z 32				
	TA	eP?	Z 12 54 23				
	eP?		Z 38				
	Epicentre		12 44 32.8	13.9N 145.4E 100km			USCGS
29	SU	e?	N 19 09 16				
	e		Z 29				
	i(L)		N 10 40 n				
	ON	eP	E 19 11 12				
	e		Z 14 43				
	AK	e(P)	Z 19 11 26 u				
	e(P)		N 15 15				
	TU	e(P)	Z 19 11 39				
	TA	e(P)	Z 19 11 40				
	e		Z 13 05				
	NI	eP	Z 19 11 56				
	eS		N 16 16				
	M		E 19				
	M		Z 20				
	EN	e(P)	X 19 12 03				
	e		X 14				
	GP	e(P)	N 19 12 15				
	eG		Z 19 17 16				
	eL		NE 19				
	M		E 22				
	Epicentre		19 06 37.6	17.3S 168.5E 33km	70 19		USCGS 6.3
29	EP	eP	Z 19 18 08				
	e		Z 16				
	TA	e?	Z 19 18 12				
	TI	e(P)	Z 19 18 31				
	e?		Z 19 18 57				
	NI	eL	NE 04 59				
	NI	eL	E 16 11				
	NI	eP	Z 17 03 35				
	spP		Z 46				
	TU	eP	Z 17 03 40				
	NI	e?	Z 17 03 43				
	eL		Z 26				
	NI	eL	E 17 26				
	Epicentre		16 53 24.6	3.2N 127.1E 58km			USCGS
	NI	eP	Z 21 22 20				
	Epicentre		21 11 30.0	10.8N 124.7E 64km			USCGS
	NI	eL	ZE 22 36				
	M		ZE 38				
	NI	eL	ZNE 22 39				
	M		E 41				
	Epicentre		21 51 22.9	17.4N 99.6W 51km	2 21		USCGS 5.9
	NI	e?	Z 23 15 34				
	EP	eP	Z 23 15 40				
	e		Z 44				
	NI	e(p)	Z 23 15 56				
	Epicentre		23 07 51.6	5.5S 145.9E 79km			USCGS

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
DEC 1	KP	eP	Z 02 03 21				
	e	Z	38				
X	WN	eL	Z 02 34				
	Epicentre		01 50 20.4	52.4N 170.1W 38km	USCGS		
1	ON	eP	E 04 19 18				
	e	E	24				
	KP	P	Z 04 19 25				
	e	Z	35				
SU	P	N	Z 04 20 07				
	WN	eP	Z 04 20 14				
	S	Z	22 17				
	eL	E	23.4				
	eL	Z	24				
TU	e(P)	Z	04 20 20				
	eS	Z	22 09				
CB	eS	E	04 22 33				
RX	eL	ZNE	04 27				
Epicentre			04 16 59.6	29.7S 177.7W 52km	USCGS		
1	KP	P	Z 13 45 07				
	Epicentre		13 32 24.8	30.8S 71.3W 68km	USCGS		
2	TU	eS	Z 16 17 46				
	WN	eL	Z 16 25				
	Epicentre		16 12 53.4	18.9S 168.5E 33km	USCGS		
3	TU	P	Z 12 55 28				
	WN	P	ZNE 12 55 45.5 u				
	eS	NE	59 50				
	Epicentre		12 50 36.9	12.9S 169.2E 632km	USCGS		
4	WN	eL	Z 10 55				
	Epicentre		10 34 27.8	6.1S 149.9E 83km	USCGS		
4	ON	eP	E 16 45 03				
	TU	eP	Z 16 45 16				
X	RX	eL	NE 16 54				
		eLr	Z 57				
	M ₁	NE	58				
	M ₂	ZNE	17 01				
	Epicentre		16 40 06.0	16.5S 172.8W 33km	USCGS		
4	TU	eP	Z 19 41 21				
	Epicentre		19 31 31.5	4.9N 122.8E 627km	USCGS		
5	RX	eL	NE 01 38				
	Epicentre		01 16 06.3	10.9S 161.6E 33km	USCGS		
5	CT	eP	Z 12 28 14				
	WN	P	Z 12 28 33				
	Epicentre		12 24 32.6	20.8S 178.9W 591km	USCGS		
7	ON	eP	E 12 57 22				
	TU	eP	Z 12 57 34	*			
	e	Z	38				
	eS	Z	59 09				
CT	eP	Z	12 57 42				
	WN	eP	Z 12 58 05				
	eS	ZNE	13 00 11				
CB	eS	E	13 00 22				
KM	eS	X	13 01 00				
GP	eS	N	13 01 09				
Epicentre			12 55 34.6	30.7S 179.3W 368km	USCGS		

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
DEC 7	ON	P	E 14 14 26				
	TU	IP	Z 14 14 43.0 u				
	CT	eP	Z 16 16				
	WN	eS	Z 23 55				
	TU	P	Z 14 14 21				
	WN	IP	ZNE 14 14 49.4 u				
	CT	IP	ZNE 16 23 00.1				
	WN	pP	ZNE 24 00.1				
	WN	S	NE 26 32				
	WN	SS	Z 14 15 00				
	WN	ep	NE 24 22				
	WN	S	Z 27 14				
	Epicentre		14 03 37.0	29.2N 139.2E 411km	USCGS		
	CT	P	Z 18 13 46				
	WN	pP	Z 14 11				
	Epicentre		18 00 41.1	23.6S 69.4W 100km	USCGS		
	WN	IP	N 18 20 40 s				
	ON	P	E 18 23 36				
	WN	IP	Z 18 23 52				
	WN	P	Z 18 23 57.1				
	WN	eS	NE 29 04				
	WN	Lq	NE 31.0				
	WN	Lr	N 32.5				
	WN	EP	E 18 33.6				
	WN	elr	NE 35.7				
	WN	ZNE	37				
	Epicentre		18 18 29.1	15.2S 173.7W 33km	USCGS		
	CT	ep	Z 22 21 45				
	WN	eP	ZNE 21 39 39				
		pP	ZNE 41 46				
		SKS	ZNE 49 16				
	CT	P	Z 21 39 42.8				
		pP	Z 41 50				
		SKS	Z 49 26				
		PKKP	Z 56 32				
		EP	Z 21 39 49				
		pP	Z 41 53				
		PKKP	Z 56 33				
		EP	Z 21 41 49				
		SKS	NE 49 18				
		e	NE 56 25				
	Epicentre		21 27 22.2	25.8S 63.4N 620km	USCGS		
	WN	P	Z 23 07 49.5				
	WN	P	Z 23 07 53.7				
	WN	P	ZNE 23 08 04				
		el	Z 36				
	Epicentre		22 55 01.2	50.5N 176.8W 33km	USCGS		
	CT	ep	Z 14 20 02				
		s	Z 23 15				
	Epicentre		14 16 05.2	22.4S 177.0W 204km	USCGS		
	CT	ep	Z 17 46 43				
	Epicentre		17 37 46.9	7.1S 129.1E 194km	USCGS		
	WN	e	N 20 58 32				
	WN	ep	E 20 58 55				
	WN	P	Z 20 59 07				

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Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
DEC	TU	eP	Z 20 59 10				
	CT	eP	Z 20 59 17				
	eS	Z	21 03 31				
	WN	eL	Z 21 09				
	Epicentre		20 54 13.7	17.7S 173.6W 60km			
10	RX	eSS	E 06 28 12				
		eLq	NE 32.0				
	Epicentre		06 11 56.2	8.4S 157.4E 39km			
10	SU	P	N 16 58 31				
X		eS	N 17 00 35				
	CT	eP	Z 16 59 17				
	WN	eP	Z 16 59 39½				
		S	ZNE 17 02 18				
		Lq	NE 03.5				
		Lr	Z 04.1				
	RX	eLq	NE 17 06				
		eLr	Z 08½				
	Epicentre		16 56 04.5	27.2S 176.8W 88km			
10	KP	P	Z 18 57 58				
	TU	P	Z 18 58 02				
		eS	Z 33				
	CT	P	Z 18 58 02.8				
	i	Z	03.8				
	eS	Z	34				
	TA	eP	Z 18 58 07				
	eS	Z	42				
	WN	eP	Z 18 58 24				
		S	ZNE 59 10½				
	CB	eP	E 18 58 26½				
	e	E	28				
		S	E 59 17				
	GP	S	N 19 00 04½				
	Epicentre		18 57 22	37.8S 176.2E 270km	NZ(C)	5.2 M	
11	ON	P	E 13 58 06				
	CT	P	Z 13 58 27				
	Epicentre		13 54 36.3	19.7S 178.4W 630km			
11	CT	P	Z 16 52 26				
11	SU	eP	N 17 54 00				
	TU	P	Z 17 55 19				
	eS	Z	57 42				
	CT	P	Z 17 55 28½				
	WN	P	ZNE 17 55 50½				
		S	ZNE 58 45½				
	Epicentre		17 51 58.9	24.8S 177.6W 98km			
11	CT	P	Z 18 18 08				
	Epicentre		18 09 58.6	3.9S 143.6E 33km			
11	KP	P	Z 23 43 07½				
	CT	eP	Z 23 43 12				
	TU	eP	Z 23 43 17				
	Epicentre		23 32 57.0	3.5N 126.9E 63km			
12	CT	P	Z 10 15 46				
12	KP	P	Z 10 16 05				
	CT	P	Z 10 16 14				
	TU	eP	Z 10 16 18				
	WN	eP	Z 10 16 24				

NEW ZEALAND STATIONS AND SUVA 1962

Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
TK	P	E 10 16 09				
TK	P	Z 10 16 25				
TK	P	Z 10 16 34				
TK	S	Z 22 41				
TK	P	Z 10 16 39				
TK	P	Z 10 16 46				
TK	S	Z 22 16				
TK	S	Z 22 58				
(TK)	NE	58				
TK	SS	ZNE 25 35				
TK	LR	ZN 27				
TK	S	N 10 18 53				
TK	S	NE 22 58				
TK	S	23 30				
TK	S	E 26 47				
Epicentre		10 08 48.5	4.8S 153.8E 94km			USCGS
TK	CT	P	Z 14 08 35½			
Epicentre			13 56 32.4	60.3S 25.9W 33km		USCGS
TK	CT	eP	Z 15 54 50			
Epicentre			15 50 08.0	18.6S 168.6E 102km		USCGS
TK	KP	P	Z 23 08 58			
X	TU	eP	Z 23 09 04			
Epicentre			23 56 45.8	4.6N 96.5E 138km		USCGS
TK	KP	eP	Z 02 42 06			
Epicentre			02 37 56.4	17.3S 178.9W 509km		USCGS
TK	CT	eP	Z 14 30 19			
Epicentre			14 22 35.2	4.6S 152.1E 53km		USCGS
TK	KP	eP	Z 02 25 23			
Epicentre			02 15 49.7	4.2S 127.6E 33km		USCGS
TK	KP	P	Z 11 10 03			
	pP	Z	11 31			
	CT	P	Z 11 10 07			
	pP	Z	37½			
TK	IP	ZNE 11 10 08.4				
	pP	ZNE 11 37				
	S	NE 18 01				
	e	N 19 21				
	eL	ZNE 25.5				
Epicentre			11 00 16.0	2.1N 122.9E 393km		USCGS
TK	KP	P	Z 03 05 07 u			
	CT	IP	Z 03 05 14 d			
	NN	IP	ZNE 03 05 20.7			
Epicentre			02 54 47.1	21.6N 143.1E 306km		USCGS
TK	NP	eL	Z 06 10			
X	TK	eL	NE 07 26½			
	TK	L	ZNE 07 30.0			
TK	NP	eL	ZNE 08 16.5			
Epicentre			07 48 36.6	35.2S 104.8W 33km		USCGS
TK	KP	eP	Z 10 36 40			
	CT	eP	Z 10 36 41			
	eG	Z	38 54			
	TK	eP	ZNE 10 37 07			
	S	ZNE 39 32				
	eL	Z	42			

NEW ZEALAND SEISMOLOGICAL REPORT

Date	Stn	Phase	h	m	s	Az	Tz	An	Tn	As	Te	Mag
DEC	SU	S N	10	38	35							
	Epicentre		10	33	58.4			28.3S	178.2W	214km	Felt: Raoul Island.	USCGS
18	KP	P Z	11	33	07							
	CT	eP Z	11	33	17							
		eS Z		35	50							
	Epicentre		11	30	07.3			24.7S	180.0	486km		USCGS
18	KP	eP Z	21	00	48			18.4S	176.9W	308km		USCGS
	Epicentre		20	56	32.5							
19	CT	eP Z	11	03	55							
		S Z		05	47							
	WN	S ZNE	11	06	25							
	Epicentre		11	01	39.8			31.2S	178.1W	28km		USCGS
19	CT	eP Z	13	03	43							
		e Z		04	04							
	WN	eS Z	13	10	1							
		eL ZNE		13	.2							
	RX	eS NE	13	11	00							
		eSS NE		14	00							
		eL NE		16	1							
	Epicentre		12	56	19.7			4.7S	154.0E	98km		USCGS
19	SU	e N	20	18	.1							
	CT	P Z	20	19	19							
		i Z			21							
		eS Z		22	09							
	WN	P ZNE	20	20	39							
	Epicentre		20	15	58.8			23.9S	179.4W	451km		USCGS
20	KP	eP Z	08	37	08							
	CT	eP Z	08	37	17							
	WN	eL Z	08	46								
	RX	eL ZNE	08	48								
	Epicentre		08	32	37.3			20.0S	174.1W	33km		USCGS
20	SU	eP N	08	49	00							
		iS N		50	13 n							
	ON	P E	08	50	18½							
		S E		52	40							
	KP	P Z	08	50	35							
		S Z		53	15							
	CT	P Z	08	50	45.5							
		S Z		53	30							
	WN	P ZNE	08	51	05							
		S ZNE		54	02							
	Epicentre		08	47	23.3			23.4S	179.4E	512km		USCGS
20	RX	eP N	18	24	52							
		eL E		28	.1							
		eL N		28	.8							
		eLr Z		29	.2							
	CT	eP Z	18	26	10							
	WN	eL ZNE	18	31	.1							
	Epicentre		18	20	55.8			61.8S	161.2E	29km		USCGS
21	WN	P Z	00	54	43							
		e E	01	04	07							
		L Z			14							
		L NE			17.5							
	CT	P Z	00	54	45							
	KP	iP Z	00	54	46 u							

ISLAND STATIONS AND SUVA 1962

	Sta	Phase	h	m	s	Az	Tz	An	Tn	As	Te	Mag
XX	eG	NE	01	02	38							
	e	E		03	27							
	eL	ZE		15								
Epicentre			00	44	19.7			9.0S	112.4E	64km		USCGS
XX	eL	Z	07	20								
	Epicentre		06	31	42.4			52.6N	168.6W	39km		USCGS
XX	eP	Z	06	50	33							
	eP	Z	06	50	41							
	Epicentre		06	45	26.5			17.0S	173.4W	53km		USCGS
XX	eP	Z	08	55	50							
	eP	Z	08	56	08							
	e	ZNE		57.3								
	SKS	ZN	09	06	35							
	S	E		07	07							
	PS	N		08	20							
	Lg	NE		22.1								
	Lr	ZN		26.0								
XX	SKS	N	09	07	05							
	eG	E		08	01							
Epicentre			08	42	48.3			52.4N	168.5W	33km		USCGS
XX	CT	P	Z	09	45	55						
	Epicentre		09	33	15.5			42.4N	142.3E	27km		USCGS
XX	CT	eP	Z	18	32	17						
	eP	Z	18	32	19							
	Epicentre		18	20	44.7			15.3N	121.7E	55km		USCGS
XX	SP	P	N	00	54	34	n					
	EP	P	Z	00	56	14	$\frac{1}{2}$					
	eL	Z	01	02	$\frac{1}{2}$							
	CT	P	Z	00	56	30						
	SP	ZNE	00	56	52	.2	us					
	1	Z		57	00	.5						
	1	N		05	.2							
	Lg	NE	01	00	.4							
	Lr	Z		00	.5							
XX	eP	ZNE	00	57	34							
	IS	NE	01	01	48							
	Lg	E		02	.9							
	Lr	N		04	.7							
	Lr	Z		05	.7							
	Z	ZNE		07								
Epicentre			00	52	23.4			22.0S	170.1E	33km		USCGS
XX	SP	eP	Z	01	16	54						
	CT	eP	Z	01	17	10						
	SP	Z	01	17	27	$\frac{1}{2}$						
	Epicentre		01	13	02.6			22.0S	170.1E	33km		USCGS
XX	SP	P	Z	01	32	43						
	CT	eP	Z	01	32	56						
	SP	ZNE	01	33	19							
	Epicentre		01	28	48.9			21.9S	170.1E	33km		USCGS
XX	SP	P	Z	02	10	15						
	CT	eP	Z	02	10	16	$\frac{1}{2}$					
	SP	ZNE	02	30	.4							
	Epicentre		01	59	50.3			9.2S	112.4E	69km		USCGS
XX	eSKS	Z	15	44	24							
	ePKKP	Z		50	28							



NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
DEC	eLq	E	16 01				
	eLr	Z	04				
RX	eSKS	N	15 44 44				
	eS	E	45 40				
	eL	N	16 07				
Epicentre			15 20 31.0	52.5N 168.8W 47km	USCGS		
23	WN	eL	E 00 12				
	eL	ZN	14				
Epicentre			00 02 09	22.4S 170.5E	NOUMEA		
23	KP	eP	Z 03 49 57				
SU	eL	N	03 50.8				
WN	eLq	E	03 54.4				
	eLr	ZN	55.8				
Epicentre			03 45 46	22.4S 170.5E	USCGS		
23	TU	ePn	Z 15 35 09				
i		Z	10				
e		Z	27				
eSn		Z	34				
KP	Pn	Z	15 35 26				
eP*	Z	32					
CT	Pn	Z	15 35 31				
eP*	Z	40					
TO	eP	Y	15 35 33				
eSn	Y	36 10					
eS*	Y	21					
ON	ePn	E	15 35 45				
i	E	47					
eSn	E	36 33					
WN	Pn	ZNE	15 35 52				
eP*	ZNE	36 05					
iSn	NE	48					
CB	ePn	E	15 36 08				
Sn	E	37 14					
GP	eP	N	15 36 32				
S	N	37 52					
KM	eSn	X	15 37 51				
Epicentre			15 34 39	37.7S 179.2E S	NZ(C) 5.3 M		
				Charters Towers, Brisbane, Tromsoe, Sodankyla, Umea and Nurmijarvi readings used to determine epicentre.			
				Felt: Tokomaru Bay MM3.			
23	KP	iP	Z 23 35 21.0 u				
CT	P	Z	23 35 28.9 u				
WN	P	ZNE	23 35 38.6				
Epicentre			23 27 59.5	5.1S 151.2E 105km	USCGS		
24	WN	eP	Z 00 35 54				
CT	P	Z	00 36 04				
KP	P	Z	00 36 10 $\frac{1}{2}$				
Epicentre			00 23 53.1	59.1S 26.0W 33km	USCGS		
24	WN	eL	ZN 11 51.3				
Epicentre			11 40 46.7	22.0S 170.4E 33km	USCGS		
24	WN	eL	Z 12 23.5				
26	KP	P	Z 22 38 31				
WN	SKS	ZNE	22 49 07				
S	ZNE	47					
PS	ZNE	51 10					
SSS	ZN	23 00 19					

NEW ZEALAND STATIONS AND SUVA 1962

Stn	Phase	h m s	Az Tz	Ae Te	An Tn	Mag
eL	E	05.5				
Lr	ZNE	09.0				
SKS	NE	22 49 30				
S	ZNE	50 30				
PS	N	51 55				
eSS	NE	57 17				
eL	N	23 12				
eL	E	13				
eL	Z	15				
Epicentre		22 25 15.5	53.9N 168.7E 33km		USCGS	
% WS L	Z	24 30.5				
Epicentre		23 46 14.7	54.0N 168.8E 33km		USCGS	
% KP P	Z	02 30 09				
% CT eP	Z	02 30 09 $\frac{1}{2}$				
% eG	Z	31 41				
% CT P	Z	02 30 19				
% eG	Z	32 02				
% CT eP	Y	02 30 20				
% eG	Y	31 57				
% eG	Y	32 00				
% eP	ZNE	02 30 42				
% S	NE	32 41				
% eP	N	02 31 16				
% eG	N	33 39				
Epicentre		02 28 10	32S 178W N?		NZ(D)	5.9 NZ
% KP P	Z	04 19 04				
% e	Z	44				
Epicentre		04 13 54.7	14.8S 173.2W 54km		USCGS	
% CT IP	Z	14 10 08.4 u				
% P	Z	14 10 14				
Epicentre		14 02 02.1	4.9S 145.1E 35km		USCGS	
% WS eL	ZN	18 59.1				
% TU P	Z	04 22 24				
% e	Z	36				
% eL	Z	04 42				
Epicentre		04 12 09.0	2.4N 127.1E 33km		USCGS	
% WS eP	Z	10 54 22				
% eSKS	Z	11 04 44				
S	ZN	05 32				
PS	Z	06 44				
SSS	Z	15 44				
Lr	ZNE	24.5				
CT eP	Z	10 54 24				
% e	Z	34				
% eSKS	E	11 05 03				
% eG	N	47				
% eSSS	NE	12 28				
% eL	ZNE	25				
Epicentre		10 41 04.1	20.0S 69.9W 46km		USCGS	
% TU eP	Z	14 49 39				
% e	Z	51 11				
% S	Z	17				
% CT eP	Z	14 49 54				
% I	Z	50 18				
% P	N	14 49 55				
% eL	N	55.0				
% eP	ZNE	14 50 24				

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag
DEC	eS	ZNE	52 21				
	eL	ZNE	53.3				
RX	eP	Z	14 51 38				
	eL	NE	56.3				
	eL	Z	57½				
Epicentre			14 47 41.4	31.2S	177.9W	43km	USCGS
29	TU	eP	Z	15 22 40			
	S	Z	24 16				
CT	eS	Z	15 24 46				
WN	S	ZNE	15 25 21				
Epicentre			15 20 42.3	31.4S	177.6W	41km	USCGS
29	TU	eP	Z	18 15 53			
	S	Z	17 29				
CT	eP	Z	18 16 11				
	e	Z	17 33				
	e	Z	45				
WN	S	ZNE	18 18 36				
	eL	ZNE	20 08				
Epicentre			18 13 59.3	31.6S	177.8W	33km	USCGS
29	TU	eS	Z	18 18 22			
WN	S	ZNE	18 19 28				
29	TU	eP	Z	18 21 10			
	S	Z	23 12½				
CT	S	Z	18 23 43				
WN	S	ZNE	18 24 20				
	L	Z	26.0				
	M	ZNE	28				
Epicentre			18 19 40.7	31.5S	177.6W	33km	USCGS
29	TU	eP	Z	18 25 26			
	e	Z	26 45				
	S	Z	53				
CT	eS	Z	18 27 22				
WN	S	ZNE	18 28 00				
Epicentre			18 23.3	31½S	177½W		BCIS
29	TU	eS	Z	18 29 37			
CT	eS	Z	18 30 10				
WN	S	ZNE	18 30 45				
29	TU	eP	Z	19 42 41			
	S	Z	44 06				
CT	eP	Z	19 42 59				
	eS	Z	44 29				
WN	S	ZNE	19 45 13				
	eL	Z	47½				
Epicentre			19 40 34	31½S	177½W		BCIS
30	TU	P	Z	02 03 10			
CT	eP	Z	02 03 10				
Epicentre			01 57 43.7	14.9S	166.6E	49km	USCGS
30	CT	eP	Z	13 26 11			
	e	Z	20				
	eS	Z	28 22				
TU	eS	Z	13 28 03				
WN	S	NE	13 29 10				
Epicentre			13 25 09.8	28.2S	175.8W	47km	USCGS
30	CT	eP	Z	17 51 36			
Epicentre			17 47 15.4	21.1S	169.3E	71km	USCGS

NEW ZEALAND STATIONS AND SUVA 1962

Stn	Phase	h m s	Az Tz	An Tn	Ae Te	Mag	
WZ	P	Z	18 23 44				
WZ	eP	Z	24 05				
WZ	eP	Z	18 23 50				
WZ	e	Z	24 07				
WZ	eP	Z	18 23 50				
WZ	e	Z	24 30				
WZ	eP	Z	25 34				
WZ	S	ZNE	29 53				
WZ	sS	NE	30 28				
WZ	e(SS)	ZNE	33 12				
WZ	eL	Z	35 46				
WZ	S	NE	18 30 20				
WZ	sS	NE	31 02				
WZ	eSS	NE	33 52				
WZ	eL	NE	36.8				
Epicentre			18 16 21.4	4.7S	153.7E	116km	USCGS
30 CT	eP	Z	22 53 34				
	eP	Z	46				
	eS	Z	56 13				
Epicentre			22 50 25.9	27.1S	176.5W	49km	USCGS
WZ	eP	ZNE	11 13 02				
	Lq	NE	34.7				
	Lr	ZE	38.8				
CT	P	Z	11 13 04				
WZ	eL	E	11 38				
Epicentre			11 00 59.5	0.1S	99.3E	33km	USCGS
30 CT	eP	Z	21 47 43				
	eP	Z	50				
	S	Z	49 52				
WZ	eS	Y	21 49 48				
WZ	S	ZNE	21 50 30				
	I	ZNE	42				
GP	S	N	21 51 34				
Epicentre			21 45 04.7	28.3S	178.4W	239km	USCGS
WZ	eP	N	19 42 08				
	eS	N	43 50				
	eL	N	44 20				
GP	P	Z	19 44 05				
WZ	P	ZNE	19 44 28				
	S	ZNE	48 06				
	L	ZNE	48.8				
EZ	eP	Z	19 45 12				
	eP	N	16				
	sS	N	49 26				
	eLq	N	51 30				
	eLr	ZR	52.7				
Epicentre			19 40 10.5	22.7S	171.4E	39km	USCGS

MANU AND APIA 1962

Date	Stn	Phase	h	m	s	Az Tz		An Tn		Br
						Az	Tz	An	Tn	
26 8	AF	eP	ZN	05	45	45	1.4	1	1.1	1
		es	ZN	47	42		1.8	1	2.1	1
		et	ZN	55	27		0.5	1	0.5	1
5	AF	eP	Z	17	10	54				
9	AF	eP	ZN	12	51	59				
		eL	ZN	13	12	.2				
9	AF	eP	ZN	23	58	46				
		es	ZN	00	00	18				
11	AF	eP	Z	23	15	53				
		es	Z	16	44					
13	AF	1P	ZN	03	06	51	d		1.2	1
		es	ZN	08	21				1.1	1
15	AF	eP	Z	11	10	44				
15	AF	1P	ZN	11	41	44	u		6.5	1
		es	ZN	42	04				62	1
14	AF	1P	Z	13	45	10	u			
15	AF	1P	Z	18	28	53	d			
16	AF	eP	ZN	11	39	45			1.3	1
		es	ZN	42	40				1.1	1
		eL	ZN	43	05				2.8	28
		et	ZN	53					1	1
17	AF	1P	Z	11	32	40	u			
		S	ZN	34	22				2.2	1
17	AF	eP	Z	15	39	47				
17	AF	eP	Z	15	53	44				
18	AF	1P	Z	08	18	50	d			
		es	ZN	20	35				0.9	1
18	AF	P	Z	16	00	30				
18	AF	e(P)	ZN	16	00	39			0.6	1
18	AF	eP	ZN	16	03	32				
19	AF	eP	ZN	13	24	35			0.7	1
		es	ZN	26	00				0.8	1
		et	ZN	32	45				0.7	1
20	AF	P	ZN	20	21	37			0.5	1
21	AF	1P	ZN	12	53	46	d		1.4	1
		S	ZN	55	21				1.5	1
21	AF	1P	ZN	04	50	55	u		0.7	1
25	AF	eP	ZN	01	55	38			0.8	1
		es	N	02	01	12			0.8	20
		e(L)	Z	01	16					
		el	Z	02	22					
25	AF	1P	ZN	10	07	53	d		0.6	1

AFIAMALU AND APIA

Readings from Apia (AA) are given only when no records from Afiamalu (AP) are available. The station at Afiamalu did not operate from July 26 until September 29. During this period the Benioff seismographs were replaced by U.S. World Standard instruments.

Amplitudes are given in millimetres, measured directly from the photographic paper records. The columns Az, Tz and An, Tn refer to the long-period Benioff instruments at Afiamalu, and the column Bn to the Wood-Anderson torsion seismograph at Apia.

Date	Stn	Phase	h	m	s	Az	Tz	An	Tn	
JAN 1	AF	eP	ZN	12	19	03	0.5	1	0.5	1
		eS	ZN	21	17		0.7	1	0.7	1
		eT	ZN	31	18		0.7	1	0.9	1
1	AF	eP	Z	15	35	14	0.4	1		
2	AF	eP	ZN	05	54	29	0.3	1	0.4	1
		eS	ZN	55	41		0.6	1	0.7	1
		eT	ZN	06	01		0.3	1	0.2	1
2	AF	eP	ZN	11	51	56	0.6	1	0.4	1
2	AF	eP	ZN	23	12	12	0.3	1	0.3	1
3	AF	eP	ZN	06	54	09	0.7	1	0.7	1
		eS	ZN	57	44		0.3	1	0.5	1
3	AF	eP	ZN	11	22	38	1.1	1	1.1	1
		eS	ZN	23	51		2.1	1	2.2	1
		eL	ZN	24.8			1.7	9	1.2	8
		eT	ZN	29	19		0.8	1	0.8	1
3	AF	eP	ZN	23	54	50	1.7	4	1.2	3
		eL	ZN	59.4			1.5	10	1.2	12
4	AF	eP	ZN	04	46	45			0.5	2
		eL	ZN	05	07	.1	1.2	25	0.8	30
4	AF	eP	ZN	07	44	20			0.6	1
5	AF	iP	ZN	00	24	57	2.1	2	1.3	2
		eL	ZN	26	06	u			41	
5	AF	iP	ZN	08	08	26			very large	
5	AF	eP	Z	11	56	05	0.4	1		
8	AF	eL	ZN	01	49	.7	2	20	1.1	20

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Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
JAN		e(S)	Z	11 30				
25	AF	eP	ZN	12 17 35				
	e	Z	ZN	18 23	0.5	1	0.5	1
	eS	Z	ZN	19 54				
25	AF	eP	Z	22 38 11				
	eS	ZN	ZN	39 41				
26	AF	iP	ZN	05 33 06 u	0.6	1	0.5	1
26	AF	iP	ZN	06 11 30	1.1	1	0.8	1
	S	ZN	ZN	13 10	1.8	1	1.9	1
	eT	ZN	17		0.7	1	0.8	1
26	AF	ePKP	Z	08 37 40	0.8	1		
26	AF	eP	Z	11 53 21				
27	AF	eP	ZN	12 03 43	0.8	1		
	eS	ZN	ZN	05 52	0.7	1	0.6	1
27	AF	eP	ZN	12 21 20				
	eS	ZN	ZN	23 15	0.6	1	0.7	1
27	AF	iP	ZN	23 55 12 d				
28	AF	iP	ZN	05 40 58 d	75	1	58	1
	eS	ZN	ZN	41 37	76	1	88	1
29	AF	eP	ZN	00 32 47				
	S	ZN	ZN	34 23	0.6	1	0.8	1
29	AF	eP	ZN	04 58 50				
	eS	ZN	ZN	05 00 25				
29	AF	i(P)	Z	11 49 17 d				
29	AF	iP	ZN	21 08 23 d	3.8	1	2.7	1
	S	ZN	ZN	43	6.0	1	13	1
29	AF	iP	Z	22 11 59 d				
	iS	ZN	ZN	13 35 d	0.6	1	0.6	1
30	AF	iP	ZN	15 02 32 d	5.5	1	3.0	1
	eS	ZN	ZN	03 24	2.0	1	1.9	1
30	AF	eP	ZN	18 35 16	0.9	1	0.7	1
	eS	N	N	39 05			1.5	15
	eL	Z	Z	40				
FEB 1	AF	iP	ZN	00 20 30 u	0.7	1	0.6	1
	eS	ZN	ZN	23 40			0.6	1
	e(T)	Z	Z	38.5				
1	AF	eP	Z	00 44 07	0.9	1		
	i	ZN	ZN	15	3.3	2	1.7	2
	eS	ZN	ZN	47 19			1.0	1
	eL	ZN	ZN	48.3	5	8	1.7	7
	eT	ZN	ZN	59	1.0	1	0.8	1
1	AF	eP	ZN	19 01 32	0.6	1	0.7	1
1	AF	eP	ZN	20 24 35			0.7	1
	eS	ZN	ZN	27 24			0.7	1

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Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn	
		eT	ZN	39					
	2	AF	i(P)	Z	17 32 30 d	0.6	1		
	2	AF	eP	ZN	17 33 15	0.7	1	0.5	1
		eS	ZN	34 43		0.9	1	0.8	1
		e(PcP)	ZN	39 03		0.6	1	0.6	1
	3	AF	P	ZN	00 47 06	2.9	2	1.0	1
		eS	ZN	54 28		2.0	16	1.5	18
		eSS	ZN	57 15		1.0	22	1.0	15
		Lr	ZN	01 02 48		2.0	15	0.9	20
		M	ZN	09		4.0	16	2.0	16
	3	AF	iP	ZN	13 27 10 d	0.7	1	0.6	1
		iS	ZN	28 38 d		1.1	1	0.9	1
		eT	Z	35 20		0.8	1	0.8	1
	8	AA	eP	N	11 57 54			0.25	
	9	AF	iP	Z	12 05 15 d	1.0	1		
		S	Z	07 35		0.7	1		
	11	AF	iP	ZN	02 52 30 u	0.6	1	0.5	1
		eP	ZN	19 02 35		4.0	5	0.9	1
		eS	ZN	07 50		1.5	15	1.5	15
		eL	ZN	10.6		2.5	18	3.5	18
	14	AF	eP	ZN	06 49 07			2.0	2
		eS	N	59 20			5.5	25	
		SS	N	07 04 08			4.0	20	
		eLq	N	12.5			3.0	20	
		eLr	N	16			14	18	
	15	AF	eP	Z	14 13 01				
	15	AF	iP	ZN	15 32 36 d	1.2	1	0.9	1
		S	ZN	34 43		1.1	1	1.0	1
	15	AF	iP	ZN	20 58 37 u	2.3	2	1.0	1
		iS	ZN	21 00 39 u		0.7	1	0.8	1
		eT	ZN	10		1.2	1	0.7	1
	19	AA	eP?	N	11 06 08			0.3	
		i(P)	N	26				1.4	
		iS	N	07 35				6.5	
		eT	N	11.2				0.6	
	20	AF	iP	ZN	10 10 35 u	1.3	1	0.7	1
		S	ZN	13 05		1.6	1	1.6	1
		eScP	Z	17 50		0.5	1		
	20	AF	eP	Z	16 16 46	0.6	1		
	21	AF	iP	ZN	00 09 20 u	0.7	1	0.4	1
		iS	ZN	11 26 u		0.7	1	0.5	1
		eT	Z	21.5		0.5	1		
	23	AF	iP	ZN	11 48 27 u	1.0	1	0.7	1
		eP	Z	20 28 43					
		ePP	Z	30 06					
		eLq	ZN	38 30		0.5	18	0.6	20
		eLr	Z	40		2	16		

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Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
FEB 24	AF	iP	Z 19 42 25	d	0.7 1			
25	AF	eP	ZN 06 42 47		0.6 1			
	IS	ZN	45 03	d	0.8 1	0.6 1		
	eT	ZN	54		0.5 1	0.7 1		
					0.5 1			
25	AF	eP	Z 14 04 43					
25	AF	eP	Z 20 12 01					
	eS	ZN	13 03		0.5 1			
	eT	ZN	16 56		0.7 1	0.7 1		
					0.6 1			
26	AF	iP	Z 01 45 40	u	0.7 1			
27	AF	eLq	ZN 13 21 1		2.0 18			
	eLr	Z	28.5		1.0 17	0.5 20		
MAR 1	AF	eP	ZN 23 44 47		2.2 5			
	eS	ZN	47 35		3.0 18	0.5 4		
	eL	ZN	48 50		3.0 20	1.7 18		
					3.0 8			
2	AF	eP	Z 13 13 58					
3	AF	eP	Z 12 25 29					
3	AF	iP	ZN 16 04 17	u	0.8 1			
	S	ZN	06 09		0.6 1	0.6 1		
3	AF	iP	ZN 16 14 43	u	2.1 1			
	S	ZN	15 15		5.0 1	1.1 1		
					7.0 1			
7	AF	iP	ZN 11 09 29	u				
	ePP	ZN	11 30		0.9 1			
	eS	N	16 22		0.6 1			
					0.6 16			
9	AA	eP	N 06 59 02					
	eS	N	07 00 27			0.75		
					1.1			
9	AA	eP	N 17 32 29					
	eS	N	34 36			0.8		
					1.5			
11	AA	eP	N 05 59 37					
	S	N	06 00 12			1.4		
					3.3			
15	AA	eP	N 13 09 22					
	eS	N	11 07			0.4		
					0.4			
16	AA	eP	N 19 47 37					
18	AA	eP	N 01 30 13					
	eS	N	32 46			<0.5		
					<0.3			
19	AA	iP	N 02 33 58					
19	AA	eP	N 15 38 43					
	eS	N	42 04			0.4		
					0.3			
21	AF	eP	ZN 02 34 40		0.6 1	0.5 1		
21	AF	iP	ZN 23 08 32	d	2.0 1	0.7 1		
22	AF	iP	ZN 00 30 27	u	1.5 1	0.8 1		
22	AF	iP	Z 00 48 17	d				

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Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
MAR 22	AF	iP	ZN 01 52 04	u	0.6 1	0.6 1		
	S	ZN	53 00		0.8 1	1.1 1		
	eT	ZN	56 45		1.1 1	0.8 1		
22	AF	eP	ZN 15 21 30		1.5 1	0.5 1		
	e(P)	Z	23 24		1.5 7			
	eS	Z	28 25		1.5 19			
	eSS	ZN	31 40		1.5 18	0.5 10		
	eLq	ZN	34 35		1.5 24			
	eLr	Z	37 34		3.5 22			
22	AF	eP	Z 16 25 20					
23	AF	iP	ZN 00 17 29	d	0.9 1	0.6 1		
	S	ZN	19 01		0.6 1	0.6 1		
24	AF	eP	ZN 01 35 07		1.0 1	0.7 1		
	eS	ZN	53		2.1 1	1.6 1		
	eT	ZN	38.5		2.2 1	1.8 1		
24	AF	iP	ZN 13 07 25	d	1.6 1			
	pP	Z	52		2.1 1			
	eS	Z	13 53		1.0 24			
	eL	Z	17.1		1.0 20			
25	AF	eP	Z 16 45 27		0.5 1			
27	AF	iP	ZN 14 52 13	d	0.6 1	0.5 1		
	S	ZN	53 46		1.0 1	1.0 1		
28	AF	iP	Z 06 20 42	u				
28	AF	eP	Z 14 17 08					
29	AF	iP	Z 20 19 21	d				
30	AF	iP	ZN 14 27 09	u	1.2 1	0.8 1		
	eS	ZN	29 57		0.7 1	0.7 1		
31	AF	iP	ZN 01 17 28	d	1.6 1	1.0 1		
	S	ZN	59		6.0 1	4.8 1		
APR 1	AF	eP	Z 12 19 24		0.7 1			
2	AF	iP	Z 18 41 38	d				
3	AA	eP	N 16 30 03					0.8
5	AF	eP	Z 12 37 12		0.5 1			
5	AF	iP	Z 19 50 36	u				
6	AF	iP	ZN 04 28 04	d	0.6 1	0.5 1		
	S	Z	29 43					
6	AF	eP	Z 14 15 45					
	eS	Z	17 54					
6	AF	iP	ZN 20 27 21	d	0.7 1	0.5 1		
	eS	ZN	29 27		0.5 1	0.5 1		
7	AF	eL	ZN 06 45 02		1.3 20			
7	AF	iP	ZN 10 33 58	d	1.2 1	0.6 1		
	S	Z	35 42					

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Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
APR 8	AF eP S	ZN	05 16 53	0.8	1	0.7	1	
	S	ZN	18 08	0.9	1	1.0	1	
9	AF eP	Z	09 04 50					
9	AF eP eS	Z	20 17 08	0.5	1			
	eS	ZN	18 32	0.7	1	0.6	1	
10	AF iP S	ZN	17 08 21 d	6.0	1	2.6	1	
	S	ZN	09 12	3.5	1	2.9	1	
10	AF ePKP	Z	21 57 10	0.6	1			
12	AA eP eL	N	00 03 38					
	eL	N	25.6			0.4		
12	AF eP	Z	05 58 08	0.6	1			
14	AF eP eS	Z	00 42 28					
	eS	Z	44 48			0.5		
17	AF iPKP	Z	10 23 39 u	0.4	1			
17	AF eP	Z	17 49 18	0.5	1			
17	AF ePKP	Z	22 54 53	0.6	1			
18	AF eP S	Z	04 05 45					
	S	ZN	06 48	0.5	1	0.4	1	
18	AF iP i	Z	19 27 40 d	1.3	1			
	i	Z	28 02	1.8	1			
	eS	Z	39.1	1.0	16			
	eL	Z	56.2	3	25			
19	AF iP eS	ZN	22 19 37 d	1.3	1	0.8	1	
	eS	N	22 57			0.5	20	
19	AF iP	ZN	23 29 08	0.5	1	0.4	1	
20	AF eP ePP iPKKP eL	Z	06 01 57					
	ePP	Z	06 02					
	iPKKP	Z	17 52 d					
	eL	Z	36.0			1.0	20	
21	AF iP eS e (pPcP)	ZN	07 49 02 u	0.8	1	0.6	1	
	eS	ZN	51 14	0.7	1	0.7	1	
	e	Z	55 27	0.4	1			
	(pPcP)	Z	55	0.5	1			
21	AF eP	Z	21 26 05					
22	AF iP	ZN	02 14 12 d	0.9	1	0.5	1	
22	AF eP	Z	04 57 41					
22	AF iP S	ZN	16 05 24 u	0.9	1	0.5	1	
	S	ZN	07 10	0.5	1	0.5	1	
23	AF iP iPcP ePP eS eLq Lr	ZN	06 09 18 d	4.5	6	0.7	3	
	iPcP	ZN	40	3.2	5	1.0	3	
	ePP	Z	11 51	3.0	7			
	eS	ZN	18 25	3.0	18	1.5	18	
	eLq	ZN	26.3	2.0	23	1.0	17	
	Lr	ZN	29 35	6.0	35	2.0	34	

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Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
APR 25	AF eP eS eT	ZN	05 57 09	0.6	1	0.4	1	
	eS	ZN	58 40	0.7	1	0.7	1	
	eT	ZN	06 05 27	0.5	1	0.4	1	
25	AF eP eL	Z	15 58 21					
	eL	ZN	16 18.2			1.0	20	
26	AA iP iS	N	07 28 20 d					2.0
	iS	N	29 57 d					2.2
27	AF iP eS	ZN	06 33 07 d	2.0	1	1.1	1	
	eS	ZN	35 17	1.2	1	0.9	1	
28	AF eP S	ZN	07 06 42	0.8	1	0.6	1	
	S	ZN	07 30	1.6	1	1.1	1	
29	AF iP S	ZN	20 37 07	2.7	1	1.1	1	
	S	ZN	37	5.0	1	2.9	1	
30	AF iP S	ZN	16 18 12 d	2.0	1	1.3	1	
	S	ZN	19 12	6	16	11	15	
30	AF iP (S)	ZN	18 32 22 u	2.4	2	1.0	1	
	(S)	ZN	33 15			6.0	10	
	eL	ZN	35					
31	AF eP eS	ZN	20 46 52	1.9	1	0.9	1	
	eS	ZN	49 05	2.0	1	1.4	1	
31	AF iP S	ZN	13 27 33 d	0.8	1	0.7	1	
	S	ZN	29 09	1.1	1	1.0	1	
32	AF eP eS	ZN	23 10 07	1.2	1	0.7	1	
	eS	Z	13 29					
33	AF iP iS	Z	12 10 59 d	0.8	1	0.7	1	
	iS	ZN	12 46 u					
34	AF eP eS	Z	19 13 56	1.0	4			
	eS	Z	26.5			0.5	16	
	eLq	ZN	41.5					
	eLr	ZN	46.5			1.5	22	
	M	ZN	51.0			2.0	18	
								1.0
35	AF eP	Z	13 11 13					
36	AF eP eS	Z	15 00 53					
	eS	Z	03 40					
37	AF eP eS	ZN	17 51 02	2.0	10	0.5	5	
	eS	ZN	18 00 15	1.0	20	1.0	22	
	eL	ZN	11.0	1.5	30	1.0	26	
38	AF iP S	ZN	07 59 15 u	0.7	1	0.6	1	
	S	ZN	08 00 35	0.8	1	1.0	1	
39	AF eP S	Z	18 11 38					
	S	Z	12 55					
40	AF iP S	ZN	02 36 03	0.9	1	0.7	1	
	S	ZN	38	1.4	1	1.1	1	
	L	ZN	37 03	2.4	8	1.3	3	
	eT	ZN	18	1.2	1	1.1	1	
41	AF iP	ZN	12 13 08 u	0.7	1	0.6	1	

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Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
MAY		S	ZN 45	0.7	1	0.8	1	
10	AF	iP	ZN 00 33 37 u	0.7	1	0.6	1	
	eLq	ZN	43.3	0.6	20			
	eLr	ZN	45.9	1.0	16			
11	AF	iP	ZN 12 10 14 u	1.4	1	0.7	1	
11	AF	eP	Z 13 39 10					
	eS	ZN	41 35	0.8	1	0.6	1	
11	AF	eP	Z 14 23 42	2.0	4			
	eS	ZN	33 38	1.5	18			
	eSS	ZN	38 25	1.5	18			
	eSSS	ZN	42.0	0.6	18	0.6	18	
	eLq	ZN	44.4	1.0	20	0.5	20	
	eLr	ZN	46.6	3.5	18	1.0	18	
12	AF	iP	ZN 20 37 38 d	0.7	1	0.6	1	
	iS	ZN	39 11 u	0.6	1	0.6	1	
12	AF	iP	ZN 22 05 32 d	2.7	1	1.0	1	
	eS	N	07 03			0.7	1	
14	AF	eP	Z 23 24 25	0.6	1			
	eS	N	26 05			0.6	1	
15	AF	iP	ZN 05 33 48 d	1.9	1	0.7	1	
	(Pcp)	N	34 00			1.1	1	
	eS	N	41 49			2.0	21	
	eLq	N	48 29			2.0	26	
	eP'P'	Z	06 03 37					
15	AF	eP	ZN 06 53 00	0.9	1	0.5	1	
16	AF	eP	ZN 05 21 21	0.8	1	0.5	1	
16	AF	iP	ZN 17 37 47 u	0.8	1	0.6	1	
	S	ZN	40 32	0.6	1	0.6	1	
	eL	Z	42 45					
17	AF	iP	ZN 02 28 48 d	2.3	1	1.1	1	
18	AF	iP	ZN 02 52 03 d	0.8	1	0.6	1	
	eS	ZN	53 51			0.4	1	
18	AF	iP	Z 07 16 38 u	0.8	1			
	S	ZN	19 29	0.8	1	0.7	1	
18	AF	iP	ZN 23 19 25	8.0	1	3.7	1	
	S	ZN	53	17	1	14	1	
	eT	ZN	21 30	13	1	6.0	1	
19	AF	iP	ZN 15 10 06	2.0	8	0.5	6	
	ePP	Z	13 05	1.2	8			
	eS	ZN	20 10	1.3	16			
	eSS	ZN	24 50	1.0	18			
	eSSS	Z	28.5	1.0	22			
	eLq	ZN	31.0	1.0	20	0.6	20	
	eLr	ZN	33 25	2.5	24	0.5	25	
20	AF	iP	Z 08 11 35 d					
	eS	Z	13 28					
21	AF	iP	ZN 21 17 22 d	83	1	41	1	

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Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
		S	ZN 18 48	152	1	176±	1	
12	AF	iP	ZN 00 21 00 u	1.7	1	1.1	1	
	S	ZN	37	4.2	1	4.2	1	
12	AF	iP	ZN 02 20 35	1.7	1	0.9	1	
	S	ZN	57	5.5	2	4.2	2	
12	AF	eP	Z 04 49 23					
22	AF	iP	ZN 08 11 16	23	1	2.7	2	
	ipP	ZN	51	14	1	2.0	2	
	(pPP)	Z	12 16	4.5	6			
	S	ZN	15 07	6.0	10	2.2	10	
	(sS)	ZN	55	8.0	10	5.5	12	
	e	Z	17.0	7.0	36			
22	AF	eP	Z 22 10 37	0.5	1			
	PP	Z	11 59	0.6	1			
	eLq	ZN	20.3					
	eLr	ZN	23.5	1.0	20			
23	AF	eP	ZN 08 22 01	0.8	1	0.5	1	
	iS	Z	24 29	1.0	1	0.9	1	
24	AF	eP	ZN 07 13 06	0.5	1	0.4	1	
	eS	ZN	14 02	0.6	1	0.6	1	
						1.2		
						1.6		
						1.1		
						0.9		
25	AA	eP	N 04 21 02					0.6
	eIS	N	22 15					0.8
	eL	N	56					1.0
	eT	N	27.5					
25	AA	eP	N 17 24 51					
26	AA	eP	N 02 15 05					
	eS	N	16 39					
30	AF	iP	ZN 16 59 27 d	0.8	1	0.5	1	
	S	ZN	17 00 53	1.1	1	0.8	1	
31	AF	eP	Z 13 50 20					
3	AF	iP	ZN 14 28 27 d	0.6	1	0.4	1	
	S	ZN	30 37	0.6	1	0.4	1	
3	AF	PKP	Z 15 21 35					
	1	Z	42 u					
4	AF	iP	ZN 16 32 22	0.5	1	0.4	1	
	S	ZN	33 25	0.9	1	0.8	1	
5	AF	iP	Z 16 53 30 d	0.9	1			
						0.9		
8	AA	eP	N 01 33 57					
9	AA	eP	N 06 07 08					0.7
	eS	N	08 47					1.2
11	AA	iP	N 04 36 57					
	eS	N	38 26					1.1
13	AF	iP	Z 19 11 26 u	0.5	1	0.4	1	
	iS	ZN	13 22 u					1.5

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
JUN 14	AF	eL	ZN 08 23.9		1.0 24			
15	AF	iP	Z 12 00 48 d					
15	AF	iP	Z 12 12 15 u					
	S	Z	13 36					
17	AF	eL	Z 13 32 45		1.0 20			
18	AF	iP	ZN 13 47 30					
	S	ZN	19 05	0.7 1	0.6 1			
18	AF	iP	Z 20 32 33 u					
	eS	Z	34.0					
18	AF	iP	Z 23 49 37 u					
19	AF	iP	ZN 15 45 54	2.1 1	1.3 1			
	S	ZN	46 28	5.0 1	4.7 1			
19	AF	iP	ZN 16 41 29 u	1.0 1	0.7 1			
	iS	ZN	43 08	2.0 1	1.5 1			
20	AF	iP	ZN 00 07 22 d	1.0 1	0.7 1			
	S	ZN	08 30	1.8 1	1.6 1			
21	AF	eP	ZN 08 40 19	0.9 1	0.6 1			
	S	ZN	41 45	2.2 1	1.9 1			
21	AF	P	Z 10 21 10					
	S	Z	22 49					
22	AF	iP	Z 15 03 17 d					
22	AF	P	Z 17 59 13					
	S	Z	18 00 52					
25	AF	iP	ZN 01 33 57 d	0.9 1	0.5 1			
	S	ZN	35 47	0.9 1	0.7 1			
25	AF	iP	Z 11 22 01 d	1.6 1				
	eS	ZN	31.5					
	eL	ZN	44 20	2.0 20				
28	AF	eP	Z 04 34 26	0.9 1				
28	AF	iP	Z 19 01 00 u					
28	AF	iP	ZN 20 48 45 d	2.4 1	1.5 1			
	S	ZN	49 40	10.1	4.5 1			
29	AF	eP	Z 13 59 18					
JUL 1	AF	iP	ZN 01 36 40 u	1.1 1	0.7 1			
1	AF	P	ZN 05 10 14	0.8 1	0.6 1			
	S	ZN	12 12	0.7 1	0.5 1			
	eT	Z	21.2	0.5 1				
1	AF	iP	ZN 13 35 39 d	1.1 1	0.9 1			
	S	ZN	36 14	1.5 1	1.5 2			
	T	ZN	38 42	3.0 1	1.6 1			
2	AF	iP	ZN 08 37 25 u	6.2 3	1.0 2			
	1PP	ZN	38 00 u	4.6 5	1.2 4			

AUCKLAND AND APIA 1962

Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
			41 15		2.2 16		1.0 16	
		eS	ZN	06 24 34				1.0
	3	AA	P	25 12				3.7
		S	N					
	3	AA	P	08 35 23				1.0
		S	N	36 01				3.1
	6	AA	P	12 12 52				9.5
		S	N	13 26				30
	6	AA	eP	13 30 42				0.6
		eS	N	32 51				0.5
	6	AF	iPKP	ZN 23 24 00	u	1.1 1	0.5 1	
			(pPKP)	ZN 57		0.7 1	0.5 1	
		e	ZN	27 14		1.1 1	0.6 1	
		e	Z	37 45		0.5 18		
		eSS	ZN	41 45			0.8 17	
	7	AF	eL	ZN 06 46 15		1.0 20		
			Z	22 58 11				
	8	AF	P	ZN 23 00 46				0.5 1
		S	Z	11.3				
	10	AF	iP	ZN 05 14 20 u		1.1 1	0.8 1	
		S	ZN	16 08		1.3 1	1.3 1	
	10	AA	P	N 12 58 03				0.3
		S	N	59 38				0.7
	12	AF	iP	ZN 01 42 34		0.6 1	0.5 1	
		S	ZN	43 58		0.5 1	0.5 1	
	12	AA	P	N 09 35 17				0.5
	12	AF	eP	Z 16 38 45				
								0.5
	15	AA	eP	N 12 39 14				0.9
		S	N	40 24				
	16	AF	eL	Z 02 30.5		0.8 20		
	16	AF	iP	ZN 07 52 04 d		1.1 1	0.6 1	
		S	ZN	53 35		0.7 1	0.5 1	
	16	AF	iP	ZN 09 30 25 d		1.5 1	0.6 1	
		S	ZN	20 08 58	s	0.7 1	0.5 1	
	16	AF	iP	ZN 10 08		0.7 1	0.6 1	
		S	ZN					
	17	AF	iP	ZN 00 20 11		0.9 1	0.5 1	
		S	ZN	21 46		0.4 1	0.4 1	
	17	AF	eL	Z 17 52.4				
	18	AA	eP	N 14 43 24				
		eS	N	44 43				0.4
								0.6
	19	AF	iP	ZN 03 40 44		0.8 1	0.7 1	
		iS	ZN	41 19		1.9 1	1.7 1	
		eT	ZN	44 10		1.7 1	1.1 1	
	20	AF	P	ZN 16 29 08		0.7 1	0.6 1	

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
JUL	S	ZN	30 28	0.7	1	0.8	1	
	eT	ZN	36 14	0.7	1	0.7	1	
Recording at Afiamalu was suspended from 1962 June 25-29 to allow the installation of "World Standard Network" instruments. During this period a Benioff short-period vertical instrument was in temporary operation at Apia. Amplitudes given are in millimetres, measured directly from the paper records.								
JUL 26	AA	eP?	Z 08 28 02	2.0				
	e(P)	Z	12	2.0				
27	AA	iP	Z 19 30 54 d	2.9				
28	AA	iP	Z 00 05 50	130+				
30	AA	iP	Z 14 07 29 u	4.2				
	S	Z	09 05	7.2				
30	AA	P	Z 17 25 05	1.8				
	ipP	Z	17 u	3.4				
AUG 1	AA	P	Z 03 52 24	4.0				
1	AA	eP	Z 04 45 14	3.7				
1	AA	iP	Z 12 50 57 d	3.1				
3	AA	iP	Z 09 09 40 d	2.2				
4	AA	iP	Z 05 40 25	2.4				
	S	Z	41 13	10.5				
5	AA	P	Z 15 13 16	0.9				
6	AA	iP	Z 20 55 05 d	3.8				
	iS	Z	57 30	6.4				
8	AA	iP	Z 09 21 19 u	0.8				
	S	Z	22 53	0.9				
8	AA	eP	Z 13 39 38	0.5				
11	AA	iP	Z 01 49 47 u	8.0				
	S	Z	51 30	8.5				
11	AA	iP	Z 06 47 57	15.5				
	S	Z	48 21	59				
11	AA	P	Z 08 27 08	1.6				
	PcP	Z	43	1.2				
17	AA	iP	Z 01 32 57 u	9.0				
	S	Z	33 17	34				
17	AA	iP	Z 11 50 28	2.1				
17	AA	iP	Z 16 21 42 u	1.8				
	S	Z	23 13	1.3				
19	AA	eP	Z 04 14 52	3.8				
	S	Z	15 23	14.5				
20	AA	eP?	Z 11 25 35	0.9				
	eP	Z	40	2.5				

AFIAMALU AND APIA 1962

Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
1962 20	AA	eP	Z 23 23 24	1.2				
21	AA	iP	Z 17 05 02 u	8.0				
	S	Z	22	22				
21	AA	eP	Z 21 09 28	1.7				
	S	Z	12 17	1.3				
	eLr	Z	15 07	0.6				
21	AA	eP	Z 21 19 43	1.1				
22	AA	iP	Z 09 14 53 d	1.4				
	iS	Z	16 35 d	1.4				
23	AA	iP	Z 19 17 53	2.9				
	es	Z	18 20	8.0				
24	AA	iP	Z 08 04 46 d	4.8				
	S	Z	08 08	123				
25	AA	iP	Z 08 33 59 u	16.5				
	S	Z	35 42	45				
26	AA	iP	Z 00 40 39	9.5				
	S	Z	41 04	35				
28	AA	eIP	Z 11 19 44	7.0				
30	AA	eP	Z 17 19 40	4.0				
	es	Z	20 59	4.0				
	eT	Z	27 20	3.5				
31	AA	iP	Z 04 56 27 d	28				
7	AA	P	Z 07 51 25	1.2				
10	AA	iP	Z 15 46 19 u	43				
	S	Z	14 48 11	25				
10	AA	iP	Z 17 50 11 u	3.7				
	S	Z	54	11.5				
	eT	Z	53 56					
11	AA	iP	Z 02 24 51 d	9.0				
	S	Z	25 11	32				
12	AA	iP	Z 14 18 30 d	24				
	S	Z	52	64				
14	AA	eP?	Z 17 26 44	1.3				
	e(S)	Z	28 26	1.9				
14	AA	iP	Z 18 19 46	9.5				
	S	Z	21 16	13				
17	AA	iP	Z 05 01 47 u	1.8				
	eS	Z	03 17	0.9				
17	AA	iP	Z 17 58 05 u	6.0				
	S	Z	59 57	9.0				
18	AA	iP	Z 20 15 02 d	3.5				
18	AA	eP	Z 21 47 48	2.9				
	eS	Z	48 44	2.7				

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Stn	Phase	h m s	Az	Tz	An	Tn	Bn
SEP		eT	Z	52 10		1.1		
18	AA	iP	Z	22 04 06	d	22		
	S	Z		35		58		
21	AA	iP	Z	08 46 31	d	2.2		
	S	Z		48 25		1.6		
21	AA	iP	Z	14 56 46	d	4.2		
22	AA	eP	Z	15 13 27		2.0		
25	AA	eP	Z	07 32 42		2.1		
	eS	Z		34 44		1.4		
26	AA	P	Z	12 48 02		2.0		
	eS	Z		50 30		1.7		
27	AA	iP	Z	13 27 00		11.0		
	eS	Z		28 31		2.4		

On 1962 September 29, Afiamalu was equipped with the instruments of a "World Standard Network" station, and Apia readings are no longer reported. Amplitudes are given in millimetres, read directly from the paper records.

Date	Phase	h m s	Az	Tz	An	Tn	Ae	Te
SEP 29	eSKS	Z	15 42 53		4	15		
	eSP	Z	46 32		2	14		
	eSS	Z	51 47		3.6	16		
	eSKKS	Z	58 29		3	40		
	eL	Z	16 04 09		4	32		
OCT 1	eP	ZN	20 43 53					
	eS	ZN	44 52		2.1	1	2.5	1
	eL	ZN	45 10		9	33	9	33
4	iP	ZNE	07 32 27.0	u				
4	iP	ZNE	17 28 07.4	u				
4	iP	ZNE	18 48 09.3	u				
5	eP	ZNE	05 30 07					
	eS	ZNE	31 12					
5	eP	ZNE	10 48 16					
6	iP	ZNE	04 27 53	u	30	22		
	eS	ZNE	31 46					
	L	ZNE	32 58					
6	eP	ZNE	05 31 07					
	i	ZNE	24					
6	eP	ZNE	07 21 40					
	eS	ZNE	25 28					
	eS	ZNE	26 42					
6	iP	ZNE	08 00 51	u	3.5	20	1.7	18
	eS	ZNE	04 44			1.4	8	2.2
	e	ZNE	05 08					
6	iP	ZNE	11 05 16.6	u	1.5	6	0.4	7
	e	ZNE	06 12		1.8	6	0.6	3

AFIAMALU 1962

Date	Phase	h m s	Az	Tz	An	Tn	Ae	Te
18	eS	ZNE	08 56	1.5	6	3.5	9	1.5 16
	L	ZN	09 54	2.0	16	3.5	14	
6	eP	ZNE	12 04 22	0.9	13	0.6	4	
	eS	NE	08 25			0.8	4	1.2 16
	L	ZNE	09 26		2.5	20	0.9	6
6	iP	ZNE	16 10 54.0	u				
	iS	ZNE	11 14.5					
6	eP	ZNE	18 05 46	0.8	4			0.8 5
	eS	ZNE	09 45		0.4	5		0.9 4
	eL	ZNE	10 49		3.5	20		3.0 18
6	iP	ZNE	18 36 12.3	u				
	iS	ZNE	44					
	i	ZNE	18 51 30					
6	iP?	E	23 35 56	e				
	iP	ZNE	36 02	d	7	20	5	17
	iS	ZNE	39 52		2	13	1.9	6
	e	ZN	40 13	d	4	13	6.5	18
	eL	ZNE	41 05	u	20	20	8.5	15
7	eP	ZNE	00 53 40	1.1	14	0.7	3	1.4 4
	eS	NE	57 44			0.5	4	1.2 2
	eL	ZNE	58 37		5	21	1.4	9
7	eIP	Z	04 27 55.4					
	i	ZE	57.1	u				
	e	Z	28 04					
	i	E	07					
	e	E	30 18					
7	iP	ZNE	08 00 51.2	u				
7	iP	ZE	08 08 04	d				
	i	ZE	06.0	u				
7	iP	ZNE	11 05 18.2	d				
7	eP	ZE	18 05 37					
7	iP	ZNE	22 42 54.8	u				
	eS	ZNE	43 24					
7	iP	ZE	23 35 56.3					
	i	ZNE	58.0	u				
8	iP	ZNE	07 23 48.5					
	i	ZNE	24 04.5					
8	iP	ZNE	17 55 06.0					
	eS	ZNE	56 19					
8	iP	Z	22 08 05.6	u				
	i	ZN	08				1.8	23
	eS	Z	17 16			1	14	
	i	Z	18 52	d		3.5	21	
	e	Z	21 28			1.4	11	
	eSS	Z	22 50					
	eL	Z	27 55		2	17		
9	iP	ZNE	15 25 58	s				

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
OCT 9	eP	ZE	20 22 16		1	6.5			
	ePP	Z	23 57		1.9				
	iS	Z	28 31	d	2.2	16			
	(SSS)	Z	31 40		7	21			
	eL	Z	33 24		16	29			
10	iP	ZNE	09 23 10.0 u						
	iS	E	25 19.6						
10	iP	ZNE	16 21 14.3						
	i	Z	22 20.5						
	iS	NE	22						
10	eP	ZNE	19 14 20						
	eS	ZNE	44		1.9	11	4	13	6 16
10	iP	ZNE	21 53 04.6 daw	6.5	13	7	16	7.5	18
	eS	ZNE	24						
			Felt: Apia MM3.						
10	iP	ZNE	22 18 26.0 d						
	i	ZNE	30.8						
	iS	ZNE	48	d					
11	eP	ZNE	01 09 37						
	eS	NE	54						
11	eP	ZNE	01 11 01						
	eS	ZNE	21						
11	iP	ZNE	02 15 32.3 d						
	i	ZNE	53.4						
	e	ZNE	16 04						
11	eP	ZNE	13 04 55						
	eS	ZNE	05 28						
11	iP	ZNE	14 17 53.6 u						
	S	ZNE	18 13						
11	iP	ZNE	19 14 30.4 d						
	S	ZNE	48						
12	eIP	Z	10 50 35						
	e	NE	37						
	e	NE	39						
12	iP	ZNE	11 45 25 d						
	eis	ZNE	46 43						
12	iP	Z	14 54 10.2 u						
	iS	NE	55 55 sw						
12	iP	ZNE	20 42 16 u						
	eS	E	44 45						
13	iP	ZE	08 33 51.0 u						
13	eIP	ZNE	18 52 33						
14	eP	Z	00 34 32						
14	iP	ZE	07 25 15.7 d						
	i	NE	37.4 se						
				11	5.3				

KAMALU 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
Oct 15	iP	ZE	08 09 17.0 u						
	iS	ZE	47.0 w						
15	iP	ZE	08 33 38.8 u						
	eS	ZE	34 08						
15	iP	ZE	11 42 26 d						
	eS	ZE	43 03						
	eT	ZE	46 04						
15	iP	ZE	12 30 58 de						
	eis	ZE	31 29						
16	P	ZE	05 26 03						
	e(S)	ZE	31 04					2.1	23
	eS	ZN	18 21 44					0.9	19
	eL	ZN	32 20					1.9	30
								3.5	28
16	eP	ZNE	18 46 05						
	eS	ZNE	58						
16	eIP	ZNE	19 08 05						
	eS	ZNE	09 12						
	eIT	ZNE	13 56						
16	iP	ZNE	23 52 09 u						
	iP	Z	03 38 09 u						
	S	Z	39 55						
16	iP	Z	05 40 17.8 d						
21	iP	Z	08 19 20.0 d						
	eS	ZN	20 55						
21	iP	ZNE	13 07 53.0 d						
	S	ZNE	08 15						
21	eIP	Z	22 26 53						
	eS	ZNE	27 27						
	eT	ZNE	29 41						
22	iP	Z	01 11 42.1 d						
	eS	NE	13 17						
22	iP	ZNE	14 06 55 u						
	S	ZNE	07 17						
22	eL	ZN	15 55.0					1.5	25
								2.5	30
									1.7
									No records available Oct 22d 21h -
									23d 03h. Earthquake reported felt
									Apia 23d 01h 27m.
23	iP	ZN	04 40 08.2						
	S	ZN	41 05						
23	iP	ZN	06 47 22 u						
	S	ZN	43						
23	eP	ZN	09 18 40						
	eS	ZN	19 24						
	eT	ZN	23.1						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
OCT 23	iP	Z	16 17 52.4	u					
24	eP	ZN	20 20 25						
	eS	N	44						
25	iP	ZE	09 44 35	u					
	S	NE	55 09						
	eL	N	10 00 26			1.8 15		1.7 10	
25	iP	ZNE	12 38 40	u					
	S	ZE	40 04						
25	eP	Z	20 15 22						
	S	ZNE	23 04			7.5 21		7.0 22	
	SSS	E	28 13						
	Lq	ZN	29 26						
26	P	ZNE	07 25 02						
27	P	ZNE	07 37 55.6						
	eS	ZNE	38 32						
28	P	ZN	14 05 29.0						
29	eL	ZE	16 24 42						
		ZNE	32.9			1.6 28		1.2 24	
29	eL	ZNE	21 19 24						
		ZNE	27.5			1.7 8		1.7 16	
30	eSP	Z	02 15 20						
	eSS	ZNE	21 55						
	eL	ZNE	38 35						
30	iP	ZNE	15 22 10.9	u					
	S	ZNE	23 26						
	eL	ZNE	23 40						
	eT	ZNE	29 15						
30	P	ZNE	15 47 51						
31	eS	ZNE	11 56 34						
	eSS	ZNE	12 02 37						
	eLq	N	09.0						
	eLr	ZN	12.0						
NOV 1	iP	ZNE	09 49 55.8	dnw					
	S	ZNE	52 04						
1	iP	ZE	15 43 14.9	d	1.1				
	eS	N	50 48						
	PS	ZNE	51 15			3.5 18		9.0 22	
	eLq	N	57.5			2.0 27			
	eLr	ZNE	59 50			5.5 37		5.0 37	
1	P	ZE	18 02 07						
	eS	E	09.6						
	ePS	ZNE	10 15			2.8 24		2.2 20	
	eLq	N	18 53					1.5 20	
	eLr	ZNE	18.6			3.5 36		3.0 40	
2	eP	ZE	06 59 06						
	eL	ZNE	07 04 25			1.0 22		1.3 25	
2	eP	Z	14 58 08						

KAIKOURA 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
NOV 1	eL	ZNE	15 20 40						
	eM	NE	30.0					1.5 25	1.5 22
3	iP	ZNE	01 06 28.0	d					
	eL	ZE	14 45						
4	eP	ZNE	21 10 04						
	eS	ZNE	11 49						
4	eP	Z	22 06 10					1.2 12	
	eS	Z	17 26					1.8 16	
	e(SS)	Z	22 15					2.3 24	
	eL	Z	32 25					2.5 28	
7	P	ZNE	05 15 26						
7	eP	ZNE	06 24 55						
	eS	ZNE	27 03						
8	eL	ZE	01 03 05					3.0 26	2.0 25
8	eS	Z	07 57 20					1.0 15	
	eL	E	58 37						1.7 18
9	iP	ZE	16 31 20						
9	iP	ZNE	08 28 22.1	u					
	S	ZNE	30 26						
9	eL	ZN	09 52.1						
11	eL	ZE	08 35.0						
11	eL	ZN	12 18.2						
11	iP	ZNE	11 59 42.8	d					
	S	ZNE	12 01 11						
11	PKP	Z	15 35 32						
11	iP	ZNE	16 14 39.0	une	6 5			2.2 5	5.4 6
	PP	ZE	55	9 5					6.5 5
	eS	ZNE	18 32	2.3 12				3.7 20	2.2 18
	eSS	NE	52	5 14					2.8 10
	eL	ZNE	19 06	28 30				25 20	31 27
11	eP	Z	22 26 47						
	eS	ZNE	36 30					1.6 20	3.2 22
	PS	NE	38 17					3.1 20	3.0 15
	eSS	ZNE	43 07					2.0 20	1.8 25
	eLq	NE	49 30					4.5 30	3.2 30
	eLr	ZNE	52 40					6.0 30	4.0 25
14	P	ZNE	07 26 53						
	S	ZNE	29 12						
	eLq	E	30.8						1.6 20
14	eP	Z	07 58 54						
	eL	ZNE	18					2.2 30	1.7 26
14	eP	ZNE	22 10 03						
	eSS	ZE	23 16						
	eLq	ZE	26.5						
	eLr	ZE	31.4						
			1.7 37						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Tc
NOV 15	iP	ZNE	11 32 51.1	d					
	S	ZNE	34 35						
15	eS	NE	16 15 23						
	eL	ZNE	32.5						
15	eP	ZNE	16 32 53						
15 X	iP	ZNE	23 38 13.2						
	eS	NE	18.9						
	eSS	E	54.9						
	eL	ZNE	06.6						
16	eP	ZNE	02 21 43						
	eS	E	23 15						
16 X	eP	Z	07 28 50						
	eS	ZNE	36 35						
	eSS	Z	40 20						
	eSSS	N	42 39						
	eLq	NE	43.5						
	eLr	ZNE	44.8						
16 X	eS	E	21 34 15						
	eSP	Z	36 15						
	eSS	ZE	41 40						
	e(SSS)	Z	44.9						
	eL	ZE	50.3						
18	iP	ZNE	12 01 17.7	use					
	S	ZNE	52						
19	eS	E	10 32 30						
	eSS	E	36.5						
	e(Lq)	N	38.7						
	eLr	Z	40.7						
20 ✓	eP	Z	07 44 18						
20	eL	ZE	10 27.5						
21	P	ZNE	19 42 43						
	1S	ZNE	44 35.0	nw					
22	eP	ZE	07 42 06						
	eS	ZNE	46.1						
22	P	ZNE	08 39 23						
	S	ZNE	41 06						
22	P	ZNE	23 57 25						
	S	ZNE	59 23						
	eL	ZNE	00 00.4						
23	eL	ZNE	01 12.9						
			2.0 18						
23 X	P	ZNE	23 08 09						
	S	ZNE	10 02						
24	P	ZNE	08 11 35						
	eS	NE	12 32						
24 X	P	ZNE	10 36 57						
	S	ZNE	39 11						

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Tc
NOV 20 X	P	ZNE	16 01 12						
	S	ZNE	05 01						
	eL	ZNE	03.8						
	eT	ZNE	12.0						
27	eLq	E	17 11.7						
	eLr	ZNE	14.7						
28 ✓	iP	ZNE	02 44 51.0						
	eLq	NE	57.0						
	eLr	ZNE	58.9						
29	eP	ZNE	04 02 08						
	eS	ZNE	04 54						
	eT	ZNE	14 32						
30 X	iP	ZNE	09 05 59.2	unw					
	1S	ZNE	07 34.1	dse					
	eT	ZNE	13.5						
31 ✓	eP	ZNE	19 11 04						
	eS	ZNE	14 35						
32 X	e(S)	N	02 12.0						
	eL	ZN	22.6						
33 ✓	eP	ZNE	04 23 58						
	eS	ZNE	26 53						
	eL	ZNE	27.9						
	eT	ZNE	37 35						
34	P	ZE	16 17 22						
35	iP	ZNE	10 41 46.4	u					
	eLq	N	50 40						
	eLr	ZE	52.7						
36 ✓	iP	ZNE	16 40 41.9	u					
	eS	ZNE	41 12						
	eL	ZNE	28						
37	P	ZE	100 8						
38	eLq	NE	130+ 10						
	eLr	ZNE	130 8						
39	P	ZNE	01 27.4						
	eLq	NE	28.5						
40 ✓	iP	ZNE	05 13 05.5	us					
	eS	ZNE	14 33						
41 ✓	iP	ZNE	12 26 47.4						
	eS	ZNE	28 34						
42	P	ZNE	12 59 21						
43 X	iP	ZNE	14 13 30.9	usw					
	PcP	Z	14 54						
	PP	ZE	15 47						
	S	ZNE	21 32						
	ScS	ZNE	22 48						
	e	Z	24 36						
	eLq	ZNE	29.0						
	eLr	ZNE	30.7						
44 ✓	iP	ZNE	18 19 00.4	use 110+	2				
	eS	ZNE	19	very large					
45 ✓	eP	N	21 40 05						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Ts
DEC	epP	NE	42 15						
	PP	NE	44 22						
	epPP	NE	46 12			2.1 18		3.0 17	
	SKS	NE	49 50			2.5 15		3.0 16	
	(pSKS)	NE	52 25			10 18		15 15	
	sSKS	NE	53 56			10 23		13 22	
	PKKP	NE	56 15			6.0 18		8.0 20	
	eSS	NE	58 20			9.5 20		13.5 22	
	sss	NE	22 00 50			5.0 20		6.0 22	
	G	NE	08 40			4.0 22		4.0 35	
						14 28		9.0 50	
9	eP	ZE	14 18 14						
	S	ZE	19 52						
	e(T)	ZE	24.1						
10	e(L)	N	26.1						
	eL	ZE	26.7						
10	1P	ZE	16 59 09.1						
	eS	ZE	17 01 35						
	eL	ZNE	02 05						
	eT	ZE	12.0						
						3.0 20		4.0 20	
								2.5 28	
								4.0 15	
11	iP	ZE	13 56 38.6 u						
11	iP	ZE	17 54 52.5 d						
	S	ZE	56 56						
12	1P	ZE	10 16 00.0						
	S	ZNE	21 08						
	eL	ZNE	23.4						
						4.0 16			
						21.5 35			
						14 18			
								16.5 16	
								16 32	
15	iP	ZNE	02 39 50.7 u						
	eS	ZNE	41 23						
15	eP	Z	15 30 06						
	eS	Z	31 36						
17	iP	ZNE	11 10 29.5 ue						
	eLq	N	28 38						
						1.7 18			
18	1P	ZNE	03 04 00.7 d						
	P	ZNE	10 37 22						
	S	ZNE	39 59						
	eT	Z	47.2						
18	iP	ZNE	11 33 00						
	es	ZNE	35 14						
18	iP	ZNE	20 58 09.1 dse						
	is	ZNE	59 12.5 s						
19	e(S)	Z	13 08.5						
	eLq	ZN	11.3						
	eLr	ZE	13.0						
						2.0 40			
								4.0 20	
								2.0 20	
19	iP	ZNE	20 18 43.1 unw						
	is	ZNE	20 51.0 s						
20	eP	ZNE	08 34 09						
	S	ZNE	35 18						
	eT	ZNE	40 10						
20	1P	ZNE	08 50 09.7 u						

MANAWU 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Ts
		S	52 22						
21	1P	ZNE	00 55 54.9 unw						
	eL	E	21 20						
21	1P	ZNE	06 46 18 usw						
	S	ZNE	50						
21	e(L)	Z	07 06.8						
21	P	Z	08 53 29			2.6 15			
	S	ZNE	09 02 22			14 22			
	eLq	ZNE	09.5			3.0 22			
	eLr	ZN	12.4			24 30			
	M	ZNE	31.0			38 16			
22	1P	ZNE	00 56 45			13 12			
	S	ZNE	01 00 15			19 20			
	eLq	NE	40			21 16			
	eLr	ZNE	01 45			35			
22	P	ZNE	50			10			
22	1P	ZNE	01 28 30.1 use						
	S	ZNE	50						
22	P	Z	15 31 25						
	S	ZNE	39.9			26 22			
	eSS	ZNE	43.2			3.0 18			
	eLq	ZNE	47.2			4.5 22			
	eLr	ZNE	49.6			17 24			
	M	ZNE	6.5 18			4.5 15			
22	eP	Z	16 01.9			7.5 18			
			23 35 04						
23	eS	N	03 54.3						
			2.1 16						
24	eP	ZNE	11 45 07						
25	eLq	NE	12 37.1						
	eLr	ZE	40.0						
25	1P	ZNE	22 36 09			3.5 18			
	S	ZNE	45.5			7 24			
	eSS	ZE	49.9			14 25			
	eLq	ZNE	53.5			3.0 18			
	eLr	ZNE	56.0			15 25			
27	1P	ZNE	12.5 25			20 22			
	S	ZNE	43						
27	eL	Z	18 49.8						
29	1P	ZNE	04 22 33.7						
	S	NE	11 05.0						
	ePS	NE	07 14			1.6 22			
	eSS	NE	11.5			2.5 20			
	eL	NE	24.8			2.0 24			
29	P	ZNE	14 51 48			6.0 26			
	S	ZNE	52.5 une			11 26			
	eL	ZNE	55.05						
	eT	ZNE	55.3			7.0 10			
			10.0			17 18			
			22 16						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
DEC 30	eP	ZNE	13 26 33						
	eS	ZNE	29 04						
	eT	ZNE	40.5						
30	iP	ZNE	18 23 02.0 d						
	eS	ZNE	28 32	2.0 20		4.0 16			
	eLq	ZNE	31.0	5.5 28		11 26		3.5 10	
	eLr	ZNE	33.0	9.0 30		4.0 25		1.6 18	
								8.5 22	
30	eP	ZNE	22 53 33						
	eS	ZNE	55 56						
	eT	ZNE	23 06.3						
31	eP	ZNE	19 44 22						
	eS	ZNE	47 40						
	eL	ZNE	48.2	4.0 22	2.0 17	3.5 20		3.5 22	
31	eP	ZNE	21 48 29						
	eS	ZNE	51 10						
31	eP	ZNE	23 39 27						
	eS	ZNE	40 59						

RAOUL ISLAND

Trace amplitudes given in the column Az are in millimetres, measured on the screen of a viewer magnifying the original 35 mm film record by a factor of 8.

Date	Phase		h m s	Az	Date	Phase		h m s	Az
30 1	P	S	12 16 39	11	FEB 1	P	S	00 16 54	8
			17 35	20				17 12	46
2	iP		23 10 50	5		1	iP	00 40 34½	20
							iS	41 04	52½
3	P	S	17 38 24	4½±		1	P	01 12 02	7
			35	11½±			S	31	20
7	P	S	10 07 08	4½±		1	P	18 58 04	6
			37	19.4			S	37	12
7	P	S	10 11 31	26± u		1	iP	20 21 04	40+ u
			40	78±					
15	P		22 17 06	5		2	iP	03 47 03	22
							S	14	37+
16	eP	eS	11 36 05	90+		3	e(P?)	00 56 25	5
			37 10	63					
16	eP	S	14 51 58	11		3	P?	13 28 32	4
			52 05	7					
19	iP	iS	16 34 18	12		4	iP	01 02 51	18
			38	49			iS	03 25	54
25	(s)		01 55 49						
25	P	S	12 16 35			15	eP?	15 31 29	
			17 55						
26	P	S	13 56 30			15	e	15 32 49	
			46						
26	iP	S	16 25 32	14		19	P	11 06 55	4
			45	29			S	08 28	20
27	P	S	12 02 25	5		20	iP	10 09 01	25+
			43				S	21	9+
28	iP	S	05 43 12	7		21	P	00 07 02	18
			45 29	u			S	46	35±
30	(s)		15 06 33	5		21	iP	22 37 13	13
							S	32	32

No records February 5 - 14 owing to broken cable.

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase	h m s	Az	Date	Phase	h m s	Az
FEB 22	P	09 51 23	5	APR 7	P	23 54 55 ¹	13
	S	52 12	8		S	55 19 ²	25 ¹
25	P	06 40 38	10 ¹	8	iP	05 03 08	18 ¹
	S	41 18	16		IS	18	90 ¹
26	P	02 31 36		8	P	05 19 10	2.6
						00 26 35	35 ¹
MAR 1	P	23 45 12	10 ¹	9	iP	06 59 09	2
	S	10 35 13	6		e(P)	29	4.1
8	P	36 18	11		S		
	S			9	(s)	20 19 02	2.3
9	P	06 59 35	2				
	S	07 01 36	8	10	iP	13 11 05 ¹	14 ¹
					IS	13	4
9	P	17 31 02	6			large	
	S	32 01	11 ¹	10	P	17 12 25	
					S	31 ¹	
10	iP	04 59 56	23			41	3.2
	S	05 00 19	152±			4	
10	P	21 32 37	5	12	iP	12 54 17 ¹	17
					IS	33	4
18	iP	00 40 42		14	iP	00 41 03 ¹	10
					(s)	56 ¹	4
18	iP	01 27 16	25			5	
			d	14	P	10 04 25	20 ¹
18	P	03 10 33	4		IS	42	large
	S	36 37	17 ¹	14	P	16 32 25 ¹	5 ¹
19	P	15 35 45	4		IS	44	19
	S	36 37	17 ¹	16	P	14 05 48	4.5
24	iP	19 38 09	38		S	06 17	11
			d	18	iP	08 25 14	4.5
26	iP	05 22 37	30±		S	33	5.5
				18	S		
28	iP	01 53 26	27				
			d	19	P	22 19 24	4.5
28	iP	06 18 14	6		S	21 10 ¹	2.5
	S	58	12	20	P?	00 46 30	2.0
28	P	14 13 39	4			39 ¹	2.5
	S	14 22	6		e?		
30	iP	11 58 10		21	P	04 03 36	3.5
	S	30	d		S	56	6.0
30	iP	14 24 28	19	20	eP	07 47 52	8.8
	S	25 03	45		S	49 10 ¹	3.4
31	iP	07 48 18		21	P	14 33 32	2.0
			d		S		
APR 1	P	12 19 25 ¹	2.8	22	P	02 13 34 ¹	3.5
1	iP	18 48 20 ¹	6.0		S	06 44 31	2.7
			d	22	iP	54 ¹	3.1
2	iP	18 00 43	17 ¹		S		
	IS	01 04 ¹	12 ¹	22	e	19 28 33	2.7
3	P	16 30 30 ¹	2.7				
				23	P	06 10 12	3.6
4	iP	06 54 28	8				
	IS	51	u	25	P?	05 57 45 ¹	2.6
					S	58 19 ¹	

HAWAII ISLAND 1962

Date	Phase	h m s	Az	Date	Phase	h m s	Az
APR 25	P	07 53 48 ¹	5.5	MAY 17	e?	02 20 56	2.5
	S	12 ¹	9		e?	24 03 ¹	1.2
26	P	07 28 58	5.1	18	eS	02 53 22 ¹	3.4
	S	31 07	8.5				
27	P	06 32 17	2.6	18	iP	07 13 30 ¹	large u
	S	33 41	3.6		(s)	53	large
27	P?	16 29 47	2.3	19	P	21 51 40	3.0
	S	30 11	4.3		S	58 ¹	7.6
28	P?	15 13 35	2.8	20	iP	18 30 56	large u
29	P?	09 47 18	5.6	21	P	21 17 42 ¹	
	S	48 05	40±				
30	e	16 19 40 ¹	2	22	P	08 11 27 ¹	
		20 19	2.3		pP	51 ¹	
	eL	23.8	1.5		PP	12 46	
30	e			23	iP	08 20 22 ¹	
					S	21 15 ¹	29 ¹ u
31	iP	20 43 30	11 ¹	24	(P)	07 15 25 ¹	2.0
	(s)	40 ¹	large				
31	iP	20 44 42 ¹	large d	25	P	04 21 43 ¹	3.9
					S	23 25	4.8
31	iP	15 58 49 ¹	35± d	25	iP	14 20 12	27±
	(s)	59 05	82				
31	Pn	23 06 38		25	iP	17 23 40 ¹	8± d
		40 ¹			eS	24 56 ¹	3.6
31	iP	14 58 49 ¹	26 ¹	26	P	02 15 15 ¹	3.3
	(s)	07 02	70+		eS	17 15	3.7
31	iP	12 12 22 ¹	2.1	26	P	02 15 15 ¹	
	(s)	34	3.1		eS	17 15	
31	iP	21 46 55 ¹	134± d	28	eP?	16 11 56	1.0
	(s)	47 03	26 ¹				
31	iP	13 07 37	2.1	29	iP	00 10 30 ¹	
		40 ¹			S	46 ¹	5 d
31	e	08 13	4.0	29	iP	04 25 56	
		15 ¹	5.2		S	26 12 ¹	4 ¹ u
31	iP	14 58 00 ¹	55± d	31	iP	03 18 17 ¹	large d
		43			S	37 47 ¹	
31	iP	22 22 21 ¹	81±	31	P	08 37 47 ¹	large d
	(s)	43	11 ¹		S	37 47 ¹	
JUN 1	iP	06 01 52	1.2	31	P	09 36 13	7 ¹ ±
	(s)	02 14 ¹	2.3		S	23	32 ¹
31	e?	12 10 24	6	3	e?	09 08 39 ¹	3.5
31	iP	14 57 14 ¹	5.5 d	5	iP	14 57 14 ¹	5.5 d
	S	23 ¹	39 ¹				
31	iP	13 35 53	large u	8	(s)	01 36 37 ¹	3.4
31	P	05 33 31	2.4	9	iP	10 28 16	16± d
	PP	35 28 ¹	2				
31	P	17 37 50	2.2	9	eP	17 35 32 ¹	10±
					(s)	47 ¹	36±

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase	h m s	Az	Date	Phase	h m s	Az
JUN 10	e(S)	03 08 47	3.4	JUL 12	P	04 08 51	
11	e(P) S	04 38 43 39 00	2.6 8		eS	09 40	1.3
12	e?	13 49 21½	3.1	13	eP	04 11 54	
12	iP	20 53 12	large d	15	eP	12 40	16
13	P S	19 10 11½ 11 02½	3.1 3.4	18	(P)	14 43 57	2.5
14	iP S	13 50 02½ 22½	9½ u 34±	20	eP eS	16 29 28 31 04	1.0 1.5
15	iP S	05 18 47 19 15½	5.3 u 5.9	22	eP eS	18 11 20 12 33	1.3 1.5
19	S	15 50 26½	2.5	28	eP eS	00 08 22 10 48	2.0 2.5
19	P S	16 41 21 42 46½	4	AUG 1	iP	03 49 51.0	
20	S	00 08 55½	5	1	iP	50 00	
21	P (S) 1	08 40 35½ 42 08 11	2.6 5.5	1	iP eS	05 22 04.8 33.0	5.0 u
21	eS	10 23 04½	2	1	P S	12 39 35 40 04	12 16
21	P S	23 45 24½ 46 01½	2.6 5.5	1	iP eS	12 48 26.6 58	12 29
22	eP (S)	12 52 46 53 03	5 21±	5	iP eS	23 57 07 34	
24	iP	11 56 52½	large d	7	eP eS	00 43 30 56	7 22
25	iP S	01 33 45 35 02	3.4 u	8	iP	07 32 46	25
27	iP	08 18 04	large d	9	eP eS	21 45 53 46 27	1 4
28	P? S	20 50 26 52 17½	1.5 4.8	11	eP eS	01 39 48 41 33	11 16
30	P S	20 22 54½ 23 06	5.5 d 36	18	eP eS	04 03 34 05 03	5 6
JUL 1	P S	05 08 53 09 54	4 5	21	eP eS	07 09 22 32	10 20
3	eP	18 29 49½	2.4	21	iP	16 10 33	u
4	iP!	23 17 51	large	21	eP	21 06 19	
6	eP eS	13 28 52 29 40	5.5 14.5	21	iP	22 05 03	27 u
11	iP eS	16 53 26½ 55½	11 u	22	P	05 29 43	22 u
				22	eP	12 06 16	
				24	eP eS	06 48 47 50 07	12 6

Recording interrupted by recorder
motor trouble July 7 - 11.

11 iP
eS 16 53 26½ 11 u

NANZ ISLAND 1962

Date	Phase	h m s	Az	Date	Phase	h m s	Az
JUN 25	eP eS	08 33 52 35 34	10 25	OCT 26	eP eS	14 30 14 31	5 12
30	eP eS	17 19 53 21 24	6 11	28	eP eS	14 01 40 02 10	6 11
1	eP eS	05 56 13 59 44	35 4	NOV 1	eP eS	09 48 49 49 56	3 4.5
6	eP eS	18 07 07 37		1	eP	16 09 32	
10	eP eS	15 45 59 47 34		3	eP eS	05 26 13 20	4 10
13	eP e(S)	19 18 26 19 40	3½ 5	4	eP? eS	09 33 19 39	3.5 10
14	eP	17 23 39	13	9	eP eS	21 09 20 10 34	2 3
17	iP eS	17 57 46 59 18	>50 d	9	eP eS	13 15 48 16 23	4 6
20	eP eS	16 46 10 23	>50	9	eP eS	17 26 52 27 27	2 3
25	eP	12 45 24		10	eP eS	22 14 45 15 21	3½ 12
26	eP	12 49 13					
					No records from 11d 09h to 23d 00h because of cable break.		
27	eP eS	03 59 26 04 01 40		23	e	13 23 53	3
28	eP eS	13 17 55	5	23	P	19 41 13	
29	eP eS	18 42 57		23	iP eS	23 07 43 09 17	
30	eP eS	19 05 59		24	eP eS	04 13 02 21	
31	eP	20 41 44		26	eP eS	16 00 14 01 20	6 10
32	eP e(S)	00 30 58 31 46	7	26	eP eS	16 03 37 04 52	2 3½
33	eP e(S)	14 00 47 01 34	5 7	28	eP eS	09 10 33 56	5 13
34	eP eS	17 30 46 31 03	>25	29	iP	03 58 54	
35	eP eS	15 29 02 23	9	29	eP eS	09 05 38 06 59	2½ 5
36	eP e(S)	17 15 18 16 01	3	29	iP	19 10 42	7
37	eP	21 19 06		29	eP	19 17 29	
38	eP eS	13 40 11 40	5 10	DEC 4	iP	04 17 10	
39	eP eS			21	eP eS	21 05 18 07 15	3 4

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase	h m s	Az	Date	Phase	h m s	Az
DEC 6	eP	20 23 37	5	DEC 19	eP	11 02 11	11
7	eP	12 56 22	6		eS	31	25
	eS	58	10	19	eP	20 17 32	4
✓ 7 X	iP	14 14 15	5 d		eS	18 31	
9	eP	14 17 45	1½	20	eP	08 34 55	2
	eS	18 58	7		eS	36 37	3
9	eP	20 57 19	1.5	20	eP	08 49 10	2.5
	eS	59 12	4		eS	50 32	4
10 X	iP	16 56 40	>25 u	22	eP	00 55 30	4
	e(S)	57 10	large		e(S)	57 37	1½
11	eP	17 53 02	5 u	22	eP	14 13 11	8
	e(S)	50	25		eS	36	25
12 X	eP	10 16 10	2.5	29 X	iP	14 48 11.5	4
				29	eP	15 21 09	5
15	eP?	15 30 32	1		eS	29	12
	eS	32 31	2	29	eP	18 14 33	6
16	eP	21 09 08	2		eS	18 20 12	12
	eS	29	5	30	iP	13 23 44	10
16	eP	20 57 27	5		eS	24 12	25
	eS	55	18		P	Z	00 33 29
17	eP	06 39 00	6		S	NE	41 37 u
	eS	11	18		L	ZNE	48.1
17	eP	17 13 54		30	iP	22 51 04	u
					(S)	Z	06 11 32
18	eP	03 52 16	5	31	iP	03 10 57	u
					(S)	NE	13 08
18 X	iP	10 34 31		31	iP	21 45 38	8
	e(P)	11 32 44			e(S)	46 01	u
	e(S)	34 03			P	Z	08 18 02
				31	eP	23 39 06	
					eS	40 14	
				7	PKP	Z	26 11 11
							20 22 57
				7	eP	Z	22 10.8
					eL	ZE	31
				8	PKP	ZE	01 20 10
					PS	ZNE	29 47
					SS	Z	37.0
					L	ZNE	54.7
				8	eP	Z	05 51 36
					pP	Z	52 15
				9	ePS	ZE	13 10 08
					eSS	ZNE	16 30
					eL	ZNE	45.5
				11	iPKP	Z	05 24 47 d
				11	e	Z	18 26
							1 16
				12	eL	NE	11 39
					M	E	43
				13	eL	E	11 20 30
							1 17
				13	e	ZNE	11 46 53
							2 18

The amplitudes given on this section of the report are in millimetres,
read directly from the photographic paper records.

HALLETT STATION

h	m	s	Az	Tz	An	Tn	Ae	Te
18	4	15	ZNE	00 15	3	30		
4	eL	ZNE	05 31					
M	Z	32 26	10 24					
5	P	Z	00 33 29				8	15
S	NE	41 37 u					25	35
L	ZNE	48.1						
5	i(P)	Z	06 11 32					
(S)	NE	13 08						
5	P	Z	08 18 02					
S	E	26 11						
7	PKP	Z	10 22 57					
7	eP	Z	22 10.8					
eL	ZE	31	1 15					
8	PKP	ZE	01 20 10					
PS	ZNE	29 47						
SS	Z	37.0						
L	ZNE	54.7	4 30					
8	eP	Z	05 51 36					
pP	Z	52 15						
9	ePS	ZE	13 10 08					
eSS	ZNE	16 30						
eL	ZNE	45.5						
11	iPKP	Z	05 24 47 d					
11	e	Z	18 26					
							1 16	
12	eL	NE	11 39					3 16
M	E	43						
13	eL	E	11 20 30					1 17
13	e	ZNE	11 46 53				2 18	

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Tz
JAN 16	iP	ZNE	11 43 37 d						
	ePcP	ZN	45 21						
	iPcS	N	49 22						
	iS	ZNE	59						
	i(SS)	ZNE	53 22						
	eL	ZNE	54						
	M	Z	56	23	25				
16	eL	ZE	11 46.5						
17	eL	ZN	13 59		2 16				
17	iP?	Z	16 11 00						
17	eL	ZE	16 17						
19	e	E	22 19						
21	eL?	ZNE	07 40.3						
	M	E	45.5						
21	iP	Z	13 00 37 u		6 13				
	e(PcP)	Z	55						
	iS	E	07 45						
	e?	E	14 52						
21	eL?	ZNE	15 29.2						
	M	N	30	5 11					
23	eL?	ZNE	09 08.9						
	M	E	09.4		6 12				
25	iP?	Z	02 00 27						
	e	NE	08 56						
	eL	ZNE	20						
26	eL	ZNE	09 32						
26	eL	ZN	12 08						
26	eS	N	14 51 30						
	eL	ZN	58						
	M	E	15 04	5 18					
28	iP	Z	05 49 48 d						
	ePP	NE	51 55						
	iS	ZNE	57 42						
	eScS	NE	06 00 00						
	eSS	Z	01 20						
	eL	ZNE	04	7 17					
	M	Z	23	4 16					
28	i	Z	20 42 52						
	e	ZNE	44½						
30	eL	ZE	09 24		2 26				
FEB 1	iPcS	N	00 53 35 d						
	iS	N	54 06						
	eSS?	N	56 40						
	eL	ZNE	58 15		10 14				
	M	N	11½	11 15					
3	iP	ZNE	00 49 31 d	11	12				
	ePPP	NE	54 25						

VALLEY STATION 1962									
Date	Phase		h m s	Az	Tz	An	Tn	Ae	Tz
	iS	NE	59 06						
	IScS	N	58						
	iSS	NE	01 03 30						
	e(Lq)	Z	08 7						
	eLT	ZNE	13						
	M	Z	22	33	12				
	eL	N	03 42						
	iP	Z	12 00 33 u						
	IS	E	09 57						
	e(ScS)	N	10 29						
	eL	ZNE	22						
	M	N	32						
	eL	ZN	13 30½						
	iP	ZNE	19 06 24 d						
	ePP	N	08 50						
	iS	NE	15 25						
	eScS	Z	16 03						
	eSS	ZNE	19 52						
	eL	Z	25						
	eLq	ZNE	28	12	35				
	M	N	41						
	eL	ZNE	01 51						
	iP	ZNE	06 46 25 d	63	17				
	ePcP	N	47 13						
	e(PP)	Z	48 25						
	ePcS	ZN	51 07						
	iS	ZNE	54 43						
	eSS	ZNE	59 50						
	M	N	07 11	77	28				
	M	Z	18	84	15				
	iS	N	10 13 35 u						
	eL	ZNE	26						
	M	Z	28	4	19				
	eL	E	14 06						
	iP	ZNE	03 46 29 d						
	eL	ZNE	49						
	eL?	ZN	10 56 15						
	eL?	N	19 26						
	eL	NE	10 42.8						
	eL	ZN	05 28						
	eL	ZN	17 04						
	eL	ZNE	20 29						
	M	Z	31	6	16				
	eL	ZNE	22 57						
	M	Z	23 02						
	iS	N	09 59 00 u						
	eL	NE	10 00						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
FEB 22	eL	ZNE	06 13		3 35				
23	eL	Z	12 13		2 23				
23	eL	ZN	18 40		2 17				
23	iS	NE	20 42 00 u						
	iScS	NE	43 12						
	eSS	E	46 25						
	eL	ZNE	52						
	M	Z	21 06		7 17				
24	e(L)	ZN	20 08		2 25				
26	eL	Z	02 51						
MAR 1	iS	ZE	23 59 15 u						
2	eL	ZE	00 06						
	M	Z	11		13 21				
2	e	ZNE	01 45 23						
3	eL	ZNE	13 01		3 22				
4	e	ZNE	11 43			9 55			
4	e	ZNE	18 34 01						
5	e	Z	10 47						
6	eL	Z	06 45		1 25				
6	e	ZN	14 20		4 19				
7	iP	Z	11 13 09 d						
	ISKS	ZNE	22 40						
	iS	ZNE	23 21						
	iSP	ZNE	24 39						
	eSS	NE	29 40						
	eSSS	NE	32 35						
	eL	Z	40						
8	eL	ZN	10 52		3 18				
8	iS	E	21 05 41						
	eL	ZNE	13		2 22				
8	eL	ZN	22 36		2 18				
9	iP	Z	22 18 32 u						
	iS	Z	27 31						
	eL	ZN	40		4 31				
10	iP	Z	01 15 09 d						
	eL	ZNE	17 20						
	M	Z	18		15 17				
10	eL	ZN	12 41		1 28				
10	iP	Z	22 17 03						
	eL	ZNE	18 55						
	M	Z	19 20		11 22				

MELBOURNE STATION 1962			h m s	Az	Tz	An	Tn	Ae	Te
MAR 11	eL	ZN	07 46.7						
	M	Z	50		4 20				
11	iP	Z	19 31 46 u						
	esKS	Z	41 54						
	iS	N	42 28			13	28		
	eL	ZNE	56.3			11	49		
	M	Z	20 10						
12	isKS	E	12 05 05 d					13	20
	1PS	ZE	07 37		8 24				
	iS	ZE	13 16					16	21
	eL	ZNE	28						
	M	Z	34		14 18				
18	eL	ZNE	03 31 30						
	M	Z	35		18 18				
18	1PKP	Z	15 50 08 u						
	eL	ZN	49		7 20				
	M	Z	56						
19	iS	NE	04 57 00						
	eL	NE	30						
	M	E	58.5					20	13
19	iP	Z	06 00 20 d						
	1PP	Z	08 54						
22	eP?	Z	00 30 28						
22	iP	ZNE	15 24 29 u		7.5 13				
	1PcP	NE	25 12						
	ePP	Z	28 03						
	iS	ZNE	33 43					11	21
	esCS	E	34 36						
	eSS	NE	38 27						
	eSSS	E	41 56						
	eLq	ZNE	46					42	33
	eLr	ZNE	49						
	M	Z	53		49 18				
22	iP	Z	19 10 09 d						
	1PcP	Z	35						
23	eL	Z	06 07		1.5 17				
26	iP	Z	16 42 41 d						
	1S	ZNE	50 50						
	esCS	N	52 47						
	iS	ZNE	54 03						
	eL	ZNE	17 00						
	M	Z	06		13 17				
27	eL	Z	22 12		1 19				
28	eL	Z	04 47		1.5 21				
28	eL	ZN	14 32		1.5 17				
28	eL	Z	18 58		1 18				
29	iP	Z	20 20 52 u						
	iS	N	31 24						
	ePS	N	32 29						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Ts
MAR	eLq	Z	46						
	eLr	ZNE	50						
	M	Z	54						
30	eL	ZNE	08 20			1.5	17		
31	eL	Z	08 29			1.5	19		
APR 1	eL	Z	01 51			2	21		
1	eL	ZNE	04 59						
1	iP	Z	12 22 30 d						
	ePcP	Z	55						
	ePP	Z	25 08						
	iS	ZNE	31 22						
	eScS	ZN	51						
	eSS	N	35 53						
	eLq	ZN	40						
	eLr	ZNE	44.5						
	M	Z	50						
3	iP	Z	16 35 14						
	eL	ZN	56						
4	iP	Z	09 35 58						
4	eL	Z	16 53						
7	iP	Z	06 33 58						
	eL	NE	07 10						
9	iP	Z	09 05 29 u						
10	iP	Z	04 47 37 u						
10	iP	Z	12 45 10						
10	iP	Z	14 19 39 u						
10	e	Z	16 27 40 d						
10	iP	Z	17 16 25 u						
12	iPKP	ZNE	01 12 03 u						
	ePP	ZN	13 29						
	iPKS	ZN	15 46						
	iSKS	ZNE	18 01						
	eSKKS	NE	19 48						
	iPKKP	ZNE	21 35						
	ePS	ZE	23 28						
	ePPS	NE	25 50						
	e?	NE	27 37						
	eSS	ZNE	30 55						
	eSSS	ZE	36 22						
	eLq	ZNE	43						
	eLr	ZNE	47						
	M	Z	55						
14	e?	Z	09 29 12						
15	e(P)	Z	17 50 16						
15	e(P)	Z	18 08 39						

BULLETIN STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Ts
APR 15	eL	ZN	19 35.5						
	M	N	42						
15	iP	Z	22 40 08 d						
	eL	ZN	23 01						
16	iP	Z	11 45 26						
	eL	N	18 19 40						
		ZNE	27						
16	e(P)	Z	23 29 16						
17	e(P)	Z	13 17 07 d						
17	iP	Z	13 50 10 d						
	eL	NE	58						
18	iP	ZE	19 27 20 d						
	ePP	Z	30 48						
	iSKS	ZNE	37 49						
	eS	ZNE	38 03						
	ePS	ZNE	39 06						
	eSS	ZNE	44 02						
	eLq	ZN	51						
	eLr	ZNE	54.5						
	M	Z	57						
18	e(P)	Z	21 39 08						
19	iP	Z	02 31 43						
19	eL	ZE	20 59						
19	iP	Z	22 24 43 u						
	iS	NE	32 20						
	e(SS)	E	38 52						
	eL	NE	41						
19	e?	Z	23 35 37						
20	iPKP	Z	06 06 41 u						
	ePP	ZE	07 53						
	iSKS	NE	13 33						
	eSKKS	ZN	14 52						
	iPKKP	Z	17 04						
	iPS	ZNE	36						
	eSS	ZNE	24 08						
	eSSS	ZE	27 35						
	eLq	ZE	38						
	eLr	ZNE	43						
	M	Z	54						
21	iP	Z	21 28 58						
22	iP	Z	02 19 07						
	ePcP	Z	23 54						
22	iP	Z	04 39 11 u						
22	iP	Z	16 49 18 u						
23	e?	Z	05 22 34						
23	iPKP	Z	06 16 50 u						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
APR	iPP	ZNE	17 39	28	22				
	ePKS	ZNE	20 24						
	eSKS	NE	23 38						
	eSKKS	NE	24 03						
	ePS	ZNE	27 23	25	19				
	eSS	ZE	33 40						
	eSSS	ZN	34 20						
	eLq	E	47½						
	eLr	ZNE	52						
	M	Z	55	89	38	17	48		
23	iP	Z	21 17 12 u						
24	iP	Z	16 19 27						
25	eL	Z	12 57		1 20				
25	eL	ZNE	16 39½						
	M	Z	46						
26	iP	Z	07 35 06 d						
	ePP	Z	36 55						
	eS	N	43 15						
	eSS	N	45 43						
27	iP	Z	06 56 59 u						
	iS	N	07 04 46						
	eL	ZNE	13						
	M	Z	18						
27	i(P)	Z	20 04 47 u						
28	e?	Z	07 03 40						
28	iPKP	Z	11 38 25						
	eL	ZN	12 42						
	M	Z	45						
30	iPP	Z	02 45 44						
	ePKS	Z	47 55						
	iPS	N	55 25						
	eSS	NE	03 02 57						
	eL	ZN	21						
	M	Z	42						
30	eP?	Z	05 00 57						
30	iP	Z	06 33 58						
30	iP	ZNE	16 26 21 u						
	ePcP	Z	27 30						
	ePP	ZNE	28 27						
	ePcS	ZN	31 27						
	iS	ZNE	34 04						
	eSS	N	37 25						
	eLq	NE	41						
	eLr	ZNE	43						
30	iP	ZN	18 40 24 u						
	iS	ZNE	48 12						
	eScS	N	49 42						
	eSS	Z	51 33						
	eL	ZNE	56½						
MAY 1	iPKP	Z	00 08 56						

WELLINGTON STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
MAY 2	iP	Z	09 08 06 u						
2	iP	Z	12 44 48 u						
2	iP	Z	20 52 07 u						
2	e?	Z	02 47 36						
3	iP	ZN	03 43 21 u						
	ePP	ZN	45 12						
	iS	ZNE	50 16					16	16
	eSS	ZNE	53 42						
	eL	ZNE	57						
	M	N	04 07					40	15
3	iPKP	Z	14 07 16 u						
3	iP	Z	17 09 12 d						
	eL	ZNE	29						
	M	N	32					3	16
4	e(P)	Z	22 20 18						
4	iP	Z	11 13 12 u						
4	eL	N	17 19.5					2	15
5	eL	NE	03 30					1	21
5	eL	NE	03 39.5					2.5	15
5	eL	NE	04 12.7					3	16
5	eL	NE	04 21					1.5	18
5	e?	Z	05 13				3	96	
5	iPKP	Z	11 30 47						
5	iP	Z	23 13 52 u						
	eL	ZN	20					1	20
6	i(P)	Z	03 12 41						
6	iS	N	03 24 46 d						
	eL	ZNE	26.5					12	14
6	iS	N	03 44 31 d						
	eL	ZNE	45.7					45	15
6	eL	N	13 48					2	15
6	eL	ZN	14 45						
6	iP	ZNE	19 08 42 d						
	ePcP	ZN	10 14						
	ePP	ZNE	36						
	iS	ZNE	15 39						
	eScS	N	18 04						
	eSS	ZNE	27						
	eLq	ZN	19.7						
	eLr	ZNE	22						
	M	ZN	34						
6	iP	Z	155 13						
			176 12						
			22 02 21						

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Date	Phase		h m s	Az	Tz	An	Tn	Ae	T _e
MAY 7	e(P)	Z	15 43 35 d						
7	iPP	ZN	17 59 55 d						
	ePKS	Z	18 02 20						
	eSKS	ZN	05 40						
	ePS	ZNE	09 45	3	16				
	eSS	ZNE	16 15						
	eSSS	ZNE	20 58						
	eL	ZNE	35 1/2						
	M	Z	42						
				9	22				
7	iP	Z	19 12 12 d						
9	e?	Z	01 18 02						
9	e?	Z	09 02 13						
10	iPKP	Z	00 22 51						
10	iP	ZN	00 33 30 d						
	ePP	ZN	34 27						
	ePcP	Z	36 52						
	iS	ZNE	38 39						
	eSS	Z	40 30						
	eLq	Z	41	6	15				
	eLr	ZNE	42 1/2						
	M	N	50						
				4	28				
						42	14		
10	iP	Z	04 41 10						
	eL	ZNE	45						
10	eL	ZNE	06 10						
	M	Z	15						
10	e?	Z	22 02 04						
11	iP	Z	07 16 44 d						
11	iP	Z	12 15 37 d						
11	iP	Z	13 43 35 d						
11	iP	Z	14 26 10 u						
	iPP	ZE	30 31	6	23				
	ePPP	ZE	32 39						
	ePKS	Z	33 44						
	iSKS	ZNE	36 50						
	eSKKS	N	38 09						
	ePS	ZNE	39 40						
	ePKP	E	14 41 55						
	eSS	ZNE	45 33						
	eSSS	Z	49 40						
	eL	ZNE	15 02						
				21	26				
						52	26		
11	e?	Z	16 43 00						
12	e?	Z	01 55 07						
13	e	Z	06 58 58						
13	iP	Z	10 57 57 d						
13	eL	N	14 47						
13	e(P)	Z	16 35 38 d						
				1	17				

WELLINGTON STATION 1962									
Date	Phase		h m s	Az	Tz	An	Tn	Ae	T _e
15	e	Z	55						
15	iP	Z	01 34 35						
14	iP	Z	10 44 39 d						
14	iP	Z	23 31 16						
14	iP	Z	00 55 46 d						
15	iP	ZNE	58						
15	eL	ZNE	05 34 56 d						
15	e	ZNE	35 30						
15	iP	Z	37 35						
15	ePP	ZN	39 26						
15	iS	ZNE	43 50						
15	eSS	ZNE	48 55						
15	e(SSS)	Z	52 10						
15	eL	ZNE	55						
15	M	Z	06 00						
15	iP	Z	158 25						
15	iP	Z	06 54 09 d						
15	iP	Z	10 06 26 d						
15	iP	Z	17 05 12 d						
15	eL	ZNE	30						
15	e	Z	23 00						
15	M	Z	24 00						
15	iP	Z	05 26 40 u						
16	iP	Z	09 37 52						
16	eL	E	40.4						
16	iP	Z	14 46 38 d						
16	iP	Z	17 42 53						
16	iP	Z	21 47 15 d						
16	iP	Z	23 14 55 d						
17	e	Z	01 13 38						
17	iP	Z	02 26 11 d						
17	eL	ZNE	34.5						
17	M	Z	42						
17	iP	Z	5 13						
17	iP	Z	04 14 29						
17	eL	ZNE	21						
17	iP	Z	11 13						
17	iP	Z	09 31 23						
17	iP	Z	16 09 46						
17	i(PcP)	Z	14 40						
18	iP	Z	07 20 45 u						
18	iP	Z	07 59 58 u						
18	iP	Z	14 57 48 u						
18	iP	Z	22 57 49						

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Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
MAY	iS	ZNE	23 00 59						
	eL	ZNE	02.5						
18	iP	Z	23 28 42 d						
	eL	Z	36						
19	e?	Z	08 56 58						
19	iP	Z	15 12 32 u						
	iPKP	Z	16 42						
	ePP	ZE	52						
	ePPP	E	19 10						
	iSKS	ZNE	23 10						
	ePS	ZNE	26 04						
	ePPS	Z	27 09						
	ePKKP	ZNE	39						
	eSS	ZNE	32 12						
	eSSS	ZN	36 30						
	eLq	ZNE	42.8						
	eLr	ZNE	48.5						
	M	Z	54						
20	iP	Z	00 09 01 u						
20	iP	Z	06 59 09 d						
20	iP	Z	08 17 28 d						
20	iP	Z	17 02 00 u						
20	iP	Z	18 38 38 d						
21	iPKP	Z	12 21 42 u						
	e?	Z	22 53						
	ePP	ZE	23 18						
	ePPP	ZN	25 47						
	eSKS	Z	28 34						
	ePKKP	Z	31 43						
	ePS	ZNE	33 49						
	ePPS	ZE	34 26						
	eSS	ZNE	40 00						
	eSSS	NE	43 14						
	eLq	NE	53						
	eLr	ZNE	13 02						
	M	Z	20						
				17	18				
						11	53		
21	iPKP	Z	12 34 31						
21	iP	ZNE	21 24 15 u						
	ePcP	ZNE	25 47						
	ePP	ZN	26 18						
	ePPP	ZNE	28 40						
	iS	ZNE	31 42						
	eScS	ZNE	34 00						
	eSS	ZNE	35 50						
	eL	ZNE	40						
	M	Z	53						
				47	16				
22	iP	Z	00 29 42						
22	iP	Z	04 45 52 d						
	iS	ZNE	50 18						
	eL	ZNE	51.5						
22	iP	Z	08 00 18 u						

MILITARY STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
MAY 22	iP	ZNE	08 16 34 u						
	ePcP	N	18 23						
	ePP	ZNE	52						
	ePPP	Z	20 23						
	ePcS	Z	21 27						
	iS	ZN	24 41						
	eScS	E	27 07						
	eSS	N	28 44						
	eL	ZNE	35						
	M	Z	39						
						20	20		
								26	29
22	e	Z	11 04 22						
22	iP	ZN	22 14 37 d						
	ePcP	Z	16 00						
	ePP	Z	17 19						
	iS	ZNE	23 26						
	eScS	E	24 51						
	eSS	ZNE	27 56						
	eL	ZNE	35						
	M	Z	44						
						6	17		
23	iP	Z	06 45 01 u						
23	iP	Z	08 27 01 d						
	e(PcP)	Z	28 29						
23	e	Z	18 19 47						
23	iP	Z	20 54 37 d						
	eL	ZNE	21 04						
						2	22		
23	iP	Z	21 10 46 d						
	eL	ZNE	20						
						1	21		
24	e	Z	01 54 56						
24	iP	Z	02 22 31 u						
	eL	ZNE	09 18						
						1.5	21		
24	e	Z	16 13 12						
24	e	Z	20 08 03						
25	iP	Z	04 28 47 d						
	ePcP	Z	29 54						
	iS	NE	36 42						
	eScS	N	37 27						
	eLq	E	42.3						
	M	Z	46						
			50						
						9	18		
25	iP	Z	07 14 55						
25	iP	Z	09 51 26						
						14	27 35		
25	iP	Z	17 29 54 u						
25	iP	Z	21 40 15						
	ePcP	Z	44						
26	iP	Z	02 21 29 d						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
MAY 26	iP	Z	13 00 44 d						
26	i(P)	Z	19 42 17 d						
	i(S)	Z	44 10						
26	iP	Z	19 57 26 u						
26	i(P)	Z	22 16 29 d						
	i(S)	Z	18 22						
27	iP	Z	05 42 10 d						
27	iP	Z	14 42 06 u						
	eL	ZNE	58	3	15				
27	e	Z	23 08 35						
28	i(P)	Z	01 49 04 u						
28	eL	ZN	03 44		1 20				
28	iP	Z	16 18 24						
29	iP	Z	00 00 00 d						
	eL	Z	30	1	20				
29	e	Z	07 09 02						
29	eL	ZNE	20 59						
29	iP	Z	22 03 01 d						
	iS	ZE	11 32						
30	e	Z	04 32 18						
30	e(L)	ZNE	05 19		1.5 20				
30	eL	Z	11 15		1 26				
30	iP	Z	17 06 19 u						
31	iPKP	Z	02 15 34						
	ePP?	Z	17 10						
31	iP	Z	03 25 58 u						
31	iP	Z	06 41 26 d						
	e?	Z	42 25						
	ePP	Z	45 15						
	ePPP	Z	46 37						
	iSKS	ZNE	51 39						
	iS	NE	52 20						
	e(PS)	ZNE	53 46						
	ePPS	ZNE	55 16						
	ePKKP	ZN	58 08						
	eSS	ZNE	57	10	17	4 15			
	eSSS	ZNE	07 00 40			5 35			
	eLq	ZE	09						
	eLr	ZNE	13						
	M	N	24		3 16				
31	e	Z	08 11 22						
31	iP	Z	08 45 19						
	eL	ZNE	57	2	23				

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
31	e(P)	Z	08 57 30 u						
31	iP	Z	21 29 23 u						
31	iP	Z	13 18 55 u						
31	e	Z	03 38 20						
31	iP	Z	05 47 48						
31	eL	ZN	06 10						
31	eL	ZN	13 25.5			1.5 25			
31	eL	ZN	18 07			3.5 22			
31	eL	ZN	19 32			1 22			
31	iP	Z	13 53 22						
31	eL	ZNE	16 03						
31	eL	Z	14			3 21			
31	eL	ZE	23 17			1.5 18			
31	iP	Z	16 54 44 u						
31	eL	Z	17 13						
31	iP	Z	02 39 40						
31	e	Z	04 07 39						
31	iP	Z	08 58 05 d						
31	iP	Z	10 43 21						
31	eL	ZN	05 50			1 15			
31	e	Z	16 40 04						
31	iP	Z	01 40 42 u						
31	iP	Z	19 30 12 u						
31	iP	Z	20 58 29 u						
31	eL	ZN	21 23			1 19			
31	iP	Z	07 52 54						
31	iP	Z	02 15 57 u						
31	iP	Z	04 43 44 d						
31	iPKP	Z	07 35 23 u						
	eL	ZNE	08 29						
	e	Z	04			2 22			
31	iP	Z	17 12 27 u						
31	iP	Z	13 55 20 d						
31	iPKP	Z	08 10 55 d						
	eP	Z	12 57						
	ePKS	ZN	14 18						
	iSKS	ZN	17 52						

STATION 1962

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
23	ePP	ZNE	28	27							
	eSKS	ZNE	35	55							
	eS	N	36	52							
	eS	ZNE	37	23							
	ePS	ZE	38	12							
	ePPS	NE	42	40				12	19		
	eSS	NE	46	40							
	eSSS	Z	53								
	e(Lq)	ZNE	57			11.5	20				
	eLR										
25	eP	Z	13	01	58						
	ePS	Z	13	56							
	eL	ZNE	28	1				17	16		
26	1P	Z	10	05	22 u						
27	eP	Z	03	40	53						
27	1P	Z	13	43	26 u						
27	1P	Z	13	46	04 u						
	eS	NE	52	15							
	eL	ZNE	57			10	16				
27	eP	Z	19	59	00						
28	1P	Z	04	39	39 u						
	eL	NE	05	10							
28	1PKP	Z	07	40	39 u						
28	eP	Z	09	09	41						
	eL	NE	12	1							
28	1P	Z	19	02	19 d						
	1PP	Z	05	08	d						
	eL	ZNE	38			3	30				
28	eP	Z	20	56	44						
29	1P	Z	03	39	21 d						
	eS	N	46	55							
	eL	NE	59					1.5	16		
29	eP	Z	10	38	19						
29	1P	Z	14	00	19 d						
29	eL	ZN	17	37		1	20				
	M	N	59								
29	1P	Z	21	07	18						
	eS	NE	14	40							
	eL	ZNE	22					5	17		
30	eP	Z	19	43	11						
	ePP	Z	46	58							
	eL	NE	20	17							
	M	N	30								
31	1P	Z	01	41	50 d						
31	eP	Z	05	16	24						
31	1P	Z	13	03	11 d						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUL	eL	ZNE	05		2.5 17				
1	eL M	ZE Z	22 27. 37		1 18				
2	iP ePcP ePP ePcS eS ePS eScS eSS eSSS eLq eLr M	Z ZN Z Z ZN ZE E ZNE ZNE E ZNE Z	08 42 49 d 43 17 45 28 47 10 51 00 45 52 23 55 20 58 35 59 ¹ 09 02 11 ¹ 11 ¹ 6		9 38	8.5 33			
3	iP	Z	06 33 17 u						
3	eP e eS eL	ZE Z ZNE ZNE	18 19 00 20 55 23 30 24			50.5 15			
3	iP e eS eL	Z Z ZNE ZNE	18 28 19 u 29 42 33 22 34 ¹		94 14				
4	iP	Z	13 05 32 u						
6	eL M	ZNE Z	03 04 11 ¹		4 18				
6	eL M	ZNE Z	10 28 40		4 19				
6	iP	Z	12 21 46 d						
6	iPKP epPKP ePP epPP e? eSKS eSKKS e(PKCP) ePS ePSS eSS esSS eSSS eLq eLr M	Z Z Z ZNE Z ZE ZE ZNE ZE ZE ZE ZE ZE ZE ZE ZE ZNE Z	23 24 25 d 25 11 26 17 27 11 28 15 31 07 32 40 34 13 35 34 38 00 43 12 45 12 47.0 59 24 05 21 ¹		19 17				
7	e? iPKP eL M	Z Z ZNE Z	06 31 40 47 d 07 11 17		4 21				
7	iP	Z	11 58 29 u						
7	iP	Z	19 24 31 u						

WELLINGTON STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
5	eS eSS eL M	N ZNE ZNE Z	04 20 41 23 40 29 ¹ 40		2 17				
6	iP	Z	20 29 27 u						
9	iP eL	Z ZNE	10 03 07 d 06 ¹					2	15
9	eL	ZNE	14 46		2.5 16				
10	iP	Z	04 31 28 u						
10	iP	Z	05 20 25 d						
11	iP ePP	Z Z	12 53 29 u 56 57						
12	iP	Z	10 42 03 d						
12	eP eL	Z ZNE	23 03 43 27					2	27
13	iP ePP eL M	Z Z ZNE Z	03 44 40 d 46 05 04 15 21 ¹		4.5 22				
13	iP	Z	04 18 22 u						
14	eL	ZE	15 20 ¹		1.5 18				
14	eL	Z	17 01		1 19				
14	eL	Z	20 41		1.5 18				
15	iP	Z	09 46 30 u						
15	eL	N	09 52					1	19
15	iP	Z	19 43 18 d						
15	eL	Z	22 50		1 20				
16	iP ePP ePcP eS eL	ZNE Z Z ZNE ZNE	02 10 12 u 52 14 22 48 15 ¹		20 12			32	10
16	eL	ZNE	05 29		2.5 19				
16	iP	Z	09 35 39 d						
16	ePKP ePP eL	Z Z ZNE	13 43 35 46 47 14 04		1.5 19				
16	eL	Z	16 43		1 23				
17	iP eS eScS	ZE NE N	05 41 50 ue 49 45 es 50 12 e 51 53						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUL	eSS	N	53 38						
	eL	NE	57						
	eM	Z	06 03	4.5 17	3.5 16	4	16		
18	iP	Z	01 32 05 u						
18	iP	Z	06 04 53 d						
18	iP	Z	09 34 03 d						
18	iP	Z	10 23 07 d						
19	eP	Z	01 03 09						
19	eP	Z	04 09 45						
19	e(P)	Z	23 57 58						
21	eL	N	10 38.7		4.5 18				
22	e	Z	00 28 50						
22	e	Z	00 32 24						
22	eM	ZN	01 00	3 18	3 18				
22	iP	Z	13 47 17.1						
23	eP	Z	23 18 59						
24	ePP	Z	21 26 48						
	e	E	33.0						
	e(S)	E	33.7						
	e(PS)	Z	36.6						
	esSS	ZE	42.6						
	eSSS	Z	45.9						
	e	Z	58.6						
	e	N	22 16						
25	eP	Z	00 24 19.5						
	e	Z	37 d						
25	eP	Z	04 56 18						
	eSKS	ZE	05 06 55						
	e	E	07 17						
	e	E	48						
	eSKKS	Z	08 10						
	e	ZNE	13.6						
	e	ZE	19.8						
	eSSS	Z	21.2						
	eL	N	25.7						
	eLr	ZE	31.8	6 23	5 28	6 22			
25	eP	Z	06 17 37						
	e	Z	54						
26	eP	Z	02 46 22						
26	eP	Z	07 11 55						
26	eP	ZE	08 28 38	3.3 11	1.5 19	1.1 15			
	ePP	ZNE	32 48	11.5 20	5 10	5 10			
	eSKS	NE	39 12						
	eS	NE	40 30		40 23	18 26			
	e	ZE	41 54	27 22	54 20				

WAIKAKI STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUL	ePS	N	44 00					14	13
	ePKKP	Z	45 03						
	eSS	ZNE	47 31	66	30	65	23		
	eSSS	ZNE	51 28	28	26	32	25	18	26
	eLq	NE	57					68	44
	eLr	ZNE	09 02	112+	28			104+	30
26	eP	Z	21 41 22						
	eSS	ZE	53 50	0.5	12				
	eLq	NE	55						
	eLr	Z	59						
28	eP	Z	00 14 57	1.4	8				
	eS	ZNE	22 53	2.1	12	4.9	20		
	eS	Z	26 55	2.2	30				
	eLq	E	28.8						
	eLr	ZN	32	5.8	30	4.8	23		
30	iP	ZNE	17 28 07 d	11.5	10	3.3	11		
	eS	NE	37 20	18	20	12	20		
	M	E	53					110	20
	eP'P'	Z	56.0						
	M	ZN	57						
30	iP	Z	20 32 44						
	ePP	Z	36 55	9	17				
	e	Z	38 10						
	eS	NE	43 16						
	ePS	ZE	45 56						
	eSS	Z	52 04						
	eLq	N	21 01 8						
	eLr	ZE	07 2	60	35	36	28		
31	iP	Z	02 30 33						
	eLr	ZN	56						
	eLr	E	03 00						
31	iP	Z	04 30 51						
	iS	Z	56						
31	iP	ZNE	04 48 14 d	9	13	6	12		
	ePP	Z	50 56						
	ePPP	Z	52 40						
	eS	ZNE	57 36	13	14	15	22	12	10
	eSS	ZNE	05 02 52						
	eLq	ZNE	06						
	eLr	ZN	09						
	M	ZNE	18						
3	iP'	ZNE	09 08 00						
	eS	ZNE	17 40						
	eLq	ZNE	28.5						
	eLr	ZE	31.3						
5	eLr	Z	10 35						
	eLr	N	45						
5	iP	Z	15 18 27 u						
	eLr	ZN	41						
6	iP	Z	01 54 53 d						
	eL	Z	02 40						
	eW ₂	NE	03 18						
6	iP	Z	08 50 02						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
AUG	eS	N	57 10						
	eSS	ZNE	09 01.0						
	eLr	Z	05						
	e	NE	09.0						
	e	E	12.0						
	e	Z	15.0						
6	iP	Z	15 36 54 d						
6	eP	Z	19 33 56						
6	iP	ZNE	21 00 19.5	9	10	5	22		
	ePP	Z	01 57						
	ePcS	E	04 27						
	eS	ZNE	07 10	7	15	19	14		
	esS	E	07 30						
	e(Lq)	ZNE	10.7	7	25				
	eLr	ZNE	13.0	15	27	11	20	11	17
7	eP	Z	08 57 03						
8	eP	Z	09 28 17						
8	eP	Z	12 09 43						
8	eP	Z	12 21 49						
8	eP	Z	13 44 37						
9	iP	Z	06 31 28½						
	ePP	Z	34 20						
9	eP	Z	17 34 20						
	ePcP	Z	35 22						
10	ePKP ₁	Z	21 23 52						
	ePKP ₁	Z	24 02						
	ePKP ₂	Z	18						
	ePP	Z	28 03						
10	eP	ZNE	23 55 22½	3	25	3.5	21		
	eP	ZN	33						
	eS	ZNE	56 10						
	eLq	E	57 25						
	eLr	ZN	40	14	15	12	17	7	13
11	eP	ZNE	01 55 57						
	ePcP	Z	56 07						
	epP	ZN	57.9						
	esP	ZN	59.0						
	eS	E	02 02 48						
	e(sS)	ZNE	06 06						
	esScS	Z	09.8						
11	eP	Z	06 57 17						
	eS	NE	07 05 25						
	eLr	ZNE	15						
11	eP	Z	08 29 25						
	epP	Z	33 37						
	epPP	ZN	34 25						
	eSKS	E	39 55						
	eS	N	40 55						
	eSS	ZNE	48 03	7	20	6	20		
	eSSS	N	52.5						

WAIKATI STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
13	eS	NE	07 00 55					5	20
	ePS	Z	02 24						
	eSS	N	07 35					3	23
	eLq	NE	16 36					7	30
	eL	ZE	19.1						
	M	ZE	25.4	8	18			6	17
14	eP	ZNE	01 15 48 d	8	17				
	eS	ZNE	20 14	18	15	>16	14	10	17
	eSS	ZN	21 06	45	29	>16	22		
17	eP	Z	00 42 15						
	eL	ZNE	01 00						
17	iP	Z	03 34 37 d						
17	eP	Z	05 17 23						
	eS	NE	28.0						
18	eP	Z	02 15 47½						
18	eP	Z	04 09 50						
18	ePKP	Z	17 03 10						
18	ePKP	Z	18 05 33						
18	eP	Z	20 53 12						
18	eP	Z	23 00 27						
19	eP	Z	01 34 51						
	epP	Z	35 50						
19	ePKP	Z	18 45 48						
	ePP	Z	48 05						
	epKS	Z	49 30						
19	iP	Z	23 24 18 u						
20	eP	Z	13 09 23						
20	eP	Z	23 28 28						
21	eP	Z	15 34 19						
21	eP	Z	16 18 26						
21	eP	Z	17 14 25						
21	ePKP	Z	18 28 45						
21	ePKP	Z	18 39 11			4	12		
21	ePKP	Z	19 04 36						
21	eP	Z	21 14 07						
	e	Z	14 48						
	eSS	ZNE	20 50	2	10			7	15
			24 15					7	22
21	eP	ZE	21 19 45						
	eS	ZE	27 55	14	28			22	26
	eLq	N	34 25					38	25
	eLr	ZE	37 17	27	23			20	30

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
AUG 21	eP	Z	22 13 03						
23	eP	Z	21 00 53 d						
24	eP	Z	06 55 03						
24	eP	Z	09 14 18						
	eS	ZNE	22 26						
24	eScS	E	09 24 12						
	eSS	Z	26.3						
	eLr	Z	31.0						
24	eP	Z	13 27 48						
25	eP	ZNE	08 40 10 d	3	12	2	12		
	ePcP	Z	41 10						
	epP	ZN	57						
	eScP	Z	44 16						
	eS	ZNE	47 00	5	14	13	22	12	16
	eScS	NE	49 00						
	ess	ZNE	50 12						
	e	NE	52.6						
	e	Z	54.9						
26	eP	Z	00 55 28						
26	eP	Z	00 41 54						
	epP	Z	42 05						
	ePcP	Z	15						
27	eP	Z	23 39 37						
28	ePKP	ZE	11 19 10						
	ePP	Z	22 26						
	eSKP	ZE	23 30						
	eSKS	Z	26 28						
	e	Z	31 04						
	e	Z	34 40						
	eP'P'	ZE	36 58						
	eSS	NE	41 00						
	e	ZN	42 03						
	eSSS	ZNE	46 30						
	eLq	NE	12 02						
	eLr	ZNE	07						
	M	E	24.5						
	M	ZN	28.5						
30	eP	Z	11 46 14 u						
30	eP	Z	17 27 01 d						
	eS	NE	34 38						
	M	ZN	45.5	6	20	6	18	7	16
30	eP	Z	19 18 58						
31	eS	N	09 18.2						
31	eP	Z	10 43.3						
	eS	ZN	51 21						
31	ePKP	Z	17 21 39						
	eLr	ZNE	18 00						
	M	ZN	15	6	20	5	19		

VALLETT STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
1	iP	ZNE	05 01 32 d						
	e(PPP)	Z	05 25						
	IS	ZNE	09 09	7	11	11	16	32	10
	eScS	N	10.7						
	e	E	15 54						
1	ePKP	ZE	19 39 53	7	12				
	ePP	ZNE	42 17						
	ePKS	ZNE	43 26						
	ePPP	Z	45.6						
	ePS	ZN	52.4						
	ePPS	ZNE	54 21						
	ess	NE	20 00 31						
	eSSS	ZE	04.7						
	eLq	NE	15						
	eLr	ZN	23						
	M	ZE	34	125	20	80	17	55	18
	M	N	39						
2	eP	Z	15 32 58						
3	eP	Z	22 15 07 u						
4	eP	Z	08 37 23						
4	eP	Z	19 38 09						
	e	Z	22						
	epP	Z	39						
5	eP	ZN	08 49 51						
	eLq	E	51 48						
	eLr	ZN	52 20						
5	eP	Z	11 28 19						
6	eP	Z	10 58 06						
6	eP	Z	11 22 24						
6	eP	Z	15 13 28 d						
6	eP	Z	18 14 03						
7	eP	Z	07 52 46						
7	eP	Z	24 02 35						
9	eP	Z	01 47 26						
9	eP	Z	03 34 10						
10	iP	Z	15 52 11 d						
	epP	ZN	54 02						
	epPcP	ZN	55 10						
	e	Z	35						
	eScP	Z	56 10						
	eS	ZNE	58 50						
	ess	ZNE	16 02 18	2	12	5	15	2	12
	essScS	Z	05.6						
10	eP	Z	17 58 51						
	eS	NE	06 45						
10	eP	Z	20 19 30						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	Ae	Te	An	Tn
SEP 11	eP	Z	02 34 15						
12	eP	Z	12 39 54						
12	ePKP	Z	21 16 00						
	eSS	E	35 56						
	eLr	ZNE	55						
M	ZE	22 06		8	20				
M	N	10				7 17	7 20		
14	eP	Z	11 17 05						
14	eP	Z	18 26 36 d						
	epP	Z	27 56						
	eS	N	33 41						
15	eP	ZN	22 06 34						
	eLr	ZNE	08 29	6	16	8	14		
15	ePKP	Z	23 09 35						
	ePP	Z	11.1						
	ePS	N	21.1						
	eSS	ZN	28 26						
	eLq	E	41						
	eLr	ZN	48						
M	ZN	58		7	18	7	19		
17	eP	Z	01 32 57 u						
17	eP	Z	18 03 59 d						
	ePcP	Z	05 07						
	epP	Z	53						
	epPcP	Z	07 23						
	eS	NE	10 39						
	ess	N	15.0						
17	ePKP	Z	20 04 22						
18	eP	Z	00 43 06						
	ePP	ZE	47 18						
	eSKS	NE	53 44						
	eS	NE	54 53						
	ePS	ZE	56 20						
	eSS	ZN	01 01 58						
	eLq	NE	11 40						
M	ZE	23		23	18	45 36	18 38		
M	N	47				14 16	24 18		
18	eP	Z	06 22 31 u						
18	eP	Z	20 20 45						
18	eP	Z	21 56 32						
	eS	N	22 04.8						
	eLq	E	10 54						
	eLr	ZN	13 44	2	20	24	18		
19	eP	Z	08 01 11						
21	eP	Z	22 47 03						
	eS	NE	53 44						
	eLq	ZNE	57 17						
M	ZNE	23 05		4	16	8 20	6 16		
22	ePKP	Z	07 10 06						

SUBSTATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
	ePP	Z	37						
	ePS	ZE	20.1						
	eSS	E	26.0						
	M	ZE	08 00	2½	20				
	M	N	06	2	17				
	21	eP	Z	15 15 05					
	eLq	E	23.3						
	eLr	ZN	24.8						
	24	eP	Z	05 41 07					
	24	eP	Z	14 08 21					
	25	eP	ZE	00 27 28					
	eS	ZNE	32 40						
	e	N	33 58						
	e	ZE	34 31						
	25	eP	Z	15 02 29					
	26	eP	Z	12 53 09					
	eS	ZN	13 00 07						
	e(Lq)	ZNE	03 47						
	e(Lr)	Z	06 05						
	27	eP	Z	06 59 45 u					
	epP	Z	07 00 16						
	27	eP	Z	07 03 13					
	eS	N	11 19						
	eLr	Z	21 35						
	27	eP	Z	08 02 40 u					
	epP	Z	03 10						
	27	eP	Z	12 43 05					
	27	eP	Z	13 08 05					
	e(pP)	Z	37						
	27	eP	Z	13 33 51					
	27	eP	Z	18 37 55					
	28	eP	Z	02 25 03					
	29	1P	ZNE	15 28 28 u					
	epP	ZNE	30 25						
	eS	ZNE	37 22	6	18				
	esS	ZN	40 46	4	16				
	eSS	ZNE	42 21						
	29	eP	Z	20 52 04					
	30	eP	Z	10 55 15					
	30	eP	Z	10 09 29					
	31	1P	Z	04 05 36 u					
	1	eP	Z	10 06 35					
	1	1PKP	Z	12 32 57 u					
	M	ZNE	13 24	4	19	2	18	2½	20

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
OCT 1	eP	Z	15 18 15						
1	eP	Z	21 51 45						
3	ePKP	Z	01 36 27						
3	eP	Z	17 22 47 d						
3	eP	Z	18 57 45						
4	ePKP	Z	05 01 45						
6	ePKP	Z	03 36 43 u						
6	ePKP	Z	04 14 37 u						
6	iP	ZN	04 32 50 d						
	es	ZNE	40 50						
	ess	NE	44 34						
	M	E	54						
	M	N	58						
	M	Z	05 03	57	15	23	17	39	14
6	eP	Z	04 44 29						
6	eP	Z	07 26 29						
6	eP	Z	08 05 48						
	es	E	13 33						
	eScS	E	15 40						
	e(Lq)	E	19.9						
6	eP	Z	08 12 59						
6	eP	Z	08 14 17						
6	iP	Z	11 10 33 d						
6	eP	Z	12 09 15						
6	eP	Z	18 10 35						
6	eP	ZNE	23 40 55 d						
	es	ZNE	48 40						
	eLq	E	54.7						
7	eP	Z	00 56 23						
7	eP	Z	05 57 05						
7	ePKP	Z	07 04 55						
7	ePKP	Z	10 09 08						
7	eP	Z	14 01 28						
7	eP	Z	16 09 11						
7	eP	Z	16 56 49						
7	eP	Z	17 01 43						
8	eP	Z	13 30 05						
8	eP	Z	19 04 52						

VALLETT STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
ST 8	eP	Z	22 10 17						
	ePP	ZE	14 35						
	eScS	NE	20 53						
	eSS	NE	29 10						
	M	E	50						
	M	ZN	55	12	19	3½	20	6	25
9	eP	Z	03 23 16						
9	ePKP	Z	16 17 53						
9	eP	ZNE	20 25 49						
	eS	ZNE	35 08						
	eLr	ZNE	47 53	23	35	12½	39	10	22
10	eP	Z	09 28 50						
10	eP	Z	13 44 38						
10	eP	Z	14 42 23						
10	eP	Z	21 04 03						
10	eP	Z	22 02 29						
	eLr	ZNE	19 21						
12	eP	Z	08 08 04						
12	eP	Z	17 04 55						
12	eP	Z	20 47 05						
13	eP	Z	08 35 05						
13	eP	Z	11 35 28						
13	eP	Z	18 57 47						
	eS	N	19 06 06						
14	eP	Z	00 37 28						
14	eP	Z	05 12 55						
15	eP	Z	00 34						
15	eP	Z	14 07						
15	eP	Z	20 26						
15	eP	ZNE	21 28 10 d	3	17	3	20	3	18
	eS	ZNE	29 51	22	17	8	17	12	16
	eT	Z	35.2						
15	eP	ZE	23 42 33						
	eLq	E	48.6						
	eLr	ZNE	50 41	14	18	5	18	13	19
16	eP	Z	01 18 12						
16	eP	Z	02 56 19						
16	eP	Z	02 59 10						
16	eP	Z	05 30 59						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
OCT 16	eP	Z	07 26 34						
16	eP	Z	09 59 41						
16	ePKP	Z	18 21 29						
18	eP	Z	04 17 18						
19	eP	Z	04 23 59 u						
19	eP	Z	09 48 38						
19	eP	Z	10 57 38						
19	eP	Z	17 21 22						
19	eP	Z	23 53 34 u						
20	eP	Z	05 41 37 u						
21	eP	Z	23 19 57						
22	eP	Z	04 45 52						
23	eP	Z	00 35 52						
24	eP	Z	05 12 53						
25	eP eS M M	ZNE ZNE E ZN	09 46 16 d 56 15 10 15 23	5	18	4	21	24	25
25	eP	Z	12 46 06						
25	iP eS M	ZNE ZNE ZNE	20 08 58 d 11 07 12	12	14	18	14	11	14
25	eP eS eLr M M M	ZN ZNE N E N Z	07 29 54 u 37 40 46.8 49 57 08 00						
26	eP eS M	Z NE ZNE	16 07 40 15.4 33	6	18	6	18	5	16
26	eP	Z	22 18 10						
27	eP e(Lr) M	Z ZNE ZNE	06 07 14 12.4 15	4	11	10	15	7	12
27	eP	Z	42 30						
27	eP	Z	39 34						
28	eP	Z	15 12 10						
30	eP eS eLr	Z ZN ZNE	01 55 53 02 03 35 12.0	3	16	16	21	9	15

BAILETT STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
OCT 1	eP eS M	Z NE ZNE	15 45 17 55.3 16 18			15	20	14	21
1	eP M	Z ZNE	18 04 17 37			10	20	8	20
2	eP	Z	07 03 47						
2	eP eS M	ZNE ZNE ZNE	14 57 48 07 04 27			2	16	2½	18
2	eP	Z	15 23 45					2½	16
3	eP eLr	Z ZN	01 10 58 30.5			1½	20	1½	22
3	eP	Z	01 50 06						
3	eP	Z	03 23 45						
3	eP	Z	04 45 23						
3	eP	Z	14 37 50						
4	iP eS eSS M	ZNE NE E ZNE	23 03 12 u 11 05 14 55 25			30	16	15	17
5	eP M	Z ZN E	21 02 06 11 14			1½	25	2½	25
5	eP	Z	21 37 44					1½	21
6	ePKP	Z	00 28 45						
6	ePKP	Z	03 55 45						
6	eP	Z	21 37 44						
7	ePKP	Z	13 17 26						
7	eP eS	Z NE	16 14 07 23 12						
8	eP	Z	00 14 31						
8	eP eS eLq M	Z N N ZE	00 45 48 56.1 01 08.5 15			1½	18	2	23
8	eP	Z	07 57 54						
8	eP	Z	15 23 26						
8	eP	Z	16 38 43						
9	ePKP	Z	01 30 13						
9	ePKP	Z	02 34 19						
11	eP M	Z ZNE	07 50 29 08 29			2	16	1	15
11	eP M	Z ZNE	08 29			2	16	2	16

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
NOV 11	eP	Z	10 43 03						
11	ePKP	Z	11 50 59						
11	eP	Z	12 06 20						
11	iP	ZNE	16 19 55 d						
	eS	NE	28.0						
	eLq	E	35.0						
	eLr	Z	37.7						
	M	ZNE	42	12	21	6	22	6	20
11	eP	ZNE	22 23 54	5	8				
	ePcP	Z	24 55						
	eS	E	31 48						
	M	ZNE	45	10	16	4	15	3	13
12	eP	Z	21 08 38						
13	eP	Z	21 56 50						
14	eP	Z	05 25 27						
14	eP	Z	07 32 17						
14	eP	Z	22 11 07						
15	eP	Z	16 02 08						
	e(pP)	Z	14						
15	eP	Z	16 19 38						
	e(pP)	Z	43						
15	eP	Z	16 35 59						
15	iP	Z	23 38 02 d						
15	eS	Z	23 49.8						
	L	Z	24 06						
16	eP	ZNE	07 28 15	4	10			3	14
	e	Z	28 18						
	eS	ZNE	36 10	22	23	12	17	42	30
	eSS	ZE	40.0						
	eLq	NE	42.2						
	eLr	ZE	44 48						
	M	ZNE	47	105	18	14	17	120	17
16	eP	Z	21 23 43						
	eSKS	E	34 23						
	eSS	NE	41.8						
	M	ZNE	22 15	10	18	3	17	9	16
17	eP	Z	14 32 45						
18	eP	Z	06 54 59						
19	eP	Z	10 21 54						
	eS	ZNE	28 05						
	e(Lq)	N	30 55						
	e(Lr)	ZE	31.8	5	20	15	28	6	21
19	eP	Z	14 02 02						
	e	ZNE	04 35						
	M	ZNE	06	11	12	8	15	19	12

GALLIT STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
NOV 22	eP	Z	07 46 50						
23	eP	Z	00 42 35						
	M	ZNE	01 16	4	16	2	16	7	16
23	eP	Z	00 52 20						
		Z	23 13 57						
	e(pP)	Z	14 02						
	ePP?	Z	16 03						
24	eP	Z	10 42 01						
24	eP	Z	17 34 16						
25	eP	Z	10 04 08						
25	e(L)	ZNE	10 15 05 d						
		Z	16.5						
25	eP	Z	15 06 44						
26	eP	Z	16 07 38						
	eS	N	14.8					3	15
27	eP	Z	17 03 08						
28	eP	Z	02 48 28						
28	eP	Z	05 15 12						
29	eP	Z	05 21 52						
29	eP	Z	04 06 28						
29	eP	ZNE	09 12 51						
	eS	ZNE	20.2						
29	eP	Z	19 16 09						
	sS	Z	23 56						
	M	ZNE	35	13	20	12	20	31	18
30	eP	Z	17 05 31						
30	eP	Z	23 18 54						
	M	ZNE	46	4½	17	1	17	5	17
31	eP	Z	04 25 00						
	epP	Z	15						
	e	Z	27 20						
	eS	ZN	31 28						
	ess	Z	34.9						
	M	ZNE	42	2½	18	1	19	1	20
32	eP	Z	13 43 25						
2	eP	Z	05 41 17 u						
3	eP	Z	06 06						
3	eP	Z	12 59 41						
4	IP	Z	07 34 37 u						
	eS	ZNE	44 12						
4	eP	Z	10 45 18						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
DFC	eS	ZE	54.2						
4	eP	Z	16 49 47						
	eS	E	57 49						
	M	ZNE	17 30	6	15	3	15	5	15
5	eP	Z	01 26 21						
6	eP	Z	03 57 01						
6	eP	Z	06 53 42						
	M	ZE	07 16	1	18				
6	eP	Z	11 38 36						
7	epP?	Z	14 18 30						
	ePP	Z	21 14						
7	e	ZNE	14 22 39						
	eSKS	N	26 52						
	eS	NE	28 06						
	e	E	31.1						
	e	NE	38 04						
8	eP	Z	18 12 20 u						
	epP	Z	44						
	e	Z	52						
8	iP	Z	18 28 21 d						
8	iP	Z	21 38 07 d						
	ipP	Z	40 07 d						
	eS	Z	47 04						
	e	Z	22 05 12						
	e	Z	07 02						
	e	Z	08 02						
8	eP	Z	23 13 54						
9	eP	Z	14 24 46						
9	eP	Z	14 37 55 d						
9	eP	Z	21 03 46 u						
10	eP	Z	05 07 20						
	eS	ZE	16 34						
	eLr	NE	29 12						
	M	ZNE	36	6	19	3	16	6	20
10	eP	Z	06 22 32						
10	eP	Z	17 04 22						
10	eS	NE	17 11 10	2½	15	3	19		
11	eP	Z	14 02 58						
11	eP	Z	18 00 26						
12	eP	ZNE	10 19 41						
	e(pP)	Z	20 05						
	eS	NE	28 41						
12	eP	Z	14 05 03						

MULLETT STATION 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
12	eP	Z	23 09 23						
17	eP	Z	11 11 45						
	epP	Z	13 14						
	eS	NE	21 15						
	eP	Z	07 21 56	7	12	4½	12	11	10
	eL	ZNE	24.5						
18	eP	Z	10 41 52						
20	eP	Z	08 41 53						
20	eP	Z	08 55 26						
	e(pP)	Z	56 38						
20	iP	ZNE	18 23 30						
	eS	ZNE	25 42						
	M	ZNE	27	32	15	30	15	35	10
21	eP	ZE	00 55 37	4	14				
	eS	ZNE	01 04 58	4	17	3	18	2½	20
	eSS	ZNE	09.5					6	18
21	e(SSS)	ZNE	01 13.0						
	M	ZNE	24	20	19	13	20	21	18
21	ePP	ZN	09 03.9						
	eSKS	ZNE	08.8						
	eSS	ZNE	20.5						
	M	ZNE	10 00	35	17	34	16	19	17
21	iP	Z	09 54 18						
22	iP	ZN	01 01 20						
	eS	E	08 35						
	M	NE	19					45	17
								95	15
24	eP	Z	00 32 36						
26	ePP	Z	22 46 10						
	M	ZNE	23 27	30	22	15	24	10	20
27	eP	Z	11 24 59						
27	eP	Z	14 13 07						
29	eP	Z	04 24 14						
29	eP	Z	10 53 08						
	eS	ZNE	11 03 07						
	M	ZE	20	9	21				
29	eP	Z	14 55 28						
	eS	NE	15 01.8						
	M	ZNE	10	30	17	17	17	12	15

SCOTT BASE 1962

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
3	eP	ZN	24	00	08 u						
	ePcP	Z			01 08						
4	eP	Z		01	25 03						
4	ePKP	Z		04	54 05						
	ePP	Z			55 03						
4	eP	ZN		07	46 06						
	PcP	Z			15						
	pP	Z			53						
	e	Z			47 36						
	e	Z			48 41						
	eS	ZNE			55 17					0.5	8
	PS	NE			56 29					0.5	7
	SS	E		08	00 23					1	6
	SSS	E			03 36						0.5 27

SCOTT BASE

The amplitudes quoted in this section are in millimetres, measured on the screen of a viewer enlarging the original 35 mm. film by a factor of 5.

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JAN 1	ePKP	Z	03	00	17						
	eSKP	ZN			03 39						
1	eP	ZN	12	24	57						
1	eP	ZN	15	40	40						
1	e	ZN	15	47	49						
1	PKP	ZN	23	59	35						
	SKP	ZN	24	02	48						
2	eP	Z	02	27	01						
2	eP	Z	05	35	41						
2	eP	Z	06	02	42						
2	eP	Z	11	57	09						
2	iP	Z	23	16	16						
1	Z		18	02	u						
3	eP	Z	02	14	33						
3	eP	ZN	06	59	26						
3	eP	Z	07	03	12						
3	eP?	Z	07	43	03						
3	eP	Z	11	30	46						
3	eP	Z	11	34	36						
3	eP	Z	11	49	30						
3	eP?	Z	13	47	16						
3	ePKP	Z	18	12	08						
3	eP	Z	20	04	28						
						00	34	06			
						N		37			
						(PcP)		36 09		1	8
						e(PP)		42 31			
						eS				1	8
						eLq		49.6		0.5	27
						eLr		53		0.5	24
						5	eP	Z	06 47 05		
						5	eP	ZN	08 18 37		
						5	iP	ZN	12 01 49 ds		
						5	eP	ZN	14 14 16		
						5	eP	ZN	16 00 25		
						7	e	ZN	10 19 54		
						7	ePKP	ZN	10 22 45		
							e	ZN	23 06		
							e	Z	38		
							e	Z	25 27		
						7	eP	Z	22 10 35		
						7	e	N	22 38 38		
						8	ePP	ZN	01 19.9		
						8	P	ZN	05 52 20		
							pP	Z	59		
						16	P	ZN	11 44 22 d		
							ePcP	Z	45 49		
							eS	ZN	51 24		
						17	eP	ZN	13 30 53		
						17	eP	ZN	14 57 37		
						17	eP	Z	15 41 48		
						17	eP	ZN	15 55 44		
						16	eP	Z	11 56 44		

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JAN 18	eP	ZN	15 57 11						
18	eP	ZN	16 05 14						
18	eP	ZN	16 08 00						
19	eP	N	21 30 48						
21	eP	ZN	13 01 14						
			Microseism storm Jan 22 - 25.						
25	eP	ZN	02 01 10						
28	e	N	05 50 13						
	eP	Z	26						
	epP	ZN	37						
	e	NE	53						
29	eP?	Z	21 18 12						
FEB 1	eP	Z	00 48 25						
	ePcP	Z	49 58						
	e	N	53 32						
3	eP	ZNE	00 49 55						
	eL	ZNE	01 14	0.5	20	0.5	20	1	20
			Microseism storm Feb 4 - 5.						
11	eP	ZNE	19 06 57	1	5				
	epP	Z	07 28						
	eS	N	16 22						
	e	E	16 54						
14	eP	ZNE	06 46 06						
	ePcP	Z	46 57						
	ePP	ZN	48 29						
	eS	NE	54 12						
	eLq	NE	07 01.1						
	eLr	ZNE	04.5	2	18	2.5	20	2	20
	eP'P'	Z	15 40						
15	eP	ZNE	10 05 02						
	e(pP)	Z	10						
			Microseism storm Feb 16 - 17.						
17	iP	ZNE	03 47 38 d	1.5	5				
	ePP	Z	48 09	1.5	4				
	eLq	NE	51.8						
	eLr	Z	52.5	0.5	17	0.5	17		
20	eP	ZNE	10 15 42						
	e(PP)	Z	19 36						
23	iP	ZE	20 33 16 d						
26	eP	Z	08 57 01						
			High microseism level Feb 27 - Mar 6.						
MAR 1	eP	ZN	23 51 45						
3	eP	ZE	12 27 38						

NEW BASE 1962

	Phase		h m s	Az	Tz	An	Tn	Ae	Te
17	eP	ZNE	11 13 36						
	eSKS	NE	23 07					1.5	5
18	eP	Z	10 41 51						
18	eP	Z	20 57 42						
19	eP	ZNE	07 06 33						
	eS	NE	28 13						
19	eP	ZE	17 38 33						
19	iP	ZNE	22 19 02 d						
	ePcP	Z	19 17						
	eS	N	28 45						
19	eP	ZNE	01 16 10						
	eL	NE	20.9						
19	eP?	ZE	18 32 34						
19	eP	ZNE	22 48 15						
	eL	NE	52 08						
19	e	ZN	15 45 52						
19	eP	ZNE	19 31 59						
	e	Z	32 11						
	e	Z	32 30						
19	eP ^o	Z	17 30 07						
	e(P)	Z	10						
19	eP	Z	05 44 47						
	e	E	52 05						
	e(3cs)	E	54 12						
19	eP?	Z	07 18 32						
19	eP	Z	21 24 54						
19	eP	Z	15 35 20						
	ePcP	Z	36 19						
19	eP	ZNE	19 53 33						
	ePcP	Z	43						
19	eP	ZN	00 49 09						
19	eP	ZNE	03 16 35						
	e	Z	17 50						
	e(PP)	Z	18 53						
19	eP	Z	13 48 10						
19	ePKP	Z	15 50 03						
	ePP	Z	53 03						
19	iP	Z	02 44 02 d						
	e(L)	NE	03 04 23						
19	eP?	Z	04 39 49						
19	iP	ZNE	04 54 21 u						
	e(PP)	ZE	54 23						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
MAR	e(PcP)	Z	58 14						
	e	Z	59 26						
	eLq	NE	05 01 0						
	eLr	ZNE	02 3						
19	iP	ZNE	06 06 38 d						
	iPcP	Z	42 d						
	ePP	Z	07 14						
19	eP	Z	08 51 01						
19	eP?	Z	21 09 25						
	e(P)	Z	39						
20	eP	Z	11 08 28						
21	eP	Z	02 39 53						
21	iP	ZNE	23 08 44 d						
	epP	Z	10 56						
	eS	ZNE	17 51						
	eSP	Z	22 09						
22	iP	ZNE	00 30 38 u						
	epP	Z	32 44						
	e	Z	35 13						
	e(S)	E	39 41						
22	eP	ZE	00 48 29						
	epP	Z	50 38						
22	eP	Z	06 31 30						
22	eP	Z	12 15 18						
22	eP	ZNE	15 24 49						
	e(S)	ZNE	34 31						
22	eP	Z	16 28 19						
	eS	E	38 04						
22	e	Z	19 06 11						
22	eP	ZE	19 09 47						
23	eP	ZE	05 44 34						
23	eP?	ZNE	09 28 36						
23	eP	Z	14 57 17						
24	eP	Z	01 44 23						
24	eP	ZNE	13 10 53 u						
25	eP	Z	11 53 43						
	e(PcP)	Z	54 51						
25	eP	ZE	14 25 22						
	e	Z	30 51						
25	eP	ZE	21 56 59						
26	eP?	ZNE	13 24 08						

KAIT BASE 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
APR 26	eP	ZNE	16 42 23						
28	eP	ZNE	04 18 04						
28	eP	Z	06 25 27						
28	eP	ZE	14 21 03						
29	eP	ZNE	20 21 10						
29	eP	Z	22 48 16						
30	eP	Z	08 08 27						
30	eP	ZN	14 31 58						
31	eP	Z	07 56 41						
31	eP	ZE	12 10 24						
	eScP	Z	15 52						
31	eP	ZNE	12 18 56						
APR 1	eP	ZE	04 57 16						
	e	E	05 02 07						
1	eP	ZNE	12 22 42						
1	eP	ZE	15 47 07						
3	eP	ZNE	16 35 49						
	epP	Z	58						
3	eP	ZNE	18 47 31						
	epP	Z	43						
4	eP	ZNE	03 41 39						
	e	ZE	19 34 57						
		Z	37 07						
5	eP	Z	12 33 42						
5	eP	ZNE	19 56 18						
5	eP	Z	20 14 29						
5	ePKP	Z	21 46 53						
6	eP	ZNE	17 00 35 d						
	ePcP	Z	01 18						
	e	Z	29 51						
7	eP	Z	06 34 31						
7	eP	ZE	08 14 25						
10	eP	ZNE	04 47 22						
10	eP	ZE	05 15 28						
10	eP?	ZNE	07 03 25						
10	eP	ZNE	12 28 55						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
MAY 6	eP	ZN	03 20 04						
6	eP	ZNE	03 40 09						
6	eP	ZNE	19 08 00	2.5	7	0.8	8	0.5	8
	ePP	ZNE	09 42	3.5	7	3	7		
	eS	ZNE	14 19	1.5	8	5.5	10	1	6
	e	NE	17 14			4	22	10	20
	eLq	ZNE	19.0						
	eLr	ZNE	21.0						
M	Z		25.5	1.2	18				
M	NE		26.0			3.5	18	2.5	20
6	eP	ZN	19 27 44						
6	eP	ZNE	22 01 37						
	e(PP)	Z	03 21						
	e(S)	N	07 40						
6	eP	ZN	22 42 35						
	e(PP)	ZN	44 17						
	e(S)	N	48 52						
7	eP	ZNE	05 08 09						
7	ePKP	ZNE	17 58 47						
	ePP	ZN	18 00 29	0.5	5				
7	eP	ZN	19 11 28						
10	ePKP	ZNE	00 23 00						
10	eP	ZNE	00 34 20						
10	eP	ZNE	11 47 29						
11	eIP	ZN	12 16 16						
11	eP	ZNE	13 44 19						
11	ePP	Z	14 30.6						
	ePKKP	ZN	41 42						
	eL	ZN	15 04						
11	P	Z	17 49 56						
11	P	Z	20 12 49						
12	eP	ZN	18 56 17						
12	eP	ZN	22 12 58						
12	eP	ZNE	22 22 00						
14	eP	Z	01 35 15						
14	eP	ZNE	10 44 55						
15	eP	ZNE	05 35 16			1.0	9		
	e	Z	38 05						
	e(PPP)	Z	40 32						
	eS	ZNE	44 43						
	e(PSP)	Z	45 46						
	eLq	NE	54.7						
	eLr	ZNE	58.2	5	18	4	18	6	18

SOOTTI BASE 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
MAY	ePKPKPK	Z	06 03 10						
15	eP	ZNE	06 54 29						
15	eP	ZNE	10 06 46						
15	eP	ZNE	17 05 32						
15	eP	ZNE	18 08 51						
16	eP	ZN	05 27 16						
16	eP	ZNE	14 47 00						
16	eP	ZNE	17 43 37						
16	iP	ZN	23 15 34½						
17	eP	ZNE	02 27 00						
17	eP	Z	04 14 43						
17	eP	ZN	12 13 08						
17	eP	ZNE	16 09 06						
18	eP	ZNE	07 21 28						
18	eP	ZNE	23 29 13						
19	ePP	ZNE	15 16 57						
	eSKS	E	23 18						
	eL	ZE	49.0						
20	eP	ZNE	00 08 52						
20	eP	Z	06 18 07						
20	eP	Z	18 39 22						
21	ePKP	ZNE	12 21 45						
	ePP	Z	23 30						
	ePKKP	Z	31 45						
21	eP	Z	21 06 10						
21	iP	ZNE	21 24 54						
	epP	ZN	26 16						
	e(PP)	ZN	28 31						
	eS	ZNE	32 34						
	e(ScS)	ZNE	34 18					2.5	7
	e	ZNE	35 18					2.5	11
	eP'P'	ZNE	54 28					2	11
	eL	ZNE	55.5					3.5	13
	e	ZN	56 19						
22	eP	Z	00 30 20						
22	eP	ZNE	04 46 15						
	e	N	50 54						
	eSS	N	53 12						
22	iP	ZNE	08 17 21 d						
	eS	NE	25 48						
	eP'P'	Z	45 29						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
MAY	e	N		46	33						
22	eP	ZNE	22	15	01						
	eS	ZNE		24	20						
23	eP	ZNE	08	27	42						
23	eP	ZNE	20	54	56						
23	eP	ZNE	21	11	05						
24	eP	Z	02	23	09						
25	eP	ZNE	04	29	25						
25	eP	Z	07	15	33						
25	eP	Z	14	28	19						
25	eP	Z	15	02	15						
25	eP	Z	16	53	48						
25	eP	ZE	17	30	34						
26	iP	ZNE	02	22	08 d						
26	eP	ZE	10	02	38						
26	eP	Z	13	00	24						
26	eP	Z	19	57	27						
27	eP	Z	05	42	30						
	e	ZNE		47	05						
27	eP	Z	14	41	52						
28	eP	Z	16	19	02						
28	eP	ZN	23	59	43						
29	ePKP?	Z	21	19	24						
	eSKP	Z		22	41						
29	eP	Z	22	03	10						
	ePP	Z		05	42						
30	e	Z	05	17	49						
30	eP	Z	17	06	59						
31	eP	Z	03	26	43						
	e(pP)	Z		50							
31	eP	Z	06	41	44						
	ePP	Z		46	03						
	eSKS	ZNE		52	02						
31	eP	ZNE	08	46	06						
31	eP	ZE	21	29	05						
JUN 1	eP	ZN	13	18	38						

RECDT BASE 1962

Date	Phase		h	m	s	Az	Tz	An	Tn	Ae	Te
JUN 2	eP	ZNE	05	47	17						
	3	eP	Z	14	34	29					
	4	ePKP ₁	Z	00	03	34					
	5	eP	ZNE	16	55	05					
	6	eP	Z	08	58	44					
	8	eP	ZNE	01	41	14					
		epP	Z	43	13						
	8	eP	ZNE	20	57	45					
	9	eP	Z	07	53	10					
	10	epP	Z	17	35	02					
		ePP	Z	36	54						
	11	iP	ZNE	04	44	22 $\frac{1}{2}$ d					
		epP	Z	45	42						
	11	ePKP ₁	ZNE	07	35	07					
	11	eP	Z	17	13	01					
	12	eP	ZE	13	55	53					
		e(PP)	Z	59	29						
	13	eP	Z	19	18	12					
	14	ePKP	Z	08	11	05					
		eSKP	ZE	14	27						
	14	ePKP	Z	08	15	06					
		eSKP	ZE	18	24						
	15	eP	ZNE	06	42	25					
		e(PP)	ZE	45	28						
		e(PPP)	Z	47	11						
	15	eP	ZNE	12	06	38					
	16	eP	ZE	06	39	31					
	16	e?	ZNE	06	47	25					
	16	eP	ZN	17	59	02					
	17	eP	ZNE	04	37	27					
		epP	Z	39							
	17	eP	ZNE	13	33	02					
	18	eP	Z	17	11	15					
	18	eP	ZNE	23	53	59					
	19	eP	Z	03	43	20					
	19	eP	Z	06	25	12					
	20	eP	Z	03	32	07					

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUN 20	eP	Z	06 27 26						
	e	Z	29 05						
20	eP	Z	06 49 45						
	e	ZNE	50 18						
	e(s)	ZNE	51						
21	ePP	Z	05 01 33						
21	eP	Z	08 48 14						
21	eP	Z	19 08 11						
	epP	Z	27						
21	eP	ZE	23 04 19						
	e?	ZNE	12 35						
22	eP	ZE	15 06 56						
23	ePKP	ZNE	10 03 33						
	eSP	ZNE	12 31						
23	eP	Z	15 13 54						
	epP	Z	14 04						
23	eP	Z	22 39 49						
	e(pP)	Z	41 20						
24	eP	Z	03 13 06						
24	e(P)	Z	12 05 38						
24	eP	Z	17 13 27						
25	eP	Z	01 40 34						
	epP	Z	42 36						
25	eP	ZE	03 00 48						
25	eP	ZNE	06 36 52						
	e?	ZNE	58 30						
25	ePKP	ZNE	11 28 52						
	e(PPP)	Z	31 08						
25	eP	Z	13 02 15						
26	eP	Z	10 05 52						
27	eP	ZNE	03 41 24						
27	eP	Z	08 26 30						
	epP	Z	46						
27	eP	ZNE	13 43 09						
27	eP	ZNE	13 45 58						
27	eP	ZNE	19 58 46						
	ePcP	Z	59 04						
	epP	Z	34						
28	eP	Z	04 41 03						
	ePP	Z	45 05						
	ePPP	Z	47 21						

SOFT BASE 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUN 28	eP	ZNE	19 02 36						
	pP	Z	55						
28	eP	Z	21 57 22						
	eP	Z	01 02 26						
29	eP	ZNE	03 38 41						
	e(pP)	ZNE	14 00 39						
	e(S)	Z	01 04						
29	ePKP	Z	16 47 42						
	eP	ZNE	21 07 03						
	e(PP)	Z	09 18						
	e(S)	NE	14 13						
31	eP	Z	01 42 27						
1	eP	Z	02 07 54						
1	eP	ZNE	05 17 06						
2	eP	ZNE	08 43 26						
	eS	NE	52 16						
2	eP	ZNE	15 54 26						
3	eP	Z	06 33 55						
	eP	Z	08 44 44						
3	eP	ZNE	18 19 24						
	ePP	Z	20 21						
	(PcP)	Z	22 18						
	es	NE	24 16						
	ess	N	26.0						
	eLq	ZNE	26.8						
	eLr	ZNE	28.5						
3	eP	ZNE	18 28 28						
	(PcP)	ZE	31 20						
	e	ZNE	32 04						
	eS	ZNE	33 09						
	eLq	ZNE	35.5						
	eLr	ZNE	37.0						
4	eP	Z	0.6 10						
	eP	ZE	0.5 7						
	eP	Z	1.0 10						
	eP	Z	1.5 10						
	eP	Z	1.5 10						
5	eP	Z	21 09 12						
4	eP	ZE	17 11 18						
5	eP	Z	07 43 21½						
5	eP	Z	10 44 27						
6	eP	Z	09 53 14						
6	eP	Z	12 22 22						
6	eP	Z	13 37 13						
6	ePKP	ZNE	23 24 09						
	(pPKP)	Z	25 10						
	PP	ZE	26 08						
			0.8 5						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUL	(SKP)	ZNE	27 02						
	(SKS)	E	30 39						
e	ZNE	34 23							
SKSP	ZNE	35 54							
eSS	NE	43.0							
7	PKP	ZNE	06 31 50						
	ePP	Z	34 14						
	SKP	ZNE	35 10						
	SKS	Z	38.5						
7	eP	ZNE	11 58 50						
7	eP	Z	19 15 07						
8	ePKP	Z	03 41 05						
	ePP	Z	43 05						
8	eP	ZNE	04 12 22						
9	eP	ZNE	10 04 03						
10	P	ZNE	05 21 03						
	ScP	Z	24 50						
11	eP	ZNE	12 53 43						
	ePP	Z	57 14						
11	eP	Z	17 01 13						
12	eP	Z	09 42 42						
12	eP	Z	23 03 39						
13	eP	ZNE	03 44 55						
	eS	E	55 43						
13	iP	ZNE	04 19 07½						
14	PKP	Z	20 56 57						
15	ePKP	Z	07 06 23						
15	eP	Z	12 47 34						
15	eP	Z	19 44 00						
16	eP	ZN	02 10 44						
	eS	ZNE	16 15						
	eLq	NE	18 10						
	eLr	ZNE	19 46	1.0	12	1.2	12		
16	eP	ZN	05 01 44						
16	eP	ZNE	09 36 17						
16	PKP	ZNE	13 14 06						
	PP	Z	17 10						
	SKP	Z	18 12						
16	eP	ZNE	16 26 08						
17	eP	ZNE	05 41 31						
17	PKP	ZNE	17 39 14						

SECT BASE 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
18	eP	ZNE	01 32 35						
18	eP	ZNE	06 05 08						
18	eP	Z	09 34 18						
18	eP	Z	10 23 29						
19	P	ZNE	01 03 41						
19	eP	Z	03 50 05						
19	eP	Z	12 14 15						
20	eP	ZN	16 37 13						
20	eP	ZE	23 42 48						
22	P (PP)	ZNE	10 47 51						
	ZN		50 22						
23	eP	ZN	23 19 36						
25	eP	ZNE	00 24 09						
25	ePKP	ZNE	04 53 44						
25	eP	Z	06 17 28						
26	eP	Z	08 28 38						
	e	Z	46						
	ePP	ZNE	32 25						
	SKS	E	39 10						
	S	N	40 27						
	ePS	ZNE	42.0						
	(SPP)	ZE	43 07	1.0	6			0.5	7
	PKKP	ZNE	45 08					1.5	14
	eSS	NE	47.0					1.0	15
	eSSS	NE	51.2					1.5	20
	P'P'	Z	52 40					2.0	16
	Lq	ZNE	57 22	0.6	15	3.5	30	0.5	16
	eLr	ZNE	09 01.0	1.5	23	0.5	20	3.5	28
26	eP	Z	21 40 41						
27	eP	ZNE	06 22 06						
27	eP	ZNE	19 36 46						
28	eP	ZNE	00 15 36						
	eS	NE	23 45						
28	eP	ZNE	23 45 51						
29	eP	Z	18 26 48						
30	eP	Z	16 08 27						
30	P	ZNE	17 28 30½						
	eS	ZNE	38 14						
	eSS	Z	41 27						
	eLq	NE	49.0						
	M	ZNE	56.5	2.0	20	3.0	20	3.0	16
30	eP	ZNE	20 32 37						

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
JUL	ePP	Z		36 50					
	PKKP	Z		49 20					
31	eP	Z	02 30 53						
AUG 1	eP	Z	03 58 17						
1	iP	ZNE	04 48 40.5 d						
	eS	NE	58 27						
	eL	ZNE	11.2						
	eP'P'	Z	05 16 10	1.5	15			1.5	15
1	eP	Z	12 47 58						
1	eP	ZNE	12 56 54						
2	eP	Z	13 38 08						
3	iP	ZNE	09 07 45 unw 5.5 4						
	eS	NE	17 13	1.2	7	1.0	7		
	ePS	NE	18 04	1.2	6	1.0	7		
	eLg	NE	23 35			0.5	7		
	eP'P'	Z	35 06						
	eSKPP	Z	38 37						
3	eP	Z	10 15 40						
3	eP	Z	10 25 55						
	pP	Z	26 05						
3	ePKP	Z	11 23 13						
3	eP	Z	12 13 25						
5	iP	ZNE	15 19 05.8 d						
6	ePKP	Z	01 54 47						
6	eP	ZNE	08 49 23						
6	iP	ZNE	21 01 14.1 dn						
	e	ZN	25						
	eS	ZNE	08 37						
8	eP	Z	12 10 21						
8	eP	Z	12 22 27						
8	eP	Z	13 45 16						
9	iP	Z	06 31 12.9						
9	eP	Z	17 34 00						
10	iP	Z	21 23 51.2						
11	eP	ZNE	01 56 36						
	i	N	43						
	e(s)	ZNE	02 05 25						
11	eP	Z	06 57 54						
11	ePKP	ZNE	08 33 52						
	eSKS	NE	40 08						
	e(SP)	Z	43 15						

SCOTT BASE 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
AOG 11	eP	Z	18 24 10						
	12	eP	10 46 08						
	14	P	ZNE	01 16 40					
	eL	ZNE	23 12	0.8	12	0.8	12	1.8	11
	17	eP	Z	00 42 52					
	17	P	ZNE	03 34 20					
	17	P	Z	04 06 58					
	17	eP	ZNE	05 17 43					
	17	P	Z	23 06 24					
	18	P	Z	02 16 28					
	18	eP	Z	04 10 29					
	18	ePKP	Z	18 05 37					
	18	eP	Z	20 53 54					
	19	PKP	ZNE	18 45 50					
	SKP	Z	49 31						
	19	eP	ZNE	23 24 03					
	P'P'	Z	51 53						
	20	eP	Z	13 09 33					
	20	eP	ZNE	23 29 05					
	21	eP	Z	16 19 03					
	21	ePKP	Z	18 39 02					
	21	eP	ZNE	21 14 50					
	21	eP	ZNE	21 19 56					
	ePP	Z	22 08						
	e(s)	E	28 18						
	eP'P'	Z	49 23						
	22	eP	ZNE	05 38 21					
	22	eP	Z	11 18 36					
	22	eP	Z	12 14 55					
	23	iP	ZN	21 01 14					
	24	eP	Z	04 09 37					
	24	iP	ZNE	06 55 43					
	24	eP	ZNE	09 14 55					
	24	eP	Z	13 27 36					
	25	iP	ZNE	08 40 49 d	0.7	3			
	i	N	57 s						
	PP	Z	42 40	1.0	2				

NEW ZEALAND SEISMOLOGICAL REPORT 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
AUG	ScP	ZN	44 40						
	S	ZNE	48 11						
	ScS	NE	49 41						
eP'P'	Z		09 10 10						
26	P	ZNE	23 42 19						
27	P	Z	02 37 15						
27	P	ZNE	23 39 39						
28	P	Z	00 50 30						
28	PKP	ZNE	11 19 00	0.6	3				
	PP	Z	21 51						
	SKP	ZNE	22 31	0.6	4				
	SKKS	NE	28 36						
(SKKP)	Z		31 05						
29	eP	Z	09 25 02						
30	eP	Z	11 45 56						
30	PKP	Z	13 54 35						
30	eP	ZNE	17 27 41						
30	eP	Z	19 18 22						
31	eP	Z	10 43 57						
31	ePKP	ZNE	17 21 49						
	eSKP	Z	25 08						
	SKKP	Z	34 54						
SEP 1	ePKP	Z	04 05 12						
1	ePKP	Z	05 00 45						
1	iP	ZNE	05 02 11.5 d	1.5	3				
	S	ZNE	10 18	0.8	5	0.8	4	1.0	5
	PS	ZN	11 30						
eP'P'	Z		31 16						
1	ePKP	Z	08 10 12						
1	PKP	ZNE	19 39 48	1.2	4				
	SKP	ZNE	43 14	1.0	6	0.5	9		
	PKKP	Z	49 46						
	PS	E	52.3						
	SPP	Z	54 08						
	SS	NE	59.8						
eL	E		20 22.2						
eL	ZN		26.1						
M	ZNE		40.8	0.8	15	1.3	18	1.4	18
2	eP	ZNE	15 33 16						
3	eP	ZE	00 07 42						
3	eP	Z	22 14 28						
4	P	ZNE	19 38 48						
5	eP	ZNE	11 28 43						

SCOTT BASE 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
SEP 6	eP	Z	10 58 42						
	6	eP	15 14 02						
	6	eP	ZNE						
	7	eP	ZNE	07 53 08					
	8	eP	Z	07 36 36					
	9	iP	ZNE	03 34 00					
	9	P	Z	08 49 08					
	10	iP	ZNE	15 52 49.5 dn					
	e	ZN	54 46						
	i(pP)	Z	52 d						
	ScP	Z	56 35.1 d						
	S	ZNE	16 00 04						
	ScS	NE	01 36						
	(P'P')	Z	22 07						
	10	eP	ZNE	17 59 31					
	12	eP	Z	14 28 40					
	12	eP	Z	18 30 32					
	12	eP	ZNE	21 15 55					
	13	eP	Z	05 12 10					
	14	eP	Z	16 02 47					
	14	eP	ZNE	18 27 12					
	pP	Z	28 30						
	15	eP	ZN	23 09 48					
	ePP	Z	11 46						
	e(SPP)	Z	22 49						
	17	eP	Z	05 09 11					
	17	eP	ZNE	18 04 42					
	PcP	Z	05 27						
	PP	ZN	06 40						
	ScP	Z	08 27						
	eS	N	11 56						
	18	eP	Z	00 42 54					
	ePP	ZNE	47 12						
	eSKS	N	53 52						
	eP'P'	Z	01 07 16						
	e(L)	N	11.5						
	18	eP	ZNE	06 22 49					
	18	eP	ZNE	20 21 26					
	18	eP	ZN	21 57 11					
	19	eP	ZN	08 01 28					
	20	eP	ZN	16 50 08					

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Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
SEP 21	eP	ZNE	22 46 33						
	ePP	ZN	48 15						
	e(S)	Z	51 54						
	eS	N	52 23						
22	ePP	ZN	07 11 09						
22	eP	ZNE	15 15 32						
	eS	ZN	21 38						
25	eP	ZNE	00 27 39						
	eS	N	33 19						
	eSS	N	34 19						
	eLq	NE	36.0						
	eLr	ZNE	39.1	1.0 10	1.0 15	1.0 12	1.0 10		
25	eP	Z	07 39 34						
25	eP	ZN	15 02 49						
26	eP	ZNE	12 53 52						
26	eP	ZNE	12 57 43						
27	eP	ZNE	07 02 36						
27	eP	ZNE	08 02 26						
27	iP	ZNE	13 08 13 d						
	epP	Z	44						
28	eP	Z	02 25 54						
28	eP	Z	03 44 38						
29	iP	ZNE	15 28 10 u						
	pP	ZNE	30 04	0.5	2				
	S	ZNE	36 49						
	(SP)	Z	37 24						
30	eP	Z	10 59 46						
30	eP	Z	11 10 01						
OCT 1	iP	ZNE	04 06 13.8						
	ePP	Z	08						
1	eP	ZNE	10 07 15						
1	PKP	ZN	12 32 51						
	ePP	Z	34 19						
1	eP	ZNE	15 18 48						
1	eP	ZNE	20 52 25						
3	P	ZNE	17 23 27						
	pP	Z	37						
3	eP	ZNE	18 57 04						
6	PKP	Z	04 14 28						
6	eP	ZNE	04 33 33						
	eS	NE	41 48						

ROTT BASE 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
OCT	(ScS)	E	43 24						
	eLq	E	49 19						
	eP'P'	ZN	05 03 05						
6	eP	ZNE	04 45 11						
	e(S)	E	54.0						
	eSS	E	57 00						
	e(SSS)	NE	59.2						
	eL	ZNE	01.2						
6	eP	ZNE	08 06 30						
	ePP	Z	08 42						
6	eP	ZNE	08 13 41						
6	iP	ZNE	11 11 10.3 dn						
6	eP	ZN	12 10 03						
6	eP	ZNE	18 11 13						
6	eP	ZNE	23 41 34						
	eS	NE	49 51						
7	P	ZNE	00 59 11						
7	eP	ZNE	16 08 29						
7	eP	ZN	16 57 28						
8	ePP	ZNE	22 14 49						
	SKS	N	21 36						
9	eP	ZNE	20 26 19						
	eS	ZNE	36 06						
10	eP	Z	09 29 29						
10	eP	ZNE	13 44 48						
10	eP	ZNE	21 03 46						
10	eP	ZNE	22 03 06						
	ePP	Z	05 26						
12	eP	ZNE	17 04 39						
13	eP	ZNE	08 35 54						
13	PKP	Z	10 42 48						
	SKP	ZNE	46 09						
13	eP	ZNE	18 58 25						
14	eP	ZNE	00 38 14						
15	eP	ZNE	21 29 27						
	eL	ZNE	34 24						
15	eP	NE	23 43 23						
16	eP	ZN	02 59 48						
	ePP	Z	03 02 04						
16	eP	ZNE	05 31 38						

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Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
OCT 16	ePKP	Z	18 21 39						
	eSKP	ZNE	24 59						
18	eP	ZN	04 17 30						
19	eP P'P'	ZN Z	04 23 41 52 14						
19	eP	ZN	09 47 57						
19	eP	ZNE	10 57 54						
19	eP	ZNE	17 22 09						
19	eP	ZN	23 53 55						
25	eP	ZNE	09 46 35						
	eS	NE	56 48						
25	eP	ZNE	20 09 56	2.0	3	1.5	2		
	eLq	ZNE	13.5	1.0	15	1.0	15		
	eLr	ZNE	15.9	2.0	10	8.0	12	1.5	15
26	eP	ZNE	07 30 32						
	eS?	N	38 44						
	e(ScS)	N	40 30						
26	eP	ZN	16 07 00						
26	eP	ZNE	22 17 30						
30	eP	Z	01 55 12						
	ePP	ZNE	57 07	0.9	4				
	eS	N	02 13						
NOV 1	eP	ZNE	15 45 37						
1	eP	Z	16 04 56						
1	eP	ZNE	18 04 37						
	eS	E	14 46						
2	eP	ZNE	14 58 03						
3	eP	ZNE	14 38 29						
4	eP	ZNE	23 02 53						
	eS	E	10 33						
	e(Lq)	E	16 38						
	eP'P'	Z	32 58						
5	eP	Z	00 20 05						
7	eP	ZNE	16 14 24						
8	eP	Z	07 58 35						
8	eP	Z	10 13 43						
10	ePKP	ZNE	01 52 06						
	ePKKP	Z	02 02 06						
11	eP	ZNE	07 50 15						
11	eP	ZE	10 42 50						

SMT BASE 1962

Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
XIV 11	eP	Z	11 51 05						
	ePP	Z	53 50						
11	iP	ZNE	16 20 52.0						
	eS	N	29 16						
	eP'P'	ZE	49 06 dnw						
11	eP	ZNE	22 23 36						
	eS	NE	31 16						
12	eP	ZE	21 08 10						
13	eP	ZNE	21 56 09						
	ePP	Z	57 56						
	eS	E	03 25						
14	eP	ZNE	22 11 22						
	eS	E	21 25						
15	eP	ZNE	16 01 51						
15	eP	ZNE	16 19 20						
15	eP	Z	16 36 28						
15	eP	ZNE	23 37 54						
	ePP	Z	41 15						
16	eP	ZNE	07 28 20						
	(Pcs)	E	33 49						
	eS	NE	36 24						
	eLq	E	45.0						1.0 12
	eLr	ZNE	47.2						2.0 18
	eP'P'	Z	58 17						
16	eP	Z	21 23 43						
17	eP	ZNE	14 33 00						
	eS	NE	42 38						
18	eP	ZNE	06 55 17						
18	eP	Z	12 10 39						
19	eP	Z	10 22 03						
19	eP	ZNE	14 02 58						
	eL	NE	09 11						
20	eP	ZNE	10 23 18						
22	eP	Z	07 47 29						
22	eP	Z	20 41 33						
22	eP	Z	24 04 12						
23	eP	ZNE	00 42 18						
23	eP	ZE	00 57 09						
24	eP	ZN	10 42 43						
24	eP	Z	17 34 47						

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Date	Phase		h m s	Az	Tz	An	Tn	Ae	Te
NOV 25	eP	ZE	10 04 24						
26	eP	NE	16 08 19						
27	eP	ZNE	17 03 45						
28	eP	ZE	02 48 52						
28	eP	ZNE	05 14 42						
28	eP	ZE	05 21 23						
29	P	Z	04 07 39						
29	1P	Z	07 39 48.0						
29	P	Z	09 13 32						
29	P	ZN	19 16 47½						
29	P	Z	19 23 37						
30	eP	Z	17 05 53						
DEC 1	eP	ZNE	04 25 43						
i	Z		47.4						
2	eP	Z	05 41 52						
4	eP	Z	10 45 48						
4	eP	Z	16 50 26						
7	ePP	ZNE	14 21 49						
e	ZNE	23 10	0.6	5					
e(PPP)	ZNE	24 00	0.6	4					
8	eP	ZNE	18 29 00	0.8	5				
ePP	Z	31 28							
8	eP	ZNE	21 37 50	0.8	5				
ePP	ZNE	39 48	0.5	4					
e(PPP)	ZN	43 20							
es	ZNE	46 25							
eP'P'	ZNE	22 05 21	1.0	12					
SKPP'	ZNE	08 16	0.5	10					
9	eP	NE	21 04 22						
10	eP	NE	05 07 07						
10	eP	NE	17 05 14						
12	eP	ZNE	10 20 14	0.5	3				
ePP	Z	23 13							
ess	NE	29 40							

Recording discontinued on Dec 17th for installation of World Standard Seismographs.

INSTRUMENTALLY DETERMINED EPICENTRES

The following list includes the epicentres of all instrumentally recorded earthquakes of magnitude 4 and above, together with those shocks of lesser magnitude reported to have been felt. Reports that cannot be verified instrumentally, or by an independent observation are listed only in the index of felt earthquakes. An explanation of the notation will be found at the beginning of the section 'Station Readings'. These epicentres have been plotted on the folding maps in the pocket at the back of this bulletin.

No.	Date	h m s	Epicentre	Depth	Mag.	Class
62/ 1	JAN 1	01 46 51	40.8 S 175.4 E	N	2.9	D
1a	1	03 32 46	41.8 S 176.1 E	S	3.8	B
1b	1	09 33 00	41.7 S 175.9 E	S	3.6	C
1c	1	16 17 48	41.8 S 176.0 E	S	3.8	B
1d	1	17 56 02	41.7 S 175.9 E	S	3.2	C
1e	2	00 35 09	41.8 S 176.0 E	S	3.6	B
2	2	01 08 44	40.1 S 174.0 E	N	3.4	B
3	2	12 13 03	41.9 S 173.8 E	S	2.9	B
3a	2	19 24 31	41.4 S 176 E	S	3.0	D
4	2	23 08 17	35.4 S 180.0 E	N	5.7	C
4a	3	02 46 01	41.2 S 176 E	S	3.2	D
4b	3	10 33 10	41.7 S 176.0 E	S	3.2	D
5	3	12 40 44.7	41.75S 175.9E	S	3.6	B
5a	4	01 40 15	41.7 S 175.9 E	S	3.2	C
5b	4	14 49 22	41.4 S 175.8 E	S	2.9	D
6	4	21 04 31	38.1 S 177.0 E	N	4.5	C
6a	5	07 23 48	41.8 S 176.0 E	S	3.2	D
6b	6	05 21 05	41.7 S 175.9 E	S	3.2	D
6c	6	11 38 18	42.0 S 175.5 E	S	3.1	D
7	7	02 03 24	41.75S 174.6E	S	3.2	C
8	7	23 08 51	40.8 S 176.3 E	S	3.8	B
9	8	16 01 25½	41.9 S 175.8 E	S	3.7	C
9a	8	17 45 30	41.6 S 175.9 E	S	3.1	D
9b	9	05 51 51	41.6 S 176.0 E	S	3.0	C
9c	9	17 21 51	41.7 S 176.1 E	S	3.6	C
10	9	19 57 13	33 S 179½ W	N?	5.0	D
11	10	04 39 34	41.4 S 172.7 E	170 km	3.8	C
12	10	22 00 39	40.1 S 175.9 E	S	5.1	B
13	10	23 29 45	41.3 S 175.9 E	S	3.3	G
14	11	14 17 21	41.8 S 173.7 E	N	4.0	B
15	11	16 24 30	37.0 S 176.6 E	335 km	5.1	C
16	12	08 30 58	37.3 S 177.1 E	S	4.5	C
17	12	10 15 14½	37.3 S 177.1 E	S	4.2	C
18	13	11 05 16	37.2 S 179.5 E	S	5.1	C
19	15	01 57 49	40.1 S 174.8 E	S	3.6	C
20	15	18 17 12	40.6 S 174.9 E	S	3.3	B
21	15	21 33 42	41.8 S 173.6 E	S	3.4	C
22	16	02 10 01	40.2 S 174.0 E	S	3.9	B

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No.	Date	h m s	Epicentre	Depth	Mag.	Class
62/23	JAN 16	02 37 36	41.75S 176.2 E	S	3.8	B
24	16	04 03 21	41.5 S 176.0 E	S	3.3	C
25	16	07 38 02	40.05S 176.15E	S	3.4	C
26	16	09 57 28	40.35S 171.9 E	S	3.0	C
27	17	00 13 52	39.8 S 173.0 E	S	3.7	C
28	19	13 36 54	31 $\frac{1}{2}$ S 179 $\frac{1}{2}$ W	450 km	5.5	D
29	19	22 07 47	48 $\frac{1}{2}$ S 164 $\frac{1}{2}$ E	N	5.3	D
30	20	02 37 47	42.0 S 174.0 E	S	4.2	B
31	22	01 53 02	39.4 S 176.4 E	N	3.7	B
32	22	10 09 08 $\frac{1}{2}$	38.3 S 176.0 E	S	3.3	C
33	22	10 11 47 $\frac{1}{2}$	38.3 S 176.05E	S	3.3	B
34	22	11 11 21	41.1 S 175.7 E	S	3.1	C
35	22	12 11 24	41.1 S 175.7 E	S	3.1	C
36	22	19 39 58	41.05S 175.6 E	S	3.2	D
37	22	19 52 40	41.05S 175.6 E	S	3.0	C
38	23	00 15 41	41.4 S 175.8 E	S	3.3	C
39	23	06 20 13	41.35S 175.8 E	S	3.3	C
40	23	06 49 42	38.55S 174.7 E	S	5.5	B
41	23	06 54 19	38.55S 174.7 E	S	-	D
42	24	10 44 39	38.2 S 175.8 E	255 km	4.7	C
43	24	12 08 35	38.1 S 176.2 E	S	2.6	D
44	24	12 51 19	38.1 S 176.2 E	S	2.8	C
45	24	13 38 53	39.0 S 175.9 E	120 km	4.2	C
46	24	13 57 51	38.1 S 176.2 E	S	2.4	D
47	24	14 44 40	38.1 S 176.2 E	S	3.5	C
48	24	15 04 41	38.1 S 176.2 E	S	2.5	D
49	24	23 24 36	40.1 S 175.0 E	S	3.2	D
50	25	02 52 31	37.5 S 176.7 E	210 km	4.6	C
51	25	12 47 29	38.1 S 179.6 E	S	4.8	C
52	26	11 48 30	36.9 S 178.7 E	S	4.9	C
53	26	13 14 34	42.05S 172.3 E	70 km	3.5	C
54	28	07 48 03	41.45S 173.8 E	S	3.7	B
55	30	01 54 31	37.1 S 177.0 E	270 km	4.7	C
56	30	15 40 34	37.3 S 176.9 E	280 km	4.7	B
57	31	09 07 52	39.0 S 176.6 E	90 km	4.6	B
58	FEB 3	13 03 46	42.2 S 172.5 E	71 km	3.7	C
59	5	13 14 58	38.8 S 175.2 E	172 km	3.9	C
60	12	01 37 13	37.2 S 178.9 E	159 km	4.6	D
61	12	20 54 48	33.2 S 179.2 E	537 km	5.7	D
62	14	15 05 31	37.1 S 176.4 E	260 km	4.6	D
63	15	08 27 00	41.8 S 171.9 E	N	3.4	C
64	16	09 23 23	38.3 S 175.6 E	197 km	4.2	B
65	16	13 06 58	41.4 S 171.8 E	N	3.5	B
66	17	21 16 05	36.4 S 176.5 E	N	3.6	D
67	17	22 09 28	40.5 S 174.5 E	96 km	3.9	B
68	17	22 46 00	38.2 S 177.6 E	N	4.3	D
69	18	19 48 20	40.5 S 173.6 E	121 km	4.3	B
70	22	09 50 23	33.5 S 179.7 W	285 km	5.9	D
71	22	22 41 26	37.2 S 177.0 E	310 km	4.6	B
72	24	07 59 51	44.9 S 167.5 E	N	4.9	C
73	25	02 45 50	34.4 S 177.5 W	159 km	5.3	D
74	25	12 52 44	33.2 S 179.1 W	S	5.2	D
75	25	13 56 22	34.5 S 177 W	159 km	5.3	D
76	26	02 30 34	33.8 S 177.7 W	N	5.3	D
77	27	19 21 36	41.7 S 172.2 W	N	2.8	D
78	27	22 00 52	40.2 S 175.0 E	N	3.5	C
79	28	18 09 20	34.0 S 177.5 W	N	5.4	D
80	MAR 1	12 43 17	39.8 S 175.9 E	S	3.8	C
81	4	20 10 58	37.7 S 176.0 E	310 km	5.3	C
82	5	08 27 30	39.3 S 174.7 E	222 km	4.5	B
83	5	16 47 56	41.8 S 171.9 E	N	3.8	B
84	6	17 05 27	37.2 S 178.4 E	S	4.8	D
85	6	23 55 43	41.2 S 172.3 E	S	3.3	D
86	7	21 56 02	39.3 S 177.7 E	71 km	4.3	C
87	7	23 05 25	38.4 S 175.6 E	172 km	5.0	C

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No.	Date	h m s	Epicentre	Depth	Mag.	Class
52/88	MAR 8	10 33 42	35.0 S 179.5 E	N	5.7	D
89	10	21 30 40	38.0 S 177.9 E	S	5.0	C
90	11	07 56 21	38.8 S 176.2 E	N	5.1	C
91	11	13 26 25	44.7 S 167.9 E	N	4.6	C
92	13	22 13 54	34.2 S 179.1 E	N	5.0	D
93	14	18 33 21	36.8 S 179.0 E	N	4.3	D
94	14	21 40 20	37.9 S 177.2 E	172 km	4.8	C
95	14	23 12 00	40.1 S 174.9 E	58 km	4.4	C
96	16	00 20 47	37.5 S 179.5 E	96 km	4.7	D
97	16	19 31 10	36.4 S 179.5 W	220 km	4.9	D
98	16	22 10 43	36.8 S 179.8 W	N	4.7	D
99	17	04 18 35	33 $\frac{1}{2}$ S 177 W	N	5.0	D
100	17	07 33 36	36.3 S 179.3 W	N	4.8	D
101	17	16 00 00	38.8 S 175.5 E	160 km	4.5	C
102	18	00 40 10	30 S 176 W	N	5.7	D
103	18	16 09 39	38.3 S 176.1 E	180 km	5.5	D
104	19	08 07 47	33 S 179 W	400 km	5.3	D
105	19	15 34 40	31.5 S 180 E	400 km	5.8	C
106	19	18 07 04	39.8 S 175.8 E	N	4.9	D
107	21	11 38 20	36.7 S 179.7 W	N	4.7	D
108	21	17 25 30	36.7 S 179.7 W	N	4.8	D
109	22	13 23 48	40.2 S 173.8 E	170 km	3.7	C
110	22	16 28 48	44 $\frac{1}{2}$ S 167.2 E	N	4	D
111	22	17 46 46	36 $\frac{1}{2}$ S 179 $\frac{1}{2}$ W	N	4 $\frac{1}{2}$	D
112	22	18 34 40	35 $\frac{1}{2}$ S 179 $\frac{1}{2}$ W	N	5	D
113	22	21 23 31	36.3 S 179.0 E	N	5.0	D
114	23	13 20 04	44.5 S 168.3 E	N	4.4	D
115	24	19 24 05	38.6 S 174.0 E	N	4.0	D
116	25	16 23 37	40.4 S 174.8 E	N	3.6	C
117	27	10 47 46	38.6 S 173.7 E	N	4.0	D
118	28	14 12 46	33.5 S 178.0 W	100 km	5.4	D
119	28	18 34 32	33.5 S 178 W	N	5.3	D
120	29	06 20 00	44.5 S 169.0 E	N	4.2	D
121	29	09 16 55	33.5 S 178.5 W	70 km	5.2	D
122	29	12 45 10	37.7 S 179.6 E	N	4.5	D
123	30	13 56 04	40.6 S 178.5 E	150 km	4.9	C
124	APR 2	03 38 17	38.3 S 176.6 E	150 km	4.0	B
125	2	23 32 28	41.5 S 173.7 E	S	3.7	D
126	4	11 30 19	40.5 S 174.8 E	S	4.4	C
127	6	22 28 01	41.8 S 173.3 E	S	4.4	C
128	7	07 14 20	40.4 S 176.6 E	S	4.4	C
129	9	12 16 53	38.5 S 175.5 E	200 km	4.3	D
130	10	03 57 46	37.3 S 180.0 E	S	4.7	D
131	11	05 14 2	33 $\frac{1}{2}$ S 179 W	N	5.2	D
132	11	13 35 26	39.1 S 174.9 E	220 km	4.8	C
133	15	08 25 10	37.9 S 176.9 E	160 km	4.6	C
134	17	05 33 30	41.5 S 174.4 E	S	3 $\frac{1}{2}$	D
135	17	13 40 04	41.5 S 174.4 E	S	3.3	D
136	17	17 05 42	38.2 S 176.4 E	160 km	4.4	C
137	17	17 43 04	42.75S 174.0 E	S	5.7	D
138	17	18 07 54	42.8 S 174.0 E	S	4.2	C
139	18	00 14 11	41 $\frac{1}{2}$ S 174 $\frac{1}{2}$ E	S	3.3	D
140	18	17 25 30	38.2 S 176.7 E	S	4.2	C
141	18	22 15 2	46 $\frac{1}{2}$ S 169 $\frac{1}{2}$ E	S	4.2	C
142	19	17 16 48	40 $\frac{1}{2}$ S 173 $\frac{1}{2}$ E	N?	3 $\frac{1}{2}$	D
143	20	00 43 29	36.3 S 178.4 E	220 km	5.0	D
144	22	17 50 28	39.9 S 174.0 E	100 km	4.8	D
145	22	22 12 06	37.65S 176.6 E	200 km	5.4	D
146	24	00 48 50	44.6 S 167.4 E	S	4.5	D
147	26	19 43 18	44.2 S 167.8 E	S	4.7	D
148	27	16 28 17	33 $\frac{1}{2}$ S 178 $\frac{1}{2}$ W	S	5.4	D
149	29	11 03 1	37.1 S 177.1 E	S	4.3	D
150	29	12 02 4	37.1 S 177.1 E	S	4.0	D
151	30	18 39.8	37.4 S 178.7 E	S	4.1	D
152	MAY 1	03 54 18	36.5 S 178 E	N	3 $\frac{1}{2}$	D

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No.	Date	h m s	Epicentre	Depth	Mag.	Class
62/153	MAY 1	15 45 07	41.3 S 173.5 E	S	3.1	C
154	2	09 48 11	41.1 S 175.0 E	S	4.1	
155	2	10 15 51	42.0 S 172.1 E	S	2.8	B
156	2	13 04 13	41.0 S 174.5 E	S	4.1	C
157	2	21 55 26	39.9 S 175.1 E	110 km	4.2	B
158	3	14 53 06	42.0 S 171.5 E	N	2.9	C
159	4	14 03 55	41.0 S 176.6 E	S	4.1	D
160	5	17 21 16	38.3 S 176.1 E	260 km	4.2	C
161	7	16 06 22	35 S 180	S	4.6	D
162	7	20 42 50	40.2 S 173.7 E	220 km	3.7	D
163	9	09 37 37	44½ S 167½ E	N	4.0	B
164	9	17 29 12	36.9 S 178.2 E	S	4.5	D
165	10	00 27 12.0	41.65 S 171.32 E	12 km	5.9	C
166	10	00 53 28	41.7 S 171.3 E	S	3.8	A
167	10	01 38 41	41.7 S 171.3 E	S	3.6	C
168	10	02 14 26	41.7 S 171.2 E	S	2.6	C
169	10	02 28 36	41.7 S 171.4 E	S	4.3	D
170	10	02 59 01	41.7 S 171.2 E	S	4.2	B
171	10	03 14 10	41.7 S 171.3 E	S	3.6	C
172	10	04 01 34	41.7 S 171.3 E	S	3.6	C
173	10	04 24 22	41.6 S 171.3 E	S	3.7	C
174	10	04 26 36	41.7 S 171.2 E	S	4.8	B
175	10	04 30 59	41.3 S 175.9 E	S	5.7	B
176	10	04 39 53	41.5 S 175.7 E	N	3.6	D
177	10	05 03 02	41.6 S 171.2 E	S	3.5	C
178	10	05 26 33	41.5 S 175.9 E	N	3.5	C
179	10	06 51 48	36½ S 180	N	4.1	D
180	10	06 56 47	41.7 S 171.3 E	S	4.2	C
181	10	06 58 01	41.7 S 171.3 E	S	4.7	C
182	10	07 33 10	41.7 S 171.3 E	S	3.8	C
183	10	08 22 57	41½ S 171½ E	S	3.2	C
184	10	08 32 40	41.7 S 171.3 E	S	3.4	C
185	10	08 48 18	38.2 S 176.0 E	160 km	4.2	C
186	10	10 18 15	41.7 S 171.2 E	S	4.8	B
187	10	10 25 42	41.2 S 175.2 E	S	3.4	C
188	10	11 01 50	41.6 S 171.2 E	S	3.8	C
189	10	11 10 49	41.6 S 171.2 E	S	4.4	C
190	10	12 03 21	41.2 S 175.9 E	S	4.2	C
191	10	19 54 56	41½ S 171½ E	S	3.6	D
192	10	20 21 57	41.7 S 171.2 E	S	3.9	C
193	10	22 21 00	41½ S 171½ E	E	3.8	D
194	10	23 55 42	41.8 S 171.2 E	S	3.9	C
195	11	00 04 08	41.7 S 171.2 E	S	3.5	C
196	11	01 33 20	31½ S 179½ E	350 km	5.6	D
197	11	07 0L 25	39.4 S 175.3 E	100 km	4.4	C
198	11	07 37 56	41½ S 171½ E	E	3.4	D
199	11	10 13 35	41.7 S 171.3 E	S	4.0	B
200	11	11 34 23	41½ S 171½ E	E	3.5	D
201	11	12 25 05	41½ S 171½ E	E	3.4	D
202	11	13 35 24	41½ S 171½ E	E	3.5	D
203	11	21 03 34	41.7 S 171.2 E	S	4.0	B
204	11	21 48 37	41.6 S 171.2 E	S	3.4	C
205	11	23 56 03	41½ S 171½ E	E	3.3	D
206	12	07 46 56	41½ S 171½ E	E	3.2	D
207	12	15 49 17	40.4 S 173.9 E	N	2.8	D
208	12	15 51 45	41.6 S 171.2 E	S	3.7	C
209	13	01 05 52	43½ S 168	E	3.8	D
210	13	07 18 42	41.6 S 171.2 E	S	3.6	C
211	13	08 56 37	41.6 S 171.2 E	S	3.7	C
212	13	16 38	Near Cromwell (133)			
213	14	04 23 22	41½ S 171½ E	S	3.4	D
214	14	10 22 30	39.3 S 178.1 E	N	4.9	B
215	14	12 22 25	41.7 S 171.2 E	S	3.7	C
216	14	13 00 42	41½ S 171½ E	S	2.9	D
217	14	19 28 08	42.2 S 174.2 E	S	3.6	D

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42/218	MAY 16	03 01 45	41.5 S 174.0 E	S	3.3	D
	219	16 10 27 12	40.1 S 175	E	2.9	D
	220	16 10 28 27	38.75 S 176.0 E	S	4.5	C
	221	16 13 47 (03)	41½ S 171½ E	S	3.0	D
	222	16 14 50 36	41½ S 171½ E	S	4.1	D
	223	17 02 19 52.2	41.80 S 171.30 E	12 km	5.6	A
	224	17 02 22 08	41½ S 171½ E	S	5.2	D
	225	17 02 28 27	41½ S 171½ E	S	2.8	D
	226	17 02 37 45	41½ S 171½ E	S	3.1	D
	227	17 02 51.0	Near Westport (79)			
	228	17 03 39 31	41½ S 171½ E	S	3.7	D
	229	17 07 46 06	41.5 S 173.7 E	S	3.5	C
	230	17 16 14 16	41½ S 171½ E	S	2.9	D
	231	17 20 11 00	38½ S 176	E	3½	D
	232	18 12 47±	Near Westport (79)			
	233	18 12 55±	Near Westport (79)			
	234	18 19 50±	Near Takaka (72)			
	235	19 11 06 50	41.7 S 171.4 E	S	3.9	C
	236	19 15 36 44	41.7 S 171.4 E	S	3.2	D
	237	19 17 01 39	41.8 S 171.8 E	S	2.8	D
	238	19 17 53 52	41.7 S 171.3 E	N	2.8	D
	239	19 17 56 28	41½ S 171½ E	N	2.5	D
	240	19 21 15 04	41.7 S 171.2 E	N	4.5	C
	241	19 21 38 07	44.9 S 167.5 E	N	4.6	D
	242	20 16 52 51	39.5 S 177.6 E	N	4.2	C
	243	20 17 01 22	41.3 S 174.8 E	S	3.1	D
	244	21 04 35 17	37.9 S 176.0 E	285 km	4.6	B
	245	21 15 21 52	41½ S 171½ E	S	3.0	D
	246	23 20 43 26	40.3 S 177	E	3.8	D
	247	24 18 08 22	38.4 S 175.9 E	184 km	4.1	C
	248	25 11 34 54	41½ S 171½ E	S	2.7	D
	249	28 18 10 40	37.8 S 176.2 E	180 km	4.5	C
	250	28 18 20 55	41.0 S 172.7 E	N	2.8	D
	251	30 04 41 00	41.0 S 172.7 E	S	2.2	D
	252	30 05 47 08	37.6 S 178.0 E	160 km	5.4	D
JUN	1	03 35 29	41.8 S 171.6 E	E	3.7	B
	253	05 46 13	41.7 S 171.2 E	S	3.5	C
	254	07 09 23	37.9 S 177.5 E	S	4.1	C
	255	12 04 05	41.7 S 171.3 E	S	2.9	D
	256	15 12 04	41.8 S 171.6 E	S	2.7	D
	257	15 08 15 56	36.2 S 178.1 E	S	4.4	C
	258	09 04 42 34	41.8 S 171.3 E	S	4.2	C
	259	08 11 46 11	41.8 S 171.3 E	S	3.2	C
	260	08 13 22 47	41.8 S 171.6 E	S	3.1	D
	261	10 03 20 53	38.6 S 177.9 E	S	4.0	B
	262	10 07 04.9	41½ S 171½ E	E	2.5	D
	263	10 21 30 46	40.9 S 172.6 E	S	3.3	C
	264	14 14 12 20	38.6 S 175.9 E	200 km	4.4	B
	265	15 06 49 50	41.1 S 172.7 E	190 km	5.4	C
	266	16 17 00 03	38.6 S 175.8 E	160 km	4.5	B
	267	17 09 14 35	41.7 S 171.3 E	S	4.5	B
	268	18 19 29 26	37.9 S 176.5 E	210 km	4.6	C
	269	19 06 17 49	37.55 S 175.65 E	185 km	5.8	B
	270	19 11 23 58	43.2 S 170.8 E	S	4.1	B
	271	19 00 24 47	40.2 S 175.45 E	S	3.7	B
	272	21 10 18 37	37.4 S 176.9 E	220 km	4.9	B
	273	22 10 29 25	37.95 S 176.8 E	S	4.0	B
	274	22 14 43 35	37.95 S 176.8 E	S	3.5	C
	275	23 05 07 00	41½ S 171½ E	S	2.4	D
	276	23 14 16 02	37.95 S 176.8 E	S	3.6	D
	277	23 17 50 45	43.0 S 171.2 E	S	4.3	B
	278	23 18 05 23	43.0 S 171.2 E	S	2.9	C
	279	23 18 28 30	41.9 S 171.5 E	S	3.7	C
	280	23 19 37 43	43.0 S 171.2 E	S	3.5	C
	281	25 00 28 51	38.1 S 176.5 E	S	3.7	C

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62/283	JUN 25	21 28 57	41.8 S 174.1 E	S	3.7	B
284	26	02 43 01	39.4 S 176.0 E	S	4.3	C
285	26	12 33 40	42.85 S 172.5 E	S	3.5	C
286	26	12 40 57	39.4 S 174.3 E	250 km	4.4	B
287	29	11 45 23	39.9 S 175.4 E	S	3.8	B
288	30	05 39 14	39.0 S 175.4 E	S	3.3	C
289	30	13 18 24	42 S 171 $\frac{1}{2}$ E	S	2.5	D
290	JUL 2	09 02 20	37.90 S 175.9 E	280 km	4.5	B
291	7	11 11 17	38 $\frac{1}{2}$ S 178 E	N	-	D
292	10	15 24 48	38.5 S 175.8 E	180 km	4.2	C
293	10	17 21 13	41 $\frac{1}{2}$ S 171 $\frac{1}{2}$ E	S	2.9	D
294	12	01 07 41	34 S 178 W	N?	5.4	D
295	13	04 10 59	33 S 179 W	200 km	5.9	D
296	15	10 58 34	41.0 S 175.3 E	S	4.0	B
297	17	10 38 08	38.0 S 177.4 E	S?	4	D
298	22	07 03 02	41.2 S 175.2 E	N	2 $\frac{1}{2}$	D
299	22	14 05 57	41.5 S 172.1 E	S	4.5	C
300	22	19 16 34	37.7 S 178.7 E	S	4.5	C
301	22	23 50 51	38.7 S 175.8 E	130 km	4.2	B
302	25	10 26 40	41.7 S 171.6 E	S?	3.0	D
303	26	03 39 52	41.9 S 171.9 E	S?	3.0	D
304	28	23 39 12	44.1 S 168.6 E	S?	5.4	C
305	29	07 44 37	42.2 S 172.9 E	S	3.4	C
306	29	18 19 52	41.3 S 173.4 E	85 km	5.7	B
307	AUG 1	09 40 13	38.5 S 176.1 E	195 km	4.8	C
308	3	07 22 31	34 S 179 W	350 km	5.3	D
309	4	05 47 03	41.1 S 172.6 E	N	2.6	D
310	4	10 03 23	44.5 S 167.8 E	N	4.1	D
311	5	15 12 45	41 $\frac{1}{2}$ S 171 $\frac{1}{2}$ E	N	2.4	D
312	7	06 25 34	41.8 S 173.8 E	N	3.5	C
313	7	16 14 18	41.2 S 176 E	N	3.4	D
314	10	04 33 53	42.4 S 172.6 E	S	3.4	D
315	10	14 30 08	37 $\frac{1}{2}$ S 176 $\frac{1}{2}$ W	N	4.9	D
316	12	02 06 34	37.9 S 176.2 E	310 km	4.9	C
317	12	14 54 35	37.9 S 175.8 E	S	3 $\frac{1}{2}$	D
318	18	06 41 45	41.9 S 171.2 E	S	3.2	C
319	19	15 34 57	40.2 S 174.2 E	S	3.7	C
320	20	06 06 15	42.5 S 174.4 E	S	3.6	C
321	21	07 24 45	35.0 S 176.5 W	N	5.0	D
322	21	20 47 00	45.0 S 168.0 E	N	4.5	C
323	22	03 57 37	41.3 S 174.2 E	S	3.6	C
324	22	06 35 46	39.9 S 175.2 E	N	2.6	D
325	22	07 42 55	39.8 S 175.4 E	S	4.1	B
326	22	08 46.5	Near Okia (57)			
327	23	05 24 21	42.9 S 171.0 E	S	3.8	C
328	24	07 07 15	38.5 S 176.5 E	N	4.3	C
329	24	08 21 29	43.4 S 170.6 E	S	3.2	D
330	25	04 46 17	40 S 175.4 E	N	3 $\frac{1}{2}$	D
331	26	02 17 22	33 S 178 $\frac{1}{2}$ W	N	4.6	D
332	27	03 24 43	42 S 171 E	S	3.8	D
333	28	03 52 03	38.9 S 175.8 E	160 km	4.7	C
334	30	06 04 40	41.7 S 171.7 E	S	3.8	C
335	30	06 11 40	37.5 S 178.6 E	S	4.6	D
336	31	09 50 55	39.9 S 174.0 E	135 km	3.9	C
337	31	14 56 50	38.9 S 175.8 E	185 km	4.5	C
338	SEP 1	21 02 03	44.4 S 168.2 E	S	3.5	C
339	2	20 16 42	38.6 S 179.6 W	N	5.7	B
340	2	22 39 23	38.6 S 179.0 W	N	5.1	C
341	4	08 31 00	34.6 S 179.6 W	N	5.1	C
342	7	01 39 07	37.4 S 176.4 E	S	3 $\frac{1}{2}$	D
343	7	06 16 23	44.3 S 168.6 E	S	3.6	C
344	7	06 21 57 $\frac{1}{2}$	37.35 S 176.35 E	S	3 $\frac{1}{2}$	C
345	7	07 04 24	44.4 S 168.7 E	S	4 $\frac{1}{2}$	C
346	7	07 14 05	37.35 S 176.35 E	S	3 $\frac{1}{2}$	C
347	7	14 55 23 $\frac{1}{2}$	37.25 S 176.2 E	S	3	D

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348	SEP 10	03 22 04	41.95 S 171.8 E	S	3.4	C
349	10	07 28 14	38.5 S 174.6 E	S	3 $\frac{1}{4}$	B
350	10	09 54 20	43.5 S 171.0 E	S	2.7	C
351	10	22 28 58	44.8 S 175.4 W	N	5.1	C
352	11	01 18 40	33.7 S 178.7 W	N	5.2	C
353	11	13 35 55	40.25 S 173.5 E	180 km	4.5	B
354	11	17 36 40	41.6 S 172.1 E	S	3.4	C
355	12	01 02 56	40.0 S 174.5 E	110 km	4.2	B
356	12	12 14 42	38.9 S 179.0 W	N	5.0	D
357	13	15 33 28	39.0 S 175.0 E	215 km	5.2	B
358	14	09 57 32	41.3 S 172.8 E	135 km	4.1	B
359	14	13 12 21	37.4 S 176.3 E	S	3 $\frac{1}{4}$	B
360	14	13 13 49	37.2 S 176.2 E	S	3 $\frac{1}{4}$	C
361	14	13 18 20	37.4 S 176.3 E	S	3 $\frac{1}{4}$	D
362	14	13 22 12	37.25 S 176.25 E	S	3 $\frac{1}{4}$	C
363	14	22 01 40	41.8 S 171.4 E	S	3.4	C
364	15	19 05 51	35 S 178 W	N	5.2	C
365	16	07 54 45	37.6 S 176.3 E	S	3.9	D
366	17	13 53 34	37.9 S 176.9 E	235 km	4.4	B
367	18	04 11 01	37.45 S 176.4 E	S	3 $\frac{1}{2}$	C
368	18	10 51 18	37.4 S 176.3 E	S	3	C
369	18	16 27 10	37.5 S 176.3 E	S	3 $\frac{1}{4}$	C
370	18	23 22 57	37.4 S 176.4 E	S	3 $\frac{1}{4}$	C
371	19	07 43 23	37.65 S 176.3 E	S	3 $\frac{1}{4}$	C
372	19	13 44 21	37.6 S 176.4 E	S	3 $\frac{1}{2}$	C
373	20	03 46 23	37.65 S 176.2 E	S	3	C
374	20	04 58 27	37.65 S 176.25 E	S	3 $\frac{1}{4}$	C
375	21	02 20 17	37.55 S 176.3 E	S	3 $\frac{1}{2}$	C
376	22	13 15 26	38.35 S 176.1 E	135 km	-	B
377	22	15 08 04	36.9 S 178.1 E	S	5.8	B
378	22	17 33 05	44.7 S 167.8 E	S	4.3	C
379	22	21 58 13	37.55 S 176.3 E	S	3	C
380	23	12 12 29	37.7 S 176.3 E	S	3 $\frac{1}{4}$	C
381	24	11 29 05	41.0 S 172.7 E	S	4.3	C
382	25	02 30 19	38.0 S 178.1 E	S	4.4	C
383	25	17 05 29	37.55 S 176.3 E	S	3 $\frac{1}{4}$	D
384	26	10 46 44	37.7 S 176.4 E	S	4.6	B
385	26	11 05 18	37.8 S 176.05 E	S	3 $\frac{1}{4}$	B
386	26	11 30 37	37.8 S 176.2 E	S	3 $\frac{1}{2}$	B
387	26	14 18 16	40.9 S 175.9 E	S	4.1	B
388	26	14 30 43	37.45 S 176.3 E	S	3 $\frac{1}{2}$	C
389	26	16 33 13	37.7 S 176.3 E	S	4	B
390	27	00 54 34	35.7 S 179.1 W	N	5.0	C
391	27	14 40 25	37.4 S 177.4 E	S	5.5	C
392	28	17 10 02	37.5 S 176.3 E	S	3 $\frac{1}{2}$	C
393	29	14 30 35	49.0 S 165.0 E	N	5.0	C
394	29	23 32 13	37.75 S 176.35 E	S	4.5	A
395	29	23 45 17	37.45 S 176.2 E	S	3 $\frac{1}{4}$	C
396	30	02 12 34	37.4 S 176.4 E	S	3 $\frac{1}{2}$	D
397	30	02 57 56	40.9 S 175.4 E	S	4.0	B
398	30	11 20 56	38.6 S 175.9 E	175 km	5.5	B
399	30	16 13 40	38.5 S 177.7 E	S	4.0	C
400	OCT 1	22 37 08	39.0 S 175.6 E	N	4.2	C
401	3	01 04 40	43 S 172 $\frac{1}{2}$ E	N	2.7	D
402	3	13 30 43	40.2 S 174.9 E	S	3.0	D
403	4	00 39 39	Near Tauranga (26)			
404	4	13 15 33	36 $\frac{1}{2}$ S 178 E	S	4.7	D
405	5	01 17 48	40.2 S 175.1 E	N	3.7	C
406	5	03 46 51	44.8 S 167.6 E	N	3.8	D
407	5	20 09 38	44.6 S 167.6 E	S	4.9	C
408	6	07 27	Near Tutira (52)			
409	9	00 25 25	44.6 S 167.8 E	S	4.7	D
410	9	08 23 18	39.7 S 175.9 E	S	3.8	C
411	10	16 26 22	34.6 S 179.8 W	200 km	5.2	D
412	10	23 26 22	40.0 S 174.3 E	S	4.1	C

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62/413	OCT 12	01 44 49	33.1 S 178.2 W	N	5.3	D
414	12	06 35 33	38.4 S 175.8 E	170 km	4.4	D
415	13	06 22 52	38.4 S 176.7 E	110 km	4.7	D
416	13	08 28 35	38.3 S 175.9 E	185 km	5.4	C
417	13	16 47 10	38.6 S 175.8 E	160 km	4.3	C
418	14	00 29 58	33.8 S 178.7 W	N	5.7	D
419	14	01 33 52	35 S 179 E	280 km	4.8	D
420	14	09 32 00	35 S 178 W	N	5.1	D
421	15	13 59 50	33 S 178½ W	100 km	5.3	D
422	15	21 49 34	34 S 177 W	60 km	4.7	D
423	15	23 36 31.1	43.45S 169.65E	S	6.1	B
424	16	23 02 09	39.3 S 177.7 E	S	4.1	B
425	17	03 18 24	36 S 179 E	280 km	5.0	C
426	17	11 38 43	41.2 S 172.1 E	S	3.6	D
427	18	10 25 59	41.8 S 171.5 E	S	4.0	C
428	18	13 03 08	41.8 S 171.5 E	S	3.2	D
429	19	08 51 53	34 S 178 W	S	5.0	D
430	19	17 14 15	33.5 S 180.0	300 km	6.3	D
431	20	10 43 10	43 S 171 E	N	3.1	D
432	20	15 48 41	40.5 S 173.2 E	220 km	4.1	D
433	20	21 32 42	34 S 178 W	N	5.0	D
434	21	22 37 42	38.1 S 175.7 E	270 km	4.6	C
435	22	05 20 06	38.8 S 179.1 W	N	5.1	C
436	23	03 12 12	38.6 S 175.8 E	160 km	4.8	C
437	24	00 41 48	37.0 S 178.0 E	90 km	5.1	D
438	26	07 53 57	38.4 S 177.8 E	100 km	4.5	D
439	27	23 29 56	34½ S 178 W	N	5.4	D
440	29	09 23 40	37.2 S 176.1 E	N	3.3	C
441	30	13 33 03	37.1 S 176.1 E	S	3.0	D
442	31	14 22 26	37.3 S 176.2 E	S	3.1	D
443	NOV 2	17 31 18	39.7 S 176.9 E	S	4.3	C
444	2	18 47 34	38.5 S 175.4 E	260 km	5.0	C
445	3	18 05 1	38.4 S 179.0 E	S	4.8	D
446	5	00 12 30	37.9 S 179.6 E	S	5.2	D
446a	7	16 10	Near Kumara (92)	-	-	-
447	8	07 48 54	38.0 S 177.0 E	N	-	C
448	10	14 53 44	38.6 S 179.5 E	S	4.7	C
449	11	02 17 19	38.3 S 176.9 E	S	3½	D
450	11	11 25 31	41.5 S 172.1 E	S	3.8	B
451	14	05 30 56	41.5 S 172.8 E	130 km	3.6	B
452	18	23 38 27	37.1 S 178.0 E	140 km	4.7	C
453	19	18 05 18	39½ S 177 E	S	3.7	D
454	21	07 17	36 S 179 E	S?	4.6	D
455	22	14 00 1	41.8 S 171.5 E	N	2.8	D
456	23	16 20 56	37.6 S 176.5 E	S?	-	D
457	28	02 40 05	41.2 S 176.3 E	S	3.2	C
458	29	23 33 15	38.1 S 176.0 E	280 km	4.7	C
459	30	09 19 53	41.3 S 175.5 E	S	3.2	C
460	30	12 24 36	40.1 S 172.7 E	S	3.2	C
461	30	13 36 10	38.6 S 176.1 E	S?	-	D
462	DEC 1	09 37 11	37.9 S 176.4 E	180 km	4.7	B
463	4	19 51 39	41.6 S 174.2 E	S	3.5	C
464	4	22 14 25	37.8 S 176.6 E	210 km	4.9	B
465	6	13 21 14	39.6 S 174.15E	210 km	4.5	C
466	7	12 59 05	38.8 S 175.85E	190 km	4.7	B
467	10	04 12 47½	39.95S 176.0 E	S	4.7	B
468	10	18 57 22	37.8 S 176.2 E	270 km	5.2	C
469	12	09 15 07½	37.2 S 176.8 E	430 km	4.4	B
470	13	09 42 30	37.5 S 177.7 E	S	4.5	B
471	13	15 31 49	39.85S 175.3 E	S	3.1	C
472	13	17 21 41	43.05S 172.7 E	S	4.4	B
473	14	02 58 26	38.1 S 176.0 E	235 km	4.8	C
474	14	03 58 26	38.2 S 175.8 E	265 km	4.7	C
475	14	16 50 12	44.8 S 167.6 E	N	4.1	C
476	17	09 07 08	40.4 S 175.1 E	S	3.6	C

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No.	Date	h m s	Epicentre	Depth	Mag.	Class
62/477	DEC 17	11 49 38	37.8 S 176.6 E	S	2½	C
478	17	12 37 58	37.8 S 176.6 E	S	2½	C
479	17	12 39 28	37.5 S 176.8 E	S	3	C
480	19	04 14 49	38.3 S 176.0 E	180 km	4.3	D
481	20	00 25 43	39.1 S 175.3 E	210 km	4.2	D
482	23	10 08 05	38.2 S 176.7 E	S	-	C
483	23	10 09 02	38.15S 176.8 E	S	-	C
484	23	10 12 10	38.2 S 176.7 E	S	-	C
485	23	15 34 39	37.7 S 179.2 E	S	5.3	C
486	25	02 03 53	38.55S 176.05E	S	3.9	C
487	25	12 37 03	40.75S 175.05E	N	3.6	C
488	26	01 07 17	42.9 S 171.5 E	70 km	3.9	B
489	27	02 28 10	32 S 178 W	N?	5.9	D
490	30	10 12 44	38.0 S 176.85E	210 km	4.6	C
491	31	13 48 38	38.1 S 176.3 E	205 km	4.6	B
492	31	17 00 12	37.5 S 177.7 E	S	4.4	B

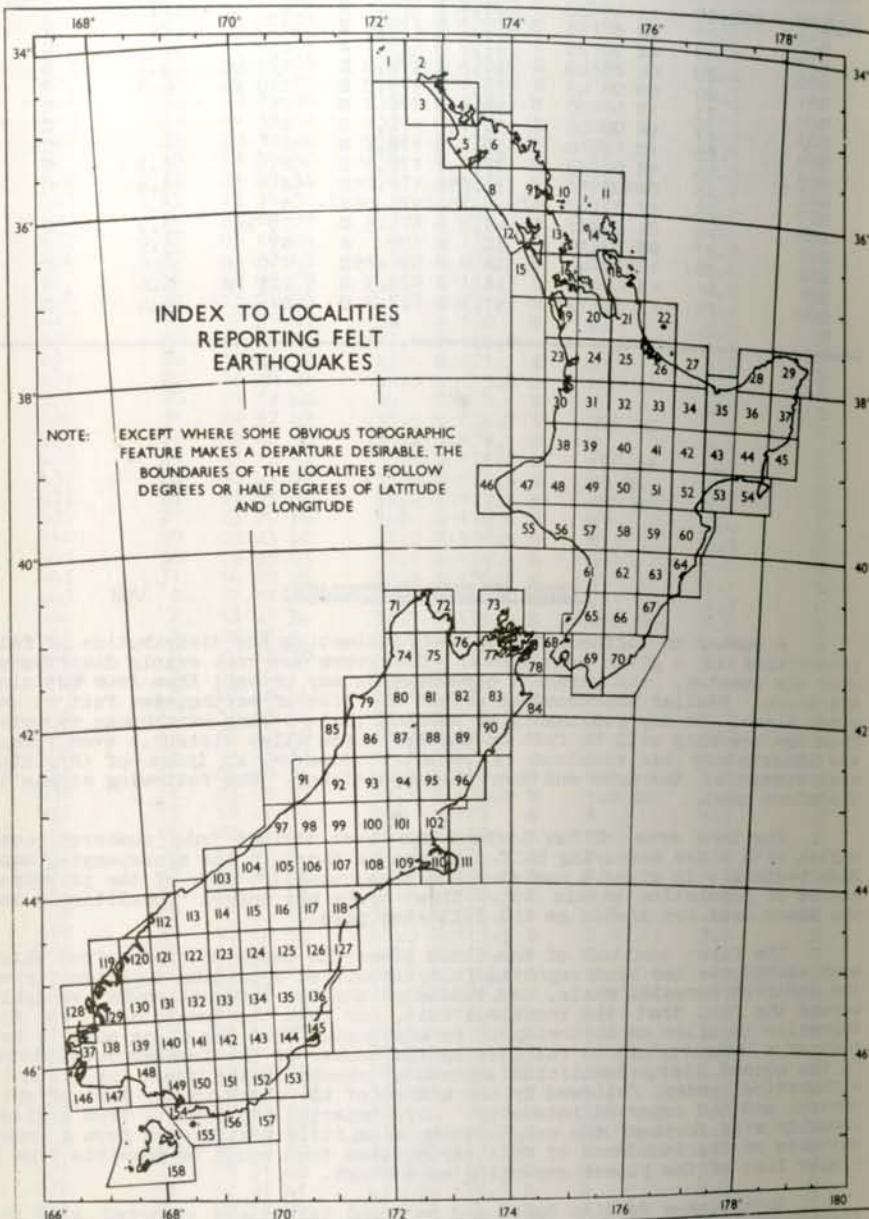
INDEX OF FELT EARTHQUAKES

A number of difficulties arise in estimating the distribution of felt intensities in a given earthquake. Observers are not evenly distributed over the country, and personal circumstance may prevent them from noticing the shock. Similar shortcomings affect the list of earthquakes felt at any given place. It may reasonably be assumed that a strong earthquake reported from one township will be 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. The following scheme is therefore used.

The land area of New Zealand has been divided into numbered rectangles, with sides measuring half a degree, as shown in 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 used are listed on the following page.

The first section of the index gives the names of places from which each earthquake has been reported felt, classified according to intensity on the Modified Mercalli scale. 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. When the place name is not that of a 'locality' it is followed by the number of the locality in brackets. In the second list, localities reporting shocks in the year are given in alphabetical order, followed by the number of the shock in the list of epicentres and the reported intensity. By comparing the reports from a given locality with those of the neighbouring ones, it is possible to form a truer estimate of the incidence of felt earthquakes than would be possible from a simple list of the places reporting each shock.

Earthquakes felt in Samoa and on Raoul Island are reported with the instrumental readings for Apia and Raoul respectively.

LIST OF REPORTING LOCALITIES

Three Kings	54	Mahia	107	Mt. Somers
Te Reinga	55	Hawera	108	Ashburton
Ninety Mile Beach	56	Waverley	109	Rakaia
Doubtless Bay	57	Wanganui	110	Christchurch
Kaitaia	58	Taihape	111	Akaroa
Kaikohe	59	Ruahine	112	Big Bay
Bay of Islands	60	Hastings	113	Jacksons Bay
Dargaville	61	Bulls	114	Makarora
Whangarei	62	Palmerston North	115	Lake Ohau
Bream Head	63	Dannevirke	116	Pukaki
Moko Hinau	64	Porangahau	117	Fairlie
Kaipara	65	Otaki	118	Timaru
Warkworth	66	Masterton	119	George Sound
Barrier Islands	67	Castlepoint	120	Milford
Helensville	68	Wellington	121	Glenorchy
Auckland	69	Featherston	122	Arrowtown
Waiteke	70	Martinborough	123	Wanaka
Cromwell	71	Mt. Stevens	124	St. Bathans
Pukekohe	72	Takaka	125	Kurow
Mercer	73	D'Urville Is.	126	Dunroon
Thames	74	Karamea	127	Waimate
Mayor Is.	75	Motueka	128	Secretary Is.
Raglan	76	Nelson	129	Doubtful Sound
Hamilton	77	Blenheim	130	Te Anau
Matamata	78	Picton	131	Livingstone Mts.
Tauranga	79	Westport	132	Kingston
Whakatane	80	Murchison	133	Alexandra
Te Kaha	81	Glenhope	134	Poolburn
East Cape	82	Wairau	135	Ranfurly
Kawhia	83	Awatere	136	Oamaru
Te Kuiti	84	Cape Campbell	137	Resolution Is.
Tokoroa	85	Greymouth	138	Pillans Pass
Rotorua	86	Reefton	139	Monowai
Murupara	87	Maruia	140	Mossburn
Opotiki	88	Hanmer	141	Waikaiwa
Motu	89	Clarence	142	Roxburgh
Tolaga Bay	90	Kaikoura	143	Lawrence
Mokau	91	Hokitika	144	Outram
Taumarunui	92	Kumara	145	Dunedin
Tokaanu	93	Arthur's Pass	146	Puysegur Pt.
Taupo	94	Lake Sumner	147	Poteretere
Te Whaiti	95	Culverden	148	Tuatapere
Tuai	96	Cheviot	149	Invercargill
Whakapunaki	97	Franz Josef	150	Gore
Gisborne	98	Hari Hari	151	Clinton
Cape Egmont	99	Whitcombe Pass	152	Balclutha
New Plymouth	100	Lake Coleridge	153	Waihola
Whangamomona	101	Oxford	154	Bluff
Ohakune	102	Rangiora	155	Ruapuke
Chateau	103	Haast	156	Tahakopa
Kaweka	104	Bruce Bay	157	Owaka
Napier	105	Mt. Cook	158	Stewart Is.
Wairoa	106	Tekapo		

PLACES REPORTING FELT EARTHQUAKES

62/6 Jan 14d 21h 01m
MM3 Oruaiti Beach (28)

62/12 Jan 10d 22h 00m
MM4 Raetihi (49); Hunterville (58).
MM3 Ohakune (49); Hawera (55); Dannevirke (63).
MM2-3 Stratford (47)
MM2 Bunnythorpe (62).
? Waiouru (50); Palmerston North (62); Levin (65).

62/30 Jan 20d 02h 37m
MM1 Lowry Bay (68)

62/32 Jan 22d 10h 09m
MM3 Ngakuru (33)
? Atiamuri (33)

62/33 Jan 22d 10h 11m
MM3 Ngakuru (33)
? Atiamuri (33)

62/40 Jan 23d 06h 49m (See isoseismal map)
MM7 Aria (38)
MM6 Benneydale, Mahoenui (38)
MM5 Cambridge (24); Paemako (30); Waitomo (31);
Kotare, Uruti (38); Turangi (40); Purangi (47); Ohakune (49).
MM4 Auckland, Glendowie, Mechanics Bay, Royal Oak,
Titirangi (16); Ardmore, Onehhero, Pukekawa (19); Te Karaka (23); Cambridge, Fencourt,
Horsham Downs, Huntly, Maungatautari, Ngahine-pouri, Ngaruawahia, Pirongia (24); Kiwitahi,
Ohauiti, Richmond Downs, Tirau, Whitehall (25); Hicks Bay (29); Kawhia, Marokopa (30);
Ngutunui, Otorohanga Tupuwai (31); Mangakino, Maraetai, Whakamaru (32); Mokau River (38);
Owhango (39); Turangi (40); Cape Egmont, Oakura (46); New Plymouth, Eltham, Inglewood,
Tarata, Tariki, Waitara (47); Omoana (48); Ohakune, Raetihi (48); Erua, Otukou, Rangipo,
Taurewa (50); Hawera, Waverley (56); Wanganui, Kaipaore, Okoia, Parihauhau (57); Mangaweka,
Mataroa, Moawhango, Pohonui, Taihape (58); Komako (62); Shannon (65).
MM3 Oneroa (17); Papakura, Waiuku (19); Kerepeehi, Turua, Waihi Beach (21); Hamilton, Hoe-o-Tainui, Karapiro, Roto-o-Rangi, Tuwhare (24);

Morrinsville, Ngarua, Springdale, Te Aroha, Wardville (25); Te Pupe (26); Rangititi (31); Opotiki (35); Taumarunui, Mokauiti (39); Tokaanu (40); Wairenega-o-Kuri (44); Stratford (47); Ngamatea (51); Alton (55); Moawhango, Rewa, Taoroa (58); Marakeke (63).
MM2 Chiltern (18); Manawaru, Matamata (25); Lichfield, Putaruru (32).
'Not Felt' reports were received from the following localities: 5-9, 12, 13, 16, 17, 19-21, 25-28, 33-37, 41-43, 52-54, 58-67, 69, 70.

62/43 Jan 24d 12h 08m
? Rotorua (33)

62/44 Jan 24d 12h 51m
? Rotorua (33)

62/46 Jan 24d 13h 57m
? Rotorua (33)

62/47 Jan 24d 14h 44m
MM4 Rotorua (33)

62/48 Jan 24d 15h 04m
? Rotorua (33)

62/57 Jan 31d 09h 07m
MM3 Galatea (34); Waitangirua (36).
? Murupara (34)

62/63 Feb 15d 08h 27m
MM3 Westport (79)

62/65 Feb 16d 13h 06m
MM4 Westport (79)

62/77 Feb 27d 19h 21m
MM4 Murchison (80)

62/83 Mar 5d 16h 47m
MM4 Murchison (80)

62/84 Mar 6d 07h 05m
MM3 Waitangirua (36)

62/89 Mar 10d 21h 30m
MM3 Te Puia (37)

62/90 Mar 11d 07h 56m
MM4 Wairoa (53)
MM2 Gisborne (45)

62/103 Mar 18d 16h 09m
MM2 Lowry Bay (68)

62/106 Mar 19d 18h 07m
MM4 Hunterville, Taihape (58); Foxton (61);
Dannevirke (63).
MM3 Wanganui (57); Waipawa (60).
MM2 Bunnythorpe, Palmerston North (62); Dannevирке (62).

62/125 Apr 2d 23h 34m
MM3 Wellington (68)

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62/126 Apr	4d MM3	11h 30m Foxton (61)
62/127 Apr	6d MM4	22h 28m Westport (79)
62/128 Apr	7d MM4 MM2	07h 14m Waipawa (60) Dannevirke (63); Porirua (68).
62/134 Apr	17d MM3	05h 33m Wellington (68)
62/137 Apr	17d MM4	17h 43m Tadmor (75); St. Arnaud (81); Leatham (82); Kaimata (92); Hanmer (95); Cheviot (96); Akaroa, Le Bon's Bay (111). Also on board M.V. Tanea, at 42°53'S 175°45'E. MM3 Foxton (61); Porirua, Wainui-o-mata (68); Blenheim (77); Westport (79); Kaikoura (90); Orari Gorge (118); Otiake (126). MM2 Dannevirke (63); Lower Hutt, Paekakariki; Wellington, York Bay (68); Greymouth (85). ? 'sharp' 'moderate' 'slight' Temuka (118); Nelson (76); Westport (79); Christchurch (110). Kikiwa (81) Culverden (95)
62/138 Apr	17d ?	18h 07m Cheviot (96)
62/139 Apr	18d MM3-4	00h 14m Wellington (68)
62/140 Apr	18d MM4	17h 25m Kawerau (34)
62/141 Apr	18d MM4 MM3 MM2	22h 15m Quarry Hills (156) Waikawa (156) Balclutha (152)
62/144 Apr	22d MM3 MM2	17h 51m Porirua (68) Dannevirke (63)
62/154 May	2d MM4 MM3 MM2	09h 48m Paekakariki, Wellington (68) Paraparaumu, Waitarere Beach (65); Paekakariki, Paremata, Porirua, Wainui-o-mata, York Bay (68). Lower Hutt, Wellington (68)
62/155 May	2d MM3	10h 15m Murchison (80)
62/156 May	2d MM4 MM3 MM2	13h 04m Waikanae Beach (65) Paraparaumu, Waitarere Beach (65); Khandallah, Paekakariki (68). Porirua, York Bay (68)
62/158 May	3d MM4	14h 53m Westport (79)
62/165 May	10d MM7	00h 27m (See isoseismal map) Westport (79)

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MM6-7	Blackball, Greymouth (85)
MM6	Murchison (80); Barrytown (85); Reefton (86); Kowhiterangi (91); Kumara (92); Haupiri (93). Inangahua (79)
MM5-6	Inangahua (79); Hokitika, Ross (91); Hokonu (92); Waitaha (98). MM4-5 Upper Grey River (87); Rotomanu (93); Craigieburn (100).
MM4	Paturau River (71); Uruwhenua (72); Karamea (74); Cobb River, Dovedale, Tadmor, Thorpe (75); Mapua, Nelson (76); Murchison, Six Mile (80); St. Arnaud (81); Leatham, Maruia (87); Hokitika (91); Kaimata (92); Haupiri (93); Hanmer, Hawarden (95); Spotswood (96); Lower Whatanoa (97); Hari Hari (98); Flock Hill, Glenthorne High Peak (100); Haast (103); Highfield (118); Collingwood (72); Howard (81). MM3-4 Porirua (68); Bainham, Farewell Spit, Takaka (72); Cobb River, Stanley Brook (75); Harakeke, Wakefield (76); Koromiko, Mahakipawa, Onamatulu (77); Esk End (95); Hawkswood (96); Annat (100); Amberley (102); Haast (103); Mahitahi (104); Hakatere, Mt. Somers (107); Methven (108); Christchurch (110); Hunter Valley (114); Albury (117); Dalrymple, Timaru (118); Homebush (110); Mangaweka (58); Wellington (68); Blenheim, Grovetown, Nikau Bay (77); Weka Pass (95); Lowry Hills (96); Braemar (105); Dunsandel (109); Christchurch (110); Tophouse (81); Parnassus (96); Timaru (118); Wanaka (123). MM2 'Not Felt' reports were received from the following localities: 51, 61-63, 65, 66, 68-70, 73, 76-78, 83, 84, 90, 95, 96, 100-103, 106, 108, 109, 111, 113, 117, 118, 121, 123-125, 127, 132-136, 140-144, 150-152, 154, 156.
62/167 May	10d 01h 38m Westport (79)
62/168 May	10d 02h 14m Westport (79)
62/169 May	10d 02h 29m Westport (79)
62/170 May	10d 02h 59m Howard (81) Westport (79)
62/174 May	10d 04h 27m Tadmor (75); Six Mile (80); Greymouth (85). 'slight'
62/175 May	10d 04h 31m Bunnythorpe, Mangamahoe (62); Masterton (66) Paraparaumu (65); Eketahuna (66). MM5 Uruti (38); Taringanotu (39); Purangi (48); Ohakune (49); Okoia, Wanganui (57); Hunterville (58); Foxton (61); Palmerston North (62); Dannevirke (63); Levin, Otaki, Waitarere Beach (65); Eketahuna, Masterton (66); Lower Hutt (68); Trentham (69); Martinborough, Ponatahi (70); Kaka (76). MM4 Paemako (30); Otorohanga (31); Dawson's Falls
MM3	

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		(47); Ohakune (49); Waitahinga (56); Wanganui (57); Mangaweka (58); Marahake (60); Motukowhai, Ohakea (61); Fielding, Linton, Tokomaru (62); Levin, Paraparaumu, Waikanae Beach (65); Bideford, Craigie Lea, Masterton (66); Castlepoint, Pongaroa, Tinui (67); Porirua, Wellington (68); Upper Hutt, Te Kopi (69); Wakefield (76); Canvastown (77).
MM2		Mahoenui (38); Ashley Clinton (59); Havelock North (60); Porangahau (64); Castlepoint (67); Edgehill (69); Thorpe (75).
MM1		Gisborne (45)
62/176 May	10d	04h 39m Paemako (30); New Plymouth (47).
	MM3	
	MM2	Masterton (66)
62/178 May	10d	05h 26m Apiti (58)
62/181 May	10d	06h 58m Bainham (72)
	MM3	
	MM2	Howard (81)
62/186 May	10d	10h 18m Farewell Spit (72); Tadmor (75); Kowhiterangi (91).
MM3-4		Collingwood (72)
MM3		Bainham (72); Kaka (76); Ocean Bay (78); Blackball (85).
62/187 May	10d	10h 25m Paekakariki (65); Masterton (66).
62/188 May	10d	11h 01m Howard (81); Kowhiterangi (91).
62/189 May	10d	11h 10m Barrytown, Blackball (85); Ross (91).
	MM3	
	MM2	Farewell Spit (72)
62/190 May	10d	12h 03m Masterton (66); Wellington (68).
	MM4	
	MM3	Wanganui (57)
62/199 May	11d	10h 13m Six Mile (80)
	MM3	
62/208 May	12d 'sharp'	15h 51m Westport (79)
62/210 May	13d	07h 18m Inangahua (79)
62/211 May	13d	08h 56m Inangahua (79)
62/212 May	13d	16h 40m Cromwell (133)
62/214 May	14d	10h 22m Waihua (53)
	MM3	
	MM2	Erepiti (53)
62/215 May	14d 'severe'	12h 22m Westport (79)

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62/216 May	14d	13h 00m 'moderate'	Westport (79)
62/218 May	16d	03h 01m MM3 MM2	Wellington (68) Wellington (68)
62/220 May	16d	10h 28m MM3	Whakamaru (32); Tokaanu (40); Taupo (41).
62/221 May	16d	13h 47m ?	Westport (79)
62/222 May	16d 'severe'	14h 50m MM4 MM3	Westport (79) Greymouth (85); Hokitika (91). Six Mile (80); Greymouth (85); Haupiri, Rotomanu (93).
62/223 May	17d	02h 19m MM6 MM5	Westport (79); Reefton (86). Paturau River (71); Collingwood (72); Stanley Brook, Tadmor (75); Nelson (76); Six Mile (80); St. Arnaud (81); Barrytown, Blackball, Greymouth (85); Hokitika (91); Kaimata (92); Haupiri, Rotomanu (93).
	MM3		Bainham (72); Howard (81); Upper Grey River (87); Hokitika, Kowhiterangi (91); Hammer (88); Lake Whataroa (97); Riccarton (110).
	MM2		Hohonu (92); Motueka (76); Murchison (80); Lake Coleridge (100).
	?		'Not Felt' report was received from Maitai Valley (76).
62/224 May	17d	02h 22m MM4-5 MM4 MM3 MM2 ?	Greymouth (85) Nelson (76); Murchison (80). Tadmor (75); Howard (81). Bainham (72); Ross (91). Motueka (75); Lake Coleridge (100).
62/225 May	17d	02h 28m ?	Westport (79)
62/226 May	17d	02h 37m ?	Westport (79)
62/227 May	17d	02h 51m ?	Westport (79)
62/230 May	17d	16h 41m ?	Westport (79)
62/232 May	17d	12h 47m ?	Westport (79)
62/233 May	18d	12h 55m ?	Westport (79)
62/234 May	18d	19h 50m ?	Takaka (72)
62/235 May	19d	11h 06m ?	Westport (79)

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62/236 May 19d 15h 36m
 ? Westport (79)
 62/237 May 19d 17h 01m
 ? Westport (79)
 62/238 May 19d 17h 53m
 ? Westport (79)
 62/240 May 19d 21h 15m
 MM3 Blackball (85); Ross, Three Mile (91).
 62/241 May 19d 21h 38m
 MM4 Arrowtown (122); Otiake (125).
 MM3 Earnslaw (121)
 62/243 May 20d 17h 01m
 MM3 Wellington (68)
 62/245 May 21d 15h 21m
 ? Westport (79)
 62/246 May 23d 20h 43m
 MM4 Wakarara (59)
 62/248 May 25d 11h 34m
 ? Westport (79)
 62/250 May 28d 18h 20m
 MM3 Bainham, Takaka (72)
 62/251 May 30d 04h 38m
 MM3 Takaka (72)
 62/253 Jun 1d 03h 35m
 MM4-5 Westport (79)
 62/256 Jun 3d 12h 04m
 ? Westport (79)
 62/257 Jun 3d 15h 12m
 ? Westport (79)
 62/259 Jun 8d 09h 42m
 MM4 Westport (79)
 62/260 Jun 8d 11h 46m
 MM4+ Westport (79)
 62/261 Jun 8d 13h 22m
 ? Westport (79)
 62/262 Jun 10d 03h 20m
 MM2 Whatatutu (36); Gisborne (45).
 62/263 Jun 10d 07h 04m
 MM4 Westport (79)
 62/264 Jun 10d 21h 30m
 MM3 Takaka (72)
 62/266 Jun 15d 06h 49m
 MM4 Paturau (71)
 MM2 Waikanae Beach (65)
 62/268 Jun 17d 09h 14m
 MM4 Westport (79)

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MM3 Paturau River (71)
 MM2 Mangles Valley (80)
 62/271 Jun 19d 11h 23m
 MM4 Ross (91)
 MM3 Hokitika, Kowhiterangi, Three Miles (91).
 62/272 Jun 21d 00h 26m
 MM4 Waitatapia (61)
 MM3 Wellington (68)
 62/273 Jun 21d 10h 18m
 MM4 Edgecumbe (37)
 MM3 Thornton (37)
 62/276 Jun 23d 05h 07m
 MM4 Westport (79)
 62/278 Jun 23d 17h 50m
 MM4 Kumara (92)
 MM3 Kowhiterangi, Ross, Waitaha (91); Mt. Somers (107).
 62/279 Jun 23d 18h 05m
 MM3 Ross (91)
 62/280 Jun 23d 18h 28m
 MM3 Inangahua (79)
 62/281 Jun 23d 19h 37m
 MM3 Ross (91)
 62/282 Jun 25d 00h 28m
 ? Lake Okataina (33)
 62/283 Jun 25d 21h 30m
 MM1 Wellington (68)
 62/284 Jun 26d 02h 43m
 MM3 Omerei (49)
 62/287 Jun 29d 11h 45m
 MM2 Waitahinga (56); Okoia (57).
 62/289 Jun 30d 13h 20m
 MM3 Westport (79)
 62/291 Jul 7d 11h 11m
 MM3 Whatatutu (36)
 62/293 Jul 10d 17h 21m
 MM4 Westport (79)
 62/296 Jul 15d 10h 58m
 MM4 Paraparaumu (65); Wellington, York Bay (68); Trentham (69).
 MM3 Paekakariki (65); Khandallah, Lower Hutt (68); Ponatahi (70).
 62/298 Jul 22d 07h 03m
 MM3 Wainui-o-mata (68)
 62/299 Jul 22d 14h 05m
 MM4 Mangles Valley, Murchison (80); Howard, St. Arnaud, Lake Rotoiti (81).
 MM3 Paturau River (71); Bainham (72); Tadmor (75).
 MM2-3 Collingwood (72)

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62/302 Jul	25d MM4	10h 26m Westport (79)
62/303 Jul	26d MM2-3	03h 39m Westport (79)
62/304 Jul	28d MM4 MM3 MM1 'slight'	23h 39m Mt. Aspiring (113); Glenorchy (121); Kingston (132). Haupiri, Rotomanu (93); Mahitahi (104); Hunter Valley (114); Milford (120). Cromwell (133) Momona (144)
62/305 Jul	29d MM3	07h 44m Molesworth (89)
62/306 Jul	29d MM5 MM4-5 MM4 MM3-4 MM3 MM2	18h 19m Rotomanu (93) Farewell Spit (72); Ocean Bay (78); Awakino, Mahoenui (38); Oakura (46); Eltham (47); Purangi (48); Mangamahu (57); Te Kopi (69); Patura River (71); Bainham, Takaka (72); Stephens Is. (73); Dovedale, Tadmor (75); Matai Valley, Nelson (76); Manaroa, Nikau Bay (77); The Brothers (78); Inangahua (79); Six Mile (80); St. Arnaud (81); Hillersden, Leatham (82); Fairhall (83); Blackball (85); Mai Mai, Reefton (86); Molesworth (89); Flax Hills, Waipapa (90); Haupiri (93); Akaroa Lighthouse, Le Bon's Bay (111). Cape Egmont (46); Tarata (47); Okoia (57); Wairere (66); Khandallah (68); Kowhiterangi (91). Ngutunui (31); Punawai, Uruti (38); Inglewood, Stratford (47); Ohakune (50); Hawera (55); Waitahinga, Waitotara (56); Wanganui (57); Levin, Waitarere (65); Ponatahi (70); Lochmaree, Riwaka (75); Mangles Valley (80); Grey-mouth, Lawson's Creek (85); The Branch (87); Kumara (92); Culverden (95); Erewhon (99); Allendale (110). Te Mata (23); Paemako (30); Eastry (66); Waiorongomai (69).
62/309 Aug	4d MM3	05h 47m Takaka (72)
62/310 Aug	4d MM3	10h 03m Earnslaw (121)
62/311 Aug	12d 'slight'	15h 12m Westport (79)
62/313 Aug	7d MM4	16h 14m Te Kopi (69)
62/317 Aug	12d MM3	14h 54m Cambridge (24)
62/318 Aug	18d MM4	06h 41m Westport (79)
62/322 Aug	21d MM4 MM3	20h 48m Kingston (132); Manapouri (139); Mossburn (140); Invercargill (149)

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62/324 Aug	22d MM3	06h 35m Omerei (49); Okoia (57).
62/326 Aug	22d MM4	08h 46m Okoia (57)
62/327 Aug	23d MM4	05h 24m Ross (91); Waitaha Valley (98).
62/329 Aug	24d MM4	08h 21m Erewhon (98)
62/330 Aug	25d MM4	04h 46m Okoia (57)
62/332 Aug	27d MM4	03h 24m Westport (79)
62/335 Aug	30d MM4 MM3	06h 11m Ruatoria (29); Tokomaru Bay (37)
62/338 Sep	1d MM3	21h 02m Earnslaw (121)
62/343 Sep	7d MM3	06h 16m Earnslaw (121)
62/348 Sep	10d MM4	03h 22m Westport (79)
62/350 Sep	10d MM4	09h 54m Erewhon (98)
62/354 Sep	11d 'slight'	17h 36m Murchison (80)
62/355 Sep	12d MM3	01h 04m Okoia (57)
62/357 Sep	13d MM3 ?	15h 33m Wanganui (57); Okoia (57)
62/359 Sep	14d MM3	13h 12m Maketu, Tauranga (26); 'Not Felt' report received from Oneroa (17).
62/360 Sep	14d MM4 MM3	13h 13m Maketu (26); Tauranga (26); 'Not Felt' report received from Oneroa (17).
62/361 Sep	14d MM3 MM2	13h 18m Maketu (26); Oneroa (17); 'Not Felt' report received from Oneroa (17).
62/363 Sep	14d MM3	22h 04m Westport (79)
62/365 Sep	16d MM4 MM3 MM1	07h 54m Tauranga (26); Hoe-o-Tainui (24); Maketu (26); Waihi (21); 'Not Felt' report received from Oneroa (17).

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62/369 Sep	18d ?	16h 27m Tauranga (26)
62/372 Sep	19d MM2	13h 44m Tauranga (26)
62/378 Sep	22d MM3	17h 33m Manapouri (139)
62/381 Sep	24d MM3	11h 29m Paturau River (71); Takaka (72).
62/382 Sep	25d MM2	02h 30m Tolaga Bay (37)
62/384 Sep	26d MM4 MM3	10h 46m Chiltern (18); Kati Kati (25); Maketu, Tauranga (26). Thames (21); Walton (25); Kaharoa, Otumoetai (26).
62/385 Sep	26d MM2 MM2-3	11h 05m Maketu (26) Thames (21); Tauranga (26).
62/386 Sep	26d MM3 MM1	11h 30m Maketu (26) Tauranga (26)
62/387 Sep	26d MM4 MM3 MM1	14h 18m Eketahuna, Wairere (66); Te Kopi (69); Ponatahi (70). Masterton (66) Dannevirke (63)
62/388 Sep	26d MM4	14h 30m Tauranga (26)
62/389 Sep	26d MM4 MM3	16h 33m Maketu, Tauranga (26) Otumoetai (26)
62/391 Sep	27d MM3	14h 40m Erepiti (53)
62/392 Sep	28d MM2	17h 10m Tauranga (26)
62/394 Sep	29d MM6-7 MM6 MM5 MM4 MM2	23h 32m Te Puke (26) Mt. Maunganui, Omokoroa, Tauranga (26). Maketu (26) Waitekauri (21); Walton (25); Kaharoa, Tauranga (26). Edgecumbe (27)
62/397 Sep	30d MM3 MM2	02h 57m Wellington (68) Wellington (68)
62/399 Sep	30d MM2	16h 13m Erepiti (43)
62/401 Oct	3d MM4	01h 04m Hawarden (95)

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62/403 Oct	4d MM2	00h 39m Tauranga (26)
62/408 Oct	6d MM3	07h 30m Tutira (52)
62/416 Oct	13d MM3	08h 28m Kotemaoari (53); Te Uri (63).
62/423 Oct	15d MM4-5 MM4	23h 27m (See isoseismal map) Fox Glacier (97); Mt. Cook (105). Whakapohai River (103); Bruce Bay (104); Lilybank (106). Ross (91) Barrytown (85); Hokitika, Kowhiterangi (91); Haast, Kaka Creek, Lake Paringa (103); Mt. Aspiring (113); Albury (117); Hunter Valley (123); Otiake (126).
	MM3-4 MM3	Blackball (85); Hokitika (91); Jacksons (92); Haupiri (93); Gibbston (132); Manapouri (139). Westport (79); Greymouth (85); Timaru (118); Gore (150). Nelson (76); Fairlie (117); Timaru (118). Christchurch (110); Timaru (118); Oamaru (136); Momona (144). Karamea (74)
	'slight'	'Not Felt' reports received from Hickory Bay (111); Lillburn Valley (139); Lumsden, Mossburn (140); Highcliff (145); Tuatapere (148).
62/427 Oct	18d MM4	10h 25m Westport (79)
62/428 Oct	18d MM4	13h 03m Westport (79)
62/431 Oct	20d MM4	10h 43m Ross (91)
62/438 Oct	26d MM2 MM1	07h 53m Opotiki (35) Motu (36)
62/440 Oct	29d MM3 MM1	09h 23m Coromandel (18) Waihi (21) Tauranga (26)
62/441 Oct	30d ?	13h 33m Tauranga (26)
62/442 Oct	31d MM3	14h 22m Tauranga (26)
62/443 Nov	2d MM4 MM3	17h 31m Havelock North (60) Te Pohue (52); Hastings (60).
62/445 Nov	3d MM1	18h 05m Tolaga Bay (37)
62/446a Nov	7d MM4	16h 10m Kumara (92)
62/447 Nov	8d MM3 ?	07h 48m Lake Okataina (33) Hinehopu (33)

62/449 Nov	11d	02h 17m	
	MM3	Te Rangi (52)	
62/453 Nov	19d	18h 05m	
	MM3	Tutira (52)	
62/455 Nov	22d	14h 00m	
'sharp'		Westport (79)	
62/456 Nov	23d	16h 20m	
	MM3	Tauranga (26)	
62/467 Dec	10d	04h 12m	
	MM4	Ohakune (53); Ashley Clinton (59); Levin (65).	
	MM3	Waitahinga (56); Okoia (57); Mangaweka (58).	
	MM2	Dannevirke (63)	
62/470 Dec	13d	09h 42m	
	MM3	Opotiki (35)	
62/471 Dec	13d	15h 31m	
	MM3	Wanganui (57)	
		'Not Felt' report received from Blenheim (77).	
62/472 Dec	13d	17h 21m	
	MM4	Mason's Flat (95); Cheviot (96); Allandale (110).	
	?	Christchurch (110)	
62/476 Dec	17d	09h 07m	
	MM3	Waitarere Beach (65)	
62/478 Dec	17d	12h 37m	
	MM3	Edgecumbe (27)	
62/485 Dec	23d	15h 34m	
	MM3	Tokomaru Bay (37)	
62/486 Dec	25d	02h 03m	
	MM4	Rotorua (33)	

UNCONFIRMED FELT REPORTS

The following shocks reported to have been felt cannot be confirmed either by an instrumental record or by an independent report.

1962	Jan	20d	06h 50m	Awakino (38)	MM4
		24d	13h 30m	Rotorua (33)	?
		24d	14h 45m	Rotorua (33)	?
		24d	15h 30m	Rotorua (33)	?
		24d	16h 30m	Rotorua (33)	?
	Feb	15d	21h 04m	Waitangirua (36)	MM4
	Mar	11d	06h 56m	Wairoa (53)	MM2
	Apr	18d	05h 50m	Lake Tekapo (106)	MM3
		18d	22h 45m	Tokanui (155)	MM4
	May	10d	10h 30m	Howard (81)	MM3
		13d	01h 32m	Heriot (142)	MM3
	Jun	4d	22h 29m	Taupo (41)	MM4
		14d	13h 34m	Westport (79)	?
		15d	08h 45m	Mangles Valley (80)	MM2
		24d	02h 50m	Kumara (92)	?
		24d	13h 30m	Maketu (26)	MM3
		26/27d?	08h 30m	Coromandel (18)	MM4
		26d	16h 40m	Maketu (26)	MM3
	Jul	25d	09h 48m	Bainham (72)	MM3
		26d	04h 18m	Westport (79)	?
		29d	08h 05m	Westport (79)	'slight'
	Sep	10d	11h 55m	Erewhon (98)	?
		14d	12h 45m	Waihi (21)	MM2
		24d	17h 05m	Tauranga (26)	MM4
	Oct	7d	06h 18m	Kawhia (30)	MM4
		13d	20h 12m	Jackson's Bay (113)	MM3
		18d	05h 55m	Matingarahi (20)	MM2
		18d	04h 06m	Westport (79)	'slight'
		18d	10h 10m	Kopara (93)	MM3
		18d	14h 30m	Ross (91)	MM3
		24d	18h 00m-30m	Westport (79)	'slight'
	Dec	26d	09h 34m	Minaret Station (114)	MM4
		14d	06h 25m	Takaka (72)	MM3
		14d	12h 45m	Maketu (27)	MM3
		24d	09h 15m	Lake Okataina (33)	MM3

FELT EARTHQUAKES REPORTED FROM OUTSIDE NEW ZEALAND

The Observatory sometimes receives reports of felt earthquakes from islands in the south west Pacific and other places beyond the limits of its systematic reporting network. The following reports were received during 1962:

Jan	16d	11h 37m	Raoul Island	MM3-4
Feb	19d	11h 04m	Haapai, Tonga	'slight'
Mar	23d	14h 45m	Norfolk Island	MM5
May	21d	21h 16m	Nukualofa, Tonga	MM2
Jul	28d	01h 05m	Keppel, Tonga	?
Aug	11d	11h 45m	Vunisea, Fiji	?
Oct	1d	20h 25m	Haapai, Tonga	'slight to moderate'
Nov	22d	20h 34m	Raoul Island	MM3
Dec	18d	03h 52m	Raoul Island	MM2
	18d	10h 34m	Raoul Island	MM3

EARTHQUAKES FELT WITHIN STATED LOCALITIES

Localities within which earthquakes have been felt during 1962 are listed in alphabetical order, preceded by their number on the reference map. The figures following the name of the locality are the numbers of the epicentres, followed by the maximum Modified Mercalli 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 actually reporting the shock from the section 'Places Reporting Felt Earthquakes'.

133	Alexandra	212 (3), 304 (1)
111	Akaroa	137 (4), 306 (4)
122	Arrowtown	241 (4)
93	Arthur's Pass	165 (6), 222 (3), 223 (5), 304 (3), 306 (5)
108	Ashburton	165 (3)
16	Auckland	40 (4)
83	Awatere	306 (4)
152	Balclutha	141 (2)
77	Blenheim	137 (3), 165 (3), 175 (3), 306 (4)
104	Bruce Bay	165 (3), 304 (3), 423 (5)
61	Bulls	106 (4), 126 (3), 137 (3), 175 (4), 272 (4)
46	Cape Egmont	40 (4), 306 (4)
67	Castlepoint	175 (3)
50	Chateau	12 (?), 40 (4), 306 (3)
96	Cheviot	137 (4), 138 (?), 165 (4), 472 (4)
110	Christchurch	137 (?), 165 (3), 223 (3), 306 (3), 423 (?), 472 (4)
89	Clarence	305 (3), 306 (4)
18	Coromandel	40 (2), 384 (4), 440 (3)
95	Culverden	137 (4), 165 (3), 306 (3), 401 (4), 472 (4)
63	Dannevirke	12 (3), 40 (3), 106 (4), 128 (3), 137 (2), 144 (2), 175 (4), 387 (1), 416 (3), 467 (2)
126	Dunroon	137 (3), 423 (4)
73	D'Urville Is.	306 (4)
29	East Cape	40 (4), 335 (4)
117	Fairlie	165 (3), 423 (4)
69	Featherston	175 (4), 296 (4), 306 (4), 313 (4), 387 (4)
97	Franz Josef	165 (4), 223 (3), 262 (2), 423 (6)

45	Gisborne	90 (2), 175 (1)
81	Glenhope	137 (4), 165 (4), 170 (2), 181 (2), 188 (3), 223 (5), 224 (3), 299 (4), 306 (4)
121	Glenorchy	241 (3), 304 (4), 310 (3), 338 (3), 343 (3)
150	Gore	423 (3)
85	Greymouth	137 (2), 165 (6-7), 174 (4), 186 (3), 189 (3), 222 (4), 223 (5), 224 (4-5), 240 (3), 306 (4), 423 (4)
103	Haast	165 (4), 423 (5)
24	Hamilton	40 (5), 317 (3), 365 (3)
88	Hanmer	165 (4), 223 (3)
98	Hari Hari	165 (5), 327 (4), 329 (4), 350 (4)
60	Hastings	106 (3), 128 (4), 175 (3), 443 (4)
55	Hawera	12 (3), 40 (4), 306 (3)
91	Hokitika	165 (6), 186 (4), 188 (3), 189 (3), 222 (4), 223 (5), 224 (2), 240 (3), 271 (4), 278 (3), 279 (3), 281 (3), 306 (3-4), 327 (4), 423 (4-5), 431 (4)
49	Invercargill	322 (3)
113	Jackson's Bay	304 (4), 423 (4)
90	Kaikoura	137 (3), 306 (4)
74	Karamea	165 (4), 423 (?)
51	Kaweka	40 (3)
30	Kawhia	40 (5), 175 (3), 176 (3), 306 (2)
32	Kingston	304 (4), 322 (4), 423 (3-4),
32	Kumara	137 (4), 165 (6), 223 (5), 278 (4), 306 (3), 423 (3-4), 446a (4)
125	Kurow	125 (4)
100	Lake Coleridge	165 (4-5), 223 (?), 224 (?)
114	Makarora	165 (3), 304 (3)
57	Maruia	165 (4-5), 223 (3), 306 (3)
70	Martinborough	175 (4), 296 (3), 306 (3), 387 (3)
66	Masterton	175 (5), 176 (2), 187 (3), 190 (4), 306 (3-4), 387 (4)
55	Matamata	40 (4), 384 (4), 394 (4)
20	Milford	304 (3)
38	Mokau	40 (7), 175 (4), 306 (4)
39	Monowai	322 (4), 378 (3), 423 (3-4)

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140	Mossburn	322 (3)
36	Motu	57 (3), 84 (3), 262 (3), 291 (3), 438 (1)
75	Motueka	137 (4), 165 (4), 174 (4), 175 (2), 186 (4), 223 (5), 225 (3), 299 (3), 306 (4)
105	Mt. Cook	165 (2), 423 (6)
107	Mt. Somers	165 (3), 278 (3)
71	Mt. Stevens	165 (4), 223 (5), 266 (4), 268 (3), 299 (3), 306 (4), 381 (3)
80	Murchison	77 (4), 155 (3), 165 (6), 174 (4), 199 (3), 222 (4), 223 (5), 224 (4), 268 (2), 299 (4), 306 (4), 354 (?)
34	Murupara	57 (3), 140 (4)
52	Napier	408 (3), 443 (3), 449 (3), 453 (3)
76	Nelson	137 (?), 165 (4), 175 (4), 186 (3), 223 (5), 224 (4), 306 (4), 423 (2)
47	New Plymouth	12 (2-3), 40 (5), 175 (3), 176 (3), 306 (4)
136	Oamaru	423 (?)
49	Ohakune	12 (4), 40 (5), 175 (4), 284 (3), 324 (3), 567 (4)
35	Opotiki	40 (3), 438 (2), 470 (3)
65	Otaki	12 (?), 40 (4), 154 (3), 156 (4), 175 (4-5), 187 (3), 266 (2), 296 (4), 306 (3), 467 (4), 476 (3)
144	Outram	304 (?), 423 (?)
62	Palmerston North	12 (2), 40 (4), 106 (2), 175 (5)
78	Picton	186 (3), 306 (4-5)
64	Porangahau	175 (2)
19	Pukekohe	40 (4)
23	Raglan	40 (4), 306 (2)
109	Rakaia	165 (2)
102	Rangiora	165 (3)
86	Reefton	165 (6), 223 (6), 306 (4)
33	Rotorua	32 (3), 33 (3), 43 (?), 44 (?), 46 (?), 47 (4), 48 (?), 282 (?), 447 (3), 486 (4)
59	Ruahine	175 (2), 246 (4), 467 (4)
156	Tahakopa	141 (4)
58	Taihape	12 (4), 40 (4), 106 (4), 165 (2), 175 (4), 178 (3), 467 (3)
72	Takaka	165 (4), 181 (3), 186 (4), 189 (2), 223 (5).

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39	Taumarunui	224 (2), 234 (?), 250 (3), 251 (3), 264 (3), 299 (3), 306 (4-5), 309 (3), 381 (3)
41	Taupo	40 (4), 175 (4) 220 (3)
26	Tauranga	40 (3), 359 (3), 360 (4), 361 (3), 365 (4), 369 (?), 372 (2), 384 (4), 385 (3), 386 (3), 388 (4), 389 (4), 392 (2), 394 (6-7), 403 (2), 440 (?), 441 (?), 442 (3), 456 (3)
28	Te Kaha	6 (3)
31	Te Kuiti	40 (5), 175 (3), 306 (3)
106	Tekapo	423 (5)
21	Thames	40 (3), 365 (1), 384 (3), 385 (2-3), 394 (4), 440 (1)
118	Timaru	137 (3), 165 (4), 423 (3)
40	Tokaunu	40 (5), 220 (3)
32	Tokoroa	40 (4), 220 (3)
37	Tolaga Bay	89 (3), 273 (4), 382 (2), 445 (1), 485 (3)
13	Tuai	399 (2)
17	Waiheke	40 (4)
82	Wairau	137 (4), 306 (4)
53	Wairoa	90 (4), 214 (3), 391 (3), 416 (3)
123	Wanaka	165 (1), 423 (4)
57	Wanganui	40 (4), 106 (3), 175 (4), 190 (3), 287 (2), 306 (4), 324 (3), 326 (4), 330 (4), 355 (3), 357 (3), 467 (3), 471 (3)
56	Waverley	175 (3), 287 (2), 306 (3), 467 (3)
68	Wellington	30 (1), 103 (2), 125 (3), 128 (3), 134 (3), 137 (3), 139 (3-4), 144 (3), 154 (4), 156 (3), 165 (3), 175 (4), 190 (4), 218 (3), 243 (3), 272 (3), 283 (1), 296 (4), 298 (3), 306 (3-4), 397 (3)
79	Westport	63 (3), 65 (4), 127 (4), 137 (3), 158 (4), 165 (7), 167 (?), 168 (?), 169 (?), 170 (?), 174 (?), 208 (?), 210 (2), 211 (2), 215 (?), 216 (?), 221 (?), 222 (?), 223 (6), 225 (?), 226 (?), 227 (?), 230 (?), 232 (?), 233 (?), 235 (?), 236 (?), 237 (?), 238 (?), 240 (3), 245 (?), 248 (?), 253 (4-5), 256 (?), 257 (?), 259 (4), 260 (4), 261 (?), 263 (4), 268 (4), 276 (4), 280 (3), 289 (3), 293 (4), 302 (4), 303 (2-3), 306 (4), 311 (?), 318 (4), 332 (4), 348 (4), 363 (3), 423 (3), 427 (4), 428 (4), 455 (?)
44	Whakapunaiki	40 (3)
27	Whakatane	394 (2), 478 (3)

- 48 Whangamomona 40 (4), 175 (4), 306 (4)
 99 Whitcombe Pass 306 (3)

PUBLICATIONS

During 1962, the following papers by members of the Seismological Observatory staff were published:

- S-112 A.A. THOMSON and F.F. EVISON: Thickness of the Earth's Crust in New Zealand.
N.Z. J. Geol. Geophys. 5: 29-45.
 Study of dispersive earthquake waves shows that over much of New Zealand the crust has a typical continental thickness of 30-40 km, in accordance with the evidence of earthquake body waves and of gravity.
- S-113 R.D. ADAMS: Thickness of the Earth's Crust beneath the Campbell Plateau.
N.Z. J. Geol. Geophys. 5: 74-85.
 The method of surface-wave dispersion has been used to find the thickness of the Earth's crust beneath the submerged region to the south-east of New Zealand known as the Campbell Plateau. By the use of records from eight earthquakes, an average value of about 20 km was found. This is intermediate between the values usually found for oceanic and continental regions.
- S-114 F.F. EVISON: Rock Magnetism and Low-Angle Faulting.
Nature, Vol. 194, No. 4829, pp. 644-646.
- S-115 M.J. RANDALL: Generation of Horizontally Polarized Shear Waves by Underground Explosions.
J. Geophys. Research, Vol. 67, No. 12.
- S-116 T. HATHERTON and F.F. EVISON: A Special Mechanism for some Antarctic Earthquakes.
N.Z. J. Geol. Geophys. 5: 864-73.
 Frequent small earthquakes recorded at Scott Base constitute the main seismic activity so far discovered within Antarctica. Prominent in many Scott Base seismograms is a sinusoidal wave of period 1½-2 sec with an onset velocity of about 650 m/sec; this has been interpreted as an air-coupled wave associated with flexural waves in the

Ross Ice Shelf. Other unusual features of the earthquakes also suggest that they are caused by fractures in the ice near the shelf edge, leading to the calving of icebergs.

R.D. ADAMS and D.A. CHRISTOFFEL: Total Magnetic Field Surveys between New Zealand and the Ross Sea.

J. Geophys. Research, Vol. 67, No. 2.

During the summers of 1958-1959 and 1959-1960, total magnetic field surveys were made with ship-towed nuclear spin magnetometers between New Zealand and the Ross Sea. The total field contours are given for the region between New Zealand and 70°S and for the Ross Sea area. Magnetic anomalies in the different bathymetric regions are discussed, and some possible interpretations given. In general, smooth magnetic profiles are found in the shallow water to the north of the deep ocean basin, and in the basin itself a typical pattern of deep-water magnetic anomalies is found. A ridge, over which both bathymetric and magnetic profiles are rough, is crossed before entering the Ross Sea. A smooth magnetic profile in the Ross Sea shows the absence of any disturbing igneous rock close to the surface.

- M38 New Zealand Seismological Report, 1957.

LIST OF MAPS
(in pocket inside back cover)

1. Epicentres of Normal and Shallow Focus Earthquakes in 1962
2. Epicentres of Deep Focus Earthquakes in 1962
3. Isoseismals for the Earthquakes of 1962 Jan 23 and 1962 Oct 15
4. Isoseismals for the Earthquake of 1962 May 10
5. Isoseismals for the Earthquake of 1962 Jul 29

