

COMMONWEALTH OF AUSTRALIA
DEPARTMENT OF NATIONAL DEVELOPMENT
BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

203 Collins Street,
MELBOURNE. VIC.

SEISMOLOGICAL BULLETIN

MELBOURNE



Latitude: $37^{\circ} 49' 53''$ S. Longitude: $144^{\circ} 58' 24''$ E. Height: 28m.

Foundation: Silurian Sandstone and Mudstone.

Instruments: Benioff Variable Reluctance Seismometers, 3 components,
Seismometer periods: 1 sec.
Short period recorder
Galvanometer period: 0.2 sec. nominal
Long period recorder
Galvanometer period: 14 sec.

Milne Shaw Seismograph, E-W component,
Period: 12 sec.
Damping Coefficient: 0.7
Magnification: 250

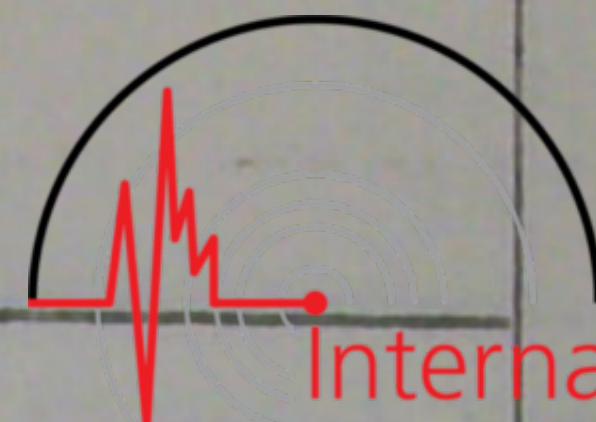
Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ km	Remarks
				A _N	A _E	A _Z		
MAY		h. m. s.	s.					
3	eP Z	03 47 14						USCGS: 60.0S 32.9W h = 20km
	iPcP Z	47 18						
	ipP Z	47 23						
	eX NEZ	04 21.0						
5	eP EZ	23 12 23						USCGS: 31.6S 176.7W h = 41km
	iX EZ	12 32						
	eX E	21 15						
6	eP Z	03 23 15						USCGS: 54.3S 136.6W h = 23km
6	eP Z	03 43(18)						USCGS: 54.2S 136.5W h = 25km
6	iP N Z	19 12 34		-		-		USCGS: 60.0S 32.8W h = 25km
	iPcP N Z	12 39						
	iX Z	12 50						
	iX Z	12 55						
	eX Z	13 02						
	iX Z	13 27						
	ePP Z	15 43						
	eX Z	16 35						
	iX E	17 24						
	eSKS N	22 51						
	eS E	22 53						
7	eP Z	17 52 15						USCGS: 45.3N 146.7E h = 25km
	ipP Z	52 25						
	iX Z	52 28						
	eScS N	18 02 41						
	eX N	03 05						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Remarks
				A _N	A _E	A _Z	
MAY	(cont'd)	h. m. s.	s.				km
10	iP	Z	00 31 58			+	USCGS: 41.8S 171.6E h = 54km
	iX	NEZ	32 04				
	iX	EZ	32 08				
	ipP	EZ	32 13				
	iPP	Z	32 24				
	iPPP	Z	32 36				
	iX	Z	33 07				
	iS	E	35 53				
	ePcP	EZ	36 04				
	iSS	E	36 30				
	eT	N Z	49.5				
	T max.	NEZ	51.0				
10	iP	Z	04 36 14			+	
	iX	Z	36 18				
	eL	NE	42.5				
10	iP	NEZ	17 46 55				
11	eX	E	05 09 40				USCGS: 6.4S 143.6E h = 37km
	eX	NE	10 06				
	eX	Z	11 59				
11	eP	Z	12 12 25				USCGS: 14.3S 170.4E h = 623km
11	eP	Z	13 41 53				USCGS: 28.5S 177.6W h = 115km
	eX	Z	42 19				
11	ePP	Z	14 32 17				USCGS: 17.0N 99.7W h = 25km
	eSKS	E	37 43				
	ePS	E	42 08				
	ePPS	E	43 28				
	eSS	E	49 02				
	eSSS	E	53 07				
12	iP	EZ	20 42 14				USCGS: 17.7S 178.2W h = 600km
12	iP	NEZ	22 10 11	+	+	-	USCGS: 18.0S 178.0W h = 603km
	eX	Z	10 19				
13	eP	NEZ	10 53 38				USCGS: 3.2S 129.0E h = 41km
14	iP	NEZ	10 40 37			+	USCGS: 9.0S 118.7E h = 30km
	eX	Z	41 08				
	iPP	Z	42 57				
15	eP	Z	05 30 29				USCGS: 7.3S 128.3E h = 34km
	iX	NEZ	30 30				
	iX	E	34 41				
	eS	NE	35(56)				
15	eP	NEZ	06 49 42				USCGS: 7.2S 128.3E h = 52km
	iX	NEZ	49 48				
	iX	EZ	50 30				
	eX	Z	51 38				
	eS	E	55 06				
5	iP	NEZ	10 02 01				USCGS: 7.2S 128.2E h = 30km
	ipP	Z	02 11				
5	iP	NEZ	17 00 46				USCGS: 7.4S 128.0E h = 34km
	iX	NEZ	01 47				
	eX	Z	02 37				
	eX	N Z	07 34				
	iX	E	07 50				



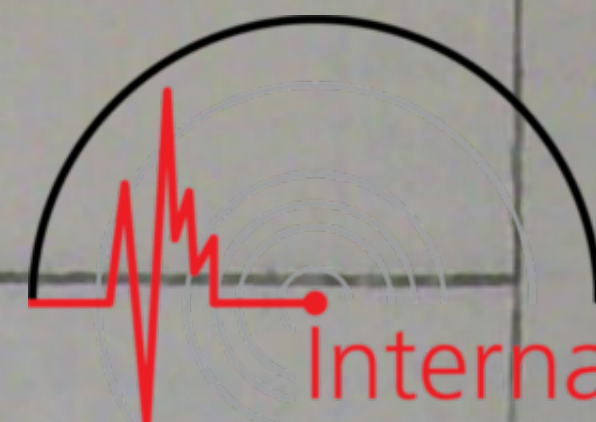
International
Seismological
Centre

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
MAY (cont'd)		h. m. s.	s.				km	
15	e(P)	Z	18 04 07					
15	iP	Z	21 37 45					USCGS: 7.2S 128.1E h = 38km
16	iP	Z	08 26 08					USCGS: 0.9S 127.0E h = 34km
16	iP	NEZ	14 42 16					USCGS: 7.3S 128.1E h = 34km
	iX	EZ	42 19					
	iX	EZ	43 19					
	eX	Z	49 36					
16	eP	Z	17 39 27					USCGS: 13.4S 167.3E h = 35km
16	iP	NEZ	21 43 09 $\frac{1}{2}$	+	+			Regional
	iX	EZ	44 13					USCGS: 35.6S 137.7E h = 25km
	iS	NEZ	44 18					
17	eP	EZ	02 24 37					Heavy microseisms.
	iX	EZ	24 42					USCGS: 41.9S 171.5E h = 41km
	iX	EZ	24 45					
	iX	Z	25 20					
	iX	EZ	25 42					
	eX	E	28 44					
	T max.	NEZ	43.5					
19	iPP	Z	15 18 34					USCGS: 17.2N 99.5W h = 20km
	ePS	E	28 30					
	eSSP	E	35 37					
	eSSS	E	39 48					
	eL	EZ	54.0					
21	eP	N Z	12 15 38					USCGS: 37.3N 96.0E h = 25km
	iPcP	EZ	15 43					
	ipP	Z	15 49					
	iX	Z	16 03					
	eS	E	26 21					
	eX	E	26 33					
21	eP	Z	13 28(29)					USCGS: 37.0N 95.7E h = 25km
21	iP	EZ	21 22 11		-			USCGS: 20.0S 177.5W h = 379km
	iX	Z	22 24					
21	iP	NEZ	21 23 38		-			
	i(pP)	NEZ	23 50					
22	eP	Z	04 49 27					USCGS: 55.5S 138.3W h = 42km
22	iP	NEZ	08 12 54					USCGS: 12.3S 166.6E 151km
	ipP	Z	13 24					
	iS	N	17 56					
22	ep	N Z	22 10 02					USCGS: 5.5S 152.0E h = 100km
	iPP	Z	11 26					
23	eP	Z	20 52 49					USCGS: 48.2S 119.4E h = 25km
23	eP	NEZ	21 08 57					USCGS: 49.1S 121.3E h = 25km
25	iP	Z	04 27 00					USCGS: 174.3W 20.7S h = 281km
	iX	Z	27 10					
25	eP	Z	05 32(55)					
	iX	EZ	32 59					
25	i(P)	EZ	23 57 14					
26	eP	N, Z	19 54(53)					USCGS: 6.7N 94.6E h = 60km



International
Seismological
Centre

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
MAY	(cont'd)	h. m. s.	s.				km	
27	eP Z	05 37 51						USCGS: 3.2S 129.5E h = 82km
27	iP NEZ	11 34 54 $\frac{1}{4}$						Regional.
	iS NEZ	35 10						
27	iP Z	11 49 31 $\frac{1}{4}$						Regional.
	iS NEZ	49 46 $\frac{3}{4}$						
28	eL E	03 26.0						
30	iP EZ	17 04 12				-		USCGS: 18.9S 177.9W h = 480km.
31	iP EZ	03 24 26						USCGS: 30.1S 177.1W h = 15km
	iX EZ	24 38						
31	iP N Z	06 38 05						USCGS: 22.1N 142.6E h = 257km
	iPcP N Z	38 48						
	ipP Z	39 07						
	iPP Z	40 23						
	ipPP Z	41 06						
	iS NE	45 55						
	i(sS) NE	47 32						
31	iP EZ	08 43 49				-		USCGS: 30.8S 177.3W h = 42km
	iX EZ	43 50						
JUNE								
2	eP Z	05 42 22						USCGS: 3.5S 145.3E h = 42km
5	iP NEZ	16 50 19						USCGS: 7.1S 129.2E h = 124km
	iS N	55 45						
	iX Z	17 01 43						
8	iP NEZ	01 38 36				-		USCGS: 18.1S 178.4W h = 603km
9	eiP NEZ	06 11 26						USCGS: 21.1S 178.3E h = 339km
9	iP Z	07 49 06						USCGS: 9.0N 126.6E h = 65km
11	iP NEZ	04 41 38						USCGS: 19.6S 177.7W h = 370km
14	eL E	08 36 ..						
15	iP NEZ	12 02 25				-		USCGS: 13.3S 167.0E h = 211km
16	iP NEZ	06 35 17				-		USCGS: 0.2S 122.8E h = 177km
18	iP N Z	23 49 09						USCGS: 4.8S 151.8E h = 47km
	iX Z	49 14						
	iX Z	50 50						
	iS N	54 25						
19	iP Z	15 53 02						USCGS: 17.0S 172.5W h = 29km
19	iP Z	16 45 50						USCGS: 20.9S 177.8W h = 405km
	iX N	51 50						
20	eX Z	06 24 07						USCGS: 6.9S 126.6E h = 272km
	ePP Z	24 24						
21	eP Z	22 59 27						USCGS: 7.4S 130.1E h = 52km



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Remarks
				A _N	A _E	A _Z	
JUNE	(cont'd)	h. m. s.	s.				km
22	iP(*) iS(g) iS(*)	NEZ N Z NEZ	06 12 26 12 41 12 41 $\frac{1}{2}$				Regional.
22	iP	N Z	12 00 07				USCGS: 32.2N 142.4E h = 25km
23	iP iX eX	NEZ N Z Z	09 55 18 55 22 56 04				USCGS: 25.7N 128.5E h = 36km
23	eP ePS	Z E	10 08 37 17 21				USCGS: 19.1N 121.4E h = 40km
25	iP	N Z	01 37 47				USCGS: 20.8S 179.2W h = 645km
25	iP i(pP) eX iX iX iX eS eScS	Z N Z Z E N Z N N	11 21 07 21 22 21 57 22 54 24 02 24 08 29 50 30 58				USCGS: 24.3N 122.6E h = 33km
27	eP	N Z	03 36(25)				USCGS: 6.1S 148.8E h = 55km
28	iP	Z	04 39 28				USCGS: 20.0N 155.6W h = 25km
28	i(P) eX	Z NEZ	16 10 11 10 45				
28	iP iX iPcP	NEZ EZ N Z	18 58 15 58 40 19 00 10				USCGS: 0.2S 124.3E h = 58km
28	iP	EZ	20 54 46				USCGS: 17.6S 175.2W h = 244km
29	iP iPcP	NEZ Z	13 55 55 58 31				USCGS: 7.9S 127.3E h = 80km
30	eP	Z	19 39 52				USCGS: 16.5N 122.0E h = 40km
NO L.P. RECORDS FROM 25/6/62.							
JULY							
2	eP iX iX iX eS	NEZ N Z Z Z E	08 39 10 39 11 39 34 39 53 44(20)				USCGS: 10.3S 165.9E h = 50km
3	eP	Z	18 31 46				USCGS: 54.6S 132.3W h = 25km
7	eP	N Z	06 26 12				USCGS: 51.3N 178.6E h = 60km
7	iP	N Z	11 54 03				USCGS: 7.3S 128.3E h = 30km
8	eP	Z	12 08 32				USCGS: 22S 179.8W h = 600km



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
JULY	(cont'd)	h. m. s.	s.				km	
9	eP N Z	10 03 43						USCGS: 56.0S 158.1E h = 25km
10	eP Z	05 18 18						USCGS: 20.8S 179W h = 584km
11	eP N Z	12 49 54						USCGS: 11.9N 122.1E h = 25km
12	eP N Z	09 39 52						USCGS: 17.9S 178.7W h = 545km
13	eP N Z	03 41 01						USCGS: 10.4N 122.6E h = 66km
14	eP Z	20 50 44						USCGS: 50.1N 155.7E h = 171km
16	eP N Z	02 08 23						USCGS: 52.1S 138.9E h = 14km
	eX N Z	08 32						
	iX N Z	08 35						
	e E	11(20)						
16	eP N Z	09 32 02						USCGS: 13.0S 167.2E h = 180km
	eX Z	32 06						
17	eP EZ	05 45(15)						USCGS: 43.0S 74.9W h = 26km
18	iP Z	06 00 45						USCGS: 9.6S 119.8E h = 68km
18	eP Z	10 19 31						USCGS: 15.3N 148.1E h = 16km
22	iP N Z	13 43 09						USCGS: 8.4S 159e h = 107km
26	ePP EZ	08 35 54						USCGS: 7.5N 82.7W h = 21km
	e(PS) E	08 45(45)						
	e(SSP) E	08 53(45)						
	e(SSS) E	08 58(00)						
	eL E	09(13)						

(J.M. RAYNER)
DIRECTOR