

NO FIRST HALF YEAR

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11 JUN 1959

UNIVERSITY OF ADELAIDE SEISMOLOGICAL STATION
ADELAIDE (MT. BONYTHON)

Latitude: 34° 58.1'S Longitude: 138° 42.9E

Height above sea level: 650 metres (approximately)

Geology: Sandstone

Equipment: Benioff variable reluctance seismometers with three component long and short period paper recorders.
T_g = 75 sec. and T_g = 0.2 sec. respectively

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			Δ Km.	Remarks
				A _n	A _e	A _z		
July 2	iP	NEZ 04 55 26					4750	USCGS: 18S, 177W, Fiji Islands. h about 350 Km.
	iS	N 05 01 26						
2	iP	Z 11 22 36						
2	iP	Z 22 51 30						
3	eP	NEZ 05 56 10					7250	USCGS: 18S, 66E, Mascarene Is. Region.
3	iP	NEZ 07 46 11						
4	iP	NEZ 18 42 04				-	4750	USCGS: 6N, 125E, Near south coast of Mindanao, P.I.
	iPcP	Z 44 01						
	iS	E 48 26						
4	eP	NEZ 22 22 50						
5	iP	NEZ 11 57 43				+		
5	iP	NEZ 13 59 18				-		
6	eP	NEZ 08 51 58						
6	iP	NEZ 13 19 32						
6	iP	NEZ 18 46 53						
6	eP	Z 19 59 56						
6	eP	Z 23 44 54						
7	eP	NEZ 17 09 14						
	e	NEZ 11 11						
8	eP	Z 22 59 58					7950	USCGS: 43S, 41½E, Indian Ocean north-east of Prince Edward Is.
9	iP	NEZ 14 01 18				+	4450	USCGS: 20½S, 178½W, Fiji Is. h about 600 Km.
9	eP	NEZ 21 44 20						
10	ePKP	NEZ 06 34 48					13000	USCGS: 58½N, 136W, South Eastern Alaska.
	ePP	Z 36 02						
	ePKS	NE 38 20						
	eSKKS	NE 42 48						
	eSKKKS	NE 43 06						
	ePS	NE 45 41						
	ePFS	NE 46 42						
	eSSS	NE 56 16						
	eL	NEZ 07 02 54						
11	iP	NEZ 00 28 20						
12	iP	NEZ 03 39 18					5950	USCGS: 12N, 165E, Marshall Is.
13	iP	NEZ 12 10 14					3600	USCGS: 10S, 161½E, Solomon Is. h about 100 Km.
14	eP	NEZ 10 15 15						
16	eP	Z 17 01 05					3750	USCGS: 12S, 166½E, Santa Cruz Is.
18	iP	Z 21 48 24					6900	USCGS: 25½N, 124E, Ryuku Is. Region.
19	eP	NEZ 16 38 02						? Local.

Phase	Time (G.M.T.)	Per	Amplitude			Δ Km.	Remarks
			A _n	A _e	A _z		
	17 46 06						
	NEZ 18 23 47				+	4000	USCGS: 0, 129 1/2 E. Spice Is.
	NEZ 25 04						
iS	NEZ 29 13						
i	NEZ 31 30						
eL	NEZ 33 06						
9 iP	NEZ 19 44 26				+		
19 iP	NEZ 20 01 25						
19 iP	NEZ 22 21 00						
20 iP	NEZ 19 33 39						
21 iP	NEZ 18 39 35				-	3700	USCGS: 14S, 167 1/2 E, New Hebrides.
23 iP	NEZ 10 38 10.5					7350	USCGS: 31N, 142E, South of Honshu Japan.
25 eP	NEZ 17 57 58						
26 iPKP	NEZ 17 55 06					13850	USCGS: 13 1/2 S, 69W, Peru Bolivia Border. h about 650 Km.
iPP	NEZ 57 00						
i	Z 59 08						
iPKS	NE 59 48						
iSKS	NE 18 01 12						
i	NE 02 58						
i	Z 04 50						
e	NE 07 00						
e	Z 08 00						
e	NE 16 20						
27 eP	NEZ 00 29 21					4500	USCGS: 20 1/2 S, 78 1/2 W, Fiji Is. Region. h about 600 Km.
27 eP	NEZ 17 29 34						
28 iP	NEZ 01 29 17						
28 iP	NEZ 17 31 43				-		
28 iP	NEZ 21 30 12						
30 iP	NEZ 04 51 25					3600	USCGS: 2 1/2 S, 140E, New Guinea.
iS	NE 56 36						
iPcS	NE 58 00						
i	Z 58 28						
i	NEZ 05 02 12						

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UNIVERSITY OF ADELAIDE SEISMOLOGICAL STATION
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 Latitude: $34^{\circ} 58.1' S$

 Longitude: $138^{\circ} 42.9' E$

Height above sea level: 650 metres (approximately)

Foundation: Sandstone

Instruments: Benioff variable reluctance seismometers with three component long and short period paper recorders.

 $T_g = 75 \text{ sec.}$ and $T_g = 0.2 \text{ sec.}$ respectively

Date 1958	Phase		Time (G.M.T.)			Remarks
			h	m	s	
Sept. 1	iP	NEZ	10	34	31	Local
	i	NEZ		35	28	
1	iP	NZ	14	59	00	USCGS 38N, $134\frac{1}{2}E$ $\Delta = 73^{\circ}$ (Sea of Japan)
	iP	Z	15	40	21	
2	iP	NEZ	02	34	27	USCGS $10\frac{1}{2}S$, $164\frac{1}{2}E$, $\Delta = 34^{\circ}$ Santa Cruz Islands region
	iP	Z	03	02	58	
2	iP	NEZ	14	31	50	USCGS $5\frac{1}{2}S$, $145\frac{1}{2}E$, $\Delta = 30\frac{1}{2}^{\circ}$ Deep
	i	Z	14	32	13	
	i	Z	14	32	30	
	i(ScS)	NZ	14	42	40	
4	i	Z	16	48	16	USCGS $18\frac{1}{2}S$, $178W$, $\Delta = 41\frac{1}{2}^{\circ}$ (Fiji Islands) h about 500 km.
4	iL	EZ	22	40		
4	i	EZ	23	17	30	
5	iP	NEZ	13	10	16	USCGS 5S, 102E, $\Delta = 45^{\circ}$ (Near Coast of Sumatra)
	i	Z	13	10	30	
	i	NEZ	13	10	32	
5	iP	Z	13	16	25	(as above)
		Z		16	35	
		Z		16	38	
5	iP	NZ	14	22	39	USCGS 5S, $101\frac{1}{2}E$, $\Delta = 45\frac{1}{2}^{\circ}$ (Near Coast of Sumatra)
6	iP	NEZ	10	07	02	Local
		NEZ		07	37	
6	iP	Z	22	06	14	
7	iP	Z	07	28	03	Local
8	iP	Z	05	38	34	USCGS $53\frac{1}{2}N$, 159E, $\Delta = 90\frac{1}{2}^{\circ}$
		Z		38	42	
	iP	NEZ	13	41	37	

Date 1958	Phase	Time (G.M.T.)	Remarks
Sept. ✓ 8	iP NEZ	14 04 44	USCGS H = 13 58 19 (Santa Cruz Is. region)
	i N	04 47	
	i NZ	05 00	
	i Z	06 22	
	i(ScP) NEZ	10 26	
✓ 8	iP NEZ	15 04 14	USCGS $33\frac{1}{2}^{\circ}\text{N}$, $131\frac{1}{2}^{\circ}\text{E}$, $\Delta = 68\frac{1}{2}^{\circ}$ (Japan) h about 60 km
	i NE	04 18	
	i Z	04 36	
✓ 11	iP NEZ	18 09 53	USCGS $7\frac{1}{2}^{\circ}\text{N}$, $126\frac{1}{2}^{\circ}\text{E}$ $\Delta = 44^{\circ}$ (Near east coast of Mindanao P.I.)
✓ 12	iP NEZ	13 53 41	USCGS 6S, 106E $\Delta = 42^{\circ}$ (Java)
✓ 12	iP NEZ	22 14 09	USCGS $6\frac{1}{2}^{\circ}\text{S}$, $129\frac{1}{2}^{\circ}\text{E}$ $\Delta = 28\frac{1}{2}^{\circ}$ (Banda Sea)
	i NEZ	14 39	
	i NEZ	22 19 56	
✓ 13	iP NEZ	03 39 49	
	i NZ	39 52	
✓ 13	iP NZ	11 03 02	
✓ 14	iP NEZ	02 33 14	
	NZ	33 25	
✓ 14	iP NZ	14 34 53	USCGS $56\frac{1}{2}^{\circ}\text{N}$, $120\frac{1}{2}^{\circ}\text{E}$ $\Delta = 93^{\circ}$ (Siberia)
✓ 14	iP Z	18 04 08	
✓ 14	iP Z	19 53 04	USCGS 31N, 133E $\Delta = 66^{\circ}$ (Japan)
	i Z	19 53 16	
✓ 14	iP Z	21 43 40	USCGS $8\frac{1}{2}^{\circ}\text{S}$, 67E $\Delta = 70^{\circ}$ (Chagos Archipelago region)
	i Z	43 47	
✓ 15	e Z	05 17 15	
	i Z	18 05	
	e NEZ	26 30	
✓ 15	iP NEZ	16 55 05	USCGS 33S, 180 $\Delta = 34^{\circ}$ (Kermadic Islands Region)
	iPcP Z	57 35	
	iScP Z	17 01 16	
✓ 15	iP Z	18 17 30	
✓ 15	iP NEZ	19 52 38	USCGS $2\frac{1}{2}^{\circ}\text{N}$, $120\frac{1}{2}^{\circ}\text{E}$ $\Delta = 41^{\circ}$ (Celebes Sea) h about 600 km
	i(pP) Z	19 54 21	
	iScP Z	19 57 10	
	iS NE	19 58 01	
	i E	20 00 06	
	i N	20 00 20	
	iScS NE	20 01 24	
✓ 16	iP Z	07 31 05	USCGS $11\frac{1}{2}^{\circ}\text{N}$, 123E $\Delta = 49^{\circ}$ (Negros, Phillipine Is.)
	i Z	31 16	
✓ 18	iP Z	03 48 27	USCGS H = 03 35 32 (Sandwich Is.)

Date 1958	Phase	Time (G.M.T.)	Remarks
Sept. 18	iP NEZ	06 57 42	USCGS 2 $\frac{1}{2}$ S, 141E, $\Delta = 33^{\circ}$ (North New Guinea)
18	e(PKP) Z	15 01 26	USCGS $\frac{1}{2}$ N, 30W, $\Delta = 144^{\circ}$ (Atlantic Ocean)
18	i(P) Z	15 35 42	
19	iP NEZ	08 20 05	USCGS 2 $\frac{1}{2}$ N, 127E, $\Delta = 39^{\circ}$
	i Z	08 20 43	(Molucca Passage)
20	iP NEZ	17 15 55	USCGS 6 $\frac{1}{2}$ S, 154 $\frac{1}{2}$ E, $\Delta = 32^{\circ}$
	i NZ	16 54	(Solomon Islands)
	iPcP Z	18 45	
	iS NEZ	21 02	
	i E	24 09	
	i E	24 38	
	i E	25 06	
	eL NE	26.0	
	eL Z	27.0	
21	iP NEZ	07 38 56	
	i Z	39 10	
21	iP EZ	08 34 22	
21	iP EZ	09 49 22	
21	iP EZ	13 37 23	USCGS 15S, 174W, $\Delta = 46\frac{1}{2}^{\circ}$ (Samoa Islands Region) h about 150 km
22	iP NEZ	07 07 02	
	i NEZ	12 23	
22	iP Z	08 47 05	
	i Z	48 30	
	e Z	49 23	
22	iP NEZ	19 12 46	USCGS 33 $\frac{1}{2}$ S, 177 $\frac{1}{2}$ W, $\Delta = 36^{\circ}$
	i E	13 05	(Kermadic Islands region)
	iPcP Z	15 13	
	i Z	15 27	
	i Z	15 36	
	i Z	15 41	
	iS NEZ	18 19	
	i Z	18 39	
	i Z	19 14	
	eL NZ	23.0	
22	iP EZ	21 41 36	
	i Z	42 08	
23	iP Z	16 27 09	
23	iP Z	17 16 36	
24	iP NZ	07 30 59	
24	i(P) Z	07 40 58	
25	ePKP NEZ	07 40 02	USCGS 9 $^{\circ}$ N, 39 $\frac{1}{2}$ W, $\Delta = 154^{\circ}$
	eL NZ	08 36.0	(Atlantic Ocean)

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$T_g = 75$ sec. and $T_g = 0.2$ sec. respectively

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			Δ Km.	Remarks
				A_n	A_e	A_z		
Oct. 1	iP NEZ	05 30 46					6350	USCGS 19 $\frac{1}{2}$ N, 121E Off north coast of Luzon P.I.
1	iP EZ	06 38 20 38 38					3900	USCGS 11S, 166 $\frac{1}{2}$ E Santa Cruz Islands
1	iP NEZ	09 24 30						
1	iP NEZ	09 34 48				+	2550	USCGS 57S, 147E South West of Macquarie Island
	i Z	34 50						
	i NZ	34 53						
	iS NE	39 00						
	Lq NE	39 07						
	Lr Z	40 00						
1	iP NEZ	12 07 32				+	4500	USCGS 3N, 125E Celebes Sea
	iPP NZ	09 3.5						
	iPPP NZ	09 43						
	iS NEZ	13 23						
1	iP NEZ	20 09 28				-		
1	iP NEZ	21 20 52				-		
2	iP NEZ	00 32 48				-		
2	iP NEZ	01 03 12				-		
2	iP NEZ	04 37 55.5				-	9200	USCGS 58 $\frac{1}{2}$ S, 10W Sandwich Is. Region
2	iP NEZ	15 09 08				+	4850	USCGS 7 $\frac{1}{2}$ N, 127E Off east coast of Mindanao, P.I.
	i NEZ	09 20						
3	iP NEZ	00 42 17.5				-	5700	USCGS 13 $\frac{1}{2}$ N, 120E P.I. Region
	i Z	42 43						
	i Z	43 18						
3	iP Z	11 37 26				-		
3	iP NZ	12 08 43				-		
3	iP NEZ	12 52 26.5				-		
3	iP Z	15 08 12				.		
3	iP Z	15 16 42.5						

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			Δ Km.	Remarks
				A _n	A _e	A _z		
Oct. 4	iP NEZ i Z iS NEZ ScS NEZ	00 55 49 59.5 01 00 46 06 09				+	3450	USCGS 4 $\frac{1}{2}$ S, 143 $\frac{1}{2}$ E New Guinea
4	iP NEZ	14 29 49.5					13000	USCGS 23S, 68W Northern Chile
4	iP NEZ i	18 16 18.5 22 20				+	3850	USCGS 13 $\frac{1}{2}$ S, 168E New Hebrides
4	iP NEZ	23 46 16				-		
6	iP NEZ i NZ i NZ	00 53 49 53 57 54 05				-	3950	USCGS 32S, 179W Kermadec Is.
6	iP NEZ	02 15 15				-	4300	USCGS 23S, 179 $\frac{1}{2}$ W South of Fiji
7	iP NEZ iS NEZ i E P _{CS} E L _q NE SS E Lr Z	12 39 10 44 22 45 02 45 44 46 07 46 12 47 15				-	3600	USCGS 5S, 151 $\frac{1}{2}$ E New Britain
8	iP Z	11 20 20					4160	USCGS 29S, 177 $\frac{1}{2}$ W Kermadec Is.
8	iP NEZ i NEZ	14 0 1 16.5 07 30				+	3600	USCGS 7S, 155 $\frac{1}{2}$ E Solomon Is.
8	iP NEZ	14 31 19					3600	USCGS 7S, 156 $\frac{1}{2}$ E Solomon Is.
8	iP Z	15 45 28						USCGS 29S, 178W Kermadec Is.
9	iP NEZ	01 05 54				-		
9	iP Z	10 30 56				+	5500	USCGS 14N, 145 $\frac{1}{2}$ Mariana Is.
9	iP NEZ Lr. NEZ	11 33 16 12 08 48				-	9850	USCGS 55 $\frac{1}{2}$ S, 27 $\frac{1}{2}$ W Sandwich Is.
10	iP NEZ i	04 13 38 44				-		
10	iP Z i	08 43 20 43 34				-	10000	USCGS 53N, 160E Near east coast of Kamchatka
10	iP Z	09 28 35					9350	USCGS Approx. 30N, 180S, Tibet India border
10	iP Z	11 34 26				+		
10	iP NEZ	11 43 15.5				+	4650	USCGS 5 $\frac{1}{2}$ N 127E Off south coast of Mindanao
11	iP NEZ	23 03 49				+		

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			△ Km.	Remarks
				A _n	A _e	A _z		
Oct. 12	iP NEZ	09 52 42				-	4500	USCGS 17S, 175 $\frac{1}{2}$ W W. Tonga Is. Region
12	eP NEZ i NEZ	12 32 16 33 03						? Local
12	eP NEZ	12 38 15 59						? Local
12	iP NEZ	12 54 02 14					3450	USCGS 4 $\frac{1}{2}$ S, 144E Near north coast of New Guinea
12	iP NEZ PcP NZ pP NZ iS N	15 28 53 29 24 29 46 37 06				-	7100	USCGS 27 $\frac{1}{2}$ N, 125 $\frac{1}{2}$ E East China Sea
13	iP NEZ	01 20 10				+		
13	iP NEZ i N i Z i NEZ	05 34 14.5 34 22 36 02 39 12				+	4150	USCGS 14S, 173 $\frac{1}{2}$ E Northwest of Fiji Is.
13	iP NZ	09 11 41				-	10650	USCGS 41 $\frac{1}{2}$ N, 75E Kirghiz S.S.R.
14	iP Z	12 41 14				+		
14	iP NEZ iS NEZ	12 40 38 50 58					200	Local shock
15	iP Z	11 38 34						USCGS 31S, 178 $\frac{1}{2}$ W Kermadec Is.
16	iP NEZ i Z	12 03 54 04 25				+	7950	USCGS 23N, 94 $\frac{1}{2}$ E Burma
16	iP NEZ i Z (sP) Z e(S) Z	18 08 49 08 51 09 25 14 06				+	3950	USCGS 11S, 167E
17	iP NEZ i EZ i EZ	10 31 09 31 19 31 39				+	4600	USCGS 19 $\frac{1}{2}$ S, 177 $\frac{1}{2}$ W Fiji Is.
19	iP NEZ	02 02 21					5050	USCGS 19S, 172 $\frac{1}{2}$ W Tonga Is.
19	iP NEZ i N PcP Z iS EZ eL NE eL Z	11 49 40 50 39 11 52 13 55 14 12 01 15 02 45					3950	USCGS 34 $\frac{1}{2}$ S, 178W Kermadec Is. Region
20	iP NEZ i NZ i NEZ iS NE PeS NE e NEZ e	01 19 28 19 50 21 02 24 52 25 25 26 22 33 15				+	3850	USCGS 9 $\frac{1}{2}$ S, 112 $\frac{1}{2}$ E Off south coast of Java

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			Δ Km.	Remarks
				A _n	A _e	A _z		
Oct. 20	iP NEZ	03 04 1.5				+		
	e EZ	09 39						
	i Z	11 18						
	i Z	13 17						
	i N	04 54						
21	iP NEZ	06 21 09				+	3400	USCGS 5 $\frac{1}{2}$ S, 147E
	iPP NEZ	22 06						Near north east coast
	iPPP NEZ	22 23						of Java
	iS NEZ	26 06						
	e NEZ	27 40						
21	iP Z	12 23 40						
21	iP NEZ	15 47 38					3850	USCGS 11S, 111E
	i NZ	46						South of Java
	i Z	53						
21	iP NEZ	17 39 55				+	4050	USCGS 29S, 179W
22	iP NEZ	23 49 26				+	3700	Kermadec Islands
	i E	35						USCGS 14 $\frac{1}{2}$ S, 168E
	i N	45						New Hebrides
	eL NE	24 02 40						
24	iP Z	15 56 02						
	i(?P)							
	NEZ	16 05 37						
24	i E	05 57						
	iP NEZ	21 20 20.5				+	4150	USCGS 0, 125E
	i NEZ	27						Molucca Passage
	i NEZ	38						
24	i NZ	21 20						
	iP NEZ	22 35 57				+		
25	iP NEZ	00 59 02				+		
25	iP NEZ	04 51 44				-		
25	iP NEZ	08 35 01				-		
26	iP NEZ	02 25 54					5050	USCGS 5 $\frac{1}{2}$ N, 117E
	i NZ	26 23						Northern Borneo
26	iP NEZ	18 55 11				-		
	i Z	24.5						
27	iP NZ	10 47 09						
27	iP Z	15 12 32					4550	USCGS 23 $\frac{1}{2}$ S, 175 $\frac{1}{2}$ W
28	iP NEZ	10 58 57				-	9150	USCGS 30 $\frac{1}{2}$ N, 85E
	iPcP Z	59 05						Southern Tibet
	i(S) E	11 09 15						
	i E	09 35						
	eL NEZ	38 00						
28	eP NEZ	18 24 50					3700	USCGS 4 $\frac{1}{2}$ S, 153 $\frac{1}{2}$ E
28								New Britain - Solomon
								Is. Region
28	iP NEZ	19 14 29				-		

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				A _n	A _e	A _z		
Oct.28	iP NEZ Z	19 20 49 21 00				-		
28	iP NEZ i Z i Z	22 59 32 23 00 14 00 25						
28	iP EZ	23 21 47.5				-		
29		00 57 07				-		
29		01 23 04				-		
29	iP Z	07 14 50				-		
29	iP NEZ i Z eS Z eL NE eL Z	07 57 26 08 01 25 08 08 35 27 40 29 30					10400 USCGS 51 $\frac{1}{2}$ N, 179 $\frac{1}{2}$ E Aleutian Is.	
29	iP Z	14 08 39				-		
29	iP Z	15 27 55				+		
29	iP NEZ	18 04 11				-		
30	eP NEZ i NEZ	01 25 55 26 24						
30	iP NEZ	23 11 05				+		
31	iP NEZ	10 53 19				+		
31	iP NEZ i Z	12 49 48 50				-		
31	eP NEZ eLq NE eLr Z	19 09 29 21 30 23 15					3500 USCGS 3 $\frac{1}{2}$ S, 143 $\frac{1}{2}$ E New Guinea	
31	iP NEZ pP NZ	23 49 36 49 59				+	6900 USCGS 25N, 122 $\frac{1}{2}$ E Near north coast of Formosa	

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				A _n	A _e	A _z		
Nov. 1 ✓	iP NEZ	03 45 21					3700 USCGS 3S, 150E (Bismark Sea)	
	iPP NZ	46 32						
	i Z	54 32						
	eS NZ	50 40						
	eL NEZ	53 10						
Nov. 1 ✓	iP NEZ	06 13 20				3600 USCGS 3½S, 145½E New Guinea aftershock		
	i NEZ	14 14			+			
Nov. 1	iP NEZ	08 27 50						
	i NZ	28 11			+			
Nov. 1	eP NEZ	12 14 53						
Nov. 1 ✓	iP NEZ	12 22 58				3500 USCGS 17½S, 168E, New Hebrides Islands		
	i NEZ	23 06						
	i E	24 19						
	i E	24 45						
	iS NE	28 04						
	eL NEZ	29 04						
Nov. 1 ✓	iP NEZ	15 56 35				3500 USCGS 17½S, 168E, New Hebrides Is. Aftershock		
	i E	57 27						
	iS E	16 01 43						
	eLq NE	02 22						
	eLr Z	08 30						
Nov. 2	iP NEZ	00 55 50						
Nov. 2	iP NEZ	09 47 17						
Nov. 3	iP NEZ	02 39 53						

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			△ Km.	Remarks
				A _n	A _e	A _z		
Nov. 3	iP iPcP	NEZ Z	04 07 49 10 07			-	4050	USCGS 31S, 177½ W Kermadic Islands.
✓ 3	iP iPcP	NEZ Z	14 44 02 44 05			+	9150	USCGS 30N, 84½ E, Tibet.
4	iP	NEZ	00 30 37			+	3350	USCGS 6S, 147½ E Near North Coast of New Guinea
✓ 4	iP i	NEZ NEZ	08 38 55 39 02			+	7000	USCGS 28N, 140½ E (Bonin Islands Region)
✓ 4	iP i	NEZ NEZ	08 41 26 41 30			+	7000	USCGS 28N, 141E (Bonin Islands Region)
4	iP	NEZ	20 02 08				3350	USCGS 11S, 166E, Santa Cruz Is.
✓ 4	eP eL	Z NEZ	23 06 20 29 30				8100	USCGS 50S, 115W. South Pacific Ocean.
4	iP	Z	23 41 15			+	3500	USCGS 17½ S, 168E, New Hebrides Is.
✓ 5	iP	NEZ	13 08 02				5100	USCGS 14½ S, 175½ W, Samoa Islands Region
6	iP	Z	08 17 43			+		
6	iP iP iPP isP iPcP	NEZ NEZ NEZ NEZ NEZ	15 36 01 36 47 37 08 37 16 38 49			-	3400	USCGS 6S, 128E, Banda Sea. h 250 Km.
	iS e	NEZ	40 36 42 30					
6	iP	Z	20 01 32			-		
6	iP i i iS eL	NEZ Z Z NEZ NE	23 10 13 10 31 13 26 20 14 33 56			+	8900	USCGS 44½ N, 148½ E h about 100 Km. (Kurile Islands) Mag. 3 - 8¼
7	e(P) PcP	Z Z	00 48 27 48 38				8900	USCGS 44N, 149E Kurile Islands
7	eP	N Z	01 14 15				8900	USCGS 44N, 148½ E, Kurile Islands
7	eP	NEZ	01 26 01				8950	USCGS 45N, 149E Kurile Islands.
7	e(P)	Z	01 55 09				8900	USCGS 44½ N, 149½ E Kurile Islands
7	e(P)	Z	02 07 48				8900	USCGS 44½ N, 149E Kurile Islands
7	i(P)	Z	02 22 39					
7	e(P)	Z	03 03 02				8900	USCGS 44½ N, 149½ E Kurile Islands

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			Δ Km.	Remarks
				A _n	A _e	A _z		
Nov. 7	e(P)	Z 05 11 50					8900	USCGS 44½N, 149E, Kurile Islands
7	eP	NEZ 07 52 47					8900	USCGS 44½N, 149E Kurile Islands
	i	NEZ 53 07						
7	i(P)	NEZ 07 54 09				-		
	i	Z 56 08						
	i	EZ 58 55						
	i	E 59 47						
7	iP	Z 10 41 40					8600	USCGS 44N, 148E, Kurile Islands
7	iP	Z 11 36 34					8900	USCGS 44½N, 149½E Kurile Islands
7	iP	Z 14 36 45				-		
7	eP	Z 17 44 53						USCGS 44N, 148½E, Kurile Islands
7	iP	Z 19 26 43					8900	USCGS 44½N, 149½E, Kurile Islands
7	iP	NEZ 20 31 57				-		
7	iP	NEZ 23 48 30						
8	iP	Z 09 35 47				-	9900	USCGS 52N, 159½E, Off south-east coast of Kamchatka
8	iP	Z 13 25 59				-		
8	iP	NEZ 19 47 22				+	7000	USCGS 11½N, 93E, Andaman Islands
	i	NEZ 47 24						
	i	EZ 47 32						
9	iP	Z 09 25 12				+		
9	iP	NEZ 14 54 59				-		
	i	Z 55 12						
9	iP	Z 15 11 12				-		
9	iP	Z 23 18 05				+		
10	iP	NEZ 06 27 48						
	e	NEZ 32 53						
10	iP	NEZ 12 17 08						
11	iP	N Z 13 27 08						
	i	N Z 27 43						
12	iP	NEZ 10 46 07.5				+	3600	USCGS 7S, 156E Solomon Islands
	i	N Z 46 20						
12	iP	NEZ 20 35 37				+	8900	USCGS 44½N, 149E, Kurile Is. Felt Hokkaido and northern Honshu, Japan Mag 6½ - 7 (Pas.)
	iPcP	Z 35 48						
	iS	NE 45 40						
	eL	NEZ 20 56 00						

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			△ Km.	Remarks
				A _n	A _e	A _z		
Nov. 13	iP	N Z	04 16 58				8900	USCGS 44 $\frac{1}{2}$ N, 148E, Kurile Is.
13	iP	NEZ	16 26 42		-		6850	USCGS 9N, 93 $\frac{1}{2}$ E
	i	NEZ	26 59					Nicobar Islands.
14	iP	NEZ	03 29 22.5		+			
	i	Z	30 50					
14	iP	N Z	05 47 02		-		8900	USCGS 44N, 149E Kurile Is.
14	iP	NEZ	13 54 28		-		3330	USCGS 6S, 131E, Banda Sea.
	i	NEZ	54 50					
	i(S)	NEZ	59 20					
	eL	NEZ	14 00 02					
15	iP	NEZ	09 12 56		-		8900	USCGS 44N, 149E.
	i	Z	13 17					Kurile Islands.
15	eP	Z	19 23 36				5150	USCGS 15 $\frac{1}{2}$ S, 174W.
								Samoa Islands.
16	iP	NEZ	03 09 37		+			
16	iP	NEZ	17 53 31				5350	USCGS 16S, 172W,
	i	Z	53 50					Samoa Islands.
	iPP	EZ	55 24					
	iS	NE	18 00 30					
	eL	NEZ	09 15					
16	eP	NEZ	18 08 44				3400	USCGS 20S, 169E,
								Loyalty Islands.
16	iP	NEZ	21 55 40				7000	USCGS 28N, 139 $\frac{1}{2}$ E,
								Bonin Islands.
17	iP	NEZ	09 53 04		+		3700	USCGS 10 $\frac{1}{2}$ S, 162 $\frac{1}{2}$ E,
	i	N	53 13					Solomon Islands.
	i	Z	54 12					
	eL	NE	10 00 15					
	eL	Z	03 40					
17	i	NEZ	16 25 38		-			
	i	Z	26 01					
17	eP	Z	18 51 06				3400	USCGS 20 $\frac{1}{2}$ S, 169E,
								Loyalty Islands
18	iP	NEZ	08 05 07		-			
18	eP	NEZ	09 53 58					
18	iP	NEZ	11 43 36					
	i	Z	43 43					
	i	N Z	46 33					
18	iP	NEZ	16 20 38.5		+			
	i	N Z	50					
	i	Z	52					
18	iP	NEZ	16 44 18		+			
	i	Z	44 53					
	i	N Z	45 01					
	e	NEZ	50 03					

210

Date, 1958	Phase	Time (G.M.T.)	Per	Amplitude			△ Km.	Remarks
				A _n	A _e	A _z		
Nov. 19	iP	NEZ	04 00 55			-	3950	USCGS 31S, 179W. Kermadec Islands.
	i	NEZ	01 06					
	iPP	Z	02 18					
	iPPP	Z	02 32					
	iPcP	Z	03 19					
	iS	NEZ	06 27					
19	iP	NEZ	07 41 34			-		
19	iP	NEZ	09 35 56			-	8800	USCGS 44N, 149E, Kurile Islands.
19	iP	NEZ	19 38 16			-	4650	USCGS Fiji Islands.
20	iP	NEZ	01 48 02			+		
	iP	NEZ	14 30 12.5			-	8950	USCGS 45N, 149 $\frac{1}{2}$ E, Kurile Islands.
	i(pP)	N Z	30 26.5					
21	eP	NEZ	15 29 25					
22	iP	NEZ	00 11 07				3750	USCGS 10 $\frac{1}{2}$ S, 112 $\frac{1}{2}$ E, South of Java.
	iS	N	16 34					
	eL	NEZ	17 40					
22	iP	NEZ	00 45 52			+		
22	iP	NEZ	02 03 18			-	3500	USCGS 4S, 131 $\frac{1}{2}$ E, Coron Island Region.
	iPP	NE	04 20					
	iPPP	NE	04 40					
	eS	NE	08 28					
	e	NEZ	09 55					
22	eP	Z	04 33 02					
22	iP	NEZ	07 03 19			+		
22	iP		13 55 16			+		
22	eP		16 17 33					
23	eP		02 01 40					
23	iP		02 55 18			+		
23	i(P)		18 09 21			+		
23	i(P)		19 20 50			+		
24	eP	NEZ	07 01 28				9450	USCGS 57 $\frac{1}{2}$ S, 65 $\frac{1}{2}$ W. Drake Passage.
24	iP	NEZ	17 50 38			-	4950	USCGS 8N, 127E, Near East Coast of Mindanao, P I.
25	iP	Z	13 21 17			+		
26	iP	NEZ	00 23 57			+	3750	USCGS 10 $\frac{1}{2}$ S, 112 $\frac{1}{2}$ E, South of Java.
27	iP	NEZ	13 48 44				3900	USCGS 65S, 170E, 300 miles North East of Ballery Islands (approx)

6.

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			△ Km.	Remarks
				A _n	A _e	A _z		
Nov. 28	iP NEZ	07 53 25.5			-			
28	iP N Z	22 14 23			+			
29	iP NEZ	04 53 55				4200	USCGS 28S, 177½ W, Kermadec Islands region.	
29	iP NEZ	05 38 34						
29	iP NEZ	21 18 08			+			
30	iP N Z	01 43 38			+	7450	USCGS 32N, 137½ E, South of Honshu, Japan.	
30	iS NE	52 31						
30	iP N Z	02 06 30			+	7450	USCGS 32N, 137½ E, Honshu aftershock.	
30	iP Z	09 51 22			-			
30	iP NEZ	17 34 29						

UNIVERSITY OF ADELAIDE SEISMOLOGICAL STATION

ADELAIDE (MT. BONYTHON)

210

 Latitude: $34^{\circ} 58.1'S$ Longitude: $138^{\circ} 42.9E$

Height above sea level: 650 metres (approximately)

Foundation: Sandstone

Instruments: Benioff variable reluctance seismometers with three component long and short period paper recorders.

 $T_g = 75$ sec. and $T_g = 0.2$ sec. respectively

Date 1958	Phase		Time (G.M.T.)	Per	Amplitude			Δ Km.	Remarks
					A_n	A_e	A_z		
Dec. 1	eP	N Z	10 32 28						
2	eP	Z	04 07 11						
2	iP	NEZ	04 40 39			+			
2	iP	NEZ	21 22 31			-			
3	iP	NEZ	00 59 32						
3	iP	Z	02 35 46			-	8800	USCGS 27N, 86E, Nepal	
3	iP	NEZ	09 56 14			+			
3	iP	NEZ	09 58 10				6250	USCGS 19N, $121\frac{1}{2}E$ Near north coast of Luzon, P.I.	
3	iP	NEZ	11 18 22			-			
3	iP	Z	16 10 39				7100	USCGS 29N, $138\frac{1}{2}E$, South of Honshu, Japan. h about 550 Km.	
3	iP	NEZ	20 39 42			+			
4	iP	NEZ	12 35 34						
5	iP	NEZ	15 29 06			+			
6	iP	NEZ	00 54 14			-			
6	iP	NEZ	20 57 55			+			
6	(eP)	NEZ	21 13 35						
6	iP	Z	22 46 46			+	7550	USCGS 33N, 141E, South of Honshu Japan.	
6	eP	Z	23 58 49						
7	iP	NEZ	01 19 17			-	6550	USCGS $21\frac{1}{2}N$, 121E, Off south coast of Formosa.	
7	iP	NEZ	01 53 50			-	6550	USCGS $21\frac{1}{2}N$, $121\frac{1}{2}E$. Off south coast of Formosa.	
7	iP iS	NEZ NE	02 53 32 59 36				4500	USCGS 4N, 127E, Talaud Islands.	
7	iP	NEZ	06 28 29			+	3550	USCGS Bismarck Sea.	
7	iP	Z	09 01 13			+			
7	iP	NEZ	14 58 25			-			

(2)

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			△ K _{m.}	Remarks
				A _n	A _e	A _z		
Dec. 7	iP	NEZ	20 16 11			+		
	e	NEZ	22 55					
8	iP	NEZ	01 42 14.5			+		
8	iP	NEZ	03 16 45			-	3750 USCGS 13S, 167E New Hebrides Is.	
✓ 8	iP	Z	12 20 37				8900 USCGS 44N, 149½ E. Kurile Is.	
9	eP	NEZ	00 46 15				3350 USCGS 10S, 120E, Sumba Is. / Region.	
9	iP	NEZ	08 07 16.5			+	3650 USCGS 8S, 118E, Flores Sea	
10	iP	NEZ	07 08 56			+	3400 USCGS 37S, 176½ E	
	i	NEZ	07 10 14				Off North Island, New Zealand.	
	iS	NEZ	13 40					
	i	Z	14 53					
✓ 10	iP	NEZ	14 46 36				4600 USCGS 5N, 126E	
	i(S)	N	52 39				Off south coast of Mindanao P.I.	
✓ 11	iP	Z	18 48 58				7150 USCGS 29½ N, 140E South of Honshu Japan.	
12	eP	N Z	13 04 56					
12	(eP)	N Z	13 11 02					
12	(eP)	NEZ	13 11 35				? non seismic disturbance	
	i	NEZ	11 45					
	(iS)	N	13 10					
12	iP	NEZ	22 38 01			+		
	i	NEZ	39 14					
13	iP	NEZ	02 16 45					
13	iP	NEZ	09 12 35			-	3700 USCGS 4½ S, 153½ E Solomon Islands region.	
✓ 13	iP	NEZ	09 20 26			-	9650 USCGS 55½ S, 22W, Sandwich Islands region.	
13	eP	N Z	13 58 32					
✓ 14	iP	Z	07 24 13.5			-	9550 USCGS 35S, 108½ W, South Pacific Ocean	
14	iP	NEZ	08 16 11			-		
14	iP	N Z	12 17 43			+		
15	iP	NEZ	12 47 38			+	4100 USCGS 31S, 177½ W, Kermadec Islands.	
16	iP	NEZ	03 25 54				3950 USCGS about 450 miles south of Fiji Islands.	
16	iP	NEZ	21 42 52					
17	eP	NEZ	13 38 41					
✓ 17	iP	Z	15 44 54				7000 USCGS 27½ N, 128E Ryukyu Islands.	
17	iP	NEZ	20 40 22			+	3750 USCGS 4½ S, 153½ E, New Ireland Region.	
18	iP	NEZ	05 11 01			+		

(3)

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			△ Km.	Remarks
				A _n	A _e	A _z		
Dec. 18	eP NEZ	07 24 18					3450	USCGS 11S, 117½ E, South of Sumbawa Island.
✓ 18	iP NEZ	07 35 52				+	6100	USCGS 18N, 120½ E, Near north coast of Luxon P. Is.
18	iP NEZ	13 22 30						
✓ 18	iP NEZ	19 32 26					5200	USCGS 16S, 173W, Tonga Islands Region.
18	iP NEZ	20 51 00						
19	iP	04 28 37						
19	eP Z	08 54 00.						
20	iP	04 27 18.						
✓ 20	iP NEZ	19 31 21				+	7150	Islands Reg. USCGS 28½ N, 127½ E, RyuKyu /
20	iP NEZ	21 19 25					3550	USCGS Sumbawa Island.
MA 21	iP NEZ	05 46 26					10550	USCGS 44½ N, 81E, Western Sinkiang Prov. China.
21	iP N Z	16 57 02						
21	iP NEZ	18 25 17						
22	eP N Z	02 23 49					3550	USCGS 6S, 155E, Solomon Islands
22	eP Z	08 03 32					5000	USCGS Tonga Island Region.
22	eP EZ	08 31 21						
22	iP NEZ	12 16 50						Local Shock.
22	iP NEZ	15 24 50						
22	iP	19 27 46				-		
22	eP NZ	21 36 48						
	iS	37 20						
23	eP Z	03 38 58					5100	USCGS Tonga Islands Region.
23	iP EZ	19 22 58				-		
23	i(P) Z	19 41 51						
24	eP Z	01 19 30					3400	USCGS 6½ S, 150½ E, Near north coast of New Brit- ain.
24	iP Z	02 12 52				-		
24	eP NEZ	10 53 13						
24	iP Z	20 21 33						
24	eP NEZ	20 41 46					3550	USCGS 18S, 169E, New Hebrides Islands.
24	eP Z	22 17 26					3550	USCGS 18S, 169E New Hebrides Islands.

(4)

Date 1958	Phase	Time (G.M.T.)	Per	Amplitude			△ Km.	Remarks
				A _n	A _e	A _z		
Dec. 25	iP NEZ	08 11 59				-	3550 USCGS 5 1/2 S, 151 1/2 E, New Britain.	
	iPP N Z	13 08						
	iPcP Z	15 01						
	iS NEZ	17 04						
	iPcS Z	18 34						
	eL NEZ	19 00						
25	iP NEZ	11 19 58				+		
25	iP Z	15 53 29				+		
25	iP Z	21 51 29						
26	iP NEZ	05 57 45					4000 USCGS South of Fiji Is. h about 600 Km.	
26	eP Z	17 00 00						
26	eP NEZ	22 28 25						
26	iP NEZ	22 42 41						
27	iP NEZ	08 31 59				+		
28	eP N Z	04 51 14						
28	eP NEZ	05 47 16					9450 USCGS 29 1/2 N, 80E, Western Nepal-India Border.	
28	iP NEZ	06 52 00					4650 USCGS Fiji Islands Region.	
28	iP NEZ	06 56 08				-		
28	eP N Z	17 28 32						
29	iP Z	14 50 28				-		
29	iP NEZ	22 47 42				-	5900 USCGS 2 1/2 N, 99E, Northern Sumatra.	
30	eP Z	08 50 50					10050 USCGS 35 1/2 S, 105 1/2 W, South Pacific Ocean.	
30	iP NEZ	16 13 50						
31	iP NEZ	01 52 48 58 16					4350 USCGS 23S, 178 1/2 W, Tonga Islands Region h about 400 Km.	
31	eP NEZ	05 13 41						