

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



203 Collins Street,
MELBOURNE. VIC.

FINAL SEISMOLOGICAL BULLETIN 1962.

WILKES STATION, ANTARCTICA

Latitude: 66° 15' S.

Longitude: 110° 35' E.

Height: 12 metres above M.S.L.

Foundation: Gneiss

Instruments: Lehner and Griffith Long Period Seismograph System.

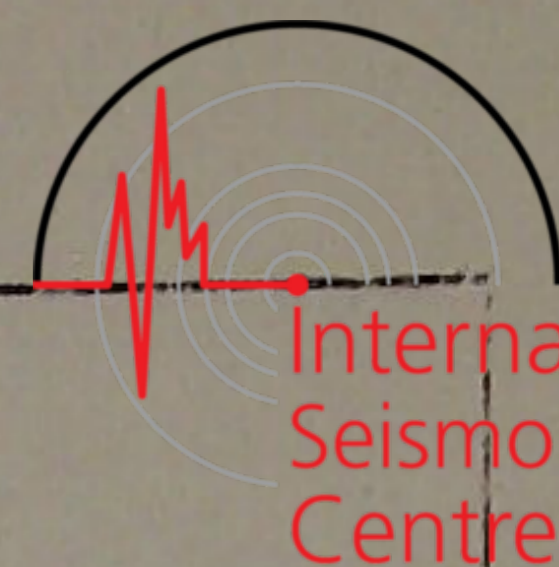
Seismometer periods:	(Nominal)	15 Sec.
Galvanometer periods:	(Nominal)	90 Sec.
Magnification:	(Nominal)	4200 at 25 Sec.
Recorder:	Lehner and Griffith	NEZ

Grenet Short Period Vertical Seismograph

Seismometer period:	1.4 Sec.
Galvanometer period:	1.0 Sec.
Magnification:	Uncalibrated
Recorder:	Buromin

Epicentres given in remarks are from USCGS cards unless otherwise stated.

Date 1962	Phase		Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A _N	A _E	A _Z		
<u>JANUARY</u>			h. m. s.	s.				km	
16	iP	Z	11 45 10						USCGS: Kermadec.
	iS	Z	52 32						M = 6½
	iPS	Z	52 54						
16	eL(r)	Z	19 16 ..						USCGS: Mid-Atlantic Ocean.
17	eL	Z	13 52.6						
17	eL	Z	16 10.6						USCGS: Molucca Passage. H = 15 29 06.6
23	e(SS)	N	18 12.8						USCGS: Italy. Felt.
	eX	E	13.5						
	eX	Z	15.2						
25	e(L)	NEZ	01 10.0						
	eX	NE	18.5						
26	eL	N Z	09 26.0						
28	iP	N Z	05 51 14						USCGS: Tonga.
	eS	N	06 00 20						M = 6¼
	eLr	Z	12 49						
30	iX	Z	09 17 31						USCGS: Near Coast of Nicaragua ?
	eLr	NEZ	34.4						
30	i(P)	Z	18 41 06						USCGS: New Hebrides Is. Region.
	eX	E	49(07)						h about 79km
	eLr	EZ	59 ..						
<u>FEBRUARY</u>									
1	iP	Z	00 49 21						USCGS: Kermadec.
	iS	NE	56 58						



Date 1962	Phase		Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A _N	A _E	A _Z		
FEBRUARY (cont'd)			h. m. s.	s.				km	
3	iP	NEZ	00 48 53						USCGS: North of New Guinea.
	iS	NE	57 50						
	i(SP)	Z	58 04						
	iG	NE	01 05 25						
	M	EZ	16 ..						
4	eS	E	03 13 35						USCGS: Celebes.
4	eL	Z	12 36.2						
4	eL ?	E	21 13						Instruments unstable due blizzard.
	eL	Z	21 20						
8	iX	N	12 00 55						Obscured by record change.
	iX	Z	12 09 00						
8	eL	N	20 11.5						
11	iP	NEZ	19 06 24		-	-	+		USCGS: New Ireland Region. M = 6 h about 100km
	iS	NE	15 19						
	iSP	NEZ	15 44						
	iSS	NEZ	19 32						
	eG	N Z	23 00						
	M	N Z	29.0						
	M	NEZ	35.1						
14	iP !	N Z	06 47 46	20	+		+		USCGS: Near coast of Chile. M = 7 $\frac{1}{4}$ - 7 $\frac{1}{2}$
	iX	E	47 49						
	iX	Z	48 16						
	eX	Z	50 51						
	iX	Z	50 08						
	iX	N	50 34						
	iX	N	52 32						
	iS	NE	57 30						
	iX	NE	58 30						
	eSS	NE	07 02 28						
	mG	N Z	07.0						
14	eL	Z	23 09.0						
15	eLr	NEZ	10 15.0						USCGS: Prince Edward Is. Region.
15	eLr	NEZ	15 58.4						USCGS: New Ireland Region h about 109km
17	iX	EZ	03 51 56						
	i(S)	N	52 53						
	iX	E	53 00						
	iX	Z	53 20						
	i(SS)	N	53 39						
	e(ScP)	Z	56 22						
	iX	E	56 43						
	iL	Z	57 32						
	eL	E	57 50						
18	eL	NEZ	18 24						
20	eLq	N Z	20 19.0						USCGS: South of Australia.
20	eX ?	N	22 30.0						USCGS: Northern Burma
	eLr	N Z	45.1						
22	eL	NE	06 08.5						
	eL	Z	13.6						
23	eLr	N Z	18 40.8						USCGS: New Ireland.
23	e(S)	E	20 41(32)						USCGS: New Britain : Felt.
	eL	N Z	56 20						



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>FEBRUARY (cont'd)</u>		h. m. s.	s.				km	
26	eLr Z	09 15.8						USCGS: Northern Celebes.
27	iP N Z	12 52 34						USCGS: Near coast of Central Chile. M = 6 - 6½
	iS NEZ	13 02 16						
	eX N	06 56						
	eSS E	07 16						
	eSSS EZ	10 26						
<u>MARCH</u>								
1	eL Z	07 37.5						
1	eP Z	23 51 52						USCGS: Samoa Is. M = 6
	i(S) NE	00 00 49						
	i(ScS) E	01 56						
	eSS N	04 54						
	iL N Z	08 21						
2	iX ? N	01 47 47						
2	i(PcP) Z	13 14 41						USCGS: Off South coast of Mindanao.
	iS E	23 44						
	iX N	23 57						
3	eP Z	12 25 48						Small surface waves.
	i(S) NE	35 55						
5	iS NE(Z)	06 53 15						Deep ?
	eL Z	07 14.4						
5	eL NEZ	07 56.0						
5	eX Z	08 42 15						
5	eP ? Z	09 07 15						
	eL NEZ	09 12.5						
5	i(P) Z	10 24 56						USCGS: South Sandwich Is.
	i(S) (N)E(Z)	32 25						
	iSS (N) Z	36 19						
	eLq E	37 57						
	eX NE	38 27						
	eLr NEZ	40.6						
5	eL Z	16 20						
5	eL E	41.6						
	eL Z	17 45.3						
5	eX EZ	22 05.1						Surface waves arrive until about 03 Z on 6th.
6	eL EZ	03 00.5						
6	eL E	53.5						
	eL Z	03 55.1						
6	eX E	18.9						USCGS: Andaman Is.
	eL Z	06 22.2						
	eLr N Z	33.4						
6	eL Z	12 34.4						
	eL Z	42.5						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
<u>MARCH (cont'd)</u>		h. m. s.	s.				km	
7	iP Z	11 12(53)						USCGS: Mariana Is. M = 6 - 7
	ipP Z	15 09						
	iX Z	19 23						
	iSKS NE	22 14						
	iS N Z	22 43						
	iX E	23 48						
	iSP NEZ	23 52						
	i(PS) N	25 33						
	iX N	26 52						
	eX E	27 26						
8	eL E	21 18.4						USCGS: Congo or off Southern Chile.
	iL E	21 52						
	e(L) N Z	22 02						
8	eL N	22 14						
	eL EZ	15.4						
	iL Z	18 56						
9	i(S) E	22 26(53)						USCGS: Near East coast of New Guinea. h about 76km
	iX N	26 55						
	eX Z	26 56						
	M Z	44.6						
10	eL Z	01 25 39						
10	eLr N Z	03 34.2						USCGS: Sumatra.
10	eLr Z	12 40.3						USCGS: Santa Cruz Islands.
10	e ? Z	22 45.1						
	eX Z	50 19						
	iL N	54 55						
11	iP N Z	19 30 55						USCGS: Near East coast of Mindanao.
	iX N Z	34 10						
	eS NE	40 28						
	iSS NE	45 40						
	M Z	20 01						
12	eL (N) Z	10 44.3						
12	eP diff. ? Z	11 55 46						
	iPP Z	12 00 40				+		E off paper: record change 1209 $\frac{1}{2}$ until 1214 $\frac{1}{2}$
	iX Z	16 49						USCGS: Near South coasts of Panama and Costa Rica. M = 6 $\frac{1}{4}$ - 6 $\frac{3}{4}$ h about 58km
	eX E	17 38						
	eX N Z	17 47						
	eSSS N Z	21 15						
	iX Z	24 32						
	eX Z	26 00						
	cL E	30.1						
	eLr N	37.0						
	eLr Z	38.1						
	M N Z	47.9						
16	eS ? N	20 01 52						USCGS: Santa Cruz.
	eL N Z	20 17.9						
17	ePP Z	21 08 02						USCGS: N. Atlantic.
	eSKS N	13 27						
	eX Z	14 37						
	iX Z	15 44						
	eX N	17 39						
	iPS ? Z	18 10						
	iX N Z	19 20						
	eX E	23 55						
	eSS N Z	24 45						



Date 1962	Phase	Time (G.M.T.)	Per	Amplitude			△	Remarks
				A _N	A _E	A _Z		
MARCH	(cont'd)	h. m. s.						
17	eX E	21 23 55						
	iL(G) N(E)	38 01						
	G max NE	40.9						
	iL N	50 34						
	M Z	57						
	G ₂ NE	22 29.4						
18	eS N	03 24 56						USCGS: New Hebrides: Felt.
	e(SS) NE	29 00						
	eLq N	32 47						
	eLr Z	35.1						
18	eL EZ	16 37.4						
18	eL Z	17 42.2						
19	iP EZ	04 53 56		-		+		About 900 miles South of Tasmania.
	iS N Z	57 34						
	eL Z	58.4						
	M EZ	05 00.2						
19	e? N	06 05 48						USCGS: Minahossa Peninsula Celebes.
	eX EZ	13 52						
	iX N	13 56						
	iX N	14 59						
	iX E	22 28						
	eX N Z	26 12						
20	eL Z	04 58.6						
20	eL Z	11 38.2						
21	eLr Z	02 57.4						USCGS: Loyalty Is.
21	iP N Z	23 07 04		-		+		USCGS: Java Sea
	eScP Z	10 43						
	iS NEZ	14 30		+	-	+		
	iScS NE	15 54						
	eSS N	17 53						
22	iP NEZ	00 28 57					-	USCGS: Java Sea.
	esP N Z	31 41						
	eS Z	36 21						
	iSP? N Z	36 25					+	
	esS NE	39 43						
	eX Z	43.3						
22	iP NEZ	15 23 56					+	USCGS: North New Guinea M = 5 $\frac{3}{4}$
	iS NE	32 48						
	iPS E	33 54						
	eSS NE	36.6					-	
	i(SS) Z	37 33						
	iG NE	40 20						
	M ₁ N Z	53.0						
	M ₂ N Z	59.5						
24	iP Z	13 10 04					-	USCGS: Near North Coast of New Guinea h about 111km
	i(pP) Z	10 25						
	i(PcP) E	10 30						
	i(ScP) (N)Z	14 31						
	eS NEZ	18 32						
	iX NE	18 39						
25	eL Z	14 46.8						
26	eLr Z	12 53 13						USCGS: Mid Atlantic Ocean.
26	iP Z	16 44 14					+	USCGS: South Chile Coast.
	eX N	(42)						
	eX Z	53(50)						
	iS E	56						
	eSS N	58 33						
	eX E	41						
	i(G) N Z	17 02 29						
	M EZ	20.0						



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Remarks
				A _N	A _E	A _Z	
MARCH	(cont'd)	h. m. s.	s.				km
28	eLr (N) Z	04 36.9					USCGS: Near South coast of Sumatra.
29	e(S) N	20 28 45					USCGS: Halmahera.
	eX EZ	28 53					
	eX Z	33.3					
	eX E	35 56					
	eL N Z	40.3					
31	ePS E	08 06 35					USCGS: Negros Island.
	eLq E	16.9					Philippines.
	eLr Z	20.8					
APRIL							
1	eLr Z	01 43.8					USCGS: East Iran.
1	e ^P Z	12 22 03					USCGS: Near North Coast of New Guinea.
	eX N	30 50					h about 80 km
	iSP N Z	30 57					
	(i)ScS N(E)	31 43					
	eG E	37.8					
	eG N	38.1					
	eL Z	42.9					
3	iS N	16 44 31					USCGS: Santa Cruz Is. Region.
	e(ScS) E	45 10					M = 5 $\frac{1}{2}$
	eLq N	51 54					
4	eLr Z	15 04.6					USCGS: Near South Coasts of Panama and Costa Rica.
5	eLr N	12 58.7					USCGS: Near Coast of Southern Chile.
6	eLr N	17 24.6					USCGS: Easter Island Region.
7	e(P) Z	06 33 56					USCGS: Caroline Island
	i(S) EZ	43 49					M = 6
	iX Z	45 49					
	eX N	48 49					
	i(SS) E	48 54					
	eL NE	54.3					
12	e(PP) N	01 11 48					USCGS: Near East Coast of Honshu, Japan.
	iX NE	19 07					h about 68km M = 6 $\frac{3}{4}$ - 7 $\frac{1}{4}$
	iX N	26 11					
	iSS E	26 25					
	iX Z	26 33					
	Max. Z	52.8					Confused by heavy microseisms and drift.
16	eL N Z	14 07.6					
16	eLr Z	18 14.6					USCGS: Prince Edward Island.
17	eL N	18 04.0					USCGS: South Island of New Zealand.
18	eX N	19 39 28					USCGS: Off coast of Peru.
	eX N	42 07					
	eX E	46 50					
	eX N	47 45					
	eX Z	50 09					
	eLr N	20 03 42					
	iX E	06 06					
	Max. N Z	11.1					



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
APRIL (continued)		h. m. s.	s.				km	
19	eP Z	22 25(21)						USCGS: New Hebrides. h about 213km Felt.
	iS NE	33 38						
	e(Lr) NEZ	40.9						
20	eL Z	00 35.8						
20	iPKP Z	06 07 13				+		USCGS: Near North Coast of Haiti. M = 6 - 7
	iPP N Z	09 42						
	iPKS NE	10 44						
	iX E	10 49						
	iSKKS N	16 31						
	iSKSP N Z	19 42						
	iSP Z	20 06						
20	e(SPP) Z	06 21 38						
	iPPS N	21 45						
	eScS, PKP Z	22 55						
	eSS N	27 08						
	eSSS N	32 11						
	eLq E	45.3						
	eLr N Z	53						
22	eLr N Z	05 46.0						USCGS: Near Coast of Chiapas, Mexico. M = $5\frac{1}{4}$ - $5\frac{1}{2}$
23	eP diff. Z	06 12 46						USCGS: Hokkaido, Japan. M = 7 - $7\frac{1}{4}$
	ePKP Z	16 44						
	iPP NEZ	17 24						
	ePPP (N)Z	19 51						
	iSKS NE(Z)	23 19						
	iSKS ₂ E	23 52						
	i(SP) ₂ (N)Z	26 37						
	i(PS) E	26 48						
	e(PSP) Z	28.0						
	e(SS) NEZ	32.6						
	iX E	44 37						
	eLr N Z	50.7						
	M N Z	52.0						
	eLr ₂ NEZ	07 55.0						
	M ₂ N Z	58.0						
25	ePP Z	16 05 32						USCGS: Honshu.
	e(PS) (N)Z	15 32						
	iSS NE	20 54						
	eX Z	21.1						
	eX E	28 27						
	eX E	32.1						
	eX Z	37.6						
27	iP V	06 58 38						USCGS: Southern Chile. V is Grenet short period vertical. Time on V is uncertain.
	eX E V	07 07 47						
30	eX N(E)	03 00.0						
30	eP V	16 27 39						USCGS: Tonga Island.
	e(pP) NE	27 53						
	iS NE	36 32						
	eSS E	41.0						
	eLq N Z	44.2						
	M Z	50.6						
30	iP V	18 56 59						
	iX NE	00 41						
	eX Z	03 21						



Date 1962	Phase		Time (G.M.T.)	Per.	Amplitude			△	Remarks
					A _N	A _E	A _Z		
<u>APRIL (continued)</u>			h. m. s.	s.				km	
30	eP	V	20 51 15						USCGS: Banda Sea.
30	eX	V	23 44 18						
	iX	V	44 33						
<u>MAY</u>									
1	iX	V	06 49 49						
	iX	V	50 03						
	iX	V	50 06						
1	eX	V	17 52 49						
1	eX	V	18 15 07						
1	eP	V	19 29 25						
2	eX	V	02 13 56						
2	eX	V	03 04 40						
2	iP	ZV	09 09 14						USCGS: JuJuy Province, Argentina.
	eX	V	09 18						
	iSS	N	25 54						
2	eX	V	09 56 30						USCGS: South of Fiji Is.
2	eX	V	10 40 19						
	iX	V	40 30						
2	eP	V	20 15 05						
	iX	V	15 09.5						
	iX	V	15 58						
2	eP	V	22 18 16						
	iX	V	18 31						
3	eP	ZV	03 43 54.5						USCGS: Sandwich Island Region. M = $5\frac{3}{4}$ - 6
	iX	V	44 14						
	ePP	N ZV	45 47						
	i(S)	NEZ	51 16						
	iSS	N	54 40						
	eLq	E	56.3						
	eLr	Z	58.5						
	M	Z	04 04.3						
3	eX	V	11 34 27						
3	eX	V	14 32 22						Possible as typical disturbance.
3	eP	V	17 09 35						USCGS: South Sandwich
	eL	N	28.8						
3	eX	V	20 26 38						
3	eX	V	21 20 30						
3	eX	V	23 29 53						
4	iX	V	00 19 18						
4	eX	V	01 52 55						
4	eX	V	02 27 46						
4	eX	V	02 44 26						
4	eX	V	03 01 35						
4	eX	V	09 12 23						





Date 1962	Phase		Time (G.M.T.)	Per.	Amplitude			△	Remarks
					A _N	A _E	A _Z		
MAY (continued)			h. m. s.	s.				km	
5	eL	Z	00 08 13						
5	eX	V	13 31 25						
5	eX	V	16 36 07						
5	eX	V	20 31 21						
	iX	V	31 30						
5	eP	V	23 15 21						USCGS: Kermadec.
	eLr	Z	31.9						
6	e(P)	V	03 22 43						USCGS: South Pacific, 3000 miles South East of New Zealand.
	M ₂		42.9						
6	eP	V	03 42 39						USCGS: South Pacific, 2300 miles South East of New Zealand.
	i(S)	N	49 53						
	eL	N(E)	53.7						
	M	Z	04 03						
6	iP	NEZ	19 09 17				-		USCGS: Sandwich Island, Region. M = 6 $\frac{3}{4}$ - 7
	iPP	N Z	11 14						
	iS	Z	16 22						
	iPS	N	16 33						
	iPS	E	16 37						
	eSS	NE	20.0						
	M	Z	28.9						
	M ₂	Z	21 44.0						
6	iPS	N	22 10 08						USCGS: Sandwich Island Region.
	eL	N Z	16.0						
7	eP	Z	17 59 18						USCGS: Kurile Island. M = 6 - 7
	ePP	N V	59 27						
	iX	E	18 08 47						
	e(SP)	N	09 16						
	eX	Z	10.0						
	e(SS)	NEZ	15.4						
	iX	E	24 20						
	i(G)	N	27 24						
	eL	N Z	34.0						
7	i(P)	V	19 12 31				-		USCGS: Sandwich Island.
	eX	Z	23 57						
	M	N Z	32.7						
8	i(P)	V	07 04 11						
10	iP	V	00 23 14				-		
10	iP	EZV	00 34 57			-	+		USCGS: South Island of New Zealand. h about 54km
	e(PcS)	E	40 15						
	i(S)	NE	41 08						
	eL	NE	44.0						
10	iX	V	04 39 03						
	eL	Z	04 51.7						
10	eLr	Z	06 14.2						USCGS: Fox Islands, Aleutians
11	eX	V	04 38 00						
11	eL	Z	05 27.5						USCGS: New Guinea.
11	iX	V	06 45 39						
11	eL	Z	07 40.6						USCGS: Near North Coast of New Guinea.



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>MAY (continued)</u>		h. m. s.	s.				km	
11	ePKP V	14 30 58						USCGS: Near Coast of Mexico.
	iPP (N)EZV	32 57						M = 7 - 7 $\frac{1}{4}$
	iSKP (E)Z	34 09						
	iPKS NE	34 17						
	i(SKS) N Z	37 38						
	e(SKS) NE	38 01						
	e(SKKS) NE	39 47						
	iPS Z	39 51						
	i(PSP) E	43 00						
	i(PPS) N	44 36						
	i(PPS) E	44 44						
	iSKKS N Z	47 41						Long path.
	eSS N	49.2						
	eSS E	49 44						
	e(PKP,SKS) NE	52 40						
	iSSS NE	54 36						
	eSSSS N	58 18						
12	eX V	12 42 26						
	iX V	42 59						
12	eX V	19 45 04						
12	eX V	20 57 53						
	eX V	58 31						
13	i(P) V	10 51 12						
	iX V	51 25						
13	iX V	14 30 41						
	eL Z	35 26						
13	eX V	20 33 23						
13	eP V	01 32 37						
15	eL Z	01 10.6						
15	i(P) V	02 27 03						
15	eX V	02 58 17						
	iX V	58 43						
15	iP Z	05 33 51		-	(-)	+		USCGS: Banda Sea.
	ipP V	34 02						M = 7 - 7 $\frac{1}{4}$
	iX N	34 14						
	i(PcP) V	34 46						
	iPP N Z	36 00						
	iX E	38 00						
	iX V	41 36						
	iX N	41 50						
	iS V	41 57						
	M Z	59.0						
	ePKP,PKP V	06 03(20)						
15	iP V	06 53 07						USCGS: Banda Sea.
15	iP V	10 05 22						USCGS: Banda Sea.
15	eS N	17 12.0						USCGS: Banda Sea.
	eL NEZ	22.2						
16	eLr Z	05 47.6						USCGS: New Hebrides.
16	eP V	17 43 42						USCGS: New Hebrides.
	eLr N Z	18 03.4						
17	iP V	02 27 36						USCGS: Near Coast of South Island, New Zealand.
	isP V	27 56						
	eL N	39.5						



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
MAY(continued)		h. m. s.	s.				km	
17	eX V	02 51 23						USCGS: South Pacific Ocean.
17	eP V	04 17 20						
	eLr NEZ	32.1						
17	eiP V	16 10 04						USCGS: Sandwich Island.
	eLr NE	26.7						h about 23 km
17	iX V	17 09 46						
	iX V	09 59						
17	iX V	21 28 00						
18	eL N	23 12.0						
19	(eP diff.) Z	15 14 09						USCGS: Near Coast of
	iPKP Z	17 16						Mexico.
	eX E	18 56						M = 7 - 7 $\frac{1}{4}$ h about 20km
	iPP N Z	19 19						
	iX Z	19 47						
	eX Z	20 32						
	iX N	20 36						
	iX Z	21 30						
	eSKS NE	24 24						
	iSKKS NE	26 06						
	iX N	28 53						
	iPS E	29 17						
	iX Z	29 28						
	eX E	30 37						
	eX N Z	30 47						
	eX N Z	30 53						
	eX N	34 04						
	iSS NE	36 31						
19	iSSS NE	15 39 02						
	eX N	40 59						
	eSSSS N(E)	44 48						
19	eX V	16 59 56						
19	iX V	19 36 52						
20	eX V	04 00 43						
	iX V	01 01						
20	eX V	17 39 05						
20	eX V	23 36 15						
21	iP diff. Z	12 16 57						USCGS: Chinghai Province.
	iPP N Z	21 10						M = 6 $\frac{2}{3}$ - 7 $\frac{2}{3}$
	iSKS N	27 31						
	eScS E	28 36						
	esP N	29 45						
	isP Z	30 11						
	isP E	30 28						
	iPPS N Z	31 19						
	eSS E	35 49						
	iSS Z	35 59						
	iSS N	36 07						
	e(SSS) Z	39 57						
	eX Z	43 09						
	eLq E	46.0						
	eLr N Z	53.0						
	M	13 02.5						



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
MAY (continued)		h. m. s.	s.				km	
21	iP	Z	21 25 34		+	-		USCGS: Fiji Is. h about 379km.
	i(pP)	Z	26 20					
	i(sP)	EZ	27 09					
	iS	NE	33 37					
	e(SP)	Z	33 48					
	e(sS)	N	35 08					
22	e(S)	NE	04 55 35					
	eL	NE	58 43					
	iX	Z	59 30					
	M	NE	05 02.8					
22	iP	NEZ	08 17 09	-	-	+		USCGS: Santa Cruz. h about 151km.
	i(pP)	Z	17 36					
	e(sP)	N	17 52					
	eS	N(E)Z	25 40					
	e(sS)	N	26 20					
	e(ScS)	N	27 10					
	eX	Z	27 18					
	eSS	E	30.1					
	M	Z	38.1					
22	eX	V	16 05 32					
22	e(P)	V	22 14 29					USCGS: New Britain. h about 100km
	eX	Z	15 46					
	e(S)	(N)E(Z)	23 07					
	M ₁	Z	41.3					
	M ₂	Z	43.1					
23	iP	V	08 28 22.5					USCGS: Kermadec. h about 363km
23	iP	V	20 52 24					USCGS: About 1200 miles South of Australia. H = 20 48 03.3
	eL	N Z	56 41					
23	eP	N Z	21 08 29					USCGS: About 1200 miles South of Australia. H = 21 04 19.1
	iPP	V	08 31					
	eL	N	12 37					
	eL	Z	12 44					
24	iX	V	02 35 52					
	iX	V	36 06					
	eL	Z	46.0					
24	eX	V	03 00 10					
25	iP	V	04 30 14					USCGS: Tonga. h about 281 km
	eScS	N	39 06					
26	iP	V	10 01 53					
	eL	N	24.8					
27	eP	V	13 28 12					
27	iP	V	14 39 12					USCGS: Kerguelen.
	eL	N	45.5					
27	eP	V	16 38 46					
	iX	V	39 02					
27	eX	V	23 30(39)					
28	eL M	N	03 45.5					USCGS: Bismarck Sea.
28	eX	V	08 37 36					
	iX	V	37 51					



Date 1962	Phase		Time (G.M.T.)	Per.	Amplitude			Remarks
					A _N	A _E	A _Z	
MAY (continued)			h. m. s.	s.			km	
29	eL	Z	00 42.2					
29	eLr	Z	22 31.5					USCGS: Easter Island Region.
30	eLr	Z	11 11.1					USCGS: North Atlantic Ocean. M = 5
31	iP	ZV	06 41 04					USCGS: Volcano Islands Region. M = 6 $\frac{1}{2}$ h about 257km
	ipP	V	42 08					
	iSKS	NE	51 10					
	iSP	NEZ	52 45					
	iSS	E	57 47					
31	eiP	V	08 46 56					USCGS: Kermadec.
	eL	N	09 07.6					
31	iP	V	21 30 51					
	ipP	V	31 02					
JUNE								
2	eiP	V	13 30 47					
	iX	V	31 02					
2	iX	V	17 28 21					USCGS: Kyushu.
	iP	V	28 35					
	eSS	N	46 40					
3	i(P)	V	04 29 43					
3	eP	V	07 40 52					
3	iPKP	V	15 21 36					USCGS: North Atlantic Ocean.
	ePP	V	24(27)					
	eLr	EZ	16 04.8					
3	eL	Z	20 35.7					
4	e(P)	V	02 41 26					
	i(pP)	V	41 40					
4	e?	V	04 13 40					
4	e ?	V	20 04 22					
	eX	V	05 43					
5	iP	V	13 30 08					
5	iP	V	16 53 43					USCGS: Banda Sea. h about 124km
	ipP	V	53 59					
	eG	E	17 08 07					
5	iP	V	19 31 14					
	iX	V	31 20					
	iX	V	31 34					
5	eX	V	20 59 32					
6	eX	V	15 47 44					
	iX	V	48 16					
	iX	EZ	49 35					
8	eX	V	01 39 46					
8	iP	V	01 41 48					USCGS: Fiji Island. h about 603km
8	e(PP)	V	19 29 17					USCGS: Timor Sea



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
JUNE (continued)		h. m. s.	s.				km	
8	iP V	20 58 43				-		USCGS: Sandwich Island.
	i(pP) V	58 53						
	eLr NE	21 14.7						
	eL Z	18.0						
10	eL EZ	13 45.1						
10	eL EZ	16 44.1						
11	i(P) V	06 17 20						
	i(pP) V	17 34						
11	eLr Z	08 17.5						USCGS: Yugoslavia. M = 5 - 5 $\frac{1}{4}$
11	eL Z	18 47.2						
13	i(P) V	18 18 40						
	i(pP) V	18 53						
14	eX V	08 11 24						
	eX V	15 33						
	eX NE	30 27						
	e(G) N	44.0						
	eL N Z	52.3						
14	eX V	22 27 37						
15	i(P) V	06 43 50						USCGS: Near Coast of Northern Chile. M = 5
	e(S) V	55 00						
16	iP V	06 38 06				+		USCGS: Celebes Region. h about 177km
16	eX V	15 30 38						
16	e ? V	20 31 33						
	iX V	31 56						
17	iP V	04 35 48						USCGS: Indian Ocean. North of Crozet Island.
	iX V	36 01						
	e(S) EZ	42 20						
	eL N	45.8						
	eLr Z	47.7						
17	iP V	06 04 15						
	iX V	04 28						
17	e(P) V	13 33 07						USCGS: Santa Cruz. h about 106km
	iX V	33 14						
18	eP V	21 17 14						
18	iP ! ZV	23 53 24				+		USCGS: New Britain Region. M = 6 $\frac{3}{4}$ h about 47km
	i(pP) V	53 43						
	iX V	54 09						
	eX V	55 07						
	iS E	00 02 10						
	iX N	02 21						
	iX N	02 54						
21	eLq E	05 32.9	54					USCGS: South of Panama. M = 6 $\frac{1}{4}$
	eLr N Z	43.0						
21	M N Z	23 25.0						USCGS: Tanimbar Island.
23	iP ZV	09 57 47						USCGS: Ryukyu.
	iPP Z	10 01 29						M = 5 $\frac{3}{4}$
	iSKS N	08 17						
	iX V	11 20						
	iLq E	21 33						



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>JUNE (continued)</u>		h. m. s.	s.				km	
23	M N	15 49.7						USCGS: Near Coast of Chile. Felt.
24	M Z	02 08						USCGS: Yunnan, China.
25	M N	07 07						USCGS: Chile.
25	iP V	11 23 28				-		USCGS: Off Coast of Formosa.
	ipP V	23 41						
	e(S) N	33 51						M = $5\frac{1}{2}$ - $5\frac{3}{4}$
	iX EZ	34 09						
	eX N Z	35 21						
	eSS N(Z)	39.8						
27	iP V	03 40 41						
	eX N	49.4						
	eL N	04 03.0						
27	iP NEZV	13 42 55		-	+	(+)		USCGS: Indian Ocean South West of Australia.
	iS Z	46 40						
	eL Z	46 59						
	M Z	48.1						
27	eL NEZ	16 02.0						
	eX V	16 04 35						
	eX	49						
27	iP V	20 00 12						
	eX V	46						
28	eLr EZ	05 17.5						USCGS: Hawaii Island. M = $5\frac{1}{4}$ - $5\frac{3}{4}$
28	iP V	19 01 14				+		USCGS: Northern Celebes.
	epP V	31						
	eLq EZ	18.0						
29	eLr Z	03 55.3						USCGS: Sth. Sandwich Is.
29	eP V	13 59 12						USCGS: Banda Sea.
	eL Z	14 20						h about 80 km
29	ePKP diff. ZV	16 47 40						USCGS: Alaska.
	ePKP V	47 46						M = $4\frac{3}{4}$ - 5
	eL(r) Z	17 40						
29	iP V	21 04 25						USCGS: South Indian Ocean.
	e(S) E	09 22						
	eLq NE	10 42						
29	e ? V	21 29 26						
30	e(P) V	07 12 25						
30	iP V	08 50 35						
30	eX V	14 44 33						
	iX V	44						
30	eS E	19 52 29						USCGS: Near Coast of Luzon, Philippine Islands.
<u>JULY</u>								
1	iP V	13 46 14						USCGS: Tonga Is. Region.
	eX V	47 06						h about 65km
	iX V	47 10						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
JULY	(continued)	h. m. s.	s.				km	
1	e ?	V	18 28 05					
	e ?	V	28 29					
1	iX	V	19 47 23					
	eL	Z	20 25					
1	eL	NEZ	22 19.8					
2	iP	EZV	08 43 23		-	+		USCGS: Santa Cruz Island.
	i(pP)	EZV	43 48					M = 6 $\frac{1}{4}$
	iX	V	44(15)					
	iS	NE(Z)	52 08					
	isS	E(Z)	52 50					
	eX	N	53 36					
	eSS	Z	56.1					
	eL	NEZ	09 00.0					
2	eX	V	15 15 56					
	iX	V	16 10					
2	eX	V	17 02 09					
	iX	V	02 23					
2	eX	V	17 12(15)					
	iX	V	12 25					
	iX	V	12 29					
3	i(S)	NE	18 28 49					USCGS: 56.3S 142.3W
	eLq	N Z	32.3					Grenet not recording.
4	iX	V	06 12 44					
	iX	V	13 11					
	iX	V	15 27					
4	iX	V	17 57 26					
5	eL	Z	12 17.9					
5	eL	Z	18 33.6					USCGS: South of Honshu, Japan.
6	oS	E	02 35 24					USCGS: Arabian Sea.
	eL	N	47.8					
	eLr	EZ	52.1					
6	i ?	V	04 34 01					
6	iX	V	04 51 33					
6	eLr	Z	10 15.1					USCGS; Ionian Sea.
								M = 5
6	iX	V	10 26 06					Timing fault 1224 -1316 Z
6	iP	V	13 15 16			-		{ Absolute time in doubt by about \pm 5 sec., but interval is reliable.
	ipP	V	15 30					
6	i(P)	V	14 57 09					
6	ePP	V	19 03 52					USCGS: Kenai Peninsula, Alaska.
	iX	V	04 10					
6	i ?	V	21 31 04					
6	i ?	V	22 59 19			-		USCGS: Hindu Kush, Afghanistan. h about 203 km
6	i(P)	NEZV	23 20 20					
	iX	NEZV	23 50					
	iX	E	24 36					
	iX	N Z	24 42					
	iX	NEZ	29 43					



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
JULY	(continued)	h. m. s.	s.				km	
6	iS E	23 31 03						
	eX E	32 40						
	iX EZ	32 44						
	eX V	32 47						
	eX Z	34.1						
	iPKKP V	35 10						Long path.
	eSS E	38 31						
7	eP V	01 35 30						In Coda of previous.
	ipP V	35 57						
7	ePKP V	06 31 47						USCGS: Rat Island, Aleutian Island.
	iX V	32 00						
	e(SS) NEZ	50.7						
7	eP V	10 22 54						
	ipP V	23 08						
7	iP V	11 57 26						USCGS: Banda Sea.
	M Z	12 19.1						
7	e ? V	15 14 10						
8	eP V	04 13 28						USCGS: Sandwich Island.
	eLq E	28.0						
9	eX V	08 52 18						
9	e(P) V	09 47 33						
	e(pP) V	47 46						
9	eX V	11 48 27						
	eX V	48 41						
9	eL Z	14 09 16						
	eL N	34.1						
	eL Z	35.7						
9	iP V	16 27 41						
	ipP V	27 56						
10	iP V	05 21 40						USCGS: Fiji Island. h about 584km
10	iX V	07 18 17						
10	iX V	09 20 02.5						
11	iP V	12 52 28						USCGS: Panay, Philippines.
	eS N	13 02.3						
12	M Z	23 35.5						USCGS: South Pacific Ocean, 33.9S 104.1W .
13	iP ZV	03 43 40						USCGS: Panay, Philippines. h about 157km
	ipP ZV	43 52						
	iPP ? V	46 38						
	iS N	53 21						
	eSS N	58 19						
								No records July 14th.
15	iP V	15 28 05					+	Long period record unreadable.
16	eX E	02 09 24						Z not recording.
	eP NE V	09 30						USCGS: South of Tasmania.
	iX V	38						
	iS NE	13 09						
	eX V	13 34						
	M N	15.0						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
JULY	(continued)	h. m. s.	s.				km	
15	iP	V	06 10 22					
	epP	V	35					
15	iP	V	08 36 16			+		
15	iPKP diff.	ZV	13 14 16			+		USCGS: Alaska.
	iPKP	V	14 21					
	iX	V	14 46					
15	eP	V	16 28 21					USCGS: 550 miles South of Easter Islands. h about 25km
15	e ?	V	16 39 08					
17	iP	ZV	05 43 25			-		USCGS: Near Coast of Chile.
	i(pP)	V	43 35					
	eX	V	43 40					
	e(PcP)	V	43 50					
	i(S)	NE	52 44					
	M	Z	06 16.5					
17	eL	Z	08 46.2					
17	iX	V	11 35 19					
17	eP	V	15 35 22					
18	e ?	V	04 42 50					Resembles T phase.
	e ?	V	47 15					Resembles T phase.
18	iP	V	06 03 27			(-)		USCGS: Sunda Island, East Indies.
18	iP	V	10 22 53			-		USCGS: Mariana Island Region.
18	eP	V	12 52 10					
	i ?	V	52 24					
18	iP	V	18 54 30			-		
19	iP	V	01 03 09					USCGS: New Britain Region.
	eL	Z	27					
20	e(P)	V	17 21 52					
	iX	V	22 14					
	iX	V	24 46					
20	e(P)	V	18 13 26					
21	eP	V	03 24 10					
	ipP	V	24 27					
21	eL	NEZ	10 50.5					V under test. 0900 - 1200Z
21	eX	V	15 26 31					
	eX	V	27 11					
	eX	V	31 21					
21	eX	V	15 31 50					
21	eX	V	15 40 24					
	iX	V	40 47					
22	i(P)	V	00 32 35					V under test. 0046 - 0309Z
	e(S)	NEZ	40.9					USCGS: New Britain Region.
	eL	Z	53.5					h about 81km
22	e(P)	V	05 43 52					
	i(pP)	V	44 15					
22	iP	V	13 47 30			+		
	eX	V	48 15					
	eL	Z	14 08					





Date 1962	Phase		Time (G.M.T.)	Per.	Amplitude			△	Remarks
					A _N	A _E	A _Z		
JULY	(continued)		h. m. s.	s.				km	
23	eP	V	22 24 22						
	iX	V	24 39						
	iX	V	24 43						
23	iP	V	23 19 37						USCGS: New Hebrides.
	eLr	Z	39.7						h about 99km
24	iP	V	04 54 52						
	ipP	V	55 08						
24	iPKP	V	21 27 11						USCGS: Mexico-Guatemala Border
	i(pPKP)	V	27 40						Region.
	eLr	N Z	22 08.9						M = 5½ h about 129km
25	eX	V	04 56 02						USCGS: West of Jamaica.
	eX	Z	05 00 42						M = 5½ - 6
	eX	E	17 07						
	M	Z	05 50.9						
25	eP	V	11 00 29						
	epP	V	00 41						
25	iP	V	11 33 38						
	ipP	V	33 53						
26	eP diff.	Z	08 30.1						USCGS: South of Panama.
	eX	Z	33 13						M = 6¾ - 7
	ePKP	V	33 35						
	iPP	NEZV	35 04						
	ePPP	Z	38 07						
	iSKS	E	40 30						
	eSKKS	E	42 29						
	eSKKP	V	47 21						Long path.
	iSS	NE	51 44						
	eLq	NE	09 05.5						
	M	ZV	21.7	66					
	Q ₂ Max.	E	09 57	60					
	Q ₃ Max.	NE	11 38	122					
	Q ₄ Max.	E	12 28	190					
26	iP	V	21 41 38						USCGS: Sandwich Island Region
	eLr	NE	59.4						
27	e ?	V	04 33 22						
	i(P)	V	33 29						
	i(pP)	V	33 43						
27	iX	V	06 04 40						
28	iP	V	00 16 23						USCGS: Samoa Island Region.
	iS	NEZ	25 29						Felt.
	eL	N	35 35						
28	iP	V	17 00 41						
	eX	V	23 45 16						
	eX	V	45 27						
	eL	N	55.0						
29	eP	V	08 09 03						
	i(pP)	V	09 13						
	iX	V	18						
29	iX	V	15 42 47						
29	iP	V	16 03 35						
	ipP	V	03 48						
29	iP	V	16 31 56						
	ipP	V	32 10						
29	iP	V	18 27 34						USCGS: South Island of New Zealand. M = 6¾ - 7

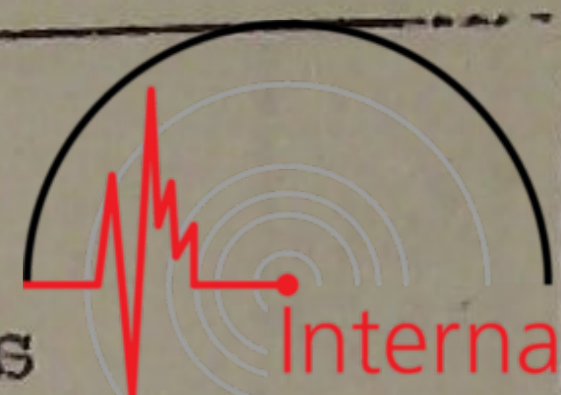
Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
<u>JULY (continued)</u>		h. m. s.	s.				km	
30	eX V	09 39 26						
	iX V	39 43						
30	eL Z	16 27.5						
30	iP V	17 27 37				+		USCGS: Near North Coast of
	iX N(E)Z	27 40		+		-		New Guinea.
	iX V	30 54						
	iS NE	36 30						
	iSP Z	36 51						
	iLq NE	44 15						
	e(PKPPKP) V	56 09						
	L Max. Z	56.9						
	iQ ₂ NE	19 18.3						Period at Maximum.
30	ePKP V	20 37 24						USCGS: Western Columbia.
	eX N	38 33						M = 6 - 6 $\frac{3}{4}$
	iPP V	38 54						
	eX V	39 35						
	e(SKP) V	41 27						
	iSKS NE	44 21						
	iX NEZ	46 37						
	iSP NE	48 31						
	iX NE	49 20						
	iSS NE	55 11						
	iLq E	21 06 44						
	iLr N Z	15 52	43					Period at Maximum.
	iLr ₂ N Z	22 13.1	62					Period at Maximum.
31	eP V	02 30 01						USCGS: Near North Coast of
	eL Z	51.8						New Guinea.
31	iP V	05 25 40				+		USCGS: Near North Coast of
	eX Z	36.1						Luzon, Philippine Islands.
31	iP V	08 22 50						
	ipP V	23 05						
31	eX V	17 36 01						
31	iX V	22 00 51						
<u>AUGUST</u>								
1	i(P) V	03 26 09						
1	iP V	03 59 08						USCGS: Kermadec.
1	iP N ZV	04 47 48				+		USCGS: Near North Coast of
	iPP V	50 16						New Guinea. Felt.
	iS N(Z)	56 41						M = 6 $\frac{1}{2}$ - 7
	iX E	56 48						
	iSS (N)E(Z)	05 01 07						
	i(SSS) E	04 08						
	iLq N	04 23						
	iLr Z	07 51						
	ePKPPKP V	05 15 51						
	M Z	16.0						
1	e(P) V	12 35 43						
1	iP V	12 57 42				-		USCGS: Kermadec.
	ipP V	57 54						
1	eP V	23 18 44						
	ipP V	19 00						



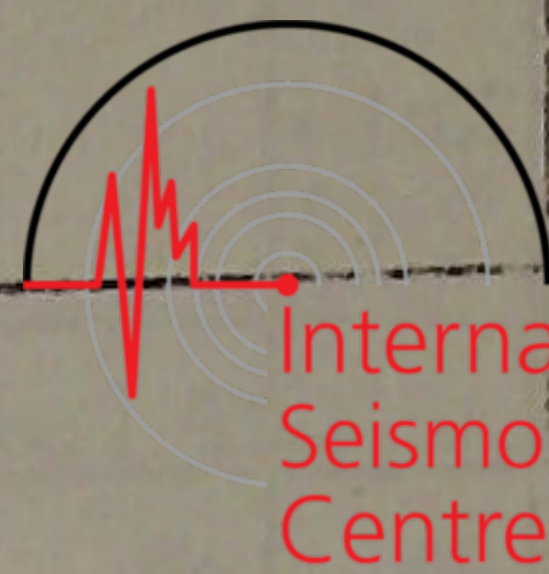
Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
AUGUST (continued)		h. m. s.	s.				km	
2	iP	V	02 29 01			-		Long period microseisms.
2	iP	V	03 29 58					
	epP	V	30 10					
2	eX	V	05 55 56					
3	iP	N Z	09 09 11	-7		-28.5		No record on Grenet.
	iPP	N Z	12 45					USCGS: North Chile, Argentina
	eX	Z	18 38					Border. Felt. M = 7
	iS	N	19 53					h about 71km
	iX	NE	19 57					
	iX	EZ	20 52					
	eSS	NE	25 56					
	eLq	E	33.0					
4	iP	V	05 51 26					
	ipP	V	51 40					
4	eX	V	15 44 01					
4	eX	V	16 30 06					
5	eLr	Z	10 19					USCGS: Novaya Zemlya. h about 0km
5	e(P)	V	15 19 04					USCGS: New Hebrides.
	eL	N Z	39.0					h about 60km
5	eP	V	16 27 28					
	e(pP)	V	27 43					
6	ePKP	V	01 55 02					USCGS: North Atlantic Ocean
	ePcPKP	Z	02 03 53					M = 5½ - 6 h about 41km
	e(SS)	NE	16.7					
	eX	Z	21 51					
	eL	NEZ	41.4					
	M	Z	48.0					
6	iP	V	04 27 49					
	ipP	V	28 02.5					
6	iP	V	06 00 17					
6	eP	V	07 44 02					
	ipP	V	44 14					
6	iP	V	08 50 19					USCGS: Sandwich Islands.
	epP	V	50 35					
	e(sP)	V	50 42					
	i(S)	N	57 35					
	eL	E	09 04.6					
6	eX	V	12 35(06)					
6	iP	EZV	21 01 49		-	+		USCGS: Kermadec.
	iX	V	01 52					M = 5½ - 6 h about 50km
	i(sP)	(E)Z	02 11					
	ePcS	E	06 39					
	iX	E	09 40					
	iS	N	09 45					
	eX	Z	09 48					
	eSS	EZ	13.5					
	eLq	N	15.5					
	eLr	EZ	19.3					
7	NIL.							
8	iP	V	04 09 02					
	ipP	V	09 16					



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
AUGUST (continued)			h. m. s.	s.			km	
8	eP ipP	V V	16 06 56 07 10					
11	eX	N	00 02.6					
11	iP ipP iS	EZV V NE	01 57 13 59 24 02 05 03					USCGS: Fiji Islands. h about 638km
11	iP e(PP) iS iX	ZV N Z E E	08 28 36 32 51 39 20 40 16			-		USCGS: Off North East Coast of Formosa. M = 5 - 6 h about 140km
13	eLr	N	07 25 $\frac{1}{2}$					USCGS: Ecuador. M = 5 $\frac{1}{2}$ - 6. Poor quality record.
14	iP iS iX iL M	E V N E N(E) Z	01 17 07 22 12 22 20 23 52 28.6					USCGS: About 300 miles North of Macquarie Island. h about 43 km No record Z component.
14	eX	V	07 32 16					
17	e(pP) eS e(SS)	V N N	05 16 32 26 10 30 39					USCGS: Panay, Philippine Is.
18	i ?	V	13 35 15					
18	i(P) eX	V V	17 03 30 03 42			-		USCGS: Central Alaska. M = 5 $\frac{1}{4}$ - 6 $\frac{1}{4}$
18	ePKP iPKP	V ZV	18 05 49 05 56					USCGS: Central Alaska. M = 5 $\frac{1}{4}$ - 6 $\frac{1}{4}$
19	eP	V	06 41 34					
19	eP	V	11 57 58					
19	eP ipP	V V	12 09 05 09 20					
19	ePKP ePP ePS M	V V NEZ(V) Z	18 45 12 46 04 18 55 47 19 25					USCGS: North West Sinkiang Province, China.
19	iP isP iX	ZV ZV V	23 25 35 25 56 26 03			-		USCGS: Near Coast of North Chile. h about 51km
20	eL	Z	23 50.0					USCGS: New Hebrides.
21	iP ipP	V V	08 32 52 33 06					
21	eP ? i(pP)	V V	09 00 28 00 42					
21	eP ipP	V V	15 38 24 38 39					
21	iP eL	V Z	16 19 54 41.8					USCGS: Kermadec Island Region
21	eP ipP	V V	17 11 09 11 32					
21	eLr	Z	19 15.1					USCGS: Italy.

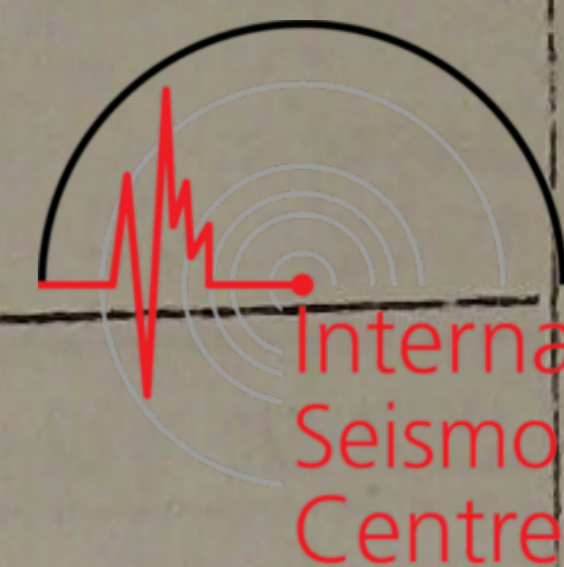


Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
AUGUST (continued)			h. m. s.	s.			km	
21	eP iX e(S) M	ZV V N Z	21 15 40 16 13 23 37 40.9					USCGS: Kermadec.
21	eP iX iX eX eX eLq M	Z V V E N Z NE Z	21 21 53 57 22 05 30 53 31 55 43.0 51.6					USCGS: Easter Island Region. Long period, strongly disposed
22	e ? eL	V N Z	05 39 09 06 02					USCGS: Kermadec.
22	eP iX iL	N Z V Z	11 15 51 15 59 19 55					USCGS: About 1200 miles South West of Australia.
22	iP ipP	V V	18 28 53 29 07					
23	e(P) eX	V V	02 29 08 29 28					
23	eP ipP	V V	10 21 23 21 34					
23	iX	V	14 40 31					
23	iX	V	16 41 04					
23	eX iX	V V	19 35 13 35 38					
23	iP eLr	V N	21 02 13 18.8					USCGS: South Sandwich Island.
24	iP	V	06 56 18				+	USCGS: Fiji Island Region. h about 526km.
24	eP eS eSS eLq	V NE N NE	09 15 36 24 48 29 31 32.8					USCGS: Samoa Island Region. Felt. M = 5 $\frac{1}{4}$ - 5 $\frac{3}{8}$
24	eX	V	15 36 03					
24	iX	V	16 02 29					
24	eX eX	V V	17 04 18 04 32					
24	eX eX	V V	21 05 11 05 26					
25	eP ipP	V V	02 26 17 26 30					
25	eX	V	07 57 22					
25	iP e(pP) e(ScP) iS iX iSS iX oPKPKP oP ipP	EZV (Z)V V NE V NE N(E) (N)E V V V	08 41 26 43 19 45 42 49 17 50 23 52 39 56 44 09 10 08 15 38 41 39 16				(-) + - + (+)	USCGS: Fiji Island. h about 561km Long path.

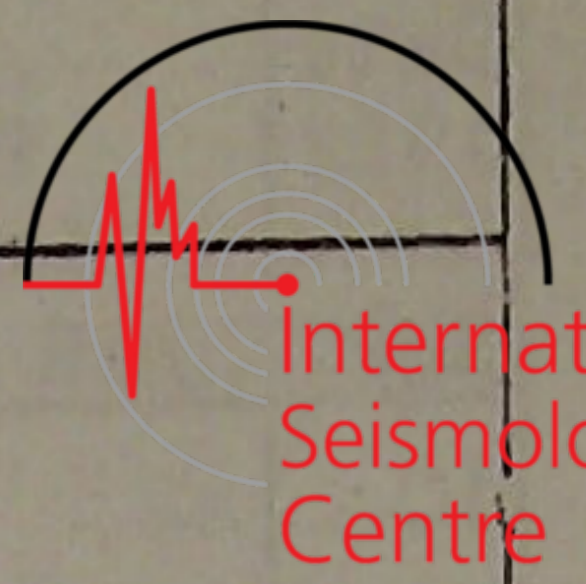


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Date 1962	Phase	Time (G.M.T.)	Per	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>AUGUST (continued)</u>		h. m. s.	s.				km	
25	eP ipP	V V	18 04 39 04 43					
26	iX	V	05 05 37					
26	eSS eL	N Z Z	07 21.9 37					USCGS: Near East Coast of Honshu, Japan.
26	iX	V	19 02 48					
26	iP eLq	V E	23 41 20 59.0					USCGS: New Guinea. h about 50km
27	NIL.							
28	ePP eSP eSS e ? eL	EZ Z NEZ N EZ	11 20 30 36 54 51.0 58.1					USCGS: Greece. Felt. h about 120 km. M = $6\frac{3}{4}$
29	NIL.							
30	iP eL	V Z	13 55 07 14 46.5				(+)	
30	iP epP	V V	16 02 28 02 42					
30	iP iS M	ZV N EZ	17 28 29 37 15 54				(+)	USCGS: Tonga. M = $5\frac{1}{2}$
31	e ? e ?	V V	07 06 03 06 15					
31	eP eS eL(q)	V E N	10 44 36 53 38 11 01.6					USCGS: Fiji Island Region.
31	eX	V	13 27 58					
31	eX	V	15 51 21					
31	ePKP eSS M	V NE EZ	17 21 48 41.2 18 14.0					USCGS: Rat Island, Aleutians. H = 17 02 43.4 M = $6 - 6\frac{3}{4}$
<u>SEPTEMBER</u>								
1	ePKP e(SKP) eSS eX M	V V (N)E NEZ Z	04 05 09 08.7 24 37 29.3 57.0					USCGS: Rat Island, Aleutians. H = 03 46 05.0 M = $6 - 6\frac{1}{2}$
1	eP iX iX e(S) i(S)	V EZV ZV V NEZV	05 02 15 02 16 03 31 10 21 10 26					USCGS: New Hebrides Islands. h about 244km
1	e(SKP) eSS M	V N N	08 13 30 30 08 58.5					USCGS: Rat Island Aleutians. H = 07 51 08.2
1	eLr	Z	09 48.8					USCGS: Rat Island, Aleutians. H = 08 47 06.9



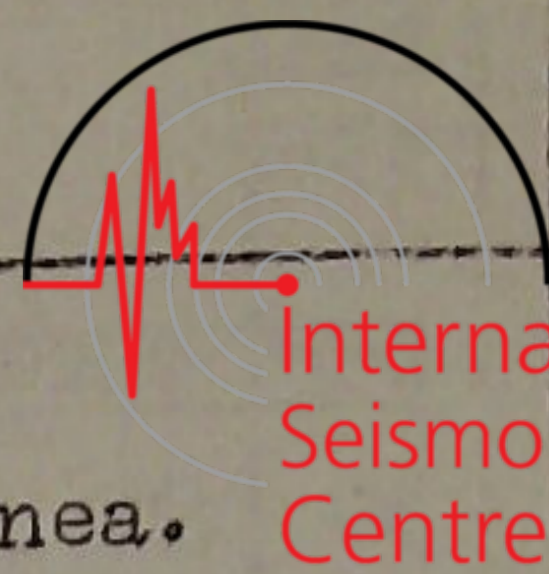
Date 1962	Phase	Time (G.M.T.)	Per	Amplitude			△	Remarks
				A _N	A _E	A _Z		
SEPTEMBER (continued)		h. m. s.	s.				km	
1	eP V ipP V	13 55 40 55 55						
1	eLr EZ	15 49						USCGS: Off Coast of West Pakistan.
1	iP (diff.) Z i(PP) NEZV iSKS (N)E iX N i(SP) Z iSS NEZ iG N(E)	19 35 16 39 52 45 55 47 57 49 17 55 51 20 06 24						USCGS: Northern Iran. h about 21km M = 7 - 7 $\frac{1}{4}$
2								No Grenet record 2nd.
2	e(S) N eL E	15 39 24 50.4						USCGS: Soemba Island Region.
2	eL NE	20 39						USCGS: Off Coast of North Island, New Zealand.
3	NIL.							
4	iP V ipP V	00 52 50 53 05						
4	eP V ipP V	09 29 02 29 16						Noise on V maximum 0608.3
4	eL Z	17 45.1						
4	eL Z	23 55.1						USCGS: Turkey Armenia Border: Felt. N, E, Z on Test.
5	iP V ipP V	11 27 44 28 07						USCGS: New Guinea. h about 110km
5	e ? V iX V	19 10 20 10 35						
6								No N record.
6	eP V eLq E eLr Z	11 21 17 36 40.5						USCGS: Ceram Sea.
7	NIL.							
8	iP V epP V	00 14 19 14 35						
8	eLr Z	07 54						USCGS: Loyalty Islands.
8	eX V iX V	08 35 25 35 40						
9	eP V ipP V	07 52 20 52 37						
10	eL Z	10 36						USCGS: Dodecanese Is.
10	eX V iX V	11 25 37 25 49						
10	eiP ZV epP ZV eX E V iS N ZV iX E isS NE eX NEZ ePKPPKP V	15 53 26 55 26 16 01 06 16 01 08 02 14 04 39 08 36 16 22 10						USCGS: Fiji Is. M = 6 $\frac{1}{2}$ h about 640km.



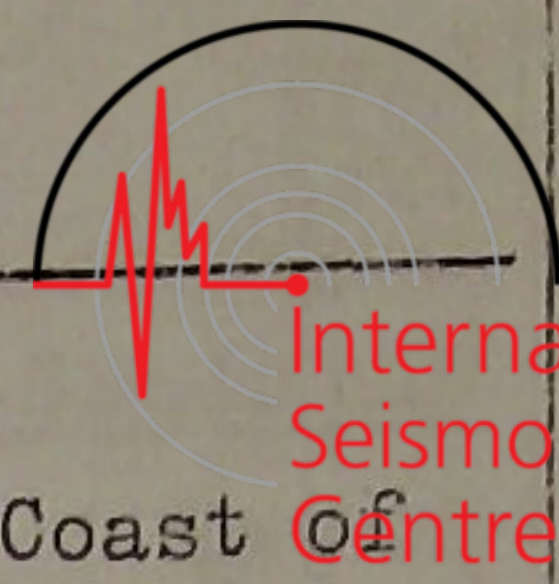
Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
SEPTEMBER (continued)		h. m. s.	s.				km	
10	eP V	18 00 15						USCGS: Tonga Island Region.
11	NIL.							
12	eP V eLr NE	18 29 34 47.1						USCGS: Near North Coast of New Guinea: Felt.
12	eX V	20 05 27						
12	e ? V e?SKS N ePS NE eSS N eLq E eLr N Z M EZ	21 10 28 22 07 25 09 30 57 41 39 47.5 52.5						USCGS: Hindu Kush. M = 6½ h about 50km.
13	NIL.							
14	NIL.							
15	i(PKP) V eX Z(V) e(SP) Z eX NE iSS N(E)(Z) eX NEZ M N Z	23 09 34 10 55 20 41 21 04 27 36 31(44) 59.7						USCGS: Kurile. M = 6 - 6½
16	eX E eL E	14 05 49 10						
16	eLr Z	19 47.2						USCGS: Near Coast of Burma. No N, E, Z records.
17								
17	iX V	02 32 12						
17	iP V e(pP) V iX V	18 05 14 07 14 07 20						USCGS: Fiji. h about 601km
17	e ? V	23 04 20						
18	e(PKP) V iX V e(PP) N Z i(SKS) E eX ZV i(SS) E e(Lq) E eX V	00 48 02 48 29 49 40 55 18 01 01 42 06 04 17.0 03 24 11						USCGS: South of Panama: Felt. M = 6½ - 7
18	iP V i(S) N	06 21 33 30 39						USCGS: Molluca Passage.
18	eP V ipP V	08 08 14 08 29						
18	e(P) V eL(r) Z	21 57(50) 22 18.7						USCGS: Fiji. h about 526km
19	eX V	02 30 21						
19	eL Z	08 29.5						USCGS: Mariana Is. Region.?
19	eL Z	12 14.4						USCGS: Novaya Zemlya Is. Arctic Ocean.
19	M Z	18 37.6						USCGS: Soemba Island.
20	eX V iX V	13 38 06 38 20						



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
SEPTEMBER (continued)		h. m. s.	s.				km	
20	eP V	16 49 02						USCGS: West New Guinea.
	eL(r) E	17 08.2						
	eL Z	14.4						
21	eX V	21 09 41						
21	iP V	22 48 29						USCGS: Drake Passage.
	eS NE	56.2						h about 51 km
	e(SS) N	23 00 14						
	M Z	15.0						
22	iP V	07 04 42						USCGS: Northern Burma.
	eX NE	15 15						
	eX N Z	17 05						
	e(SS) Z	22 08						
	eLr Z	35.0						
22	eL Z	15 31.3						
23	eX V	09 51 30						
23	eX V	15 29 43						
24	NIL.							
25	e(P) V	00 30 17						USCGS: South Pacific Ocean.
	e(S) NE	37 36						h about 67km
	eLq E	41.0						
25	eL Z	07 12.4						
25	iP V	15 01 58						USCGS: Marianas Islands.
25	iX V	21 29 41						
26	eX V	01 34 20						
26	iP V	12 54 40						USCGS: Kermadec.
26	iP V	12 58 29						
26	eL Z	13 12 36						
27	e ? E	07 07 56						
	e ? EZ	13.1						
27	iP V	13 06 23				+		USCGS: South Sumatra.
								h about 144km
27	eP V	18 37 49						USCGS: New Ireland Region.
	eLr Z	59.1						
28	eP V	02 22 55						
	ipP V	23 09						
28	iP V	10 34 35						
	ipP V	35 01						
28	eSP Z	19 25 37						USCGS: Western Columbia : Felt.
	eSS E	32 23						h about 127km
29	iP N ZV	15 29 32				-		USCGS: Argentina.
	epP N Z	31 34						h about 575km. M = $6\frac{1}{4}$ - $6\frac{1}{2}$
	eX Z	34 31						
	iS NE	39 05						
	iSP Z	39 28						
	eX N Z	40 27						
	esS E	42 59						
30	eP V	10 59 07						USCGS: New Britain : Felt.
	eL Z	11 23.5						H = 10 48 10.3



Date 1962	Phase		Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
					A _N	A _E	A _Z		
SEPTEMBER (continued)			h. m. s.	s.				km	
30	iP ipP	V V	22 09 57 10 11						USCGS: Near North Coast Luzon: Felt. h about 51km.
OCTOBER									
1	eL eP ? epP ?	Z V V	01 30.5 02 51 35 49						
1	iP ipP	V V	04 06 48 08 40						USCGS: Fiji. h about 550km
1	i ?	V	07 48 24						
1	eX	V	08 54 17						
1	eP eX eL	V N NE	10 07 17 15.7 22.6						New Hebrides Island.
1	M	NEZ	13 03						USCGS: Southern Iran. h about 17km.
1	eL eL	N Z	14 53.3 54.5						
1	M	E	15 42.5						USCGS: New Britain: Felt.
1	e(P)	V	20 53 11						USCGS: Fiji. h about 43km
1	i(P)	V	22 11 03						
2	eP	V	06 45 45						
3	ePKP e(P)P	V V	01 36 22 38 57						USCGS: Azores. H = 01 16 46.7 USCGS: Azores. H = 01 19 22.5
3	eP ipP	V V	05 04 17 04 31						
3	eP epP	V V	16 49 39 57						
3	eX	V	18 02 03						
3	eP M	V N	18 58 03 19 15.3						USCGS: Sandwich Island.
4	eLr	Z	21 07.1						USCGS: Bismarck Sea.
5	eP ipP	V V	03 29 43 29 57						
5	eX	V	03 37 32						
5	ePKP	V	04 34 19						USCGS: Azores. H = 04 14 39.1
5	eX	V	17 26 33						
5	eX eL	V Z	23 44 26 48.8						
6	iPKP	ZV	03 36 44						USCGS: Azores. H = 03 17 07.2
6	iPKP	V	04 14 37						USCGS: Azores. H = 03 54 58.3



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
OCTOBER (continued)		h. m. s.	s.				km	
6	eP iS iX eX iLq M	NEZV NEZ E N(E)Z NE NEZ	04 33 38 41 58 43 24 45 52 48 47 55.2					USCGS: New Henrides. H = 04 23 24.1 well recorded surface waves.
6	eP i(pP)	V V	05 51 42 51 57					USCGS: Ryuku. h about 122km. In coda of previous.
6	e(P) iX	V N	08 06 35 14 54					USCGS: New Hebrides. H = 07 56 20.4
6	eX eX eX	NE(Z) Z N	08 22 02 25 21 29.2					
6	e(P)	ZV	08 13 49					USCGS: New Hebrides. H = 08 03 31.7 Mixed with previous.
6	iP ipP iS	V V N	11 11 10 11 58 19 35			+		USCGS: New Hebrides. h about 209km
6	eP eLr	V Z	18 11 19 31.1					USCGS: New Hebrides.
6	eP	V	19 31 02					
6	iP	V	20 25 36					
6	eP ipP	V V	20 58 21 58 35					
6	eiP iS	EZV NEZ	23 41 39 49 58					USCGS: New Hebrides.
7	iP	V	00 59 15					
7	e(P) i(pP)	V V	14 55 40 55 57					
7	eX	N	17 17 11					
7	iP ipP	V V	19 09 16 09 29					
7	eX	V	23 20 10					
8	eX	V	03 15 18					
8	e(PKP)	V	05 33 59					USCGS: Azores. H = 05 14 20.4
8	eX	V	08 33 47					
8	eX	V	10 50 09					
8	iP ipP	V V	11 48 32 48 47					
8	iP ipP	V V	12 20 25 20 39					
8	iP iX eSKS iS e(SS) eLq eLr	ZV V N(Z) E Z E N Z	22 09 24 09 45 19 36 20 16 26.1 34.5 39.4					USCGS: Near East Coast of Formosa. M = 6 - 6 $\frac{1}{4}$



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
OCTOBER (continued)		h. m. s.	s.				km	
8	eP V	23 43 35						
9	iP V	01 12 19						Microseisms.
	ipP V	12 33						
9	iP ZV	20 25 38						USCGS: Bismarck Sea.
	iS N	34 32						M = $6\frac{1}{4}$
	iX E	34 38						
	iLq NE	42 16						
	M NEZ	53.1						
10	eL EZ	22 28.0						Microseisms.
								USCGS: Samoa. Felt.
11	NIL							
12	eL N	02 11.0						USCGS: Kermadec.
	eL EZ	14.3						
12	eT ? V	16 35.2						
	T max. ? V	38.4						
	T max. ? V	57.4						
12	M Z	17 36.6						USCGS: Near Coast of Northern Chile.
13	eL Z	11 19.0						
13	iP EZV	18 58 24						USCGS: Santa Cruz.
	eS E	07 03						
	eX N	19 07 21						
14	iP ZV	00 39 03						USCGS: Kermadec.
	e ? E	46 32						
	eLr Z	54.9						
14	e(P) V	02 13 13						
15	e ? E	15 47 12						
15	e(pP) V	21 32 05						USCGS: 800 km North East of Balleny Island.
	e(S) E	36.6						
	M EZ	42.1						
15	eP V	23 43 58						USCGS: Near coast of South Island, New Zealand.
	eS E	49 54						
	eLq N	52.9						
	M EZ	58.0						
16	eP V	02 05 09						
	i(pP) V	05 29						
16	i(P) V	07 24 10						USCGS: South of Mascarene Island.
	eX E	31 08						
	eLr Z	37.5						
16	i(SKIP) (Z)V	18 25 03						USCGS: Aleutians. M = $5\frac{1}{4}$ h about 29km.
18	eX V	01 49 57						
18	e(P) V	04 15 53						USCGS: Sumbawa.
	e(S) E	23 38						
	eLr N Z	33.3						
18	eP V	18 49 27						
	ipP V	49 41						
19	iP V	04 25 17						USCGS: San Juan Province, Argentina: Felt.
	i ? V	29 54						h about 120km. Long period microseisms.



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
OCTOBER (continued)		h. m. s.	s.				km	
19	eT ?	V	09 23 24					
19	eT ?	V	21 23 11					
19	eT ?	V	21 58 53					
	M	V	22 06 45					
19	iP	V	23 52 37			-		USCGS: Banda Sea. h about 177km
20	iP	V	05 40 38			-		USCGS: Banda Sea.
21	iP	V	23 20 16			+		USCGS: Sandwich Is. Region.
	eL	E	38					
22	iP	V	04 45 31					USCGS: Bismarck Sea.
	eLq	N	05 04.6					
22	eL	Z	10 17.6					
22	eX	Z	15 53.6					No record on V 05 00 - 1600
23	e ?	V	23 29 43					
24	e(P)	V	02 08 01					
	iX	V	08 15					
24	eP	V	16 23 41					
	ipP	V	23 55					
24	iX	V	21 10 29					
25	eX	(N)(E)V	01 43 48					
	iX	ZV	43 55					
25	eP	V	03 49 01					USCGS: New Hebrides.
	eLq	(N)	04 04					
25	iP	(N)ZV	09 45 18			+		USCGS: Molucca Passage.
	ipP	(Z)V	45 35					
	i(PcP)	NEZV	45 41					
	iS	(N)V	54 21					
	iX	NEZ	54 23					
	eSS	N	58.8					
	ePKP, PKP	V	10 13 23					Long path.
25	ePKP	V	16 11 17					USCGS: Panama-Costa Rica Border: Felt.
	eLq	E	45.5					
	eLr	Z	50.7					
25	iP	EZV	20 10 37			-	+	USCGS: South West of Macquarie Island.
	iS	N	14 06					
	iX	NEZ	14 16					
26	eP	V	05 20 40					
	ipP	V	20 54					
26	iP	(E)ZV	07 30 38					USCGS: New Hebrides: Felt.
	eS	N	38 52					
	eX	E	39 00					
	eLq	NEZ	46.0					
26	eP	V	16 07 59					USCGS: Sandwich Island.
	eS	(N)E	15 30					
	eL	(N)E	23.0					
	M	E	26.5					
27	eX	E	06 17 23					
	M	NE	26.0					
28	iP	V	15 11 04			+		USCGS: Northern Celebes.
	eP	V	21 42 47					



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>OCTOBER (continued)</u>		h. m. s.	s.				km	
29	e ? eX eL	E E NEZ	07 39 35 50(28) 54 12					V record faulty.
29	eL	Z	16 47.7					
29	eX eL	E Z	21 24 23 42.1					
30	iP iS eX M	(E)ZV NE (N)E NE	01 55 00 02 01 54 04 55 08.5					USCGS: Bouvet Island.
30	eLr	Z	09 31.9					USCGS: Off West Coast of Nicaragua
30	eX	(N)EZ	15 59.8					
30	eL	Z	16 10.5					
31	eSS eLq	E E	12 08 54 22					USCGS: South of Panama. M = 5½ - 6½
<u>NOVEMBER</u>								
1	iP iX iS eLq eLr ePKP, PKP	N ZV V E E Z V	15 44 29 45 51 53 30 16 01.3 06.0 12 36					USCGS: Off Coast of West New Guinea. h about 56km Long path.
1	iP e(S) eLr e(PKP, PKP) ePKP, PKP	(N) ZV (N)E Z V V	18 03 29 25 30 28.5 31 08 31 33			-		USCGS: Off Coast of West New Guinea. h about 36km Long Path. Long Path.
1	eP epP	V V	23 18(26) 18 41					
2	eLr	NEZ	07 23					USCGS: New Hebrides Islands.
2	iP e(S) M	N Z NE Z	14 56 18 15 04 01 17.4			+		USCGS: South of Sumbawa.
3	iP eLr	ZV Z	01 11 09 32.1					USCGS: Solomon Islands. h about 86km.
3	i(P)	V	14 18 31					
3	eLr	Z	18 28.2					USCGS: Near East Coast of North Island, New Zealand.
4	iP iX ePP i(S) e(SS) iLq	N ZV V N Z NEZ (N)(E)Z EZ	23 04 43 05 04 07 24 14 07 18 13 22 12			-	-	USCGS: Off South Coast of Southern Chile. M = 5¾ - 6
5	eL	N	00 34.4					May be Coda of Previous
5	eL(q)	E	21 20.5					USCGS: South Pacific Ocean.



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
NOVEMBER (continued)		h. m. s.	s.				km	
7	iPKP V	13 17 23						USCGS: Azores.
7	eP N ZV	16 12 44						USCGS: Flores Sea. h about 156km
	eX V	19 41						
	eS E	20 32						
	eX NE	21 41						
7	eP V	18 40 29						
	ipP V	40 42						
8	eLr Z	00 53.9						USCGS: Near Coast of Southern Chile.
8	eL E	01 17.0						
8	e(P) V	08 44 11						
	i(pP) V	44 28						
8	iP V	10 13 44						USCGS: New Hebrides. h about 86km
11	iP ZV	07 48 05				+		USCGS: Mascarene Is. Region.
	eS E	55 15						
	eLq NE	08 00						
11	eX V	12 39(04)						
11	eLr EZ	16 01						USCGS: Red Sea.
11	iP NEZV	16 20 30		(-)	-	+		USCGS: Santa Cruz: Felt. h about 77km M = 6 - 6 $\frac{1}{4}$
	eX Z	21 49						
	eX E	28 48						
	iS NE	29 08						
	eX Z	29 17						
	iPS Z	30 18						
	eSS N	32 43						
	eLq N	36.0						
	eLr Z	39.0						
	M NEZ	42.0						
11	iP V	22 25 32						USCGS: Off coast of Southern Chile. M = 6 $\frac{3}{2}$ - 6 $\frac{3}{4}$
	iX N Z	25 33						
	iPP Z	28 05						
	eS NE	34 47						
	e(Lq) E	42 22						
	eX Z	43 12						
	eLr N Z	47						
	ePKP, PKP V	53 27						
	M N Z	58.8						
13	(T) Max. V	17 42						
13	e(P) V	21 56 33						
13	iP (Z)V	57 09						USCGS: Sandwich Island.
	eS E	22 04 39						
	eL N Z	13						
14	eP ZV	22 09 57						USCGS: Northern Celebes. h about 92km
	iX V	10 13						
	ipP (Z)V	10 19						
	iX V	10 22						
	iS NE	18 43						
	eLq E	25.7						
	eL N Z	30.9						



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
NOVEMBER (continued)		h. m. s.	s.				km	
15	iP iS eX M	V E E N Z	16 03 39 13 13 17 51 37					USCGS: Central Chile.
15	eX	V	23 33 05					
15	ePS eSS	NE N	52.9 58.4					USCGS: Near Coast of Northern Peru. M = 6 h about 45km.
16	iP iX iX i(S) eX eSS eSS eLq eLr M M	Z V V NE(Z) NEZ N(Z) E E Z NEZ (N)EZ	07 30 24 30 26 30 30 40 16 40 53 44 53 45 14 50.5 55.1 59.3 08 01.7					USCGS: Easter Island Region. M = $6\frac{1}{2}$ - $6\frac{3}{4}$ Good surface waves.
16	eP i(pP) iX iS	ZV V V NE	21 22 12 22 24 22 48 32 14					USCGS: Andaman Islands. M = 6 - $6\frac{1}{4}$
16	eLq eLr M	E N Z Z	22 43.1 48.0 54.6					
17	eX iX	V V	10 31 35 31 53					
17	iP	V	14 31 40					USCGS: Celebes Sea. h about 609km
18	eP i(pP)	V V	05 22 55 23 08					
18	eiP eL	V Z	06 53 56 07 15.6					USCGS: Molucca Sea.
18	iP ipP	V V	18 05 51 06 04					
19	e ?	E	07 47 09					
19	iX iX eL	NE E NE	10 32 38 36 45 38.5					USCGS: South Pacific Ocean.
19	e(P) eX iX	V EZV N(E)(Z)	14 03 23 03 26 07 09					USCGS: South West of Macquarie Island.
20								No Grenet record.
21								Microseisms.
22	eL	E	10 58.1					Two patterns of microseisms appear on Grenet record.
23	eX eSS eLq	E E E	00 55 10 01 01 50 11.1					USCGS: Near Coast of Southern Chile. Short period microseisms associated with onshore wind and heavy waves on icefoot.



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
<u>NOVEMBER (continued)</u>		h. m. s.	s.				km	
24								Microseisms.
25								Microseisms.
26	eL Z	06 25.5						
	eX NE	07 01 35						
	eX ZV	02 00						
26	iP (Z)V	16 09 14						USCGS: Tonga Islands.
	eS N(E)	17 29						h about 19km
27	eS NE	17 13 07						USCGS: Marianas.
	eX (N)E	24 16						
	eLr Z	28.8						
28	iP ZV	02 48 08						USCGS: Marianas.
	eS NE	58 19						
	eLq E	03 09 24						
28	iP V	05 14 49				-		USCGS: South Atlantic Ocean.
	eL EZ	40.5						H = 05 02 36.1
28	iP V	05 21 29				-		USCGS: South Atlantic Ocean.
								H = 05 09 15.0
28	eP V	15 37 47						USCGS: Andeman Island.
29	eP V	01 05 25						
	ipP V	05 39						
29	iP V	04 07 58				-		USCGS: Kermadec Islands.
	iX V	08 55						h about 140km.
29	eL N	05 48						
29	i(P) V	09 14 18						USCGS: Tonga.
	eX E(Z)	22 38						
	eL N Z	32						
29	eP V	17 28 43						
	epP V	28 57						
29	iP EZV	19 16 54				-		USCGS: New Hebrides Islands.
	iX V	16 57						
	iX V	17 10						
	eX E(Z)	17 30						
	iX ZV	19 19						
	eiS NEZ	25 18						
29	eSS NEZ	19 29						
	eLq N	32.1						
	M NEZ	36.3						
30	e(P) Z	22 24 23						USCGS: Mexico.
	eL NEZ	52.4						M = $5\frac{1}{4}$ - $5\frac{1}{2}$ h about 51km
<u>DECEMBER</u>								
1	e(P) V	02 13 49						
	eX NEZ	30.4						
1	iP ZV	04 26 32.5				+		USCGS: Kermadec ,
	iX V	27 02						
2	eL EZ	03 43.0						
2	iP ZV	05 41 34						USCGS: Solomon Islands: Felt.
	eS E	50 17						
	eLr Z	06 01 41						



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
DECEMBER (continued)		h. m. s.	s.				km	
4	eL	EZ	04 31.2					USCGS: Off coast of Guerrero, Mexico.
	e ?	E	07 46 13					
4	eS	N	10 53 50					USCGS: New Britain: Felt. h about 83km
	eLr	Z	11 06 08					
4	eP	Z	16 51 05					USCGS: Samoa Island Region.
	eS	NE	17 00 22					
4	iP	ZV	20 28 34			-		
	iS	E	32 40					
	eX	N Z	32 46					
	eL	N(Z)	33 52					
6	eLr	E	07 15.3					Grenet record faulty. USCGS: Near Coast of Southern Chile.
7	eP	N ZV	14 16 27					USCGS: Bonin Islands. M = $6\frac{3}{4}$ h about 411km
	epP	Z	18 06					
	esP	Z	18 47					
	i(PP)	ZV	20 30					
	iPPP	NEZV	22 36					
	i(S)	E	27 10					
	eX	N	28 35					
	e(PS)	NE	29 14					
	e(PPS)	E	29 51					
	iX	N	31 21					
	e(SS)	N(E)	33 49					
	eX	(N)E	36 26					
	eX	E	39 20					
	eX	E	42 21					
8	e(P)	V	12 13 11					
	e(pP)	V	13 24					
8	iP	V	18 13 32			-		USCGS: Near Coast of Northern Chile. h about 100km
	ipP	V	13 56.5					
8	iP	EZV	18 29 42			-	+	USCGS: Tonga Island Region.
	iS	NE	38 51					
	iSP	Z	39 13					
	eSS	N	48 10					
	eLr	EZ	51 57					
8	i(P)	V	21 03 03					
	i(pP)	V	03 16					
8	iP	N ZV	21 39 10			-		USCGS: Salta - Santiago del Estero Province Border, Argentina. h about 620km Very short period.
	epP	N ZV	41 14					
	eX	N Z	42 40					
	eX	V	44 28					
	iX	N Z	45 34					
	eSKS	N(S)	48 38					
	iS	NEZ	49 04					
	eX	E	50 52					
	iX	E	52 36					
	iX	V	54 54					
	iSS	E	55 12					
	iX	E	58 23					
	eX	E	22 01 35					
8	iPKP	V	23 14 12					



Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
DECEMBER (continued)		h. m. s.	s.				km	
10	eP ZV	05 04 59						USCGS: Indian Ocean.
	iX V	05 05 05						
	ePP ZV	06 51						
	iS NEZ	11 55						
	eL NEZ	18 04						
10	eL Z	06 46.0						USCGS: Solomon Islands.
10	eLr Z	17 23.1						USCGS: Kermadec Is. Region.
11	iP NEZV	02 38 26		-	-	+		USCGS: About 2000km South of Australia.
	eX E	41 51						
	eX Z	42 08						
	eX N	42 11						
	eL N Z	42 37						
12	iP NEZV	10 19 42		(-)	(-)	+		USCGS: New Britain.
	ipP ZV	20 10						h about 94km
	eS NE(Z)	28 30						
	iX E(Z)	29 30						
12	eX E	10 32.7						
	M NEZ	42.2						
12	eP ZV	14 05 23						USCGS: Sandwich Island.
	e(S) N	12 34						
	eL NE	21.3						
12	iP V	23 07 44						USCGS: Sumatra.
	eL N Z	28.9						
13	iPKP V	04 41 01				-		USCGS: South Central Alaska.
	eL E	19 24						
17	iP (N)Z	11 10 40						No V record.
	ipP N Z	12 06						USCGS: Celebes Sea.
	iS NE(Z)	19 09						
	eX NE	19 58						
17	eL Z	19 40.0						
18	iX N	06 06 09						Very disturbed by short period microseisms.
18	iP EZ	07 23 17						Interesting surface waves.
	eS N(E)(Z)	27 03						
18	e ? V	22 07 49						Short period irregular phase.
	e ? NEZV	08.6						
19	eP Z	13 07 06						No E record.
	eS N	16 06						USCGS: Solomon Islands :Felt.
	eLr N Z	28.9						h about 98km
20	iP N(Z)V	08 53 32						
20	iP V	08 56 41						USCGS: Fiji Is. Region.
								h about 512km.
20	iP (E)(Z)V	18 25 50						USCGS: Balleny Is. Region.
	iS N(E)	29 58						
	eX (E)Z	30 12						
	eLq N	30 41						
21	iP N ZV	00 53 59						USCGS: Near South Coast of Java.
	i(pP) V	54 12						h about 64km
	iS N Z	01 01 47						
	e(SS) Z	05 26						
	eL NE	10.4						





Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
DECEMBER (continued)		h. m. s.	s.				km	
21	e(PKP) Z	09 02 08						USCGS: Fox Island, Aleutian Islands. H = 08 42 48.3 M = $6\frac{1}{4}$ - $6\frac{3}{4}$
	eX V	02 43						
	iPP Z	04 31						
	e(SKP) (E)V	05 39						
	iX N	05 52						
	eX (N)E(Z)	11.4						
	eX V	20 05						
	iX NE	22 10						
	iX N	24 17						
21	iP ZV	09 55 26					-	In coda of Previous.
	ipP V	56 21						Bolivia-Argentina Border Region
21	ePS E	18 12 45						USCGS: Gulf of Aden.
	eSS E	17 45						
	eLr NEZ	29.1						
21	i(P) V	18 32(59)						
	i(pP) V	33(08)						
21	e(T) V	21 42 53	21					Duration about 160 sec.
	eX N Z	56 43						
	eL Z	22 21.2						
22	iP V	01 02 14					-	USCGS: Loyalty Island Region.
	iX NEZ	02 16		+			-	M = $6\frac{1}{2}$ - $6\frac{3}{4}$
	iS NEZ	10 11						
	eSS NEZ	13 59						
	iLq NE	16 32						
	eLr Z	19 35						Good surface wave train.
	iX V	38 39						
	iP ZV	02 09 30						In coda of previous.
	e(pP) V	09 41						USCGS: Near South Coast of Java. h about 69km
	eS NE	17 19						
	iX Z	17 44						
	M N Z	30.0						
22	eX V	10 53 36						
22	eP diff. Z	15 40(09)						
	i(PKP) Z	42 29						
	i(PKP) EZV	43 07						
	i(SKS) E	49 09						
	iX (N)EZ	59 10						
	iX NE	16 01 52						
	iX Z	04 13						
	iX E	04 38						
23	eL Z	00 32.1						Short period microseisms.
23	eL Z	03 15.6						
24	eL Z	00 50.2						USCGS: Sandwich Island Region.
24	eL Z	12 09.1						USCGS: Novaya Zemlya or Loyalty Is. Region ?
24	eL E	22 55.5						
25	eL N	09 31 44						
25	e(S) E	12 31 04						USCGS: South Pacific Ocean.
	eLq E	40.2						
26	eX Z	22 47 26						V component not recording for most of day.
	e(SS) NE(Z)	23 03.1						USCGS: Komondorskie Is.
	eX NE	08 05						M = $6\frac{1}{2}$
	eX NE	17.6						
	eLr Z	25.3						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
DECEMBER (continued)		h. m. s.	s.				km	
27								V component not recording.
29	iP Z	10 54 19						USCGS: Northern Chile: Felt.
	ePP Z	58 12						M = 6 - 6 $\frac{3}{4}$
	iSKS NE	04 49						
	eS E(Z)	05 22						
	iSP N	06 41						
	e(SS) N(E)Z	10.5						
29	iP EZ	14 57 05						USCGS: Kermadec Is. Region.
	iS E	15 04 36						h about 43km.
	iX N Z	04 43						M = 6 - 6 $\frac{1}{4}$
	i(ScS) N	06 53						H = 14 47 41.4
	M EZ	20.0						
29	eL Z	18 45.2						USCGS: Kermadec Island Region.
								H = 18 19 40.7
30	iP (N)EZ	18 27 11						USCGS: New Britain: Felt.
	iX Z	27 50						
	iS NE	36 01						
	eLq E	43.9						
	eLr N Z	48.3						
31	eX N	11 21.1						USCGS: Near Coast of Sumatra.
	eLq E	28.2						
	eLr N Z	31.2						
31	eL NEZ	20 07.0						

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