



Jan 1963

Mawson Copied 1962 reg.

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

203 Collins Street,
MELBOURNE. VIC.

FINAL SEISMOLOGICAL BULLETIN 1962

MAWSON - ANTARCTICA.

Latitude: 67° 36.2 S Longitude: 62° 52.5 E Height: 6 Metres

Foundation: Felspar Porphyry.

Instruments: Benioff Short Period Vertical T_s 1.0 sec.

T_g 0.2 sec.

Benioff Long Period Horizontals (Two Components) T_s 1.0 sec.

T_g 70 sec.

NOTE: The Microseismic level is very much reduced when the ocean freezes from approximately May to December, thus enabling the instrument magnifications to be greatly increased during this period.

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Remarks
				A _N	A _E	A _Z	
FEBRUARY							
		h. m. s.	s.				km
11	iP	Z 19 08 03				+	USCGS: 4.5S 153.5E h = 100km
	ipP	Z 08 37				+	
	isP	Z 08 57					
11	iP	Z 22 04 44				+	
	iX	Z 46					
12	e(P)	Z 04 15 40					A, K
14	iP	Z 06 47 11					USCGS: 38.1S 74.1W h = 44km
	ipP	Z 47 23					
	ePP	NE 49 50	195				
	ePPP	N 51 47	18				
	eS	NE 56 14		+	-		
	eSS	NE 07 01 24					
	eSSS	NE 03 58					
	L	NE 07.0					
	Max.	NEZ 16.6					
15	iP	Z 10 01 23				-	USCGS: 49.4S 32.1E h = 25km
17	iPKP	Z 22 48 57				-	USCGS: 52.7N 169.7W h = 29km
MARCH							
3	ePKP	Z 11 09 40					USCGS: 53.2N 162.5E h = 28km
7	ePP	Z 11 18 31					USCGS: 19.3N 145.3E h = 680km
11	eP	Z 19 32 13					USCGS: 9.0N 126.7E h = 25km
12	e(P)	Z 10 16 49					
18	iP	Z 06 06 27				-	USCGS: 0.3N 123.5E h = 53km
	ipP	Z 06 38				+	

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>MARCH (continued)</u>		h. m. s.	s.				km	
21	iP	Z 23 08 06						USCGS: 5.9S 113.0E h = 631km
	eX	Z 08 50						
	epP	Z 10 13						
	ePP	Z 13 14						
	ePPP	Z 14 21						
	ePKP PKP	Z 35 55						
22	iP	Z 00 29 59				-		USCGS: 5.9S 112.9E h = 611km
	epP	Z 32 06						
22	iP	Z 15 25 30	2/3			+		USCGS: 3.2S 142.3E h = 25km
	eX	Z 26 52						
	eS	NE 35 45						
	L Max.	NE 16 01.2						
22	iP	Z 16 28 48				-		USCGS: 2.1S 139.3E h = 44km
24	iP	Z 13 11 40	K			-		USCGS: 5.7S 145.0E h = 111km
	ipP	Z 12 10						
	esP	Z 12 19						
	eX	Z 19 35						
	eS	NE 21 43						
	L Max.	NE 50.6						
25	eX	Z 00 14 05						
26	iP	Z 14 23 48				-		
26	iP	Z 16 43 37						USCGS: 40.6S 73.3W h = 32km
27	eX	Z 16 23 28						
28	iP	Z 06 28 00						
28	e(P)	Z 23 35 12				+		
	iX	Z 35 47						
29	i(P)	Z 00 57 15				+		
29	i(P)	Z 09 09 37				+		
29	eP	Z 20 21 10						USCGS: 0.5S 127.4E h = 25km
<u>APRIL</u>								
1	ePKP	Z 09 46 28						USCGS: 81.5N 119.5E h = 25km
	iPKP ₂	Z 46 37				-		
1	iP	Z 12 23 22				+		USCGS: 4.2S 143.6E h = 88km
	epP	Z 23 42						
	esP	Z 23 56						
1	iP	Z 15 49 04						USCGS: 17.9S 167.2E h = 53km
1	e(P)	Z 18 12 32						
2	eiP	Z 00 32 53				+		USCGS: 18.6N 145.5E h = 205km
2	eP	Z 12 11 34						
3	eP	Z 16 37 28						
	epP	Z 37 38	1 1/2					
4	NIL							
5	NIL							
6	NIL							
7	NIL							
8	i(P)	Z 13 23 49						

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	
9	iP	Z 09 05 39					-	USCGS: 8.6S 124.1E h = 46km
10	iP	Z 04 48 12					+	USCGS: 28.6S 68.8W h = 130km
11	iPP	Z 21 00 19						USCGS: 35.9S 71.1E h = 158km
12	iPKP	Z 01 11 31						USCGS: 38.2N 142.3E h = 68km
	iPP	Z 13 28					-	
	eSS	NE 30 03						
	L Max	NE 02 00.0						
12	i(P)	Z 04 11 55					-	
12	iP	Z 16 48 04					+	USCGS: 28.7S 71.9W h = 34km
	epP	Z 48 15						
	isP	Z 48 20					+	
	i(PP)	Z 51 43						
13	NIL							
14	ePKP	Z 08 13 09						
14	iP	Z 10 07 46					+	
15	e(P)	Z 15 08 40						
	e(P)	Z 22 13						
15	iP	Z 18 20 43					+	USCGS: 2.7S 11.6W h = 25km
	ipP	Z 20 50					-	
15	iP	Z 18 57 32					+	USCGS: 2.9S 11.9W h = 25km
	ipP	Z 57 39						
15	iP	Z 22 38 36					-	USCGS: 56.6S 26.2W h = 25km
16	iP	Z 06 34 54						
16	iP	Z 18 00 56					-	USCGS: 44.8S 37.2E h = 24km
16	i(P)	Z 18 07 05						
	iX	Z 07 28					-	
16	eX	Z 18 14 15						
17	eP	Z 11 48 32						USCGS: 37.8N 19.9E h = 25km
17	iP	Z 21 08 53					-	USCGS: 38.4N 142.2E h = 110km
17	iP	Z 22 47 28					+	USCGS: 1.5S 14.9W h = 25km
18	eP	Z 19 28 13						USCGS: 10.0S 79.0W h = 39km
19	eX	Z 13 12 15						
19	e(P)	Z 13 17 00						
19	iP	Z 22 27 12					-	USCGS: 15.8S 168.0E H = 213km
19	iFKP	Z 23 35 46						USCGS: 68.8N 138.6E h = 0 km
20	iPKP	Z 06 06 52						USCGS: 20.6N 72.2W h = 25km
	ePS	Z 18 23						
	e(PPS)	Z 20 23						
	L Max.	NE 07 01.6	1½					
21	iP	Z 21 30 11					+	USCGS: 6.3S 144.6E h = 42km
22	iP	Z 02 21 47						USCGS: 18.9S 169.5E 288km
22	iP	Z 19 01 26						
23	iPKP	Z 06 17 06						USCGS: 42.9N 143.4E h = 25km
	eSKS	NE 24 08						
	ePS	NE 29 01						
	ePPS	Z 30 23						
	eSKKS	Z 34 02						
	L Max.	NE 07 00.1						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
<u>APRIL (continued)</u>		h. m. s.	s.				km	
23	eiP	Z 15 02 58				+		USCGS: 6.9S 128.4E h = 83km
23	e(P)	Z 18 34 13						
23	e(P)	Z 19 41 20						
24	eX	Z 00 40 40						
24	e(P)	Z 00 15 49						
24	i(P)	Z 04 36 48						
	i(pP)	Z 37 11						
25	NIL							
26	iP	Z 07 37 57				-		USCGS: 17.8S 179.1W h = 689km
	ipP	Z 39 01						
26	eX	Z 12 04 22						
26	eP	Z 18 35 17						
27	iP	Z 06 41 30				-		USCGS: 23.1S 179.2E h = 25km
27	iP	Z 06 58 02				+		USCGS: 44.4S 74.8W h = 31km
28	NIL							
29	iP	Z 15 22 46				+		USCGS: 12.4S 166.5E h = 72km
	epP	Z 23 09						
29	i(P)	Z 18 42 45						
30	iPKP	Z 02 45 14				+		USCGS: 38.8N 140.9E h = 104km
	ePP	Z 46 45						
	ePKKP	Z 55 18						
	e(PcPPKP)	Z 59 09						
30	eP	Z 09 58 11						USCGS: 17.0N 147.3E h = 109km
	iPP	Z 10 02 27	2			-		
30	iP	Z 16 29 21				-		USCGS: 17.9S 176.1W h = 26km
	L Max.	NE 17 04.8						
30	iP	Z 18 43 29				-		USCGS: 18.0S 176.4W h = 135km
30	iP	Z 20 05 49				+		
30	iP	Z 20 52 22				-		USCGS: 6.4N 124.0E h = 28km
<u>MAY</u>								
1	iPKP	Z 00 10 01				+		USCGS: 72.0N 7.2E h = 25km
1	iP	Z 07 38 53				+		
1	iP	Z 10 05 01						
1	eP	Z 21 16 48						USCGS: 20.0S 65.7E h = 39km
2	e(P)	Z 07 27 06						
2	iP	Z 09 08 30				-		USCGS: 23.6S 65.0W h = 163km
	i(PKKP)	Z 27 01				+		
	ePKPPKP	Z 10 04 50						
2	iP	Z 12 45 07				-		USCGS: 23.8S 66.4W h = 179km
	ipP	Z 45 58				-		
2	eP	Z 19 48 38						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
MAY (continued)		h. m. s.	s.				km	
3	iP Z	03 42 17		+	+	-		USCGS: 60.0S 32.9W h = 20km
	eX Z	42 44						
	ePP Z	43 41						
	ePcP Z	44 11						
	ePPP Z	45 06						
	eS NE	48 18						
	eSS NE	51 06						
	L Max. NE	56.0						
3	i(P) Z	09 36 18				+		
3	iX Z	11 43 13				+		
3	iP Z	14 34 56				+		
3	iP Z	17 07 54				+		USCGS: 60.5S 33.2W h = 33km
	epP Z	08 02						
3	i(P) Z	22 51 13				-		
4	e(P) Z	11 26 41						
5	iP Z	23 17 05						USCGS: 31.6S 176.7W h = 41km
6	iP Z	03 23 38				-		USCGS: 54.3S 136.6W h = 25km
6	iP Z	03 43 35				-		USCGS: 54.2S 136.5W h = 25km
	L Max. Z	04 01.8						
6	iP Z	05 32 12				+		USCGS: 37.8S 73.4W h = 25km
6	eP Z	07 22 14						USCGS: 5.7S 151.6E h = 98km
6	i(P) Z	17 01 39				-		
6	iP Z	19 07 35		+	+			USCGS: 60.0S 32.8W h = 25km
	eX NE	08 05						
	ePP NE	09 12						
	eS NE	13 30		-	-			
	Lq NE	16 26						
	Lr NE	18 13						
	L Max. NE	20.9						
6	iP Z	22 01 14				-		USCGS: 60.2S 33.1W h = 37km
	ePP Z	02 40						
	iPcP Z	03 31				-		
	eS E	07 17				+		
	L Max. NE	14.9						
6	iP Z	22 42 10				+		USCGS: 60.4S 33.6W h = 34km
	iX Z	43 13				-		
	iPP Z	43 44				+		
7	i(P) Z	07 07 14				+		
	eP Z	13 18 14						USCGS: 32.0S 176.5W h = 25km
7	eP Z	19 10 41						
8	NIL							
9	NIL							
10	NIL							
11	iP Z	07 18 08				-		USCGS: 6.6S 147.7E h = 42km
	ipP Z	18 19						
11	iP Z	13 46 57				+		USCGS: 28.5S 177.6W h = 115km
11	ePKP Z	14 30 54						USCGS: 17.ON 99.7W h = 25km
	iX Z	31 28						
	eX Z	31 45						
	ePP Z	32 12						

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	iP	Z	20 11 13				+	USCGS: 26.5S 13.6W h = 25km	
	ipP	Z	11 21				-		
12	iP	Z	18 54 41				+	USCGS: 26.5S 13.7W h = 25km	
	ipP	Z	54 48				+		
13	iP	Z	10 58 23				+	USCGS: 3.2S 129.0E h = 41km	
	ipP	Z	58 32				-		
14	iP	Z	10 44 30				-	USCGS: 9.0S 118.7E h = 30km	
	esP	Z	44 45						
14	i(P)	Z	12 18 09				-		
14	iP	Z	23 35 49				-	USCGS: 14.0S 178.2W h = 65km	
15	iP	NEZ	05 35 19				+	USCGS: 7.3S 128.3E h = 34km	
	ePP	NE	38 13		+				
	ePPP	NE	39 41						
	eS	NE	44 51		+	+			
	eSS	NE	49 39				-		
	eSSS	NE	52 58						
	L Max	NEZ	06 01.9						
	ePKPKP	Z	06 02 46						
15	iP	Z	06 54 39				+	USCGS: 7.2S 128.3E h = 52km	
	ipP	Z	55 12						
	ePP	Z	57 27						
15	eP	Z	07 43 54					USCGS: 8.2S 129.2E h = 57km	
	eX	Z	44 31						
15	iP	Z	08 51 47				+	USCGS: 35.1S 73.1W h = 25km	
15	iP	Z	10 06 50				+	USCGS: 7.2S 128.2E h = 30km	
	iPcP	Z	06 54				+		
	ipP	Z	07 01				-		
15	iP	Z	17 05 35				+	USCGS: 7.4S 128.0E h = 34km	
	ipP	Z	44						
	iPcP	Z	53						
15	iPKP	Z	19 51 47				-	USCGS: 53.4N 159.6E h = 30km	
	iX	Z	52 03				-		
15	iP	Z	21 42 33				+	USCGS: 7.2S 128.1E h = 38km	
	ipP	Z	42 43				-		
16	iP	Z	05 29 07				-	USCGS: 13.6S 167.3E h = 52km	
16	i(P)	Z	09 14 03				+		
16	i(P)	Z	09 40 13				-		
16	iP	Z	14 47 03				-	USCGS: 7.3S 128.1E h = 34km	
16	eP	Z	17 45 28					USCGS: 13.4S 167.3E h = 35km	
16	eP	Z	19 20 06					USCGS: 9.3S 118.4E h = 47km	
17	iP	Z	02 29 50				+	USCGS: 41.9S 171.5E h = 41km	
	iPcP	Z	30 13				-		
17	iP	Z	16 08 18				-	USCGS: 55.8S 27.0W h = 23km	
	ipP	Z	08 26						
	iPPP	Z	10 19				+		
17	i(P)	Z	16 13 55						
18	iP	Z	07 24 07				+	USCGS: 29.3S 178.4W h = 192km	
	iX	Z	24 11				+		
	iPcP	Z	24 31				-		
18	i(P)	Z	10 05 45				+		

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	
18	iPKP Z	19 05 48				+		USCGS: 46.1N 148.5E h = 66km
18	iP Z	23 31 34				-		USCGS: 16.0S 173.0W h = 25km
	ipP Z	31 40				-		
19	iPKP Z	15 17 18				+		USCGS: 17.2N 99.5W h = 20km
	ePP Z	19 04						
	ePKS N	20 37						
	ePPP Z	21 56						
	eSKS Z	23 50						
	ePPS Z	31 00						
	eSS Z	36 00						
	eSSS Z	41 12						
20	iP Z	00 09 46				-		USCGS: 13.4S 76.7W h = 70km
	ipP Z	10 01				-		
20	e(P) Z	10 28 10				-		
20	iP Z	17 02 12						USCGS: 6.2N 125.8E h = 133km
21	ePP Z	12 21 38						USCGS: 37.3N 96.0E h = 25km
	ePPS N Z	31 59						
21	iP Z	21 27 13				-		USCGS: 20.0S 177.5W h = 379k
	ipP Z	29 07						
	ePPP NE	31 54						
	eX NE	34 04						
	eS NE	37 06						
	eX NE	39 37						
	eSS NE	42 44						
	G NE	49 37						
22	iP Z	04 49 51				+		USCGS: 55.5S 138.3W h = 42km
	ePP Z	51 54						
	L Max. E	05 07.2						
22	iP Z	08 02 20				-		USCGS: 10.2S 161.5E h = 103km
22	iP Z	08 18 55		+	-	+		USCGS: 12.3S 166.6E h = 151km
	epP NE	19 28						
	ePP Z	22 03						
	ePPP Z	24 41						
	i(S) NE	29 07		+	-			
	iSP NE	29 58		-	-			
	eSS E	34 43						
22	i(P) Z	16 30 06				+		
22	iP Z	22 16 02				-		USCGS: 5.5S 152.0E h = 100km
	eX Z	17 24						
23	NIL							
24	i(P) Z	20 31 43				-		
25	iP Z	04 31 55				+		USCGS: 20.7S 174.3W h = 28km
25	iP Z	07 17 38				-		USCGS: 18.4S 168.4E h = 67km
25	iP Z	14 31 02				-		USCGS: 30.9S 177.2W h = 25km
	iX Z	31 21				-		
25	i(P) Z	15 14 24				+		
	iX Z	14 52				-		
25	iP Z	17 32 56				-		USCGS: 24.1S 179.1E h = 576km
25	iP Z	21 40 48						USCGS: 24.3S 65.2W h = 69km
	ipP Z	41 03				-		
	isP Z	41 16				-		

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Remarks
				A _N	A _E	A _Z Δ	
<u>MAY (continued)</u>		h. m. s.	s.				km
26	iP	Z	06 53 26			+	
	ipP	Z	53 36			+	
	isP	Z	53 41			-	
26	iP	Z	10 03 32			+	
	iX	Z	03 47			+	
26	iP	Z	13 01 22			+	USCGS: 43.2S 75.6W h = 38km
	epP	Z	01 36				
26	iP	Z	19 56 10			-	USCGS: 6.7N 94.6E h = 60km
	epP	Z	56 33				
27	iP	Z	14 38 53			-	USCGS: 41.4S 80.6E h = 25km
28	iP	Z	16 20 33			-	USCGS: 10.8S 165.8E h = 25km
	ipP	Z	20 41			-	
28	iP	Z	21 56 49			+	USCGS: 7.0S 128.9E h = 65km
	iX	Z	57 34			-	
29	iP	Z	00 00 35			+	USCGS: 31.3S 68.3W h = 94km
29	iP	Z	00 13 10			+	
29	eP	Z	21 19 51				USCGS: 51.8N 177.1W h = 25km
30	NIL						
31	eP	Z	06 42 18				USCGS: 22.1N 142.6E h = 257km
	ePKP	Z	46 22				
	ePP	Z	46 38				
	iPPP	Z	48 52			+	
31	iP	Z	06 56 26			+	
	eX	Z	57 42				
31	iP	Z	07 47 39			+	
	ipP	Z	48 00			-	
31	iP	Z	08 48 50			+	USCGS: 30.8S 177.3W h = 42km
	iX	Z	48 59				
31	iP	Z	21 30 12			+	USCGS: 38.2S 72.7W h = 25km
	iPcP	Z	30 18				
<u>JUNE</u>							
1	iP	Z	10 19 20				
	ipP	Z	19 28				
5	iP	Z	16 55 12			+	USCGS: 7.1S 129.2E h = 124km
	isP	Z	55 58			-	
7	iX	Z	06 39 18			+	
7	iX	Z	08 56 00			-	
10	i(P)	Z	00 03 07			-	
	e(pP)	Z	03 53				
10	iP	Z	13 38 40			-	USCGS: 23.3S 66.4W h = 184km
11	iP	Z	02 17 36.5			-	USCGS: 19.0S 168.8E h = 85km
11	iP	Z	04 46 42.0			-	USCGS: 19.6S 177.7W h = 370km
11	iPKP	Z	07 34 20.5			+	USCGS: 43.5N 18.3E h = 21km
	ipPKP	Z	34 24			-	
	iPP	Z	35 23			+	

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
JUNE (continued)		h. m. s.	s.				km	
11	iP	Z 17 14 41.5				+		USCGS: 10.6S 164.7E h = 132km
11	iP	Z 18 30 37				-		
12	iP	Z 02 43 17				-		
12	iP	Z 13 57 44				+		USCGS: 13.2S 167.2E h = 233km
13	iP	Z 14 52 13				-		
13	iP	Z 17 14 42				-		
13	iP	Z 19 20 46				+		USCGS: 24.2S 176.3W h = 25km
	iPcP	Z 21 02						
13	iP	Z 23 08 43				-		
14	iPKP	Z 08 11 24				-		USCGS: 54.3N 169.1E h = 34km
	ipPKP	Z 11 39						
14	iPKP	Z 08 15 20				-		USCGS: 54.2N 169.3E h = 56km
	ipPKP	Z 15 33				+		
14	iPKP	Z 17 33 51				-		USCGS: 54.2N 169.2E h = 63km
	ipPKP	Z 34 06				+		
14	iP	Z 21 18 57				-		
15	iP	Z 05 54 06				+		
15	iP	Z 06 43 12				+		USCGS: 20.4S 70.9W h = 60km
	esP	Z 43 43						
16	iP	Z 06 39 19.0				+		USCGS: 0.2S 122.8E h = 177km
	iPcP	Z 39 24.0						
	ipP	Z 39 57.0				+		
	isP	Z 40 09				-		
17	iP	Z 03 09 02				+		
17	iP	Z 11 06 18						
17	iP	Z 13 34 46				+		USCGS: 10.7S 165.3E h = 106km
	isP	Z 35 28						
17	iPP	Z 14 45 51				+		USCGS: 43.2N 88.0E h = 50km
	eX	Z 46 47						
17	iPKP	Z 22 47 44				-		USCGS: 51.7N 177.0E h = 22km
	eX	Z 48 06						
18	iPKP	Z 12 46 36				+		USCGS: 52.4N 174.6W h = 65km
	ipPKP	Z 46 52.5				-		
	iX	Z 47 00				+		
18	iP	Z 23 55 02				-		USCGS: 4.8S 151.8E h = 47km
	epP	Z 55 17						
	esP	Z 55 22						
	iPP	Z 58 20				-		
19	eX	Z 01 47 42						
19	iP	Z 03 44 24				-		USCGS: 5.6S 151.5E h = 130km
19	iP	Z 15 57 47				+		USCGS: 17.0S 172.5W h = 29km
	ipP	Z 57 55						
20	ipP	Z 06 27 29				-		USCGS: 6.9S 126.6E h = 272km
	iPP	Z 28 54				+		
21	iP	Z 08 50 42				-		USCGS: 20.8S 175.6W h = 67km
	iPcP	Z 50 45				-		
	ipP	Z 50 51				-		

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	
21	iP	Z 19 09 20				+		USCGS: 38.8S 72.9W h = 40km
	i(sP)	Z 09 35				+		
	iPcP	Z 09 43				-		
21	iP	Z 23 04 29				-		USCGS: 7.4S 130.1E h = 52km
22	iP	Z 15 07 49				+		USCGS: 6.9S 147.0E h = 70km
	iPcP	Z 08 02				+		
23	iP	Z 09 58 43				-		USCGS: 25.7N 128.5E h = 36km
	ePP	Z 10 02 59						
23	iP	Z 10 11 51				+		USCGS: 19.1N 121.4E h = 40km
	ipP	Z 12 02				-		
	iPP	Z 14 40				+		
23	iP	Z 12 52 20				+		
23	iP	Z 15 14 46				+		USCGS: 33.5S 71.8W h = 40km
23	eX	Z 15 58 06						
23	eX	Z 22 42 33						
25	iP	Z 01 42 51				-		USCGS: 20.8S 179.2W h = 645km
	epP	Z 45 04				+		
25	iP	Z 03 01 36				+		USCGS: 20.6S 71.0W h = 37km
	ipP	Z 01 45				-		
25	iP	Z 06 38 00				+		USCGS: 37.3S 73.5W h = 40km
	ipP	Z 38 09				-		
	iPcP	Z 38 23				-		
	isPcP	Z 38 48				+		
25	eP	Z 11 24 25						USCGS: 24.3N 122.6E h = 33km
	ipP	Z 24 36				-		
	ePP	Z 28 18						
25	iP	Z 13 02 11				-		USCGS: 3.7N 126.6E h = 25km
	iPcP	Z 02 15.5				-		
	ipP	Z 02 17.5				-		
	isPcP	Z 02 26.9				+		
26	iP	Z 06 02 53				-		
27	iP	Z 03 42 21				+		USCGS: 6.1S 148.8E h = 55km
	iPcP	Z 42 28				-		
	ipP	Z 42 33.0				+		
	ipPPP	Z 47 41.5						
27	iP	Z 08 29 13				+		
	ipP	Z 29 31				-		
27	iP	Z 13 44 12				+		USCGS: 48.0S 99.6E h = 25km
	ipP	Z 44 21						
	iPP	Z 45 03						
27	iX	Z 18 19 50				-		
27	iP	Z 19 59 20				-		
28	iP	Z 11 28 32				+		USCGS: 7.7S 107.9E h = 94km
	ipP	Z 28 50				-		
	iPcP	Z 29 01						
	isP	Z 29 12				+		
28	iP	NEZ 19 02 28		-	-	+		USCGS: 0.2S 124.3E h = 58km
	iPcP	EZ 02 40				-		
	ipP	EZ 02 45.0				-		
	iPP	Z 05 25				-		
	ipPP	Z 05 41						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>JUNE</u> (continued)		h. m. s.	s.				km	
28	iP	Z 20 57 42.0				-		USCGS: 17.6S 175.2W h = 244km
29	iP	Z 03 37 53				+		USCGS: 56.2S 26.9W h = 25km
	ipP	Z 38 04						
29	iP	Z 10 40 37.0				+		USCGS: 35.2S 106.0W h = 25km
	isP	Z 49.0				-		
	iPcP	Z 51				+		
	isPcP	Z 01						
29	iP	Z 14 00 40				-		USCGS: 7.9S 127.3E h = 80km
	iPcP	Z 00 48				-		
	isP	Z 01 05.0				-		
29	iP	Z 21 04 02				+		USCGS: 41.8S 79.7E h = 33km
	isP	Z 04 16				+		
	iPP	Z 04 42				-		
	iPPF	Z 05 00						
30	iX	Z 09 59 38				-	USCGS: 27.6N 57.7E h = 25km	
30	eX	Z 12 26 50						
30	eX	Z 13 19 48						
<u>JULY</u>								
1	iP	Z 01 44 17.0				-		USCGS: 14.1S 167.2E h = 156km
	ipP	Z 44 58				-		
1	iP	Z 05 19 39				+		USCGS: 23.8S 176.9W h = 25km
	ipP	Z 19 48				-		
	isP	Z 19 52				+		
2	eP	Z 06 51 12						
	e(pP)	Z 52 44						
2	iP	NEZ 08 45 08	+	+	+			USCGS: 10.3S 165.9E h = 50km
	isP	Z 45 19				-		
	iX	Z 47 56				+		
2	iP	Z 15 54 15				+	USCGS: 0.2S 123.1E h = 136km	
3	iP	Z 18 23 04				+		USCGS: 56.3S 142.5W h = 25km
	ipP	Z 23 09				+		
	iPP	Z 25 02						
	esS	E 51				+		
3	iP	Z 18 31 56				+		
	ipP	Z 32 03				-		
	eS	NE 39 42	-	+				
4	i(P)	Z 23 29 03				+		USCGS: 28.5S 177.5W h = 25km
	iX	Z 29 36						
6	iP	Z 02 24 13				+		USCGS: 13.3N 58.0E h = 30km
	iPcP	Z 24 20				+		
	esP	Z 24 29						
	iX	Z 25 54						
6	iP	Z 12 24 41						USCGS: 16.5S 174.1W h = 27km
	ipP	Z 24 49				+		
6	eP	Z 13 39 46						USCGS: 25.0S 176.7W h = 25km
	ipP	Z 39 53				+		
6	iP	Z 17 19 51						

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
JULY	(continued)	h. m. s.	s.				km	
6	iP Z	23 19 12				+		USCGS: 36.6N 70.4E h = 203km
	ipP Z	20 09				-		
	iPP NEZ	23 30		+	-	+		
	ipPP NEZ	24 11		-	+	-		
	eSKS NE	29 29						
	iX N Z	29 39		-		-		
	eSKKS NE	30 11						
	e(S) NE	30 35						
	esS NE	32 13						
	ePKKP Z	35 00						
	eSS NE	37 57						
7	iPKP Z	06 32 18				+		USCGS: 51.3N 178.6E h = 60km
	ipPKP Z	32 41				-		
	esPKP NEZ	32 48						
	iPP Z	35 33				-		
	iSKP Z	35 50				-		
	eSKS Z	39 22						
7	iP Z	11 58 54				+		USCGS: 7.3S 128.3E h = 30km
	i { sP } Z	59 08						
	(PcP) Z							
8	iP Z	04 11 40				+		USCGS: 55.5S 30.1W h = 25km
8	iX Z	21 01 31				+		
8	iP Z	23 06 25				-		USCGS: 28.1S 176.5W h = 25km
	ipP Z	06 33				-		
9	iP Z	10 06 58				+		USCGS: 56.0S 158.1E h = 25km
	ipP Z	07 07				-		
10	i(P) Z	01 07 10				+		
10	i(P) Z	02 29 54				+		
10	iP Z	04 32 16				-		USCGS: 39.1S 75.4W h = 25km
	ipP Z	32 24.5				-		
10	iP Z	05 23 22				+		USCGS: 20.8S 178.7W h = 584km
	iPcP Z	23 29				+		
	ipP Z	25 20				+		
10	iP Z	13 07 39.0				-		USCGS: 22.3S 177.2W h = 333km
	ipP Z	07 51.0				-		
11	ePKP Z	07 36 51.0						USCGS: 53.2N 159.6E h = 69km
	i(pPKP) Z	37 02.0				+		
11	iP Z	12 53 28				+		USCGS: 11.9N 122.1E h = 25km
	iPcP Z	53 35				+		
	ipP Z	53 38				-		
12	i(P) Z	09 36 16				+		
12	i(P) Z	16 37 40				+		
13	iP Z	03 40 45				-		USCGS: 10.2N 121.7E h = 157km
	eP Z	03 44 56						USCGS: 10.4N 122.6E h = 66km
13	e(P) Z	08 27 26						
13	iP Z	21 54 28						
13	iPKP Z	22 38 52				-		USCGS: 56.2N 164.0E h = 59km
14	iPKP Z	01 22 29				+		USCGS: 51.5N 179.0E h = 25km
14	e(P) Z	13 00 17						
14	ePKP Z	20 57 14						USCGS: 50.2N 155.8E h = 60km

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
JULY	(continued)	h. m. s.	s. 0				km	
15	iPKP	Z 07 06 05				-		USCGS: 39.8N 140.9E h = 103km
	ipPKP	Z 06 31				+		
15	iP	Z 09 35 24				+		
16	iP	Z 02 12 16				-		USCGS: 52.1S 138.9E h = 14km
	ipP	Z 12 21				+		
	eS	NE 18 17						
16	i(P)	Z 03 39 54						
16	iP	Z 08 40 36				-		USCGS: 11.8S 166.4E h = 57km
	iPcP	Z 40 40				+		
	ipP	Z 40 50				-		
16	iP	Z 09 38 02				+		USCGS: 13.0S 167.2E h = 180km
	ipP	Z 38 41				-		
16	i(P)	Z 11 20 51				+		
16	iPKP	Z 13 14 40				+		USCGS: 62.3N 153.1W h = 39km
	iPKP ₂	Z 15 32				+		
	ipPKP ₂	Z 15 50				-		
	i(SKS) ₂	Z 21 11				+		
16	iP	Z 16 28 38				+		USCGS: 34.8S 108.6W h = 25km
	ipP	Z 28 44				+		
17	iP	Z 05 42 50				+		USCGS: 43.0S 74.9W h = 26km
	eS	NE 51 36						
17	i(PP)	Z 10 02 14				+		USCGS: 14.8N 92.9W h = 120km
18	iP	Z 06 04 48				-		USCGS: 9.6S 119.8E h = 68km
	ipP	Z 05 06.0						
18	iP	Z 09 33 58				+		USCGS: 7.2S 119.9E h = 58km
	ipP	Z 35 53				+		
18	i(P)	Z 18 36 38				+		
	i(pP)	Z 36 40				+		
19	iP	Z 01 04 48				+		USCGS: 5.1S 153.6E h = 49km
	ipP	Z 05 02				-		
19	i(P)	Z 12 14 34				-		USCGS: 20.6S 68.7W h = 160km
20	eP	Z 16 39 42						USCGS: 21.0S 174.8W h = 28km
	epP	Z 39 51						
21	e(P)	Z 08 18 28						
21	e(P)	Z 10 35 22						
22	iP	Z 00 33 58				+		USCGS: 5.9S 151.7E h = 81km
	ipP	Z 34 17						
22	e(P)	Z 07 56 12						
22	iP	Z 13 49 14				+		USCGS: 8.4S 158.8E h = 107km
22	iP	Z 18 20 56				+		USCGS: 24.0S 180.0 h = 634km
23	iP	Z 07 31 42				-		USCGS: 22.9S 67.8W h = 193km
23	e(P)	Z 11 21 46						
23	e(P)	Z 15 09 37						
23	iP	Z 23 21 25				+		USCGS: 14.1S 166.8E h = 99km
	iPcP	Z 21 28				-		
	ipP	Z 21 43				+		
24	iPKP	Z 21 27 08				+		USCGS: 15.5N 92.5W h = 129km
	i(pPKP)	Z 27 36				-		

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
JULY (continued)		h. m. s.	s.				km	
25	i(PKP)	Z 04 56 58				-		USCGS: 18.9N 81.1W h = 64km
	ipPKP	Z 57 03				-		
26	eP	Z 08 29 50						USCGS: 7.5N 82.7W h = 21km
	ePKP	Z 33 26						
	epPKP	Z 33 37						
	e(PF)	NEZ 34 31						
	eX	Z 36 45						
	eX	Z 44 00						
	eSKKS	NE 50.5						
26	eP	Z 21 39 47						USCGS: 56.4S 25.7W h = 25km
27	iX	Z 02 41 02						
27	iP	Z 06 23 56				+		USCGS: 14.8S 167.6E h = 205km
	ipP	Z 24 46				-		
27	iX	Z 11 27 47				+		
27	iPKP	Z 12 58 17				+		USCGS: 51.6N 174.1W h = 60km
	e(PKP ₂)	Z 58 32				+		
	iX	Z 13 03 10				+		
27	iP	Z 19 38 34				+		USCGS: 13.2S 167.1E h = 286km
28	iP	Z 00 17 56				-		USCGS: 16.2S 173.2W h = 40km
28	iP	Z 06 13 50				+		USCGS: 31.0S 67.8W h = 217km
	ipP	Z 14 41				+		
28	eX	Z 20 59 12						
29	iP	Z 18 29 44				+		USCGS: 41.4S 173.2E h = 75km
30	iP	Z 17 29 12				+		USCGS: 3.3S 143.9E h = 25km
	ePP	Z 32 16						
	eS	NE 39 30						
	G	N 53.6						
30	eP	Z 20 33 29						USCGS: 5.0N 76.3W h = 45km
	ePP	Z 36 52						
	ePS	NE 45 33						
	eX	NE 47 25						
	eX	Z 48 55						
	eX	NE 53 32						
31	iP	Z 02 31 35				+		USCGS: 3.2S 144.1E h = 20km
31	iP	Z 05 26 29				+		USCGS: 18.8N 120.8E h = 39km
AUGUST								
1	iP	Z 04 00 57				+		USCGS: 27.0S 176.4W h = 33km
1	iP	Z 04 49 58				-		USCGS: 5.5N 125.3E h = 33km
	ipP	Z 41 07				-		
1	iP	Z 04 49 24				-		USCGS: 3.2S 143.7E h = 33km
	i(pP)	E 34				+		
	ipPcP	NE 47				-	+	
	ePP	Z 52 43						
	iPPP	Z 54 44				+		
	eS	NE 59 43				-	-	
	L	NE 05 13.2						
1	iP	Z 05 33 09				-		USCGS: 27.1S 176.3W h = 34km
	ipP	Z 33 21				+		

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
AUGUST (continued)		h. m. s.	s.				km	
1	iP ipP	Z Z	12 59 32 59 44			+ -		USCGS: 27.1S 176.3W h = 33km
2	e(P) i(P)	Z Z	09 23 28 13 09 12			+ +		
3	iP epP iSKS iS isS iPS	NEZ Z Z NE Z NE	09 08 27 08 49 18 27 18 34 18 58 19 32	- + -	- - -	- - -		USCGS: 23.2S 67.5W h = 71km
3	iP epP	Z Z	10 17 09 17 12			+ -		USCGS: 10.1S 161.2E h = 40km.
3	iP ipP	Z Z	10 28 07 28 28			- -		USCGS: 23.3S 171.2E h = 39km
3	eP epP	Z Z	12 12 36 12 43			- -		USCGS: 55.8S 27.3W h = 33km
5	iP iPcP ipP	Z Z Z	15 20 54 20 58 21 12			- + -		USCGS: 13.7S 166.6E h = 60km
6	iP iPP iPPP iX	Z Z Z Z	08 48 28 49 57 50 16 54 25			- - - -		USCGS: 58.4S 25.5W h = 54km
6	iP iS	NEZ E	21 03 40 13 18	+ -	- -	- -		USCGS: 26.9S 177.1W h = 50km
6	e(P) i(pP)	Z Z	22 31 24 33 26			- -		
7	iP	Z	08 57 18			+ -		USCGS: 4.8N 127.8E h = 33km
7	eX	Z	14 37 46			- -		
8	iP	Z	09 31 06			+ +		USCGS: 16.4S 179.5W h = 493km
8	iPKP	Z	11 14 26			+ +		USCGS: 52.1N 170.3W h = 40km
8	iP ipP	Z Z	12 12 17 12 25			- +		USCGS: 17.8S 168.0E h = 30km
8	iP ipP	Z Z	12 24 27 24 35			- +		USCGS: 17.9S 168.0E h = 33km
8	iP ipP	Z Z	13 47 15 47 24			+ -		
9	iP ipP	Z Z	06 31 56 32 31			- -		USCGS: 24.1S 66.5W h = 128km
11	iP ipP	Z Z	01 58 54 02 01 05			+ -		USCGS: 20.0S 178.8W h = 638km
11	iP	Z	18 24 20			+ -		USCGS: 6.6S 130.3E h = 173km
12	iP	Z	10 45 16			- -		USCGS: 58.2S 25.1W h = 33km
13	ePPP	Z	10 32 50			- -		USCGS: 14.6N 93.0W h = 118km
14	iP ipP) iPP) isP eS L	Z Z Z Z Z NE	01 19 32 19 42 19 48 26 38 32.8			- - - -		USCGS: 49.9S 163.0E h = 43km

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
AUGUST (continued)		h. m. s.	s.				km	
14	iP	Z	20 05 28			-		USCGS: 9.3S 110.3E h = 182km
15	iPKP	Z	08 38 59			+		USCGS: 54.6N 161.5E h = 52km
	ipPKP	Z	39 14			+		
15	iPKP	Z	10 25 50			-		USCGS: 45.2N 132.6E h = 37km
15	iPKP	Z	11 40 23			-		USCGS: 51.8N 177.0W h = 53km
	ePKP ₂	Z	40 36					
17	iPKKP	Z	03 35 10			+		USCGS: 7.9N 71.4W h = 17km
18	iP	Z	23 02 14			+		USCGS: 7.3S 156.1E h = 60km
19	iP	Z	00 35 14			+		USCGS: 19.9S 66.9W h = 240km
19	iP	Z	23 24 55			-		USCGS: 26.6S 69.8W h = 51km
	eS	NE	34 50					
20	iP	Z	13 08 49			+		USCGS: 12.4S 112.1E h = 87km
	iX	Z	08 41			+		
	i(pP)	Z	09 02			-		
20	iP	Z	23 30 55			-		USCGS: 14.7S 166.6E h = 52km
21	iP	Z	16 21 44			+		USCGS: 28.2S 176.7W h = 57km
	ipP	Z	21 57			+		
	iPcP	Z	22 00			+		
21	iP	Z	17 17 24			-		USCGS: 15.5S 172.6W h = 33km
21	i(P)	Z	18 59 21			+		USCGS: 41.5N 15.4E h = 36km
	iP	Z	21 17 32			-		USCGS: 28.7S 176.8W h = 55km
21	ipP	Z	17 47			+		
	iPcP	Z	17 53			-		
	ipPcP	Z	18 07			-		
	iPP	Z	22 12			-		
	ipPPP	Z	22 27			+		
	isPPP	Z	22 35			+		
	L	NE	51.1					
21	iP	Z	22 16 16			-		USCGS: 28.8S 176.5W h = 55km
	epP	Z	16 29					
22	eP	Z	05 41 00					
	ipP	Z	41 11			+		
22	iP	Z	11 18 23			+		USCGS: 49.7S 117.5E h = 33km
	iX	Z	29			-		
	ipP	Z	18 34			+		
22	iP	Z	12 17 29			-		USCGS: 28.6S 176.7W h = 56km
	ipP	Z	17 44			-		
	isP	Z	17 54			+		
23	iPKP	Z	12 55 10			+		USCGS: 51.7N 173.8E h = 33km
	ipPKP	Z	55 21			+		
23	iPP	Z	15 48 16			+		USCGS: 22.9N 120.8E h = 17km
23	iP	Z	21 00 26			+		USCGS: 56.1S 26.6W h = 33km
	iPP	Z	03 30					
	eS	NEZ	06 10			+		
24	iP	Z	06 58 06			+		USCGS: 24.5S 178.8E h = 526km
	iPcP	Z	58 28			+		
	ipP	Z	59 09			+		
24	iP	Z	09 17 11			-		USCGS: 15.0S 173.3W h = 33km
	iPcP	Z	17 14			+		
	ipP	Z	17 21			-		
	L	NE	27.5					

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	
24	iP	Z	13 28 22			-		USCGS: 17.5S 70.4W h = 92km
	ipP	Z	28 47			-		
25	iP	Z	08 43 08			+		USCGS: 20.5S 178.5W h = 561km
	ipP	Z	45 11			+		
	eS	NEZ	52 30	-	-	+		
	esS	NE	56 07	+	+			
26	iP	Z	08 10 20			-		USCGS: 00.1N 121.3E h = 185km
26	iP	Z	23 42 54			+		USCGS: 3.7S 140.1E h = 50km
	ipP	Z	43 11					
27	iPKP	Z	02 37 20			+		USCGS: 40.2N 137.8E h = 274km
	ipPKP	Z	38 28					
27	iPKP	Z	16 38 52			-		USCGS: 38.3N 142.4E h = 40km
	ipPKP	Z	39 04			-		
27	iP	Z	23 41 07					USCGS: 6.0S 149.5E h = 48km
	iPcP	Z	41 12					
	ipP	Z	41 19					
28	iP	Z	00 52 51			-		USCGS: 15.7S 173.1W h = 33km
28	iP diff.	Z	11 14 17			+		USCGS: 38.0N 23.1E h = 120km
	iTKP	Z	18 15			+		
	ipPKP	Z	18 47			-		
	e(SKS)	Z	29 20					
28	iP	Z	22 56 46					USCGS: 02.2S 67.8E h = 33km
29	iP	Z	09 22 44			+		USCGS: 1.9S 67.9E h = 33km
30	iP	Z	11 47 04			-		USCGS: 34.0N 139.1E h = 33km
30	iP	Z	17 30 10			+		USCGS: 21.2S 174.4W h = 33km
	ipPcP	Z	30 26			+		
	isPcP	Z	30 32					
30	iP	Z	19 14 40			+		USCGS: 47.7S 32.6E h = 33km
	iPP	Z	15 14			+		
	e(S)	Z	19 28					
31	i(P)	Z	05 55 12			-		
31	iPKP ₂	Z	17 22 20			+		USCGS: 51.3N 179.7W h = 59km
	ipPKP ₂	E	22 40		+			
31	iPKP	Z	18 15 44			+		USCGS: 51.2N 179.9W h = 43km
	i(SKSP)	Z	16 25					
<u>SEPTEMBER</u>								
1	iPKP	NEZ	04 05 40	-	+	+		USCGS: 51.3N 179.7W h = 25km
1	iPKP	Z	04 17 57			+		USCGS: 51.1N 180.0 h = 33km
	iPKP ₂	Z	18 05			+		
	ipPKP	Z	07			-		
1	iPKP	Z	05 01 46					USCGS: 15.9S 168.2E h = 244km
	iPP	Z	04 02					
	iSKSP	NEZ	13 53	-	-	-		
1	iPKP	Z	08 01 44			-		USCGS: 51.2N 180.0 h = 33km
	ipPKP	Z	55					
1	iPKP	Z	08 10 43			+		USCGS: 51.3N 179.9W h = 42km
	esFKP	Z	11 09					

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	Z	15 14 13					USCGS: 25.8N 65.3E h = 46km
1	iP	Z	19 34 38			+		USCGS: 35.6N 50.0E h = 21km
	ipP	Z	34 48			+		
	isP	Z	53			+		
	ePP	NEZ	39 02					
	eSKS	NEZ	45 18					
	eS	E	46 38		-			
	eSS	NE	53 46					
	eSSS	NE	56 38					
	L	NE	20 05.5					
2	iPKP	Z	03 22 05			+		USCGS: 51.3N 179.8W h = 26km
	ipPKP	Z	22 10			+		
2	iP	Z	15 32 57			-		USCGS: 10.2S 120.3E h = 33km
	epP	Z	33 07					
2	iP	Z	16 25 28			-		
	ipP	Z	26 00			-		
2	eP	Z	20 27 14					
3	iP	Z	22 13 36			+		USCGS: 56.6S 27.2W h = 33km
	isP	Z	13 50			+		
5	iP	Z	11 29 16			-		USCGS: 3.3S 139.9E h = 110km
	ipP	Z	29 40			+		
5	iPKP	Z	16 24 24			+		USCGS: 40.7N 112.0W h = 14km
	ipPKP	Z	24 30			+		
	isPKP	Z	24 32			+		
6	iP	Z	11 01 10			-		USCGS: 21.2S 174.5W h = 110km
	iPcP	Z	20			-		
	ipP	Z	38			-		
6	eP	Z	11 22 38			-		USCGS: 4.0S 126.4E h = 33km
	iPcP	Z	22 52			-		
6	iP	Z	15 15 24			+		USCGS: 8.4S 158.8E h = 95km
	i(PcP)	Z	35			-		
	ipP	Z	15 51			-		
	isP	Z	16 00			-		
6	iP	Z	18 17 30					USCGS: 31.8S 178.8W h = 81km
7	iP	Z	07 53 16			-		USCGS: 6.3S 130.0E h = 180km
	ipP	Z	54 01			+		
9	iP	Z	03 34 50			-		USCGS: 15.6S 73.4W h = 98km
10	iP	Z	15 55 07			-		USCGS: 21.1S 179.2W h = 640km
	ipP	Z	57 20			+		
	(iPP)	Z	58 27			-		
	(isP)	Z						
	(iS)							
	(iSKS)	NEZ	16 04 24	+	+	-		
	esS	N	08 16	+				
10	iP	Z	18 01 54			-		USCGS: 17.5S 173.6W h = 33km
	ipP	Z	02 04			+		
11	iP	Z	00 45 34			-		USCGS: 6.1S 149.4E h = 62km
	epP	Z	45 47					
11	iP	Z	02 37 11			+		USCGS: 15.2S 173.4W h = 33km
	epP	Z	37 21					
13	i(P)	Z	19 27 49			+		
	i(pP)	Z	28 00			-		

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
SEPTEMBER (continued)		h. m. s.	s.				km	
13	eP	Z 21 10 58						USCGS: 36.5N 69.2E h = 50km
	ePP	Z 15 18						
14	iP	Z 17 34 14				+		USCGS: 26.6S 178.5W h = 449km
	ipP	Z 35 26				-		
14	iP	Z 18 29 34				+		USCGS: 19.9S 177.6W h = 350km
	ipP	Z 31 00				-		
15	ePKP	Z 23 09 51						USCGS: 48.5S 156.8E h = 33km
	epPKP	Z 10 01						
	iPP	Z 12 39				-		
	ipPP	Z 12 58				+		
	eSKSP	Z 22 16						
16	i(P)	Z 03 24 22	X			+		
16	iPKP	Z 05 56 01	K			-		USCGS: 35.8N 118.1W h = 10km
16	iX	Z 21 29 55				+		
16	iX	Z 22 39 52				-		
17	iPKP	Z 01 30 47				-		USCGS: 64.3N 149.3W h = 63km
	ipPKP	Z 53				+		
	iPKP ₂	Z 32 33				-		
17	eP	Z 18 07 56						USCGS: 21.0S 179.1W h = 601km
	epP	Z 09 02						
18	iP	Z 20 23 32	K			-		USCGS: 21.0S 169.9E h = 81km
19	ePKP	Z 01 42 20						USCGS: 52.3N 173.4W h = 33km
	e ^(PKP) _(PKP₂)	Z 42 30						
19	iP	Z 08 01 58				-		USCGS: 11.5N 141.0E h = 61km
	iX	Z 02 10						
	i(pP)	Z 02 16						
19	iP	Z 18 17 43				-		USCGS: 9.9S 120.5E h = 34km
21	i(PKP)	Z 05 24 17				-		USCGS: 51.4N 178.0W h = 33km
21	iPKP	Z 09 28 22				-		USCGS: 51.4N 178.3W h = 33km
	iPKP ₂	Z 28 30				+		
	ipPKP	Z 28 34				+		
21	i(P)	Z 16 16 14				+		
21	i(P)	Z 19 20 38				+		
21	iP	Z 22 47 35				+		USCGS: 57.7S 64.1W h = 51km
	i(PP)	Z 49 20				+		
	ePPP	Z 49						
22	i(PKP)	Z 03 58 14				+		USCGS: 51.1N 177.9E h = 33km
22	iP	Z 06 56 04				-		USCGS: 24.3S 67.1W h = 168km
22	iP	Z 15 18 42				+		
23	iP	Z 07 05 02				+		USCGS: 26.5N 97.0E h = 33km
	ipP	Z 05 09				-		
	iPP	Z 08 56				-		
23	iPSP	Z 08 35 28				+		USCGS: 36.4N 69.0E h = 33km
24	i(P)	Z 10 03 38				+		
24	iP	Z 14 08 50				-		USCGS: 23.5S 67.1W h = 162km
	ipP	Z 09 24				-		
24	i(P)	Z 14 30 24				-		

Date 1962	Phase	Time (G.M.T.)	Per	Amplitude			△	Remarks
				A _N	A _E	A _Z		
SEPTEMBER (continued)		h. m. s.	s.				km	
24	iPKP	Z 14 57 22				-		USCGS: 42.8N 145.3E h = 33km
	ipPKP	Z 14 57 31				-		
24	i(P)	Z 20 58 34				+		
24	i(P)	Z 21 32 50				-		
24	iP	Z 22 13 02				-		USCGS: 0.2N 124.0E h = 155km
25	iP	Z 00 30 52				+		USCGS: 55.6S 124.3W h = 57km
	ipP	Z 00 31 13				+		
	iPcP	Z 00 31 34				-		
25	iP	Z 04 59 06				-		USCGS: 7.4S 34.9E h = 33km
	isP	Z 04 59 20				+		
25	eP	Z 07 42 06				-		USCGS: 24.0S 176.6W h = 33km
	ipP	Z 07 42 16				-		
	isP)	Z 07 42 23				-		
	iPcP)	Z 07 42 23				-		
	ipPcP	Z 07 42 30				-		
26	i(P)	Z 04 15 02				+		
26	iP	Z 12 56 31				+		USCGS: 27.5S 176.4W h = 33km
	i(PF)	Z 13 00 11				-		
26	iX	Z 14 11 54				+		
26	iP	Z 15 54 57				+		USCGS: 15.2S 72.4W h = 276km
	ipP	Z 15 57 18				+		
	iPPP	Z 16 00 51				+		
26	i(P)	Z 21 46 12				+		
	i(pP)	Z 21 46 20				-		
26	i(P)	Z 22 46 24				+		
27	i(P)	Z 00 34 12				+		
27	iP	Z 06 58 54				+		USCGS: 47.4S 34.3E h = 33km
	ipP	Z 06 59 04				+		
	ePP	Z 06 59 28						
27	eP	Z 07 00 20						USCGS: 31.2S 67.9W h = 71km
27	iP	Z 08 03 08				-		USCGS: 17.9S 64.9W h = 120km
	ipP	Z 08 03 43				+		
27	iP	Z 12 43 34				+		USCGS: 18.4S 68.7W h = 59km
27	iP	Z 13 36 42				+		USCGS: 17.6S 178.9W h = 507km
	ipP	Z 13 38 38				+		
29	iP	NEZ 15 28 44		-	-	-		USCGS: 27.0S 63.6W h = 575km
	iPcP	Z 15 28 56				-		
	ipP	Z 15 30 44				-		
	eS	NE 15 37 48						
	esS	NE 15 41 20						
	eX	Z 15 46 03						
30	i(P)	Z 08 31 15				-		
30	iP	Z 11 00 44				+		USCGS: 5.2S 152.7E h = 33km
	isP	Z 11 01 05						
30	iP	Z 22 10 48				+		USCGS: 5.9S 151.0E h = 50km

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>OCTOBER</u>								
		h. m. s.	s.				km	
1	iP	Z 04 08 26				-		USCGS: 17.5S 178.9W h = 550km
	ipP	Z 10 21				+		
1	i(P)	Z 07 15 59						
2	iP	Z 20 04 12				+		USCGS: 2.1N 126.2E h = 35km
	isP	Z 04 25				-		
4	iP	Z 20 47 11				-		USCGS: 5.1S 151.9E h = 33km
	ipP	Z 47 21				-		
	isP	Z 47 25				-		
5	i(P)	Z 16 02 09				-		
	i(pP)	Z 02 18				+		
6	iP	Z 04 35 29				+		USCGS: 17.4S 167.7E h = 33km
	eS	NE 45 33		-	-			
	i(PSP)	Z 47 11						
6	iP	Z 08 08 27				-		USCGS: 17.4S 167.9E h = 33km
	ipP	Z 08 37				+		
6	iP	Z 08 15 39				-		USCGS: 17.2S 168.0E h = 33km
	ipP	Z 15 47				+		
6	iP	Z 08 43 56				-		USCGS: 17.3S 167.8E h = 33km
6	iP	Z 11 12 56				-		USCGS: 13.3S 167.3E h = 209km
7	iP	Z 16 07 38				-		USCGS: 57.8S 25.5W h = 33km
	iPcP	Z 09 52				-		
7	iP	Z 16 59 30				+		USCGS: 17.7S 167.5E h = 33km
8	i(P)	Z 01 20 20				+		
8	i(P)	Z 08 49 05				+		
8	i(P)	Z 13 43 32				-		
8	i(P)	Z 17 29 38				-		
8	iP	Z 19 07 02				+		USCGS: 10.3S 161.4E h = 79km
8	eP	Z 22 10 45						USCGS: 24.3N 121.7E h = 29km
	ePP	Z 14 29						
9	i(P)	Z 09 19 45				+		
9	i(P)	Z 16 27 56				+		
	i(pP)	Z 28 03				+		
9	iP	Z 20 27 14				+		USCGS: 3.2S 148.2E h = 33km
	iX	Z 28 23						
10	iP	Z 04 52 31				+		USCGS: 1.6S 66.8E h = 33km
	isP	Z 52 52				+		
10	iP	Z 09 31 50				-		USCGS: 22.2S 179.6W h = 558km
10	iP	Z 11 25 04				+		USCGS: 10.1S 161.3E h = 34km
	iPcP	Z 25 11				-		
	ipP	Z 25 14				-		
10	i(P)	Z 17 37 09				+		
10	iP	Z 13 43 58				-		USCGS: 8.9S 110.3E h = 33km
	ipP	Z 44 09				+		
	iPcP	Z 44 29				+		
	ipPcP	Z 38						
10	eP	Z 21 04 45						USCGS: 34.9S 70.1W h = 137km
	ipP	Z 05 17				+		

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Remarks
				A _N	A _E	A _Z	
OCTOBER (continued)		h. m. s.	s.				km
10	eP	Z 22 05 26					USCGS: 15.1S 173.3W h = 33km
12	i(P)	Z 07 03 15					
12	iP	Z 08 08 32			-		USCGS: 20.4S 68.9W h = 139km
	ipP	Z 09 00			+		
12	iP	Z 17 05 36			+		USCGS: 28.0S 70.6W h = 25km
12	iP	Z 19 15 17			+		USCGS: 28.9S 177.1W h = 134km
	iPcP	Z 15 29			+		
12	iP	Z 20 50 26			-		USCGS: 27.2S 178.0W h = 152km
13	iP	Z 19 00 09			+		USCGS: 12.6S 166.6E h = 33km
	ipP	Z 00 22			+		
14	iP	Z 00 41 01			+		USCGS: 33.4S 179.3W h = 33km
	ipP	Z 41 12			-		
14	i(P)	Z 03 26 26			+		
14	iPKP	Z 10 34 22			-		USCGS: 31.8S 131.5E h = 33km
	ipPKP	Z 34 30			+		
15	eP	Z 14 11 03					USCGS: 33.1S 178.5W h = 89km
15	iP	Z 20 29 18			+		USCGS: 17.7S 168.3E h = 65km
15	iP	Z 21 33 54			+		USCGS: 65.0S 178.2E h = 33km
15	iP	EZ 23 46 14			-	+	USCGS: 43.5S 169.8E h = 33km
	ipP	Z 46 25			+		
	iPcP	Z 47 11			+		
	iX	Z 47 35			-		
16	iP	Z 03 01 45			+		USCGS: 17.1S 167.7E h = 33km
16	i(P)	Z 03 45 54			+		
	i(pP)	Z 45 59					
16	iP	Z 05 33 34			-		USCGS: 17.1S 167.6E h = 33km
	ipP	Z 33 45			+		
16	iP	Z 07 22 59			-		USCGS: 28.3S 62.5E h = 33km
	ipP	Z 23 08			+		
	isP	Z 23 15			-		
	iPP	Z 24 39			+		
	iX	Z 25 09			-		
16	iP	Z 10 02 22			-		USCGS: 18.9S 169.4E h = 261km
16	iPKP	Z 18 22 15			+		USCGS: 51.6N 175.8W h = 27km
18	iP	Z 04 17 01			+		USCGS: 8.9S 117.0E h = 33km
	ipP	Z 17 08			-		
	iPKPPKP	Z 45 15			-		
18	iPKP	Z 08 59 51			-		USCGS: 46.5N 149.6E h = 140km
	iPP	Z 09 02 58	1 1/2		-		
18	iPKP	Z 11 41 38			+		USCGS: 46.5N 149.5E h = 128km
	iPP	Z 44 44	2		-		
19	iP	Z 04 24 36			-		USCGS: 31.0S 69.4W h = 120km
19	iP	Z 09 47 10			+		USCGS: 56.3S 26.2W h = 86km
19	iP	Z 17 24 52			-		USCGS: 32.9S 179.9E h = 192km
20	iP	Z 05 42 07			-		USCGS: 6.7S 130.1E h = 167km
20	iP	Z 06 46 05			+		USCGS: 17.2S 69.7W h = 153km
21	iP	Z 12 44 36			+		USCGS: 1.5N 127.2E h = 111km

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	
21	iP	Z 13 20 15				-	USCGS: 15.5S 172.3W h = 33km	
	ipP	Z 20 26				-		
21	eP	Z 23 18 30					USCGS: 55.9S 27.8W h = 33km	
22	iP	Z 01 21 19				-	USCGS: 18.1S 177.9W h = 612km	
22	iP	Z 03 58 46				+		
22	iP	Z 04 47 06				+	USCGS: 3.4S 145.3E h = 36km	
22	ePKP	Z 15 42 49					USCGS: 49.8N 155.8E h = 19km	
23	iP	Z 00 38 48				-	USCGS: 15.2S 173.0W h = 33km	
	ipP	Z 38 58				+		
23	iP	Z 16 35 32				+	USCGS: 16.9S 178.8W h = 576km	
	ipP	Z 37 34				+		
25	iP	Z 03 50 51				-	USCGS: 17.8S 176.7E h = 33km	
25	iP	Z 09 46 32				+	USCGS: 3.0N 126.7E h = 33km	
	epP	Z 46 45						
	eS	NEZ 56 42						
25	iP	Z 12 48 53				+	USCGS: 15.4S 179.0W h = 392km	
	iPcP	Z 48 53				-		
25	iP	NEZ 20 13 12	+	-	+		USCGS: 61.4S 154.9E h = 33km	
	ipP	E 13 20		+				
	iPP	NEZ 14 46	-	-				
	eS	NE 18 57						
	L	NE 21.4					Duration: 30 minutes.	
	L max.	E 27.8						
26	iP	Z 07 32 20				-	USCGS: 17.7S 167.5E h = 53km	
	eS	N 42 33						
	L	NE 08 01.0					Small amplitude.	
26	iP	Z 16 06 10				-	USCGS: 55.5S 26.5W h = 33km	
	eS	N 12 17						
26	iP	Z 22 16 39				+	USCGS: 55.7S 26.5W h = 33km	
27	iPP	Z 08 29 10				-	USCGS: 14.0N 90.4W h = 107km	
27	iPKP	Z 16 34 16				-	USCGS: 52.1N 17.1W h = 60km	
28	iP	Z 14 12 22				+	USCGS: 32.3S 178.8W h = 33km	
28	iP	Z 15 12 17				+	USCGS: 0.1N 123.6E h = 61km	
29	eP	Z 15 12 17				+	USCGS: 33.9S 70.7W h = 33km	
30	iP	N Z 01 52 24	+		+		USCGS: 54.2S 9.1E h = 33km	
	iPP	E 53 08		+				
	eS	NE 57 20						
	eSS	NE 58 36						
<u>NOVEMBER</u>								
1	iP	Z 09 58 20				-	USCGS: 23.7S 179.6W h = 525km	
1	ePP	Z 14 03 44					USCGS: 27.2N 70.0E h = 132km	
1	iP	Z 14 18 40				+	USCGS: 14.5S 167.6E h = 204km	
1	iP	Z 15 42 38				+		
1	iP	Z 15 45 49				-	USCGS: 1.9N 133.0E h = 56km	
	eX	Z 16 05 08				-		
	iSS	Z 16 05 08				-		

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	
1	iP	Z	18 04 49			-		USCGS: 1.9N 132.8E h = 36km
2	eP	Z	07 06 22					USCGS: 17.7S 167.5E h = 32km
2	iP	Z	14 57 35			-		USCGS: 10.0S 117.8E h = 33km
	isP	Z	57 48			+		
2	iP	Z	15 23 35			+		USCGS: 10.2S 117.6E h = 33km
	iPcP	Z	23 55			-		
	iPP	Z	25 59			+		
3	iP	Z	01 12 52			+		USCGS: 7.9S 158.3E h = 86km
3	iP	Z	03 23 34			-		USCGS: 10.3S 117.8E h = 33km
	ipP	Z	23 44			+		
	isP	Z	23 46					
3	iP	Z	04 23 34			+		
4	eP	EZ	22 04 13					USCGS: 43.2S 75.6W h = 33km
	eS	Z	12 57					Microseisms.
	L	NE	25.6					
	L Max.	NE	30.6					
6	iP	Z	21 39 19			+		USCGS: 4.9S 152.7E h = 68km
7	iP	Z	16 14 03			-		USCGS: 7.8S 119.8E h = 156km
7	iP	Z	19 08 18			+		
7	iPKP	Z	22 46 04			+		USCGS: 51.5N 176.1E h = 43km
8	iP	Z	00 15 16			-		USCGS: 15.1S 75.6W h = 33km
8	iP	Z	00 58 14			-		
8	iP	Z	09 29 31			-		
8	iP	Z	10 15 34			-		USCGS: 14.7S 167.1E h = 86km
8	iPKP	Z	21 35 26			+		USCGS: 52.0N 174.9E h = 33km
	ipPKP	Z	35 37			-		
10	iP	Z	06 24 40			+		
11	iP	Z	07 47 20			-		USCGS: 23.9S 69.5E h = 33km
11	iPKP	Z	11 50 48			+		USCGS: 55.8N 113.1E h = 33km
	ipPKP	Z	50 57			-		
11	eP	Z	15 28 12					USCGS: 17.2N 40.7E h = 34km
11	iP	Z	16 22 17			+		USCGS: 12.9S 166.5E h = 77km
	iX	Z	22 31			+		
11	iP	Z	22 24 57			+		USCGS: 43.2S 76.0W h = 33km
	eP ¹ P ¹	Z	53 26					L very small amplitude.
12	iPKP	Z	19 52 14			+		USCGS: 51.5N 178.4W h = 57km
13	iPKP	Z	10 16 02			+		USCGS: 52.9N 166.7W h = 69km
	ipPKP	Z	16 17			-		
13	iP	Z	21 55 21			+		USCGS: 56.9S 29.0W h = 33km
14	iP	Z	07 35 37			+		USCGS: 35.6N 140.8E h = 60km
	iP	Z	08 06 46			+		
15	iP	Z	16 20 31			+		USCGS: 38.4S 73.6W h = 33km
	iX	Z	20 38			-		
	L Max	NE	36.9	13				Small amplitude L.
15	eP	Z	16 37 23					USCGS: 6.9S 146.7E h = 40km
	epP	Z	37 37					

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
NOVEMBER (continued)								
		h. m. s.	s.				km	
15	iP	Z 23 38 54				-		USCGS: 8.7S 79.8W h = 45km
	L Max.	NE 24 19.3	19					Small amplitude L.
16	iP	NEZ 07 30 37	1			-		USCGS; 32.3S 111.1W h = 43km
	eS	NE 40 55	8	+	-			
	esS	N 41 22		-				
	eSS	N 46 18		+				
	L	E 53.5	50					
	L Max.	N 08 04.2	27					
16	iP	Z 21 22 30				-		USCGS: 13.5N 93.2E h = 33km
	iX	Z 23 04				-		
	eS	NE 32 48	5	-	-			
	esS	E 33 01			+			
	L	E 55.8						Small amplitude L.
17	iP	Z 14 32 45				+		USCGS: 2.8N 121.7E h = 609km
	ipP	Z 34 55				+		
17	iP	Z 20 04 18				+		
	iX	Z 04 32				-		
17	iX	Z 23 04 05	1½			-		
18	iP	Z 06 55 11				+		USCGS: 0.2S 125.1E h = 56km
19	eP	Z 10 24 52						USCGS: 50.0S 114.3W h = 33km
	L	NE 42.2						
	L Max.	NE 46.6	18					
19	iX	Z 14 06 02				+		USCGS: 60.7S 152.9E h = 33km
19	iP	Z 16 06 39				+		
20	iP	Z 05 00 01				+		
20	i(P)	Z 07 43 38				+		
20	ePKP	Z 07 52 19						USCGS: 56.2N 159.3E h = 33km
20	iP	Z 10 23 40				+		USCGS: 6.1S 154.5E h = 69km
	ipP	Z 23 47						
20	i(P)	Z 12 54 00				+		
20	iP	Z 13 12 10				+		USCGS: 1.8N 126.4E h = 109km
	ipP	Z 12 20				+		
20	i(P)	Z 16 21 11				+		
	i(pP)	Z 21 28				+		
21	i(P)	Z 17 46 06				-		
21	iP	Z 19 51 35				+		USCGS: 21.1S 179.2W h = 626km
	iX	Z 51 47				+		
	iX	Z 51 59				-		
21	i(P)	Z 22 36 41				-		
22	iP	Z 07 49 28				+		USCGS: 18.2S 167.6E h = 33km
	ipP	Z 49 41				-		
22	i(P)	Z 10 43 37				+		
22	iP	Z 20 44 17				+		USCGS: 30.2S 178.6W h = 298km
23	iP	Z 00 06 48				-		USCGS: 24.1S 176.8W h = 391km
23	iP	Z 00 43 22				-		
23	iP	Z 00 57 57				-		USCGS: 15.0S 75.7W h = 40km
23	iP	Z 14 38 11				+		
24	iP	Z 08 22 41				-		USCGS: 18.5S 175.4W h = 33km
	ipP	Z 22 51				+		

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>NOVEMBER (continued)</u>		h. m. s.	s.				km	
24	iPKP	Z 16 11 34				-		USCGS: 49.5N 155.8E h = 85km
	iX	Z 11 47				+		
	e(PKS)	Z 15 25						
24	iP	Z 17 35 37						USCGS: 2.5S 148.9E h = 32km
25	iP	Z 14 38 20				+		
26	iP	Z 06 22 35				+		
26	iP	Z 16 10 52				-		USCGS: 23.8S 175.8W h = 19km
	ePKKP	Z 29 28						
27	iP	Z 07 22 37				-		
	ipP	Z 22 58				+		
27	iX	Z 09 17 46				+		
27	eP	Z 12 20 22						USCGS: 14.9N 119.9E h = 35km
	ipP	Z 20 32				+		
27	iP	Z 22 01 25						
28	iP	Z 05 13 01				-		USCGS: 22.4S 10.5W h = 33km
	iX	Z 13 18				+		
28	iP	Z 05 19 40				+		USCGS: 22.5S 10.7W h = 33km
28	iP	Z 15 38 07				+		USCGS: 9.9N 93.4E h = 53km
29	iP	Z 07 42 26				+		
	i(pP)	Z 42 31				+		
29	iP	Z 09 16 03				+		USCGS: 22.3S 175.9W h = 33km
29	eP	Z 19 18 26						USCGS: 17.3S 168.5E h = 33km
	L	E 45.9						
30	iP	Z 17 05 45				+		USCGS: 3.2N 127.1E h = 58km
	ipP	Z 06 00				-		
<u>DECEMBER</u>								
1	iPKP	Z 02 10 08				+		USCGS: 52.4N 170.1W h = 38km
	iPKP ₂	Z 10 21				+		
1	iP	Z 04 28 25				+		USCGS: 29.7S 177.7W h = 52km
	ipP	Z 28 43				+		
1	i(P)	Z 11 22 34				+		
1	iP	Z 13 44 06				-		USCGS: 30.8S 71.3W h = 68km
1	iP	Z 21 14 18				-		USCGS: 17.7S 178.7W h = 620km
2	iP	Z 03 25 02				-		
	i(pP)	Z 25 15				+		
2	iP	Z 05 43 19				-		USCGS: 9.9S 159.9E h = 34km
	ipP	Z 43 29				+		
4	iP	Z 10 46 14				+		USCGS: 6.1S 149.9E h = 83km
	ipP	Z 46 48				+		
4	iP	Z 16 52 48				-		USCGS: 16.5S 172.8W h = 33km
4	eP	Z 20 29 28						
5	iP	Z 07 00 00				-		
6	iP	Z 06 54 40				+		USCGS: 45.6S 73.4W h = 33km
6	i(P)	Z 16 53 04				+		

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			Remarks
				A _N	A _E	A _Z	
<u>DECEMBER (continued)</u>		h. m. s.	s.				km
6	iP	Z 22 48 07				+	USCGS: 34.0S 71.1W h = 88km
6	i(P)	Z 23 25 08				+	
7	eP diff.	Z 14 17 30					USCGS: 29.2N 139.2E h = 411km
	iPKP	Z 21 24				+	
	iPP	Z 22 12				-	
	iX	Z 22 40				-	
	iPPP	Z 24 17				+	
	eS	N 29 10		+			
	iX	Z 31 02				-	
	eX	Z 31 10					
8	iP	Z 18 12 53				-	USCGS: 23.6S 69.4W h = 100km
	ipP	Z 13 18				-	
8	iP	Z 18 31 18				+	USCGS: 15.2S 173.7W h = 33km
	ipP	Z 31 31				-	
8	iP	Z 21 38 23				-	USCGS: 25.8S 63.4W h = 620km
	iPcP	N 38 27		+			
	iX	N 38 30		-			
	ipP	N 40 27		-			
	iSKS	N Z 47 32		-		-	
	isS	N Z 51 14		-		-	
	eSS	N 52 58					
8	ePKP	Z 23 14 37					USCGS: 50.5N 176.8W h = 33km
9	iP	Z 14 39 33				+	USCGS: 4.7S 153.7E h = 117km
10	iP	Z 05 03 46				-	USCGS: 28.3S 62.7E h = 33km
10	iP	Z 17 07 42				+	USCGS: 27.2S 176.8W h = 88km
	ipP	Z 07 57				+	
10	iP	Z 23 15 15				+	USCGS: 8.0S 108.6E h = 193km
	iX	Z 15 27				+	
12	iP	Z 10 21 18				+	USCGS: 4.8S 153.8E h = 94km
	ipP	E 21 43				+	
	eSKS	N 31 44					
	ePS	NE 32 21					
12	iP	Z 14 03 35				+	USCGS: 60.3S 25.9W h = 33km
	ipP	Z 03 45				-	
12	iP	Z 23 08 11				-	
13	iP	Z 08 26 03				+	USCGS: 4.7S 153.8E h = 112km
13	iP	Z 09 48 36				-	
13	iP	Z 10 58 17				+	
13	i(P)	Z 15 10 23				-	
13	ePKP	Z 15 18 25					USCGS: 61.4N 147.2W h = 69km
14	iP	Z 09 06 17				+	USCGS: 4.8S 153.8E h = 117km
	ipP	Z 06 42				-	
17	iP	Z 11 11 48				-	USCGS: 2.1N 122.9E h = 393km
	iPcP	Z 12 00				+	
	ipP	Z 13 24				+	
	eS	NEZ 21 22	1				
	iX	Z 41 14	3	-	-	-	
			2				
17	i(P)	Z 19 25 03				-	
17	eX	Z 20 14 28					

Date 1962	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>DECEMBER (continued)</u>						km		
18	iP	Z 10 45 12				+	USCGS: 28.3S 178.2W h = 214km	
	ipP	Z 45 58				-		
18	iP	Z 12 49 32				+	USCGS: 2.7N 129.1E h = 96km	
19	iP	Z 11 12 59				+	USCGS: 31.2S 178.1W h = 28km	
19	iP	Z 13 08 50				+	USCGS: 4.7S 154.0E h = 98km	
	epP	Z 09 14						
20	iP	Z 07 42 43				-		
20	iP	Z 08 45 01				+	USCGS: 20.0S 174.1W h = 33km	
	ipP	Z 45 13				+		
20	iP	Z 08 56 07				-		
20	iP	Z 08 58 29				-	USCGS: 23.4S 179.3E h = 512km	
20	e(P)	Z 11 43 37						
20	iP	Z 18 22 24				-		
20	iP	Z 18 28 14	1			-	USCGS: 61.8S 161.2E h = 29km	
	ePP	Z 29 40	2					
21	iP	Z 00 55 04				-	USCGS: 9.0S 112.4E h = 64km	
	eX	Z 01 23 34						
21	iPKP	Z 06 47 39				-	USCGS: 52.5N 168.7W h = 33km	
	ipPKP	Z 47 47				+		
21	iPKP	Z 09 02 38				-	USCGS: 52.4N 165.5W h = 33km	
21	iPKP	Z 09 20 31				-	USCGS: 52.5N 168.5W h = 33km	
	ipPKP	Z 20 39				-		
21	iPKP	Z 09 29 50				+	USCGS: 52.5N 168.5W h = 33km	
	ipPKP	Z 29 57				-		
21	iPKP	Z 09 52 11				+	USCGS: 42.4N 142.3E h = 27km	
21	iP	Z 09 54 42				+	USCGS: 22.8S 66.5W h = 200km	
25	eX	Z 17 17 06						
26	iPKP	Z 22 44 46				+	USCGS: 53.9N 168.7E h = 33km	
	ePP	Z 48 02						
27	iPKP	Z 00 05 45				-	USCGS: 54.0N 168.8E h = 33km	
27	eP	Z 14 14 22					USCGS: 49.0S 145.1E h = 35km	
28	iP	Z 21 50 14				-	USCGS: 17.1S 14.1W h = 33km	
29	iP	Z 04 24 16	1½			+	USCGS: 2.4N 127.1E h = 33km	
29	i(P)	Z 07 33 54				-		
29	iP	Z 10 53 40	1½			+	USCGS: 20.0S 69.9W h = 46km	
	epP	Z 53 55						
	eS	N 11 04 09	6					
29	iP	Z 14 58 58				-	USCGS: 31.2S 177.9W h = 43km	
	ipP	Z 59 14				+		
30	iP	Z 18 28 48				+	USCGS: 4.7S 133.7E h = 116km	
31	iP	Z 08 01 41				-		
<u>JANUARY 1963</u>								
3	iP	Z 09 52 28				+		

Date 1963	Phase	Time (G.M.T.)	Per.	Amplitude			△	Remarks
				A _N	A _E	A _Z		
<u>JANUARY (continued)</u>			h. m. s.	s.			km	
4	i(P)	Z 07 58 47				+		
5	eP	Z 03 06 28						
6	eP	Z 03 31 19						USCGS: 6.0N 125.3E h = 143km
X 6	iX	Z 19 58 14				+		USCGS: 8.9S 123.8E h = 33km
7	iX	Z 01 53 28				+		
7	eX	Z 04 03 01						
X 7	eP	Z 12 00 32						
X 9	iP	Z 03 25 40				+		USCGS: 18.6N 145.4E h = 192km
X 11	eP	Z 12 22 46						USCGS: 45.0S 75.7W h = 33km
13	eP	Z 17 31 48						USCGS: 32.0S 68.7W h = 113km
X 15	iP	Z 19 37 59				-		USCGS: 20.5S 177.9W h = 496km
19	i(P)	Z 05 22 14						
20	e(P)	Z 15 03 07						
22	e(P)	Z 09 39 34				-		USCGS: 6.0S 112.6E h = 493km
24	eP	Z 12 21 50				-		USCGS: 15.2S 173.6W h = 33km
24	i(P)	Z 12 49 06				-		
27	e(P)	Z 20 36 15						
28	e(P)	Z 11 26 36						
X 28	eP	Z 12 25 02				+		USCGS: 2.6S 149.9E h = 33km
	eS	NE 35 36		-	+			
	L Max.	E 13 00.0						
X 28	ePKP ₁	Z 13 20 44						USCGS: 54.7N 161.6W h = 33km
	iPKP ₁	Z 21 07				+		
	isPKP ₂	Z 21 22				+		
28	eP	Z 16 18 40						USCGS: 31.2S 177.7W h = 33km
X 29	eP	Z 09 27 56						
29	eP	Z 10 17 46						USCGS: 55.6S 28.3W h = 33km
	iX	Z 17 52				+		
	iPPP	Z 20 04				-		
	iX	E 21 49						
	eX	Z 23 34						
	eX	E 24 05						
	iS	NE 24 05						
	eSS	NE 26 31						
	G	N 27.0						
	L Max.	NE 48.0	17					
30	i(P)	Z 18 26 13						

Interpreted by J.C. Branson.

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