Seismograph Station
University of Washington
Department of Geology
Seattle, Washington 98105

Preliminary Readings: World-Wide Standard Seismograph Station, Longmire, Washington

January, 1966

All locations and magnitude determinations are from U. S. Coast and Geodetic Survey
Latitude: 46° 45.0'N Elevation: 2800 ft.
Longitude: 122° 48.6'W Foundation: Volcanic Breccia
T = period and A = peak to peak amplitude for S.P.Z, Magnification 100K

Jan.	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
1	e P Z	00 24 44			Local		
	e P Z	00 25 47			Local		
1	e P Z	01 34 22	0.9	1.6			
1	e P Z	04 04 57	0.9	1.1			
3	i P Z	15 57 16.8	0.8	7.0	15 44 44.9 New Hebrides Islands 18.9 S, 169.4 E	5.4, 249 km	101,000km
3	e P Z	17 22 23					
4	e P Z	22 13 01			Local		
5	e P Z	07 09 03	0.8	0.8	07 01 58 Andreanof Islands 51.2 N, 178.1 W	5.0,33 km	3800 km
5	i P Z	18 21 42.7	0.9	3.2	18 10 00.0 Mariana Is. 21.8 N, 146.6 E	5.6,34 km	4,000 km
	e NE	14 .0					
	e Z	15 .2					
	e Z	16 .7					
	e E	18 27 .0					
6	e P Z	01 57 29	0.8	1.0			
6	e P Z	02 34 28					
	e Z	02 35 03					
	i Z	02 35 39.9	1.0	12.7			
6	i P Z	16 37 09.5	0.7	1.6			
6	i P Z	20 18 15.6	0.5	3.0			
7	e P Z	06 23 20					
	i Z	06 23 22.4	1.0	2.0			
7	i P Z	09 22 19.0	1.3	4.8			
7	e P Z	19 18 31					
7	i P Z	21 05 34.4					
	e ZE	15 .6					
9	i P Z	04 50 15.7					
9	i P Z	09 21 27.8	1.1	2.8	09 11 30.3 Windward Islands 11.5 N, 62.3 W	5.1,156 km	6800 km

Jan.	Phase	Time G.C.T.	T.	A.	Location and origin time		
9	e P Z	14 28 13					
10	e P Z	14 44 51					
10	e P Z	14 53 31					
12	i P Z	12 36 51.2	0.9	2.9	12 29 29.1 Near Coast of Oaxaca,Mex. 15.3 N, 94.4 W	4.7,51 km	4300 km
12	e P Z	12 43 06					
	e E	50 .4					
	e N	12 51 .0					
12	e P Z	20 24 57					
12	i P Z	21 02 05.6			Local		
13	i P Z	07 50 12.0	0.7	1.0			
13	i P Z	10 49 02.0	0.8	12.7	10 41 11.0 Near Is. 52.9 N, 172.0 E	5.6,14 km	4650 km
	e ZN	58 40					
	e E	10 58 44					
	e Z	11 07 30					
13	i P Z	20 51 44.4	0.9	0.8			
	i Z	20 52 05.4					
14	e P Z	20 54 07	1.3	2.7			
14	e P Z	21 47 22					
	i Z	21 47 47.0	0.8	3.8			
15	i P Z	12 04 13.7	3.0	8.0	11 59 58.6 Gulf of Alaska 59.5 N, 144.6 W	5.1,33 km	2100 km
	e S N	07 48					
	e S Z	07 50					
	e S E	07 57					
	e L N	09 15					
	e L Z	09 21					
	e E	09 48					
	e E	14 11					
	e N	12 14 31					
15	i P Z	13 15 30.4	0.6	0.4			
	i Z	13 15 52.9					
15	e P Z	18 41 55			Local		
15	e P Z	18 44 44			Local		
16	e ZNE	00 59 .6					
16	i P Z	09 19 39.9	0.7	1.8	09 11 50.0 Near Islands 52.9 N, 171.9 E	5.7,25 km	4600 km
16	e P Z	15 32 36					
16	e P Z	19 52 52	0.6	0.5	19 44 39.5 Komandorsky Is. 54.9 N, 165.8 E	5.6,15 km	4900 km

Jan.	Phase	Time G.C.T.	T.	A.	Location and origin time		
16	i P Z	23 00 06.9					
17	i P Z	01 32 43.8	1.0	2.0			
17	i P Z	09 42 01.7	0.3	3.4			
	i Z	09 42 04.0					
17	i P Z	17 19 23.9	0.7	19.8			
17	i P Z	18 01 35.6	0.8	3.7	17 49 59.3 Fiji Islands 20.8 N, 178.8 E	5.7,543 km	9500 km
17	e P Z	21 33 48			Local		
18	i P Z	06 38 55.6			06 27 12.7 Fiji Islands 18.6 S, 177.8 W	5.3,364 km	9200 km
18	e P Z	08 47 05					
18	e P Z	13 48 56					
18	i P Z	18 37 36.3	1.0	1.9			
19	i P Z	04 56 23.3	1.1	2.2	04 44 28.9 Near Coast of Peru 17.8 S, 71.3 E	5.1,50 km	8800 km
19	e P Z	09 18 03			Local		
19	i P Z	16 09 16.0	0.8	2.9			
20	e P Z	01 55 56					
20	e P Z	04 40 32			04 27 44.9 New Hebrides Is. 15.1 S, 168.0 E	5.5,28 km	10,200 km
20	i P Z	14 53 55.6	0.8	2.1	14 46 06.2 Near Islands 53.0 N, 171.8 E	5.4,29 km	4700 km
20	e P Z	15 27 57			Local		
20	e P Z	16 38 39			16 32 19.9 Fox Islands 52.4 N, 169.6 W	5.3,19 km	3400 km
20	e P Z	17 43 01	0.6	1.8			
20	e P Z	19 53 12			19 51 26 Queen Charlotte Is. 51.8 N, 130.2 W	33 km	800 km
21	e P Z	03 22 41					
22	e P Z	05 01 16	0.7	1.3			
22	i P Z	07 43 48.1	0.9	4.1	07 36 49.3 Chiapas, Mexico 17.4 N, 94.1 W	4.9,139 km	4150 km
	isP Z	07 44 22.5					
22	i P Z	11 12 25.3	0.6	5.3	11 01 05.3 Fiji Islands 17.9 S, 178.5 W	5.3,598 km	9100 km

Jan.	Phase	Time G.C.T.	T.	A.	Location and origin time		
22	i P Z	14 31 57.5	1.0	13.5			
	e ZNE	36 05					
	e Z	36 24					
	e NE	36 45					
	e NE	37 .4					
	e ZE	38 .3					
	e Z	38 36					
	e N	14 38 44					
22	i P Z	17 20 16.8	0.9	2.2	17 18 37 Off Coast of N. Calif. 41.4 N, 127.6 W	4.5,33 km	900 km
	e S Z	21 .8					
	e L E	17 22 .4					
22	i P Z	17 25 15.0	0.6	1.3	17 23 49 Off Coast of N. Calif. 41.7 N, 126.1 W	4.5,33 km	700 km
22	i P Z	17 35 21.4	0.9	2.9	17 33 50 Off Coast of N. Calif. 41.7 N, 126.1 W	4.3,33 km	700 km
22	i P Z	22 11 55.0	1.0	2.8	22 07 35 Central Alaska 62.1 N, 141.3 W	4.7,46 km	2100 km
23	e P Z	01 04 36	0.7	0.8	00 57 22 Oaxaca, Mexico 16.3 N, 94.9 W	4.6,30 km	4100 km
	i P Z	02 00 11.7	1.0	1.8			
	e ZE	03 06					
	e Z	03 40					
	e Z	04 15					
	e N	04 48					
	e E	02 04 54					
23	e L E	01 14 16					
	e L N	01 14 .5					
	e Z	01 15 .6					
	e NE	01 18 24					
	e L Z	19 .0					
	e E	01 19 38					
23	i P Z	14 05 06.2	0.3	2.1			
	i Z	14 05 16.7					
23	e P Z	14 47 17	0.9	2.1			
23	i P Z	18 13 10.1					
24	i P Z	00 13 24.4	0.6	1.7			
24	i P Z	02 22 45.8	0.7	0.8			
	e Z	24 25					
	e NE	02 24 .6					
24	e P Z	02 26 45			Local		
24	i P Z	02 29 47.8	0.9	4.0			
24	i P Z	02 34 01.0	0.8	1.9			
	i Z	34 23.9					
	e ZNE	02 35 .8					
24	e P Z	02 47 00	0.8	1.8			

Jan.	Phase	Time G.C.T.	T.	A.	Location and origin time		
24	i P Z	02 50 04.5	0.9	1.0			
24	e P Z	02 55 41	0.8	1.4			
24	e P Z	03 00 36	0.9	1.4			
24	e P Z	03 05 06					
24	i P Z	03 11 37.3	0.9	2.0			
24	e P Z	03 16 16	0.9	1.2			
24	e P Z	03 28 43					
24	i P Z	03 38 21.2	0.8	1.1			
24	e P Z	03 44 20	0.8	0.8			
24	i P Z	03 51 59.6	0.8	2.4			
24	e P Z	05 06 57					
24	e P Z	05 24 29					
24	e P Z	06 01 19	0.8	3.6	05 59 41 Off Coast of N. Calif. 41.8 N, 127.6 W	4.6,33 km	800 km
24	e P Z	06 09 01	0.7	1.5			
24	i P Z	06 49 48.1	0.9	4.6	06 48 12 Off Coast of N. Calif. 41.8 N, 127.3 W	4.6,33 km	800 km
24	e P Z	08 28 18			Local		
24	i P Z	19 01 21.7	0.8	2.2			
24	e P Z	19 37 56			Local		
24	i P Z	21 23 31.1	0.7	7.5	21 22 10 Off Coast of N. Calif. 41.9 N, 125.7 W	4.7, 33 km	700 km
25	i P Z	03 28 32.4	0.9	3.6	03 27 00 Off Coast of N. Calif. 41.9 N, 126.9 W	4.2, 33 km	700 km
25	i P Z	05 52 25.2	0.7	2.1			
25	i P Z	18 01 03.3	0.9	0.8			
25	e P Z	21 06 34					
27	i P Z	02 12 56.9	1.0	3.0			
27	i P Z	04 39 48.9	0.7	1.0			
27	i P Z	04 47 15.8	0.7	1.4			
27	e P Z	17 30 31					
27	i P Z	19 46 27.5	0.7	3.8	19 39 04.5 Rat Island 51.1 N, 178.1 E	5.4,41 km	4300 km
27	e P Z	23 40 02					

Jan.	Phase	Time G.C.T.	T.	A.	Location and origin time		
28	e P Z	05 55 12	1.4	3.3			
	e Z	06 01 16					
	e E	05 47					
	e ZN	06 07					
	e ZE	07 02					
	e N	19 06					
	e ZE	06 23 03					
28	i P Z	08 08 48.2	1.2	2.0			
28	i P Z	09 38 56.0	0.9	8.6	09 27 34.3 Fiji Is. Region 17.9 S, 178.5 W	5.4,579 km	9200 km
28	i P Z	10 16 20.8	0.4	5.6	10 15 06.6 Off Coast of Oregon 43.6 N, 127.2 W	5.2,33 km	600 km
	i L Z	10 17 23.1					
28	i P Z	17 22 03.6	0.6	2.7			
	i Z	17 22 09.4					
28	e P Z	18 01 46					
28	i P Z	19 14 10.3	0.8	2.2	19 07 14.4 Andreanof Islands 51.7 N, 177.0 W	5.2,54 km	4,000 km
28	i P Z	22 47 03.0	0.8	5.6	22 38 12.2 Near E.Coast of Kamchatka 51.6 N, 157.0 E	5.6,107 km	5700 km
29	e P Z	16 10 36			16 09 01 Off Coast of N.Calif. 41.5 N, 127.1 W	4.9,33 km	700 km
30	e P Z	15 38 24					
31	i P Z	14 14 12.1	1.0	6.9	14 01 25.4 Salta Prov. Argentina 24.8 S, 64.4 W	5.8,43 km	10,000 km
31	e P Z	15 41 03					

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Latitude: 46° 45.0'N Elevation: 2800 ft.
Longitude: 122° 48.6'W Foundation: Volcanic Breccia

T = period and A = peak to peak amplitude for S.P.Z. Magnification 100K

Feb.	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
2	e P Z	23 26 38			Local		
	i S E	23 27 03.5					
3	ipP Z	00 59 35.0R	0.8	3.3	0 = 00 47 19.2 Chile-Bolivia border 21.7S, 68.4	5.3, 116 km	9,600 km
3	i P Z	17 24 14.3C	0.7	1.8	0 = 1711 17.2 Taiwan 24.0N, 121.8E	5.2, 24 km	10,000 km
4	e P Z	10 51.8			0 = 10 39, 12.2 New Hebrides Is. 15.9S, 167.9E	6.0, 290 km	9900 km
4	e P Z	15 48 52			0 = 15 36 31 Tonga Islands 21.3S, 174.3W	5.0, 27 km	9300 km
5	i P Z	02 14 25.8	1.3	2.5	0 = 02 01 48.3 Greece 39.2N, 22.0E	5.8, 38 km	9800 km
	i Z	14 39.0					
	e PPS N	26 22					
	e PPS Z	26 26					
	e L Z	42 31					
	e N	57 07					
	e Z	02 57 17					
5	i P Z	16 25 05.5R	1.0	4.0	0 = 16 16 01 Kurile Islands 50.2N, 155.1E	5.8, 98 km	5900 km
	e Z	16 38 44					
5	i P Z	17 05 14.7	1.0	2.2	northern		
6	i P Z	10 18 06.0			0 = 10-16 18 Off coast of Calif. 40.2N, 127.3W	4.8, 33 km	800 km
	i P Z	18 07.0	0.6	2.8			
	e L E	19 55					
	e L Z	20 15					
	e L N	10 20 20					
6	i P Z	16 45 41.2C	0.5	4.1			
	i S ZE	16 46 04.1					
6	e P Z	20 22 51					
6	i P Z	23 33 00.8	1.3	5.7			
7	e Z	04 43.5			0 = 04 26 13.9 W. Pakistan 29.8N, 69.7E	6.0, 33 km	11,400 km
	eScSScSZE	05 03.5					
	e L Z	07 45					
	eSKPP°E	08 58					
	e E	15 37					
	e Z	15 55					
	e Z	05:21 50					

Feb.	Phase	Time G.C.T.	T.	A.	Location and origin time		
7	i P Z	08 50 17.0C	0.7	3.3	0 = 08 48 35 Queen Charlotte Is. 51.2N, 130.0W	4.5, 25 km	750 km
	e L ZE	52 13					
	e E	52 29					
	e L Z	08 52 39					
7	i P Z	09 30 43.8R	0.7	1.2			
	i Z	09 30 46.1					
7	e P Z	14 04 39			0 = 14 03 04, Vancouver Is. 51.9N, 128.4W	3.7, 33 km	700 km
	e L ZE	06 38					
	e L ZE	14 07 13					
7	eSKPP°E	23 49 08			0 = 23 06 34.5, W. Pakistan 30.2N, 69.8E	5.8, 10 km	11,400 km
	e L Z	52 53	30.2N,				
	e ZN	23 56.4					
	e Z	00 02 08					
8	i P Z	08 00 04.4C	0.4	0.9	0 = 0758 28, Queen Charlotte Is.	4.5, 33 km	700 km
8	i P Z	10 13 48.7R	1.0	1.7			
8	e NE	17 21.2					
	e Z	21 55					
	e E	17 24 42					
9	i P Z	01 02 54.7R	1.0	1.9			
9	i P°Z	04 59 38.4R					
	e P°Z	05 02 00			0 = 04 40 28.4, S. Sandwich Is. 56.7S, 25.7W	5.9, 27 km	14,600 km
	e P°NE	05 02 04					
	e Z	05 50 48					
	e E	05 50 54					
9	i P Z	13 36 49.1R	0.1	3.8			
10	i P Z	09 29 00.0C	0.2	2.6			
		09 29 08.7					
10	i P Z	14 32 56.8R	1.1	11.7	0 = 14 21 10.9, Mariana Is. 20.8N, 146.3E	6.2, 43 km	8,400 km
	e P ZE	33 07					
	e S N	42 41					
	e S ZE	42 56					
	e L N	52 32					
	e L E	55 54					
	e L Z	55 57					
	e L ZE	14 56.1					
10	i P Z	16 48 24 R	0.4	7.2			
11	e P Z	09 44 07					
11	e P Z	19 34 53					
	i Z	19 35 15					
12	e P Z	05 17 45	0.9	2.0			
	i Z	05 18 06.2					
12	i P Z	21 26 43.1C					
	i Z	21 26 44.7					
13	i P Z	05 10 22.3C	1.0	22.8	0 = 04 57 57.7, E. Kazakh S.S.R. 49.8N, 78.1E	6.3, 0 km	9000 km
13	e L E	10 17 23			0 = 10 00 45 3, Off coast of Mexico 10.5N, 104.2W	4.5, 23 km	4300 km
	e L Z	10 20 41					
13	e Z	11 31 58					
	e E	11 33 56					

Feb.	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	
15	i P Z	00 29 06.4	0.6	0.9			
15	e P Z	01 03 58					
	eSZNE	01 05 00					
15	e Z	01 41 01	1.0	3.0	0 = 01 28 17, Ryerky^{a}. Is. 27.9N, 128.9E	4.7, 33 km	9000 km
15	i P Z	07 34 46.0	0.6	1.0			
	i S NE	35 20.0					
	e S Z	35 21					
16	i P Z	03 31 23.8	1.6	4.0	0 = 03 18 27.2, New Hebrides Is. 17.7S, 167.9E	6.5, 31 km	10,000 km
	e S E	41 50					
	e PSN	43 12					
	e E	54 15					
	e L N	03 55 52					
16	i P Z	03 57 01.5					
	i Z	03 57 09.5					
16	i P Z	12 04 30.7	0.7	1.5			
17	i P Z	12 07 55.6	1.5	4.2			
	i P Z	08 30.3					
	e S	12 33 11					
17	i P Z	13 02 55.4	1.6	1.6			
17	i P Z	17 38 13.5					
	i S NE	17 38 41.6					
18	e Z	12 54 04					
18	i P P Z	19 12 53.0C	1.2	3.3	0 = 19 02 51.5, Japan 44.3N, 143.16	5.2, 225 km	6800 km
18	e P Z	20 07 59			Local		
	i S NE	20 08 02.8					
20	e P Z	12 46 47					
	i Z	12 46 48.8					
21	i P Z	00 41 36.7	1.0	2.2			
	e Z	01 25 21					
21	i P Z	13 31 13.8	1.0	4.8	0 = 13 18 47.0, N.E. Taiwan 26.3N, 125.7E	5.6, 103 km	9400 km
21	i P Z	18 41 35.9	0.2	0.6			
	i Z	18 41 48.0					
21	e P Z	22 14 34			Local		
22	i P Z	05 15 42.0	1.0	2.9			
	e E	26 13					
	e N	26 37					
	e N	26 58					
	e Z	27 51					
	e ZE	28 13					
	e E	33 05					
	e Z	33 37					
	e Z	36 07					
	e E	37.09					
	e N	40 44					
	e ZE	05 44 05					

Feb.	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
22	e P Z	07 40 47			Local		
23	e P Z	00 27 21	0.4	0.7			
23	esP Z	18 24 51	0.8	1.5	0 = 18 10 22, S. Peru 15.4S, 72.7W	4.9, 115 km	8400 km
23	e P Z	20 31 53			Local		
24	i P Z	05 19 48.0	0.7	3.3			
24	e P Z	05 47 51	0.9	2.0	0 = 05 40 06.8, Near Island 52.6N, 172.5E	5.1, 65 km	4700 km
24	e P Z	05 51 37			Local		
24	i P Z	15 57 40.7	1.0	2.7			
24	i P Z	19 57 51.2	1.2	3.5	0 = 19 53 15.4, S. Alaska 60.1N, 147.7W	5.0, 25 km	2200 km
25	e P Z	00 51 05					
25	e P Z	03 18 44					
25	e P Z i Z	14 46 08 14 46 30.2					
26	e P Z	00 41 31	0.8	2.0	0 = 00 33 50.1, Near Is. 52.4N, 173.6E	5.3, 51 km	4600 km
26	i P Z	07 01 55.4	08	2.7			
28	i P Z	02 27 30.6	1.0	6.8			
28	e Z	13 48.7			0 = 13 35 39.0 , Ryukyu Is. 29.2N, 130.1E	5.5, 33 km	9000 km
28	i P Z i Z	16 00 27.7 16 00 44.2	0.4	0.3			

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Latitude: 46° 45.0'N Elevation: 2800 ft.
Longitude: 122° 48.6'W Foundation: Volcanic Breccia
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March	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
1	e P Z	02 45 35	0.6	2.2			
1	i P Z	17 02 08.7	0.6	2.6			
1	i P Z	18 32 40.3	0.6	3.4			
	i Z	18 32 50.8					
1	i P Z	23 27 44.3	1.0	5.8			
2	i P Z	20 51 39.1	0.7	12.2			
	i Z	20 52 01.3					
3	i P Z	03 34 48.7	1.4	4.9	0 = 03 25 28.0 Kurile Is.	5.9, 45 km	6100 km
	e L ZNE	03 51.1			48.3N, 154.3E		
4	i P Z	04 38 00.4	0.4	0.6			
	i Z	04 38 05.0					
4	i P Z	06 24 12.6	1.0	4.7			
4	e Z NE	10 48.0					
5	i P Z	13 52 07.8	1.0	3.0			
6	e E	00 47.0					
	e Z	00 47.4					
6	e P Z	02 29 37					
	e ZE	02 41.0					
	e ZE	03 03.9					
6	e P Z	18 14.6			0 = 18 01 50.0, S. of Fiji Is.	5.4, 33 km	9700 km
	e Z	14 41.8			24.1S, 174.9W		
6	i P Z	22 18 57.8	0.3	3.7			
6	e P Z	23 02 00					
7	i P Z	03 45 13.8	0.3	2.0			
7	e P Z	18 11 29	1.0	2.0	0 = 18 09 43.6, Montana	4.7, 33 km	800 km
	i Z	13 01.6			46.1N, 111.4W		
	e ZNEL	18 13.2					
7	e P Z	20 12 14					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distance
7	i P Z	21 41 36.7	1.0	4.9	O = 21 29 17.0, N.E. China	5.8, 33 km.	9100 km
	e Z	51.1			37.2N, 114.8E		
	e S NE	51.54					
	e Z	21 57.52					
8	e ZE	00 57.1					
8	e Z	01 53.1					
	e N	01 53.7					
8	e Z	06 08.4					
	e ZE	06 29.5					
8	i P Z	18 48 25.1	0.4	45.7			
8	i P Z	20 58 19.6	1.1	7.0	O = 20 46 12.0, Chili-	5.9, 122 km	9200 km
					20.0S, 68.9W, Bolivia border		
8	e P Z	23 39 30					
9	i P Z	06 46 18.7	1.3	2.9			
9	i P Z	13 07 12.0	0.6	1.1	O = 13 06 06, off coast of	4.2, 33 km	450 km
					43.4N, 125.9W Oregon		
9	i P Z	14 06 43.7	0.9	2.0			
10	e P Z	03 18 52					
10	i P Z	04 37 15.0	1.1	7.0	O = 04 26 19.6, S. of Honshu,	5.6, 382 km	8200 km
					32.2N, 137.5E Japan		
10	i P Z	2 27 07.6	0.9	2.3	O = 12 15 19.4, Fiji Islands	5.5, 320 km	9200 km
					19.3S, 177.0W		
11	i P Z	02 00 40.1	1.0	5.2	O = 01 48 34.8, N. Chile	5.3, 115 km	9200 km
					19.5S, 69.2W		
11	i P Z	06 59 06.6	0.5	3.3			
		06 59 08.2					
12	i P Z	16 44 10.1	1.3	62.6	O = 16 31 21.8, Taiwan	6.7, 63 km	9800 km
	e S ENE	16 55.1			24.1N, 122.6E		
12	i P Z	17 30 11.2	0.4	5.0			
12	i P Z	18 12 25.3	1.0	7.4			
13	e P Z	06 33 38					
13	i P Z	17 36 40.0					
13	e ZE	18 46.1					
14	i P Z	00 20 00.9	0.6	1.0			
14	i P Z	02 53 05.9	0.4	4.9			

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distanc
14	i P Z	09 34 41.3	1.0	1.2	O = 09 21 49.2, Taiwan 23.8N, 122.3E	4.8, 43 km	9900 km
14	i P Z	16 55 40.9	0.7	3.8	3.8		
	i Z	16 56 02.3					
14	e P Z	20 47 55					
15	e P Z	05 17 09					
	i Z	05 17 11.0					
15	i P Z	11 26 48.6	1.0	3.2	O = 11 14 00.9, Taiwan 24.2N, 122.7E	5.2, 65 km	9900 km
15	i P Z	23 44 40.1	1.0	4.7	O = 23 31 46.1, Taiwan 24.4N, 122.7E	5.6, 22 km	9900 km
16	i P Z	12 25 19.8	1.1	4.7	O = 12 13 02.4, Tonga Islands 21.2S, 174,3W	5.4, 66 km	9300 km
17	e P Z	04 25 07					
	e ZE	04 45.5					
17	e P Z	11 50 01	1.0	0.9	O = 11 47 49, Utah 41.8N, 111.4W	4.5, 38 km	1000 km
17	i P Z	16 02 04.4	1.0	73.6	O = 15 50 32.2, Fiji Islands 21.1S, 179.2W	6.2, 626 km	9500 km
	e S ZNE	16 11 43					
	e PSN	16 15 43					
	e PSE	16 15 48					
18	i P Z	18 06 37.2	0.9	69.2	O = 18 05 23.5, Off coast of Oregon 43.7N, 127.3W	4.6, 33 km	550 km
	e NE	07 54					
	e L Z	18 07 57					
19	e P Z	01 25 02	0.9	7.8	O = 01 23 36.8, Off coast of Oregon 44.2N, 127.3W	4.6, 33 km	650 km
19	e ZNE	18 34.5					
20	i P Z	02 01 55.3	1.0	8.0			
	e ZNE	03.5					
	e ZNE	02 21.0					
21	e P Z	09 50 36	0.4	0.4			
	i Z	09 50 41.9					
21	i P Z	13 37 16.0	0.5	7.1			
	e NE	13 38.3					
	e Z	13 38 48					
21	e Z	15 00.4					
	e N	15 00.5					
21	e E	16 35.2					
21	e P Z	19 07 55					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distance
21	e P Z	22 16 00					
22	e P Z	08 23 55	0.1	5.4	0 = 08 11 33.7, N.E. China 37.5N, 115.0E	6.0; 11 km	8900 km
22	i P Z	08 31 51.5	0.9	5.8	0 = 08 19 33.8, N.E. China 37.5N, 115.1E	6.0, 33 km	9100 km
	e S Z	08 41.9					
	e S NE	42.1					
	e N	46.7					
	e S E	47.6					
	e L N	53.7					
	e L Z	08 58.1					
23	i P Z	00 17 24.6	0.9	20.1	0 = 00 04 34.7, Taiwan 23.8N, 122.8E	6.3, 51 km	9900 km
	e S NE	28.1					
	e PSZ	29.1					
	e SSZ	33.6					
	e L ZN	00 41.2					
23	i P Z	05 19 23.3	0.8	2.2	0 = 05 11 32.5, Caribbean Sea 16.8N, 85.9	5.3, 33 km	4700 km
23	i P Z	08 13 34.4	0.8	2.1	0 = 08 01 13.3, Tonga Islands 21.5S, 174.0W	4.9, 33 km	9300 km
23	i P Z	19 25 38.1	0.6	1.0			
24	i P Z	04 17 05.0	0.9	5.7	0 = 04 04 55.5 , Fiji Island 21.5S, 176.4W	5.2, 101 km	9300 km
24	e P Z	08 40 37	0.7	0.5	0 = 08 27 51.3, New Hebrides Is. 13.7S, 166.8E	5.2, 43 km	9900 km
24	e P Z	21 05 04			Local		
27	i P Z	06 39 50.5	0.8	1.0			
27	e P Z	14 10 25					
27	e P Z	18 28 59					
27	e P Z	19 02 32	0.8	2.8	0 = 18 53 41.3, Costa Rica 3.9N, 83.4W	5.6, 40 km	5600 km
	e Z	18.6					
	e E	19 24.7					
28	i P Z	15 39 39.7	0.8	3.9	0 = 15 29 18.4, Peru-Ecuador 3.9S, 80.9W border	5.1, 19 km	6900 km
	e S N						
28	i P Z	15 57 51.2	1.1	3.5	0 = 15 46 08.9, Mariana Is. 17.4N, 145.6E	5.5, 218 km	9800 km
	epP NE	15 59 11					
	e Z	16 01 05					
28	i P Z	17 53 05.2	0.8	1.6	0 = 17 42 47.6, Peru-Ecuador 4.0S, 80.8W border	5.3, 52 km	6900 km
	e S N	18 01 32					
29	i P Z	02 29 24.9C	0.6	8.0	0 = 02 17 38.5, Volcano Is. 23.7N, 142.1E	5.9, 79 km	8600 km
	e E	02 52 48					
29	e P Z	06 24 18	1.0	1.5			

Date	Phase	Time G.C.T	T.	A.	Location and origin time	Magnitude and depth	Distance
29	i P ZNE	17 02 27.1C	0.4	22.8	Local		
	i S ZNE	17 02 28.9					
29	e P Z	20 30 3i			Local		
30	i P Z	00 17 13.5			Local		
	i S E	00 17 20.0					
30	i P Z	12 41 30.9C	1.2	24.8	0 = 12 40 01.0, Vancouver Is.	5.3, 35 km	700 km
	e L Z	43 07			49.8N, 129.7W		
	e L E	12 43 08					
31	i P Z	01 05 00.7					

Seismograph Station
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Preliminary Readings: World-Wide Standard Seismograph Station, Longmire, Washington

April, 1966

All locations and magnitude determinations are from U. S. Coast and Geodetic Survey

Latitude: 46° 45.0'N Elevation: 2800 ft.
Longitude: 122° 48.6'W Foundation: Volcanic Breccia

T = period. A = peak to peak amplitude for S.P.Z., Magnification 100K

April	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
1	e P Z	03 43 56	1.0	1.2			
1	i P Z	03 51 39.9	1.0	1.2			
2	i P Z	01 59 41.0	0.8	6.6	O = 01 52 38.3 Oaxaca, Mexico	5.6,42 km	4000 km
	e S E	02 05 26			16.5 N, 97.4 W		
	e S Z	02 05 48					
3	e P Z	04 54 40	1.0	1.8	O = 04 43 41.1 Near E. coast of Honshu, Japan 36.7 N, 140.8 E	5.7,68 km	7600 km
4	e Z	06 36 11					
4	e P Z	08 35 17	0.3	0.8			
4	e P Z	19 57 54	1.0	1.8	O = 19 50 07.6 El Salvador 13.8 N, 89.7 W	5.5,108 km	4800 km
4	e P Z	20 54 35					
4	i P Z	21 45 16.8	0.2	2.5			
4	i P Z	23 44 23.9	0.4	8.4			
	e E	00 11 .2					
	e Z	00 12 .0					
5	i P Z	01 59 35.7	0.6	0.9			
5	e P Z	09 02 37	0.8	0.6	O = 08 51 16.4 Honshu, Japan 37.0 N, 138.2 E	5.1,4 km	7600 km
5	e P Z	14:36 04			O = 14 32 23 NW Territories, 61.7N, 126.9W Canada	4.3, 37km	1800 km
5	i P Z	17 18 00.8 C					
6	e P Z	01 37 51					
6	e P Z	03 18 51					
	e E	42 34					
	e ZN	03 44.0					
	e N	04 03 30					
	e E	04 04.3					
	e E	11.2					
	e N	11 16					
	e Z	11 19					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
6	e P Z	13 59 51	1.0	0.8			
6	e P Z	19 13 01					
6	e P Z	22 33 33	0.9	2.7			
7	e P Z	05 14 51			O = 05 02 57 Tonga Is. 15.5S, 174.1W	4.9, 33 km	8600 km
7	i P Z	09 55 00.8 cR	1.2	4.0	O = 09 42 32.1 Ryukyu Is. 26.1N, 127.4E	5.7, 46 km	9400 km
7	i P Z	14 49 03.9			O = 14 36 29 S. of Tonga Is. 24.1S, 175.2W	5.2, 33 km	9500 km
8	i P Z	01 55 39.7 C			O = 01 46 44.9 near E. coast		
	e S ZNE	02 02 53			51.2N, 157.7E of Kamchatka.	5.9, 47 km	5500 km
	e P'E	05 50					
	e L N	06 48					
	e L ZN	07 06					
	e N	08 07					
	e Z	02 08 35					
8	e P Z	05 33 39			O = 52 24 44.6 Near east coast 51.2N, 157.8E of Kamchatka	5.3, 48 km	5500 km
8	i P Z	06 02 02.0R	1.0	0.9	O = 05 52 40.4, N. Atlantic 52.7N, 33.2W Ocean	5.5, 33 km	6000 km
8	i P Z	08 09 17.6C	0.5	1.9			
8	i P Z	09 23 52.8C	1.3	1.2	O = 09 19 09.6, Kodiak Is. 56.9N, 152.0W	4.7, 33 km	2400 km
8	i P Z	11 22 18.3C	1.5	1.8	O = 11 10 21.5, Samoa Is. 15.0S, 175.3W	5.2 33 km	8700 km
8	i P Z	22 15 41.2R			O = 22 10 59.3, Kodiak Is.	4.0, 33 km	2300 km
	e N	22 19 40			56.8N, 151.9W		
8	e P Z	23 54 32			O = 23 46 50.8, Near Is. 52.3N, 173.5E	4.9, 45 km	4600 km
9	i P Z	02 43 07.0R	0.9	0.5	O = 02 34 23.0, Costa Rica	5.3, 40 km	5500 km
	i Z	44 32.3			9.4N, 84.2W		
	i Z	02 50 53.4					
	i Z	02 52 19.6					
	e NE	02 58 28					
	e N	03 02.0					
	e Z	04 53					
	e E	03 05 43					
9	i P Z	18 56 17.9C	0.8	0.6	O = 18 51 45.0, S. Alaska 60.2N, 147.1W	4.7, 34 km	2200km
9	e P Z	20 13 21	0.1	2.6	O = 20 08 39, Kodiak Is.	5.5, 33 km	2400 km
	e S ZNE	17 29			56.7N, 152.0W		
	e L N	18 37					
	e L E	18 46					
	e L Z	18 58					
	e N	23 19					
	e E	23 29					
	e Z	20 23 50					
10	i P Z	10 43 10.5R	0.9	2.4	O = 10 33 35.0, N. Colombia 6.9N, 73.0W	4.3, 155 km	6400 km

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
10	i P Z	16 49 10.1C	0.8	3.0	O = 16 36 14.6, near coast	5.7 64 km	10,200 km
	i Z	16 49 27.4			31.5S, 71.2W of Chile		
	eSZNE	17 00.1					
	esS Z	01 10					
	esSNE	06 10					
	e NE	19 22					
	e ZN	17 20 32					
10	i P Z	22 28 29.0	0.3	1.8	O = 22 27 01.8, off coast of	5.6, 33 km	700 km
	i L Z	28 30.3			41.4N, 125.5W N. Calif.		
	e L NE	22 29 49					
11	e P Z	16 13 53			O = 16 05 41.6, Near Is.	5.2, 29 km	4800 km
11	i P Z	17 24 00.3C	1.0	6.1	O = 17 17 33.8, Michoacan,	5.7, 72 km	3600 km
	e S N	29 19			18.4N, 102.3W Mexico		
	e ZE	31 35					
	e L E	35 13					
	e L ZN	35 17					
	e L N	17 36 10					
11	e P Z	17 55 34					
11	e P Z	21 21 52					
11	i P Z	23 05 05.7C	1.9	8.5	O = 23 00 24.0, Kodiak Is.	5.4, 33 km	2400 km
	e S ZNE	09 06			56.6N, 152.0W		
	e L NE	10 10					
	e L ZNE	23 10 28					
12	e P Z	01 40 47					
12	e P Z	23 50 09	0.8	0.5	O = 23 37 42.1		
	e Z	23 51 04			38.1S, 73.0W Central Chile	5.7, 44 km	9800 km
13	eS ZE	00 01 04					
	e E	24 50					
	e Z	00 24 57					
13	e P Z	00 00 21					
13	e ZNE	04 22.6					
	e E	04 28 10					
13	i P Z	04 39 44.6 R	1.0	5.3	O = 04 27 54.8 Fiji Is. 23,6S, 179.9W	5.2, 550 km	9800 km
13	i P Z	13 12 40.3 C	1.6	2.0			
14	i P Z	03 31 04.4 R					
14	e P Z	10 46 08					
14	i P Z	14 16 16.9C					
	i Z	14 16 25.5					
	e ZN	19 51					
	e ZNE	14 20 21					
16	i P Z	01 32 07.5 R			O = 01 27 15.3, Kodiak Is.	5.7, 33 km	2500 km
	e SZNE	01 36 12			57.0N, 153.6W		
	e LZNE	01 37 09					
	i Z	01 39 40.5					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time		and depth	Distance
16	i P Z	10 00 49.7 R	1.0	1.8				
16	i P Z	13 58 58.4	1.2	1.4				
	I Z	13 59 02.9						
16	i P Z	15 06 19.3 R	0.7	1.9				
16	i P Z	15 35 09.5 R	0.7	3.8				
16	i P Z	18 16 30.3 R	0.2	4.8				
17	e P Z	02 59 33			Local			
17	i P Z	05 20 48.6 R						
17	i P Z	16 49 22.7 C	0.1	3.5	0 = 16 46 50.9, 54.2N, 133.5W	Queen Charlotte Is.	4.5, 33 km	1200 km
19	i P Z	14 59 31.9 R	0.5	0.8				
	i P	14 59 34.4						
19	e P Z	20 35 22			0 = 20 26 42.5 53.1N, 159.3E	Near E. coast of Kamchatka	5.0, 62 km	5500 km
20	e P Z	00 23 37			Local			
20	e P Z	02 59 48	1.0	0.8				
	e Z	03 06 35						
	e E	06 53						
	e Z	03 10 18						
20	e P Z	06 12 33	0.5	0.4	0 = 06 00 39.4 18.9N, 146.8E	Marianas Is.	5.1, 33 km	8600 km
	e S Z	22 1						
	e S E	22 21						
	e L ZE	06 35.6						
20	e P Z	10 38 00			Local			
20	i P Z	16 38 12.2 R	0.7	0.7	0 = 16 26 21.2, 18.8N, 146.9E	Marianas Is.	5.4, 55 km	8600 km
	e S N	47.9						
	e S ZE	48.2						
	e L N	16 57.2						
	e L ZE	17 00.0						
	e L ZE	17 02.1						
20	e P Z	22 12 30			Local			
20	e P Z	22 13 05			Local			
21	i P Z	04 10 22.9	0.7	4.8				
21	i P Z	15 55 46.1 C	1.0	1.3				
	e Z	15 56.5						
	e ZNE	16 05 31						
21	i P Z	19 42 31.2 C	0.3	1.3				
22	e Z ZNE	03 53.5						
22	i P Z	04 15 45.4 R	0.4	24.5				
	i Z	04 16 00.3						
22	i P Z	10 20 32.4 C			0 = 10 15 51, 56.9N, 151.8W	Kodiak Is.	4.9, 33 km	2400 km
22	i P Z	16 19 01.4 C						

Date	Phase		Time G.C.T.		I.	A.	Location and origin t		
22	e	P Z	21 58 45						
	i	Z	21 59 16.4						
22	i	P Z	23 07 35.5	eR					
	i	Z	23 07 48.8						
22	i	P Z	23 32 08.4	R	1.6	25.4			
	e	ZNE	36 08						
	e	Z	47 22						
	e	E	47 40						
	e	N	47 53						
	e	Z	59 32						
	e	E	23 59 35						
23	e	Z	00 24 03						
	e	Z	00 27 58						
23	i	P Z	04 14 19.7	R	0.5	2.8			
23	e	P Z	09 14 50						
	e	ZNE	09 24 51						
	e	Z	09 46 46						
	e	E	09 46.9						
23	e	P Z	13 54.24						
	e	Z	13 54 28.0						
24	e	P Z	08 54 36						
26	e	P Z	15 29 26						
	i	Z	15 29 30.3						
27	e	P Z	12 12 46						
	i	Z	12 12 57.8						
27	e	E	20 31.0						
	e	Z	20 41 49						
27	i	P Z	21 24 01.2	R	1.0	1.2			
	i	Z							
28	i	P Z	10 46 29.3	C	1.1	1.6	O = 10 39 07, Near coast of	5.1, 33 km	4300 km
	e	L ZNE	11 00.2				15.2N, 94.9W Oaxaca, Mexico		
	e	L ZN	00.24						
	e	L E	00 30						
	e	L E	11 00 51						
28	e	P Z	17 08 33						
	e	Z	17 30.5						
	e	E	17 33 32						
	e	Z	17 33 47						
28	i	P Z	22 31 23.8	C	0.7	34.2	O = 22 30 05, off coast of	5.0, 18 km	600 km
	e	S E	32 24				44.0N, 127.8W Oregon		
	e	L N	32 26						
	e	L N	32 40						
	e	L Z	32 44						
	e	L Z	33 03						
	e	L E	22 33 58						
29	i	P Z	00 09 08.8	C	1.0	38.5	O = 00 07 53 , Off coast of Oregon	4.9, 33 km	600 km

Date	Phase	Time G.C.T	T.	A.	Location and origin time	Magnitude and depth	Distance
29	i P Z	01 51 54.5 eR	1.3	6.0	O = 01 46 43, South of Alaska	5.2, 33 km	2700 km
	e S NE	56 16			53.8N, 157.8W		
	e S Z	56 24					
	e L E	57 51					
	e L Z	01 58.0					
30	e P Z	06 28 53					
30	i P Z	07 02 45.2 C	0.6	2.0			
30	i P Z	13 07 28.2 C	1.0	2.3	O = 13 01 19, Off coast of	5.2, 54 km	3300 km
	e S NE	12.6			18.8N, 106.7W Jalisco, Mex.		
	e ZE	14.5					
	e N	17.18					
	e L ZE	17 45					
	e Z	13 21 28					
30	e P Z	13 30 18	1.0	1.0			
	i Z	13 30 24.5					
30	e P Z	19 49 29					

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Latitude: 46° 45.0'N Elevation: 2800 ft.
Longitude: 122° 48.6'W Foundation: Volcanic Breccia

T = period. A = peak to peak amplitude for S.P.Z., Magnification 100K

Note: shock received on 24th at 20:25:24 was recorded at 200 K on S.P. instruments.

May	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
1	i P Z	16 33 47.7 R	1.0	11.3	O = 16 22 56.3 8.5S, 74.3W Peru-Brazil Border	5.7 165km	7800 km
	e S ZE	42 42					
	e SeSNE	43 32					
	e sSZ	43 42					
	e G Z	16 51 22					
2	e E	10 18.5					
	e NE	32.6					
	e ZE	10 35.5					
2	i P Z	11 04 53.6 R	0.7	3.3			
2	e P Z	15 14 28					
2	i P Z	16 58 22.5 R	1.0	4.0			
2	e P Z	18 36 12.8					
	i Z	18 36 16.0					
3	i P Z	00 55 47.5 C	0.3	4.4			
3	e P Z	19 56 12					
	i Z	19 56 13.8					
4	i P Z	00 07 71	0.7	2.1			
4	e P Z	07 00 29			Local		
4	e ZE	07 20.4					
	e Z	29.0					
	e E	29.8					
4	e P Z	09 46 51			Local		
4	i P Z	18 22 03.0 C	1.0	4.9	O = 18 13 54.3 12.5N, 87.6W Near coast of Nicaragua	5.2 60 km	5000 km
5	i P Z	01 09 53.9 C	0.3	4.1			

Date May	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distance
5	i P Z	14 34 09.7 cR	1.0	9.0	0 = 14 21 22.7 24.4N, 122.6E Taiwan	5.7 60 km	9700 km
	e.SKSZNE	44.7					
	e S N	44.9					
	e E	56.8					
	e N	57.5					
	e G E	14 57.8					
	e Z E	15 02.5					
	e N	22.4					
	e Z	15 44.7					
	e Z N	16 22.5					
5	i P Z	15 44 46.8 C	1.1	3.2			
6	i P Z	02 56 27.1 C	0.8	1.0	0 = 02 36 56.8 15.7S, 34.4E Malawi	5.5 33 km	16,100km
6	i P Z	15 02 33.1 R	1.0	14.6			
	e E	04 44					
	e Z	05 26					
	e NE	05 38					
	e ZN	06 37					
6	i P Z	16 19 39.8 C			0 = 16 08 09.7 18.1N, 145.3E Mariana Islands	5.2 328km	8800 km
6	e P Z	17 51.7					
	i Z	17 52 21.8					
7	e P Z	03 30 40			0 = 03 26 51 31.6N, 116.1 W Baja,Calif.	5.1 33 km	1800 km
	e E	35.0					
	e L Z	03 35.7					
7	i P Z	08 35 31.9 C	0.7	6.8			
7	e Z	19 53.2					
8	i P Z	04 50 39.3 R					
8	e P Z	06 02 17			Local		
9	e P Z	00 56 13	0.8	0.5	0 = 00 42 55.6 34.5N, 26.5E Crete	5.5 33 km	10,100km
	e E	01 15.0					
	e Z	01 26 54					
9	i P Z	03 48 45.9 cR	0.1	4.3	0 = 03 41 00.0 13.6N, 91.0W Near Coast of Guatemala	4.4 68 km	4,600 km
	i P Z	03 48 47.1					
9	i P Z	05 05 21.6 C	0.6	4.8			
10	i P Z	04 34 52.6 C					
11	i P Z	01 22 37.3 C	0.5	2.1			
	i Z	01 22 40.2					
11	i P Z	01 31 18.0 C	1.0	2.0	0 = 01 26 23.7 62.8N, 150.1W Central Alaska	4.7 91 km	2600 km
11	e P Z	14 26 48			0 = 14 17 34.1 48.9N, 156.2E Kurile Is.	5.5 13 km	5,800 km
	ipPZ	27 09.2					
	e SZNE	34.3					
	e Z	42 29					
	e E	14 42 46					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
May 12	i P Z	01 15 52.5 C	0.4	6.7			
	i Z	01 15 54.6					
12	i P Z	06 44 02.2 C	0.9	2.1	O = 06 31 11.9 Taiwan Region 24.2N, 122.3E	4.8, 57 km	9800 km
12	e L ZNE	12 45.5			O = 12 16 59 Kurile Is. 48.7N, 156.3E	4.9, 26 km	5900 km
13	e E	13 35.5			O = 13 11 51 Crete 34.8N, 27.0E	4.8, 31 km	10,300 km
	ePS ZN	36 47					
	ePS E	13 36 53					
14	e P Z	07 48 54					
		07 51 37					
14	e P Z	23 30 15					
14	e P Z	23 35 35					
14	e P Z	23 36 21					
15	i P Z	03 19 21.1 R	1.0	3.5			
15	e P Z	05 14 41			Local		
15	e P Z	14 00 26			Local		
15	i P Z	14 53 10.9			O = 14 46 06.5 51.5 N, 178.4 W Andreanof Is.	5.8, 31 km	4100 km
	i Z	53 21.1					
	eSZNE	14 58 53					
	eLZNE	15 01 40					
	eScSE	03 .2					
	e L Z	15 03 36					
16	i P Z	06 00 00.8 C	0.9	2.4	O = 05 44 19.6 Uganda 0.6 N, 30.2 E	36 km	14,000km
16	e P Z	14 05 38					
	i Z	14 05 46.4					
16	i P Z	22 50 22.3 R	0.4	1.3			
17	e P Z	01 10 11	1.0	1.1			
17	e P Z	10 11 00					
	i Z	10 11 12.2					
17	e Z	17 46 .6					
	e N	17 46 .8					
17	i P Z	19 46 08.2	0.7	1.0			
	e Z	19 46 42					
18	i P Z	07 37 19.1 r	1.4	26.2	O = 07 32 07.3 Gulf of Calif. 25.0 N, 109.0 W	5.3,33 km	2600 km
	e L N	41 51					
	e L E	41 54					
	e L Z	07 41 56					
18	e P Z	15 43 04	0.7	1.1			
18	e P Z	20 00 47	0.8	1.0			

Date	Phase	Time G.C.T.	T.	A.	Location and origin tim		
May							
18	i P Z	22 35 18.3 C	0.3	3.2			
19	e P Z	04 01 01	0.8	1.1			
19	i P Z	07 12 14.6 C	0.9	3.4	0 = 07 06 26.8	5.8,28 km	3100 km
	e SZNE	16 54			54.1 N, 164.1 W Unimak Is.		
	e L Z	18 55					
	e N	19 24					
	e E	07 19 36					
19	i P Z	09 10 33.6 R	0.4	2.3			
19	i P Z	13 59 04.4 R	1.0	14.5			
	e ZE	14 01 15					
	e ZE	02 08					
	e N	02 15					
	e Z N	14 03 13					
19	e P Z	15 43 02					
	e ZNE	15 44 03					
19	i P Z	20 34 12.3 C	0.4	2.3			
	i Z	20 34 31.9					
20	e P Z	07 50 01					
	i Z	07 50 12.2					
20	i P Z	09 27 00.4 eR	1.0	4.5	0 = 09 14 49.2	6.0,66 km	9000 km
	e ZE	36 14			13.9 N, 146.1 E S.of Mariana Is.		
	e S NE	37 06					
	emS Z	09 37 13					
20	e P Z	11 52 38 R			0 = 11 44 29	5.2,46 km	4900 km
					55.0 N, 165.7 E Komandorsky Is.		
20	i P Z	18 15 42.8 R	1.1	2.7	18 02 41.4	5.6, 96 km	10,200km
					19.6 N, 122.0 E Philippine Is.		
21	i P Z	00 00 24.6 eR	0.7	0.9	0 = 23 58 51.7 Vancouver Is.	5.0,37 km	700km
	e P ZNE	00 25			50.2 N, 129.7 W		
	e L ZN	01 50					
	e Z	02 05					
	e L E	02 29					
21	e P Z	02 46 07	1.0	1.3	0 = 02 44 37 Vancouver Is.	4.3, 33 km	700 km
					50.0 N, 129.5 W		
21	i P Z	08 20 26.3	0.8	3.4	0 = 08 08 30.6 S.of Fiji Is.	5.1,518 km	9800 km
					24.3 S, 179.8 E		
21	i P Z	11 03 16.9	1.0	2.0			
21	i P Z	19 34 34.9 R	0.4	11.8			
21	e P Z	21 59 30					
	i Z	21 59 36.0					
22	i P Z	07 48 38.8 R	1.0	4.6	0 = 07 42 50 Revilla Gigedo Is.	5.5,53 km	3100 km
					21.2 N, 108.7 W		
22	i P Z	11 41 48.0 R	0.2	1.7			
	i Z	11 41 51.8					
23	i P Z	08 51 19.7 R	0.9	3.9	0 = 08 39 44.4 S.of Honshu, Japan	5.5,28 km	8200 km
					30.0 N, 139.8 W		

Date May	Phase	Time G.C.T.	T.	A.	Location and origin ti		
23	e P Z	11 57 13			0 = 11 51 30 Revilla Gigedo Is.	5.6,58 km	3100 km
	e E	12 01 58			21.4 N, 108.7 W		
	e S N	02 02					
	e S Z	02 05					
	e E	05 19					
	e Z	05 34					
	e N	05 48					
	e Z	07 07					
	e E	07 12					
	e N	12 07 47					
23	i P Z	14 34 46.3	1.1	4.0	0 = 14 22 32.5 S.of Mariana Is.	5.9,39 km	9000 km
	e SZNE	44 .9			13.8 N, 146.4 E		
	e G N	55 .7					
	e Z	56 .2					
	e E	14 59 .6					
	e Z	15 00 .1					
23	i P Z	18 12 26.9 eR	0.8	0.6	0 = 18 00 16.4 Chile-Bolivia	4.8,113 km	9100 km
	epP Z	18 12 54			20.5 S, 68.8 W border		
24	i P Z	03 51 38.9 e	0.8	12.8	0 = 03 49 52.8 Northern Calif.	4.5,2 km	700 km
					39.7 N, 121.9 W		
24	i P Z	05 51 02.0			CASE V		
24	e P Z	20 25 24			0 = 20 19 41	4.9, 57 km	3100 km
	e S E	30 .2			21.3 N, 108.7 W		
	e SZN	30 .3					
	e L N	33 .3					
	e L E	33 .5					
	e L Z	33 .6					
	e L E	35 .6					
	e L N	20 35 .9					
25	e E	09 17 .0					
	e Z	17 55					
	e N	09 18 .6					
25	e E	12 32 .3					
	e N	37 .4					
	e N E	44 .6					
	e ZNE	12 49 .3					
25	i P Z	13 39 42.6 eR	1.7	4.0	0 = 13 20 56.2 Macquarie Is.	6.6,33 km	11,700 km
	e Z	50 30			52.9 S, 160.0 E		
	e E	50 44					
	e Z	51 03					
	e N	51 08					
	e N	57 16					
	e E	13 56.6					
	e Z E	14 16.1					
25	e P Z	19 31 00	0.6	0.4			
25	ipP Z	20 21 15.1 eR	0.6	4.0	0 = 20 08 40 Jujuy Province, Arget-	4.3,219 km	9700 km
					23.1 S, 66.8 W tina		
25	e P Z	20 55 02	1.0	1.8			
26	i P Z	18 42 12.7 e	1.4	6.1	0 = 18 30 07.4 Fiji Is.	5.4,230 km	9400 km
					21.2 S, 176.9 W		

Date May	Phase	Time G.C.T.	I.	A.	Location and origin time	Magnitude and depth	Distance
26	i P Z	21 00 59.0 eR	0.5	3.8			
	e Z	21 01 22					
27	i P Z	19 11 38.5 C	0.2	0.8	O = 19 02 13 N.of Svalbard	4.4,33 km	5200 km
	i Z	19 11 42.8			82.4 N, 7.0 W		
	e L Z	19 28 .0					
27	e P Z	20 02 35	1.0	2.5			
	e E	05 45					
	e Z N	20 06 32					
27	e P Z	22 06 30					
27	i P Z	22 14 39.7 eR	0.6	2.0			
28	i P Z	00 16 47.5	0.7	0.8	O = 00 03 56.8	5.7,33 km	9800 km
	i P Z	48.2	1.0	25.5	24.4 N, 122.5 E Taiwan		
	e S ZNE	00 27 .2					
29	i P Z	01 25 01.0 C	0.8	1.9			
	i Z	01 25 24.2					
29	e P Z	13 49 .4					
30	i P Z	03 19 01.7 eR	1.0	4.1	O = 03 09 34.4 N.Colombia	5.3,32 km	6100 km
					7.6 N, 77.0 W		
30	e P Z	20 41 39			Local		
31	e P Z	09 50 22	0.6	0.9			
	i Z	09 50 50.1					

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Seismograph Station
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Preliminary Readings: World-Wide Standard Seismograph Station, Longmire, Washington

June, 1966

All locations and magnitude determinations are from U.S. Coast & Geodetic Survey

Latitude: 46° 45.0'N Elevation 2800 feet
Longitude: 122° 48.6'W Foundation: Volcanic Breccia

T = period. A = peak to peak amplitude for S.P.Z., Magnification 100 K

June	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth		Distance
1	i P Z	12 00 06.1 R	1.0	5.6	O=11 47 33.1, Tonga Islands 23.4S, 174.9W	5.5,	48 km	9500 km
	e NE	10 35						
	e Z	11 31						
	e Z	20 12						
	e N	12 22.5						
2	e P Z	00 00 51	0.5	0.4				
2	e P Z	01 15 15						
	i Z	01 15 16.0						
2	i P Z	03 35 25.9 C	1.0	16.6	O=03 27 53.3, Rat Islands 51.1N, 176.0E	6.0,	41 km	4400 km
	eSZ NE	41.5						
	eLZ NE	44.5						
	e L N	03 52.0						
2	i P Z	15 32 33.9 C	1.0	1.4				
	i Z	32 35.1 R						
	e E	35 34.6						
	e N	35 35.1						
	e ZE	35 35.7						
	e Z	15 36 42						
3	i P Z	14 02 36.9 R	1.3	6.2				
	e ZNE	05.8						
	e ZN	14 06 48						
3	e P Z	15 06 18			Local			
3	e P Z	15 34 33						
	e ZN	15 38 35						
3	i P Z	18 12 10.6 C	0.6	6.2				
4	i P Z	23 57 55.0 R			O= 23 48 17.8, Kurile Is. 46.5N, 152.2E	5.9,	27 km	6200 km
	i P Z	23 58 08.5						
5	e S Z	00 05 28						
	e S NE	05 40						
	e L Z	14 13						
	e L E	00 14 34						
5	e P Z	02 22 06			Local			
5	e P Z	08 20 05			Local			
6	e P Z	01 58 32	1.3	1.6	O=01 45 45.5, New Hebrides Is. 14.9S, 167.8E	5.5,	37 km	9800 km

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Δ° Distance
June 6	i P Z	07 59 21.1C	1.1	8.6	0=07 46 16.2, Afghanistan-	6.3, 225 km	10,700 km
	ipP Z	08 00 14.5			36.3N, 71.2E USSR border		
	epP Z	03 19					
	epPN	08 03 21					
6	e P Z	09 28 05					
6	i P ZNE	10 46 22.2C			local		
	i S ZNE	10 46 33.5					
6	e P Z	17 21 51			local		
	i S NE	17 22 11.5					
6	i P Z	19 37 13.2R			local		
	i S NE	19 37 20.6					
6	e P Z	21 00 43					
7	i P Z	01 11 18.9C	1.3	1.5	0=00 59 46.6, near coast o	5.5, 48 km	8200 km
	e E	01 19 27			15.0S, 75.8W of Peru		
7	e P Z	09 18 21			local		
7	i P Z	11 57 41.7C	1.0	7.4	0= 11 44 51.5, Taiwan	5.7, 41 km	9800 km
					24.2N, 122.5E		
7	e P Z	13 04 45					
7	i P Z	14 12 21.0C	1.2	41.9			
8	i P Z	00 08 53.7C	0.7	6.4			
8	e P Z	20 04 15			0=19 56 21.3, Near Is.	5.4, 20 km	4700 km
					53.1N, 171.1E		
9	i P Z	07 06 23.8R	1.0	3.5			
9	i P Z	15 49 24.2R	2.0	2.9	0=15 39 27.8, Kurile Is.	5.5, 110 km	6600 km
					44.3N, 147.6E		
9	e Z	21 27 42					
10	i P ZNE	00 09 13.4C			local		
	i S E	00 09 20.9					
10	i P ZNE	07 44 21.7R			local		
	i S N	44 47.0					
	i S ZE	07 44 48.0					
10	e P Z	14 17 17.5	0.9	1.1	0=14 12 15, Alaska Pen.	5.2, 67 km	2500 km
					57.4N, 155.7W		
10	i P ZNE	20 27 27.6C			local		
	i S E	20 27 29.7					
11	e P Z	02 43 42			0=02 37 39, Revilla Gigedo	5.3, 45 km	3200 km
					19.2N, 108.1W Is.		
11	i P Z	03 14 10.2C	1.3	2.1	0=03 01 08.7, Taiwan	5.2, 33 km	10,000km
					23.6N, 119.9E		
11	i P Z	17 34 51.0R	0.4	15.0	0=17 34 03.3, Pt. Gamble,	3.7, 30 km	120 km
	i S E	17 34 06.2			47° 50'N, Wn.		
					122° 33'W		
11	i P Z	18 20 42.2C	0.7	12.4	0=18 13 40.6, Andreanof Is.	5.9, 60 km	4100 km
	i P Z	18 20 43.5R			51.6N, 178.4W		
13	e P Z	07 46 04	1.3	1.3	0=07 33 13.4, New Hebrides	5.9, 49 km	9900 km
	e S E	07 56 33			21.2S, 174.1E Is.		
	e E	08 02 05					
	e L E	08 09 59					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
13	i P Z	18 20 52.3C	0.7	8.5	0=18 08 38.4, Santa Cruz, Is. 12.2S, 167.1E	6.2, 259 km	9600 km
	i S E	31 07.0					
	i S N	31 08.5					
	e NE	18 32 34					
14	i P ZNE	06 02 24.7C	0.3	14.6	local		
	i S ZNE	06 02 26.3					
15	e P Z	01 12 39	—	—	0=00 59 45.8, Solomon Is. 10.4S, 160.8E	6.1, 31 km	10,000 km
15	i P Z	01 45 47.2C	2.0	13.2	0=01 32 55.5, solomon Is. 10.2S, 161.1E	6.2, 33 km	10,000 km
15	e P Z	06 26 43			0 = 06 13 52.3, Solomon Is. 10.1S, 161.0E	5.9, 39 km	10,000 km
15	e P Z	14 52 40			Local		
15	e P Z	15 33 31					
15	e P Z	16 05 20					
15	e Z	16 49 20			0=16 36 24.1, Solomon Is. 10.3S, 16.7E	5.8, 18 km	10,000 km
15	e P Z	17 02 38					
15	e P Z	18 05 23	1.0	4.0			
16	e P Z	00 03 42					
16	e Z	00 28 13					
16	e P Z	05 47 51					
	i NE	48 12.0					
	i Z	05 48 15.0					
16	e Z	15 41 30					
17	i P Z	13 08 50.2C	0.3	0.3			
	i Z	08 50.7R	0.7	5.8			
	i E	09 15.5					
	i N	13 09 16.0					
18	i P ZNE	02 28 10.0R	0.3	9.8	Local		
	i S ZE	02 28 19.8					
19	e P Z	00 11 40			0=00 07 59.0, Southeastern 59.5N, 137.7W Alaska	4.5, 27 km	1800 km
19	e P Z	19 35 34	0.9	2.8	0=19 28 43.1, Andreanof Is. 51.7N, 176.2 W	5.2, 57 km	4000 km
21	e P Z	00 56 03	1.0	2.2	0=00 43 13.5, Santa Cruz Is. 10.9S, 165.3E	4.8, 33 km	9700 km
	eSZ E	01 06 20					
21	e P Z	10 44 41			local		
	iSZ NE	10 44 51.8					
21	e P Z	13 18 09	1.2	0.9			
21	e P Z	18 18 55.5	0.7	1.0	0 =18 11 43.0, Oaxoca, Mexico 16.3N, 94.8W	5.2, 62 km	4100 km
	e S E	18 24 38					
21	e P Z	23 30 28	1.2	2.5			
23	i P Z	00 07 27.4C	0.4	3.8			

Date	Phase	Time G. C. T.	T.	A.	Location and origin time	Magnitude and depth	Distance
23	i P Z	05 11 58.0R	1.0	5.6			
23	e P Z	14 35 32					
	i Z	14 35 33.7R	0.8	3.0			
24	i P Z	00 58 52.9C	0.6	4.9			
24	i P Z	08 30 27.0	1.4	3.8	0=08 17 49.1, S. of Fiji Is. 26.7S, 177.3W	5.3, 146 km	9900 km
24	e P Z	17 46.3					
	e Z	46 43.0					
	e NE	17 46 43.6					
24	i P Z	22 57 12.0C	0.4	1.7			
25	i P Z	01 57 31.6	0.6	1.9	0=01 46 10.4, S. of Honshu, 29.6N, 142.1E Japan	5.5, 49 km	8100 km
	e E	02 16 20					
	e Z	02 19 36					
25	i P Z	17 32 18.7C	0.9	20.5	0=17 24 38.5, near coast of 13.7N, 91.2W Guatemala	5.3, 119 km	4500 km
25	i P Z	23 24 15.4	1.0	1.3	0=23 17 06.1, Oaxaca, Mexico 16.0N, 96.5W	4.8, 40 km	4100 km
	e Z	23 36 38					
26	e P Z	07 01 39	0.9	2.4			
28	e P Z	04 11 34	1.6	0.5	0=04 08 54.7, Central Calif. 35.8N, 120.6W	5.0, 5 km	1100 km
	e Z	11 35.5	1.7	2.1			
	i Z	11 38.4	0.9	9.7			
	e N	28 52					
	e Z	28 56					
	e E	29 02					
	e E	30 45					
	e N	31 20					
	e Z	04 31 46					
28	i P Z	22 59 25.0	0.4	2.2			
29	i P Z	07 10 22.7C	0.7	6.6	0=06 57 58.1, Eastern Kazakh 49.9N, 78.0E USSR	5.7, 0 km	9100 km
29	i P Z	13 33 45.2C			Local		
29	e P Z	19 56 04	0.6	0.3	0=19 53 24.1, Central Calif. 35.8N, 120.5W	4.9, 5 km	1100 km
	i P Z	56 05.2	1.3	1.9			
	i P Z	56 07.3	0.8	16.4			
	e Z E	58 19					
	e N	19 59 16					
29	i P Z	23 04 14.0	1.1	3.0	0=22 51 22.7, Taiwan Region 24.2N, 122.5E	5.2, 33 km	9800 km
30	e Z	01 20 19					
30	i P Z	03 22 40.0C	0.6	3.1			
30	i P Z	15 58 16.6C			0=15 45 26.0, Taiwan Region 24.4N, 122.2E	5.4, 47 km	9900 km
	i Z	15 58 17.7R	1.2	10.0			
30	i P Z	22 17 32.8C					
	i Z	17 33.1R	1.2	55.2			
	e Z	19 36					
	e E	19 41					
	e E	22 20 24					

Seismograph Station
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T = period. A = peak to peak amplitude for S.P.Z., Magnification 100 K

July	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
1	e Z	16 55 24					
1	i P Z	20 25 32.1	0.7	2.9	0 = 20 17 49.3 El Salvador 13.7 N, 88.4 W	5.3,201 km	4800 km
1	i P Z i SNE	22 24 12.0 C 22 24 14.1			Local		
2	i P Z	00 51 35.3	0.7	2.3			
2	i P Z	02 00 00.1					
2	i P Z	03 56 55.1	1.0	3.0	Local		
2	e P Z e SZNE	07 26 48.5 27 01.8			Local		
2	e Z	08 46 47			Local		
2	i P Z	12 47 01.1					
3	i P Z	04 01 33.3	1.0	3.7	0 = 03 55 15.7 Fox Islands 52.5 N, 170.2 W	5.3, 69 km	3500 km
3	e P Z	04 21 50			0 = 04 09 30 Tonga Is. 21.1 S, 174.2 W	5.0, 33 km	9300 km
4	e P Z	02 48 06	0.6	1.2			
4	e P Z e Z	07 54 14 54 16					
4	e Z	12 26 35.6			0 = 12 15 28.1 Azores Is. 37.5 N, 24.8 W	5.5, 33 km	7500 km
4	e P Z i Z i Z i Z e S E e S Z	18 40 52 c 40 53.1 R 40 55.2 41 01.2 46 38 18 46 49	1.8 0.6 1.2	4.1 4.7 31.7	0 = 18 33 35.7 Rat Island 51.7 N, 179.9 W	5.5, 33 km	4200 km
5	e P Z	01 30 44			0 = 01 17 42 East New Guinea 5.5 S, 147.5 E	162 km	10,500 km
5	e P Z i Z e Z e E	02 28 39 28 55.7 34 48 02 34 51	0.6	3.7			

July	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distance
6	e P E	05 53 53			Local		
	i Z	54 06.8					
	e E	54 07					
	i N	54 08.3					
	i E	54 22.7					
	i Z	54 24.8					
	i E	54 25.0					
	i N	54 25.1					
	i Z	05 54 28.6					
6	e P Z	07 53 37			Local		
	i Z	07 53 41.5					
6	e P Z	13 20 19	1.6	0.8			
6	e P Z	19 32 52	0.7	1.8	0 = 19 23 38 Northern Easter Is.	4.8, 33 km	5800 km
	e E	44 .3			4.4 S, 104.9 W Cordillera		
	e Z	19 46 .7					
6	i P Z	23 34 12.2	1.5	1.7			
7	i P Z	00 19 33.4 C	0.5	1.8			
7	e P Z	01 05 22					
	i N	05 30.0					
	i Z	05 30.5					
	i E	01 05 31.5					
7	i PZNE	02 24 32.3 C	0.4	5.5	Local		
	i S ZE	24 39.0					
	i S N	02 24 39.3					
7	i PZNE	03 12 31.5 C			Local		
	i SZN	03 12 34.5					
7	e P Z	05 21 22			Local		
7	e P Z	06 40 14			Local		
9	e P Z	11 38 15					
9	e P Z	13 54 00					
10	i P Z	10 13 44.7	0.8	1.2	0 = 10 00 39.1 Kermadec Is.	5.8, 40 km	10,400 km
	e S E	24 19			30.5 S, 177.8 W		
	e L Z	10 41 51					
10	i P Z	16 25 26.3 C	1.4	3.1	0 = 16 12 41.5 S.W.Ryukyu Is.	5.9, 28 km	9,600 km
	e S Z	35 50			24.2 N, 125.2 E		
	e S E	16 35 53					
10	e P Z	20 49 05.5	0.6	1.0			
11	e P Z	22 58 06			0 = 22 46 05.7 Tonga Is.	5.6, 120 km	9,100 km
	e Z	19 57			19.2 S, 173.6 W		
	e E	22 23 53					
11	i PZNE	23 11 14.3			Local		
	i SZNE	23 11 20.1					
12	i P Z	19 05 54.3	0.6	3.2	0 = 18 53 08.5 Western Caucasus	5.9, 26 km	9,600 km
	e L E	19 33 06			44.6 N, 37.4 E		
13	i P Z	06 00 30.2	0.7	2.1	0 = 05 47 44.3 Kermadec Is.	5.1, 119 km	10,100 km
					28.0 S, 177.6 W		

July	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
13	e P Z	07 36 15	0.9	1.7			
13	i P Z e S E	08 29 06.0 08 35 39	1.2	8.8	0 = 08 20 59.4 El Salvador 12.6 N, 87.7 W	5.3, 61 km	4,900 km
13	i P Z i S E	08 37 57.2 09 38 13.8			Local		
14	i PZNE i S N	00 53 27.6 C 00 53 33.7	0.4	3.2	Local		
14	e P Z i Z	01 39 10 01 39 25.4					
14	i P Z	04 58 21.2	0.7	1.2			
14	i P Z	05 20 49.9	1.3	3.9			
14	i P Z	06 29 53.3	1.0	1.0	0 = 06 18 47.6 Near S.coast of 35.6 N, Honshu, Japan 140.0 E	5.0, 71 km	7,700 km
14	e P Z i P Z e S E e S N e S Z	12 22 45 22 49.9 26 32 26 35 12 26 36	-- 1.5 5.0	-- 5.0	0 = 12 18 17.0 Gulf of Alaska 56.2 N, 149.8 W	5.2, 33 km	2,200 km
14	i P Z e PPZ	18 14 58.5 18 16 40	0.7	1.1	0 = 18 07 04.1 Near Is. 53.1 N, 171.1 E	5.2, 29 km	4,700 km
14	e P Z	18 19 51					
15	i P Z i Z	04 16 55.7 04 16 57.4	0.6 0.9	0.8 3.0			
15	i P Z	08 09 43.4 C	0.6	2.8			
15	e P Z	14 04 54	0.6	1.1			
15	i P Z	16 59 08.7	0.6	1.1			
15	e P Z	17 24 57	0.7	0.8			
16	i P Z i N i Z	02 26 39.2 C 26 46.5 02 26 48.2			Local		
16	e P Z	07 32 29	0.7	1.2	0 = 07 19 55.8 Santa Cruz Is. 10.9 S, 165.9 E	5.2,68 km	9,600 km
16	i P Z	18 34 28.4	0.7	1.6			
17	i P Z	01 09 04.2	0.8	1.6	0 = 01 03 03.6 Bering Sea 56.5 N, 166.9 W	4.9, 35 km	3,300 km
17	i P Z i SNE	07 22 03.2 R 07 23 12.7	0.3	3.0	Local		
17	e P Z iSP Z	08 51 23 08 51 44.0	-- 1.3	-- 2.5	0 = 08 46 25.8 Southern Alaska 61.9 N, 152.0 W	4.8,103 km	2,600 km
17	e P Z	11 35 35			Local		
17	i P Z	15 02 38.3	0.7	1.1			
17	i P Z	15 46 01.7	0.8	1.0			

July	Phase	Time G.C.T.	T.	A.	Location and origin ti		
19	i P Z	01 49 06.7 C	1.6	2.7	0 = 01 40 53.9 Komandorsky Is.	5.4, 18 km	4,900 km
	e S E	55 44			56.2 N,164.9 E region		
	e S N	55 45					
	e S Z	01 55 56					
	e L N	02 02 .3					
	e LZE	02 02 .5					
19	i P Z	03 48 26.2 R			Local		
	i SNE	48 28.1					
	i S Z	03 48 28.3					
19	i P Z	19 27 10.5	0.6	1.9	0 = 19 20 33.4 Andreanof Is.	5.5,47 km	3,700 km
	e S E	32 31			51.7 N, 173.3 W		
	e S N	32 33					
	e L N	34 51					
	e L E	19 34 53					
20	e P Z	01 48 30					
20	e P Z	11 05 10	0.9	0.9	0 = 10 55 57 Northern Easter Is.	4.6,33 km	5,900 km
	e L E	18 .7			4.1 S, Cordillera		
	e L Z	21 .8			104.5 W		
	e L N	11 22 .4					
20	i P Z	13 33 02.3 C	1.2	0.9	0 = 13 22 54 Northern Easter Is.	5.0, 33 km	6,800 km
	e Z N	52 .3			13.3 S,111.4 W Cordillera		
	e E	13 54 .4					
20	i P Z	14 40 14.0	1.0	3.8			
20	i P Z	16 27 36.2	0.3	1.0			
20	e P Z	20 15 10					
21	i P Z	00 22 33.6	0.6	8.2	Local		
	i S N	22 37.4					
	i SNE	00 22 38.2					
21	i P Z	04 10 22.8 C	0.8	5.9	0 = 03 57 57.8 Eastern Kazakh SSR	5.6, 0 km	9,000 km
					49.7 N, 77.9 E		
21	i P Z	05 41 31.7	1.0	4.8	0 = 05 32 18.2 Northern Easter Is.	5.1, 33 km	5,900 km
	e L E	05 55 .0			3.9 S, 104.3 W Cordillera		
21	i P Z	18 41 35.4 C	1.0	20.9	0 = 18 30 14.9 Fiji Islands	5.6,591 km	9,200 km
					17.8 S, 178.6 W		
22	i P Z	07 54 43.4	0.7	1.3			
22	i P Z	08 38 27.0	1.3	1.8	0 = 08 25 54.7 New Hebrides Is.	5.5,187 km	9,900 km
	ipP Z	08 39 13.3			16.0 S, 168.0 E		
22	i P Z	10 24 00.0 R	0.7	3.8	0 = 10 17 22.5 Andreanof Is.	5.6, 56 km	3,800 km
	e SNE	29 21			51.7 N, 173.5 W		
	e Z	30 .2					
	e L N	10 31 .8					
22	e P Z	14 31 43			Local		
	i SZNE	14 32 09.9					
22	i P Z	22 18 16.8 C			Local		
	i S NE	22 18 19.6					
23	i P Z	01 57 37.3 C	0.8	21.2			
	i S E	58 00.0					
	i S Z	58 00.5					
	i S N	01 58 00.7					

July	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distance
23	i P Z	03 44 35.0	0.7	1.3	0 = 03 37 55.8 Andreanof Is. 51.7 N, 173.6 W	4.7,41 km	3,800 km
23	e P Z	08 32 58	1.0	1.4	0 = 08 26 10.1 Andreanof Is. 51.9 N, 173.5 W	4.7, 33 km	3,800 km
23	i P Z e S NE e L N	14 38 29.0 C 43 51 14 46 .2	1.2	5.0	0 = 14 31 51.2 Andreanof Is. 51.7 N, 173.5 W	5.3, 55 km	3,800 km
23	e Z	14 57 55					
23	e Z	15 32 27					
23	i P Z i Z	20 18 38.0 20 18 38.9	0.4 0.8	0.3 1.7	0 = 20 12 00.1 Andreanof Is. 51.8 N, 173.5 W	4.9, 36 km	3,800 km
23	i P Z i SZNE	21 51 39.9 R 52 03.3			Local		
24	i P Z i S E	00 01 39.2 C 47.3	0.4	1.9	Local		
24	i P Z	09 04 07.1	1.2	0.9	0 = 08 52 13 Samoa Is. region 16.3 S, 172.8 W	4.8, 49 km	3,500 km
24	e P Z	09 37 42			Local		
24	i P Z i P Z	17 30 28.7 17 30 29.7	0.6 1.5	0.5 2.1	0 = 17 18 17.6 Tonga Is. 20.4 S, 175.8 W	5.2, 112 km	9,200 km
25	i P Z i S NE	05 13 26.0 05 13 49.7			Local		
25	i P Z i S ZN	19 09 40.3 19 10 03.7			Local		
26	e P Z	03 56 42	0.7	0.9			
26	i P Z	20 49 47.7 C	0.5	2.8			
26	i P Z	22 52 30.7 R	0.8	4.1	0 = 22 39 47.8 Kermadec Is. 27.5 S, 177.9 W	5.2,143 km	10,000 km
27	e P Z e S E eSS E	05 01 29 11 52 05 17 37	1.0	2.3	0 = 04 48 59.4 Near coast of N. 24.2 S, 70.3 W Chile	6.0, 35 km	9,500 km
27	i P Z i S NE	17 08 55.5 17 08 58.0			Local		
28	i P Z i ZN i NE	01 08 49.7 C 08 52.7 01 08 53.5	0.5	10.2	Local		
28	i P Z	12 20 49.4	1.3	2.2	0 = 12 07 52.5 Kermodec Is. 29.0 S, 177.5 W	5.4,59 km	10,000 km
28	i P Z i S E	22 02 41.0 22 02 43.4			Local		
30	i P Z i S E i E	01 18 00.3 18 08.0 01 18 12.0			Local		
30	i P Z	18 02 47.8 RNW	0.3	20.2	0 = 18 02 37.4 Carbonado, Wash. 46.9 N, 122.1 W	3.5, 20 km	30 km
31	e P Z	12 02 17	1.6	1.0			
31	i P ZNE i S ZNE	21 19 30.1 21 19 33.7			Local		

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UNIVERSITY OF WASHINGTON SEISMOGRAPH STATION
GEOLOGY DEPARTMENT - SEATTLE 5, WASH., U.S.A.

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International Seismological
Research Centre
6 So. Oswald Road
EDINBURGH 9, SCOTLAND

Seismograph Station
University of Washington
Department of Geology
Seattle, Washington 98105

Preliminary Readings: World-Wide Standard Seismograph Station, Longmire, Washington

August, 1966

All locations and magnitude determinations are from U. S. Coast and Geodetic Survey

Latitude: 46° 45.0'N Elevation: 2800 feet
Longitude: 122° 48.6'W Foundation: Volcanic Breccia

T = period. A = peak to peak amplitude for S.P.Z., Magnification 100 K

August	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
1	i P Z	03 35 49.5C	0.7	2.7	O = 03 23 03.1 Solomon Is. 10.2S, 161.1E	5.7, 70km	9,900 km
1	e P Z	06 33 20	0.6	0.5	O = 06 25 57.6 Rat Island	5.2, 43km	4,400 km
	i P Z	06 33 21.3	0.8	3.7	51.5N, 177.6E		
1	i P Z	23 03 18.5			Local		
	i S E	23 03 20.4					
2	i P ZNE	03 24 38.3(SE)			Local		
	i ZE	45.8					
2	i P Z	05 59 19.4	0.9	1.3			
2	e P Z	08 18 56			Local		
3	i P Z	19 00 54.2	0.6	2.7	O = 18 55 40 Alaska Pen. 54.8N, 162.8W	4.5,140km	2900 km
5	i P Z	00 02 17.7C	0.5	9.6			
5	i P ZN	03 03 27.7			Local		
	i S ZNE	03 03 30.3					
5	i P Z	03 23 18.3	0.9	1.3			
5	i P Z	04 25 22.4	0.8	5.9			
5	i P Z	04 45 50.4 05 01.6 05 01.9	1.4	1.7	O= 04 33 07.4, Solomon Is. 10.9S, 162.3E	5.7, 93 km	9900 km
5	i P Z	08 29 27.4			Local		
	iSS ZN	08 29 41.0					
5	e P Z	17 33 57.5					
5	i P Z	20 34 58.2	0.7	1.8			
5	i P Z	21 59 07.5			Local		
	i S E	21 59 20.8					
5	i P Z	22 12 12.8			Local		
	i N E	22 12 30.3					
5	i P Z	22 58 11.2C			Local		
6	i P Z	02 58 40.4	1.4	1.2			
6	i P Z	14 49 28.8R	0.8	2.8	O = 14 38 41.4, N. Peru 7.8S, 75.1W	5.4, 149	7800km
6	e P Z	20 41 02					
6	i P Z	21 12 08.1	0.6	0.6	O = 21 04 32.5, Rat Is. 51.9N, 175.3E	5.3, 30km	4500km

August	Phase	Time G. C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
6	i P Z	22 46 57.5			Local		
7	i P Z	02 19 33.0R	0.8	55.1	O = 02 13 05.1, Aleutian Is.	6.5, 39km	3600 km
	e S N	24 43			50.6N, 171.3W region		
	e S E	24 49					
	e S E	26.8					
	e S N	26.9					
	e L Z	02 27 47					
7	e P Z	14 16110	1.4	3.0	O = 14 11 51.2, Gulf of	5.5, 4 km	2000 km
	e S NE	19 40			59.6N, 144.4W Alaska		
	e L Z	14 21 08					
7	e P Z	17 40 13R	1.0	1.5	O = 17 36 26.7, Gulf of	6.3, 33km	1800 km
	i P Z	40 14.4	1.0	79.0	31.8N, 114.5W Calif.		
	e S N	42 49					
	e S Z	42 57					
	e L E	17 43 22					
7	e P Z	20 29 09	0.9	1.2	O = 20 18 41.5, Hokkaido,	5.1, 66km	7000km
					42.3N, 143.0E Japan		
8	i P Z	08 08 49.0	1.3	2.7	O = 08 02 45.8, Revilla Gigedo	5.4, 33km	3300 km
	e S E	13 52			19.3N, 108.1W Is. region		
	e S ZN	13 54					
	e L Z	16 41					
	e L N	08 16 51					
8	i P Z	10 10 11.3R	1.0	4.4			
8	e P Z	17 31 50	1.1	1.9			
8	i P Z	19 07 11.8			Local		
	i S ZNE	19 07 20.5					
8	i P Z	22 17 44.0	0.5	2.7			
8	i P Z	23 24 45.8			Local		
	i S ZE	23 24 53.6					
9	e Z	02 26 28			Local (MR)		
9	i P Z	20 54 16.3			Local		
	iSZ NE	20 54 21.0					
10	i P Z	05 13 20.9C	0.8	5.3	O = 05 01 09.4, Tonga Is.	5.8, 96km	9200 km
	ipP Z	13 45.5			20.1S, 175.3W		
	ipPP Z	16 50.0					
	e S NE	05 23 29					
10	e P Z	11 33 13					
	i P Z	11 33 24.5	0.7	3.7			
10	e P Z	11 46 41					
	i P Z	11 46 50.5	0.5	7.8			
11	i P Z	05 24 53.7C	0.7	2.1	O = 05 12 42.2, Tonga Is.	5.5, 33km	9100 km
	e S N	34 49			19.3S, 173.9W		
	e S Z	35 10					
	e S E	05 35 12					
11	i P Z	10 52 14.4C	1.0	4.2	O = 10 45 59.6, Fox Is.	5.3, 61km	3400 km
	e S N	57 16			52.8N, 169.7W		
	e S E	57 17					
	e S Z	10 57 18					

August	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
11	e P Z	23 38 03	--	--	O = 23 25 37.9, Tonga Is.	5.5, 33km	9500 km
	e S E	48 37			23.4S, 173.9W		
	e S Z	23 48 44					
	e L N	00 00.3					
	e L Z	00 04 50					
12	i P Z	04 27 09.5C	--	--			
	i Z	04 27 09.8R	0.7	2.8			
12	i P Z	20 22 34.9C	0.8	4.5	O = 20 16 59.1, South of	5.6, 31km	3000km
	e S E	27 08			52.9N, 161.6W Alaska		
	e S N	23 23					
	e S Z	20 27 30					
12	i P Z	21 13 05.6			Local		
	i S NE	21 13 10.3					
12	i P Z	23 27 38.7	Local				
	i S NE	23 27 46.4					
13	i P Z	02 41 18.8	0.6	1.1			
14	i P Z	14 19 44.8R	0.4	8.0			
15	e N	03 09 54					
15	e P Z	11 03 49	1.3	1.2			
15	i P Z	13 40 54.1R	1.3	10.0	O = 13 36 23.7, Southern	5.3, 9 km	2200 km
	e S Z	44 16			60.4N, 146.0W Alaska		
	e L N	44 31					
	e L ZE	4 44 39					
	e L N	46 40					
	e L Z	46 44					
	e L E	13 47 06					
16	i P Z	02 29 27.4C	0.9	4.5	O = 02 16 19.7, Hindu Kush	5.7, 199 km	10,700km
	e PPZ	33 17			36.4N, 70.8E		
	ePPNE	02 33 26					
16	i P Z	04 47 31.9	1.0	1.3			
	e E	51.1					
	e N	04 52.3					
16	e P Z	05 54 53	0.8	1.0			
16	i P Z	18 05 13.7	1.1	1.8	O = 18 02 36.1 S. Nevada	6.1, 33 km	1150 km
	i P Z	05 15.1 R	1.6	16.7	37.4N, 114.2W		
	e L ZN	18 07 47					
16	e P Z	19 58 36	1.0	1.0	O = 19 45 38.7, Loyalty Is.	5.3, 36 km	10,100km
	e S N	09 26			21.4S, 171.3		
	e S E	09 34					
	e PSS	10 42					
	e L N	22 18					
	e L E	19 22 22					
17	i P Z	01 50 01.0C			Local		
	i N	50 08.2					
	i ZE	01 50 09.8					
17	i P Z	14 40 32.0	0.9	1.0			
	e Z	14 40 39	0.9	4.2			

August	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
17	i P Z	21 17 52.5C			Local		
	i N	17 57.0					
	i ZE	21 17 57.4					
17	e Z	23 01.3					
17	e P Z	23 10 39	1.0	1.8	O = 23 07 58.9, Southern	5.2, 33 km	1150 km
	e N	13 45			37.3N, 114.1W Nevada		
	e E	13.6					
	e ZN	23 14 08					
18	e P Z	09 18 17	0.7	0.9	O = 09 15 34.9, S. Nevada	5.1, 9 km	1150 km
	e S E	20.5			37.3N, 114.1W		
	e S ZN	20.6					
	i L N	21 33.5					
	i L E	21 34.5					
	e L E	21 45					
	e L N	09 21 52					
18	i P Z	10 40 52.7C	0.9	61.7	O = 10 33 16.5, Guatemala	5.9, 76 km	4400 km
	e E	42 29			14.6N, 91.7W		
	e ZN	42 32					
	e Z	46 25					
	e S NE	46 38					
	i S Z	46 40.0					
	e N	46 59					
	e E	47 10					
	e L E	50 12					
	e L N	50 13					
	e L Z	10 50 16					
18	i P Z	14 51 13.8	0.4	1.3	O = 14 33 59.8, Molucca Sea	6.3, 56 km	11,800 km
	i NE	51 21.0			0.2S, 125.1E		
	i Z	51 23.0	0.7	4.2			
	e Z	14 56 25					
	e PSZ	15 01 40					
	e PSE	01 46					
	e Z	05 37					
	e L N	15 16 30					
18	e P Z	17 37 47	1.0	0.9			
18	e P Z	20 02 16	0.8	1.1			
19	i P Z	03 14 21.0	1.2	2.0	O = 03 10 04.2, Gulf of Alaska	4.6. 33 km	2100 km
	e S E	17 57			59.5N, 144.6W		
	e S N	17 58					
	e S Z	03 18 00					
19	i P Z	04 59 43.7			Local		
	i S Z	59 53.8					
	i S E	04 59 54.0					
19	i P Z	10 27 00.0			Local		

August	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
19	e P Z	12 35 22	1.0	0.8	O = 12 22 09.6, Turkey	6.1, 26 km	10,400km
	e P Z	35 25	1.2	2.3	39.2N, 41.7E		
	eSKKSN	46 05					
	eSKKSE	46 12					
	e E	47 54					
	e N	47 56					
	e Z	12 48 00					
19	i P Z	12 57 24.7	0.8	1.3	O = 12 46 23.7, Near E. coast of Honshu, Japan 36.4N, 141.7E	5.5, 28 km	7800 km
19	i P Z	17 55 20.6	0.4	2.7			
19	i P Z	19 50 47.9C			Local		
	i S E	19 50 55.4					
20	i P Z	02 01 06.7			Local		
20	i P Z	07 53 46.4	1.0	9.0			
20	i P Z	09 42 54.2C	0.9	22.7	O = 09 32 31.7, Hokkaido, 43.1N, 140.6E Japan	5.8, 161km	7200 km
20	e P Z	12 12 24	0.8	1.3	O = 11 59 12.1, Turkey 39.3N, 40.9E	5.4, 37 km	10,300km
	eSKKSN	23 05					
	eSKPP'N	12 40 38					
20	i P Z	23 07 35.0C	0.8	1.5	O = 22 55 03.0, South of 23,4S, 176.0W Fiji Is.	5.5, 57 km	9700 km
	e S N	23 18 06					
21	i P Z	00 14 52.5C			Local		
	i S E	00 15 00.0					
21	i P Z	05 13 59.0	1.2	2.0	O= 05 00 26.8, Mindanao 8.5N, 126.7E	6.0, 67 km	10,800km
	eSKSE	24 33					
	eSKSN	24 36					
	ePSZE	05 26 45					
22	e P Z	08 30 09			O = 08 27 30.2, S. Nevada 37.3N, 114.2W	4.8, 33 km	1150 km
	e S E	33 08					
	e L Z	33 09					
	e Z	34 32					
	e N	08 34 36					
22	i P Z	14 29 59.2	0.8	6.7	O = 14 21 13.7, Sea of Okhotsk 50.3N, 147.6E	5.2, 628km	6200 km
22	e Z	16 51 48					
22	e Z	17 47 50					
	e Z	55 14					
	e Z	55 30					
	e E	05 51					
	e N	17 05 58					
23	e P Z	00 47 31			Local (MR)		
	i ZN	47 33.0					
	i E	00 47 33.5					
23	e Z	05 07 57					

August	Phase	Time G.C.T.	T.	A.	Location and origin Etc		
23	i P Z	06 50 01.3R	0.6	4.7	O = 06 48 47, Vancouver Is.	4.4, 33 km	520 km
23	i P Z	17 41 41.8			Local		
	i S Z	41 46.9					
	i S E	17 41 47.2					
23	**i P Z**	**18 35 07.5C**	**0.9**	**4.7**	**O = 18 22 16.7, S.W. Ryukyu Is. 23.8N, 123.2E**	**5.6, 37 km**	**9800 km**
24	i P Z	00 07 04.3			Local		
	i S Z	07 11.6					
	i S E	00 07 11.8					
24	i P Z	07 29 25.6R	0.6	3.0	O = 07 17 17.8, N. Chile 19.9S, 69.2W	5.5, 100 km	9100 km
24	i P Z	22 31 38.4			Local		
	i S NE	22 31 54.2					
25	i P Z	23 31 09.4r	0.8	3.8	O = 23 18 50.8, N. Chile 22.4S, 68.6W	5.3, 112 km	9400 km
	i Z	23 31 09.6C					
26	e P Z	09 19.9			O = 09 06 50.4, Loyalty Is. 22.1S 170.0E	5.6, 33 km	10,300km
	eSKSN	30.3					
	e L E	44.6					
	e L Z	10 48.4					
26	e Z	10 25 36			O = 10 19 34.8, Alaska 67.1N, 161.9W	5.2, 14 km	3200 km
26	i P Z	16 26 52.8			Local		
	i S E	27 00.4					
	i S N	16 27 00.6					
27	i P Z	01 39 03.7			Local		
	i S ZE	01 39 11.2					
27	e P Z	22 24 13			Local		
	i S N	24 16.2					
	i S E	22 24 17.2					
28	e P Z	04 56 44			Local (MR)		
28	e Z	10 02.5					
28	i P Z	10 15 01.5R	1.3	2.8	O = 10 03 03.0, Solomon Is. 4.6S, 155.9E	5.6, 509km	9800 km
28	i P Z	18 14 03.0			Local		
	i S Z	18 14 05.3					
28	i P Z	18 17 24.6			Local		
	i S ZNE	18 17 26.3					
30	i P Z	20 25 34.3R	1.0	30.5	O = 20 20 54.0, S. Alaska 61.3N, 147.5W	5.9, 36 km	2400 km
	i Z	28 00.0					
	e Z N	28 14					
	e S Z	29 34					
	e S N	20 29 35					

Seismograph Station
University of Washington
Department of Geology
Seattle, Washington 98105

Preliminary Readings: World-Wide Standard Seismograph Station, Longmire, Washington

September, 1966

All locations and magnitude determinations are from U. S. Coast and Geodetic Survey

Latitude: 46° 45.0'N Elevation: 2800 feet
Longitude: 122° 48.6'W Foundation: Volcanic Breccia

T = period. A = peak to peak amplitude for S.P.Z., Magnification 100 K

Sept.	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
1	e P Z	04 56.8			Local		
	i E	57 05.0					
	i N	04 57 05.5					
1	e P Z	13 22 06			Local(NR)		
	i E	13 22 08.6					
1	i P Z	14 12 58.8	0.7	8.6	0 = 14 11 25, Vancouver Is.	4.6,33 km	800 km
	e L,N	14 14 18			50.6N, 129.5W region		
1	i P Z	14 27 30.7	0.5	1.7	0 = 14 16 14.1,S. of Honshu,	5.5,42 km	8000 km
					31.8N, 142.4E Japan		
1	i P Z	15 37 20.7	1.3	1.8	0 = 15 24 59.2, Tonga Is.	5.2,33 km	9300 km
					20.6S, 175.4W		
1	i P Z	23 23 56.5x	0.8	0.6			
	i Z	23 57.8C	1.3	12.6			
	e ZNE	23 28.2					
2	i P Z	08 08 20.0C	1.4	2.8	0 = 07 59 05.7, Northern Easter	5.1,33 km	6000 km
	e S ZE	15 56			4.5S, 105.9W Is.Cordillera		
	e S N	15 57					
	e L Z	08 24 54					
2	i P Z	21 25 07.2	1.0	9.7	0 = 21 20 17,Gulf of Calif.	5.2,34 km	2400 km
	e L E	31.6			26.8N, 110.8W		
	e L Z	21 34 26					
2	i P Z	22 51 11.8	0.7	1.4	0 = 22 46 39.5,Southern Alaska	4.9,31 km	2200 km
					60.2N, 146.9W		
3	i P Z	00 55 59.7			Local		
	i S NE	00 56 06.7					
3	e P Z	06 34 34			Local		
	i E	34 52.5					
	i Z	06 34 56.0					
3	i P Z	10 04 55.5			Local		
	i ZN	05 00.0					
	i E	10 05 02.7					

Sept.	Phase	Time G.C.T.	T.	A.	Location and origin		
3	i P Z	12 27 47.1	1.2	2.1	0 = 12 08 40, South Sandwich Is. Region 57.0S, 25.6W	5.3,33 km	14,800km
3	e P Z	16 31 48	1.1	2.0	0 = 16 24 20.7, Off coast of Mexico 10.2N, 104.2W	5.3,47 km	4500 km
	e S NE	16 37 53					
3	i P ZNE	17 13 47.3			Local		
	i S ZN	13 50.1					
	i S E	17 13 50.3					
4	i P Z	01 29 42.2	0.7	2.3	0 = 01 28 23, Off coast of Oregon 44.5N, 128.6W	3.9,33 km	600 km
4	e P Z	22 24 49	1.0	0.7	0 = 22 14 49.0, Colombia 4.6N, 74.0W	5.2, 5 km	6500 km
	i Z	22 24 51.9	1.2	3.4			
6	i P Z	23 46 25.3			Local		
	i S NE	23 46 33.0					
7	i P Z	14 46 26.5	0.7	2.4	0 = 14 45 03, Vancouver Is. region 49.3N, 129.3W	4.3,33 km	600 km
	e L N	47 56					
	e L E	48 37					
	e L Z	14 48 48					
9	e P Z	01 19 21			Local (MR)		
9	e P Z	01 35 .9			Local		
	i S E	01 36 15.1					
9	i P Z	18 35 17.9	0.8	5.2			
	e N	36 35					
	e Z	18 37 33					
9	i P Z	22 30 29.1			Local		
	i S NE	22 30 36.9					
10	i P Z	02 37 24.6C	0.7	3.8			
11	i P Z	01 46 49.8	0.8	0.9	0 = 01 42 11, Gulf of Calif. 27.8N, 111.1W	4.8,33 km	2300 km
	e L Z	01 55.6					
11	i P Z	17 47 38.8C	0.9	30.4	0 = 17 38 04.2, Northern Colombia 6.8N, 72.9W	5.9,167 km	6400 km
12	e P Z	11 42 46	1.0	1.7	0 = 11 29 40.3, Loyalty Is. region 23.1S, 170.6E	6.1, 49 km	10,400km
	eSKSE	53 18					
	eSKSN	53 19					
	e PSZ	11 54 44					
12	i P Z	16 42 54.8	0.9	19.4	0 = 16 41 01.7, N. Calif. 39.4N, 120.1W	5.4, 8 km	800 km
	e S N	44 24					
	e S E	44 27					
	e L E	44 58					
	e L N	45 03					
	e L Z	16 45 25					
12	i P Z	17 22 02.2	1.0	3.4	0 = 17 20 13.3, N. Calif. 39.4N, 120.2W	4.8, 33 km	800 km

Sept.	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distance
18	i P Z	15 54 08.3			Local		
	i NE	54 15.7					
	i N	15 54 16.7					
19	i P Z	05 04 04.6C	0.8	1.6			
19	i P Z	07 13 44.9R	1.0	2.6	0 = 07 02 12.8, Fiji Is. 20.7S, 178.4W region	5.3,580 km	9400 km
19	i P Z	10 08 31.6R	0.8	1.0	0 = 10 06 42.4, Montana 45.9N, 111.2W	4.4, 6 km	800
	i L Z	10 10 31.5					
19	e P Z	11 27 34			Local		
20	e P Z	09 18 16			Local		
20	e P Z	09 46 37			Local		
20	i P ZNE	23 14 42.6			Local		
	i ZNE	23 14 44.9					
21	i P Z	23 46 16.4			Local		
	i Z	23 46 44.0					
22	i P Z	00 46 11.0C	0.5	2.0			
22	e P Z	18 59 24					
	e E	19 02 16					
	e N	02 20					
	e L Z	02 31					
	e L E	03 05					
	e L N	03 11					
	e Z	19 03 18					
22	e ZNE	22 14.0					
23	e E	01 22.0					
	e N	46.8					
	e E	47.6					
	e E	01 59 17					
	e N	02 06.3					
23	e LNE	12 02.0			0 = 11 56 09.7, Southern 37.3N, 114.2W Nevada	4.5,33 km	1100 km
23	e Z	19 31.0					
23	e P Z	21 57 21			0 = 21 50 23, Andreanof Is. 51.4N, 177.3W	4.6,39 km	4000 km
24	e P Z	00 37 22			Local		
24	e P Z	01 07 20			Local		
24	e P Z	04 49 15			Local		
24	e P Z	09 04 06.6	1.0	0.7	0 = 08 57 10.2, N. Pacific 12.0N, 130.8W Ocean	5.3,33 km	3900 km
24	e P Z	10 04 35			Local		

Sept.	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distance
24	e P Z	11 33 28					
24	i P Z	14 56 08.5C	0.3	2.2			
	i Z	14 56 11.6					
24	i P Z	15 05 24.2C	0.5	2.3			
	i Z	15 05 30.8					
24	i P Z	22 00 38.1C	0.4	0.7			
25	i P Z	05 01 22.1	1.1	3.8	O = 04 49 36.9, Mariana Is. 19.2N, 145.7E	5.5,133 km	8600 km
25	i P Z	06 02 22.8	0.8	5.4			
	i Z	06 02 40.7					
25	i P Z	06 08 59.4R	0.9	7.9	O = 06 02 26.4, Guerrero,Mex. 18.3N, 100.8W	6.1, 60 km	3700 km
	iPcPZ	11 39.9					
	eSNE	14 19					
	e S Z	14 .6					
	e L NE	16 .7					
	e L Z	16 56					
	eScSZ	06 19 21					
25	e P Z	16 37 22			Local		
26	e E	05 56.7					
	e Z	06 03.4					
26	i P Z	21 10 50.9C					
27	i P ZNE	12 43 38.9C			Local		
	i ZNE	12 43 41.4					
28	i P Z	01 33 57.3C	0.7	2.0	Local (MR)		
	i E	01 34 05.2					
28	e P Z	10 24 21			Local (MR)		
28	e P Z	14 13 55			O = 14 00 22.9, Yunnan Province, China 27.4N, 100.1E	6.2, 33 km	10,800km
	e E	24 43					
	e ZN	25 .6					
	e E	32 16					
	e N	32 26					
	eSSSE	35 48					
	e Z N	36 53					
	e Z	47 50					
	e N	48 15					
	e E	48 40					
	e Z	53 46					
	e N	14 53 54					
28	i P Z	18 50 51.1	0.9	3.8			
28	i P Z	19 07 50.9	0.3	5.2	Local (MR)		
	i E	07 57.9					
	N	07 59.5					
	Z	19 08 00.0					

Sept.	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
28	e P Z	19 22 .5			Local		
	i Z	19 23 12.6					
28	e P Z	23 29 49					
	i NE	29 49.4					
	i NE	23 30 14.4					
29	i P Z	02 56 16.8R			O = 02 44 19.0, Fiji Is. 19.9S, 176.2W Region	5.5,246 km	9200 km
29	i P Z	21 59 44.2			Local		
	i NE	21 59 49.9					
29	i P Z	22 07 58.3C	0.6	1.4	Local		
	i E	08 05.8					
	i E	22 08 10.1					
30	i P Z	09 30 04.0	1.0	2.1			
	i NE	30 05.4					
	i E	30 09.0					
	i NE	09 30 14.4					
30	i P Z	09 41 09.3	0.9	3.0	O = 09 29 11.6, N. Chile 18.3S, 69.7W	5.2,122 km	8900 km

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Latitude: 46° 45.0'N Elevation: 2800 feet
Longitude: 122° 48.6'W Foundation: Volcanic Breccia

T = period. A = peak to peak amplitude for S.P.Z., Magnification 100 K

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
Oct. 1	e P Z	10 02 13			local (MR)		
2	e P Z	07 30 20			0=07 23 35.3 Abdreanof Is. 51.6N, 176.5W	5.1, 34 km	3750 km
	e S ZNE	35 50					
	e L ZNE	07 38 0					
	e L E	07 38.3					
3	e P Z	14 05 21					
3	e P Z	21 24 44	1.0	1.2			
4	i P Z	04 09 00.7					
4	e P Z	07 06 03			Local (MR)		
4	i P Z	07 35 28.9C	1.0	2.1	0 = 07 22 54.6, S. of Mariana Island 12.0N, 142.1E	5.2, 47 km	9450 km
4	i P ZNE	21 59 27.8CNE			Local		
	i NE	21 59 35.2					
4	iPZ NE	22 46 27.8CSE			Local		
	i NE	22 46 29.6					
5	iPZ NE	00 15 02.6CNE			Local		
	i NE	15 04.9					
	i Z	00 15 05.0					
5	i P Z	09 06 34.1C	1.0	3.6			
5	e E	09 47.3					
	e Z	09 47.5					
5	i P Z	21 25 47.5CR			Local		
	i NE	21 25 48.0					
6	i P Z	01 07 05.2C	0.7	0.8			
6	e P Z	23 31 08.6					
	i ZNE	23 31 33.9					
6	i P ZNE	23 45 50.2CNW	0.4	1.0	Local		
	i NE	23 45 57.9					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
7	i P Z	16 08 00.4R	1.0	5.0	0 = 15 55 10.8, Loyalty Is. 21.6S, 170.5E Region	6.4, 161 km	10,200 km
	e ZNE	18.6					
	e ZNE	19 56					
	e NE	24 50					
	e E	29 25					
	e NE	31 49					
	e E	32 07					
	e E	16 33.0					
7	iPZ NE	17 33 12.4 CSE			Local		
	i NE	17 33 14.7					
7	iPZ NE	20 44 49.9 CNE			Local		
	i NE	20 44 51.9					
7	i P Z	21 00 47.8 R	0.9	5.9	0 = 20 55 56.0, S. Alaska 61.6N, 150.1W	5.7, 56 km	2500 km
8	e P Z	00 24 29			0 = 00 12 18.1, Fiji Is. region 16.4S, 177.6W	4.9, 33 km	9000 km
	e G NE	45.5					
	e L Z	00 49.1					
8	e P Z	02 46 23			0 = 02 34 16.1, Fiji Is. region 16.5S, 177.5W	4.9, 57 km	9100 km
	e S E	02 56.6					
	e G NE	03 07.4					
	e LZNE	03 10.9					
8	e P Z	03 11 33	1.0	2.9	0 = 03 06 46.4, Kodiak Is. region 57.7N, 151.6W	5.0, 32 km	2450 km
8	i P Z	17 50 36.6	0.6	0.9	0 = 17 43 56.1, Andreanof Is. 51.6N, 173.8W	5.5, 35 km	3800 km
8	i P ZNE	20 26 54.9 CN			Local		
	i ZNE	20 26 57.3					
9	e P Z	07 07 04.5	0.3	0.6			
9	e N	07 36					
	e E	38.9					
	e ZN	44					
	e NN	07 48.0					
9	e P Z	08 14 20	0.9	0.8	0 = 08 10 28.0, Gulf of Calif. 31.3N, 144.3W	5.0, 33 km	1850 km
	e L E	19 34					
	e L N	13 43					
	e L Z	08 20 43					
9	i P ZNE	15 25 49.9 CSE			Local		
	e NE	15 25 51.1					
10	e P Z	05 36 32			Local (NR)		
10	i P Z	21 20 49.6 R	0.9	11.9	0 = 21 17 34.5, SE Alaska 57.4N, 136.2W	4.8, 33 km	
	e NE	23.6					
	e Z	24.42					
	e N	25.34					
	e N	25 41					
	e E	21 26 06					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
10	e P Z	21 49 08					
10	e P Z	21 53 49.0 C					
	e Z	55 14					
	i Z	21 55 29.3					
11	i P Z	05 51 51.4 R	0.8	0.9	0 = 05 39 07.1, near coast of 29.8S, 71.2W Chile	5.3, 33 km	10,000 km
11	e P Z	06 45 03			0 = 06 25 55.1, S. Sandwich Is. 60.3S, 26.0W	5.9, 37 km	14,900 km
	i Z	45 06.6					
	i Z	06 48 29.1	1.0	4.6			
	e NE	07 24.4					
	e E	29 42					
	e E	33.					
	e Z	35.7					
	e NE	07 36.6					
11	i P Z	07 46 56.8	1.0	1.0			
		07 48 02.4					
11	e P Z	08 18 53					
11	e P Z	08 21 15	0.9	1.8			
11	i P Z	11 40 44.9 C	0.9	2.9			
11	e P Z	16 41 15					
	i Z	16 41 42.2					
11	i P Z	16 54 41.2 C	1.0	1.6	0 = 16 49 49.0, Central Alaska 62.7N, 149.5W	4.4, 85 km	2600 km
11	e P Z	17 02 08					
11	i P Z	17 54 26.0 R	1.0	3.3	0 = 17 52 31.3, Hebgen Lake, 44.8N, 111.2W Montana	4.6, 12 km	800 km
11	i P Z	20 39 27.7 C			Local		
	i E	20 39 32.5					
11	i P Z	22 29 13.0			Local		
	i NE	22 29 15.5					
12	e P Z	03 23 47	1.0	3.5	0 = 03 19 25.4, S. Alaska 60.5N, 144.4W	4.5, 33 km	3200 km
12	e ZE	19 15.0					
12	e P Z	20 28 31			0 = 20 20 06.8, Near coast of Nicaragua 11.2N, 86.2W	5.6, 43 km	5100 km
	i Z	20 28 32.0					
12	i P Z	20 30 06.9 C	1.0	9.7			
	e ENE	20 44.0					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
13	i P Z	02 20 07.8	1.3	4.2	0 = 02 15 45.2, Gulf of	5.0, 10 km	2200 km
	e ZNE	02 23 50			59.5N, 145.2W Alaska		
13	i P Z	15 56 09.2	1.0	5.0			
13	e Z	18 52 31					
	e N	58.0					
	e E	18 58 23					
	e NE	19 01.2					
	e Z	02.0					
	e E	05.9					
	e Z	06 05					
	e N	19 06 50					
14	e ZN	01 53.6					
14	i P Z	18 03 20.1 C	0.5	0.7	0 = 18 02 15, Vancouver Is.	4.1, 33 km	400 km
					48.8N, 127.4W		
14	i P Z	18 11 30.1 C			Local		
	e E	11 36.9					
	i N	18 11 37.3					
14	e P Z	20 36 54			0 = 20 34 28.9, Central Calif.	4.6, 9 km	1000 km
					37.0N, 121.7W		
15	e P Z	23 00 51					
16	e P Z	07 00 48					
16	i P Z	09 24 55.5	1.0	2.3	0 = 09 13 31.0, S. of Honshu,	5.5, 56 km	8000 km
					29.6N, 142.4E Japan		
16	e P'Z	13 14 11			0 = 12 55 30.8, S. Sandwich Is	5.6, 10lkm	14,600 km
	i Z	13 14 27.0 CH	1.0	7.3	56.1S, 27.1W		
17	e P Z	10 28 13			0 = 10 15 40.6, Santa Cruz Is.	5.3, 55 km	9600 km
					11.0S, 166.7E		
17	i P Z	18 31 48.6 R	1.1	5.0	0 = 18 20 07.8, S. of Fiji Is.	5.0, 635 km	9700 km
					22.3S, 179.1E		
17	e P Z	10 28 34			Local (HR)		
17	i P Z	21 53 01.0 C	1.2	7.8	0 = 21 41 56.3, Near coast of	7.5, 38 km	7900 km
					10.7 S, 78.7W Peru		
18	e P Z	01 41 26	0.7	0.5			
18	e P Z	03 40 35					
	e Z	03 41 13					
18	i P Z	04 15 01.9 RC	0.9	2.9			
18	i P Z	18 53 34.6 CR	1.0	1.8	0 = 18 43 34.9, Colombia	4.8, 47 km	7300 km
					3.6N, 74.2W		

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
19	e P Z	08 15 33			0 = 08 01 33.8, N. of Ascension	6.7, 33 km	11,400 km
	e PPZ	19.8			1.6S, 15.5W Island		
	e PPNE	20.0					
	e SKSE	26.12					
	e S N	08 27 30					
	e N	09 03 12					
	e N	09 11.7					
20	e Z	15 46.0					
	e E	15 47.0					
20	e P Z	18 00 52					
20	i P Z	21 12 06.5			Local		
	i NE	21 12 08.5					
21	i P Z	20 19 33.4 cR			Local		
	i NE	20 19 49.2					
22	e P Z	17 16 17	0.8	1.4	0 = 17 16 26.8, Nevada	4.1, 38 km	650 km
					40.6N, 116.2W		
23	e ZE	16 09.2					
	e Z	12 42					
	e E	16 14 36					
24	i P Z	11 06 56.8 cR	0.7	6.6	0 = 11 05 34, off coast of	4.2, 33 km	650 km
					44.5N, 129.0W Oregon		
24	e P Z	14 01 55					
25	e P Z	16 42 15					
25	i P Z	20 17 17.6	0.5	1.3			
26	e P Z	18 04 43	1.0	1.4			
26	i P Z	18 41 53.7 C	1.0	3.6	0 = 18 28 58, New Britain	4.9, 57 km	10,000 km
					4.2S, 152.9E Region		
27	e P Z	03 39 57					
27	i P Z	06 08 08.5 C	1.0	32.0			
	e ZNE	26.5					
	e ZN	06 36.3					
27	e P Z	06 37 10					
27	e P Z	07 02 44					
27	i P Z	09 29 58.9 R	1.0	3.1	0 = 09 18 15.5, Mariana Is.	5.4, 118 km	8600 km
					20.2N, 145.6E		
27	e NE	12 28 34					
	e N	43.2					
	e Z	44.5					
	e E	12 47.9					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
27	e P Z	14 32 49	0.5	3.8	0 = 14 21 04.8, N. Pacific	6.0, 29 km	8600 km
	e S E	42 24			22.2N, 145.9E Ocean		
	e S ZN	42 28					
	e Z	46 48					
	e SSN	47 36					
	e L ZN	5 52 2					
	e ZE	14 55.5					
27	i P Z	16 08 21.4 C			Local		
	i ZNE	16 08 22.9					
27	e P Z	23 57 21			0 = 23 46 47.7, Hokkaido,	5.3, 71 km	7200 km
					41.7N, 141.9E Japan		
28	e ZE	02 22.1					
28	e P Z	11 45 58					
28	i P Z	22 02 48.2 C			Local		
	i NE	22 02 52.6					
28	i P Z	22 24 52.6 C	1.5	2.8			
	e ZN	22 37.1					
29	e P Z	01 58 32			Local		
29	i P Z	02 52 20.1 R	1.0	1.2	0 = 02 39 29.4, Greece	5.7, 20 km	9800 km
	e Z	03 18.5			39.2N, 21.2E		
	e E	24.5					
	e NE	25.2					
	e Z	26.8					
	e N	03 30 55					
29	e P Z	14 43 10					
29	e N	16 00 20					
	e N	08 27					
	e Z	08.7					
	e N	16 13 35					
29	i P Z	20 04 36.3			Local		
	i E	37.5					
	i N	20 04 37.9					
29	i P Z	23 27 04.1 C			Local		
	i E	27 11.5					
	i NE	23 27 14.0					
30	e L N	22 29 39			0 = 22 20 06, Gulf of Calif.	4.4, 33 km	1900 km
	e L Z	22 30.5			30.7N, 113.5W		
31	e P Z	05 27 34			Local (MR)		
31	i P Z	17 30 36.8			Local		
	i ZE	17 30 37.9					

Seismograph Station
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Preliminary Readings: World-Wide Standard Seismograph Station, Longmire, Washington

November 1966

All locations and magnitude determinations are from U. S. Coast and Geodetic Survey

Latitude: 46° 45.0'N Elevation: 2800 feet
Longitude: 122° 48.6'W Foundation: Volcanic Breccia

T = period. A = peak to peak amplitude for S.P.Z., Magnification 100 K

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
Nov. 1	e P Z	07 11 15			0 = 07 01 00.4, Hokkaido, 43.2N, 143.4E Japan	4.8, 123 km	7000 km
1	i P Z	07 23 11.2R			0 = 11 22 53.6, Seattle 47.6N, 122.3W	3.0, 15 km	110 km
1	e P Z	11 42 27	0.6	1.2			
1	e P Z	15 02 36	0.9	1.3			
1	e P Z i ZNE i E	21 11 30.5 11 31.5 21 11 32.5			Local		
3	e P Z e N e L ZE e L ZN	11 46 26 12 02 17 07 08 12 11.2			0 = 11 37 22.7, Mona Passage 19.1N, 67.9W	5.2, 47 km	5800 km
3	e P Z i Z e L ZN e L E e L Z e L E e N e L Z	16 33 34 33 37.3C 48 12 52 54 54 06 54 13 56 11 16 56.8	1.0	3.5	0 = 16 24 31.0, Mona Passage 19.2N, 67.0W	5.6, 22 km	5800 km
3	i P Z i ZNE	17 47 04.8CR 17 47 07.0			Local		
3	i P Z	19 46 59.1CR	0.5	3.7			
3	i P Z	20 56 39.2R	0.5	1.4			
4	i P Z e E e ZN e Z	06 12 52.0R 27 20 27.9 06 31 52	1.0	2.7			

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
4	i P Z	06 44 11.6C	1.0	2.0	0 = 06 36 36.4, Near coast of	4.8, 35 km	45000 km
	e L ZE	58.5			14.3N, 93.3W Chiapas, Mexico		
	e L N	06 58 44					
4	e P Z	14 56 22	1.0	0.6			
	e NE	15 07.7					
	e Z	15 08.1					
4	e P Z	20 31 30	0.7	1.9	0 = 20 30 13, Vancouver Is.	4.2, 33 km	600 km
					49.4N, 128.6W		
5	e P Z	01 28 21					
5	e P Z	02 43 13	1.0	1.4			
	e ZNE	03 05.5					
	e ZNE	12.0					
	e N	16 05					
	e Z	16 38					
	e ZE	30.7					
	e ZNE	03 50.6					
5	i P Z	02 48 46.1CR	0.7	3.7			
	i Z	02 49 09.0					
5	e P Z	12 57 09	1.3	3.1	0 = 12 45 13.9, Tonga Is.	5.3, 38 km	8700 km
	e S ZNE	13 07 08					
	e L N	12 05					
	e L E	12 30					
	e G ZNE	17.4					
	e L NE	20 57					
	e L Z	13 21 08					
5	i P Z	23 26 58.5R	0.5	1.0			
5	i P Z	23 41 27.5			Local		
	e ZN	23 41 30.2					
6	i P Z	00 18 45.6			Local		
		00 18 47.8					
6	e ZNE	08 56.0					
6	i P Z	10 51 25.5			Local		
	i S ZN	10 51 55.2					
6	e P Z	13 23 12					
6	i P Z	14 54 40.1C	1.0	2.8	0 = 14 43 16.6, Fiji Is.	4.8, 548 km	92000km
7	i P Z	17 16 42.7C	0.4	14.4	Local		
7	e P Z	17 49.5					
7	e P Z	23 29 42	1.0	1.6			

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
8	i P Z	01 00 20.7	0.5	1.0			
8	e P Z	11 43 40	0.6	0.4	0 = 11 35 57.0, Near Is. 52.4N, 173.0E	4.9, 41 km	4700 km
8	e P Z	22 56 03			Local (MR)		
9	e P Z	03 12 10					
	i Z	03 13 17.7					
9	i P Z	11 38 55.2rC	1.0	3.2	0 = 11 26 24.7, N.E. Taiwan 51.9N, 173.7W	5.4, 39 km	9400 km
9	e P Z	14 16 22	0.9	1.3	0 = 14 09 44.4, Andreanof Is. 51.9N, 173.7W	4.8, 47 km	3800 km
	e L NE	24.1					
	e L Z	14 24.4					
9	i P Z	17 44 21.0 c			Local		
	i Z	44 22.0					
	i N	17 44 23.8					
9	i P Z	19 58 35.0	1.1	3.7			
9	e N N	22 20.5					
	E	22 22.9					
9	i P Z	22 51 00.0	0.8	0.4			
9	i P Z	23 19 26.9cR			Local		
	i N	23 19 37.8					
10	i P Z	03 15 27.5	1.6	8.0	0 = 03 02 32.5, San Juan Province Argentina 31.9S, 68.4W	6.0, 113 km	10,300 k
10	i P Z	21 42 50.3cR	1.0	1.0			
11	i P Z	02 31 11.8C			Local		
	i ZN	31 14.3					
	i N	02 31 16.0					
11	e P Z	03 24 27			0 = 03 191 7, Gulf of Calif. 25.1N, 109.2W	4.3, 33 km	2600 km
11	e P Z	15 37 18			0 = 15 31 04.2, Fox Island 52.3N, 169.1W	5.4, 38 km	3500 km
	e S E	42 22					
	e L ZN	15 43.6					
11	i P Z	18 00 13.8c			Local		
	i N	18 00 27.4					
11	e P Z	18 22 52					
	e NE	24 23					
	e Z	18 25.0					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
11	i P Z	22 26 27.4R			Local		
	i N	22 26 43.4					
12	i P Z	12 02 54.9R	0.9	7.6			
12	e P Z	13 00 05			0 = 12 49 43.6, Hokkaido, Japan	5.8, 33 km	7000 km
	e S ZNE	08 42			41.8N, 144.1E		
	e L Z	15 14					
	e G NE	15.9					
	e L NE	20.1					
	e Z	13 20.6					
12	e P Z	18 57 51			0 = 18 45 01.0, New Hebrides Is.	5.2, 40 km	10,000 km
	e Z	18 58 14			15.6S, 167.3E		
13	i P Z	03 01 31.1 R					
13	i P Z	18 50 57.0c	0.9	2.3			
13	e P Z	23 28 51			Local		
	i Z	29 17.3					
	i N	23 29 18.0					
14	i P Z	13 10 34.3R	1.0	6.3			
15	i P Z	00 15 17.0R	0.6	1.3	0 = 00 08 07, Andreanof Is.	5.0, 43 km	4200 km
					51.4N, 179.9W		
15	e P Z	00 44 39			Local		
	i Z	00 45 06.1					
15	i P Z	01 06 33.1					
15	e P Z	16 25 58	0.7	1.3	0 = 16 19 07.4, Andreanof Is.	5.0, 48 km	4,000 km
					51.2N, 176.6W		
15	e P Z	16 54 31					
15	i P Z	19 37 51.5c			Local		
	i ZN	19 38 03.7					
16	e P Z	20 21 20.0					
	i Z	21 49.1					
	i N	20 21 49.4					
16	i P Z	23 22 26.4R	1.0	2.5	0 = 23 16 09.1, Fox Is.	4.9, 33 km	3400 km
					52.6N, 169.5W		
17	e P Z	04 05 46					
17	e P Z	06 13 16.7			Local		
	i N	13 19.6					
	i Z	13 20.0					
	i Z	06 13 22.2					
17	e P Z	14 00 58					
	e Z	14 10 47					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
17	e P Z	14 50 09			0 = 14 43 10.2, Andreanof Is. 51.1N, 176.5W	4.7, 45 km	4000 km
17	i P Z	18 20 37.0			Local		
	i Z	20 38.3					
	i N	18 20 40.0					
17	e P Z	23 09 11					
	i Z	23 09 41.1					
18	i P Z	09 24.42.3	1.0	1.6			
	e ZNE	35 12					
	e E	47.5					
	e ZN	09 48.5					
	e ZN	10 11.3					
18	e P Z	18 58 14	1.2	1.1			
	e L ZNE	19 15.2					
19	i P Z	07 13 07.0			Local		
	i NE	07 13 08.4					
20	e P Z	08 14 53			Local (MR)		
20	i P Z	09 36 52.4R	0.7	3.2	0 = 09 29 59.1, Andreanof Is. 54.4N, 176.6W	5.1, 54 km	4000 km
20	i P Z	15 48 45.1R	0.7	4.8			
20	e ZE	19 41.6					
	e N	19 41.7					
20	i P Z	19 43 37.8c	0.7	10.7	200 K		
21	e P Z	01 26 14	1.0	1.8	200 K		
22	i P Z	06 39 04.1c	1.1	16.6	0 = 06 29 53.5, Sea of Okhotsk 48.2N, 146.7E	5.6, 453 km	6400 km
	e ZNE	41 12					
	eSS NE	06 46 18					
22	e P Z	07 20 18c	1.5	7.4	0 = 07 01 11.1, S. of Sandwich Is. 57.9S, 25.3W	5.6, 38 km	15,000 km
22	i P Z	09 00 03.6cR	0.7	1.2	0 = 08 52 18.2, Near Is.	4.9, 55 km	4700 km
22	i P Z	22 45 10.4			Local		
	i NE	22 45 27.3					
22	i P Z	23 15 19.8			Local		
	i E	15 22 0					
	i N	23 15 22.9					
23	e P Z	01 47 18			Local		
	e Z	01 48 40.8					
23	i P Z	02 32 02.4cR	1.3	1.5			

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
23	e Z NE	02 12.7					
	e N	25.1					
	e ZE	02 28.7					
23	i P Z	22 33 39.4			Local		
	i E	33 45.5					
	i N	22 33 46.0					
24	i P Z	06 58 24.2c	0.8	0.9			
	e ZNE	07 02.5					
24	i P Z	13 03 33.8			Local		
	i E	13 03 35.9					
24	e P Z	15 12 11			0 = 15 07 24, Kodiak Is.	4.5, 33 km	2450 km
e	e ZNE	15 16.3			56.5N, 153.0W		
24	e P Z	16 58 42					
	e Z	17 06.5					
	e NE	22.3					
	e Z	17 22.6					
24	e P Z	19 22 51.0			0 = 19 10 53.8, Mariana Is.	5.1, 88 km	8,800 km
	i S Z	19 22 51.9 c			17.2N, 146.0E		
25	i P Z	03 31 36.3 c	1.1	0.8			
	e E	41 20					
	e Z	41 30					
	e ZNE	03 56.0					
25	i P Z	05 14 26.7R			Local		
	i N	14 48.7					
	i E	05 14 48.9					
26	i P Z	02 30 50.7	1.1	3.3	0 = 02 18 17.0, Near coast of	5.5, 54 km	9700 km
	e ZNE	03 02.4			25.6S, 70.6W N. Chile		
	e E	47.0					
	e N	47.5					
	e Z	03 51 24					
26	i P Z	04 32 39.8R	0.5	2.0	0 = 04 30 58, off coast of N.	4.6, 33 km	750 km
	e L NE	34.1			40.3N, 125.5W Calif.		
	e L Z	04 34.5					
26	e P Z	06 58 19.8					

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All locations and magnitude determinations are from U.S. Coast and Geodetic Survey

Latitude: 46° 45.0'N Elevation: 2800 feet
Longitude: 122° 48.6'W Foundations: Volcanic Breccia

T = period. A = peak to peak amplitude for S.P.Z., Magnification 100 K

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
Dec. 1	i P ZN	23:45:12.8	--	--	Local		
	i ZNE	23:45:13.9					
2	i P ZNE	01:38:45.6 eR	--	--	Local		
	i E	01:38:46.8					
4	e P ZNE	03:03:59.0	--	--	Local		
	i ZNE	04:02.2 R	--	--			
	i N	03:04:03.9					
4	e P Z	14:09.7	--	--			
5	i P Z	00:57:23.8 eC	0.7	1.7	O = 00 56 10, Off coast of 44.1N, 127.8W, Oregon	3.6, 33 km	500 km
5	e P Z	20:47:55	--	--			
6	i P Z	22:41:05.9R	0.9	3.8			
6	e ZNE	21:40.2	--	--			
	e ZN	22:00.7					
6	e P Z	23:34:20	--	--	Local (MR)		
7	e P Z	16:54:24	--	--	Local (MR)		
7	e P Z	17:25:28	--	--	Local (MR)		
7	i P Z	17:27:30.9	1.6	5.1	O=17 17 42.0, Kurile Is. 44.3N, 151.7E	5.5, 26 km	6,400 km
	e N	34:51					
	e E	35:25					
	e S Z	35:35					
	e L ZE	41.4					
	e ZR	17:45.6					
7	i P Z	20:23:26.7 C	0.7	4.3	Local		
7	e P Z	20:45:35	--	--			
9	i P Z	12:45:06.7 R	--	--	Local		
	i E	45 38.6					
	i N	12:45 39.1					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	Magnitude and depth	Distance
8	i P Z	15:11:21.5 C	0.7	1.2			
	e ZNE	:17.9					
	e ZE	15:24.7					
8	i P ZNE	21:44:37.1 C	--	--	Local		
	i NE	21:44:42.1					
8	e P Z	23:30:17	--	--	Local (MR)		
9	e P Z	09:46:54	--	--	Local (MR)		
9	i P ZNE	11:07:49.4	--	--	Local		
	i ZNE	11:07:51.0					
9	e ZE	17:00.7					
	e Z	04.5					
	e E	17:04.9					
10	i P Z	13:14:09.5 C	0.7	19.6	0=13 06 32.6 , Guatemala 14.3N, 92.0W	5.6, 70 km	4500 km
	e S ZNE	20:25					
	e G ZNE	23:37					
	e ZNE	13:29.5					
10	e E	17:49.0	--	--			
	e Z	17:52.0					
10	e P Z	18:21:33	--	--	0=18 08 14.4 , Near N. coast of New Guinea 3.6S, 145.4E	5.7, 33 km	10,600 km
	e E	32:10					
	eSKKSZN	32.4					
	eSKPP^0N	50.0					
	e L ZE	18 50.7					
11	e P Z	00 44 26	1.0	1.2			
11	i P Z	03:36:02.5 r	1.0	2.2			
11	i P Z	20 04 24.6 e	1.0	2.6			
11	i P Z	20 07 35.3 eR	0.7	16.5	0=20 01 03.5, Andreanof Is. 52.9N, 176.1W	5.2, 216 km	3,900 km
11	e P Z	20:20:38	1.3	3.3	0=20 08 22.3, Mariana Is. 13.4N, 146.0E	5.6, 50 km	9,100 km
	e S ZNE	20:30.6					
13	i P ZNE	15:07:10.6 e	--	--	Local		
	i Z E	:07:37.4					
	i N	15:07:37.6					
14	i P Z	03:50:39.3 R	1.0	3.2	0= 03 44 01.9, Andreanof Is. 52.9N, 177.6W	5.3, 243 km	4,000 km
14	i P Z	21:21:14.8 e	1.7	3.6	0= 21 07 52.1, New Guinea 4.8S, 143.9E	6.0, 74 km	10,700 km
	e Z	31:18					
	eSKSE	31:42					
	e PSZE	33:49					
	e G N	47.7					
	e ZE	21:51.8					

Date	Phase	Time G.C.T.	T.	A.	Location and origin		
15	i P ZN	14:46:05.5 C	--	--	Local		
	i Z E	14:46:17.1					
15	i P Z	23:59:33.6	--	--	Local		
	i ZN	23:59:41.2					
16	e P Z	12:00:16	1.0	2.3			
17	i P Z	08:35:00.8			Local		
17	e P Z	15:18:12	--	--	0=15 16 31, Off coast of N. Calif. 40.3N, 125.7W	4.6, 33 km	800 km
18	i P Z	05:10:22.2 C	0.7	23.2			
18	i P Z	07:11:47.2 C			Local		
	i N	07:11:48.3					
20	i P Z	00:31:44.3 C	1.3	5.5	0= 00 26 27.8, Alaska 66.7N, 148.7W	4.8, 33 km	2,800 km
	e E	38.0					
	e L Z	39.6					
	e L ZN	40.6					
	e Z N	00:41.2					
20	i P Z	01:03:14.2 C	1.3	3.6	0= 00 57 53.1, Alaska 66.7N, 148.7 W	4.7, 33 km	2,800 km
	e S E	07.8					
	e E	09.5					
	e Z N	01:11.6					
20	e P Z	04:58:52	--	--			
20	e E	02:41.2	--	--			
	e Z	02:42.7					
20	e P Z	06:06:34	--	--	Local (MR)		
20	e N	08:07.0	--	--			
	e ZN	08:10.7					
20	i P Z	12:38:51.3 R	1.0	10.8	0= 12 26 55.0, Santiago del Estero, Arg. 26.1S, 63.2W	5.7, 589 km	10,000 km
20	i P Z	15:32:32.0 C	1.0	84.4	Nuclear test, Las Vegas, Nev.		
	e E	34:33					
	e Z	34:39					
	e NE	35:07					
	e Z	35:26					
	e E	35.5					
	e ZN	15:35:42					
21	e E	21:33.0	--	--			
	e N	21:34.5					
	e Z	21:36.5					
22	i P ZNE	20:13:49.4 R	--	--	Local		
	i ZNE	13:50.7					
	i N	14:13.0					
	i ZNE	20:14:14.4					
23	i P Z	01:22:37.9 C	0.9	4.4	0= 01 11 15.6, Fiji Islands 17.9S, 178.6W	5.0, 575 km	9,200 km
23	i P Z	16:03:41.3 eR	1.7	8.9	0= 15 50 20.4, E. New Guinea 7.1S, 148.3E	6.4, 43 km	10,600 km
	e E	21:30					
	e N	30:0					
	e N	34.0					
	e Z	34:08					
	- P	16:24:18					

Date	Phase	Time G.C.T.	T.	A.	Location and origin time	and depth	Distance
23	i P Z	18:05:21.0	0.7	3.1			
24	e P Z	22:33:54	--	--	O= 22 28 59.6, Southern	5.1,113 km	2,500 km
	i SPZ	22:34:16.5	1.7	17.4	59.9N, 153.4W Alaska		
	e S ZN	38.1					
	e L NE	22:38.6					
24	i P Z	22:41:07.1 RC	1.0	7.4			
25	i P ZNE	05:02:32.9	--	--	O= 05 02 11.5, Sultan, Wash.	3.2, 25 km	120 km
	i N	:02:46.8			47.9N, 121.8W		
	i ZE	05:02:47.1					
25	e L_1 NE	23:20.0	--	--	O= 23 03 22.8, Rat Island	4.8, 47 km	4,300 km
	e P_Z Z	23:22.8			51.8N, 176.1E		
27	e P Z	01:33:11	--	--			
27	i P Z	12:03:06.2 eR	0.8	2.4			
27	i P Z	21:30:12.1 R	0.9	4.3	O= 21 22 14.8, El Salvador	5.5, 66 km	4,800 km
	e S E	36.6			13.2N, 88.8W		
	e L ZN	21:43.3					
	e ZE	22:04.1					
27	i P Z	21:35:47.5 C	1.0	5.0			
28	e P Z	02:40:02	--	--			
28	e P Z	08:30:40	2.2	112.9	O= 08 18 07.4,Near Coast of	6.9, 47 km	9,600 km
					25.5S, 70.7W N.Chile		
29	e NE	12:18.7	--	--			
	e E	30.3					
	e N	30.8					
	e ZN	34.3					
	e E	12:35.3					
29	e P Z	22:28:28	--	--	O= 22 16 22.7, Easter Island	5.4, 33 km	9,000 km
	e S ZNE	38.6			32.8S, 111.7 W		
	e L ZNE	22:55.0					
30	i P Z	10:56:09.9 rC	0.7	4.4	O= 10 55 04,Near Coast of	4.2, 33 km	400 km
	e L Z	10:57:11			42.5N, 124.8W Oregon		
31	e P Z	18:35:45.2	0.6	1.3	O= 18 23 03.9, Santa Cruz	7.5, 33 km	9,700 km
					11.8S, 166.5E Isl.		
31	e P Z	22:28:07	--	--			

1 07 AUGUST 1966

2 17 36 04 31N 115W 2 5.5-6.0 048 BAJA CALIF.
3 17 40 01.5 F3 176.0 00.6 C 09.0
4 17 40 14.5 F3 PP 17 40 01.5
4 17 40 24.0 F3 PPP 17 40 01.5
4 17 43 04.3 F3 S 17 40 01.5
4 17 45 05.1 F3 LG 17 40 01.5
4 18 16 15.0 F3 P'P' 17 40 01.5

2 20 18 36 43N 141E 3 5.0-5.5 224 HOKKAIDO, JAPAN REGION
3 20 30 01.3 AO 14.0 00.9 C 18.9
4 20 30 15.9 AO AP 20 30 01.3

2 20 22 52 15S 074W 2 4.5-5.0 117 SOUTHERN PERU
3 20 33 47.2 AO 06.0 00.9 C 17.8
4 20 34 06.4 AO AP 20 33 47.2

5 20 53 09.0 AO NEAR REGIONAL SW

1 08 AUGUST 1966

4 00 43 07.7 AO PKP -
4 00 43 26.0 AO AP 00 43 07.7

2 00 37 35 39N 141E 2 4.5-5.0 227 HONSHU, JAPAN
00 49 23.1 AO 06.0 00.7 C 19.7

2 01 23 05 32S 057W 3 4.5-5.0 142 URUGUAY
3 01 35 59.9 AO 04.0 00.7 C 23.4

5 04 23 29.3 AO REGIONAL SW

5 05 42 15.8 AO WEAK -

2 07 24 26 06S 163E 2 5.5-6.0 191 NORTH OF SOLOMON ISLANDS
3 07 37 47.4 AO 06.0 01.0 C 24.2
4 07 37 56.6 AO AP 07 37 47.4

5 07 41 49.5 F2 EMERGENT -

2 08 02 26 17N 108W 2 2 4.5-5.0 053 REVILLA GIGEDO ISLAND REG.
3 08 08 29.2 AO 23.0 01.2 D 12.4
4 08 08 44.7 AO AP 08 08 29.2
4 08 19 16.0 AO (R) 08 08 29.2

2 09 57 07 29S 064W 2 6.0-6.5 132 SANTIAGO DEL ESTERO PROV,ARG.
3 10 09 38.1 AO 110.0 00.7 D 22.5
4 10 28 13.1 AO PKKP 10 09 38.1

2 12 41 18 16N 150E 2 4.5-5.0 611 MARIANA ISLAND REGION
3 12 54 03.5 AO 04.0 01.1 C 23.1
4 12 54 22.0 AO AP 12 54 03.5

5 14 04 21 * AO EMERGENT -

TAPES FOR THE ABOVE EVENTS IN THE FOLLOWING MODES AND TIMES ARE AVAILABLE FROM THE LAO LIBRARY. FAST MODE TAPES WILL BE SAVED FOR TWO WEEKS.

4 AUGUST 1966
1400 GMT TO 1615 GMT SLOW MODE TAPES
1705 GMT TO 1825 GMT SLOW MODE TAPES

4 08 19 16.0 AO (R) 08 08 29.2

2 09 57 07 29S 064W 2 6.0-6.5 132 SANTIAGO DEL ESTERO PROV,ARG.
3 10 09 38.1 AO 110.0 00.7 D 22.5
4 10 28 13.1 AO PKKP 10 09 38.1

[illegible] 4.5-5.0 611 MARIANA ISLAND REGION
3 12 54 03.5 AO 04.0 01.1 C 23.1
4 12 54 22.0 AO AP 12 54 03.5

5 14 04 21 * AO EMERGENT -

TAPES FOR THE ABOVE EVENTS IN THE FOLLOWING MODES AND TIMES ARE AVAILABLR FROM THE LAO LIBRARY. FAST MODE TAPES WILL BE SAVED FOR TWO WEEKS.

4 AUGUST 1966
1400 GMT TO 1615 GMT SLOW MODE TAPES
1705 GMT TO 1825 GMT SLOW MODE TAPES
1830 GMT TO 1950 GMT SLOW MODE TAPES
1955 GMT TO 2355 GMT SLOW MODE TAPES
2358 GMT TO 2400 GMT SLOW MODE TAPES

5 AUGUST 1966
0000 GMT TO 0145 GMT SLOW MODE TAPES
0150 GMT TO 0201 GMT FAST MODE TAPES
0206 GMT TO 0323 GMT FAST MODE TAPES
0328 GMT TO 0544 GMT FAST MODE TAPES
0548 GMT TO 0556 GMT FAST MODE TAPES
0600 GMT TO 0712 GMT FAST MODE TAPES
0712 GMT TO 1200 GMT FAST MODE TAPES
1202 GMT TO 1637 GMT SLOW MODE TAPES
1646 GMT TO 1806 GMT SLOW MODE TAPES
1811 GMT TO 2211 GMT SLOW MODE TAPES
2305 GMT TO 2400 GMT SLOW MODE TAPES

6 AUGUST 1966
0000 GMT TO 0145 GMT SLOW MODE TAPES
0154 GMT TO 0226 GMT FAST MODE TAPES
0230 GMT TO 0438 GMT FAST MODE TAPES
0442 GMT TO 0602 GMT FAST MODE TAPES
0604 GMT TO 0852 GMT FAST MODE TAPES
0854 GMT TO 1205 GMT FAST MODE TAPES
1209 GMT TO 1329 GMT SLOW MODE TAPES
1334 GMT TO 1455 GMT SLOW MODE TAPES
2300 GMT TO 2400 GMT SLOW MODE TAPES

7 AUGUST 1966
0000 GMT TO 0140 GMT SLOW MODE TAPES
0146 GMT TO 1202 GMT FAST MODE TAPES
1205 GMT TO 1400 GMT SLOW MODE TAPES

R NEEDHAM / B MARTIN
BILLINGS LASA
1655 MST WEDNESDAY 10 AUGUST 1966

1 06 AUGUST 1966

5 16 12 40.5 A0 NEAR REGIONAL NE

5 18 40 15.9 A0 WEAK -

5 18 45 03.7 A0 EMERGENT -

2 19 33 41 47N 153E 2 4.5-5.0 221 KURILE ISLANDS
3 19 44 11.9 A0 07.0 01.2 C 17.1
4 19 44 26.0 A0 AP 19 44 11.9

5 20 21 41.2 E4 EMERGENT -

20 19 04 42N 148E 3 4.5-5.0 225 OFF COAST OF HOKKAIDO
3 20 30 16.8 E4 07.0 01.1 D 18.4
4 20 30 31.8 E4 AP 20 30 16.8

2 21 04 20 51N 173E 2 5.0-5.5 005 NEAR ISLANDS
3 21 13 18.8 A0 14.0 00.7 C 14.7

4 21 13 28.3 A0 AP 21 13 18.8
4 21 13 51.1 A0 (E) 21 13 18.8

2 21 00 40 11N 130E 1 5.5-6.0 260 EAST OF PHILIPPINE ISLANDS
3 21 14 42.5 A0 10.0 00.8 C 27.8

1 07 AUGUST 1966

5 00 27 43.0 A0 POOR -

2 02 13 03 51N 171W 1 6.0-6.5 00.9 FOX ISLAND REGION
3 02 20 53.2 A0 193.0 00.7 D 13.6
4 02 22 32.6 A0 PCP 02 05 53.2
4 02 30 57.7 A0 SCS 02 20 53.2
4 02 33 11.4 A0 R 02 20 53.2
4 02 50 18.8 A0 (E) 02 20 53.2
4 02 52 13.5 A0 P'P' 02 20 53.2
4 02 54 15.8 A0 (E) 02 20 53.2

2 03 07 58 03S 165E 2 5.0-5.5 191 NORTH OF SOLOMON ISLANDS
3 03 20 56.2 A0 09.0 00.8 D 24.3
4 03 20 59.3 A0 PCP 03 20 56.2
4 03 21 34.5 A0 AP 03 20 56.2
4 03 24 50.7 A0 PP 03 20 56.2

2 04 11 03 09N 086W 2 4.5-5.0 077 OFF COAST OF COSTA RICA
3 04 18 48.7 A0 07.0 00.7 D 13.6

2 05 14 09 03N 082W 2 5.0-5.5 083 SOUTH OF PANAMA
3 05 22 50.3 A0 13.0 00.9 C 14.4

2 05 33 42 13N 091W 1 5.0-5.5 071 NEAR COAST OF GUATEMALA
3 05 40 35.1 A0 15.0 00.7 C 13.1

4 05 43 00.6 A0 PKP -

2 08 20 56 08N 074W 1 5.0-5.5 099 NORTHERN COLOMBIA
3 08 29 30.2 A0 16.0 00.8 C 14.3

2 10 29 21 50N 098E 3 4.5-5.0 333 USSR-MONGOLIA BORDER REGION
3 10 41 33.5 A0 04.0 00.8 C 21.5

5 13 54 47.8 E3 POSSIBLE -

3 20 30 16.8 EA 07.0 01.1 D 18.4
4 20 30 31.8 EA AP 20 30 16.8

2 21 04 20 51N 173E 2 5.0-5.5 005 NEAR IS[illegible]
3 21 13 18.8 AO 14.0 00.7 C 14.7

4 21 13 28.3 AO AP 21 13 18.8
4 21 13 51.1 AO (E) 21 13 18.8

2 21 00 40 11N 130E 1 5.5-6.0 260 EAST OF PHILIPPINE ISLANDS
3 21 14 42.5 AO 10.0 00.8 C 27.8

1 07 AUGUST 1966

5 00 27 43.0 AO POOR -

2 02 13 03 51N 171W 1 6.0-6.5 00.9 FOX ISLAND REGION
3 02 20 53.2 AO 193.0 00.7 D 13.6
4 02 22 32.6 AO PCP 02 05 53.2
4 02 30 57.7 AO SCS 02 20 53.2
4 02 33 11.4 AO R 02 20 53.2
4 02 50 18.8 AO (E) 02 20 53.2
4 02 52 13.5 AO P'P' 02 20 53.2
4 02 54 15.8 AO (E) 02 20 53.2

2 03 07 58 03S 165E 2 5.0-5.5 191 NORTH OF SOLOMON ISLANDS
3 03 20 56.2 AO 09.0 00.8 D 24.3
4 03 20 59.3 AO PCP 03 20 56.2
4 03 21 34.5 AO AP 03 20 56.2
4 03 24 50.7 AO PP 03 20 56.2

2 04 11 03 09N 086W 2 4.5-5.0 077 OFF COAST OF COSTA RICA
3 04 18 48.7 AO 07.0 00.7 D 13.6

2 05 14 09 03N 082W 2 5.0-5.5 083 SOUTH OF PANAMA
3 05 22 50.3 AO 13.0 00.9 C 14.4

2 05 33 42 13N 091W 1 5.0-5.5 071 NEAR COAST OF GUATEMALA
3 05 40 35.1 AO 15.0 00.7 C 13.1

4 05 43 00.6 AO PKP -

2 08 20 56 08N 074W 1 5.0-5.5 099 NORTHERN COLOMBIA
3 08 29 30.2 AO 15.0 00.8 C 14.3

2 10 29 21 50N 098E 3 4.5-5.0 333 USSR-MONGOLIA BORDER REGION
3 10 41 33.5 AO 04.0 00.8 C 21.5

5 13 54 47.8 F3 POSSIBLE -

2 14 20 40 61N 148W 2 4.0-4.5 002 SOUTHERN ALASKA
3 14 17

EVENT READING 14 20 40 IS IN ERROR , SHOULD READ AS FOLLOWS

2 14 11 36 61N 148W 2 4.0-4.5 002 SOUTHERN ALASKA
3 14 17 26.2 AO 07.0 01.2 C 12.4
4 14 18 47.6 AO (E) 14 17 26.2
4 14 26 28.5 AO LG 14 17 26.2
4 14 43 21.3 AO PKKP 14 17 26.2

4 15 10 59.8 F2 PKP -

SEISMO BULLETIN LAO 218 (15:45 5 AUGUST TO 15:26 6 AUGUST)FORMAT 2

1 05 AUGUST 1966

5 15 01 05.4 AO REGIONAL SE

2 17 47 44 44N 018E 3 4.5-5.0 358 RUMANIA
3 17 59 47.1 AO 09.0 01.1 C 19.9
4 17 59 56.4 AO AP 17 59 47.1

5 18 20 08 AO REGIONAL SW

2 18 16 26 36N 142E 3 4.0-4.5 228 NEAR EAST COAST OF HONSHU
3 18 28 23.6 AO 04.0 01.1 C 20.2

2 19 59 19 27N 140E 3 5.0-5.5 212 BONIN ISLAND REGION
3 21 11 51.4 AO 08.0 00.8 C 22.5

2 20 08 11 02N 080W 2 5.0-5.5 083 SOUTH OF PANAMA
3 20 17 23.2 AO 20.0 00.8 C 14.5
4 20 17 34.1 AO AP 20 17 23.2
4 20 19 04.3 AO PCP 20 17 23.2

1 06 AUGUST 1966

2 02 31 26 45N 17E 2 5.0-5.5 358 RUMANIA
3 02 43 10.3 AO 18.0 01.0 C 19.5
4 02 43 30.7 AO AP 02 43 10.3

2 05 11 56 75N 021W 3 4.0-4.5 636 EASTERN GREENLAND
3 05 19 08.0 AO 04.0 01.1 C 13.8

2 05 52 29 45N 015E 2 4.5-5.0 383 YUGOSLAVIA
3 06 04 07.5 F3 07.0 01.1 C 19.2

5 06 17 17.0 F4 POOR -

2 07 26 19 51N 176E 4.0-4.5 006 RAT ISLAND
3 07 35 04.4 E4 03.0 01.1 C 14.4

5 07 38 38 * AO WEAK -

2 08 04 13 47N 149E 2 5.0-5.5 221 KURILE ISLANDS
3 08 14 55.5 F3 10.0 00.7 C 17.3
4 08 15 10.6 F3 AP 08 14 55.5

2 08 21 26 33N 142E 2 5.0-5.5 229 OFF EAST COAST OF HONSHU
3 08 33 33.6 F2 14.0 00.9 C 20.9
4 08 34 11.1 F2 AP 08 33 33.6

5 09 51 13.0 E1 POSSIBLE -

2 14 38 27 07S 075W 1 5.5-6.0 112 PERU-BRAZIL BORDER REGION
3 14 48 33.5 F2 44.0 00.9 D 16.2
4 14 48 53.7 F2 AP 14 48 33.5
4 14 49 08.3 F2 PCP 14 48 33.5

LAO 217 (15:34 4 August to 15:36

1 04 AUGUST 1966

2 15 29 44 10N 074W 2 4.5-5.0 099 NORTHERN COLOMBIA
3 15 38 00.8 AO 13.0 01.0 C 14.0
4 15 38 17.4 AO AP 15 38 00.8

2 19 00 30 47N 151E 3 4.5-5.0 221 KURILE ISLANDS
3 19 11 28.8 AO 03.0 00.7 C 17.1
4 19 11 42.3 AO AP 19 11 28.8

2 20 18 30 50N 130W 3 3.0-3.5 025 VANCOUVER ISLAND REGION
3 20 22 09.5 AO 02.0 00.6 C 08.6

5 20 31 04.3 AO NEAR REGIONAL SE

5 20 45 55.6 AO NEAR REGIONAL NW

22 01 15.6 AO POOR -

2 23 37 39 01S 077W 3 4.5-5.0 107 EQUADOR
3 23 47 06.2 F2 07.0 01.0 C 15.1

EVENT OF 022 01 15.6 WAS TYPED IN ERROR. SHOULD READ AS FOLLOWS

5 22 01 15.6 AO POOR -

1 05 AUGUST 1966

2 00 49 17 21S 067W 2 4.0-4.5 124 CHILE-BOLIVIA BORDER REGION
3 01 01 11.8 AO 04.0 01.0 C 19.7
4 01 01 44.8 AO AP 01 01 11.8

2 01 03 48 05N 083W 3 4.5-5.0 083 SOUTH OF PANAMA
3 01 12 05.7 F2 05.0 00.8 C 14.1

5 01 20 57.2 AO WEAK NW

5 01 34 51.7 F3 NEAR REGIONAL SW

2 03 52 03 48N 137W 3 3.5-4.0 021 WEST OF VANCOUVER ISLAND
3 03 56 42.0 AO 03.0 00.9 C 10.5

2 03 57 59 49N 080E 2 5.0-5.5 329 EASTERN KAZAKH
3 04 10 30.6 AO 21.0 00.8 C 22.2

2 04 25 56 48N 143E 2 5.0-5.5 662 SAKHALIN ISLAND
3 04 36 58.8 AO 12.0 01.0 C 18.0

2 04 27 02 50N 143E 2 4.5-5.0 652 SAKHALIN ISLAND
3 04 37 54.8 AO 10.0 01.2 C 17.7

2 04 33 31 03S 164E 2 5.0-5.5 191 NORTH OF SOLOMON ISLANDS
3 04 46 38.8 AO 16.0 01.2 C 24.0
4 04 46 58.8 AO AP 04 46 38.8
4 04 50 23.4 AO PP 04 46 38.8

2 11 20 45 32S 064W 2 5.0-5.5 141 CORDOBA PROV.,ARGENTINA
3 11 33 32.9 AO 12.0 00.9 C 23.0
4 11 34 08.4 AO AP 11 33 32.9

2 13 20 55 17N 098W 2 4.0-4.5 059 GUERRERO,MEXICO
3 13 27 06.6 AO 05.0 01.1 C 12.6

3 19 11 28.8 AO 03.0 00.7 C 17.1
4 19 11 42.3 AO AP 19 11 28.8

2 20 18 30 50N 130W 3 3.0-3.5 025 VANCOUVER ISLAND REGION
3 20 22 09.5 AO 02.0 00.6 C 08.6

5 20 31 04.3 AO NEAR REGIONAL SE

5 20 45 55.6 AO NEAR REGIONAL NW

22 01 15.6 AO POOR -

2 23 37 39 01S 077W 3 4.5-5.0 107 EQUADOR
3 23 47 06.2 F2 07.0 01.0 C 15.1

EVENT OF 022 01 15.6 WAS TYPED IN ERROR. SHOULD READ AS FOLLOWS

5 22 01 15.6 AO POOR -

1 05 AUGUST 1966

2 00 49 17 21S 067W 2 4.0-4.5 124 CHILE-BOLIVIA BORDER REGION
3 01 01 11.8 AO 04.0 01.0 C 19.7
4 01 01 44.8 AO AP 01 01 11.8

2 01 03 48 06N 083W 3 4.5-5.0 083 SOUTH OF PANAMA
3 01 12 05.7 F2 05.0 00.8 C 14.1

5 01 20 57.2 AO WEAK NW

5 01 34 51.7 F3 NEAR REGIONAL SW

2 03 52 03 48N 137W 3 3.5-4.0 021 WEST OF VANCOUVER ISLAND
3 03 56 42.0 AO 03.0 00.9 C 10.5

2 03 57 59 49N 080E 2 5.0-5.5 329 EASTERN KAZAKH
3 04 10 30.6 AO 21.0 00.8 C 22.2

2 04 25 56 48N 143E 2 5.0-5.5 662 SAKHALIN ISLAND
3 04 36 58.8 AO 12.0 01.0 C 18.0

2 04 27 02 50N 143E 2 4.5-5.0 662 SAKHALIN ISLAND
3 04 37 54.8 AO 10.0 01.2 C 17.7

2 04 33 31 03S 164E 2 5.0-5.5 191 NORTH OF SOLOMON ISLANDS
3 04 46 38.8 AO 16.0 01.2 C 24.0
4 04 46 58.8 AO AP 04 46 38.8
4 04 50 23.4 AO PP 04 46 38.8

2 11 20 45 32S 064W 2 5.0-5.5 141 CORDOBA PROV.,ARGENTINA
3 11 33 32.9 AO 12.0 00.9 C 23.0
4 11 34 08.4 AO AP 11 33 32.9

2 13 20 55 17N 098W 2 4.0-4.5 059 GUERRERO,MEXICO
3 13 27 06.6 AO 05.0 01.1 C 12.6
4 13 27 16.9 AO AP 13 27 06.6

5 14 53 13.5 AO NEAR REGIONAL SW

SEISMO STATION BULLETIN LAO 216 (15:43 3 AUGUST

1 03 AUGUST 1966

5 15 57 54.6 AO NEAR REGIONAL SE

2 16 00 21 56N 164E 2 4.0-4.5 218 NEAR EAST COAST OF KAMCHATKA
3 16 09 34.3 AO 05.0 00.9 C 14.9
4 16 09 44.2 AO AP 16 09 34.3

5 18 32 56.7 AO NEAR REGIONAL SE

2 18 55 30 55N 161W 2 5.0-5.5 218 NEAR EAST COAST OF KAMCHATKA
3 19 02 27.6 AO 13.0 00.7 D 12.9
4 19 04 53.5 AO PCP 19 02 27.6

2 19 01 44 35N 132E 3 4.0-4.5 232 SOUTH HONSHU, JAPAN
3 19 14 06.2 AO 03.0 01.0 C 21.8
4 19 14 18.1 AO AP 19 14 06.2

5 21 58 47 * AO NEAR REGIONAL SW

5 22 26 44.5 AO POOR -

1 04 AUGUST 1966

5 00 55 13.1 AO POOR -

2 00 54 26 15N 067W 2 4.0-4.5 094 CARIBBEAN SEA
3 01 02 55.1 AO 06.0 01.1 C 21.8

2 02 19 07 12N 066W 2 4.0-4.5 094 CARIBBEAN SEA
3 02 27 50.1 AO 04.0 00.9 C 14.4
4 02 28 10.7 AO AP 02 27 50.1

2 02 37 13 10N 060W 3 4.0-4.5 098 TRINIDAD
3 02 46 29.9 F2 05.0 00.9 C 14.9

2 03 26 54 05N 107W 3 4.0-4.5 693 EAST CENTRAL PACIFIC OCEAN
3 03 34 38.3 AO 07.0 01.8 C 13.6
4 03 34 49.8 AO AP 03 34 38.3

4 03 36 06.2 AO (E) 03 34 38.3

2 03 39 37 16N 067W 2 4.0-4.5 094 CARIBBEAN SEA
3 03 47 44.2 AO 04.0 00.9 C 13.9

2 03 44 45 16N 067W 3 4.0-4.5 094 CARIBBEAN SEA
3 03 52 52.1 AO 03.0 01.0 C 13.9

5 04 04 24.4 AO WEAK -

2 04 00 31 16N 067W 2 4.0-4.5 094 CARIBBEAN SEA
3 04 08 39.0 AO 05.0 01.0 C 13.9

2 04 10 05 16N 067W 3 4.0-4.5 094 CARIBBEAN SEA
3 04 18 12.2 AO 03.0 01.0 C 13.9

2 04 35 02 16N 067W 3 4.0-4.5 094 CARIBBEAN SEA
3 04 51 49.6 AO 06.0 00.9 D 14.3

2 04 46 15 50N 007W 2 5.0-5.5 402 N. ATLANTIC RIDGE

ERROR IN THE REPORT FROM EVENT 04 35 02 ON . CC

2 04 35 02 16N 067W 3 4.0-4.5 094 CARIBBEAN SEA
3 04 43 08.8 AO 03.0 01.0 C 13.9

2 04 43 14 57N 25W 3 4.5-5.0 402 N. ATLANTIC OCEAN
3 04 51 49.6 AO 06.0 00.9 D 14.3

2 04 46 15 50N 007W 2 5.0-5.5 402 N. ATLANTIC OCEAN
3 04 56 28.1 AO 13.0 01.0 D 16.4

2 04 47 35 50N 007W 3 4.5-5.0 402 N. ATLANTIC OCEAN
3 04 57 48.0 AO 04.0 00.9 D 16.4

2 05 04 25 11N 61W 3 4.0-4.5 095 WINDWARD ISLANDS
3 05 13 39.3 AO 03.0 01.0 U 15.0

2 05 41 12 04S 117E 2 - 275 JAVA SEA
3 06 00 20.3 AO 30.0 00.8 D 57.8

2 05 43 25 04S 117E - 275 JAVA SEA
3 06 02 33.3 AO 04.0 01.0 U 57.8

2 05 43 56 04S 117E - 275 JAVA SEA
3 06 03 03.7 AO 07.0 00.7 U 57.8

2 05 56 03 28S 025W 3 5.5-6.0 409 SOUTH ATLANTIC OCEAN
3 06 10 06.5 AO 09.0 00.9 U 30.3

2 06 01 35 19S 068W 2 4.5-5.0 124 CHILE- BOLIVIA BORDER REGION
3 06 13 06.0 AO 04.0 00.8 U 19.2

5 06 14 03 * AO EMERGENT -

2 06 41 05 25S 75W 3 4.0-4.5 121 OFF COAST OF N. CHILE
3 06 47 38.8 F2 03.0 00.9 U 12.8

2 07 06 02 12N 63W 3 4.0-4.5 095 WINDWARD ISLANDS
3 07 14 55.0 AO 03.0 00.9 U 14.5

2 07 46 27 12N 063W 3 4.0-4.5 095 WINDWARD ISLANDS
3 07 55 20.0 AO 03.0 00.9 U 14.5

5 08 08 39 * AO POSSIBLE -

2 08 05 17 12N 063W 3 4.0-4.5 095 WINDWARD ISLANDS
3 08 14 10.6 AO 03.0 00.9 U 14.5

2 08 39 24 12N 063W 3 4.0-4.5 095 WINDWARD ISLANDS
3 08 47 17.6 AO 03.0 00.9 U 14.5

5 10 19 47.5 AO WEAK -

2 11 10 53 08N 057W 3 4.0-4.5 402 N. ATLANTIC OCEAN
3 11 21 00.5 AO 02.0 00.8 U 16.4

2 12 34 06 40N 142E 3 4.0-4.5 228 NEAR EAST COAST OF HONSHU

TAPES FOR THE ABOVE EVENTS IN THE FOLLOWING TIMES AND MODES ARE AVAILABLE FROM THE LAO LIBRARY. FAST MODE TAPES WILL BE SAVED FOR TWO WEEKS.

2 AUGUST 1966
1614 GMT TO 1734 GMT SLOW MODE TAPES
1741 GMT TO 2400 GMT SLOW MODE TAPES

3 AUGUST 1966
0000 GMT TO 0048 GMT SLOW MODE TAPES
0050 GMT TO 0145 GMT SLOW MODE TAPES
0158 GMT TO 0430 GMT FAST MODE TAPES
0430 GMT TO 1058 GMT FAST MODE TAPES
1108 GMT TO 1204 GMT FAST MODE TAPES
1216 GMT TO 1232 GMT SLOW MODE TAPES
1234 GMT TO 1514 GMT SLOW MODE TAPES
1520 GMT TO 1551 GMT SLOW MODE TAPES
1601 GMT TO 1617 GMT SLOW MODE TAPES
1645 GMT TO 2051 GMT SLOW MODE TAPES
2107 GMT TO 2347 GMT SLOW MODE TAPES

4 AUGUST 1966
0006 GMT TO 0145 GMT SLOW MODE TAPES
0150 GMT TO 0729 GMT FAST MODE TAPES
0736 GMT TO 1200 GMT FAST MODE TAPES
1202 GMT TO 1400 GMT SLOW MODE TAPES

R NEEDHAM / B MARTIN
BILLINGS LASA
1150 MST MONDAY 8 AUGUST 1966

SEISMO BULLETIN 215 LAO (16:00 2 AUGUST TO 15:3

1 02 AUGUST 1966

2 15 57 11 35S 101W 3 4.5-5.0 684 EASTER ISLAND CORDELLERA
3 16 09 29.2 AO 07.0 01.2 C 21.3

5 16 24 23.1 AO POOR -

2 16 42 22 37N 139W 3 4.0-4.5 611 NORTH PACIFIC OCEAN
3 16 47 35.2 AO 03.0 00.6 C 11.9

5 17 17 46.6 AO POOR -

5 18 28 13 * AO NEAR REGIONAL SE

5 18 42 07.6 AO WEAK -

2 18 49 15 42N 142E 2 4.5-5.0 224 HOKKAIDO, JAPAN REGION
3 19 00 41.9 AO 08.0 01.0 C 18.8
4 19 00 59.0 AO AP 19 00 41.9

5 19 37 38.8 AO POOR -

5 20 56 19.4 AO NEAR REGIONAL SW

5 21 38 25 * AO POSSIBLE -

5 21 58 15.0 AO NEAR REGIONAL SW

5 22 05 33.0 AO NEAR REGIONAL SE

5 22 13 56.1 AO POOR -

1 03 AUGUST 1966

2 02 23 01 61N 129W 3 3.5-4.0 018 SOUTHERN YUKON TERRITORY
3 02 27 31.4 AO 04.0 01.1 C 10.2

4 03 32 21.4 E4 PKP -

2 04 26 16 48N 156E 2 4.5-5.0 221 KURILE ISLANDS
3 04 36 33.3 AO 06.0 00.9 C 16.7
4 04 36 48.0 AO AP 04 36 33.3

5 05 22 30 * AO POSSIBLE -

5 08 14 00 * AO EMERGENT SW

2 10 19 03 41N 148E 3 4.0-4.5 225 OFF E. COAST OF HOKKAIDO
3 10 30 21.8 F3 02.0 00.5 C 18.6

2 11 00 42 39N 117E 2 4.0-4.5 658 N.E. CHINA
3 11 13 25.4 AO 03.0 01.1 C 22.9
4 11 13 39.7 AO AP 11 13 25.4

2 12 20 17.0 15N 68W 2 4.0-4.5 094 CARIBBEAN SEA
3 12 28 27.3 AO 04.0 00.8 C 13.9

5 14 08 44.8 AO POOR -

5 15 12 18 * AO EMERGENT -

SEISMO BULLRTIN LAO 214 (15:35 1 AUGUST TO 15:50 2 AUGUST) FORMAT 2

1 01 AUGUST 1966

2 15 49 56 51N 178E 2 5.0-5.5 006 RAT ISLANDS
3 15 58 41.1 F3 14.00 00.7 C 14.5

2 15 51 07 51N 179E 3 4,5-5.0 006 RAT ISLANDS
3 15 59 38.8 A0 15.0 00.6 C 14.2

5 17 33 36.7 F3 POOR -

5 18 31 56.3 A0 POSSIBLE -

5 19 23 57.7 A0 POOR -

4 19 27 14.8 A0 (E) 19 23 57.7

2 19 19 53 79N 015W 3 4.0-4.5 640 GREENLAND SEA
3 19 28 03.1 F4 04.0 00.8 C 13.9

5 19 39 55.1 A0 EMERGENT -

2 19 44 17 30S 177E 3 5.0-5.5 176 NORTH OF NEW ZEALAND
3 19 58 16.3 A0 04.0 00.8 C 25.5

F2 20 24 11 16S 176W 2 4.5-5.0 173 TONGA ISLANDS
3 20 36 59.7 A0 04.0 00.9 C 23.2

2 20 31 52 44N 147E 2 5.5-6.0 221 KURILE ISLANDS
3 20 42 58.3 F2 40.0 01.0 C 18.1
4 20 43 12.3 F2 AP 20 42 58.3
4 20 43 33.5 F2 PCP 20 42 58.3
4 20 44 18.8 F2 (E) 20 42 58.3
4 20 49 16.0 F2 (E) 20 42 58.3

5 21 00 49.1 A0 POOR -

2 21 03 21 34N 71E 2 4.5-5.0 710 WEST PAKISTAN
3 21 17 01.7 A0 04.0 01.0 C 26.7
4 21 21 21.8 A0 PP 21 17 01.7
4 21 33 07.6 A0 PKKP 21 17 01.7
4 22 08 30 * A0 (E) 21 17 01.7

5 22 21 45.4 A0 NEAR REGIONAL SE

5 23 54 38.4 A0 WEAK -

1 02 AUGUST 1966

2 01 06 47 16S 64W 3 4.0-4.5 120 BOLIVIA
3 01 18 12.4 F2 04.0 01.2 C 18.8

2 02 34 20.5 51N 159E 2 5.0-5.5 219 OFF EAST COAST OF KAMCHATKA
3 02 44 13.9 A0 17.0 00.9 C 15.8

5 05 59 55.4 A0 WEAK -

2 12 55 06 52N 153E 4.5-5.0 220 N.W. OF KURILE ISLANDS
3 13 05 14.1 A0 03.0 00.8 C 16.3

SEISMO BULLETIN LAO 213 (15:42 31 JULY TO 15:23
BULLETIN FORMAT 2

```
1  31  JUNE  1966
2  19 11 03  14N  90W  2  4.5-5.0  070  GUATAMALA
3  19 17 55.8  AO  09.0  01.0  C  13.0
4  19 18 13.2  AO  AP  19 17 55.8
4  19 20 13.8  AO  PCP  19 17 55.8
4  19 24 10.7  AO  PCS  19 17 55.8

1  31  JUNE  1966
2  19 20 34  67N  104W  3  3.5-4.0  679  N.W. TERRITORIES, CANADA
3  19 25 04.2  AO  03.0  00.7  C  10.2

1  31  JUNE  1966
2  20 18 34  61N  144W  2  4.5-5.0  002  SOUTHERN ALASKA
3  20 24 07.0  AO  04.0  00.6  C  11.9

1  31  JUNE  1966
2  20 52 30  04S  076W  3  4.5-5.0  111  NORTHERN PERU
3  21 02 14.9  AO  02.0  00.6  C  15.6

1  31  JUNE  1966
5  21 35 30.0  AO  POSSIBLE

1  31  JUNE  1966
2  22 18 42  14S  075W  2  4.5-5.0  116  PERU
3  22 29 23.7  AO  04.0  00.9  C  17.5

1  31  JUNE  1966
5  23 21 06.0  AO  WEAK  NW

1  31  JUNE  1966
2  23 27 00  56N  177E  2  4.5-5.0  003  BEARING SEA
3  23 35 25.6  AO  05.0  00.8  C  14.2
4  23 35 32.3  AO  AP  23 35 52.6

1  1  AUGUST  1966
5  01 16 07 *  AO  EMERGENT

1  01  AUGUST  1966
2  03 23 53  02N  167E  2  5.5-6.0  618  GILBERT ISLAND REGION
3  03 36 39.1  AO  35.0  00.9  C  22.9
4  03 41 08.2  AO  PP  03 36 39.1

1  01  AUGUST  1966
5  04 02 43.0  AO  NEAR REGIONAL  NW

1  01  AUGUST  1966
5  04 03 43.7 AO  NEAR REGIONAL  NW

1  01  AUGUST  1966
2  06 25 55  52N  178E  2  5.0-5.5  006  RAT ISLAND
3  06 34 33.0  AO  13.0  00.7  C  14.2
4  06 34 42.0  AO  AP  06 34 33.0

1  01  AUGUST  1966
2  06 21 50  11N  129E  2  5.5-6.0  260  EAST OF PHILIPPINE ISLANDS
3  06 36 02.1  AO  15.0  01.0  C  27.0

1  01  AOGUST  1966
2  07 42 17  16N  094W  2  4.5-5.0  061  CHIAPAS, MEXICO
3  07 48 41.9  AO  06.0  00.8  D  12.7
4  07 48 57.9  AO  AP  07 48 41.9
4  07 51 18.5  AO  PCP  07 48 41.9
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2 03 23 53 02N 167E 2 5.5-6.0 618 GILBERT
3 03 36 39.1 AO 35.0 00.9 C 22.9
4 03 41 08.2 AO PP 03 36 39.1

1 01 AUGUST 1966
5 04 03 43.0 AO NEAR REGIONAL NW

1 01 AUGUST 1966
5 04 03 43.7 AO NEAR REGIONAL NW

1 01 AUGUST 1966
2 06 25 55 52N 178E 2 5.0-5.5 005 RAT ISLAND
3 06 34 33.0 AO 13.0 00.7 C 14.2
4 06 34 42.0 AO AP 06 34 33.0

1 01 AUGUST 1966
2 06 21 50 11N 129E 2 5.5-6.0 260 EAST OF PHILIPPINE ISLANDS
3 06 36 02.1 AO 15.0 01.0 C 27.0

1 01 AUGUST 1966
2 07 42 17 16N 094W 2 4.5-5.0 061 CHIAPAS, MEXICO
3 07 48 41.9 AO 06.0 00.8 D 12.7
4 07 48 57.9 AO AP 07 48 41.9
4 07 51 18.5 AO PCP 07 48 41.9

1 01 AUGUST 1966
5 09 26 21.4 AO WEAK

1 01 AUGUST 1966
5 09 29 46.6 AO EMERGENT

1 01 AUGUST 1966
2 09 48 11 00N 079W 2 5.0-5.5 107 EQUADOR
3 09 57 18.0 AO 19.0 01.0 C 14.8

1 01 AUGUST 1966
2 09 50 16 20S 069W 2 5.0-5.5 124 CHILE-BOLIVIA BORDER REGION
3 10 01 50.1 AO 21.0 00.9 C 19.9
4 10 02 20.2 AO AP 10 01 50.1

1 01 AUGUST 1966
2 11 49 53 21N 147E 2 5.0-5.5 215 MARIANA ISLAND REGION
3 12 02 31.0 AO 13.0 01.0 C 22.7

1 01 AUGUST 1966
5 12 03 43 * AO WEAK

1 01 AUGUST 1966
5 14 06 36.5 AO EMERGENT

1 01 AUGUST 1966
2 14 07 57 23S 061W 3 4.0-4.5 129 SALTA PROV.,ARGENTINA
3 14 20 06 * AO 03.0 00.9 C 20.9

R NEEDHAM / B MARTIN
BILLINGS LASA
1000 MST WEDNESDAY 3 AUGUST 1966