

COLUMBIA R.

NEHALEM R.

TILLAMOOK BAY

SILETZ R.

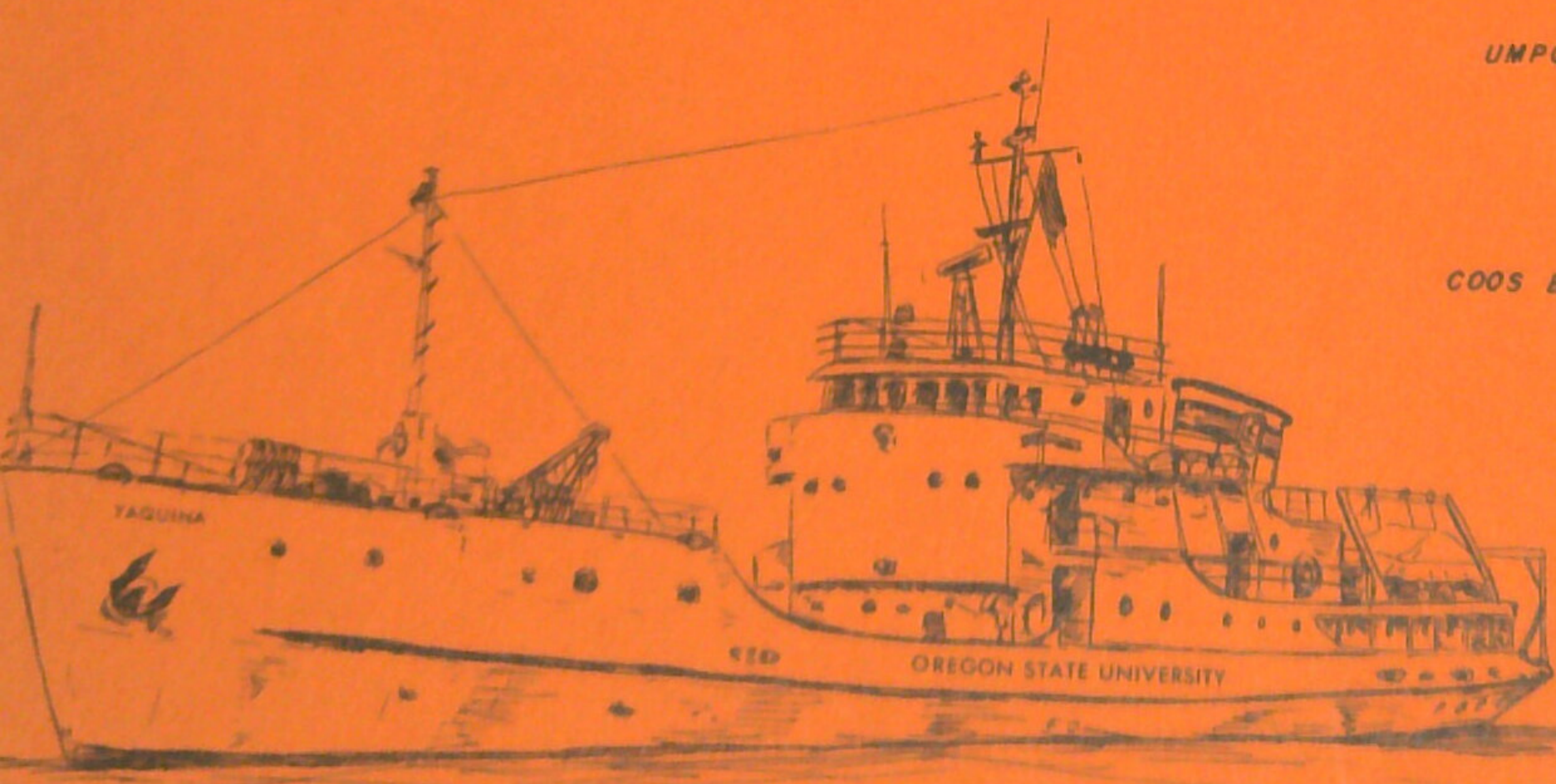
YAQUINA R.

ALSEA R.

SIUSLAW R.

UMPQUA R.

COOS BAY



**OREGON STATE UNIVERSITY
SEISMOLOGICAL BULLETIN NO. 7
January 1 to March 31, 1965**

by

**A. J. Skorpen, J. N. Gallagher and
Peter Dehlinger**

Air Force Cambridge Research Laboratories
Contract AF 19(628)-2778

Office of Naval Research
Contract Nonr 1286(10) Project NR 083-102

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Data Report No. 21

Reference 66-5

April, 1966

DEPARTMENT OF OCEANOGRAPHY
Geophysics Research Group
OREGON STATE UNIVERSITY
Corvallis, Oregon

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Wayne V. Burt
Chairman

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Oregon State University operates a World-Wide Standard Seismograph Station at Corvallis (COR) and a seismic station at Klamath Falls (KFO), Oregon. Data recorded at the Portland (PTD), Oregon, seismic station, operated by the Oregon Museum of Science and Industry, are included in this Seismological Bulletin.

The Corvallis station includes three short-period Benioff seismographs ($T_0 = 1$ sec, $T_g = 0.75$ sec), three long-period Sprengnether seismographs ($T_0 = 30$ sec, $T_g = 100$ sec), and a small short-period vertical Benioff seismograph ($T_0 = 1.0$ sec, $T_g = 0.2$ sec) to provide visual recording on the OSU campus.

The Klamath Falls station consists of a small short-period vertical Benioff seismograph ($T_0 = 1$ sec, $T_g = 0.2$ sec), with visual recording on the campus of the Oregon Technical Institute.

The Portland station consists of a short-period vertical Wilson-Lamison seismograph ($T_0 = 1$ sec, $T_g = 1.5$ sec) with visual recording at the Museum.

Station Constants:

	Latitude	Longitude	Elevation
Corvallis	44°35.1'N	123°18.2'W	123 meters
Klamath Falls	42°16.0'N	121°44.7'W	1321 meters
Portland	45°30.5'N	122°43.0'W	208 meters

Abbreviations:

i - impetus (sudden beginning of motion).

e - emersio (gradual beginning of motion).

(Z, N, E) (following phase of arrival) - recorded on vertical north-south, east-west component seismometers, respectively.

c, r (following phase of arrival) - first motion arrived as a compression or rarefaction, respectively.

u, d, N, S, E, W (following phase of arrival) - first motion is up, down, north, south, east, or west, respectively.

Mag - magnitude.

h - depth of focus.

Δ - epicentral distance from Corvallis.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
1 Jan.	COR	eP (Z, N, E)u, N, W eS? (E) e	01:57:17.1 01:57:27.5 01:57:32.6	1 1.2 1.2	Local? Δ about 75 km.
5 Jan.	COR	eLR (E)	18:44:44	16	Tonga Islands. USCGS (card 3-65A): 20.3°S, 174.1°W; 18:05:58.6; h about 33 km; Mag 6.0. Δ about 8890 km.
6 Jan.	COR	ePn (Z)u e (E)E e (Z)u e S _n (E) e S _n (Z)	02:03:17.1 02:03:22.4 02:03:45.4 02:05:21.4 02:05:36	1.6 2.0 1.6 1.6 4	Large S amplitude Eastern Idaho. USCGS (card 2-56): 44.9°N, 112.7°W; 02:01:22.2; h about 7 km; Mag 5.1. Δ about 860 km.
6 Jan.	COR	e P? (Z)d e (E)E e S? (E)E	23:52:45.4 23:52:48.5 23:53:01	1 0.4 1	Local?
7 Jan.	COR	e LR (Z)d	16:19:26.5	8	Oaxaca, Mexico. USCGS (card 3-65A): 16.2°N, 97.2°W; 15:56:32.5; h about 43 km; Mag 5.5. Δ about 4000 km.
8 Jan.	COR	eLR (Z, N, E)d, N, W	21:35:55	20	Northern Easter Island Cordillera. USCGS (card 7-65): 13.2°S, 112.0°W; 21:08:06.0; h about 33 km; Mag 4.9. Δ about 6700 km.
9 Jan.	COR	e LR (Z)	14:17:07		Philippine Islands region. USCGS (card 5-65): 11.9°N, 126.2°E; 13:32:46.4; h about 5 km; Mag 6.1. Δ about 10,800 km.
9 Jan.	COR	e P? (Z, N, E)u, S, E e S? (E)	23:52:56.3 23:53:09.7	0.4 1	Local. ?

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
10 Jan.	COR	e P (Z, N, E)d, S, W e P (Z, E)u, E e S (N, E) e S (Z) e SSS? (Z, E) e LR (Z, E)	13:49:10.2 13:49:07.1 13:59:28.6 13:59:36.7 14:09:00 14:15:07	1.2 7 10 16 22 22	New Hebrides Islands. USCGS (card 3-65A): 13.5°S, 166.6°E; 13:36:30.7; h about 32 km; Mag 6.5. Δ about 9400 km.
12 Jan.	COR	e P? (Z)d e S? (E)W	01:41:36.2 01:41:47.7	0.8 0.8	Local. ?
14 Jan.	COR	e P (Z)u e S (N, E)N, E e (Z)	08:35:40.8 08:44:10.2 09:00:26	2 8 20	Near coast of northern Peru. USCGS (card 3-65A): 5.5°S, 81.3°W; 08:25:17.5; h about 32 km; Mag 5.3. Δ about 6900 km.
15 Jan.	COR	e P? (Z, N) u, N e S? (N)	00:57:58 00:58:07	0.4 1.6	Local. ?
15 Jan.	COR	i P (Z, N)u, N e (Z, N)	06:12:32.8 06:12:56	1 1	Eastern Kazakh, USSR. USCGS (card 6-65): 49.9°N, 790°E; 05:59:58.5; h about 0 km; Mag 6.0. Δ about 9400 km.
15 Jan.	COR	e P? (Z, N)u, N e S?	22:55:03.6 22:55:08.2	0.3 1	Local. ?
16 Jan.	COR	e P? (Z)u e S? (N)N	23:35:40.8 23:35:46	1 1.2	Local?
17 Jan.	COR	e P (Z, N)d, S e PP (N) e PPP (Z, N) e LR (Z, N, E)	02:18:24.5 02:18:44 02:19:00.5 02:24:16.3	2 2.4 2 14	Kodiak Island region. USCGS (card 4-65): 58.3°N, 151.8°W; 02:13:28.6; h about 33 km; Mag 5.3. Δ about 2400 km.
Jan. 17	COR	e P (Z, N)d, S e P (N) (N)	10:55:04.6 10:55:10.2 10:55:22.3	1.8 2	South of Fiji Islands. USCGS (card 5-65): 24.5°S, 178.4°E; 10:43:17.5; h about 568 km; Mag 5.5. Δ about 9600 km.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
17 Jan.	COR	e PKP (Z) e (Z)	21:16:08.5 21:16:25.3	2 2	Java. USCGS (card 5-65): 6.8°S, 109.1°E; 20:57:41.3; h about 242 km; Mag 6.5. Δ about 13,400 km.
21 Jan.	COR	e P? (Z, N)d, S e S? (N) e (Z)	00:53:23.5 00:53:30.6 00:53:33.7	0.8 1.2 2	Local. ?
24 Jan.	COR	e P? (E)W e S? (E)W	00:10:42.1 00:10:51.1	0.8 1.2	Local. ?
24 Jan.	COR	e P (Z)u e (E)E	00:25:30.6 00:25:41.8	6 11	Ceram Sea. USCGS (card 6-65): 2.4°S, 126.0°E; 00:11:12.1; h about 6 km; Mag 6.6. Δ about 11,900 km.
28 Jan.	COR	e LR (Z, N)d, N	16:40:47.9	18	Northern Easter Island Cordillera. USCGS (card 7-65): 4.0°S, 104.2°W; 16:15:35.0; h about 33 km; Mag 5.0. Δ about 6100 km.
29 Jan.	COR	e LR (N)N	00:24:04	16	Gulf of California. USCGS (card 10-65): 23.9°N, 108.7°W; 00:11:22; h about 33 km; Mag 5.4. Δ about 2800? km.
1 Feb.	COR	e P (Z, N, E)d, N, E e P (Z)d e P (N)	05:38:27.5 05:38:34.6 05:38:46.5	1 1.3 1.5	Fiji Islands region. USCGS (card 8-65): 18.6°S, 178.1°W; 05:27:04.5; h about 472 km; Mag 5.6. Δ about 8900 km.
3 Feb.	COR	e P? (N, E)W e S? (Z, E)	00:44:24.2 00:44:33.6	0.8 1.6	Local. ?
3 Feb.	COR	e (Z, N)u, N e (Z, N, E)	04:52:27.5 04:52:33.1	1.5 1.9	Local. (?)

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
4 Feb.	COR	i P? (Z, N, E)d, N, W e S? (Z, N, E)	00:34:44.5 00:34:53.4	0.2 1.4	Local. ?
4 Feb.	COR	e P (Z, N, E)d, N, W e P (Z) e P (Z, N, E)	05:08:44.3 05:08:53 05:09:12.6	1.6 4 4	Rat Islands, Aleutian Islands. USCGS (card 9-65): 51.3°N, 178.6°E; 05:01:21.8; h about 40 km; Mag 7.5. Δ about 4200 km.
	PTD	e P (Z)	05:08:52.6	3	
4 Feb.	COR	e P (Z)u e P (N, E)S, E e S (Z, N, E)	08:47:00 08:47:02.5 08:52:53	1 1 5	Rat Islands, Aleutian Islands. USCGS (card 9-65): 51.3°N, 179.5°E; 08:40:40.9; h about 40 km; Mag 6.4. Δ about 4200 km.
4 Feb.	COR	e P (Z)u e P (E)E e S (Z, E)	12:13:58 12:14:01.5 12:20:20	1 1 3	Rat Islands, Aleutian Islands. USCGS (card 9-65): 52.6°N, 172.1°E; 12:06:04.3; h about 25 km; Mag 5.8. Δ about 4600 km.
	PTD	e P (Z)	12:13:54	3	
	KFO	e P (Z)	12:14:16	1	
4 Feb.	COR	e P (Z)u e P (N, E)S, E e S (E)W e LQ (N)	14:26:24.1 14:26:26.6 14:32:49.0 14:36:00	1 1 4 20	Rat Islands, Aleutian Islands. USCGS (card 9-65): 53.0°N, 171.0°E; 14:18:27.9; h about 30 km; Mag 5.7. Δ about 4700 km.
	KFO	e P (Z)	14:26:42	0.8	
4 Feb.	COR	e P (Z)u e P (E)W e S (E) e LQ (N)	15:59:22.4 15:59:23.5 16:05:46 16:09:20	1 1 4 12	Rat Islands, Aleutian Islands. USCGS (card 9-65): 53.1°N, 170.8°E; 15:51:25.5; h about 40 km; Mag 5.7. Δ about 4800 km.
5 Feb.	COR	e P (Z)d	09:39:51.1	1.4	Rat Islands, Aleutian Islands. USCGS (card 9-65): 52.3°N, 174.3°E; 09:32:09.3; h about 41 km; Mag 5.9. Δ about 4500 km.
6 Feb.	COR	e P (E) e P (N)S	01:46:12 01:46:16	 5	South of Alaska. USCGS (card 11-65): 53.2°N, 161.9°W; 01:40:33.2; h about 33 km; Mag 6.4. Δ about 3000 km.
	PTD	e P? (Z)	01:46:11	3	
	KFO	e P (Z)	01:46:31	1.3	

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
6 Feb.	COR	e P (Z)d	16:56:05.1	1.5	South of Alaska. USCGS (card 13-65): 53.3°N, 161.8°W; 16:50:29; h about 33 km; Mag 6.1. Δ about 3000 km.
		e P (E)W	16:56:06.6	2	
		e P (Z)d	16:56:05.1	4	
		e S (N)d	17:00:49	12	
	KFO	e P (Z)	16:56:23	1.1	
7 Feb.	COR	e P (Z, N, E)d, N, W	02:24:58	1	Rat Islands, Aleutian Islands. USCGS (card 9-65): 51.4°N, 173.4°E; 02:17:09.2; h about 40 km; Mag 6.0. Δ about 4600 km.
		e S (N)	02:31:17	8	
		e LQ (N)	02:34:30	24	
7 Feb.	COR	e P _n (Z)u	09:29:31.2	.5	Off coast of Oregon. USCGS (card 23-65): 44.1°N, 128.6°W; 09:28:31; h about 10 km; Mag 4.2. Δ about 430 km.
7 Feb.	COR	e P (Z)	09:33:11.2	2	Rat Islands, Aleutian Islands. USCGS (card 9-65): 51.4°N, 179.1°E; 09:25:51.1; h about 30 km; Mag 5.3. Δ about 4200 km.
		e S (N, E)N, E	09:39:08	4	
		e LR (Z)	09:43:51	18	
7 Feb.	COR	e P (Z, N, E)u, N, W	12:29:16.3	0.8	Rat Islands, Aleutian Islands. USCGS (card 9-65): 53.0°N, 171.7°E; 12:21:21.1; h about 25 km; Mag 5.3. Δ about 4600 km.
7 Feb.	COR	e P (Z)d	16:11:12.2	1	Rat Islands, Aleutian Islands. USCGS (card 12-65): 51.3°N, 179.0°E; 16:03:52.3; h about 40 km; Mag 5.1. Δ about 4200 km.
8 Feb.	COR	e (N, E)N, E	15:01:55	16	Fiji Islands region. USCGS (card 26-65): 17.5°S, 179.0° W; 14:17:37; h about 482 km; Mag 4.9. Δ about 9100 km.
		e (Z, N)u	15:05:22.4	12	
		e (Z)	15:12:32.8	8	
9 Feb.	COR	e P (Z)d	17:45:07.6	1.0	Rat Islands, Aleutian Islands. USCGS (card 9-65): 52.8°N, 171.9°E; 17:37:15.9; h about 41 km; Mag 5.7. Δ about 4600 km.
		e P (E) E	17:45:08.2	1.0	

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
11 Feb.	COR	e P (Z, N, E)d, N, W e S (Z, N, E)	01:52:20.6 01:52:30.6	0.8 1.0	Local. 00:52:08.7. Δ about 70 km.
11 Feb.	COR	e P (Z)u e (N)N e (N) e S? (Z)	16:31:38.2 16:31:40.3 16:31:47.4 16:31:57.8	0.8 0.8 0.8 2.0	Local. Δ about 160? km.
11 Feb.	COR	e P (Z, E)u, E e (Z)	16:57:58.6 16:58:02.5	0.4 0.6	Local.
12 Feb.	COR	e P (Z, N, E)u, N, W e (Z) e (Z)	00:50:31.6 00:50:39.8 00:51:05	1 1 2	Rat Islands, Aleutian Islands. USCGS (card 12-65): 51.5°N, 175.8°E; 00:43:17.1; h about 33 km; Mag 5.4. Δ about 4100 km.
12 Feb.	COR	e P (Z)d e (Z)d e S (N, E) e (Z)	01:03:00.1 01:04:00.2 01:09:18.4 01:16:04	2 8 12 12	Rat Islands, Aleutian Islands. USCGS (card 14-65): 52.2°N, 172.8°E; 00:55:06.2; h about 25 km; Mag 5.5. Δ about 4600 km.
12 Feb.	COR	e P _n (Z, N, E)d, S, E e S _n (Z, N, E) e (E) e (Z, E)	10:51:27.0 10:52:14.3 10:53:03 10:53:58.5	1.4 1 2 10	Near coast of northern California. USCGS (card 13-65): 40.3°N, 124.9°W; 10:50:19.7; h about 33 km;
	KFO	e P (Z)	10:51:05	0.8	Mag 5.3. Δ about 480 km.
12 Feb.	COR	e P _n (E)E e S _n (E)	20:51:52 20:52:38.8	0.8 1.4	Near coast of northern California. USCGS (card 13-65): 40.3°N, 124.7°W; 20:50:46; h about 33 km; Mag 4.9. Δ about 460 km.
15 Feb.	COR	e P (Z, E)u, E e S (N) e (Z)	01:32:27 01:38:24.7 01:43:30	1.6 5 16	Rat Islands, Aleutian Islands. USCGS (card 12-65): 51.4°N, 179.4°E; 01:25:08.8; h about 42 km; Mag 5.8. Δ about 4200 km.
16 Feb.	COR	e P (Z)u e P (N)S e (Z)	11:04:06 11:04:08 11:13:41.9	1 1 8	Gulf of California. USCGS (card 16-65): 26.4°N, 110.0°W; 10:59:17.5; h about 33 km; Mag 5.2. Δ about 2400 km.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
17 Feb.	COR	e (Z, N)d, N e (E)	00:43:54.5 00:44:00.8	1.6 1.8	Local. ?
17 Feb.	COR	i P? (Z, N, E)d, S, E e S? (N, E)	01:29:08.2 01:29:16.8	0.5	Local. ?
17 Feb.	COR	e P (Z, N, E)u, s, W e S (N, E) e (Z) e SS (N) e SSS (E) e (Z)	10:26:23.5 10:32:32 10:32:42 10:35:16 10:35:56 10:36:00	1.0 20 24 20 30 30	Rat Islands, Aleutian Islands. US CGS (card 12-65): 51.8°N, 176.6°E; 10:18:51.3; h about 44 km; Mag 5.6. Δ about 4400 km.
17 Feb.	COR	e (Z)u e (N, E)N, E e (N, E)	18:50:19.4 18:50:21.2 18:50:33.7	1.8 1 2	Local. ?
18 Feb.	COR	i P _n (Z, N, E)d, N, E e P̄ (N, E) e S _n	22:42:45.9 22:42:53.0 22:43:12.2	1.5 1.5 1.5	Local. 22:42:11.0. Δ about 230 km.
18 Feb.	COR	i P (Z, N, E)d, S, W e P (Z)d i S (N, S) e S (N, E) e LR (Z) e (Z, N) e (Z)	23:20:57.1 23:20:57.1 23:26:50.7 23:26:51.0 23:31:32.6 23:36:00 23:38:02	1.2 2 2.4 6 14 12 10	Rat Islands, Aleutian Islands. USCGS (card 14-65): 51.4°N, 179.1°E; 23:13:36.3; h about 28 km; Mag 5.4. Δ about 4200 km.
19 Feb.	COR	e P (Z, E)u, W e (N, E) e SS (N, E) e (Z)	19:00:06.1 19:00:20.4 19:08:30 19:13:51	1 1.5 1.5 10	Rat Islands, Aleutian Islands. USCGS (card 17-65): 51.1°N, 178.4°E; 18:52:42.1; h about 35 km; Mag 5.6. Δ about 4200 km.
20 Feb.	COR	e (Z)d (E)	00:43:40.8 00:43:46.9	2 1	Local. ?
21 Feb.	COR	e LR (Z)	11:48:34	14	Tonga Islands. USCGS (card 025-65): 15.1°S, 173.2°W; 11:14:15.1; h about 33 km; Mag 5.7. Δ about 8500 km.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
22 Feb.	COR	e PKPPKP (Z)	22:16:20	16	Fiji Islands region. USCGS (card 025-65): 16.8°S, 175.7°E; 21:38:15.5; h about 73 km; Mag 4.9. Δ about 9100 km.
23 Feb.	COR	e (Z)d	01:44:32.1	1	Local. ?
23 Feb.	COR	e P (Z, N, E)d, S, E	22:24:18.9	1.8	Near coast of northern Chile. USCGS (card 20-65): 25.7°S, 70.5°W; 22:11:50.2; h about 80 km; Mag 6.2. Δ about 9300 km.
		e P (Z, N, E)d, S, E	22:24:19.4	6	
		e S (E)	22:34:42.8	10	
		e S (N)	22:34:51	12	
		e LR (Z)	22:53:40.8	16	
			23:04:40.8	10	
	KFO	e P (Z)	22:24:05.5	1.0	
	PTD	e P (Z)	22:24:23	2.6	
23 Feb.	COR	e P? (Z)d	22:58:51.9	1	Local. ?
24 Feb.	COR	e P? (Z)u	00:44:33.7	0.6	Local. ?
		e S? (N, E)S, W	00:44:47.0	0.6	
24 Feb.	COR	e S (Z, N, E)d, N, W	08:23:10.2	6	Near coast of Chiapas, Mexico. USCGS (card 16-65): 14.0°W, 92.2°W; 08:09:17.2; h about 56 km; Mag 5.0. Δ about 4500 km.
		e LR (Z, N)	08:34:51	12	
		e (Z)	08:38:23.4	8	
			08:39:24.4		
24 Feb.	COR	i P? (Z, N, E)d, N, E	19:51:59.2	1	Local. ?
24 Feb.	COR	e P (Z, N)u, N	21:30:42	1.2	Rat Islands, Aleutian Islands. USCGS (card 21-65): 51.4°N, 178.2°E; 21:23:16.5; h about 33 km; Mag 5.2. Δ about 4200 km.
24 Feb.	COR	e P? (Z, E)d, w	23:00:18.4	1	Local. ?
		e S? (N, E)	23:00:25	1.2	

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
25 Feb.	COR	e P (Z, N)u, S e P (Z)u e S (E) e S (N) e SS (E) e LR (Z) e (N) e (N)	05:04:26 05:04:26.5 05:15:10.2 05:15:26.5 05:21:42 05:33:15.3 05:39:42 05:54:10	1.6 10 6 14 10 18 20 6	New Britain region. USCGS (card 024-65): 5.5°S, 152.0°E; 04:51:27.8; h about 35 km; Mag 5.9. Δ about 9900 km.
26 Feb.	COR	e P (Z, E)d, E e (E)	23:45:48 23:45:55	1 1	Northern Columbia. USCGS (card 16-65): 6.9°N, 73.0°W 23:36:12.2; h about 146 km; Mag 5.7. Δ about 6300 km.
27 Feb.	COR	e P (Z, N, E)d, S, E e S (Z, E) (Z)	07:50:42 07:54:20.4 07:56:27.6	6 12 16	Gulf of California. USCGS (card 20-65): 28.5°N, 112.1°W; 07:46:29.1; h about 33 km; Mag 5.3. Δ about 2000 km.
1 Mar.	COR	e P (Z)u	07:33:54	1.6	New Britain region. USCGS (card 024-65): 5.5°S, 152.1°E; 07:20:55.3; h about 35 km; Mag 5.7. Δ about 9900 km.
1 Mar.	COR	i P (Z, N, E)u, S, E e P (Z)u e S (N, E) e (E) e (Z)	21:39:31.6 21:39:32.3 21:45:26.5 21:48:38.8 21:48:45	1.2 3 6 14 10	Mexico-Guatemala border region. USCGS (card 023-65) 15.4°N, 92.5°W; 21:32:11.8; h about 93 km; Mag 5.9. Δ about 4200 km.
2 Mar.	COR	e P (Z, N, E)u, S, W e PcP? (N)	21:47:34.6 21:47:44.3	1.2 1	Bonin Islands region. USCGS (card 20-65): 28.2°N, 139.3°E; 21:36:38.4; h about 495 km; Mag 5.7. Δ about 8300 km.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD	REMARKS
3 Mar.	COR	e P (Z)u e (E) e (Z)u e (N) e (N) e S (E) e (N) e G (N) e LR (Z)	15:27:07.1 15:27:12.2 15:27:12.2 15:27:17.3 15:27:34.6 15:37:55 15:38:03 15:51:18.3 15:55:12.2	1.8 2 6 2 1.8 8 5 42 20	New Britain region. USCGS (card 026-65): 5.5°S, 151.9°E; 15:14:09.7; h about 44 km; Mag 6.0. Δ about 9900 km.
3 Mar.	COR	e P (Z)d e (N)	16:55:22.4 16:55:33	2 1.5	Rat Islands, Aleutian Islands. USCGS (card 17-65): 53.1°N, 171.2°E; 16:47:25.7; h about 23 km; Mag 5.6. Δ about 4600 km.
3 Mar.	COR	e (Z, N, E)d, S, E e (E)	19:15:20.9 19:15:53.8	1.8 1.8	
	KFO	e (Z)	19:18:19.9 19:15:00	2 1.5	
4 Mar.	COR	e P _n (Z, N, E)u, S, E e S _n (E) e (E)	00:27:31.6 00:27:55 00:28:07	1 1.2 1	Local. 00:27:00.8. Δ about 200 km.
4 Mar.	COR	e P? (Z, N, E)u, S, E e S? (N, E)	01:02:48.8 01:02:58	0.6 1	Local. ?
5 Mar.	COR	e P (Z, N, E)u, N, E e (N) e (N, E) e LR (Z)	06:22:22.4 06:22:27 06:22:36.2 06:33:09	2.0 1 2 26	Rat Islands, Aleutian Islands. USCGS (card 21-65): 51.2°N, 179.3°E; 06:15:01.1; h about 25 km; Mag 5.6. Δ about 4200 km.
5 Mar.	COR	e P (Z, N, E)d, S, W e (Z) e S (N, E)	14:44:18.8 14:44:21.9 14:44:25.7	1 2 1.6	Local. 14:44:10.4. Δ about 50 km.
5 Mar.	COR	e P (Z)u e (Z)	23:37:18.8 23:37:25	1.8 2	Rat Islands, Aleutian Islands. USCGS (card 21-65): 53.0°N, 171.1°E; 23:29:23.2; h about 45 km; Mag 5.4. Δ about 4600 km.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
8 Mar.	COR	e P (E)W e P (Z, N)	23:23:54 23:23:55	1.6 1	Chile-Argentine border region. USCGS (card 023-65): 24.6°S, 67.1°W; 23:11:31.7; h about 168 km; Mag 5.4. Δ about 9400 km.
9 Mar.	COR	e LR? (N) e e (Z)	18:42:16 18:50:42 18:51:06	20 12 18	Aegean Sea. USCGS (card 024-65): 39.4°N, 24.0°E; 17:57:53.7; h about 18 km; Mag 5.7. Δ about 10,400 km.
9 Mar.	COR	e P? (Z, N)d, S, e	23:36:23.5 23:36:25.6	0.8 1.0	Local. ?
10 Mar.	COR	e P (N, E)N, W	13:52:29.6	0.3	Local.
10 Mar.	COR	e P _n (Z, N, E)d, S, E e S _n (N, E) e (N)	20:09:46.5 20:10:19.4 20:10:52	0.4 1 1.6	Off coast of Oregon. USCGS (card 034-65): 43.4°N, 125.4°W; 20:09:15; h about 33 km; Mag 4.0. Δ about 200 km.
10 Mar.	COR	e P? (Z, E)u, E e (E)	23:57:46 23:57:49	1.6 2	Local. ?
11 Mar.	COR	e PP (E)E e (Z)	23:43:09.2 23:43:19	0.8 1.2	Kurile Islands. USCGS (card 025-65): 45.3°N, 151.3°E; 23:31:02.7; h about 47 km; Mag 4.8. Δ about 6400 km.
12 Mar.	COR	e P (Z, N, E)u, N, E e (E) e (E) e (E)	21:26:40.5 21:26:47.5 21:27:04 21:27:13.8	0.4 0.8 1.0 1.4	Local.
13 Mar.	COR	e (Z, N, E)u, N, E e (Z) e (E)	06:39:02.5 06:39:14 06:39:25.5	1.6 2 2	New Hebrides Islands. USCGS (Card 030-65): 14.2°S, 166.9°E; 06:08:12.3; h about 51 km; Mag 4.9. Δ about 9700? km.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
14 Mar.	COR	e P (Z, N, E)d, S, W e (N) e (Z)	08:59:09.2 08:59:14.8 08:59:19.4	1.8 1.6 2	Gulf of Campeche. USCGS (card 025-65): 18.8°N, 94.6°W; 08:52:22.2; h about 97 km; Mag 4.8. Δ about 3900 km.
14 Mar.	COR	e P (Z, E)u, W e (Z, N, E)u, S, E e (N)S e (Z)u e PP (Z) e (N) e S (N) e PS (N)	16:06:22 16:06:22 16:06:24.2 16:06:24.5 16:10:19.5 16:10:26 16:17:41.2 16:19:20	1.8 7 1 1 2 10 3 3	Hindu Kush region. USCGS (card 026-65): 36.3°N, 70.7°E; 15:53:06.6; h about 219 km; Mag 6.6. Δ about 10,800 km.
	PTD	e P (Z)	16:06:18	4.8	
15 Mar.	COR	e P (Z, N, E)u, N, E e S? (N) e (Z, E) e (E)	23:56:58 23:57:04 23:57:10 23:57:17	0.4 0.8 1.0 1.2	Local.
16 Mar.	COR	e P? (Z, N)u, S, e (N) e (N) e (Z, N)	15:44:13 15:44:19.5 15:44:44.5 15:45:12	1.8 1 1 1.6	Local. ?
	KFO	e (Z)	15:43:47		
16 Mar.	COR	e P (Z)u e (Z)d e S (N, E) e (N, E) e (Z)	16:56:55.5 16:57:04 17:05:42 17:13:17 17:17:51	2 4 8 16 16	Near east coast of Honshu, Japan. USCGS (card 025-65): 40.8°N, 142.9°E; 16:46:15.5; h about 34 km; Mag 5.6. Δ about 7200 km.
17 Mar.	COR	e P (Z, E)d, E e (E) e SSS (N)	14:35:06 14:36:09 14:44:57	1 2 20	Near Islands, Aleutian Islands. USCGS (card 025-65): 52.8°N, 171.9°E; 14:27:12.4; h about 23 km; Mag 6.0. Δ about 4600 km.
17 Mar.	COR	e P? (Z)u e S? (E)	23:46:16 23:46:29	0.2 1.6	Local. ?

14

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
18 Mar.	COR	e _p P (Z)u e S (N, E)	06:34:49 06:43:46	4 8	Fiji Islands region. USCGS (card 026-65): 19.9°S, 176.1°W; 06:22:02.9; h about 151 km; Mag 5.5. Δ about 8900 km.
19 Mar.	COR	e (E)W	02:22:20	0.6	Local. ?
21 Mar.	COR	e P? (Z, N, E)d, S, E	11:17:54	0.8	Local. ?
21 Mar.	COR	e PP (Z)u e SKS (N, E) e SSS (Z) e LR (Z)	11:27:00 11:33:19 11:45:49 11:57:00	8 10 30 36	Molucca Sea. USCGS (card 030-65): 1.5°S, 126.5°E; 11:08:16.2; h about 33 km; Mag 6.2. Δ about 11700 km.
22 Mar.	COR	e P (Z, N)d, S e P (Z, E)d, W e S (N, E) e LR (Z)	02:56:25 02:56:27 03:06:08 03:18:37	1.0 4 10 20	Tonga Islands. USCGS (card 035-65): 15.3°S, 173.4°W; 02:44:47.5; h about 51 km; Mag 5.9. Δ about 8300 km.
	PTD	e P (Z)	02:56:27.2		
22 Mar.	COR	e P (Z, N, E)	03:17:53	1	Jujuy Province, Argentina. USCGS (card 030-65): 23.8°S, 66.7°W; 03:05:33.3; h about 176 km; Mag 5.5. Δ about 9400 km.
22 Mar.	COR	e P (Z)d e (Z)d e SKS (N) e (Z)	23:09:22 23:09:32 23:19:49 23:40:18	2 5 16 40	Near coast of central Chile. USCGS (card 029-65): 31.9°S, 71.5°W; 22:56:26.5; h about 46 km; Mag 6.0. Δ about 9900 km.
24 Mar.	COR	e P (Z)d e P (N)s e SKS (E) e (N, E)	00:05:43.7 00:05:48.7 00:15:19 00:28:35	2 2 6 20	Tonga Islands. USCGS (card 036-65): 15.2°S, 173.5°W; 23:54:14.7; h about 130 km; Mag 5.7. Δ about 8100 km.
24 Mar.	COR	e P (Z, N, E)u e S (N, E)	05:58:53.3 05:58:54.3	1	Local.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
24 Mar.	COR	e P (Z)u e S (N, E)	08:12:59.5 08:17:02.5	2 5	Kodiak Island region. USCGS (card 031-65): 56.6°N, 152.4°W; 08:08:05.2; h about 30 km; Mag 5.2. Δ about 2500 km.
24 Mar.	COR	e sSS (E)	08:30:02.7	5	New Hebrides Islands. USCGS (card 039-65): 16.3°S, 167.9°E; 07:59:39.0; h about 189 km; Mag 5.6. Δ about 9900 km.
24 Mar.	COR	e P? (Z)u e S? (N) e (E)	23:53:30.4 23:53:38 23:53:40	1.2 1 1	Local. ?
26 Mar.	COR	e PPP (Z, N, E)d, E e S (N, E)	15:36:27 15:40:10.8	1.2 6	Rat Islands, Aleutian Islands. USCGS (card 037-65): 50.8°N, 176.9°E; 15:26:28; h about 29 km; Δ about 4400 km.
26 Mar.	COR	i P _n (Z, N, E)u, N, W i S _n (N, E) e LR (N, E)	18:59:25.3 18:59:59.8 19:02:22.8	1.5 1 1.5	Off coast of Oregon. USCGS (card 033-65): 43.2°N, 126.2°W; 18:58:46.3; h about 33 km; Mag 5.0. Δ about 260 km. O. S. U. origin time 18:58:38.3.
26 Mar.	COR	i P? (Z, N, E)d, N, E i S? (Z, N, E)	19:24:24.8 19:24:31.7	1 1	Local. ?
27 Mar.	COR	e P? (Z, N, E)d, N, E e (N, E)	10:04:41.7 10:04:48	2 2	Local. ?
28 Mar.	COR	i P (Z, N, E)d, S, W e S (N) e sSS (N) e (N)	16:46:09.8 16:56:28.6 17:03:00 17:09:37	2 10 20 18	Near coast of central Chile. USCGS (card 028-65): 32.4°S, 71.2°W; 16:33:14.6; h about 61 km; Mag 6.4. Δ about 10, 100 km.

DATE 1965	STA.	PHASE	TIME (GCT) h, m, s	PERIOD sec	REMARKS
29 Mar.	COR	e P (Z)d	10:58:19.9	1.8	Near east coast of Honshu, Japan. USCGS (card 031-65): 40.8°N, 142.8°E; 10:47:37.6; h about 33 km; Mag 6.1. Δ about 7300 km.
		e S (N, S)	11:07:02.7	6	
		e LQ (N)	11:14:48	10	
		e (E)	11:20:25	12	
	PTD	e P (Z)	10:58:24	3.5	
30 Mar.	COR	e P (Z, N, E)d, N, E	02:34:34.5	1	Rat Islands, Aleutian Islands. USCGS (card 030-65): 50.6°N, 177.9°E; 02:27:07.2; h about 51 km; Mag 6 3/4 - 7 (BRK). Δ about 4400 km.
		e S (N, E)	02:40:44	3	
	PTD	e P (Z)	02:34:32	3	
30 Mar.	COR	e P? (Z, E)u, W	23:29:06.4	1	Local. ?
		e S?	23:29:08.4	1	
30 Mar.	COR	e P? (Z, N, E)d, N, E	23:47:44.4	1	Local. ?
		e S? (Z, N, E)	23:47:56	1	
31 Mar.	COR	e pP (Z)d	10:00:32	2	Greece. USCGS (card 034-65): 38.6°N, 22.4°E; 09:47:30.7; h about 78 km; Mag 6.3. Δ about 10,200 km.
		e pP (Z, E)d, W	10:00:32	12	
		e pPP (Z, E)	10:04:10.8	8	
		e (Z)	10:04:13.9	2	
		e S (Z)	10:10:55.6	12	
		e (Z)	10:13:06	40	
		e SKPPKP? (Z)	10:29:00	24	
		e (Z)	10:32:16	40	

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