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STATION CONSTANTS, INSTRUMENTS, AND ABBREVIATIONS			
Latitude	32° 50' 46.8" North	Elevation	187 meters
Longitude	96° 47' 01.6" West	Bedrock	Austin Chalk, Upper Cretaceous

Instruments:

Three component Benioff seismographs. Short period $T_0=1$ sec. $T_g=0.2$ sec. Long period $T_0=1$ sec. $T_g=15$ sec. One vertical Benioff visual recording seismograph. $T_0=1$ sec. T_g =equivalent to 12 sec.

Abbreviations:

i=Impulsive beginning of the motion.
e=Emergent beginning of the motion.

All times are G.C.T.

Time, I.B.M. Master Clock, Type 35. The clock-correction is accomplished manually from time-signals obtained from Station WWV, Washington, D.C., every 24 hours.

Since this station is comparatively new and the personnel relatively untrained, the following system was used in preparing these data. The USCGS H times and deltas, measured on a large, inaccurate globe, were used in conjunction with Gutenberg time-charts to identify each phase. The identifications were made by Edward L. Hazelwood and are as accurate as this method will permit.

Date	Phase	h	m	s	Remarks
Jan.					
1	iP'	13	23	33	Sawoe Sea
	epP'	12	23	59	USCGS 0=13:04:17 8.5°S, 124°E
	isP'	13	24	13	h=about 100 km.
	ePKS	13	26	57	Mag. about 6.5 Pas.
	epPKS	13	27	27	
	iPPP	13	29	12	
	eSKS	13	30	39	
2	iP	20	26	35	Fox Islands, Aleutian Islands
					USCGS 0=20:17:25 54°N, 165°W
4	eP	11	22	14	Near southwest coast of Costa Rica
	ePP	11	23	00	USCGS 0=11:16:29 9°N, 85°W
6	eP	16	04	15	Southwest of Spitzbergen
					USCGS 0=15:53:59 76°N, 7°E
7	eP	07	02	39	About 500 Miles off Fiji Islands
					USCGS 0=06:48:50
12	iP	23	38	12	Near Wheeler Ridge, California
	eS	23	41	50	Minor property damage.
	eLq	23	43	41	USCGS 0=23:33:46.5 35°N, 119°W
13	eP'	00	31	40	Mag. 5.7 Pas., 6.25 Berk.
					Off coast of South Island, New Zealand
15					USCGS 0=00:13:06 49°S, 165°E
					Mag. 7.25 Pas.
14	eP	03	37	24	Kermadec Islands
					USCGS 0=03:24:03
14	eP	02	30	30	Celebes Sea
	eP'	02	30	41	USCGS 0=02:11:25

<i>Date</i>	<i>Phase</i>	<i>h</i>	<i>m</i>	<i>s</i>	<i>Remarks</i>
15	eP	23	43	36	Tonga Islands USCGS 0=23:30:32 19.5°S, 174°W
16	eP	22	51	38	Off coast of Vancouver Island, B.C. USCGS 0=22:45:27 49°N, 129.5°E
17	eP	20	53	51	Rat Islands, Aleutian Islands USCGS 0=20:43:43 52°N, 178.5°E h=about 150 km.
18	iP	11	06	20	Banda Sea
	ePP	11	08	11	USCGS 0=10:47:07
	ePP	11	09	32	
20	eP	04	21	52	Pacific Ocean, south of Mexico
	ePP	04	22	34	USCGS 0=04:16:25 8.5°N, 103.5°W
	eS	04	26	20	Mag. 6 Pas.
22	eP	11	25	02	Near Unimak Island USCGS 0=11:16:07 54°N, 163°W h=about 60 km.
26	eP	24	22	49	
27	eP	14	24	02	Southern California. Felt Tehachapi.
	eL	14	29	40	USCGS 0=14:19:47 35.25°N, 118.5°W Mag. 5 Pas., Berk.
27	iP	18	19	53	Near coast of Guerrero, Mexico
	ipP	18	20	19	USCGS 0=18:16:07
	eS	18	23	02	h=about 60 km.
	iPcP	18	24	47	
	eScP	18	28	04	
	ePcS	18	28	13	
28	iP	22	18	43	Near coast of Guerrero, Mexico
	epP	22	18	47	USCGS 0=22:14:54
	eS	22	21	52	h=about 60 km.
	ePcP	22	23	28	
	eScP	22	26	51	
Feb.					
1	eP	01	20	38	Volcano Islands
	ePP	01	24	38	USCGS 0=01:06:51 24.5°N, 142.5°E
	eSkS	01	31	07	Mag. 7.25 Pas.
	eSkkS	01	31	32	
	eS	01	32	00	
	eLq	01	46	38	
1	eP	03	40	20	
1	eP	04	27	43	Lower California USCGS 0=04:23:54 32.25°N, 115.25°W Mag. 5.25 Pas.
	eLr	04	31	15	
1	iP	04	35	47	Lower California
	eS	04	38	29	USCGS 0=04:31:59.5 32.25°N, 115.25°W Mag. 5.75-6 Pas.
1	iP	05	13	54	
1	eP	13	09	06	Lower California
	eS	13	12	24	USCGS 0=13:05:27.5 32.25°N, 115.25°W
	eLr	13	13	48	
1	eP	15	55	55	Greenland aftershock USCGS 0=15:46:00
2	iP	17	55	37	Off northeast coast of Greenland USCGS 0=17:45:45 83°N, 7°E
3	iP	18	36	07	Kurile Islands USCGS 0=18:23:53 45.5°N, 148.5°E h=about 100 km.
5	ePP	09	38	53	Off coast of New Britain
	eL	09	54	02	USCGS 0=09:19:42 4.5°S, 153°E Mag. 6.75 - 7 Pas., 6.5 Berk.

<i>Date</i>	<i>Phase</i>	<i>h</i>	<i>m</i>	<i>s</i>	<i>Remarks</i>
5	iP	15	21	35	Chiapas, Mexico
	ipP	15	21	49	Extensive property damage
	iS	15	24	21	USCGS 0=15:17:59 17.5°N, 92.5°W h=about 100 km. Mag. 6.25 Pas.
7	eP	00	19	49	
7	ePP	06	33	30	New Hebrides Islands
	iS	06	40	51	USCGS 0=06:15:21 15°S, 167.5°E h=about 100 km. Mag. about 6 Pas., 6.5 - 6.75 Berk.
7	eP	09	52	48	
7	eP	15	21	08	
8	iP	00	39	12	Central Chile, Argentina border region
	eS	00	47	54	USCGS 0=00:28:20
	iP	14	29	14	Northern Chile — Bolivia border
	ipP	14	29	42	Minor damage at Calama, Chile
	iS	14	37	26	USCGS 0=14:19:09 22.5°S, 68°W h=about 150 km.
9	isS	14	38	12	
	eP	23	36	43	North Atlantic Ocean about 400 miles southeast of Azores USCGS 0=23:27:36
10	eL	24	08	35	Near Wheeler Ridge, California USCGS 0=23:58:38 35°N, 119°W Mag. 4.3 Pas.
11	iPP	00	49	01	Ningsia Province, China
	ePPP	00	51	05	USCGS 0=00:30:16 39.5°N, 101°E
	eS	00	56	05	Mag. 7.25 - 7.5 Pas., 7 - 7.25 Berk.
	eSS	01	04	00	
	M	01	24	00	
	iScPcS	00	55	17	
	iPs	00	58	10	
12	iP	10	18	18	Southern Peru USCGS 0=10:08:46 17.5°S, 70°W h=about 150 km.
14	eP	06	49	30	Near coast of northern Peru
	ePcP	06	51	33	USCGS 0=06:41:44 6.5°S, 81°W
	eS	06	55	54	
	eLq-G	06	58	52	
	iP	03	29	01	South of Panama
15	ePcP	03	31	20	USCGS 0=03:22:45 5.5°N, 82.5°W
	eS	03	33	39	Mag. 6.25 - 6.5 Pas.
	eG	03	34	45	
	eLq	03	35	32	
	iP	12	06	59	Near coast of Mexico. Damage at Acapulco.
15	eS	12	10	11	USCGS 0=12:03:06 16.5°N, 100°W
	iLq	12	12	15	h=slightly greater than normal
	eP	15	48	31	Foreshock near coast of northern Peru
	ePcP	15	50	17	USCGS 0=15:40:37 6.5°S, 81°W
	eS	15	54	47	
15	eP	19	58	48	Near coast of northern Peru
	ePcP	20	00	32	USCGS 0=19:50:52 6.5°S, 81°W
17	eP	03	46	17	
	eS	03	50	35	
17	iP	11	48	27	Kurile Islands USCGS 0=11:36:18 46.5°N, 151°E h=about 100 km.
19	iP	00	45	37	Off coast of Nicaragua. Felt at Managua.
	iPP	00	45	52	USCGS 0=00:40:25 11.5°N, 87.5°W
	iS	00	49	28	Mag. 6.75 - 7 Pas.
	eLq	00	52	54	

<i>Date</i>	<i>Phase</i>	<i>h</i>	<i>m</i>	<i>s</i>	<i>Remarks</i>
19	eP	01	14	46	
19	iP	21	39	47	Near coast of Nicaragua.
	iPP	21	40	06	USCGS 0=21:34:41 12.5°N, 87.5°W
	eS	21	43	58	
	eLr	21	44	45	
	eLq	21	47	01	
19	iP	23	39	40	Near coast of Mexico. Felt Uruapan
	eS	23	42	33	USCGS 0=23:36:00 18°N, 101.5°W
	eLq	23	45	24	
20	iP	02	05	55	Aftershock off coast of Nicaragua.
	iPP	02	06	09	USCGS 0=02:00:43 11.5°N, 87.5°W
	iS	02	10	06	
	eLr	02	11	23	
	eLq	02	13	39	
20	eP	04	33	02	Near coast of Nicaragua.
	eS	04	36	47	USCGS 0=04:27:47
20	iP'	18	53	19	Flores Sea.
	isP	18	53	32	USCGS 0=18:35:05 7°S, 124.5°E
	ePP	18	56	04	h=about 600 km.
	ePKS	18	56	55	Mag. 6.5 - 6.75 (Pas.)
	isPKS	18	59	54	
	ipPPP	19	00	48	
	eS	19	03	41	
	eSKP	19	04	20	
20	iP	20	00	18	Windward Islands region
	eS	20	06	00	USCGS 0=19:53:00
					h=about 100 km.
21	iP	01	34	19	Near coast of Nicaragua
	ePcP	01	37	48	USCGS 0=01:29:06
	iS	01	35	06	h=about 60 km.
	eG	01	38	33	
21	iP	16	19	08	Andreanof Islands, Aleutian Islands
	eS	16	27	11	USCGS 0=16:09:11 52°N, 175.5°W
21	eLq	20	27	19	Colorado - Utah border
					USCGS 0=20:20:46 40°N, 109°W
21	iP	23	44	31	Near coast of Nicaragua
	iS	23	48	31	USCGS 0=23:39:25 12.5°N, 87°W
	eG	23	48	41	h=about 60 km.
22	eP'	12	22	08	Sandwich Islands
	ePP	12	24	27	USCGS 0=12:03:23 66.5°S, 26.5°W
	eSKS	12	29	07	
24	eP	22	40	21	
25	iP	11	59	31	North Atlantic Ocean
					USCGS 0=11:50:42 52.5°N, 34°W
25	eP	22	21	26	South of Panama
					USCGS 0=22:15:15 5.5°N, 83°W
26	eP	15	45	06	
26	eP	16	16	53	
27	eP	10	19	42	
27	eP	13	28	28	
Mar.					
3	eP	06	17	54	Central New Guinea
	eP'	06	21	48	USCGS 0=06:02:55 5.5°S, 142.5°E
	ePP	06	23	13	Mag. 7.25 Pas.; 7 - 7.25 Berk.
	eSKS	06	28	36	
	eS	06	30	51	
	ePS	06	32	50	
	eSS	06	38	40	
	eLq	06	50	22	
3	eP	07	56	04	Near east coast of Kamchatka

Date	Phase	h	m	s	Remarks
	ePP	07	58	25	USCGS 0=07:44:36 53°N, 160°E
	eSS	08	09	41	
	eLq	08	13	48	
	eLr	08	16	43	
3	iP	20	54	03	Southern Alaska
	iS	21	00	25	USCGS 0=20:46:07 61.5°N, 146.5°W h=about 60 km.
	eLq	21	03	40	
	eLr	21	06	36	
4	eP	22	41	49	
	iS	22	44	18	
6	iP	00	42	08	Fiji Islands region
	esP	00	45	15	USCGS 0=00:29:27 24°S, 180°W
	iPP	00	46	11	h=about 550 km.
	iSKS	00	51	57	Mag. 6.5 Berk.
	eS	00	52	55	
6	iP	19	29	33	
6	eP	19	38	01	
7	eP	14	58	31	
	eS	15	00	05	
8	iP	18	10	41	Near coast of El Salvador
	iS	18	14	32	USCGS 0=18:05:55 13°N, 89°W h=about 60 km.
8	iP	21	34	02	
8	eP	23	44	36	
9	eP	02	33	01	Atlantic Ocean, northeast of Brazil
	iPP	02	35	31	USCGS 0=02:21:43 1.5°N, 30.5°W
	iS	02	42	12	
	eLq	02	51	02	
	eLr	02	52	59	
9	iP	05	51	05	Off south coast of Kamchatka
	ePP	05	53	45	USCGS 0=05:39:20 50°N, 157°E
	iS	06	00	29	Mag. 6.25 - 6.5 Pas.
	eLq	06	19	33	
	eLr	06	25	33	
11	iP	10	34	35	Guatemala
	ePP	10	35	09	USCGS 0=10:30:10 14.5°N, 90.5°W
	iS	10	38	11	h=about 100 km. Mag. 5.5 - 5.75 Pas.
14	eP	09	05	54	Fiji Islands
	eP	09	06	21	USCGS 0=08:52:36 16°S, 179°W
	eSS	09	22	33	
	eLr	09	36	11	
	eLq	09	42	15	
14	iP	21	49	34	
16	eP	05	38	43	Northern Kurile Islands
	iPcP	05	38	59	USCGS 0=05:27:04
	eS	05	48	21	h=about 60 km.
17	iP	13	04	39	Off coast of Mexico near Acapulco
	iPPP	13	04	39	USCGS 0=13:00:50
	eS	13	07	50	
	iLq	13	09	41	
19	iP	09	58	19	Santa Rosa Mountains, California
	iG	10	00	39	Slight property damage
	iS	10	01	08	USCGS 0=09:54:27 33.3°N, 116.1°W
	iLq	10	03	05	Mag. 6 - 6.25 Pas.; 6.4 Berk.
19	iP	10	25	06	Aftershock, Santa Rosa Mts., California
	eG	10	27	47	USCGS 0=10:21:17 33.3°N, 116.1°W

Date	Phase	h	m	s	Remarks
	eS	10	28	14	Mag. 5 Pas.
	iLrl	10	28	57	
	iLq	10	29	53	
20	eP	04	23	07	
	eS	04	27	57	
20	eP	21	31	11	
21	eP	16	55	25	
21	eP	20	47	53	Off coast of Guatemala
	eS	20	51	20	USCGS 0=20:43:10
21	esP	23	58	17	Northwestern Burma. Felt in East- ern India.
	iP	00	00	49	USCGS 0=23:42:05 24.5°N, 95°E
	ePP	00	02	15	h=about 150 km.
	eSKS	00	07	14	Mag. 7 - 7.25 Pas.
	eSKKS	00	08	22	
	eS	00	10	19	
	eSS	00	18	30	
22	eP	00	00	47	
22	iP	17	14	34	Southern Mexico
	eS	17	16	54	USCGS 0=17:10:50 17°N, 95.5°W
	ePcP	17	19	23	h=about 60 km.
23	eP	04	23	30	
	iS	04	26	17	
23	iP	23	44	09	
26	ipP	04	48	30	Off south coast of Hokkaido, Japan USCGS 0=04:35:25 42°N, 142°E h=about 60 km.
26	iP	09	46	30	Near coast of Ecuador
	ePcP	09	48	27	USCGS 0=09:39:06 2°S, 79.5°W
26	iP	13	56	42	
26	iP	18	43	05	
27	iP	09	30	36	
27	iP	11	46	18	Near west coast of Hokkaido, Japan USCGS 0=11:33:33 44.5°N, 141.5°E
27	iP	18	29	17	Central Peru
	ipP	18	29	50	USCGS 0=18:21:05 8°S, 75.5°W
	esP	18	30	14	h=about 150 km.
	ePcP	18	30	41	
	ePP	18	30	59	
	eS	18	35	56	
	esS	18	36	52	
	eG	18	38	36	
27	eP	18	46	34	Near coast of Costa Rica
	epP	18	46	49	USCGS 0=18:40:55 9°N, 84°W
	esP	18	47	01	h=about 100 km.
	ePP	18	47	22	
	eS	18	51	04	
	esS	18	51	31	
28	iP	00	54	05	
28	eG	01	57	12	Samoa Islands USCGS 0=01:23:33
28	iP	17	20	26	Fox Islands, Aleutian Islands
	ePcP	17	21	10	USCGS 0=17:10:40 53°N, 168°W
	iPP	17	22	02	
	ePPP	17	23	10	
	eS	17	27	29	
	eSeS	17	29	34	
	eLg	17	32	16	
28	iP	19	29	15	Peru - Brazil border
	epP	19	29	41	USCGS 0=19:20:58 7.5°S, 73.5°W
	ePP	19	31	01	

<i>Date</i>	<i>Phase</i>	<i>h</i>	<i>m</i>	<i>s</i>	<i>Remarks</i>
	ePPP	19	31	50	
	eS	19	35	48	
	esSS	19	39	43	
28	eP	20	46	52	Rat Islands, Aleutian Islands
	ePcP	20	47	33	USCGS 0=20:36:22 52°N, 176°E
	ePP	20	49	11	Mag. 6.5 Berk.
	eS	20	55	28	
	eSS	20	59	30	
	eG	21	02	07	
28	eP	21	08	34	Near Islands, Aleutian Islands
	epP	21	08	49	USCGS 0=20:58:09 52°N, 175.5°E
	ePP	21	10	51	h=about 60 km.
29	iP	02	39	40	
29	eP'	04	19	95	Near north coast of Luzon Island, Philippine Islands USCGS 0=04:01:10 19.5°N, 121.5°E
29	iP	06	27	38	Near south coast of Spain
	ipP	06	29	50	Extensive property damage at Granada and Malaga
	iS	06	36	17	USCGS 0=06:17:05 37°N, 3.5°W
	esS	06	40	10	h=about 650 km.
	iSS	06	41	06	Mag. 7.25 - 7.5 Pas.
	eG	06	47	12	
29	iP	14	05	55	
29	eP	22	50	53	
	iS	22	51	23	
30	iP	10	58	55	Kurile Islands
	ePP	11	01	51	USCGS 0=10:46:48 46.5°N, 153.5°E
30	iP	16	30	29	Rat Islands, Aleutian Islands.
	ePcP	16	31	16	USCGS 0=16:19:57 52°N, 175.5°E
	eSS	16	43	03	
30	iP	16	42	36	Rat Islands, Aleutian Islands
	ePcP	16	43	12	USCGS 0=16:32:03 52°N, 175.5°E
	ePP	16	44	52	
	ePPP	16	46	26	
	eSS	16	55	14	
	eLq	16	57	34	
30	iP	16	49	26	Foreshock near northeast coast of Hawaii
	ePPP	16	52	30	USCGS 0=16:40:03 20°N, 155°W
	iS	16	57	01	Mag. 6 (Pas.)
	eLr	17	04	38	
30	iP	18	51	17	Near northeast coast of Hawaii, T.H.
	ePcP	18	52	18	USCGS 0=18:41:54 20°N, 155°W
	ePP	18	53	09	Mag. 6.5 (Pas.)
	ePPP	18	54	19	
	iS	18	58	49	
	eScS	19	00	54	
	eLq	19	03	14	
	eLr	19	05	29	
31	eP	14	07	34	
31	iP'	18	44	59	Arabian Sea
	iPP	18	47	07	USCGS 0=18:25:48 13.5°N, 58°E
	ePKS	18	48	49	
	ePPP	18	49	29	
	eSKS	18	52	54	
	eS	18	54	54	
	ePS	18	57	33	
	eSS	19	03	42	
	eSSS	19	08	52	
	eG	19	18	27	