

RICARD OBSERVATORY  
UNIVERSITY OF SANTA CLARA  
SANTA CLARA, CALIF.

January 1949.

1.	GV	ePENZ iSV	01:18:06 01:18:13	
1.	GV	ePN iSN	14:30:58 14:31:05	
2.	GV	ePENZ eSN	22:05:39 22:05:45	
8.	GV	ePE i N	03:40:21 03:41:22	
20.	GV	e N e N i N	08:00:23 08:00:49 08:01:05	
23.	GV	e Z e Z MZ	06:52:49 07:39:17 07:55:45	
24.	GV	ePZN iSN	00:10:50 00:11:02	
24.	GV	iPz eSEZ	09:27:58 09:37:28	Tonga Isls. USCGS 22S 176V D(S-P) 77.4D 8600km 5340mi.
27.	GV	ePEZ eSEZ eLEZ	07:31:22 07:41:35 07:59:30	
30.	GV	ePN eSN	23:45:49 23:45:53	
31.	GV	ePN eSN	07:38:35 07:38:36	
31.	GV	ePN eSN	23:59:04 23:59:14	

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February 1949.

1.	GW	e Z	18:34:14	Northern New Guinea.
		e EZ	18:59:40	USCGS 2 $\frac{1}{2}$ S 138E
		e EZ	19:05:10	
		eLEZ	19:12:20	
		eLEZ	19:27:05	
2.	GT	iPEZ	17:48:34	Aleutian Islands.
		ipPz	17:50:32	USCGS 53N 172 $\frac{1}{2}$ W
		iPPEZ	17:54:10	
		eSEZ	17:57:36	
		eSE	17:59:55	No surface waves.
9.	GW	ePN	21:57:01	
		e N	21:57:07	
10.	GW	ePN	06:47:36	
		i N	06:48:40	
		e N	06:48:47	
10.	GW	ePZ	22:08:03	Samoa Isls.
		epPN	22:08:16	USCGS 16S 173W
		eSE	22:07:26	D(S-P) 72.5D 8035km 4990mi.
		eLEZ	22:29:16	
11.	GT	iPEZ	21:06:19	Southern Calif.
		i W	21:06:29	USCGS 37.0N 117.8W
		e WZ	21:06:40	D(S-P) 3.7D 410km 256mi.
		eSEnz	21:07:04	
12.	GW	iPZ	02:56:21	
		iSEnz	02:56:31	D(S-P) 0.7D 85km 53mi.
13.	GW	iPz	18:37:06	Kermadec Isls. Region.
		ipPNZ	18:37:21	USCGS 33 $\frac{1}{2}$ S 177 $\frac{1}{2}$ W
		eSE	18:47:56	D(S-P) 77.0D 8555km 5310mi.
		isSE	18:48:15	depth abt 50km
		eLEZ	19:04:20	
14.	GT	iPEZ	18:12:51	Off Coast of Mexico.
		ipPE	18:13:09	USCGS 18 $\frac{1}{2}$ N 105W
		iSE	18:17:18	D 26.0D 2890km 1795mi.
		isSE	18:17:54	depth abt 100km.
		eLE	18:20:04	
15.	GT	MEZ	04:07P47	
15.	GT	ME	06:59:53	
15.	GT	ME	07:55:00	
17.	GT	MEZ	21:06:46	
19.	GW	ePEZ	01:08:20	
		eLEZ	01:34:13	D 79D 8780km 5450mi.

February 1949, contd.

23.	GT	iPZ	16:35:18	
		iSE	16:45:55	
		e Z	16:48:04	
		e Z	16:57:37	D(S-P) 86.7D 9635km 5985mi.
		eLE	17:04:41	
		F	18:10:	
24.	GT	ePE	11:50:28	
		iSEZ	11:52:00	
		ME	11:52:39	D(S-P) 7.9D 885km 553mi.
		F	11:59:	
25.	GT	eBenz	02:20:36	
		iSN	02:28:46	D(S-P) 0.6D 70km 44mi.

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March 1949.

2.	GW	eMEZ	07:33:00	Arctic Ocean, East of Green, land. USCGS 72°N 3°W.
4.	GW	MZ	03:22:20	
4.	GW	e Z	10:33:16	Afghanistan.
		e Z	10:34:15	USCGS 37°N 70°E.
		i Z	10:37:41	
		i Z	10:38:36	
		i E	10:43:28	
		i Z	10:47:41	
		eLZ	11:01:05	
		MEZ	11:14:27	
9.	GW	iPz	12:28:40	Strong in Holister, Damage.
		iSE	12:28:58	USCGS 37.1°N 121.3W D(S-P) 0.6D 70km 44mi.
9.	GW	e EZ	12:57:30	Aftershock of Holister.
13.	GW	ePN	20:38:16	
		iSN	20:38:25	D(S-P) 0.7D 80km 50mi.
14.	GW	iPENZ	06:10:25	
		iSEnz	06:10:34	D(S-P) 0.7D 80km 50mi.
16.	GW	ePEZ	22:28:11	New Britain Region.
		iSE	22:39:03	USCGS 6S 151½E
		ePPPEZ	22:40:27	D(S-P) 90.0D 10000km 6210mi
		eLEZ	22:56:22	
17.	GW	ePz	21:18:12	New Britain Region.
		ePPEZ	21:22:00	USCGS 6S 151½E
		iSE	21:29:08	D(S-P) 91.0D 10110km 6280mi
		iPPPE	21:30:23	
		eLEZ	21:46:42	
24.	GW	ePEZ	20:58:13	Off coast of No. Calif.
		eSWI	20:59:27	USCGS 42N 126½W
		eLWi	20:59:48	D(S-P) 6.3D 705km 440mi.
27.	GW	ePEZ	06:52:34	Celebes Sea.
		ePPPE	06:58:40	USCGS 4N 127½E
		e E	07:07:36	
		e E	07:08:00	
		eSSE	07:09:38	
		eLE	07:22:02	
27.	GW	MEZ	12:29:18	
28.	GW	iSEZ	19:42:35	
		ME	19:44:22	
		ME	19:58:02	

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April 1949.				
5.	GW	iPN i <del>1</del> N i N	09:38:16 09:38:35 09:39:16	
8.	GW	ePNZ iSN i N i N i N	05:52:19 05:52:24 05:52:40 05:52:50 05:53:05	D(S-P) 0.40 40km 25mi.
11.	GW	MEZ	00:26:58	
13.	GW	ePNZ i N iSN	08:59:24 08:59:34 08:59:50	D(S-P) 0.2d. 220km 137mi.
13.	GW Wich. Wich. Wich.	iPEZ e EN eSEN eLEN	19:58:04 19:58:39 19:59:49 20:00:39	Damage in Washington. USCGS 47.1N 122.7W D(S-P) 9.1d. 1015km 634mi.
14.	GW	MEZ	16:31:30	
14.	GW	ME	17:33:04	
18.	GW	iPZ ePN	21:46:06 21:36:13	Samoa Isls. Region. USCGS 14S 173 $\frac{1}{2}$ W
20.	GW	iPZ ipPZ iPPE iSEN isSEN eSSSE eLE	03:41:50 03:42:08 03:45:23 03:52:53 03:52:56 04:02:00 04:09:30	Chile. Pro. Bio-Bio. USCGS 38S 72 $\frac{1}{2}$ W D 88d. 9780km 6075mi. depth abt. 90km.
22.	GW	eLZ ME	17:51:30 17:55:07	
23.	GW	e EN	09:18:43	
23.	GW	ePNZ epPN iSE	11:35:31 11:35:46 11:44:55	
23.	GW	eLE	12:18:30	
24.	GW	eLEZ	05:21:38	
25.	GW	ePEZ epPEZ iSE isSE eSSE eLE	14:06:38 14:07:16 14:16:16 14:16:57 14:21:40 14:28:12	Coast of No. Chile. USCGS 20S 69 $\frac{1}{2}$ W. D 74.5d. 8290km 5150mi. depth 125km

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April 1949, contd.

25.	GW	eLEZ	20:08:28	
26.	GW	e Z	10:24:14	
		eLEZ	10:49:54	
28.	GW	ePN	23:35:28	Felt in Watsonville, Calif.
		iSN	23:35:34	D(S-P) 0.5d. 50km 31mi.
30.	GW	ePZ	01:37:29	
		i EZ	01:42:29	
		i EZ	01:47:58	
		iSEZ	01:48:50	
		i Z	01:50:36	
		i EZ	01:56:20	
		eLE	02:14:26	

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