

Ricard Observatory
 University of Santa Clara
 Santa Clara, Calif.



January 1945.

1.	GV	ePN eSN	22:25:18 22:25:34	
10.	GV	ePN ME	9:54:38 10:02:17	
24.	GV	ePE eSE eLE	21:49:05 21:54:31 22:00:28	D(S-P) 35.2° 3690km
26.	GV	ME	15:45:10	
27.	GV	ePENZ eSE eScSEN eLz	2:53:13 2:59:35 3:05:03 3:05:37	D(S-P) 41.2° 4580km
30.	GV	iPZ eSE ME	5:42:31 5:50:14 6:03:12	D(S-P) 54.4° 6048km
31.	GV	ME	8:45:26	

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February 1943.

7.	GW	ePE eSE eLE	4:37:18 4:47:08 4:59:12	D(S-P) 77.0° 8555km
7.	GW	ePEZ eSE	5:38:55 5:48:55	D(S-P) 74.8° 8290km
7.	GW	e E eLE	6:01:41 6:45:05	
11.	GW	eLE	15:40:15	
16.	GW	iPENZ eSEZ	7:39:59 7:48:45	D(S-P) 68.3° 7590k
16.	GW	iPZ eSE eLE	14:50:50 15:01:13 15:18:57	D(S-P) 83.4° 9265km
17.	GW	ME	3:03:49	
22.	GW	iPZ iSENZ Very large surface waves.	9:26:29 9:01:32	Mexico. D(S-P) 29.6° 3290k 2045m
23.	GW	ePZ eSE eLE	23:02:18 23:07:27 23:10:37	Mexico. D(S-P) 30.5° 5390km
24.	GW	eLE	4:07:56	
28.	GW	ePEN e E	13:12:57 13:20:00	
28.	GW	ePE	13:19:03	

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March 1943.

4.	GW	iPZ ePR1Z eLE	00:40:30 00:43:25 00:55:04	D 48° 5335km
7.	GW	iPZ iSE ME	3:10:41 3:17:58 3:25:46	D(S-P) 50.1° 5565km
8.	GW	ME	9:39:16	
9.	GW	ePZ e E e E F	10:09:37 10:21:21 10:22:35 13:23:	
9.	GW	ME	20:47:58	
10.	GW	e Z	8:35:07	
11.	GW	e Z iSEZ	1:14:03 1:14:19	
11.	GW	ePZ eSKKSE ePSE eLE	9:47:09 9:57:53 9:58:53 10:14:33	D 90° 10000km
14.	GW	e E e E eLE	13:03:53 13:17:33 13:25:03	
14.	GW	iPZ iPSE eLE	17:23:53 17:34:47 17:51:05	D 83° 9220km
14.	GW	iPZ ipPZ iSE isSZ	18:49:38 18:50:16 18:59:13 19:01:55	D 69° 7665km depth 80km
15.	GW	iPZ eSKKSE eLE	2:37:21 2:48:18 3:11:08	D 100° 11110km
15.	GW	ePZ eSKKSEZ eLE	5:01:03 5:11:50 5:30:29	D 89° 9890km
15.	GW	iPZ epPZ iSE i Z	23:10:17 23:11:23 23:19:23 23:38:00	D 78° 8665km depth 300km
20.	GW	ePZ eSE ePSE eLE	5:03:00 5:12:58 5:13:51 5:27:07	D(S-P) 78.2° 8690km
20.	GW	ME	20:57:56	
21.	GW	iPZ eSE e EZ eLE	20:48:50 20:59:24 21:01:18 21:17:14	D(S-P) 85.6° 9510km
25.	GW	ePZ eLE	18:48:01 19:32:22	
29.	GW	iPZ iSE	11:46:02 11:46:07	D(S-P) .4° 40km

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March 1945, contd.

30.	GM	ePZ iSE	21:08:19 21:08:46	D(S-P) 2.2 ⁰ 240km
31.	GM	iPZ iSEZ	7:06:16 7:06:23	D(S-P) .4 ⁰ 45km
31.	GM	ME	22:45:12	

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April 1943.

4.	GV	ME	12:44:15	
5.	GV	ME	2:51:36	
5.	GV	ME	8:33:06	
6.	GV Vick GV	iPZ eSEN MZ	16:19:39 16:29:51 16:47:23	D(S-P) 81.2° 9020km
7.	GV	ePZ iSZ	00:15:09 00:16:12	D(S-P) .2° 25km
7.	GV	MZ	13:57:41	
7.	GV	ePZ MZ	23:30:21 24:07:10	
8.	GV	ePZ	00:13:13	
9.	GV	iPZ eSEZ eLE	9:00:55 9:10:40 9:24:56	D(S-P) 75.6° 8400km
11.	GV	ePZ eSZ MZ	14:57:57 15:07:05 15:20:07	D(S-P) 72.4° 8045km
15.	GV	e E	10:59:42	
15.	GV	eSE eLE	11:57:32 12:18:00	
15.	GV	iPZ iSE	15:23:21 15:23:26	Livermore, Calif. D(S-P) .4° 40km
15.	GV	ePEZ	15:30:46	"
15.	GV	iPE iSZ	15:31:09 15:31:14	" D(S-P) .4° 40km
15.	GV	ePZ	15:49:23	"
15.	GV	ePZ	16:03:03	"
15.	GV	ePZ	16:05:27	"
15.	GV	e Z	16:07:03	"
15.	GV	ePZ	17:11:19	"
15.	GV	ePZ	17:30:03	"
15.	GV	ePZ	17:34:46	"
15.	GV	e Z	17:46:42	"
15.	GV	iPZ iSZ	17:58:28 17:58:33	" D(S-P) .4° 40km
15.	GV	iPZ	22:07:50	"

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April 1943, contd.

16.	GV	ePZ eSZ	10:44:28 10:44:33	Livermore, Calif. D(S-P) .4 ^o 40km
21.	GV	ePE	9:01:54	"
21.	GV	ePEZ iSE	17:12:14 17:12:19	" D(S-P) .4 ^o 40km
21.	GV	ePZ iSE	23:28:18 25:28:24	" D(S-P) .5 ^o 50km
21.	GV	iPZ iSZ	23:39:50 23:39:55	" D(S-P) .4 ^o 40km
21.	GV	ePZ iSE	23:58:04 23:58:09	" D(S-P) .4 ^o 40km
26.	GV	iPZ iSE	11:54:05 11:54:10	" D(S-P) .4 ^o 40km
26.	GV	e Z	12:12:15	"
26.	GV	ePZ	18:23:52	"
27.	Wick	ePEN	00:40:05	"

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May 1943.

1.	GW	iPZ iSEZ	2:51:42 2:51:47	Livermore, Calif. D(S-P) .4 ⁰ 40k 25m
2.	GW	ME	6:40:46	
2.	GW	iPEZ iSE eLE	17:26:53 17:33:58 17:39:56	D(S-P) 48.2 ⁰ 5355k 3325m
3.	GW	ePZ iPR ₁₂ i E ePSE i E eLE	2:13:13 2:17:07 2:23:00 2:25:08 2:31:53 2:44:30	D 95 ⁰ 10535k 6420m
20.	GW	ME	11:30:57	
22.	GW	ME	9:45:28	
25.	GW	ePZ eSKSE iPSE eLE	23:21:30 23:32:10 23:34:42 23:53:30	D 96 ⁰ 10665k 6625m
26.	GW	iPZ eSE eLE	10:36:46 10:41:15 10:44:12	D(S-P) 25.2 ⁰ 2800k 1740m
30.	GW	iPZ iSZ	1:04:16 1:04:21	Livermore, Calif. D(S-P) .4 ⁰ 40k 25m
31.	GW	ePZ	20:17:48	

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June 1943.

1.	GW	ePEZ eSEZ eLE	4:20:05 4:24:05 4:26:06	D(S-P) 21.8° 2420km
3.	GW	ePZ MZ	20:05:13 20:29:29	
3.	GW	ePZ ME	20:59:31 21:23:13	
8.	GW	ME	0:22:17	
8.	GW	ME	1:13:02	
8.	GW	ME	1:50:10	
8.	GW	ePZ eLE	21:04:02 21:41:10	
9.	GW	ePZ eLE	3:27:02 4:05:36	
9.	GW	ME	19:06:18	
13.	GW	iPZ eSEN eLE	5:23:08 5:32:03 5:44:05	D(S-P) 66.1° 7345km
13.	GW	iPZ iSE eLE	8:48:18 8:57:21 9:10:21	D(S-p) 67.7° 7520km
13.	GW	ePZ eSE eLE	17:50:44 17:59:42 18:11:30	D(S-P) 66.7° 7410km
14.	GW	eLE	17:29:14	
15.	GW	iPZ iSE eLE	9:22:01 9:31:02 9:44:04	D(S-P) 67.3° 7480km
15.	GW	iPEZ iSE eLE	18:28:32 18:34:22 18:38:34	D(S-P) 36.4° 4045km
15.	GW	iPZ eSE eLE	19:52:13 19:57:54 20:03:07	D(S-P) 35.1° 3900km
15.	GW	ePZ eSE eLE	20:32:30 20:38:08 20:43:21	D(S-P) 34.6° 3845km
18.	GW	ME	14:29:45	
18.	GW	ME	20:00:34	

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19.	GW	ePz iPcSScPl eLE	9:18:22 9:33:24 9:45:36	D 83° 9220km
20.	GW	ePz eSR1E ME	15:50:36 16:04:52 16:18:21	D 71° 7890km
20.	GW	ME	18:54:46	
24.	GW	e E e E ME	20:55:57 20:45:53 21:02:23	
28.	GW	ePz eSR1E eLE	15:18:21 15:23:36 15:27:16	D 47° 5220km
29.	GW	e E	1:51:27	Near quake.
29.	GW	ePz i Z i E	3:54:31 3:54:55 3:54:38	Livermore, Calif.

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July 1945.

4.	GW	ePZ eSEN eSR1E ePcSScPE ME	10:00:09 10:06:46 10:10:12 10:16:53 10:17:16	D(S-P) 43.7° 4855km
4.	GW	MZ	14:07:45	
5.	GW	ePZ eSEZ	16:00:57 16:01:07	D(S-P) 6° 70km
7.	GW	ME	13:28:16	
9.	GW	ePZ ME	23:35:21 23:45:34	
11.	GW	iPZ ipPZ eSE CLE	2:23:00 2:23:47 2:33:47 2:46:46	D 92.4° 10265km
14.	GW	e E e E ME	20:21:29 20:28:49 20:37:43	
22.	GW	ePE	00:12:04	
22.	GW	ME	2:39:03	
25.	GW	ePZ e E e E ME	15:12:13 15:24:05 15:31:05 15:52:09	
29.	GW	iPEZ iSEZ eLE	3:11:21 3:18:41 3:27:40	D(S-P) 50.6° 3620km
30.	GW	ePZ eLE	1:11:38 1:31:09	
31.	GW	ME	21:45:50	

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August 1945.

1.	GV	ePZ iSLSLZ eLE	16:31:05 16:41:23 16:58:28	D 85° 9220km
2.	GV	ePZ eSE ME	1:05:12 1:14:27 1:34:40	D(S-P) 70.1° 7790km
8.	GV	e E	8:48:39	
9.	GV	iPZ e N iSN	5:31:06 5:31:25 5:31:48	D(S-P) 3.4° 385km
10.	GV	ePEZ iSEZ eLE	15:22:47 15:30:10 15:38:50	D(S-P) 51.1° 5680km
14.	GV	e E ME	2:58:57 3:01:48	
15.	GV	ME	00:46:44	
15.	GV	ME	3:24:40	
20.	GV	ME	2:09:45	
27.	GV	ePZ ePSE eLE	00:54:09 01:04:04 01:16:46	D 72° 8000km
29.	GV	e E eLE	3:01:00 3:02:19	
29.	GV	ePEZ iSNZ	3:16:47 3:18:00	Felt Los Angeles & San Diego D(S-P) 6.2° 690km
31.	GV	iPE iSE eLE	16:17:39 16:23:17 16:28:16	D(S-P) 34.6° 5845km

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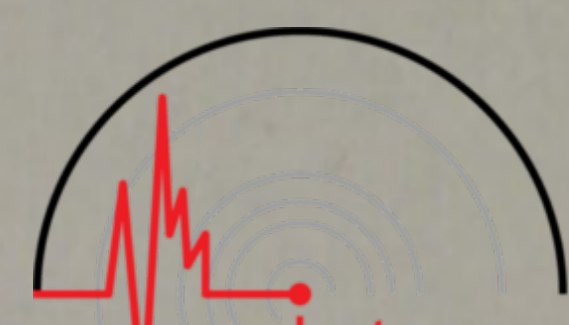
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September 1955



5.	GW	ePZ e E e E ME	8:54:05 9:02:57 9:09:14 9:56:47	
6.	GW	iPZ i ME i E e E	4:01:01 4:10:40 4:27:14 4:28:03	
7.	GW	e E	20:44:46	
10.	GW	iPZ eSE	8:49:07 8:50:08	Japan: Destructive. D(S-P) 78.8° 8755km
10.	GW	ePE ME	8:59:18 9:11:15	
11.	GW	ePE eSE eLE	19:45:40 19:55:26 20:06:53	D(S-P) 75.8° 8420km
13.	GW	ePE eSE	22:10:33 22:10:40	D(S-P) 4.0° 45km
14.	GW	ePZ eSE eLE	2:14:03 2:24:31 2:41:58	D(S-P) 84.4° 9380km
14.	GW	iPZ eSE ePSE eLE	4:00:05 4:10:56 4:11:52 4:27:18	D(S-P) 89.6° 9955km
14.	GW	ePZ eSE eLE	7:30:42 7:41:10 7:56:38	D(S-P) 84.4° 9380km
14.	GW	e E eLE	14:46:51 14:52:49	
15.	GW	e E ME	1:05:54 1:08:55	
15.	GW	ePE eSE	7:53:38 7:54:37	D(S-P) 4.9° 555km
15.	GW	e E	13:26:56	
17.	GW	ME	5:07:24	
17.	GW	ePZ eSE ME	10:22:08 10:32:16 10:49:50	D(S-P) 80.4° 8955km
19.	GW	ePZ eSE eLE	4:58:55 5:07:55 5:20:14	D(S-P) 67.2° 7465km

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September 1943, contd.

20.	GW	iPz iSENZ	00:58:48 01:02:47	D(S-P) 21.7° 2410km
22.	GW	ePz eSE e E	23:31:17 23:41:59 23:57:26	
23.	GW	iPz	00:04:25	
25.	GW	ePz	12:43:39	
25.	GW	iPz iSENZ eLE	14:07:30 14:12:53 14:17:25	D(S-P) 35.2° 3690km
26.	GW	ePz i EN	17:48:31 17:48:34	Felt San Jose, Santa Clara Calif.
28.	GW	e E	18:32:33	
27.	GW	iPz eLE	22:16:18 22:43:37	
28.	GW	eLE	11:23:34	
30.	GW	NE	8:02:51	

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October 1943.

1.	GW	e E	12:38:56	
2.	GW	ePE eSE	6:58:11 6:59:07	
4.	GW	iPZ eSE ePSE eLE	10:52:21 11:02:48 11:04:01 11:18:05	D(S-P) 84.2° 9555km
13.	GW	ePZ eSE eLE	4:48:33 4:51:34 4:52:13	D(S-P) 16.0° 1780km
14.	GW	ePE	5:51:12	Near.
14.	GW	ePZ	22:27:00	Near.
17.	GW	ME	23:30:50	
21.	GW	iPZ eSE eLE	23:19:54 25:29:30 25:41:40	D(S-P) 73.8° 8200km
23.	GW	ePZ e E e E i Z ME	17:41:52 17:48:16 17:51:25 17:51:56 18:21:25	PS
24.	GW	iPZ iSE eLE	16:16:53 16:26:28 16:37:20	D(S-P) 77.6° 8520km
25.	GW	iPENZ	4:50:37	Strong quake felt from San Francisco to Fresno. Plate glass windows broken plaster fallen, and walls cracked in San Jose. Horizontal needles on W-E knocked off drum. Spring broken on W-E Galitzin.

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November 1943.

2.	GV	ePz	17:54:26	
2.	GV	ePz	18:28:20	
		eSN	18:46:40	
		MN	19:11:40	D 101° 11220km
5.	GV	iPE	14:38:55	
		i Z	14:59:36	
		iSEIZ	14:45:55	D(S-P) 32.1° 3565km
		iLE	14:47:20	
6.	GV	iPz	8:45:39	
		iPz	8:50:29	
		i E	8:56:36	
		i E	9:08:04	
		eLE	9:19:19	
8.	GV	ME	7:50:24	
9.	GV	ePEIZ	11:57:14	
13.	GV	MN	17:26:55	
15.	GV	iPz	18:56:38	
		eSN	19:07:06	
		eLE	19:24:40	D(S-P) 84.4° 9380km
15.	GV	ePz	5:37:02	
		eSN	5:37:42	D(S-P) .5° 50km
16.	GV	ePz	6:16:03	
16.	GV	iPz	11:49:05	
16.	GV	ePE	18:21:00	
16.	GV	ePz	21:58:56	
		eSE	21:59:04	D(S-P) .5° 50km
21.	GV	ME	20:00:06	
26.	GV	ePz	22:38:41	
		e E	22:52:53	
		eLE	23:07:50	

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December 1945.

1.	GV	iPZ e E e E eLE	6:20:07 6:29:35 6:37:13 6:49:00	
1.	GV	iPZ eLE	10:47:22 10:55:46	
3.	GV	ePEZ eLE	5:02:22 5:50:15	
4.	GV	ePZ eSN	20:14:15 20:14:51	D(S-P) 2.9° 325km
8.	GV	ePN eLE	19:47:22 19:56:10	
13.	GV	ME	16:40:38	
17.	GV	ePE eSE	4:39:20 4:39:41	
19.	GV	ePZ iSE	1:52:38 1:52:44	D(S-P) .5° 50km
21.	GV	ePENZ ME	13:55:28 14:18:23	
21.	GV	iPZ eSE eLE	13:02:16 13:10:12 13:21:22	D(S-P) 56.4° 6265km
22.	GV	ePEZ e E	15:52:19 15:53:38	
23.	GV	iPZ eLN	16:05:13 16:26:00	
23.	GV	iPZ iPZ eSE e E e E eLE	19:13:07 19:16:41 19:23:49 19:26:16 19:29:45 19:40:22	D(S-P) 87.5° 9720km
24.	GV	ePE eLE	3:04:29 3:30:18	
24.	GV	ME	13:29:21	
25.	GV	e E ME	5:17:24 5:19:21	
25.	GV	ePZ e Z eLE	8:21:13 8:24:22 8:24:54	
26.	GV	iPZ ePcSE eLE	5:02:47 5:08:44 5:12:56	
27.	GV	e E MEZ	4:39:10 4:48:12	
30.	GV	ME	7:09:52	
30.	GV	e E ME	8:21:05 8:28:49	
30.	GV	ME	22:45:27	

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