

Ricard Observatory  
 University of Santa Clara  
 Santa Clara, Calif.

January 1952.



1.	GW	i N ME	07:13:28 07:24:12	USCGS 3 $\frac{1}{2}$ S 105W
3.	GW	eLE	10:20:19	USCGS 16N 99W
4.	GW	ePNZ eLE	06:00:44 06:35:33	USCGS 22S 169 $\frac{1}{2}$ E
9.	GW	ME	23:03: 22	USCGS near Sonora, Mex.
11.	GW, VA, V	ePEN iSE	11:12:46 11:12:52	
12.	GW	ME	21:28:47	USCGS 53N 167W
19.	GW	e E e E eLE	07:30:43 07:35:13 07:39:53	USCGS 52 $\frac{1}{2}$ N 166W
21.	GW	ePZ e E i E eLE	03:49:52 03:54:57 03:57:40 03:59:38	USCGS 53N 166 $\frac{1}{2}$ W 60km
31.	GW	ePN eSE eLE	20:23:33 20:28:42 20:34:04	
31.	GW, VA, V	ePEN iSEN	21:33:29 21:33:43	
31.	GW	ME	22:11:28	

by John A. Weber, SJ



RICARD OBSERVATORY  
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February 1952 .

4.	GW	eLE	19:17:23	USCGS So. Gulf of Calif.
6 .	GW	ME	07:36:10	USCGS Kermadec Isls
14.	GW	ePEN e E eLE	03:57:29 04:06:52 04:29:59	USCGS 8S 125E
14.	GW	eLE	21:32:33	USCGS 7 $\frac{1}{2}$ N 76 $\frac{1}{2}$ W
15.	GW WA	e N eP EN e SEN	22:15:09 22:15:11 22:15:18	
16.	GW	ME	07:43:22	USCGS Nr Coast Oaxaca, Mex.
17.	GW	e E e E eLE	17:39:42 17:42:24 17:44:38	USCGS So Gulf of Calif.
21.	GW	eLE	23:53:38	USCGS 23 $\frac{1}{2}$ N 109W
22.	GW	ME	12:23:42	USCGS 61 $\frac{1}{2}$ N 161W
24.	GW	ME	19:22:24	
25.	GW	ePEN e N e E e E e E MEN	01:28:32 01:30:02 01:38:02 01:42:38 01:47:31 01:50:00	USCGS 17S 173 $\frac{1}{2}$ W
26.	G W WA V	iPENZ ipPE iSEN isSE	11:42:00 Dil 11:42:59 11:50:53 11:51:40	USCGS 15S 69W 250km
26.	GW	eLE	16:02:47	USCGS 11 $\frac{1}{2}$ N 86 $\frac{1}{2}$ W 100km
26.	GW	ePE ME	21:45:28 21:50:19	

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March 1952.

3.	GW	ME	18:09:08	USCGS 11N 86 $\frac{1}{2}$ W 100km
4.	GW, VA, V	ePEN	01:54:05	USCGS 42 $\frac{1}{2}$ N 143 $\frac{1}{2}$ E
		ipPEN	01:54:21	
		iSE	01:42:54	
9.	GW, VA	ePEN	17:15:31	USCGS 42N 143 $\frac{1}{2}$ E
		iSE	17:24:03	
		eLE	17:33:36	
9.	GW	ePE	20:05:42	USCGS 59 $\frac{1}{2}$ N 156W
		eSE	20:10:13	
		ME	20:15:01	
18.	GW	ME	04:15:56	
19.	GW	ME	00:55:54	
19.	GW, VA, V	ePE	11:14:23	USCGS 9 $\frac{1}{2}$ N 127E
		i E	11:15:15	
		i E	11:24:08	
		i E	11:27:44	
20.	GW	ME	01:59:59	
20.	GW	ME	11:40:22	
20.	GW	ME	20:09:31	
21.	GW	ME	00:17:04	
21.	GW	eLE	16:49:04	
21.	GW	ME	12:23:09	
22.	GW	e E	18:29:00	USCGS 52N 175W
		eLE	18:33:14	
23.	GW	e E	16:10:57	
		eLE	16:26:12	
25.	GW	ME	10:13:56	USCGS 5 $\frac{1}{2}$ S 150E
25.	GW	ME	19:35:13	

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Apr 1952.



2.	GM	ePE eLE	18:41:06 18:49:40	USCGS 16 $\frac{1}{2}$ N 99 $\frac{1}{2}$ W
3.	GM, VA	ePLN e IN e IN	17:45:03 17:45:13 17:45:25	
4.	GM	ePEZ eSE ME	03:02:34 03:10:18 03:18:21	USCGS 08 $\frac{1}{2}$ 02 $\frac{1}{2}$ 34- 52N 159 $\frac{1}{2}$ E
8.	GM, VA	WA iPEN	08:36:13	
8.	GM	ME	10:50:36	
9.	GM	ME	08:20:11	
9.	GM	ePE eSE eLE	16:39:57 16:52:23 17:00:57	USCGS 55.4N 97.8W 125km
9.	GM, VA	ePE iSE	17:15:20 17:15:12	
15.	GM	e E MEZ	00:39:35 00:51:33	USCGS 25S 69 $\frac{1}{2}$ W 100km
15.	GM	MEZ	20:07:20	
19.	GM, VA	iPZ i E eLE	10:08:20 10:15:54 10:30:55	USCGS 7N 71 $\frac{1}{2}$ W 60km
19.	GM, VA, V	iPEN	17:35:08	Local.
28.	GM, VA, V	iPEN iSEN	03:01:34 03:01:38	

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May 1952.

4.	GW	e E MEZ	14:57:28 14:54:19	USCGS 24 $\frac{1}{2}$ S 177 $\frac{1}{2}$ W
6.	GW, VA, V	ePEZ 1 EZ	17:22:28 17:23:24	USCGS 41 $\frac{1}{2}$ N 125W
6.	GW	e EZ e EZ	22:37:23 22:40:16	
7.	GW	ME	18:22:05	
8.	GW	e E ME	21:55:54 22:14:58	USCGS 2 $\frac{1}{2}$ N 127E
9.	GW	e E eLE	05:51:05 04:05:16	
9.	GW, VA, V	iPENZ iSEN	15:52:21 Comp 15:53:05	USCGS 59 $\frac{1}{2}$ N 119 $\frac{1}{2}$ W
9.	GW	PEZ e EZ e EZ eLEZ P started in time mark.	18:00:(42) 18:11:24 18:12:22 18:27:40	USCGA 6 $\frac{1}{2}$ S 155E 60km
10.	GW	eME	09:43:53	
11.	GW, VA, V	ePEN iSEN	17:57:51.5 17:57:53.5	Felt Los Gatos.
11.	GW, VA, V	ePEN iSEN	18:13:54 18:13:57	LOS Gatos.
13.	GW	ME	04:21:25	
15.	GW	iPEZ iSE eLE	19:39:53.9 Comp 19:46:16 19:55:00	USCGS 10 $\frac{1}{2}$ N 85W 100km
14.	GW	e E ME	01:05:18 01:07:50	USCGS 45N 145 $\frac{1}{2}$ E
14.	GW	iPZ eSE eLE	21:19:02 Comp 21:24:51 21:32:30	USCGS 16 $\frac{1}{2}$ N 86 $\frac{1}{2}$ W
15.	GW	eLE	19:01:23	
15.	GW	ME	21:58:43	



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May 1952, contd.



16.	GV	eLE	05:59:45	USCGS 14N 92 $\frac{1}{2}$ W
16.	GV	ME	11:07:53	USCGS 16 $\frac{1}{2}$ N 96 $\frac{1}{2}$ W 100km
16.	GV	ePEZ iSE eLE	20:54:38 Comp 21:01:46 21:10:01	USCGS 6 $\frac{1}{2}$ N 79W
17.	GV	ePE eSE eLE	09:58:20 10:08:26 10:21:52	USCGS 42 $\frac{1}{2}$ N 144 $\frac{1}{2}$ E
19.	GV	ePEZ iSE eLE	18:43:28 18:52:29 19:04:55	USCGS 43N 144 $\frac{1}{2}$ E
21.	GV	ME	00:51:50	
21.	GV	ME	12:03:59	
22.	GV	ME	23:52:47	USCGS 29 $\frac{1}{2}$ N 131 $\frac{1}{2}$ E 60km
23.	GV	ME	05:02:44	USCGS 53N 136E 60km
23.	GV	ePE eSE eLE	22:19:21 22:24:59 22:26:59	USCGS 20N 156W
24.	GV	ePE eSE e E eLE	02:11:40 02:20:51 02:21:25 02:38:04	USCGS 21 $\frac{1}{2}$ S 71W
24.	GV, WA	iSE	04:18:52	Felt in Nevada.
24.	GV	MZ e EZ ME MEZ	16:21:28 16:27:07 16:30:54 17:13:03	
28.	GV, WA	iPEZ ipPE iSEZ esSE ME	08:10:50 Dil. 08:10:41 08:19:52 08:20:12 08:54:01	USCGS 35 $\frac{1}{2}$ N 136E 400km
31.	GV	MEZ	05:55:46	

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June 1952.



2.	GM	ME	16:49:27		
4.	GM, MA, V	ePEN iSNN	18:59:26 18:59:36		
5.	GM	ME	06:28:59		USCGS 6N 77 $\frac{1}{2}$ W 60km
10.	GM	MEZ	10:55:22		USCGS 15 $\frac{1}{2}$ S 178 $\frac{1}{2}$ W
11.	GM	iPZ iSE eLEZ	01:44:19 01:54:49 02:15:12	Com	USCGS 32S 67 $\frac{1}{2}$ W
12.	GM	ME	01:26:04		
12.	GM	ME	05:47:49		
15.	GM	eLEZ	15:50:42		USCGS 66N 154W
17.	GM	ePEZ eSE eLE	04:19:46 04:50:41 04:40:58	Dil	USCGS 21 $\frac{1}{2}$ S 176W
17.	GM	e E e E e E eLEZ	12:51:50 12:59:52 13:08:08 13:16:24		
19.	GM	e Z eSE eLE	12:40:07 12:47:52 13:04:09		USCGS 25N 100E
19.	GM	e EZ e E eLEZ	21:30:44 21:59:16 21:58:42		
20.	GM	iPEZ e E eLEZ	05:59:59 06:10:27 06:51:20	Dil	USCGS 25 $\frac{1}{2}$ N 122E
21.	GM	ePZ eSE e E eLE	06:59:16 06:47:32 06:51:22 06:55:42	Dil	USCGS 46N 153 $\frac{1}{2}$ E
22.	GM	ME	04:10:47		
22.	GM	eSE e E eLE	10:26:46 10:53:42 10:58:24		USCGS 46N 153 $\frac{1}{2}$ E
22.	GM	ePEZ eSE ME	21:52:09 22:00: 22:07:22	Com	USCGS 46N 153 $\frac{1}{2}$ E
23.	GM	ePE ME	12:27:06 13:05:34		USCGS 24 $\frac{1}{2}$ N 122E
24.	GM	MEZ	05:54:29		USCGS 14 $\frac{1}{2}$ S 168 $\frac{1}{2}$ E
24.	GM	ePZ eSE eLE	16:59:18 16:47:55 16:54:49		USCGS 46 $\frac{1}{2}$ N 154E
28.	GM	e E e E MEZ	16:45:20 16:45:00 16:48:02		USCGS 16 $\frac{1}{2}$ N 97 $\frac{1}{2}$ W

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July 1952.

3.	GW	e Z MEZ	01:01:41 01:24:39		USCGS 5 $\frac{1}{2}$ N 78W
7.	GW	eLEZ	05:08:36		USCGS 54N 164W
9.	GW, VA	ePEZ e E e E eLEZ	18:23:54 18:50:49 18:54:09 18:41:06		USCGS 7 $\frac{1}{2}$ N 82W
9.	GW	ePEZ e E eLEZ	20:45:33 20:52:25 21:02:36		USCGS 7 $\frac{1}{2}$ N 82W
10.	GW, VA	ePEZ iSE	15:56:24 16:05:50		USCGS 18 $\frac{1}{2}$ S 180 700km
13.	GW	ME	03:35:42		
13.	GW	ME	08:09:41		
13.	GW, VA	iPEZ i NZ iSE i E ME	12:10:46 Dil 12:12:18 Dil 12:20:42 12:22:32 12:59:40		USCGS 18 $\frac{1}{2}$ S 169 $\frac{1}{2}$ E
15.	GW	ePEZ e NZ i E eLEZ	17:55:51 Dil 18:02:41 18:08:50 18:24:51		USCGS 5S 128E
15.	GW, VA	ePEZ eSE eLE	06:13:15 Com 06:09:00 06:24:53		USCGS 14 $\frac{1}{2}$ N 92 $\frac{1}{2}$ W
15.	GW	e E ME	15:35:06 15:40:32		
15.	GW	e E eLE	19:14:20 19:17:50		
16.	GW	eLE	01:56:53		USCGS 29 $\frac{1}{2}$ N 113 $\frac{1}{2}$ W
17.	GW	ePEZ eSE eLE	16:21:50 Com 16:31:36 16:45:02		USCGS 54 $\frac{1}{2}$ N 156E 100km
18.	GW	iPZ eLEZ	18:49:55 Com 19:08:50		USCGS 23S 114 $\frac{1}{2}$ W
20.	GW	MEZ	06:18:53		
21.	GW, VA, W	iPEZ	11:53:05		USCGS 35.1N 118.9W
21.	W	iPE	12:05:50	"	"
21	W	iSE	12:41:56	"	"
22.	GW	eLE	25:58:07		
24.	GW	e E ME	11:07:49 11:14:29		
24.	GW	ePEZ iSE eLE	22:20:52 22:29:05 22:40:58		USCGS 42 $\frac{1}{2}$ N 145 $\frac{1}{2}$ E 60 km
25.	GW	e E eLE	15:11:05 15:21:09		
27	GW	eSE ME	02:52:50 02:41:45		
27.	GW, VA	iPEZ iSEZ	08:34:57 Dil 08:45:54		USCGS 20 $\frac{1}{2}$ S 179W 500km





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July 1952. Tehachapi, Aftershocks.

21.	V	SW	iSE	12:41:36	1.
		VA	ePE	14:12:11	2.
		VA	ePE	14:16:19	3.
		VA	ePE	14:44:11	4.
		VA	ePE	14:52:42	5.
		VA	eSE	14:59:28	6.
		VA,V	ePE	15:14:52	7.
		VA	ePE	15:35:38	8.
		VA,V	ePE	15:37:39	9.
		VA,V	ePE	15:43:44	10.
		VA,V	ePE	15:52:46	11.
		VA	ePE	16:17:11	12.
		GV,VA,V	ePE	16:39:46	13.
		VA	ePE	17:14:05	14.
		GV,VA,V	ePE	17:43:40	15.
		VA,V	ePE	18:00:32	16.
		VA	ePE	18:24:39	17.
		VA	eSE	18:28:29	18.
		VA	eSE	19:08:30	19.
		VA	eSE	19:14:06	20.
		VA,V	ePE	19:17:28	21.
		GV,VA,V	iPL	19:42:16	22.
		VA	eSE	20:22:56	23.
		VA	eSE	20:49:06	24.
		VA	eSE	20:59:47	25.
		VA	ePE	21:53:42	26.
		VA	eSE	22:05:05	27.
		VA,V	ePE	23:54:30	28.
22.		VA,V	ePE	01:42:08	29.
		VA,V	ePE	01:52:59	30.
		VA	eSE	02:23:25	31.
		VA	eSE	02:29:11	32.
		VA	eSE	02:36:41	33.
		VA,V	ePE	03:22:05	34.
		VA,V	ePE	08:17:38	35.
		VA,V	eSE	08:23:29	36.
		GV,VA,V	eSE	08:49:05	37.
		VA,V	eSE	09:12:00	38.
		VA,V	eSE	10:21:48	39.
		GS,VA,V	eSE	13:52:45	40.
		VA,V	eSE	14:07:02	41.
		VA,V	ePE	14:31:47	42.
		VA,V	ePE	15:04:32	43.
		VA	eSE	17:54:07	44.
		VA,V	ePE	19:10:36	45.
		VA,V	ePE	21:03:18	46.
		GV,VA,V	ePE	22:32:31	47.
23.		VA	eSE	00:28:07	48.
		GV,VA,V	iPLZ	00:59:49	49. Comp.
		VA	ePE	03:18:27	50.
		GV,VA,V	ePE	03:20:20	51.
		GV,VA,V	ePE	03:50:22	52.
		GV,VA,V	ePE	04:02:45	53.
		VA	eSE	05:00:48	54.
		GV,VA,V	ePE	05:47:04	55.
		VA	ePE	06:12:00	56.
		VA	ePE	06:27:37	57.
		VA,V	ePE	06:54:51	58.
		VA,V	ePE	07:37:59	59.
		GV,VA,V	ePE	07:54:18	60.
		VA	eSE	08:22:33	61.
		VA	eSE	09:09:46	62.
		VA	ePE	09:40:53	63.
		VA	ePE	10:55:38	64.
		GV,VA,V	ePEZ	13:18:04	65. Dil.
		GV,VA,V	iSE	13:31:31	66.
		VA	ePE	15:25:52	67.
		VA,V	ePE	16:18:45	68.
		GV,VA,V	ePE	16:49:48	69.
		GV,VA,V	ePE	17:22:26	70.
		VA	ePE	17:54:33	71.
		VA	eSE	18:04:03	72.
		GV,VA,V	ePE	18:13:46	73.





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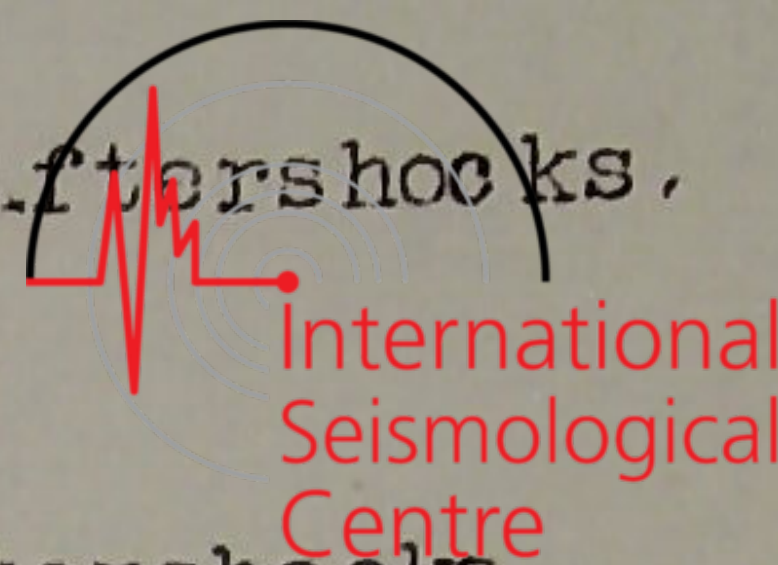


July 1952.		Tehachapi Aftershocks, contd.		
23.	VA	eSE	18:28:53	74.
	GM, VA,	ePE	19:52:34	75.
	VA	ePE	21:18:37	76.
	VA	ePE	22:08:39	77.
	VA, V	ePE	22:33:36	78.
24.	VA	ePE	02:43:34	79.
	VA	eSE	03:11:42	80.
	GM, VA	ePE	05:02:53	81.
	GM	eSE	09:52:42	82.
	GM, V	ePE	11:49:11	83.
	V	ePE	14:06:54	84.
	VA	eSE	14:11:48	85.
	GM, VA	ePE	17:36:29	86.
25.	VA	ePE	00:05:18	87.
	VA	ePE	01:48:03	88.
	GM, VA, V	ePE	07:04:52	89.
	GM, VA, V	ePE	13:14:05	90.
	GM, V	ePEZ	14:36:08	91.
	GM, V	ePEZ	19:10:40	Dil 92.
	GM, V	ePEZ	19:44:17	Dil 93.
	GM, V	ePEZ	20:07:04	94.
26.	GM	ePEZ	01:04:06	95.
	GM	eSE	06:40:42	96.
	GM, V	ePEZ	09:23:17	97.
	GM	eSE	12:21:23	98.
	GM, VA	eSE	15:10:13	99.
	GM, VA	eSE	18:04:32	100.
	GM, VA, V	ePE	22:42:08	101.
	GM, VA, V	ePE	23:00:03	102.
	VA	ePE	23:13:51	103.
27.	GM, VA	ePE	00:10:20	104.
	GM, VA	ePE	02:50:10	105.
	GM, VA	ePE	07:17:22	106.
	GM, VA	ePE	07:36:32	107.
	GM, VA	ePE	11:55:45	108.
	VA	eSE	17:39:20	109.
	VA	eSE	18:57:51	110.
28.	GM, VA	ePE	02:22:38	111.
	GM, VA	ePE	05:47:34	112.
29.	GM, VA, V	iPEZ	07:04:56	Comp 113.
	GM, VA, V	ePEZ	15:50:48	114.
	VA	ePE	17:37:30	115.
	GM, VA, V	ePEZ	19:52:28	116.
30.	GM, VA	ePE	10:00:35	117.
	VA	ePE	14:48:08	118.
31.	GM, VA	ePE	04:11:23	119.
	GM, VA, V	iPEZ	12:09:59	Comp 120.
	VA	ePE	19:06:31	121.
	GM, VA, V	ePE	19:53:57	122.



Richard Observatory  
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August 1952.				
1.	VA	ePE eSE	00:11:30 00:11:41	
1.	GM, VA, V VA GM, VA, V	ePE ePE ePE	03:17:08 10:37:24 13:05:19	123 Tehachapi, Aftershocks. 124 125
3.	GM, VA VA GM, VA	ePE ePE ePE	00:14:30 07:30:49 09:28:44	126 Tehachapi Aftershocks. 127 128
3.	GM, VA	iPE iSE	16:28:50 16:28:54	Felt at Miles, Calif.
4.	GM, VA GM, VA	ePE eSE	01:39:57 19:49:43	129 Tehachapi Aftershocks. 130
5.	GM, VA	ePE	06:51:14	131. Tehachapi.
6.	GM, VA VA	ePE ePE	03:46:54 09:20:14	132. Tehachapi. 133.
7.	GM, VA, V	ePLZ	16:52:50	134 Tehachapi.
10.	GM, VA, V GM, VA VA	ePE ePE eSE	12:24:19 19:45:34 23:09:25	135 Tehachapi. 136. 137.
11.	GM, VA	ePE	15:22:52	138. Tehachapi.
13.	GM, VA, V GM, VA	ePE iSE ePE	04:30:33 04:31:16 17:40:32	139. Tehachapi. 140.
13.	GM	eLE	21:29:55	
14.	GM, VA VA, GM, VA	ePE ePE ePE	06:47:50 07:29:29 11:42:50	141. Tehachapi. 142. 143.
14.	GM	ePZ eSE eLE	23:29:39 23:40:22 23:57:45	Dil USCGS 6S 155E
16.	GM	eSE eLEZ	14:15:38 14:54:30	
17.	GM	ME	07:38:19	
	GM	ME	09:11:05	
	GM	ME	11:33:33	
17.	GM	ePEZ iSE ME	16:20:57 16:28:33 16:40:17	Dil USCGS 30 $\frac{1}{2}$ N 91 $\frac{1}{2}$ E
18.	GM, VA, V	ePE	04:41:07	144. Tehachapi.
18.	GM	ePEZ eSEZ eLE	13:17:23 13:27:40 13:48:22	Dil
19.	GM	eLE	00:09:20	
	GM	ME	11:28:39	
19.	GM, VA, V	ePE	19:13:34	145. Tehachapi.
20.	VA, V	ePE iSE	01:21:11 01:21:19	
20.	GM	eLE iLE	08:51:25 08:59:42	





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August 1952, contd.					
20.	GV	ePEZ iPEZ	15:26:44 Com 15:26:49 Dil.	USCGS 43N 127W	
21.	GV	e E eLEZ	09:48:11 09:48:30	USCGS 43N 127W	
21.	GV	eLE	19:12:03	USCGS 43 $\frac{1}{2}$ N 127W	
22.	GV, VA, V	iPEZ	22:42:13 Comp	USCGS 35.3N 119.0W	
23.	GV, VA	ePE	06:04:17		
23.	GV, VA, V	ePE	10:10:27	USCGS 34 $\frac{1}{2}$ N 118W	
23.	GV	ME	14:48:13	USCGS 7N 82W	
24.	GV	ME	13:24:17		
25.	GV, VA, V	ePE	06:21:53		
26.	GV, VA, V	ePE	20:57:45		
27.	GV	eSE eLE	11:39:18 11:42:39	USCGS 55 $\frac{1}{2}$ N 160 $\frac{1}{2}$ W 60km	
27.	GV, VA, V	ePE iSE	15:17:44 15:17:48	Felt Coyote, Calif.	
28.	GV,	ePZ eSE eLE	10:59:17 Dil 11:04:16 11:07:40	USCGS 55N 160W	
28.	GV	ePZ eSE eLE	13:08:38 Comp 13:18:17 13:28:16	USCGS 34S 106W	
28.	GV	ME	15:55:14	USCGS 16N 91 $\frac{1}{2}$ W 150km	
29.	GV	eLE	16:35:10		
30.	GV	eLE	04:56:54		
	GV	ME	15:35:36		
31.	GV	e E eLE	16:29:47 16:42:10	USCGS 42N 142 $\frac{1}{2}$ E	

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RICARD OBSERVATORY  
University of Santa Clara  
Santa Clara, Calif.



September	1952.					
1.	GM, VA	ePE iSE	10:40:13 10:40:51			
2.	GM, VA	ePE	12:42:40			
2.	GM, VA	ePE	20:46:57			
4.	GM, VA	ePEZ	18:07:51			
9.	GM, VA, V	ePENZ eSEN eLE	13:02:53 13:09:26 13:15:18	Dil	USCGS 9N 84 $\frac{1}{2}$ W	
11.	GM	iPEZ eSE e E eLEZ	22:39:20 22:49:44 22:55:25 23:09:03	Comp	USCGS 29S 177W	
12.	GM, VA	ePE	10:36:28			
13.	GM, VA, V	ePE iSE	09:07:05 09:07:17			
14.	GM	MEZ	10:33:02			
14.	GM, VA	ePE eSE	20:44:40 20:45:13			
15.	GM	ePZ eSE eLE	14:11:06 14:15:40 14:21:39	Dil.		
16.	GM, VA	ePE	15:22:14			
16.	GM	MEZ	22:53:50			
20.	GM	eLE	04:56:03			
20.	GM	eLE	13:57:10			
21.	GM, VA	iPEZ i EZ iSEZ eLEZ	02:42:19 02:43:22 02:46:24 02:51:46	Comp comp	USCGS 22 $\frac{1}{2}$ S 65W 250km	
21.	GM	eLE	11:46:26		USCGS 33 $\frac{1}{2}$ N 142E	
22.	GM, VA, V	iPEZ	11:42:21		USCGS 40 $\frac{1}{2}$ N 124W	
24.	GM	ME	07:42:54			
24.	GM	ME	20:42:45			
27.	GM	iPEZ eSE eLE	19:15:26 19:25:39 19:32:32			
28.	GM	ME	02:35:56			
30.	GM	ePZ e E eLEZ	13:10:20 13:24:55 13:49:30	Dil		

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RICARD OBSERVATORY  
UNIVERSITY OF SANTA CLARA  
SANTA CLARA, CALIF.

October 1952.

1.	GW	e E ME	01:54:56 01:58:57	USCGS 49N 129W
1.	GW	ME	10:03:52	
2.	GW	e E eLE	14:25:40 14:37:23	
3.	GW	ePZ eSE eLE	07:45:24 07:52:30 08:01:20	Comp USCGS 6 $\frac{1}{2}$ N 83W
4.	GW	ME	05:02:54	
4.	GW	e E iSE	12:42:41 12:43:41	
5.	GW	e E eLE	22:54:41 23:01:41	
7.	GW	ME	07:06:28	USCGS 42N 127W
7.	GW	ME	07:55:46	USCGS 42N 127W
8.	GW	eLE	21:40:51	USCGS 28N 114W
9.	GW, VA, V	ePE iSE	14:47:11 14:47:39	
10.	GW	ePZ eSE ME	16:07:07 16:16:44 16:28:22	Comp
10.	GW	ME	19:40:46	USCGS 50 $\frac{1}{2}$ N 69E
11.	GW	e E ME	00:54:32 01:02:52	USCGS 6S 149E
13.	GW, VA, V	ePEZ iSEZ	00:54:18 00:54:25	
14.	GW	e E eLR	00:01:31 00:18:25	
15.	GW	e E ME	00:11:30 00:22:02	USCGS 8 $\frac{1}{2}$ N 83W
16.	GW, VA	ePE	12:25:38	
18.	GW	ePZ eSE eLEZ	05:54:19 05:45:51 06:02:05	Di1 USCGS 16S 168W
18.	GW	ePEZ eLE	12:09:00 12:53:20	Comp USCGS 13N 46W
18.	GW	e EZ eLE	21:04:15 21:16:47	USCGS 16S 173W
20.	GW	ME	15:09:04	
22.	GW	ePZ iSEZ	00:46:06 00:46:12	
22.	GW	ePE	19:51:19	USCGS 52N 113 $\frac{1}{2}$ W
25.	GW, VA	ePE eLE	14:54:37 14:37:48	USCGS 26N 112W
25.	GW	ME	16:27:44	
26.	GW	i E ME	18:22:33 18:31:05	USCGS 39N 143E





October 1952, Contd.

27.	GW	e E ME	03:27:45 03:48:19		USCGS 39N 143E
28.	GW	ePEZ eSE ME	04:58:30 04:49:02 04:57:10		USCGS 18 $\frac{1}{2}$ N 73 $\frac{1}{2}$ W
29.	GW,VA	iSEZ	19:45:34	Comp	



November 1952.

4.	GW,VA,V	iPEZ eSE eLE	17:08:09 17:16:40 17:21:09	Comp	USCGS 52 $\frac{1}{2}$ N 159E
5.	GW	ePZ MZ	02:29:49 02:46:53	Dil	USCGS 50 $\frac{1}{2}$ N 157E
5.	GW	ePZ MZ	13:15:58 13:52:28		USCGS 52N 159 $\frac{1}{2}$ E
5.	GW	ME	19:52:45		USCGS 53 $\frac{1}{2}$ N 161 $\frac{1}{2}$ E
5.	GW	ME	23:11:20		
6.	GW	ME	06:13:51		
6.	GW	ePZ e E i E MEZ	19:55:40 20:05:18 20:13:34 20:30:56	Comp	USCGS 5S 145 $\frac{1}{2}$ E
7.	GW,VA	ePE iSE	08:26:45 08:57:39		
7.	GW	ePZ e E eLE	14:18:40 14:26:20 14:35:05	Dil.	USCGS 49N 157E
7.	GW	iPZ iSEZ	20:58:31 21:01:29	Comp	USCGS 26N 110 $\frac{1}{2}$ W
7.	GW	iPZ MZ	22:24:49 22:56:12	Dil	USCGS 47 N 155E
8.	GW,VA,V	ePEZ	19:38:15		
8.	GW	ePEZ e E ME	19:51:20 20:06:56 20:16:02	Dil	USCGS 48 $\frac{1}{2}$ N 156E
9.	GW	ME	00:51:15		USCGS 48 $\frac{1}{2}$ N 155 $\frac{1}{2}$ E
9.	GW	ME	05:04:16		USCGS 49N 158E
9.	GW	ME	15:49:11		USCGS 45N 151 $\frac{1}{2}$ E
10.	GW	ME	01:22:24		USCGS 50N 158 $\frac{1}{2}$ E
10.	GW	ME	06:54:15		
13.	GW,VA,V	ePEZ e E	00:56:17 00:56:52		USCGS 38 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
20.	GW	iPZ eSE eLE	15:44:49 15:50:29 15:57:35	Dil	USCGS 12 $\frac{1}{2}$ N 88W
22.	GW,VA,V	iPEZ iSEZ	07:47:07 07:47:25	Comp	
22.	GW,VA,V	ePE	13:38:11		
22.	GW,VA	ePEZ	19:25:50		



RICARD OBSERVATORY  
 UNIVERSITY OF SANTA CLARA  
 SANTA CLARA, CALIF.



November 1952, contd.

23.	GM, VA, V	ePEZ iSE	18:40:55 18:41:16
25.	GM, V	ePZ eSE	21:59:44 22:00:04
27.	UM VA	ePN iSN	18:03:25 18:03:40
29.	GM	e E ME	08:39:03 08:47:19
29.	GM	iPZ eLZ	23:52:20 comp 23:59:50

by John A. Weber, SJ

12:40:55  
 12:41:16  
 21:59:44  
 22:00:04  
 18:03:25  
 18:03:40  
 08:39:03  
 08:47:19  
 23:52:20 comp  
 23:59:50

by John A. Weber, SJ



Ricard Observatory  
University of Santa Clara,  
Santa Clara, Calif.



December 1952.					
4.	GW, VA	ePENZ i E ME	03:59:37 04:06:19 04:18:42	D11	USCGS 52N 178E 100km
6.	GW, VA	ePNZ e Z MZ	10:54:17 11:05:22 11:24:53	D11	USCGS 8S 157E
7.	GW	ePZ eLZ	00:58:51 01:12:07	Comp	USCGS 53N 172 $\frac{1}{2}$ E
8.	GW	eLE	06:51:45		
11.	GW	ePZ eSE eLEZ	09:08:15 09:16:22 09:23:10	D11	USCGS 49N 155E 60km
12.	GW	eLE	01:01:35		USCGS 56 $\frac{1}{2}$ N 154W
17.	GW	ePZ e E eLEZ	23:22:07 23:52:29 24:03:42	D11	USCGS 54 $\frac{1}{2}$ N 24E
18.	GW	ME	09:47:03		USCGS 53 $\frac{1}{2}$ N 162E
22.	GW	MEZ	22:52:42		USCGS 54N 160 $\frac{1}{2}$ E
24.	GW	ME	09:47:00		USCGS 5 $\frac{1}{2}$ S 151 $\frac{1}{2}$ E
24.	GW	ePZ eSE eLEZ	18:52:48 19:04:42 19:21:16		USCGS 5 $\frac{1}{2}$ S 151 $\frac{1}{2}$ E
24.	GW	e Z MZ	22:12:00 22:22:44		USCGS 5 $\frac{1}{2}$ S 151 $\frac{1}{2}$ E
25.	GW	MZ	03:12:18		USCGS 5 $\frac{1}{2}$ S 151 $\frac{1}{2}$ E
28.	GW	MEZ	15:56:45		

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