

RICARD OBSERVATORY  
 UNIVERSITY OF SANTA CLARA  
 SANTA CLARA, CALIF.



January 1954.

12.	GW	i E cLE	14:48:45 15:18:44	
12.	GW, W	cPENN iSINN	23:34:40 23:35:02	USCGS 35.0N 119.1W
14.	GW	c E ME	01:02:11 01:05:40	
16.	GW	MEZ	22:52:45	USCGS 49N 129 $\frac{1}{2}$ W
20.	GW	c E MEZ	04:31:16 04:33:00	USCGS 8 $\frac{1}{2}$ N 103 $\frac{1}{2}$ W
26.	GW	ME	14:32:21	
28.	GW	ME	22:31:17	
31.	GW	ME	12:15:57	USCGS 52N 160E

by John A. Weber, SJ



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RICARD OBSERVATORY  
UNIVERSITY OF SANTA CLARA  
SANTA CLARA, CALIF.

February 1954.



1.	GW	iPEZ cSE cLE	01:19:01 01:29:06 01:42:47	USCGS 24 $\frac{1}{2}$ N 142 $\frac{1}{2}$ E
1.	GW	cPE cSE ME	04:28:00 04:30:46 04:36:10	USCGS 32 $\frac{1}{2}$ N 115 $\frac{1}{2}$ W
1.	GW	cPE cSE	13:09:15 13:10:54	USCGS 32 $\frac{1}{2}$ N 115 $\frac{1}{2}$ W
3.	GW	ME	16:16:07	USCGS 36 $\frac{1}{2}$ N 70E
5.	GW	cPZ cSE cLE	09:33:19 Di1 09:43:02 10:00:54	USCGS 4 $\frac{1}{2}$ S 153E
5.	GW	cSE cLE	15:29:25 15:35:29	USCGS 17 $\frac{1}{2}$ N 92 $\frac{1}{2}$ W 100km
7.	GW	cPEZ iSE	00:11:11 00:12:01	
7.	GW	c Z c oz MEZ	06:27:52 06:39:07 06:59:47	USCGS 15S 167 $\frac{1}{2}$ E 100km
11.	GW	iPZ cLE	00:43:43 01:22:20	USCGS 39 $\frac{1}{2}$ N 101E
15.	GW	ME	20:26:37	USCGS 6 $\frac{1}{2}$ S 81W
19.	GW	cLcz	01:03:22	USCGS 11 $\frac{1}{2}$ N 87 $\frac{1}{2}$ W
19.	GW	cPZ cSE cLE	19:20:32 19:31:09 19:46:30	USCGS 30S 178W
19.	GW	cPZ cLE	21:42:27 21:54:23	USCGS 12 $\frac{1}{2}$ N 87 $\frac{1}{2}$ W
20.	GW	cLE	02:25:56	
20.	GW	cPZ cSE cLEZ	18:53:44 Di1 18:58:45 19:02:30	USCGS 7S 124 $\frac{1}{2}$ E
20.	GW	c E cLEZ	22:06:53 22:09:49	USCGS 28S 177 $\frac{1}{2}$ W
28.	GW	cLEZ	01:14:12	USCGS 27N 131E

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SANTA CLARA, CALIF.



March 1954.

3.	GW	c EZ i EZ c E c E c E cLE	06:16:38 Dil 06:20:36 Dil 06:27:10 06:29:37 06:35:14 06:46:45	USCGS 5 $\frac{1}{2}$ S 142 $\frac{1}{2}$ E
3.	GW	<del>GW</del> ME	16:08:48	
9.	GW	c E c E c E ME	02:36:19 02:46:55 02:52:09 03:09:03	USCGS 1 $\frac{1}{2}$ N 30 $\frac{1}{2}$ W
9.	GW	c E c E ME	05:56:43 06:07:37 06:22:58	USCGS 50N 157E
14.	GW	ME	09:26:40	USCGS 16S 179W
16.	GW, W	cPEZ iSE	01:43:03 01:43:05	Felt East of San Jose, Calif.
19.	GW, W	cPZ iSEN	09:56:20 09:57:45	USCGS 33.3N 116.1"
22.	GW	c Z c Z i E	00:00:13 00:01:42 00:07:40	USCGS 24 $\frac{1}{2}$ N 95E
22.	GW	cLE	07:33:07	USCGS 27S 176 $\frac{1}{2}$ W
22.	GW	c E cLE	10:14:51 10:23:03	USCGS 27S 176 $\frac{1}{2}$ W
22.	GW	ME	17:27:16	USCGS 17N 95 $\frac{1}{4}$ W 60km
23.	GW	c E cSEZ	04:17:28 04:18:17	USCGS 33 $\frac{1}{2}$ N 116W
27.	GW, W	cPINZ iSENZ	15:43:52 15:44:06	
28.	GW	cPZ cSE ME	20:44:51 Dil 20:51:25 21:02:56	USCGS 52N 176E
29.	GW	iPZ iSE ME	06:28:48 Dil. 06:31:08 06:38:21	USCGS 37N 3 $\frac{1}{3}$ W 650km
30.	GW	c E cLE	16:52:18 16:54:27	USCGS 20N 155W
30.	GW	i E ME	18:53:12 18:55:08	USCGS 20N 155W
31.	GW	iPEZ cSE cLE	18:47:20 Comp 19:04:40 19:25:23	USCGS 13 $\frac{1}{2}$ N 58E

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April 1954.

1.	GW, W	cPNN iSNN	00:36:42 00:36:52	
1.	GW	ME	14:40:05	USCGS 19 $\frac{1}{2}$ N 67W 60km
1.	GW	cPZ c N cLE	18:29:03 Comp 18:37:19 18:45:38	USCGS 46 $\frac{1}{2}$ N 153 $\frac{1}{2}$ W
2.	GW	cPZ cLE	15:10:58 Comp 15:37:32	USCGS 28 $\frac{1}{2}$ S 177W 60km
5.	GW	cPZ cSTZ cLE	19:28:48 Dil 19:30:55 19:31:54	USCGS 48N 129W
10.	GW	cPZ cSE ME	15:05:36 Dil. 15:06:36 15:07:49	
10.	GW, W	iPTZ iSTZ	22:16:57 Comp 22:16:59	
11.	GW	c E ME	03:26:35 03:47:22	USCGS 7S 155E
11.	GW	c E ME	11:04:46 11:26:21	USCGS 37N 70 $\frac{1}{2}$ E 60km
17.	GW	cPTZ iST cLE	20:18:35 Comp 20:24:56 20:26:02	USCGS 51 $\frac{1}{2}$ N 179W
18.	GW	c E ME	03:42:22 03:52:55	USCGS 31S 178W
19.	GW	c E	08:06:17	
21.	GW, W	cPTNZ iSTNZ	02:36:52 02:37:01	
22.	GW, W	cPTNZ iSTNZ	18:14:21 18:14:26	
22.	GW, W	cPTNZ iSTNZ	18:20:34 18:20:40	
25.	GW, W	iPTNZ	21:33:41	Damage at Gilroy, Calif.
26.	GW	ME	09:42:39	USCGS $\frac{1}{2}$ S 91 $\frac{1}{2}$ W
27.	GW	ME	22:16:21	
29.	GW	cPZ iSTZ	11:52:22 Dil 11:55:12	USCGS 29 $\frac{1}{2}$ N 112 $\frac{1}{2}$ W
30.	GW	i E cLE	13:27:44 13:47:53	USCGS 39 $\frac{1}{2}$ N 22E

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May 1954.

3.	GW	cPZ cSE	15:38:52 15:47:00	USCGS 50 $\frac{1}{2}$ N 159 $\frac{1}{2}$ E
5.	GW	cLE	11:07:40	
5.	GW	cPE iSE	13:12:52 13:15:50	USCGS 27 $\frac{1}{2}$ N 112 $\frac{1}{2}$ W
13.	GW	iPZ iSE cLE	14:52:50 14:57:54 15:01:35	USCGS 17N 95 $\frac{1}{2}$ W
14.	GW	iPEZ ipPZ	22:50:51 Comp 22:51:47 Comp	USCGS 36N 137E 250km
19.	GW	cLE	23:48:56	USCGS 5S 151E
21.	GW	cLE	16:27:44	USCGS 56N 157W
23.	GW	cPZ cSE	23:53:36 23:54:10	USCGS 35N 118 3/4W
26.	GW	ME	10:40:30	
29.	GW	ME	23:07:22	
31.	GW	ME	16:51:56	USCGS 7S 119E

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June 1954

4.	GW	iPZ i E cLE	06:59:19 Comp 07:06:32 07:15:08	USCGS $1\frac{1}{2}$ S $91\frac{1}{2}$ W
4.	GW	cLE	16:08:29	
4.	GW	cLE	20:49:47	
6.	GW	cPZ c E cLE	17:08:53 Comp 17:15:18 17:36:50	USCGS $3\frac{1}{2}$ S $136\frac{1}{2}$ W
7.	GW	i E ME	10:37:47 10:59:45	USCGS $3\frac{1}{2}$ S $152\frac{1}{2}$ W 450km
17.	GW	cPTZ cSE cLE	01:48:24 Comp 01:53:25 01:56:37	USCGS 56N $159\frac{1}{2}$ W
18.	GW	ME	22:40:04	
19.	GW	cLE	22:16:42	USCGS $27\frac{1}{2}$ N $112$ W
22.	GW, W	cPTNZ iSTNZ	09:33:09 09:33:21	
22.	GW, W	iPTNZ iSTNZ	11:49:36 11:49:48	
22.	GW, W	cPTN iSEN	11:51:23 11:51:35	
22.	GW, W	iPTNZ iSTNZ	12:50:11 12:50:23	
22.	GW, W	iSTNZ	17:08:30	
28.	GW	ME	05:37:49	USCGS 59S $142$ W
30.	GW	ME	14:33:10	
30.	GW	c E cLE	15:26:06 15:27:03	USCGS 24N $109$ W

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July 1954.

2.	GW	c $\Pi$ o $\Pi$ cLE	03:09:31 03:12:06 03:32:04	USCGS 13 $\frac{1}{2}$ N 123 $\frac{1}{2}$ E
2.	GW, W	cPE iSEZ	10:44:51 10:45:35	USCGS 38.2N 116.4W
2.	GW	ME	21:04:46	
3.	GW	ME	22:06:59	USCGS 20 $\frac{1}{2}$ N 155 $\frac{1}{2}$ W
3.	GW	iPZ i Z i $\Pi$ i $\Pi$ cLE	22:50:27 22:52:22 22:53:45 23:04:21 23:30:21	D11 USCGS 6 $\frac{1}{2}$ S 106E 100km
4.	GW	c $\Pi$ ME	16:38:51 16:39:27	USCGS 44.9N 110.8W
6.	GW	c $\Pi$ c $\Pi$ cLE	04:24:03 04:25:39 04:42:38	USCGS 3S 148E
6.	GW	cPZ iSE ME	08:14:51 08:23:18 08:26:35	D11 USCGS 46 $\frac{1}{2}$ N 153 $\frac{1}{2}$ E 100km
6.	GW, W	cPZ iPE	11:14:12 11:14:14	Comp West USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
6.	GW, W	cPZ	11:50:40	USCGS 39N 118 $\frac{1}{2}$ W
6.	GW	iSE	12:55:45	
6.	GW	iSE	12:58:14	
6.	GW	iPE iSE	13:16:12 13:16:55	USCGS 29 $\frac{1}{2}$ N 119W
6.	GW	iSE	13:37:46	
6.	GW	iSE	14:57:12	
7.	GW	iSE	18:01:55	
8.	GW	cPE iSE	02:15:00 02:15:47	
8.	GW	iSE cSE iSE cPE iSEZ cSEZ	04:10:08 06:39:34 12:56:59 19:33:05 19:33:45 08:51:48	Nevada, aftershocks.
9.	GW	ME	13:06:31	USCGS 16S 174 $\frac{1}{2}$ W 100km
10.	GW	iSE iSE iSE	00:34:47 01:20:10 14:11:36	Nevada, aftershocks.
12.	GW	iSE iSE	10:18:53 16:07:10	Nevada, aftershocks.
13.	GW	c $\Pi$ cLE	08:30:59 08:46:00	USCGS 3S 151E
15.	GW	c $\Pi$ c $\Pi$ cLE	00:24:44 00:29:28 00:34:45	USCGS 13S 177W



RICARD OBSERVATORY  
UNIVERSITY OF SANTA CLARA  
SANTA CLARA, CALIF.



July Contd., 1954.

16.	GW	cLE	09:15:31	
16.	GW	ME	18:19:05	
17.	GW	iSE iSE	00:04:01 01:54:58	Nevada, aftershocks.
17.	GW	ME	08:33:21	
18.	GW	cE cLE	01:05:37 01:07:47	
18.	GW	ME	07:01:19	USCGS 55N 161 $\frac{1}{2}$ E
18.	GW	cPZ cSE cLE	09:19:22 09:28:49 09:43:13	USCGS 35 $\frac{1}{2}$ N 140 $\frac{1}{2}$ E
19.	GW	ME	20:06:17	
20.	GW	iSE iSE	00:14:01 01:43:44	Nevada, aftershocks.
20.	GW	ME	02:18:12	
20.	GW	ME	12:15:18	
23.	GW	ME	05:14:37	USCGS 31S 70 $\frac{1}{2}$ W 60km
26.	GW	cPZ cpPEZ cSE csSE ME	20:28:16 Comp 20:29:16 20:39:16 20:40:07 20:52:55	USCGS 12 $\frac{1}{2}$ N 44W
29.	GW	cPZ cSE ME	03:44:08 Comp 03:52:08 04:01:02	USCGS 49 $\frac{1}{2}$ N 158E
29.	GW, W	cPENZ iSENZ	08:51:48 08:51:59	
29.	GW	ME	09:33:24	
29.	GW	ME	22:42:47	USCGS 17 $\frac{1}{2}$ N 92 $\frac{1}{2}$ W
30.	GW, W	cPENZ iSENZ	02:01:13 Dil 02:01:59	
30.	GW	cPZ cE cE cLE	08:58:12 Comp 09:07:49 09:18:56 09:25:23	USCGS 36 $\frac{1}{2}$ S 97W
31.	GW	cPE cLE	01:24:05 01:48:32	USCGS 39N 104E
31.	GW	iSEZ iSE	17:26:01 17:33:12	Nevada, aftershock.

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August 1954.

1.	GW, W	cPTNZ iSTNZ	10:19:55 10:20:36	
4.	GW	ME	14:09:34	USCGS 54N 169W 200km
5.	GW, W	iSTEN	05:05:01	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
5.	GW	cPE cSE cLE	08:57:43 09:04:38 09:11:32	USCGS 52N 176W 60km
5.	GW	ME	15:54:48	
5.	GW	ME	00:28:52	
9.	GW	cPZ cSE cLE	19:26:13 Comp 19:34:15 19:42:20	USCGS 53N 161E 60km
10.	GW	ME	14:29:00	USCGS 32 $\frac{1}{2}$ S 178W
12.	GW, W	cPTN iSTN	12:50:20 12:50:26	
13.	GW	ME	00:35:44	
14.	GW	ME	21:08:07	
14.	GW	ME	23:49:15	
18.	GW	iPEZ ipPEZ iSE isSE ME	04:54:44 <sup>05 Dil</sup> Comp 04:54:44 Comp 05:03:46 05:04:15 05:15:58	USCGS 21 $\frac{1}{2}$ S 176W 150km
18.	GW	ME	15:27:07	
18.	GW	ME	23:12:11	
20.	GW, W	iSTEN	08:02:07	
20.	GW	ME	21:01:21	
21.	GW	ME	01:05:15	
21.	GW	ME	07:55:31	
21.	GW	ME	18:15:44	
21.	GW	cLE	23:24:47	USCGS 72N 13W
22.	GW	ME	10:43:15	USCGS 71N 14 $\frac{1}{2}$ W
23.	GW, W	cPE iSTEN	07:58:35 07:58:41	
24.	GW, W	cPTNZ iSTNZ	05:52:26 05:53:12	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
24.	GW	iSTEN	21:22:43	
25.	GW, W	cPE iSTEN	02:18:17 02:19:01	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
25.	GW	iSTNZ	22:22:59	
26.	GW	cPE iSE	12:57:26 12:58:02	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
26.	GW	cPE iSE	13:49:17 13:50:01	
26.	GW	cPE ME	19:30:44 20:00:52	USCGS 5S 153W
27.	GW			





RICARD OBSERVATORY  
 UNIVERSITY OF SANTA CLARA  
 SANTA CLARA, CALIF.

August 1954, contd.

27.	GW	cPZ oSE oLE	11:06:51 Comp 11:17:17 11:30:15	USCGS 24 $\frac{1}{2}$ N 143 $\frac{1}{2}$ W 100km
28.	GW	oSE	23:40:03	
29.	GW	oSE	03:11:47	
29.	GW, W	cPE iSE	03:42:03 03:43:02	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
28.	GW, W	cPE iSEN	03:59:12 04:00:08	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
30.	GW	cSE	19:13:50	
30.	GW	cSE	19:59:03	
31.	GW, W	cPE iSEN	22:20:38 22:21:18	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W

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Sept 1954.

1.	GW, W	cPEZ iSE	05:19:41 Comp 05:20:23	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
1.	GW, W	cPEZ cSE	11:30:28 Dil 11:31:14	USCGS 39 $\frac{1}{2}$ N 118 $\frac{1}{2}$ W
1.	GW	cSE	12:46:53	
1.	GW	ME	22:34:46	
2.	GW	cSE cSE cSE	07:55:18 10:48:55 13:28:48	Nevada, aftershocks.
2.	GW	c E ME	19:03:48 19:13:54	USCGS 10S 166E 100km
4.	GW	cPE cSE cLE	03:45:48 03:52:44 04:13:42	USCGS 3S 139 $\frac{1}{2}$ E 60km
4.	GW	ME	13:50:19	USCGS 11 $\frac{1}{2}$ S 166E
5.	GW	cPEZ cSE cLE	07:57:58 Dil 08:08:12 08:23:22	USCGS 19S 176E
5.	GW	cSE	20:17:48	Nevada, aftershock.
6.	GW	cPEZ cSE cLE	18:40:34 Comp 18:48:20 18:56:59	USCGS 51N 158E 60km
8.	GW	cSE	07:49:27	
9.	GW	cPEZ cSE cLE	01:17:46 Dil 01:28:31 01:47:34	USCGS 36N 1 $\frac{1}{2}$ E
9.	GW	cPE cSE	09:22:32 09:23:03	Nevada, aftershock.
9.	GW	cPE iSE	22:32:43 22:33:37	
10.	GW	c E ME	06:07:56 06:31:02	USCGS 36N 2E
12.	GW	cPE cSE cLE	08:04:17 08:13:42 08:17:40	USCGS 41N 143E
11.	GW	ME	00:03:23	
13.	GW	cPEZ cpPE ME	02:21:42 Dil 02:22:19 02:31:18	USCGS 21S 175 $\frac{1}{2}$ W 150km
14.	GW	cSE	16:20:45	
15.	GW	cLE	13:27:34	USCGS 26N 110W
15.	GW	cPEZ cpPEZ cSE cSE i EZ ME	18:07:05 Dil 18:09:05 Dil 18:10:07 18:12:54 18:16:12 18:19:11	USCGS 18S 178 $\frac{1}{2}$ W 600km
16.	GW	ME	04:53:01	
17.	GW	c E cLE	01:36:15 01:53:43	USCGS 4 $\frac{1}{2}$ N 153 $\frac{1}{2}$ E
17.	GW	cPEZ cpPEZ iSE	11:14:53 Comp 11:15:53 11:24:34	USCGS 20 $\frac{1}{2}$ S 177 $\frac{1}{2}$ W 250km





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



Sept 1954, contd.

20.	GW	ME	01:43:09	
23.	GW	c IE	22:01:32	USCGS 49N 156E
		c IE	22:08:28	
		ME	22:14:36	

October 1954.

1.	GW	cPE	03:07:53	USCGS 11S 166E
		cSE	03:17:25	
		ME	03:30:50	
3.	GW	cPEZ	02:59:43 D11	USCGS 10S 166E
		cSE	03:10:07	
		ME	03:23:43	
3.	GW	cPE	11:24:40	USCGS 60N 151W 100km
		iSE	11:26:00	
		ME	11:29:23	
17.	GW	cPEZ	22:59:19	USCGS 31½N 116½W
		iSE	23:00:54	
21.	GW	cLE	01:28:18	USCGS 31N 141E
21.	GW	cPZ	06:59:12 D11	USCGS 14N 20½W 60km
		cSE	07:04:30	
		cLE	07:11:17	
24.	GW	cPE	09:47:10	USCGS 31½N 116W
		iSE	09:47:53	
24.	GW	cSE	11:26:58	
31.	GW	cPE	23:26:13	USCGS 18½S 170E
		c IE	23:35:16	
		ME	23:53:12	

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

November 1954.

1.	GW	ME	21:18:36	USCGS 14N 92W 60km
2.	GW	cPE cSE ME	08:31:20 08:44:26 08:53:59	USCGS 7 $\frac{1}{2}$ S 119E
4.	GW	ME	16:40:08	
7.	GW	ME	05:55:30	USCGS 24 $\frac{1}{2}$ S 176W
10.	GW, W	cPE iSE	18:08:12 18:08:27	
12.	GW, W	iPEZ iSE	12:29:15 Comp 12:30:17	USCGS 31 $\frac{1}{2}$ N 116W
17.	GW	cPEN iSEN	07:25:43 07:26:44	
17.	GW	cLE	12:00:16	USCGS 31 $\frac{1}{2}$ N 116W
25.	GW	iPENZ iSENZ	11:17:42 Comp 11:18:54	USCGS 40 $\frac{1}{2}$ N 126W



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December 1954.

3.	GW	cLE	08:49:34	
4.	GW	oPZ oSE oLE	07:13:33 Comp 07:25:34 07:43:16	USCGS 5S 152 $\frac{1}{2}$ W
6.	GW	ME	03:40:08	USCGS 3 $\frac{1}{2}$ S 151W
10.	GW	cLE	13:27:37	USCGS 18 $\frac{1}{2}$ N 81 $\frac{1}{2}$ W
11.	GW	oPEN oSEN oLEN	13:07:46 13:22:38 13:26:10	USCGS 52 $\frac{1}{2}$ N 32W
16.	GW, W	oPENZ iSENZ	11:08:06 11:08:34	USCGS 39 $\frac{1}{2}$ N 118W
16.	GW	oPZ	11:12:30	Fallon, Nev. Aftershock.
16.	GW	iSZ iSZ iSZ iSN iSN iSN iSN iSN iSN iSN iSN iSN iSN iSN iSN iSN	12:46:55 14:18:53 15:11:38 16:02:00 16:29:02 16:41:25 18:24:59 19:12:55 19:41:48 20:26:57 20:42:31 21:37:31 21:44:46 21:48:13 21:50:33	Fallon, Nev. Aftershocks.
17.	GW	oPENZ iSENZ	07:09:07 07:09:12	Felt San Francisco to San Jose.
17.	GW	iSENZ iSENZ iSENZ iSENZ iSEN oPEN iSENZ	07:34:28 10:17:20 10:29:22 10:54:37 16:00:01 20:28:20 20:28:59	Fallon, Nev. Aftershocks.
18.	GW	iSEN oPEN iSEN iSEN iSN	01:07:55 01:46:52 01:47:38 03:43:06 22:25:05	Fallon, Nev. Aftershocks.
19.	GW	iSN iSN iSN iSN iSN	01:01:32 02:04:18 04:01:58 05:03:22 06:31:12	Fallon, Nev. Aftershocks.
19.	GW	oPENZ opPE iSEN csSE	10:55:26 10:36:31 10:45:10 10:45:49	USCGS 23S 66 $\frac{1}{2}$ W 250km
20.	GW	iSENZ iSENZ  oPENZ iSENZ	02:29:32 15:50:51  17:33:05 17:38:55	
21.	GW	cLE	12:41:17	USCGS 3 $\frac{1}{2}$ S 145 $\frac{1}{2}$ W
21.	GW, W	iPENZ	19:57:27 Dil	USCGS 41N 124W
22.	GW	iSENZ	10:41:07	





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December 1954, Contd.

26.	GW	c IE ME	04:16:21 04:22:49	USCGS 30N 141 $\frac{1}{2}$ W 200km
28.	GW	cSE cLE	01:25:53 01:42:31	USCGS 5S 152 $\frac{1}{2}$ W
28.	GW	ME	08:01:47	
29.	GW	c IE cLE	12:09:27 12:23:45	
30.	GW	cPEN iSMN	09:17:33 09:18:32	USCGS 41N 124W
30.	GW	cPENZ cSE cLEN	11:39:22 Comp 11:45:12 11:47:39	USCGS 53N 168W 60km

by John A. Weber, SJ

