

RICARD OBSERVATORY  
 UNIVERSITY OF SANTA CLARA  
 SANTA CLARA, CALIF.



January 1953.

5.	GW	iPEZ iSEZ eLEZ	07:57:10 08:04:12 08:11:42	Comp	USCGS 54N 170E
5.	GW	ePEZ eSEZ eLEZ	10:16:51 10:24:55 10:55:40	Comp	USCGS 49N 156E
7.	GW	eLEZ	14:50:20		USCGS 5 $\frac{1}{2}$ S 150 $\frac{1}{2}$ E
11.	GW	ePEZ e EZ i E MEZ	22:59:52 23:04:43 23:06:28 23:09:29	Dil	USCGS 65N 133W
12.	GW	iPEZ eSEZ eLE	17:53:54 17:41:30 17:50:14	Dil	USCGS 49 $\frac{1}{2}$ N 156E 60km
13.	GW	e E ME	02:10:44 02:12:13		USCGS 20N 108W
15.	GW	MEZ	12:21:03		USCGS 19N 156W
19.	GW	ME	01:13:59		
19.	GW	ME	05:29:19		USCGS 42N 143E
20.	GW	ME	18:31:59		
21.	GW	ME	02:11:20		USCGS 50N 156E 60km
24.	GW	ePE	10:01:19		
25.	GW	e E ME	20:07:14 20:18:56		
27.	GW	e E eLE	03:50:23 03:56:46		
30.	GW	ePE eSE eLEZ	21:59:08 22:09:21 22:24:38	Comp	
31.	GW	ME	16:19:51		

by John A. Weber, SJ



RICARD OBSERVATORY  
UNIVERSITY OF SANTA CLARA?  
SANTA CLARA, CALIF.

February 1953.



3.	GV	e EZ	14:51:29	
6.	GV	ePZ eSE eLE	13:24:27 13:33:09 13:43:00	USCGS 42 $\frac{1}{2}$ N 143 $\frac{1}{2}$ E
7.	GV	eSE eLE	18:41:11 18:51:57	USCGS 49N 156E
9.	GV	e E MEZ	21:47:07 21:52:05	USCGS 52 $\frac{1}{2}$ N 169W
10.	GV	e E MEZ	08:15:10 08:18:10	USCGS 52N 169W
12.	GV	e E ME	01:44:56 01:46:54	
12.	GV	ME	04:48:30	USCGS 65N 133W
12.	GV	ME	08:09:34	
12.	GV	ePE eLE	08:36:48 09:08:42	USCGS 35N 54 $\frac{1}{2}$ E
13.	GV, W	ePENZ iSENE	22:10:09 22:10:17	
17.	GV	ePE eSE eLE	22:00:57 22:10:21 22:24:46	USCGS 18 $\frac{1}{2}$ N 146E 60km
16.	GV	ME	10:38:28	USCGS 8 $\frac{1}{2}$ N 83W
19.	GV	e EZ eLEZ	15:50:24 16:08:19	USCGS 0, 18W
25.	GV	ePEZ eSE eLEZ	21:22:25 21:26:24 21:29:17	Comp USCGS 56N 156 $\frac{1}{2}$ W 60km
26.	GV	iPEZ eSE eLEZ	11:66:02 12:05:17 12:15:53	D11 USCGS 11S 164 $\frac{1}{2}$ E
26.	GV	eLE	16:40:33	
28.	GV	eLE	04:37:29	
28.	GV	eLEZ	22:06:08	

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RICARD OBSERVATORY  
UNIVERSITY OF SANTA CLARA  
SANTA CLARA, CALIF.



March 1955.

3.	GW	iPZ e E eLEZ	11:39:52 Dil. 11:50:18 12:06:53	USCGS 20S 169E
5.	GW	iPEZ iSE eLEZ	21:11:06 Comp 21:18:54 21:27:42	USCGS 51N 158E 60km
6.	GW	ME	04:47:25	USCGS 16S 177E
6.	GW	ME	07:10:50	USCGS 58 $\frac{1}{2}$ N 156 $\frac{1}{2}$ W 100km
9.	GW	ePZ eSEZ eLEZ	10:16:41 10:28:27 10:44:14	USCGS 4 $\frac{1}{2}$ S 153 $\frac{1}{2}$ W
10.	GW	MEZ	06:40:35	USCGS 18 $\frac{1}{2}$ S 168E
14.	GW	MEZ	17:49:58	
16.	GW	eLEZ	05:35:12	
16.	GW	ePEZ iSEZ	08:52:16 08:52:23	
16.	GW	ME	09:05:09	USCGS 18S 168E
17.	GW	e E ME	13:22:54 13:31:58	USCGS 50 $\frac{1}{2}$ N 156 $\frac{1}{2}$ E
18.	GW, V	e E i E ME	19:31:51 19:33:16 19:53:53	USCGS 40N 27 $\frac{1}{2}$ E
19.	GW, W	iPEZ iSE	08:37:56 C jnp 08:45:03	USCGS 14N 61W 200km
22.	GW, V	ePIN iSINZ	05:19:39 05:20:17	
23.	GW	e E MEZ	12:52:57 12:56:05	USCGS 52 $\frac{1}{2}$ N 169W
25.	GW	e E eLE	06:07:16 06:10:19	USCGS 52 $\frac{1}{2}$ N 169W

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SANTA CLARA, CALIF.

April 1953.

2.	GM	ePE eLE	04:19:35 04:58:24	USCGS 5S 151 $\frac{1}{2}$ E 60km
3.	GM	e E ME	04:49:53 04:58:32	USCGS 15 $\frac{1}{2}$ S 172W
4.	GM	ME	06:27:11	USCGS 36 $\frac{1}{2}$ N 141E
6.	GM	e E ME	00:00:59 00:27:37	
14.	GM	iPEZ iSEZ ME	13:39:13 Comp 15:47:12 14:00:04	USCGS 7 $\frac{1}{2}$ S 71 $\frac{1}{2}$ W 650km
15.	GM	ME	00:01:06	
15.	GM	ME	01:45:12	USCGS 49N 156E
16.	GM	ME	08:23:28	
17.	GM	e E eME	00:21:21 00:34:36	USCGS 5S 77W
17.	GM	e E eLE	11:52:12 11:59:40	
18.	GM	ME	04:24:13	
18.	GM	e E MEZ	23:09:45 23:10:45	
19.	GM	e E e E eLE	23:02:05 23:05:53 23:08:28	USCGS 50 $\frac{1}{2}$ N 179W
30.	GM	ME	11:47:05	
23.	GM	ePE ePZ eLEZ	16:38:15 16:38:33 17:05:31	
29.	GM	e E eLEZ	03:04:46 04:11:57	
30.	GM	ePEZ eSE eLEZ	06:31:29 D11 06:31:22 07:06:33	USCGS 20 $\frac{1}{2}$ S 170E

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 UNIVERSITY OF SANTA CLARA  
 SANTA CLARA, Calif.

May 1953.



1.	GW	ME	00:50:42	
2.	GW	e E ME	18:55:29 19:07:13	
4.	GW	e E ME	11:46:04 11:57:15	USCGS 53 $\frac{1}{2}$ N 161E
4.	GW	eLE	18:00:24	
4.	GW	eLE	21:02:56	
6.	GW	ePEZ eSE eLEZ	17:29:29 17:39:51 17:58:02	Dil USCGS 36 $\frac{1}{2}$ S 73W 100km
11.	GW	ePEZ eSE e E eLE	11:29:52 11:39:55 11:44:15 11:58:41	Dil USCGS 21 $\frac{1}{2}$ S 169E
15.	GW	e E eLE	12:27:22 12:36:39	
13.	GW	ME	01:52:53	
15.	GW	e E ME	07:47:47 07:49:16	
14.	GW	e E eLE	18:53:40 18:54:59	USCGS 50N 130W
18.	GW	ePEZ eSZ MLZ	08:22:55 08:37:24 08:45:03	USCGS 28 $\frac{1}{2}$ N 44W
19.	GW	ePEZ eSE ME	05:20:52 05:28:52 05:57:50	Dil USCGS 51N 159 $\frac{1}{2}$ E
20.	GW	e E eLE	08:25:04 08:31:19	
20.	GW	eLE	23:21:24	USCGS 50N 130W
21.	GW	MLZ	02:15:54	
21.	GW	e E eLE	12:55:58 12:56:55	
23.	GW, V	ePENZ iSENZ	21:16:29 21:16:57	
24.	GW	ME	02:26:54	

18:50:15  
 19:07:13  
 19:14:12  
 19:20:37  
 19:28:50  
 19:37:50  
 19:46:10  
 19:54:10  
 20:02:30  
 20:10:30



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May 1953, contd.

25.	GM, W	ePEN iSENZ	00:25:38 00:25:52	
25.	GM, W	ePEZ iSE	03:25:18 03:26:09	USCGS 34 <sup>th</sup> N 119W
26.	GM	eSE ME	02:03:26 02:15:30	USCGS 42N 142 <sup>1</sup> / <sub>2</sub> E 60km
27.	GM	ME	19:01:11	
28.	GM, W	ePEN iSEN	03:51:47 03:52:17	
29.	GM	ME	06:56:29	
31.	GM	e E ME	05:26:28 05:57:28	USCGS 9S 118E 100km
31.	GM	ePEZ eSE eLEZ	20:07:57 Dil 20:14:57 20:24:07	USCGS 20N 70 <sup>1</sup> / <sub>2</sub> W

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13:40:13  
 13:03:50  
 19:14:57  
 19:35:27  
 07:58:28  
 07:58:28  
 07:58:28  
 07:58:28  
 07:58:28  
 07:58:28



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 SANTA CLARA, CALIF.



June 1953,

7.	GW	e E eSE eLE	12:39:49 12:45:44 12:52:52	USCGS 20N 70W
7.	GW	ME	23:31:16	
8.	GW	ME	05:36:42	
8.	GW	eSE ME	11:57:46 12:06:50	USCGS 52N 159 $\frac{1}{2}$ E
9.	GW	ME	01:03:58	
9.	GW	ME	11:04:10	
10.	GW	ME	19:17:42	USCGS 4S 128E
13.	GW, V	ePEN iSEN	00:01:21 00:01:30	
14.	GW, V	ePE iSE	04:18:58 04:20:08	USCGS 53N 115 $\frac{1}{2}$ W
22.	GW, V	ePEN iSEN	15:25:18 15:25:52	
23.	GW	eSE eLE	14:10:05 14:19:07	USCGS 51N 157 $\frac{1}{2}$ E
25.	GW	ePE eSE eLE	11:05 11:11:43 11:12:42	USCGS 8 $\frac{1}{2}$ S 123 $\frac{1}{2}$ E

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July 1953.

1.	GW	ePE eSE ME	03:09:15 03:17:54 03:25:55	USCGS 20 $\frac{1}{2}$ N 157E 60km
2.	GW	iPE	09:09:30	USCGS 42N 144 $\frac{1}{2}$ E
25.	V	ePEN iSEN	16:15:02 16:15:14	
26.	GW	ePE eSE ME	17:04:17 17:14:09 17:29:32	USCGS 17 $\frac{1}{2}$ N 145E 200km
29.	GW	ePE eSE eLE	18:22:02 18:27:56 18:55:40	USCGS 15N 90 $\frac{1}{2}$ W
29.	GW	eSE eLE	23:40:57 23:51:48	USCGS 16S 175W
30.	GW	ME	06:45:18	
31.	GW	i E ME	00:05:59 00:25:59	USCGS 19N 145E 200km

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HICARD OBSERVATORY  
 UNIVERSITY OF SANTA CLARA  
 SANTA CLARA, CALIF.



August 1953.			
1.	GW	ME	00:02:47
2.	GW	e E ME	17:38:48 18:00:46
6.	GW	ePE	11:22:51
9.	GW	MEZ	06:02:43
9.	GW	MEZ	08:27:20
8.	GW	ePEN iSEN	16:35:43 16:35:45
11.	GW	ePEZ e E ME	03:50:05 03:17:55 03:24:18
12.	GW	ePZ e E e E eLE	09:37:36 comp 09:48:06 10:02:44 10:10:56
12.	GW	ePEZ eSE eLE	17:05:39 Comp 17:13:31 17:24:43
13.	GW	eLE	06:17:44
13.	GW	ePEZ eSE eLE	09:36:11 Dil 09:46:18 10:03:53
22.	GW	ME	08:12:14
24.	W	ePEN iSEN	08:40:00 08:40:03
24.	GW	ePE eSE eLE	13:26:49 13:32:32 13:39:35
25.	GW	ePZ eSE eLEZ	02:18:15 02:28:15 02:43:44
31.	GW	eSE ME	08:09:47 08:19:11

USCGS 22S 68 $\frac{1}{2}$ W 150km

USCGS 22S 175W

USCGS 53N 167W

USCGS 21 $\frac{1}{2}$ S 170E 150km

USCGS 14 $\frac{1}{2}$ N 91W 100km

USCGS 5S 152E

USCGS 53 $\frac{1}{2}$ N 160E 60km

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RICARD OBSERVATORY  
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SANTA CLARA, CALIF.

September 1953.



3.	GW	e E	17:56:50	
4.	G W	iP EZ iSEZ eLE	07:32: 54 Di1 07:40:49 07:49:15	USCGS 50N 156½E 60km
4.	GW	ePE eSE ME	14:19:59 14:30:16 14:48:47	USCGS 32S 71W
5.	GW	ePEZ iSEZ eLEZ	19:08:12 Di1 19:15:15 19:25: 26	USCGS 51N 157E
7.	G W	e E MEZ	04:31:16 04:46:18	USCGS 41N 33E
10.	GW	ePZ eSE eLE	04:24:29 04:39:19 05:08:10	USCGS 32E 35N
12.	GW	ePE eSE eLE	18:56:12 18:57:15 18:58:20	
14.	GW	iPEZ eSE eLE	00:38:44 Di1 00:48:31 01:02:46	USCGS 18S 178E
16.		e PEZ eSE MEZ	02:00:13 02:09:39 02:21:38	USCGS 15S 174W
16.	GW	e E e E eLE	18:01:46 18:04:32 18:05:46	
17..	GW	ePZ eSE eLE	21:23:30 21:33:16 21:42:59	USCGS 20S 174W
18.	GW	ME	23:00:14	
22.	GW ,W	ePE iSE	07:37:33 07:37:39	
23.	GW	ePEZ epPEZ iS E eLEZ	02:24:24 Di1 02:24:39 02:32:19 02:41:33	USCGS 50N 156E 60km
25.	GW	ME	12:35:58	



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September 1953, contd.

25.	GW	e E e E ME	14:16:42 14:20:18 14:23:16	USCGS 28N 148E
26.	GW	ePZ eSE eLE	01:12:17 D11 01:20:10 01:28:43	USCGS 50N 157E 60km
26.	GW, F	ePEZ iSE	03:35:20 03:35:53	USCGS 39.6N 119.8W
26.	GW	ME	20:20: 27	USCGS 3S 148.5E
27.	GW	ME	06:41:31	USCGS 14N 58W
29.	GW	ePE iSE eLE	01:53:35 02:02: 14 02:14:16	USCGS 36.5S 177E
30.	GW, F	iPEZ iSE eLE	23:08:45 Comp 23:12:17 23:13:28	USCGS 22N 107.5W

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RICARD OBSERVATORY  
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 SANTA CLARA, CALIF.



October 1953.

2.	GW	ME	02:07:56	
5.	GW	ePEZ iSE eLE	04:41:11 04:48:41 04:57:37	USCGS 53.5N 160.5E
5.	GW	eS E eLE	23:42:05 24:02:36	USCGS 9S 152.5E
6.	GW	ePE o E e E eLE	22:02:10 22:08:19 22:12:14 22:19:29	USCGS 3.5S 151E
7.	GW,W	iSE	15:01:15	
11.	GW	eSE eLEZ	13:26:31 13:35:33	USCGS 50N 155½E 60km
13.	GW,W	e E MEZ	08:58:07 08:58:55	USCGS 30N 113½W
16.	GW	e E eLE	09:59:23 10:08:47	
17.	GW	e E ME	21:24:26 21:35:27	USCGS 52N 159E
20.	GW,W	ePEN iSFN	23:34:28 23:34:36	
24.	GW	e E eLE	23:43:33 24:02:20	USCGS 35½S 179½W
25.	GW	e E eLE	07:39:37 07:55:36	
28.	GW	eLE	10:02:25	
2 .	GW ,W	ePEN iSFN	23:59:03 23:59:13	

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RICARD OBSERVATORY  
 UNIVERSITY OF SANTA CLARA  
 SANTA CLARA, CALIF.



November 1953.

4.	GW	iPZ eSE eLE	04:01:41 Comp 04:12:59 04:24:42	USCGS 12 $\frac{1}{2}$ S 166 $\frac{1}{2}$ E
4.	GW	ME	09:28:24	
4.	GW	eLE	13:05:40	USCGS 12S 166 $\frac{1}{2}$ E
5.	GW	ME	04:49:00	
7.	GW	ME	16:42:40	
9.	GW	iPZ iS E eLE	17:35:22 17:42:51 17:51:53	USCGS 52 $\frac{1}{2}$ N 159E 60km
10.	GW	iPZ i E ME	23:50:10 23:57:58 24:06:59	USCGS 50 $\frac{1}{2}$ N 157E 60km
13.	GW	e EZ	19:54:33	USCGS 13S 166E
17.	GW, F	iPZ iS E MEZ	13:36:51 Comp 13:41:55 13:50:20	USCGS 14N 92E
24.	GW, W	ePZ iSz	05:47:21 05:48:45	USCGS 36N 117E
25.	GW, W	iPEZ eSZ eLZ	18:00: 18:10:05 18:20:16	USCGS 34N 141E
26.	GW	ePZ eSE eLE	00:15:12 Comp 00:25:14 00:35:48	USCGS 34N 141E
26.	GW	ePZ eSE eLEZ	08:25:59 Comp 08:35:56 08:48:24	USCGS 34N 141E
27.	GW	eLE	23:38:05	USCGS 17 $\frac{1}{2}$ S 176E

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RICARD OBSERVATORY  
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SANTA CLARA, CALIF.

December 1953.



2.	GW	iPz i E i E i E cLEZ	04:42:29 Dil 04:49:02 04:51:15 04:56:33 05:09:14	USCGS 3 $\frac{1}{2}$ S 141 $\frac{1}{2}$ E
4.	GW	cPz iSEZ	04:57:58 15:00:30	USCGS 49 $\frac{1}{2}$ N 129W
7.	GW	iPEZ ipPEZ cSE	02:17:27 Comp 02:18:02 02:27:08	USCGS 22S 68 $\frac{1}{2}$ W
8.	GW	ME	02:45:34	USCGS 29 $\frac{1}{2}$ N 142E
12.	GW	c Z c E ME	08:32:45 08:34:24 08:35:26	USCGS 49N 139 $\frac{1}{2}$ W
12.	GW	iPEZ cSE cLZ	17:41:12 Comp 17:48:57 17:59:16	USCGS 3 $\frac{1}{2}$ S 81W
14.	GW	ME	09:03:21	
15.	GW	cPE cSE	12:45:45 12:46:38	
16.	GW, W	cPE iSE	00:05:37 00:05:43	Watsonville, Calif. Area.
16.	GW, W	cPE iSE	10:54:37 10:54:50	Fresno, Calif. Area.
16.	GW, W	cPENZ iSEnz	23:09:49 Comp 23:09:55	
17.	GW, W	cPEN iSEN	04:50:39 04:50:47	
17.	GW, W	cPEN iSEN	05:13:22 05:13:30	
17.	GW, W	cPEN iSEN	05:39:50 05:39:57	
17.	GW, W	cPEN iSEN	06:54:56 06:55:03	
17.	GW	ME	23:10:26	
19.	GW	ME	13:54:23	
20.	GW	ME	10:03:51	
24.	GW	cPE cSE	02:34:15 02:51:08	
24.	GW	ME	23:17:51	
25.	GW	iPz cSE cLE	02:01:18 Comp 02:08:46 02:17:27	USCGS 52N 159 $\frac{1}{2}$ E
28.	GW, W	cPENZ iSEnz	01:32:55 01:33:03	

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