

No. 1

January, February, March 1953

Date	G.C.T.	Lat.N.	Long.W.	Q	M	Remarks
January						
1	03:05:52	35 00	119 05	C	3.6	Near Wheeler Ridge
1	17:36.9	32.6	117.1	D	3.0	Near Tijuana; felt, El Cajon
	Grossmont area (BSSA)					
3	00:27:20	35 18	118 32	C	3.0	Near Caliente
3	12:38:47	35 10	118 50	B	2.8	Near Arvin
3	13:56:35	35 05	118 58	C	2.7	Near Wheeler Ridge
5	10:29:59	35 26	118 47	B	2.9	Kern River Gorge
6	21:53:41	34 00	119 01	B	3.4	Near Wheeler Ridge
7	10:24:50	35 19	118 40	C	2.7	Northwest of Caliente
9	11:52:06.4					
		35 17	118 35	C	3.9	IV at Tehachapi (USCGS)
10	00:39:32	27.5	114.4	D	5.3	Foreshock of Jan. 10, 02:54, Baja California
10	00:41:33	35 20	118 33		2.9	Near Caliente
10	02:52:31	27.5	114.4	D	5.7	Sierra Vizcaino, Baja California. IV at San Diego, El Cajon, Mt. Helix (USCGS)
10	22:17:38	35 14	118 36	A	4.0	Near Bear Mountain
11	08:45.0	34.3	117.0	D	2	Small. North of Big Bear
12	04:54:30.5					
		35 22	118 32	B	3.2	Walker Basin.
14	23:50:52	35 23	118 42	B	3.2	Caliente area
15	00:59:02	35 18	118 32	B	3.0	Near Caliente
15	07:22.9	35 ?	118 ?	D	2.6	IV at Tehachapi (USCGS)
15	10:31:43	31.5	116.2	D	4.0	East of Santo Tomas, Baja California
15	14:20:04	35 28	118 48	C	3.1	Kern Gorge
15	17:39:39	35 01	119 01	C	3.1	Near Wheeler Ridge
16	00:43:25	35 01	119 01	C	3.1	Near Wheeler Ridge
16	03:42:34	34 03	116 58	C	3.0	East of Yucaipa
16	17:57:50	34 58	118 58	C	2.8	Near Fort Tejon
17	05:46:21	35 16	118 32	C	3.0	Near Caliente
17	09:08:55	35 06	118 42	C	3.0	Near Tejon Ranch
18	16:15:09	35 19	118 30	C	3.2	East of Caliente
18	23:24:15	35 18	118 32	B	3.1	Near Caliente
19	01:10	27.5	114.4	D	5.3	Aftershock of Jan. 10, 02:52:31
19	01:12:34	35 18	118 35	C	3.6	Near Caliente. Light tremor, Tehachapi (USCGS)
19	14:47:22	35 00	118 47	C	3.2	Near Tejon Ranch (USCGS)
20	08:13:22	35 19	118 30	A	4.0	East of Caliente. IV at Tehachapi/
20	15:03:07	35 05	118 25	C	2.7	Near Monolith
21	01:05:08	34 58	118 57	B	3.1	Near Wheeler Ridge
21	03:30:37	35 19	118 30	B	3.0	East of Caliente
23	06:35:57	33 59	117 15	C	2.4	East of Riverside
23	14:37:40	34 30	116 30	C	3.3	Northeast of Old Woman Springs. Preceded by a smaller shock near Caliente
25	12:13:37	35 25	118 50	C	3.0	Near Bakersfield
25	12:23:11	34 07	117 20	B	2.7	Near San Bernardino. Felt at San Bernardino. reported time 3:30 a.m. (Press, BSSA)
27	04:12:59	36 20	118 10	C	3.0	West of Cartago
27	19:40:29	34 11	117 05	C	2.8	Northeast of Highlands, h = 25 km.
27	20:31:40	35 03	119 07	C	3.0	Between Wheeler Ridge and Maricopa
30	13:11:40	35 22	118 35	C	3.9	Walker Basin
30	15:21:10	35 10	119 02	C	3.4	Near Kern Lake
31	03:51:53	35 06	118 22	B	3.3	Near Monolith
31	07:51:36	35 18	118 39	C	3.1	Near Caliente
31	09:19:03	35 06	118 22	C	3.3	Near Monolith
31	22:27:27	35 20	118 32	C	3.4	Near Caliente

## February

1	00:51:55	35 18	118 42	C	3.1	West of Caliente. IV at Tehachapi/ (USCGS)
1	15:00:28	35 20	118 40	C	2.9	West of Caliente
1	21:48:29	35 19	118 30	B	3.2	IV at Tehachapi (USCGS). East of Caliente
2	12:39:34	33 23	116 26	B	3.1	Northwest of Clark Dry Lake
3	14:50.2	35.5	121.1	D	4.4	Near Cambria. V at Atascadero, Creston, Morro Bay, Pleyto, Santa Margarita; IV at Bryson, Cayucos, Paso Robles (USCGS)
4	04:36:16	33 24	116 34	C	4.3	Northeast of Warner Springs. V at El Cajon, Campo, Miramar, Palomar, Warner's; IV at Borego (USCGS).

International  
Seismological  
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Feb  
1953



4	06:59:51	35 21	118 38	B	3.9	North of Caliente
5	00:02:13	34 23	116 38	B	3.1	Old Woman Springs
5	02:54.2	35.9?	121.0?	D	2.8±	IV at Bryson (USCGS)
5	04:05:24	35 25	118 40	C	3.0	North of Caliente
5	06:30:38	35 20	118 40	C	3.1	Near Caliente. IV at Tehachapi
6	17:24:05	34 10	117 36	C	2.5	Near Alta Loma
7	00:03:26	37 25	118 10	C	3.9	East of Laws. IV at Laws (USCGS)
7	22:57:49	34 04	117 25	B	2.9	Near Fontana
8	20:43:15	35 08	118 20	D	2.7	Near Monolith?
9	09:37:59	35 19	118 30	B	3.0	East of Caliente
9	14:45:54.5					(USCGS)
		35 19	118 37	B	3.8	Near Caliente. IV at Tehachapi/
11	05:25:10	35 20	118 47	C	3.0	East of Bakersfield
11	09:16:09	35 20	118 40	C	3.0	Northwest of Caliente
11	10:03:21	35 19	118 37	C	3.1	Near Caliente
11	17:15:39	34 03	117 34	B	3.0	West of Mira Loma (h = 10 km±)
12	13:04:04	35 20	118 35	C	2.8	Near Caliente
12	13:32:33	35 05	119 05	C	2.8	North of Wheeler Ridge
13	11:53:54	35 20	118 40	C	2.9	Northwest of Caliente
14	01:16:44	35 20	119 37	B	3.0	Near Caliente
14	01:57:32	33 50	115 45	C	3.0	Pinto Basin
14	10:08:40	35 10	118 50	C	2.9	Near Wheeler Ridge
14	22:06:34	35 19	118 35	B	2.9	Near Williams Ranch
15	03:14:52	34 11	117 26	C	2.9	North of Fontana
15	08:11:56	35 02	119 08	C	3.3	Near Wheeler Ridge
15	21:00:41	35 16	118 34	B	3.8	Near Caliente
15	21:04:21.5					
		35 17	118 33	B	3.6	Near Caliente
16	01:29:12	35 19	118 30	C	3.2	East of Caliente
16	07:55:05	35 00	119 08	B	3.1	Near San Emigdio Ranch
16	20:48:09	35 22	118 30	B	2.9	Northeast of Caliente
17	05:42:16	35 03	116 47	B	3.3	Northeast of Calico
17	06:50:00	35 19	118 36	C	3.0	Near Caliente
17	09:04:26	35 13	118 40	B	3.1	Near White Wolf
17	10:04:50	35 08	116 35	C	2.9	North of Manix
17	11:56:57	35 05	118 55	C	2.9	Near Wheeler Ridge
18	04:45:05	35 09	118 35	C	2.9	West of Tehachapi
18	17:45:59	35 22	118 53	C	2.9	Near Bakersfield
19	08:12:06	35 18	118 3π	A	4.4	USCGS: Arvin V; Edison-IV; Tehachapi IV; Fillmore II; Jawbone III.
19	08:40:20	35 18	118 32	B	3.0	East of Caliente
20	03:51:08	35 20	118 40	C	3.5	Northwest of Caliente
20	15:23:47	34 28	116 45	B	3.4	Near Old Woman Springs
20	21:18:25	33 17	116 22	C	3.9	Near Borego. USCGS: Borego Valley, Santa Ysabel, IV; felt at Warner's
20	23:47:01	35 49	118 01	B	3.3	North of Walker Pass
21	01:14:11	35 00	119 01	B	3.2	Near Wheeler Ridge
21	20:35:48	35 00	118 50	B	3.3	East of Wheeler Ridge
21	20:51:12	35 59	118 50	B	2.8	Off Point Dume
21	22:31:57	35 20	118 40	C	3.0	Northwest of Caliente
21	22:52:37	35 01	117 00	C	2.9	North of Barstow
22	13:43:50	35 08	118 31	A	3.1	Cummings Valley
23	17:11:07					
		35 22	118 53	B	3.4	East of Bakersfield "Sharp shock" Bakersfield steam plant, Magunden Power House.
24	08:38:53	35 01	118 43	B	3.1	Tejon Ranch
24	21:28:52	35 28	118 48	C	3.1	Kern River Gorge
25	08:03:03	35 18	118 32	B	3.6	East of Caliente
26	03:22:01	35 27	118 48	C	2.8	Kern River Gorge. Felt Bakersfield, Pacific Gas and Electric (USCGS)
26	03:38:14	35 49	118 00	B	3.5	North of Walker Pass
26	04:23:00	35 29	118 48	B	3.7	Kern River Gorge. V at Kern Canyon Powerhouse, Pacific Gas and Electric (USCGS)

March

1	07:26:00	35 22	118 31	B	3.0	Northeast of Caliente
1	19:26:57	35 02	119 07	B	3.2	North of San Emigdio Ranch
2	01:41:21	34 58	118 58	C	2.9	Near Fort Tejon
3	07:02:32	35 00	118 58	C	3.5	Near Wheeler Ridge
4	01:42:50	35 10	118 42	B	3.1	Near Bear Mountain
4	16:18:10	35 25	118 41	B	3.0	South of Kern River Gorge
4	19:52:21	35 04	118 26	B	3.7	Near Tehachapi. Felt in the Los Angeles area. USCGS: V at Tehachapi
4	21:40:03	33 20	115 40	D	3.0	Westmorland, IV (USCGS)



1953 (continued)

March



5	12:21:33	33 45	118 29	B	3.5	Near Palos Verdes. VI
	two walls in Hermosa (BSSA). Felt: Palos Verdes, Redondo, Westwood, Manhattan, El Segundo, Inglewood, Southeast Los Angeles (USCGS)					
5	13:43:55	33 45	118 29	C	2.6	Near Palos Verdes
7	19:03:56	35 08	118 40	C	3.1	Near Cummings Valley
8	05:42:15	35 02	119 00	B	3.4	Near Wheeler Ridge
8	09:13:08	35 00	118 40	B	3.4	Tejon Ranch
10	12:20:54	35 20	118 40	C	2.9	Northwest of Caliente
10	19:50:49	35 28	118 48	C	2.7	Kern River Gorge. Reported felt (USCGS)
11	02:16:41	35 24	118 38	A	3.9	North of Caliente. Bakersfield (Pacific Gas and Electric) light shock (USCGS)
11	02:51:17	35 03	116 50	C	3.1	North of Calico
11	04:56:03	35 19	118 30	C	3.1	East of Caliente
11	20:16:25	35 24	118 38	A	3.0	North of Caliente
13	02:52:26	33 08	116 31	B	3.0	Northeast of Julian
15	21:00:32	34 52	121 32	C	3.7	Off Point Sal
16	05:16:50	34 01	117 18	B	2.1	East of Riverside
16	08:52.1	36.9	121.8	D	4.2	Near Watsonville
17	16:15:17	35 14	118 32	A	4.0	Near Woodford
17	21:09:58	34 40	119 26	C	3.5	Near Ozena
18	01:25:49	35 19	118 31	B	3.0	East of Caliente
19	19:44:48	35 00	118 58	B	3.0	Near Wheeler Ridge
20	02:57:33	34 04	118 22	C	1.8±	Near Beverly Hills. Shallow (blast?) Felt at Burbank
22	05:19:01	38.8	119.9		4.9	Felt. USCGS: Emigrant Gap, IV; Markleeville, IV; Meyers, V; Tahoe City, IV; Yosemite, IV; Carson, III Epicenter and origin time by USCGS.
22	14:10:26	38.8	119.9		4.3	Aftershock of 05:19:01
23	17:06:37	34 59	118 54	A	4.0	Near Wheeler Ridge. IV at Wheeler Ridge, USCGS.
23	17:42:27	34 59	118 58		3.7	IV at Wheeler Ridge, USCGS
24	06:55:48	34 20	117 23	C	2.1	Near Cajon Pass
24	12:50:29	33 13	116 42	B	2.8	West of Warners
24	19:52:26	35 20	118 36	B	3.2	Near Caliente
26	09:48:50	35 23	118 36	B	2.9	North of Caliente
26	12:42.3	31.6	115.8	D	4.0	Baja California
27	09:17:55	35 10	118 50	C	2.9	Near Arvin
27	14:45:28	34 13	116 26	B	2.8	Near Warren's Well
27	14:45:47	34 13	116 26	B	2.8	Near Warren's Well
27	20:36:36	35 46	117 59	B	3.3	North of Walker Pass
27	20:37:10	35 46	117 59	B	3.6	North of Walker Pass
27	22:27:02	35 46	117 59	B	3.1	North of Walker Pass
29	12:06.8	35 ?	118	D	2.8	Walker Basin?
29	14:44:15	34 08	117 39	B	2.5	Near Claremont. Very shallow (blast)
29	15:47:59	34 11	118 21	D	1.5±	Near Burbank. Shallow - blast?
29	17:19.6	35.9	120.2	D	3.7	North of Cholame
30	01:48:23	35 10	118 50	C	2.7	Near Arvin
30	04:49:46	35 20	118 32	C	2.6	East of Caliente
30	05:14:20	35 20	118 32	B	3.1	East of Caliente
30	06:28:55	35 53	117 39	C	3.2	Near China Lake
30	07:15:15	35 53	117 39	C	3.1	Near China Lake
30	09:13:09	35 38	118 28	B	2.9	Near Isabella
30	11:06:06	35 12	116 21	C	3.1	Northwest of Cronese
30	12:01:04	35 09	116 34	C	3.9	North of Manix

Charles F. Richter  
George Shor  
Pierre St. Amant  
November 19, 1953



## PASADENA LOCAL SHOCKS

No. 2

April, May, June 1953

Date	G.C.T.	Lat. N.	Long.W.	Q	M	Remarks
1953						
April						
1	11:58:50	35 19	118 30	C	2.9	East of Caliente
1	18:38:14	35 10	119 02	C	3.5	Near Kern Lake
2	05:03:49	35 49	118 01	C	2.8	North of Walker Pass
2	05:17:33	35.1	118.7	D	2.7	Near Bear Mountain; IV at Tehachapi (USCGS)
5	15:09:28.8					
		35 10	118 40	B	2.8	Near Bear Mountain
6	06:15:17	32.2	116.7	D	3.6	Northwest of Guadalupe, Baja California. Felt at El Cajon, Calif
8	00:59:20	34.8	120.6	D	3.6	Near Casmalia? IV at Los Alamos (USCGS)
8	10:37:24	35 19	118 29	B	3.5	East of Caliente
8	14:42:44	35 ?	118 ?	D	2.7	Near Caliente?
8	15:35:12	35 20	118 29	B	3.1	East of Caliente
8	19:00:17	35 08	119 08	C	3.0	West of Kern Lake
8	23:08:09	35 22	118 37	B	3.7	Northwest of Caliente. IV, Kernville
10	05:11:44	37.8	118.2	D	4.3	East of Benton. Felt: IV at June Lake, III at Long Valley Dam (USCGS)
11	19:53:26	34 04	116 41	B	3.0	East of San Geronimo Peak
13	10:47:00	35 05	119 10	C	2.8	North of San Emigdio Ranch
13	23:09:40	34 04	117 17	B	2.5	Near Fontana
15	00:29	35.87	121.27	D	3.2±	IV at Bryson (USCGS)
18	04:50:01	33 58	117 37	C	2.2	East of Chino
19	17:59:31.5					
		35 06	119 10	C	3.2	Near Kern Lake
19	23:22:21	35 23	118 34	C	3.0	North of Caliente
21	16:56:50	34 18	116 32	C	2.9	Southeast of Old Woman Springs
21	22:02:40	34 22	116 28	C	3.0	East of Old Woman Springs
22	15:39:53	34 54	116 30	C	3.0	Southeast of Manix
23	10:16:01	35 05	119 05	B	3.2	Near Wheeler Ridge
23	11:48:32.5					
		34 22	116 24	C	3.0	Southeast of Old Woman Springs
25	21:53:24	35 00	116 54	B	3.0	Near Calico
26	10:36:21	35 17	118 34	C	2.9	Near Caliente
26	12:09:20.5					
		35 21	118 38	B	3.0	North of Caliente
29	05:26:52	35.8	121.2	D	3.9	Near Bryson. V at Bryson (USCGS)
29	08:45:07	35 13	118 42	C	2.7	Near White Wolf Ranch
29	10:57:10	35 06	118 48	B	3.0	Near Comanche Point
29	12:47:45	35 00	118 44	A	4.7	Tejon Ranch. Intensity V, Wheeler Ridge; IV, Bakersfield, Tehachap Los Angeles (USCGS)
29	13:13:12	35 00	118 47	C	3.0	Tejon Ranch
30	08:48:16	35 22	118 30	B	3.0	Northeast of Caliente
May						
1	06:48:22	35 07	118 27	A	4.1	Near Tehachapi. IV at Tehachapi (C)
1	06:57:47	35 10	118 23	C	3.1	Near Monolith
1	16:04:20	35 00	118 48	C	2.9	Tejon Ranch
1	18:01:46	35 22	118 37	C	3.2	North of Caliente
1	22:34:37	35 12	118 38	B	3.1	Bear Mountain
2	05:50:41.5					
		34 06	117 38	B	3.9	Near Ontario (shallow). V at River IV at Los Angeles, etc. (USCGS)
2	06:51:00	34 06	117 38	B	2.5	Aftershock of preceding.
2	11:56:50	35 25	117 52	C	3.8	Near Garlock. IV at Cantil and Tehachapi; III, Jawbone Aqueduct Station (USCGS)
2	12:28:26	35 22	118 31	B	2.9	Northeast of Caliente
3	14:24:25	35 22	118 37	B	3.4	North of Caliente. IV at Bakersfield (USCGS)
3	14:47:09	35 24	118 37	C	3.2	North of Caliente
3	14:49:08	35 24	118 37	C	2.9	North of Caliente
4	02:30:23	34 07	117 18	B	3.4	Near San Bernardino. Felt sharply there, and slightly at Riverside (press) IV at Fontana (USCGS).
4	03:09:42	34 23	116 28	C	3.0	Northeast of Old Woman Springs
4	11:41:02	35 30	118 25	B	3.0	Near Piute Ranch

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May	Time	Mag	Lat	Long	Depth	Location
4	14:13:00	34 08	117 19			
4	14:55:10	30.5	114		B 2.3	Near San Bernardino
					5.2±	Gulf of California. Epicenter and origin time by USCGS.
4	15:15:				4.5±	Gulf of California?
4	20:58:				5	Gulf of California
5	01:47:24.5	35 26	118 40		B 3.2	Kern River Gorge
6	00:51:31	37 04	118 00		B 3.4	East of Tinemaha
6	03:01:36	35 00	119 10		C 3.1	San Emigdio Ranch. Probably shallow
6	03:54:10	35 03	118 48		B 2.6	Tejon Ranch
6	14:08:51	35 04	119 08		B 2.8	Near San Emigdio Ranch
6	15:57:15	36 11	118 03		B 3.3	Near Haiwee
6	16:57:				2±	Near Pasadena; data insufficient
7	02:54:26	35 00	118 45		B 3.5	Tejon Ranch
7	16:16:45	35 00	118 40		C 3.0	Tejon Ranch
7	19:40:23	34 07	116 56		B 2.8	Near Forest Home
8	09:01:14	35 10	118 40		B 2.8	Near Bear Mountain
8	20:30:34	34 40	116 22		B 2.9	Lavic Dry Lake
10	07:58:30	35 08	118 40		C 2.9	West of Cummings Valley
10	13:10:54	34 47	118 42		B 2.8	Near Gorman
12	02:51:20	35 02	118 48		C 2.9	Tejon Ranch
12	20:25:00	35 22	118 32		B 3.3	Northeast of Caliente
12	20:27:25	35 22	118 22		C 2.8	Northeast of Caliente
12	21:43:31	33 13	116 05		B 3.0	Near 17 Palms Spring
13	05:02:46	34 08	117 18		B 2.6	Near San Bernardino
13	06:07:06	35 03	118 17		B 3.2	Near Cameron
14	00:36:25	35 05	118 30		C 3.3	Near Tehachapi
14	03:36.0	36.0	120.0		D 3.3	Kettleman Hills
14	09:36:09	35 31	121 17		C 3.9	Off Cambria. V at Bryson (USCGS)
14	13:34:39	35 01	118 48		C 2.8	Tejon Ranch
15	01:22:53	35 07	118 42		B 3.4	West of Cummings Valley. IV at Tehachapi (USCGS)
15	03:43.3	35.87	121.27		D 4.0	Near Bryson?
15	09:47:27	35 22	118 40		C 3.2	Northwest of Caliente
15	19:20:50	33 58	117 39		B 3.0	Near Chino. Felt at Ontario (BSSA)
16	05:36:35	35 00	119 00		B 2.9	Near Wheeler Ridge
16	20:14:47	35 20	118 40		C 2.8	Northwest of Caliente
17	00:44:21	35 17	118 32		B 3.1	Near Rowen
17	16:44:20	35 25	118 49		B 2.9	North of Edison
18	07:03.0	36.0	114.5		D 3.8	Near Boulder City. Felt there slightly (USCGS)
18	16:34:48	35 27	118 25		B' 3.6	Near Piute Peak
18	16:40:24	35 29	118 26		B 3.1	Near Piute Peak
18	17:29:34	35 14	118 31		B 3.1	Near Woodford
19	01:49:16.5	35 09	118 40		B 3.0	Near Bear Mountain
19	02:44:30	34 57	119 02		B 3.6	West of Grapevine Station
19	12:05					
19	17:00:25	35 23	118 38		B 3.2	North of Caliente
20	10:08:01	35 19	118 34		B 2.9	Near Caliente
21	20:46:14	35 23	118 42		B 3.8	Northwest of Caliente
23	07:52:55	35 03	119 08.5		A 4.2	North of Wheeler Ridge
23	17:03:55	34 59	119 08		C 3.1	Wheeler Ridge. Peculiar.
23	21:16				3.8±	Felt at Mount Hamilton (USCGS)
24	02:08:08	35 22	118 40		C 2.6	North of Caliente. III Bakersfield (USCGS).
24	08:50:38	35 20	118 33		B 2.7	Northeast of Caliente
24	21:11:39	35 21	118 41		C 3.1	Northwest of Caliente
25	00:23.5	36.8	121.2		D 3.8	V at Hollister. IV at Gilroy and Morgan Hill (USCGS)
25	03:24:01	35 00	119 01		A 4.8	Wheeler Ridge. Felt widely. VI, Caswell; V, Taft; IV, Bakersfield, Tehachapi, Los Angeles (USCGS)
25	06:55:42	34 58	119 05		B 3.0	Wheeler Ridge
25	17:33:29	35 03	119 08.5		A 3.7	Near San Emigdio Ranch
28	03:51:15	36.0	120.5		D 4.4	Near Parkfield. IV at Paso Robles (USCGS)
28	07:58:34	36.0	120.5		D 3.6	Near Parkfield
29	10:20:15	35 50	121 10		C 3.7	Near Bryson
30	01:54:33	35 03	119 14		C 3.5	Northwest of San Emigdio Ranch
30	09:52:56	35 03	119 05		B 3.8	Wheeler Ridge
30	09:57:41	35 02	119 08		C 3.0	Near Wheeler Ridge
30	10:39:59	35 22	118 34		B 2.9	Northeast of Caliente
30	21:37:05	35 03	119 08		B 2.7	Near Wheeler Ridge





May

31	07:00:38	35 01	118 55	C	3.3	Near Wheeler Ridge postoffice
31	09:21:32	35 12	118 38	B	2.8	Bear Mountain
31	20:38:37	35 09	118 33	B	3.1	West of Tehachapi. IV at Tehachapi (USCGS)
31	23:51:20	36.1	120.1	D	3.3	Kettleman Hills



June

1	20:02:06	35 15	118 37	B	2.8	Near White Wolf Ranch
2	04:23:09	35 31	118 25	B	3.4	Near Havilah
2	14:15:40	33 09	115 58	B	3.2	Near Harper Well (west of Salton S
4	00:23:01	35 14	118 32	B	2.8	Near Rowen; southeast of Caliente
5	13:57:16	35 02	118 52	B	3.0	West of Tejon Ranch
6	08:47:51	35 18	118 36	B	2.8	Near Caliente
6	20:26:33	35.8	120.5	D	3.5	Near Parkfield
7	05:09:31	34 07	117 38	B	2.9	Near Upland
7	10:52:13	34 10	116 55	B	2.8	Near Seven Oaks
7	20:08:53	35 22	118 32	B	2.9	Northeast of Caliente
8	17:41:28	35 21	118 31	C	2.9	Northeast of Caliente
9	11:40.1	35.4	118.5	D	2.7	Northeast of Caliente
10	05:28:40	37 00	119 18	C	2.5	North of Trimmer Springs. Felt at Big Creek (S. Calif. Edison Co.)
10	06:36:03±	34.0	121.0	D	3.0±	West of San Miguel Island
10	08:49:42	35 00	119 01	B	2.8	Wheeler Ridge
10	12:10:51	35 06	118 31	B	3.3	Near Tehachapi. IV at Tehachapi (USCGS)
11	05:55:00	35 23	118 39	B	3.0	North of Caliente
11	22:02:29	35 18	118 35	B	2.9	Near Caliente
12	08:49:47	34 42	116 55	B	2.9	South of Daggett
14	04:17:28	32 50	115 40	C	5.5	Near Imperial. Felt as far as Yuma, San Diego, San Jacinto. Intensity VII reported only in a small area about 7 miles west of Brawley. Intensity VI at Brawley, Calexico, Imperial and Plaster City (CGS). Numerous recorded aftershocks; those of magnitude 3.0 and over are included in this report. The principal earthquake included three or four large shocks in quick succession.
14	04:28:56	32 50	115 40	C	3.6	
14	04:29:58	32 50	115 40	C	4.8	Closely followed by at least two other large shocks. These or the preceding felt at El Centro (CGS)
14	04:51:52	32 50	115 40	C	3.8	Felt at El Centro (USCGS)
14	05:55:34	32 50	115 40	C	3.1	Aftershock
14	06:11:23	32 50	115 40	C	3.3	Aftershock
14	06:54:12	32 50	115 40	C	3.0	Aftershock
14	09:51:07	33 58	116 52	B	2.7	Near Beaumont
14	17:28:29	33 03	117 18	C	3.5	Near Encinitas. Felt at Poway (USCGS)
14	21:54:42	34 03	116 40	B	2.8	West of Morongo Valley
14	22:17:02	34 03	116 38	B	2.8	West of Morongo Valley. This or the preceding felt at Morongo Valley (CGS)
15	07:22:14	35 10	118 37	B	3.8	North of Cummings Valley
16	03:33:33	35 09	118 37	B	3.0	North of Cummings Valley
16	11:49:47	35 14	118 39	C	2.8	Near Caliente
16	13:03:56	32 50	115 40	C	3.4	Near Imperial (aftershock of June 14)
17	10:21:17	35 08	118 56	C	2.9	Southwest of Arvin
17	23:42:03	32 50	115 40	D	3.2	Near Imperial
18	13:44:23	35 07	118 34	B	3.4	Cummings Valley
18	17:34:50	35 00	119 02	B	3.3	Wheeler Ridge
18	21:00:21	33 50	117 42	B	2.6	Northern Santa Ana Mountains
19	00:33:12	32 50	115 40	C	3.1	Near Imperial
19	07:51:19	32 50	115 40	C	3.4	Near Imperial
19	10:01:30	32 50	115 40	C	3.5	Near Imperial
20	23:18:52	35 22	118 30	A	4.4	Northwest of Caliente. Felt (III) at Jawbone aqueduct station (USCGS)
21	19:39:19	35 12	118 35	B	2.7	Near Rowen
21	23:54:42	35 25	117 45	C	2.8	Near Garlock
22	00:29:13	35 17	118 40	C	2.7	Near Caliente
22	02:50:25	35 06	119 00	B	3.9	North of Wheeler Ridge
22	03:10:27	35 06	119 00	B	3.5	North of Wheeler Ridge
22	04:54:21	36 04	118 20	B	3.0	East of upper Kern River
22	15:22:31	36.0	120.4	C	4.6	Near Parkfield. Felt at Paso Robles and Coalinga.
23	03:57:17	35 21	118 38	C	2.9	North of Caliente
23	06:27:55	35 07	118 57	C	3.3	Southwest of Arvin



1953 (continued)

June

23	12:29:49	35 20	118 40	C	3.0	Northwest of Caliente
26	05:05:59	35 00	118 55	C	2.9	Near Wheeler Ridge postoffice
26	05:34:28	35 02	118 45	C	3.0	Tejon Ranch
26	19:46:55	35 18	118 37	B	2.9	Near Caliente
27	20:53:08	34 04	117 42	B	2.6	Near Ontario
28	04:23:35±	33 15	115 55	C	3.3	West of Salton Sea (near Truckha
28	15:19:47	34 10	116 58	B	2.7	Near Barton Flat
28	22:57:53	35.3	118.3	D	2.8	East of Caliente
29	11:07:31	35 19	118 37	C	3.0	Near Caliente



Charles F. Richter  
 George Shor  
 Pierre St. Amand  
 December 2, 1953

Notes to Bulletin on Local Shocks, April-June, 1953

The general remarks prefaced to the January-March issue apply here.

Aftershocks of the Kern County series are completely listed for magnitude 3.0 and over. Those of magnitude 4.0 and over will be found listed on April 29, May 1, May 23, May 25 and June 20.

Special care has been taken to make the listing of shocks in Imperial Valley during June complete for magnitude 3.0 and over.

Dates and times are given in terms of Greenwich Civil Time. To reduce to Pacific Standard Time (in general use to April 30) subtract 8 hours; to reduce to Pacific Daylight-Saving Time (in use during May and June) subtract 7 hours.



## PASADENA LOCAL SHOCKS

No. 3

July, August, September 1953



Date	G.C.T.	Lat.N.	Long.W.	Q	M	Remarks
1953						
July						
1	01:03:54	36 00	117 40	B	2.0	Near Coso Hot Springs. Artificial?
1	22:17:20±	34 ?	121 ?	D	3.2	Off Point Arguello. Felt at Point Arguello Light Station (CGS)
1	22:38:08	35 22	117 47	B	3.5	Near Garlock
2	07:07:05	34 15	117 02	B	2.7	West of Big Bear Lake
2	10:58:20	34 09	117 29	B	2.4	Near Etiwanda
4	10:28:27	35 23	118 27	B	2.8	Near Piute
4	11:52:03	35 18	118 27	B	3.4	East of Caliente
4	23:05:54	35 03	118 35	C	2.8	Near Cummings Mountain
5	12:21:14	33 11	116 25	B	3.2	Near Borego
5	20:02:27	34 35	116 16	B	3.2	Southwest of Ludlow
6	07:01:35	35 10	118 44	C	2.7	Southeast of Arvin
6	22:46:50	33 30	118 10	C	2.9	San Pedro Channel
7	09:36:25	35 02	118 54	C	2.7	Near Wheeler Ridge postoffice
8	00:04:45	34 58	116 55	B	3.3	Calico Mountains
8	00:56:30	34 25	116 14	B	2.9	Northwest of Deadman Lake
8	13:57:09	35 03	118 56	C	2.7	Near Wheeler Ridge postoffice
8	22:38:20	35 12	118 33	C	2.5±	Near Bear Mountain
9	02:44:22	34 26	116 14	B	3.6	Northwest of Deadman Lake
9	04:01:34	35 18	118 32	B	2.9	Caliente Canyon
9	06:34:58	35 00	118 58	C	2.7	Near Wheeler Ridge
9	09:10:48	35 16	118 34	B	2.8	Southeast of Caliente
10	01:09:44	35 24	118 38	B	2.9	Breckenridge Mountain
10	21:32:15	35 22	118 27	B	3.4	Near Piute
12	01:33:52	33 44	116 53	B	3.2	East of Hemet
13	01:42.4	36.9	116.1	D	3.4	West of Frenchman's Flat, Nevada
13	07:50.2	35.3	118.6	D	2.8	Near Caliente
14	12:10.3	35.2	118.8	D	2.8	Vicinity of Arvin
15	01:12:06	33 21	118 43	C	3.3	West of Catalina Island
15	19:13.7	35.1	119.1	D	2.8	Northwest of Wheeler Ridge
16	05:25:39	33 48	119 01	B	3.4	West of Santa Monica Bay
16	11:30:21	35 23	117 47	B	2.9	Near Garlock
16	17:11:10	35 00	118 44	C	3.0	Tejon Ranch
18	05:25:13	35 08	119 01	B	3.0	Near Wheeler Ridge
20	09:20:13	33 53	117 38	B	3.4	Near Prado. Felt from Los Angeles to Pomona and Chino (press). IV at Pomona and Riverside (CGS)
23	09:30:06	35 04	119 02	C	3.1	Near Wheeler Ridge
24	13:54:05	35 32	118 23	B	3.0	East of Havilah
26	02:42:35	34 23	118 30	B	3.2	Near Newhall
26	12:41:28	35 00	118 53	C	2.7	Near Wheeler Ridge postoffice
26	12:44:59	35 00	119 08	B	2.8	Near San Emigdio Ranch
26	13:26:30	35 01	119 07	B	2.8	Near San Emigdio Ranch
26	15:29:49	34 20	117 00	B	2.5	Near Big Bear
26	15:59:36	35 04	119 01	B	2.9	Near Wheeler Ridge
27	01:24:57	35 02	119 01	B	2.4	Near Wheeler Ridge
27	02:31:37	33.3	118.3	D	2.4	Near Catalina Island. Artificial?
27	12:46:02	33 40	118 22	C	2.2	Off Point Fermin
27	14:17:59	31 28	116 20	C	3.6	Baja California
28	17:09:46	35 05	119 07	B	3.3	North of San Emigdio Ranch. Felt at Maricopa (press)
29	14:02:24	35 21	118 32	A	3.1	Northeast of Caliente
30	11:58:40	35 07	118 58	B	3.5	Near Reeds Station
30	21:07:34	35 47	116 57	B	3.6	East of Wingate Pass
30	21:48:22	35 20	118 31	B	3.0	Northeast of Caliente
31	02:56:51	35 48	116 58	B	3.3	East of Wingate Pass
31	20:02:43	35 04	116 52	B	2.8	Calico Mountains
Aug.						
2	02:58:03	34 30	118 25	C	2.0	Mint Canyon
2	04:18:32	35 10	118 48	B	3.1	South of Arvin
2	04:34:48	34 29	118 22	B	3.1	Mint Canyon



1953 (continued)

Aug.

2	13:53:59	35 31	118 19	B	2.7	East of Havilah
4	11:41:57	34 32	118 21	B	2.1	Mint Canyon
5	12:20:59	35 01	119 03	B	4.3	Wheeler Ridge. Felt at Taft and Maricopa (press)
5	14:56:31	33 42	116 06	C	3.0	East of Indio
5	22:18:08	35 08	118 50	B	2.9	South of Arvin
5	23:51:50	35 22	118 30	B	3.0	Northeast of Caliente
6	11:20:04	35 03	119 08	B	4.4	Northwest of San Emigdio Ranch. Felt at Taft and Maricopa (press); IV at Cuyama (CGS)
7	22:43:51	33 10	116 00	B	3.4	West of Salton Sea
9	22:00:00	37 30	114 20	C	4.5	Lincoln County, Nevada
10	21:22:59	36 10	118 02	A	2.9	Northwest of Haiwee; depth 10 km.
11	01:29:22	34 03	116 27	B	3.1	East of Morongo Valley, near Warren Tank
11	18:33:59	35 49	118 23	B	3.8	Near Kernville. Felt at Kernville (press)
11	21:48:04	35 15	118 36	B	3.1	Near Caliente (Rowen)
13	20:41.6	37.9	118.2	D	3.4	Esmeralda County, Nevada
16	05:16:32	33 01	115 43	C	3.8	West of Westmorland
16	16:30:41	33 05	115 40	C	3.3	Near Westmorland
16	21:02:19	35 02	118 40	B	2.9	Tejon Ranch
18	08:21:37	34 17	117 26	B	2.8	Cajon Pass
19	03:16:07	35 22	118 38	B	3.6	North of Caliente
20	08:52:16	35 18	118 38	B	3.2	Near Caliente
22	03:24:26	35 22	118 32	B	2.8	Northeast of Caliente
22	10:04:37	35 27	118 39	B	2.9	Breckenridge Mountain
23	20:34:18	35 08	118 35	B	3.0	Cummings Valley
24	01:37:18	35 22	118 32	C	2.8	Northeast of Caliente
25	08:43:10	35 05	116 53	B	3.0	Calico Mountains
28	06:52:54	35 23	117 43	B	3.1	East of Garlock
28	15:48:23	35.0	119.0	D	3.0	Near Wheeler Ridge
29	08:46:30	35 24	118 52	B	3.0	North of Edison
29	20:51:15	35 24	118 46	C	2.9	Northeast of Edison
30	02:26:26	34 00	116 51	B	3.7	North of Banning. Felt at Banning, Whitewater, Palm Springs, and Hemet
30	11:19:48	35 23	118 28	B	3.3	Near Harper Mountain (east of Piute)
30	12:18:42	35 21	118 32	B	3.4	Northeast of Caliente
31	03:55:40	35 10	118 41	B	2.8	Near Bear Mountain

Sept.

2	15:27:56	35 02	119 06	A	4.0	Near Wheeler Ridge
3	07:43:33	35 04	119 03	B	3.1	Near Wheeler Ridge
4	03:54:24	36 02	120 17	C	3.8	Near Stone Canyon. IV at Paso Robles and Creston (CGS)
4	15:36:15	35 12	118 38	B	3.6	Bear Mountain. V at Tehachapi (CGS)
4	21:02:17	34.8	11.1	D	4.5	Near Winslow, Arizona
4	21:13:26	35 10	118 48	B	2.9	Near Comanche Point
5	19:24:36	35 23	118 36	B	4.1	Breckenridge Mountain
5	20:32:05	33 50	117 55	C	2.2	Near Anaheim
7	08:37:17	35 22	118 30	B	3.0	Northeast of Caliente
7	14:00:40	35 22	118 28	C	2.7	Northeast of Caliente
7	17:28:52	34 05	118 30	C	2.1	Near Santa Monica
8	01:28:31	35 16	118 33	B	3.0	Near Rowen
10	03:04:10	35 08	118 43	C	2.6	West of Cummings Valley
10	03:20:24	35 23	119 00	B	2.6	Bakersfield
10	03:59:26	34 32	118 05	C	2.0	North of Vincent
10	07:20:18	35 11	118 38	B	2.8	Bear Mountain
10	19:44:08	34 56	119 26	B	3.2	Near Pattiway
11	02:25:06	35 15	118 36	C	2.8	Near Rowen
11	20:50:46	34 03	115 38	B	4.2	Pinto Mountains
12	06:41:16	35 22	118 53	B	4.1	Felt at Bakersfield (press)
13	19:33:14	34 50	118 52	B	2.9	Near Lebec. Depth 20 km.?
15	23:14:37	35 04	118 49	C	2.9	Tejon Ranch
16	05:03:14	35 08	118 39	B	3.3	North of Cummings Valley
16	15:41:21	37 20	117 00	C	3.9	South of Goldfield, Nevada





1953 (continued)

Sept.

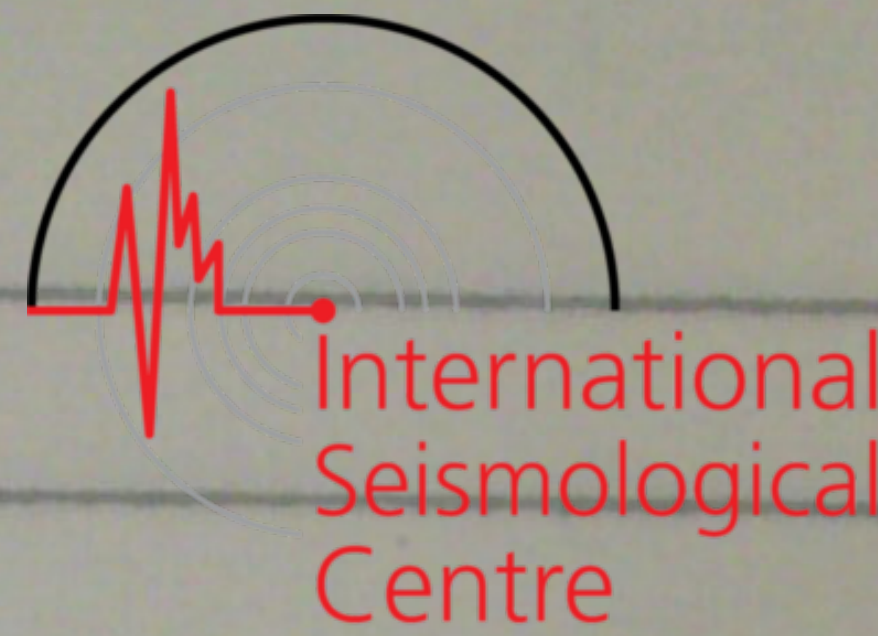
17	02:24:16	34 00	118 12	C	1.8	Near Huntington Park
17	11:20:48	34 58	118 48	B	3.0	Pastoria Creek, Tejon Ranch
18	09:17:55	33 42	118 12	C	2.2	Off Long Beach
19	04:27:12	35 22	118 43	B	3.1	Near Bena
19	15:01:24	35 21	118 34	B	2.7	Northeast of Caliente
20	18:59:43	35 24	118 40	C	2.9	Breckenridge Mountain
22	07:37:00	36.1	121.3	D	3.8	Southwest of King City. Possibly felt at Bryson (CGS)
24	12:02:34	35 00	118 47	B	3.7	Near Comanche Point
25	07:12:45	35 08	118 37	B	3.0	Cummings Valley
26	03:34.5	39.9	120.0	D	5.2	North of Reno, Nevada. VI at and ne Reno, with minor damage. Felt widel in Nevada and California (CGS)
30	11:46:43	34 57	118 50	B	2.8	East of Grapevine Station



## PASADENA LOCAL SHOCKS

No. 4

October, November, December 1953



Date	G.C.T.	Lat. N.	Long. W.	Q	M	Remarks
<u>Oct.</u>						
1	03:15:07	33 51	119 26	B	2.7	South of Anacapa Island
1	03:56:13	36.3	121.9	D	3.2	Coast of Monterey County. IV at Big Sur (CGS)
1	19:35:14	34 40	116 40	B	4.1	Ord Mountains, Mojave Desert
5	03:27:08	35 22	118 48	B	3.6	Near Edison
7	06:47:26	35 18	118 38	B	3.0	Near Caliente
7	14:59:21	35 02	118 51	B	4.9	West of Tejon Ranch. Wheeler Ridge, V Bakersfield, IV (CGS). Felt at Glendale and at Cactus Peak (Coso Range)
9	09:35:00	33 45	118 15	C	1.8	Near Long Beach (Terminal Island) Peculiar
10	18:49.1	31.8	116.1	D	5.0	Baja California. V at Point Loma (CGS)
11	11:05:47	35 08	118 41	B	3.1	West of Cummings Valley
13	08:33:45	30	114		6	Gulf of California
13	18:41:03	35 36	118 32	B	3.1	West of Bodfish. V at Borel powerhouse Bodfish (CGS)
14	08:58:44	34 58	118 44	B	3.0	Pastoria Creek, Tejon Ranch
15	06:43:52	35 35	118 49	B	2.9	Near Granite Station
16	03:45:35	35 56	120 36	C	3.6	West of Parkfield
16	19:53:59	35 00	118 32	C	2.9	Near White Oak Lodge. IV at Tehachapi
17	12:41:17	35 19	118 36	B	3.3	Near Caliente
17	12:44:43	35 19	118 37	B	3.7	Near Caliente
17	13:08:33	33 52	117 44	B	2.4	Near Peralta; east of Olive
17	23:39:28	35 20	118 32	B	2.9	Northeast of Caliente
18	06:37:45	34 24	117 24	B	2.6	East of Hesperia
19	11:00:42	35 40	118 33	B	2.8	West of Isabella
21	16:02:38	34 19	119 42	B	4.0	Off Santa Barbara. V at Santa Barbara (CGS)
24	01:02:48	35 28	118 47	C	2.9	Kern River Gorge
25	19:05:02	33 37	116 42	B	3.0	North of Anza
27	11:14:47	34 08	117 47	B	2.7	Near Claremont
28	13:16:55	35 20	118 49	B	3.1	Near Edison
29	12:53:50	35 33	118 58	B	3.1	Near Poso
30	07:35:45	37 38	118 18	C	4.4	White Mountains. Felt at Big Creek and Florence Lake (So. Cal. Edison Co.) IV at Yosemite (CGS)
<u>Nov.</u>						
1	17:41:51	35 18	118 46	C	3.1	Near Bena
1	18:06:44	34 02	117 28	B	2.4	Near Mira Loma
2	00:52.1	36 ?	121 ?	D	3.9	Coast of Monterey County?
4	04:37:48	35 24	118 42	B	3.0	North of Bena
4	05:31:01	35 20	118 39	B	2.7	Near Caliente
4	13:19:35	35 07	118 40	B	2.9	West of Cummings Valley
4	15:31:02	33 57	117 20	B	2.5	Near Riverside. Felt at Riverside and Colton (telephone company)
4	21:14:37	35 01	118 43	B	2.9	Near Tejon Ranch
5	11:57:17	35 17	118 57	C	3.2	Near Greenfield
5	12:40:31	35 08	118 39	C	3.0	Cummings Valley. IV at Tehachapi (CGS)
6	13:00:18	35 28	118 41	C	3.0	Kern River Gorge
7	05:44:26	35 02	119 02	B	3.1	Near Wheeler Ridge
7	05:48:09	35 02	119 02	B	2.8	Near Wheeler Ridge
9	14:05:13	34 14	117 31	B	2.5	Near Glenn Ranch
9	17:25:51	35 21	118 38	C	3.0	North of Caliente
9	18:02:44	35 17	118 34	B	2.9	Near Caliente
10	07:28:09	35 22	118 32	B	3.0	Northeast of Caliente
11	00:49:16	35 11	118 36	B	2.9	Near Bear Mountain
11	21:52:26	35 07	118 32	B	3.0	West of Tehachapi. IV at Tehachapi (CGS)
12	18:32:09	35 35	118 28	B	3.2	East of Bodfish. V at Bodfish (CGS)
13	02:49:05	35 06	118 35	B	2.6	Cummings Valley
13	09:50:25	35 10	118 38	B	2.8	South of Bear Mountain
13	13:04:27	35 18	118 34	B	3.1	Near Caliente
16	02:51:57	35 15	118 37	B	2.7	Near Caliente
17	12:17:20	36 14	117 57	B	3.0	North of Haiwee. Shallow.
20	11:00:51	35 23	118 40	B	2.8	Breckenridge Mountain



1953 (continued)

Nov.

22	04:50:03	35 15	118 35	B	2.7	Near Rowen
22	07:16:40	35 08	118 35	B	2.6	Cummings Valley
22	08:11:38	32 49	116 12	C	4.1	Southwest of Carrizo
23	13:39:07	33 06	116 27	B	4.3	East of Julian. IV at Borego, Fallbrook, Hemet, Julian, San Diego (CGS)
23	17:57:14	35 18	118 33	B	3.2	Northeast of Caliente
23	20:39:01	35 28	118 27	B	4.4	Near Havilah. V at Bodfish, IV at Tehachapi (CGS)
24	05:46:06	35 53	116 58	B	4.9	Near Needle Peak, Panamint Range. IV at Tecopa (CGS)
24	10:50:43	35 19	118 37	B	3.5	Near Caliente
24	10:59:53	33 07	116 26	B	2.6	East of Julian
24	12:53:14	35 53	116 58	C	3.3	Panamint Range
26	02:14:24	35 08	118 50	B	3.4	South of Arvin
26	14:30.9	38 ??	119 ??		2.8	IV at Markleeville (CGS)
26	16:19:13	35 19	118 32	B	3.9	East of Caliente. Felt at Bakersfield and in Kern River Canyon. (CGS) Probably IV at Tehachapi
28	10:18:50	35 23	118 40	B	3.1	Breckenridge Mountain
28	10:59:46	35 34	118 25	B	2.9	East of Bodfish
28	13:31:12	35 53	116 58	B	3.5	Panamint Range
29	14:57:49	36 21	117 56	C	2.9	Owens Lake
30	07:22:54	35 20	118 31	B	3.7	East of Caliente. Felt sharply at Wo sleepers awakened (telephone)

Dec.

1	03:26:41	35 18	118 30	B	3.0	East of Caliente
2	07:43:30	33 18	116 21	C	3.2	Near Clark Dry Lake
4	00:22:49	32.2	117.6	D	3.2	Near Los Coronados Islands. Seismogr overlap those of next shock
4	00:22:51	35 45	118 13	B	3.2	North of Onyx
4	07:44:17	35 53	116 58	C	3.6	Panamint Range
4	17:28:00	33 22	118 14	B	3.6	Off Avalon (Catalina Island)
6	00:50:05	35 24	118 40	B	2.9	Breckenridge Mountain
6	04:28:10	34 59	118 58	B	2.9	Near Grapevine Station
6	20:29:59	33 28	116 28	B	2.9	Near Santa Rosa Peak
7	06:08:33	34 12	118 49	B	2.8	South of Simi
7	14:14:21	35 01	118 54	B	2.5	North of Grapevine Station
9	11:53:53	34 01	116 18	B	3.3	Southwest of 29 Palms
12	00:59:31	35 14	118 38	B	3.5	Near Caliente
12	03:38:09	35 17	118 42	B	3.0	West of Caliente
12	23:17:04	35 34	118 25	B	2.9	East of Bodfish
14	08:05:14	34 58	118 57	B	2.7	Near Grapevine Station
14	16:13:17	35 16	118 35	B	2.7	Near Caliente
15	06:40:13	35 09	118 52	B	2.7	South of Arvin
15	07:15:25	33 07	116 10	B	3.0	vallecito Mountains
15	12:44:36	35 13	118 49	A	4.6	Near Arvin. Arvin V, Bakersfield IV
16	00:05:29	36.8	121.6	D	3.8	Near San Juan Bautista. Felt at Gilr (press) Aptos IV; Los Gatos, Moss Landing III (CGS)
16	07:03:09	35 38	117 21	C	2.7	Searles Lake
16	10:54:22	36.8	121.6	D	3.9	Near San Juan Bautista. V at Hollist (CGS, press)
16	23:09:42	36.8	121.6	D	3.9	Near San Juan Bautista. IV at San Francisco (press) Moss Landing IV (CGS)
17	04:50:33	36.8	121.6	D	4.1	Near San Juan Bautista. IV at Hollister (CGS)
17	05:13:16	36.8	121.6	D	4.1	Near San Juan Bautista. Felt at Holl and San Francisco. Slides on highway from Chittenden Junction to Watsonvi (press) Maximum intensity VI; felt a far as San Francisco (CGS)
17	05:39:44	36.8	121.6	D	3.9	Near San Juan Bautista. Felt at Holl (press) IV at Moss Landing and south Hollister (CGS)
17	14:28:32	34 57	116 27	B	3.9	East of Manix
17	16:51:14	35 00	118 33	B	3.0	Near White Oak Lodge





1953 (continued)

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Dec.

19	01:09:33	35 18	118 38	C	2.7	Near Caliente
19	06:55:14	35 06	119 03	B	3.1	North of Wheeler Ridge
20	23:15:51	33 59	116 25	B	3.1	Near Desert Hot Springs
21	01:46:18	34 13	118 38	B	2.2	Near Canoga Park
21	05:27:49	35 02	119 02	B	3.0	Near Wheeler Ridge
22	09:36:19	35 12	118 42	C	2.8	Bear Mountain
22	12:20:11	35 14	118 40	B	2.8	Bear Mountain
23	03:42.3	37.5	118.0	D	2.4	East of Bishop. IV at Laws (CGS)
23	13:23:56	34 02	118 20	C	2.7	North of Inglewood. This and following shock felt at West Los Angeles, Culver City, Playa del Rey, Manhattan Beach (press; So. Calif. Telephone Co.; direct telephone calls)
23	13:25:50	34 02	118 20	C	2.8	North of Inglewood. See notes on preceding.
23	20:35:58	35 19	118 33	B	3.5	East of Caliente
23	23:33:41	35 16	118 34	C	3.0	East of Caliente
24	03:21:42	35 16	118 34	C	3.3	East of Caliente
24	14:40:08	35 14	118 37	C	2.5	Near Caliente
24	15:55:33	35 59	117 57	B	2.9	Near Coso Junction
24	19:30:28	35 18	118 32	B	3.1	East of Caliente
24	19:31:46	35 18	118 32	B	3.4	East of Caliente
25	23:43:40	34 02	118 20	C	2.5	North of Inglewood. Felt at Palos Verdes, and at Redondo, Hermosa, Manhattan Beaches (press). Times check closely with shocks on Dec. 23.
28	01:07:00	35 12	118 36	B	2.7	North of Cummings Valley
28	01:32.7	36.8	121.6	D	3.7	Near San Juan Bautista. IV at Gilroy Hollister (CGS)
29	10:39:35	34 01	117 10	B	3.1	Near Redlands
29	23:48:03	35 50	117 00	C	2.6	Panamint Range
31	05:38:20	33 57	118 44	C	2.4	Off Point Dume
31	06:56:07	34 55	119 08	B	3.0	North of Cuddy Valley