

PASADENA LOCAL SHOCKS

International
Seismological
Centre

No. 1

January, February and March 1949

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
<u>January</u>						
1	01:05:32	33 58	116 30	C	3.3	Near Desert Hot Springs
1	07:11:27	33 53	116 20	C	3.6	Near Desert Hot Springs
2	02:48:11	34 00	116 51	C	2.6	Near Banning
2	14:03.9	38.7	119.0	D	4.5	Felt at Schurz, Nevada (CGS)
3	05:43:39	34 57	116 30	B	4.8	Near Manix. Reported felt at Pisgah
3	12:07:04	34 02	117 05	B	2.8	Near Redlands
3	15:37:30	35 06	116 38	C	3.0	Near Manix
4	08:57:07	35.7	118.1	D	2.6	Near Walker Pass. Felt at Weldon
5	21:54:13	33 55	116 26	C	3.4	Near Desert Hot Springs
6	02:06:39	33 58	116 28	C	2.9	Near Desert Hot Springs
6	23:29:21	33 15	116 06	B	2.9	Near Borego Valley
7	00:23:10	33 58	116 27	C	3.0	Near Desert Hot Springs
8	08:40:10	34 04	116 39	C	2.5	Near Desert Hot Springs
8	09:54:41	32 25	118 44	C	2.8	South of San Clemente Island
8	11:08:47	34 00	117 16	C	2.8	Near Riverside
8	11:12:23	34 10	116 36	C	2.4	Near Desert Hot Springs
8	12:34:14	34 10	116 36	C	2.7	Near Desert Hot Springs
8	22:21:00	33 45	116 54	C	2.4	Near Hemet
14	22:35:24	35 05	117 24	C	2.9	Northeast of Kramer
15	05:15:02	34 17	116 51	C	2.7	Near Big Bear Lake
18	23:11:38	33 54	116 25	C	2.8	Near Desert Hot Springs
21	04:23:00	33 58	116 27	D	2.7	Near Desert Hot Springs
22	13:15:16	33 25	116 57	B	3.2	Near Palomar
22	20:38:43	34 45	118 59	B	3.0	Near Gorman
23	16:11				3.5	San Benito County? Felt at Hollister (CGS)
24	20:29			D	3	Northwestern Santa Barbara County? Felt at Orcutt and Santa Maria
26	11:12:59	33 50	117 35	B	2.3	Near Corona
27	04:53:09	34 55	116 40	C	2.9	Near Yermo
27	13:04:23	33 58	116 30	C	2.6	Near Desert Hot Springs
28	02:06:23	36 22	116 55	C	3.2	Death Valley
29	07:44:47	33 52	117 47	B	2.7	Near Peralta
30	06:39:36	33 12	116 07	C	3.6	Near Borego Valley
30	16:21:06	33 54	117 58	B	2.4	Buena Park
<u>February</u>						
1	01:49:25	33 25	116 25	C	2.9	Near Desert Hot Springs
1	03:59:19	33 51	117 45	B	2.8	Near Peralta
2	22:20:53	33 55	116 25	C	3.0	Near Desert Hot Springs
5	22:24:41	33 29	116 35	B	3.0	Southeast of Cahuilla
6	23:23:15	33 55	116 25	C	2.8	Near Desert Hot Springs
7	08:11:38	33 18	116 08	C	3.5	Borego Valley
9	00:54:50	33 13	116 09	B	3.0	Borego Valley
9	02:30:25	33 57	117 44	B	2.1	Near Chino
9	10:07:49	33 56	118 39	C	3.0	Santa Monica Bay
10	15:16:05	33 03	116 29	C	3.2	Near Julian
11	01:57:25	32.0	117.0	D	4.0	Near Ensenada
11	04:43:05	34 12	117 20	C	2.5	Cajon Pass
11	13:05:24	37 05	117 45	C	5.6	East of Tinemaha. Felt from Goldfield and Beatty into California
11	16:34:11	32 53	116 56	C	2.9	Near Lakeside
11	21:25:56	37 05	117 45	C	3.8	East of Tinemaha. Felt generally in Owens Valley, southern San Joaquin Valley, and the intervening Sierra Nevada.

Maximum reported intensity VI



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12	10:19:57	33 56	116 28	C	2.9	Near Desert Hot Springs
12	11:13:36	36 52	118 32	C	3.5	West of Independence
15	17:43:06	33 18	116 05	C	3.0	Borego Valley
16	03:02:47	34 00	116 56	C	2.7	East of Riverside
17	19:34:05	33 13	116 09	C	3.0	Near Borego Valley
18	13:59:52	34 03	116 45	C	3.1	North of Cabazon
19	21:11:24	34 15	117 03	C	2.6	Near Big Bear Lake
21	04:57:58	33 55	116 15	C	2.8	North of Indio
21	05:42:25	34 00	117 30	B	2.8	Near Mira Loma. Felt at Riverside and
22	03:48:25	33 55	116 25	C	2.8	Near Desert Hot Springs
22	17:39:45	31 05	118 07	B	2.8	Near Montebello
23	13:40:48	33 53	116 20	C	2.8	Near Desert Hot Springs
23	23:13.5	32.2	115.4	D	3.8	Near the head of the Gulf of California
24	18:28				4.5	San Benito County? Felt at Los Banos
26	00:30:06	37 20	118 35	C	3.5	West of Bishop
27	05:35:47	41.2	125.2		5.0	Epicenter and origin time by Mr. Romney, (Berkeley)
27	16:17:18	33 46	118 10	C	2.6	Near Long Beach; felt there
28	07:47:02	33 55	117 23	B	2.5	South of Riverside
<u>March</u>						
3	12:26:17	34 00	115 50	C	3.2	Pinto Basin
3	13:50:04	34 58	116 30	C	2.9	Near Manix
5	01:37:38	33 53	116 30	B	3.2	Near Desert Hot Springs
5	23:03:11	33 56	116 27	B	2.8	Near Desert Hot Springs
7	04:56:10	33 55	116 28	B	3.1	Near Desert Hot Springs
7	13:48:57	34 13	116 40	C	2.7	Near Desert Hot Springs
8	00:53:47	37 44	118 27	C	3.7	Near Benton
8	10:22:26	33 56	116 27	B	3.0	Near Desert Hot Springs
9	04:28:39	37.1	121.3		5.3	Epicenter and origin time by USCGS
9	04:58				3.7	Aftershock VII at Hollister
9	11:13:41	33 12	116 42	C	3.0	Near Lake Henshaw
9	17:00:59	33 56	116 29	B	2.9	Near Desert Hot Springs
10	07:54:17	34 01	117 17	B	2.4	Colton blast (not verified)
11	04:20:11	35 02	116 58	C	2.8	Northeast of Barstow
11	06:54:16	37 44	118 27	C	3.6	Near Benton
12	19:09:23	34.0	119.0	C	2.7	West of Point Dume
13	07:55:18	34 58	116 33	C	3.8	Near Manix
13	09:56:02	35 05	117 00	C	2.9	North of Barstow
13	12:46:58	34 13	117 24	B	2.2	Near Devore
13	22:11				4.7	San Benito County?
15	07:08:50	33 58	116 32	B	3.4	Near Desert Hot Springs
15	11:41:55	33 58	116 32	C	3.0	Near Desert Hot Springs
16	03:57:47	34 56	116 31	C	2.9	Near Manix
16	10:00:27	33 17	116 02	B	4.0	West of Salton Sea
16	22:12:44	33 58	116 32	C	2.7	Near Desert Hot Springs
17	06:41:46	33 25	116 32	C	2.9	South of Santa Rosa Mountain
17	08:06:29	33 25	116 30	B	3.7	NW of Clark Lake. Felt in Borego Valley, CGS
17	17:55:12	34 56	116 31	C	3.3	Near Manix
17	21:02:28	34 52	116 39	C	3.0	Near Newberry
18	00:37:45	33 38	116 02	B	3.4	Near Thermal
19	11:25:09	34 16	117 02	B	2.5	Near Bear Lake
19	18:26:35	33 48	117 06	C	2.7	Near Perris
20	11:34:50	35 08	117 15	B	4.4	NW of Barstow. Felt at Hinkley (CGS)
20	21:49:24	34 12	116 07	C	2.9	Near Twenty-nine Palms
22	22:22:19	33 19	117 55	B	2.6	East of Catalina Island
23	08:10:59	34 55	117 00	C	3.0	Near Barstow
23	15:33.22	34 09	116 45	C	3.1	North of San Geronio Peak
24	20:56.8	42	126.2	6-6.4		Epicenter and origin time by USCGS. Felt at Grant's Pass, etc.
26	04:57:33	35 39	118 11	C	2.7	Near Walker Pass
26	11:13:47	35 40	118 20	C	3.1	Near Walker Pass
26	18:01:48	34 42	117 10	C	2.5	Near Hodge
26	22:31:16	34 15	119 37	C	2.6	Near Santa Barbara
27	10:54:09	33 55	116 24	C	2.7	Near Desert Hot Springs
29	06:57:18	35 10	117 13	C	3.1	North of Barstow
29	12:32:49	33 59	116 21	C	2.8	Near Desert Hot Springs
29	13:40:19	34 00	118 19	B	2.3	Felt in Huntington Park and eastern L. A.

PASADENA LOCAL SHOCKS

No. 2

April, May, June, 1949

Date	P. S. T	Lat.	Long.	Q	M	Remarks
<u>April</u>						
1	11:20:03	33 56	116 34	C	3.0	Near Desert Hot Springs
3	15:34:28	34 59	116 35	C	3.4	Near Desert Hot Springs
5	22:49:17	33 00	116 21	C	3.3	Near Cuyamaca
6	06:07	34?	120?		2.6	Felt at Santa Maria (telephone)
8	05:17:07	34 36	120 21	C	3.2	Felt at Los Alamos (CGS)
12	23:53:36	33 17	116 21	C	4.1	Near Borego Valley. Felt at Indio (CGS)
12	23:58:26	37 40	118 23	C	4.5	North of Bishop. Felt: Long Valley Dam and Yosemite Valley (CGS).
13	05:06:32	32 58	116 31	C	3.6	Near Cuyamaca
13	15:30					Near Pasadena-data insufficient
13	17:46:12	34 17	119 51	C	2.6	Off Carpinteria
14	18:33:36	33 30	116 45	C	3.0	Near Cahuilla
17	10:09:17	33 53	116 24	C	3.1	Near Desert Hot Springs
20	23:12:20	34 59	119 12	C	3.0	Near Maricopa
23	07:18:10	34 03	118 48	C	2.9	Near Santa Monica
25	10:46:25	34 02	116 30	C	2.9	Near Desert Hot Springs
26	11:28:16	34 12	117 00	C	2.7	Near Big Bear Lake
26	14:47:10	34 12	116 58	C	2.6	Near Big Bear Lake
<u>May</u>						
1	16:26.2	31.8	115.0	D	4.1	Head of the Gulf of California
2	03:24:58	34 01	115 46	C	4.6	Foreshock
2	03:25:47	34 01	115 41		5.9	Main shock. Pinto Basin. Felt to and beyond Los Angeles, and far out into the desert area. Aftershocks numerous; for list see end of this issue.
2	04:07:38	33 45	118 05	C	2.7	Near Seal Beach
4	19:31:05	34 17	118 28	C	2.3	Near San Fernando
5	20:23:45	34 30	121 00	C	3.4	West of Point Conception
6	17:14:13	34 17	117 29	A	2.6	Near Cajon
9	20:06:33	34 01	115 41		4.7	Aftershock of May 2 03h
11	13:13:22	34 04	119 03	C	2.8	Southeast of Point Mugu
12	22:04:31	35 14	118 00	C	3.0	Southeast of Cinco
13	00:53:30	35 16	117 55	C	2.8	East of Cinco
13	02:18:31	34 00	118 16	A	3.7	Felt generally in the Los Angeles area. IV in Pasadena and central Los Angeles. V at Huntington Park (near the epicenter).
14	12:08:37	33 56	117 53	B	2.2	Near Brea
15	00:02:42	32 57	116 02	C	3.5	Northeast of Carrizo
15	04:16:23	33 15	116 10	C	3.4	Near Seventeen Palms
15	19:01:08	34 43	121 01	C	3.2	East of Los Alamos
16	19:53:00	34 31	117 36	B	2.5	North of Phelan
17	15:57:55	35 38	121 09	D	4.1	Felt at San Simeon (CGS)
17	16:11:30	34 38	117 05	C	2.7	Northeast of Victorville
17	21:57:01	35 52	118 30	B	3.2	Felt at Kernville
18	01:11:19	35 44	117 51	C	3.1	Northwest of Inyokern
19	17:19:49	34 51	116 47	C	2.7	East of Barstow
20	14:35:31	33	126	D	4.8	Off the coast
26	11:27:38	33 30	116 53	C	2.9	North of Aguanga (CGS)
26	19:42:31	34 06	117 00	B	2.7	Felt at Mill Creek No. 2, and Mentone
26	20:22:33	35 50	117 43	B	3.0	Northwest of China Lake
29	01:10:01	32 17	116 28	D	3.6	Lower California
29	01:57:31	31 46	116 39	D	3.5	Lower California

June	Time	Lat	Long	Mag	Depth	Location
6	04:22:43	33 57	116 30	B 3.5		Near Desert Hot Springs
13	20:54:12	36 03	117 20	C 3.5		Panamint Valley
14	01:15:50	33 13	117 44	B 3.0		Off Oceanside
15	15:48:42	34 43	116 59	C 2.6		South of Daggett
15	22:24:28	36 20	116 50	B 3.7		Death Valley
16	22:07:03	33 56	116 28	C 2.9		Near Desert Hot Springs
18	21:31:53	34 09	119 15	C 3.0		Near Oxnard
18	22:32:54	34 09	119 15	C 2.7		Near Oxnard
20	10:35:29	32 55	117 18	B 3.0		Near La Jolla. Felt at Point Loma but not La Jolla or National City (Robinson)
21	11:39:34	32 48	117 20	C 2.9		Near Ocean Beach. Felt, Point Loma (Robinson)
21	14:08:16	35 02	119 00	B 3.2		Near Wheeler Ridge
21	19:39:42	34 09	116 28	C 2.8		Northeast of Morongo Valley
21	19:53:40	32 33	117 16	C 2.8		Southwest of Imperial Beach.
24	16:46:35	34 40	118 28	C 2.5		Near Hughes Lake
24	18:13:18	32 52	117 20	B 3.1		West of La Jolla
27	16:31:37	34 04	119 02	C 2.7		Near Point Mugu
27	16:34:31	33 56	117 44	B 2.5		South of Chino

Charles F. Richter
Marion Reid
Peter Dehlinger

January 6, 1950

May 2, 1949 aftershocks; magnitude 2.9 and over
Epicenters near 34°01' N, 115°41' W., origin times, PST.



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<u>May 2, 1949</u>		<u>May 8</u>	
03:24:58	4.6 foreshock	01:11:49	3.2
03:25:47	5.9 mainshock	12:25:46	3.3
05:00:05	3.5 aftershocks		
05:26:37	3.7	<u>May 9</u>	
05:27:05	3.8	20:06:33	4.7
06:35:21	4.2	20:15:40	3.7
08:04:40	3.2		
08:21:27	3.7	<u>May 12</u>	
08:26:50	3.1	06:30:20	3.6
09:49:53	3.7	23:11:01	3.5
09:52:21	3.5		
10:04:05	3.4	<u>May 13</u>	
10:05:31	3.5	02:07:50	3.2
10:10:37	3.6	04:02:41	3.3
10:41:03	4.2		
11:01:48	3.5	<u>May 14</u>	
11:08:37	3.1	22:48:08	3.4
15:03:13	3.1		
17:47:34	3.4	<u>May 16</u>	
21:18:35	3.1	02:03:20	3.2
22:42:35	3.2		
23:00:39	3.3	<u>May 17</u>	
		01:38:42	3.5
<u>May 3</u>		03:42:32	3.4
01:52:36	3.2	18:13:17	3.3
02:13:55	3.8	23:45:48	3.2
02:24:35	3.2		
02:25:22	3.2	<u>May 19</u>	
03:26:52	3.3	03:40:05	3.3
05:47:11	3.2	06:35:19	3.5
08:57:07	2.9		
10:10:49	3.1	<u>May 20</u>	
13:10:20	3.2	03:07:40	3.6
13:11:17	3.4	05:24:35	3.7
13:26:56	3.7		
13:55:28	3.7	<u>May 22</u>	
15:40:57	3.2	15:21:27	4.0
23:04:38	3.4	16:45:32	3.7
		17:47:30	3.9
<u>May 4</u>			
00:14:30	3.4	<u>May 23</u>	
06:42:41	3.5	00:14:03	3.3
11:43:30	3.6	21:51:45	3.7
18:14:18	2.9	22:02:06	3.3
18:15:06	3.7		
18:16:04	3.7	<u>May 24</u>	
		07:52:25	3.2
<u>May 5</u>		11:25:46	3.8
01:29:39	3.6	17:57:49	3.4
18:22:52	3.4	20:21:18	3.1
18:48:31	3.2		
19:26:06	4.1	<u>May 25</u>	
19:29:33	3.2	06:27:46	3.4
20:50:10	3.5	06:49:02	2.9
		09:31:46	4.5
		17:43:46	3.2
<u>May 6</u>			
02:58:05	3.4	<u>May 26</u>	
21:44:24	3.4	07:43:39	3.9
23:55:29	3.2	07:46:19	3.4
<u>May 7</u>			
00:50:37	3.2	<u>May 27</u>	
11:32:56	3.1	15:46:54	3.8
11:48:23	3.5		

May 2, 1949 aftershocks, continued



<u>May 28</u>	
03:10:18	3.5
<u>May 31</u>	
05:54:12	3.5
10:46:41	2.9
<u>June 2</u>	
08:08:36	3.7
<u>June 4</u>	
09:02:56	3.2
<u>June 11</u>	
02:24:31	3.2
<u>June 13</u>	
11:54:17	3.2
<u>June 14</u>	
23:10:31	3.9
<u>June 15</u>	
11:03:54	3.3
<u>June 23</u>	
06:13:26	3.5
<u>June 25</u>	
12:00:40	3.5
<u>June 26</u>	
14:21:25	3.4
<u>June 28</u>	
19:44:35	3.3
<u>June 29</u>	
23:50:11	3.3
<u>June 30</u>	
02:30:22	3.3

PASADENA LOCAL SHOCKS

July, August, September 1949

International
Seismological
Centre

No. 3

Date	P. S. T.	Lat.	Long.	Q	M	Remarks
<u>July</u>						
1	09:02:46	34 06	118 30	C	2.5	North of Santa Monica
1	19:26:47	33 48	118 03	B	2.3	Near Los Alamitos
1	20:00:44	33 42	118 10	B	2.5	Off Long Beach
3	01:50:21	34 06	117 18	C	3.1	Near San Bernardino
3	20:43:21	34 50	116 55	B	2.8	Near Daggett
5	01:14:31	33 40	119 20	C	2.8	Southeast of Santa Cruz Island
9	12:31:34	35 47	117 59	B	3.0	Northeast of Walker Pass
9	20:26:01	33 54	118 28	B	3.2	Off Manhattan Beach, Felt West Los Angeles, Huntington Park, Redondo Beach (CGS)
10	05:53:32	34 28	116 51	B	2.6	Southwest of Lucerne Valley P. O.
11	01:52:25	34 01	115 41	C	3.5	Aftershock of May 2 03h
11	13:06:52	34 01	115 41	C	3.6	Aftershock of May 2, 03h
11	16:13:12	32 01	116 00	C	3.9	Lower California
12	10:46:11	35 25	117 43	B	3.0	Near Garlock
12	11:17:26	35 22	117 38	C	3.4	Felt, Cantil (CGS)
12	13:56:26	33 13	116 17	C	3.3	Near Borego P. O.
13	17:50:29	33 42	117 45	B	2.4	Southeast of Santa Ana
14	00:14:33	34 47	119 08	C	3.0	Near Mount Pinos
15	04:55:34	35 20	117 45	C	3.0	Southwest of Randsburg
15	20:55:05	35 00	116 58	B	3.0	Northeast of Barstow
16	07:42:20	34 01	117 15	B	2.7	East of Riverside
17	19:28:04	33 39	118 16	C	2.5	Near Wilmington
18	04:21:53	33 03	116 49	C	3.0	East of Ramona
18	12:14:29	33 49	117 38	A	2.9	Santa Ana Mountains
18	18:13:21	33 58	116 39	C	2.6	North of Whitewater
20	08:35:00	34 01	115 41	C	3.6	Aftershock of May 2, 03h
20	08:40:28	34 01	115 41	C	3.7	Aftershock of May 2, 03h
24	10:50:14	32 21	117 48	C	3.6	Off San Diego. Felt, Mt. Helix (CGS) (near Grossmont).
24	10:54:07	32 21	117 48	C	3.4	Off San Diego
25	12:02:01	33 58	116 37	C	3.1	Northeast of Whitewater
26	00:24:24	34 01	115 41	C	3.3	Aftershock of May 2, 03h
26	02:24:01	34 01	115 41	C	3.3	Aftershock of May 2, 03h
26	06:18:18	33 59	116 48	C	3.1	North of Cabazon
26	20:00					Insufficient data
27	10:21:35	34 32	120 22	C	3.6	Northeast of Point Concepcion
29	00:35:14	35 03	118 53	C	2.8	North of Grapevine
29	05:19:36	34 01	115 41	C	3.5	Aftershock of May 2, 03h
29	05:52:18	34 01	115 41	C	3.2	Aftershock of May 2, 03h
29	08:06:00	33 43	117 08	B	2.3	Southeast of Perris
30	02:25:03	34 52	116 55	C	2.5	Near Daggett
30	13:09:39	33 39	118 13	B	2.7	Off Long Beach. Felt in Long Beach (not in Harbor area) (CGS).
30	17:27:44	35 47	118 27	C	3.0	West of Walker Pass
30	18:05:00	33 59	116 28	C	3.0	Northeast of Seven Palms Well
31	16:07:10	36 04	121 38	D	3.8	Near Lucia (southeast of Monterey)
31	16:24:12	34 55	116 43	C	3.0	East of Yermo
<u>August</u>						
3	17:24:29	32 43	117 21	B	2.5	Off San Diego
3	19:38:31	33 46	116 21	C	2.7	North of Indian Wells
3	21:06:39	34 57	116 42	B	3.3	Northeast of Yermo
5	06:42:43	34 04	116 24	B	2.8	East of Morongo Valley P. O.
6	02:09:20	32 40	115 59	C	3.3	East of Mountain Springs
6	12:36:35	33 53	116 57	B	2.5	Near Gilman Hot Springs
6	15:30	33 51	117 30			Corona Blast
10	01:37:08	33 45	115 50	C	3.4	Near Cottonwood Springs
10	16:09:30	33 50	115 53	B	3.4	Pinto Basin
12	07:12:15	33 53	115 59	C	3.2	North of Cottonwood Mountains
12	16:57:31	32 51	117 00	B	2.3	Near El Cajon
15	21:33:30	33 57	115 57	C	3.0	Pinto Basin
16	01:03:27	33 51	116 16	C	2.5	Near Thousand Palms



August

16	02:58:02	35 00	116 29	C	2.9	Northeast of Manix
16	21:14:19	34 00	117 12	A	3.4	East of Riverside. Felt in Riverside (CGS)
19	02:57:51	33 57	116 53	A	3.8	Near Banning. Felt in Palm Springs (CGS)
19	14:34:21	33 54	115 41	C	3.0	Pinto Basin
20	21:38:23	37 04	117 13	C	3.8	Death Valley
21	17:51:56	33 56	116 00	C	3.0	Near Pinto Basin (May 2 aftershock?)
21	18:41:38	33 57	115 55	C	3.0	Pinto Basin (May 2 aftershock?)
22	06:08:52	33 20	119 19	C	3.0	west of Santa Barbara Island
24	03:16:40	30.7	113.7	D	4.2	Mexico (Sonora)
25	03:27:38	34 03	115 52	C	3.2	Pinto Basin
26	08:52:32	34.5	120.5	D	4.2	Near Point Concepcion. Felt: San Luis Obispo to Point Arguello, (CGS)
27	02:34:30	33 30	116 36	B	2.8	Southeast of Anza
27	06:51:46	34.5	120.5	D	4.9	Near Point Concepcion. Felt: San Luis Obispo to Santa Barbara (CGS)
27	07:35:42	33 48	120 17	C	3.7	Southwest of Santa Rosa Island
27	07:54:28	33 51	120 18	C	4.0	Southwest of Santa Rosa Island
27	14:48:33	33 41	118 11	B	3.0	San Pedro Harbor
27	19:47:54	35 47	118 10	B	3.5	Northwest of Walker Pass (CGS)
29	04:07:21	36.2	120.2	D	3.8	East of Coalinga. Felt, Kettleman City/
29	19:20:43	35 50	116 40	C	2.7	South of Death Valley
31	02:58:42	34 06	117 19	B	2.9	Near Colton

September

2	09:50:37	34 55	116 24	C	3.1	Cady Mountains (southeast of Manix)
5	14:44:34	33 58	116 52	B	2.6	North of Banning
5	14:59:17	33 54	118 40	B	2.6	Santa Monica Bay
6	23:02:04	33 47	120 38	C	3.5	Southwest of Santa Rosa Island
7	17:15:43	33 04	118 30	B	2.8	South of Catalina Island
9	03:26:50	33 53	119 05	C	3.4	South of Point Mugu
13	12:04:45	33 38	116 04	C	3.2	Southeast of Coachella
14	05:57:30	32 20	116 37	C	3.3	Mexico, south of Tecate
14	12:49:50	30.7	114.9	D	4.4	Lower California
16	07:45	31?	115?	D	4.8	Mexico. Several aftershocks
16	12:45	31?	115?	D	5.1	Mexico
16	17:05:52	34 38	118 20	C	2.6	Southeast of Elizabeth Lake
17	08:21:57	35 49	118 30	C	3.1	Northwest of Kernville. Felt Kern River #3 (CGS)
18	21:08:13	33 58	118 12	B	3.1	Huntington Park. Felt in the Los Angeles area
19	20:14:11	34 53	116 40	B	4.1	North of Newberry. Felt Yermo (CGS)
19	23:39:31	32 19	116 22	C	3.2	Mexico (south of Campo, California)
21	14:00:41	34 11	118 40	C	3.1	Near Calabasas
21	17:04:23	34 27	118 35	C	2.5	Northwest of Newhall
22	07:20:29	33 40	118 13	B	2.3	South of Long Beach
22	20:35:35	33 58	118 57	B	3.2	Southwest of Point Dume. Felt, southeast of Oxnard, Cornell (CGS)
22	20:54:25	33 30	116 33	C	2.9	Southeast of Anza
23	13:44:40	34 00	116 40	B	4.0	North of whitewater (felt at Palm Springs, - CGS)
29	02:53:58	34 10	117 14	C	2.3	Near Arrowhead Springs. Felt at San Bernardino, north part only (AP telephone)
29	18:08:01	32 52	117 15	B	2.4	Near La Jolla
29	18:08:24	32 52	117 15	B	2.4	Near La Jolla
30	01:03:29	35 03	116 54	C	2.9	Northeast of Barstow
30	20:23:05	34 08	117 16	B	2.3	Near Patton. Felt at San Bernardino (Press)

Additional:

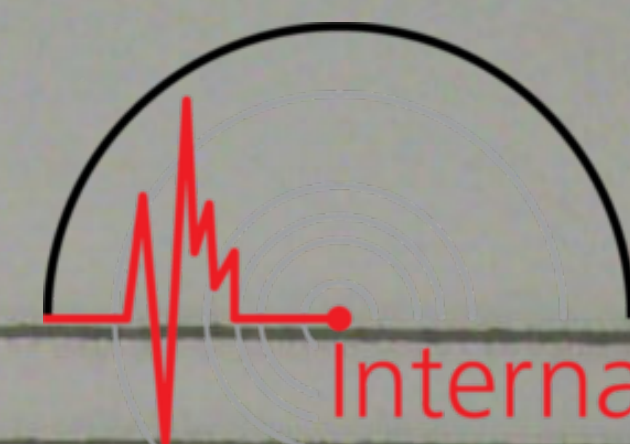
August

26	21:00:32	33 52	118 16	C	2.3	Southeast of Gardena
30	12:56:45	36 35	117 37	C	3.0	East of Saline Valley

PASADENA LOCAL SHOCKS

October, November, December 1949

No. 4

International
Seismological
Centre

Date	P.S.T.	Lat.N	Long.W	Q	M	Remarks
<u>October</u>						
4	09:13:04	33 59	116 51	B	2.6	North of Banning
4	18:52:08	32 59	117 16	C	2.3	Near Del Mar
5	20:12:20	33 54	115 48	C	3.4	Pinto Basin
10	16:25:55	34 00	116 26	B	3.0	Northeast of Seven Palms Well
11	21:18:00	33 33	116 47	B	2.7	Near Cahuilla
12	20:20:40	33 51	115 51	B	4.0	Pinto Basin. Felt, Indio (CGS)
13	16:29:25	33 11	116 23	C	4.1	Near Borego Postoffice. Felt, Borego Valley, Dulzura, Mt. Helix (CGS)
13	16:46:36	33 11	116 23	C	3.2	Borego Valley, aftershock
15	15:15:01	34 58	116 57	C	2.8	Northeast of Barstow
16	00:01:47	33 29	116 47	A	2.8	Southwest of Cahuilla
16	08:05:22	37 40	118 40	C	3.1	Northern Owens Valley. Felt (IV) at Long Valley Dam, (CGS)
17	05:20:57	33 57	116 38	B	3.5	Northeast of Whitewater. Felt at Palm Springs and at mouth of Snow Creek Canyon (CGS, press)
18	20:50:33	33 33	116 47	B	2.7	Near Cahuilla
19	19:26:35	37 40	118 40	C	3.5	Northern Owens Valley. Felt Long Valley Dam (CGS)
21	00:18:32	34 15	118 10	B	2.4	Near Mt. Wilson; blast?
21	14:17:40	33 31	116 47	B	2.9	Near Cahuilla
22	05:16:39	35 29	118 10	C	2.4	South of Walker Pass
22	06:07:48	35 05	116 34	C	2.8	North of Manix
22	13:45:16	36.5	121.3	D	4.7	Near Soledad
23	17:52:58	37 45	118 31	C	3.3	Near Benton
23	18:22:33	37 40	118 18	C	4.1	Southeast of Benton
24	19:05:08	35 44	118 05	C	2.7	North of Walker Pass
26	12:43:50	33 30	116 33	B	3.2	Southeast of Anza
28	05:22:33	34 03	115 48	B	3.2	Pinto Basin
28	12:00:20	33 59	116 38	C	2.6	Northeast of Whitewater
28	20:16:24	33 50	117 43	B	2.2	East of Olive
29	14:27:40	34 01	115 59	C	2.9	Northeast of Pinto Basin
29	22:09:55	35 50	117 35	C	2.0	Near China Lake
31	14:53:24	34 06	116 40	C	2.7	Morongo Valley
<u>November</u>						
1	02:59:28	33 59	115 45	C	3.2	Pinto Basin. Two shocks 6 seconds apart.
1	02:59:34	33 59	115 45	C	3.5	Pinto Basin
1	18:29:29	37.5	113.1	D	4.7	Southwest Utah. VI at St. George (CGS)
2	15:08:21	33 46	120 29	C	3.6	Southwest of Santa Rosa Island
4	12:42:38	32 12	116 33	C	5.7	Near Guadalupe (Baja California Mexico). Minor damage at that locality (intensity probably not over VI). V at San Diego and in southern Imperial Valley. Felt as far as Los Angeles. Aftershocks numerous; see list at end of this issue.
4	20:35:24	32 12	116 33		5.1	Aftershock; felt in San Diego County and as far as Whitewater (CGS)
5	12:02:07	32 12	116 33		4.0	Aftershock; felt San Diego, Jamul, (CGS)
6	15:05:10	32 12	116 33		4.0	Felt, Dulzura, Hipass, Campo (CGS)
7	08:40:10	33 55	117 43	B	2.2	East of Yorba Linda
8	02:03:33	33 09	116 10	B	3.0	Borego Valley
9	21:17:27±	36.4	121.4	D	3.8	Near Soledad
10	08:43:54	34 06	118 10	B	2.0	Near Alhambra
10	15:24:46	34 06	118 31	B	3.0	Northeast of Pacific Palisades
11	05:54:00	32 12	116 33		4.2	Aftershock of Nov. 4. Felt Carrizo Gorge, Coronado, San Diego, Campo (CGS)
11	06:34:21	35 45	118 06	B	3.2	North of Walker Pass
13	08:58:05	34 06	115 46	C	3.4	Pinto Mts.
Addition:						
<u>October</u>						
13	17:02:36	33 11	116 23	C	3.4	Near Borego postoffice, after- shock



November

13	16:21:26	34 55	116 46	B	3.7	East of Yermo
14	09:12:43	37 29	118 25	C	3.8	North of Bishop
16	04:46:12	33 59	118 32	B	2.4	Santa Monica Bay
16	21:06.1	34.8	120.7	D	2.8	Felt, Santa Maria, 21:30 (CGS)
17	16:23:30	35 41	118 01	B	2.6	Near Walker Pass
17	17:19:52	33 45	118 15	C	3.7?	Felt, Long Beach, San Pedro (CGS). Damage to many oil wells in the area of Terminal Is.
20	20:12:34	34 18	117 06	B	2.7	Northwest of Big Bear Lake
22	01:40:54	33 53	118 21	B	2.2	West of Gardena. Felt in southwest Los Angeles (press) (CGS)
23	05:20:01	35 51	117 48	B	2.6	Northwest of China Lake. Felt Nine Mile Aqueduct Station, Little Lake (CGS)
24	06:07:35	34 03	117 16	B	2.1	Near Loma Linda
24	11:02:37	33 59	116 28	B	2.8	Near Desert Hot Springs
30	09:40:50			C	1.6	Very near China Lake

December

1	11:54:19	34 10	116 32	C	2.8	North of Morongo Valley
3	10:00:00	33 59	118 33	C	2.2	Santa Monica Bay
3	23:31:51	34 36	118 36	C	2.4	North of Castaic
5	01:44:11	33 55	118 16	C	2.3	Near Compton
8	12:44:41	36 55	117 15	C	3.3	North of Death Valley
8	20:34:49	36 04	117 40	B	3.1	Near Coso Hot Springs
9	00:41:18	37 28	118 22	C	4.1	North of Bishop. Foreshock of next. Felt at Bishop, Laws, Yosemite, etc. (CGS)
9	04:39:02	37 28	118 22	C	4.6	North of Bishop. Felt at Bishop, Big Pine, June Lake, etc. (CGS)
9	18:13:44	33 46	117 43	B	3.1	East of Santa Ana
10	06:50:15	33 53	116 29	B	3.2	Northeast of Palm Springs
10	07:46:53	34 03	118 30	B	3.2	Near Santa Monica. Felt there (Press)
11	19:32:33	33 53	115 35	C	3.1	Eagle Mountains
11	19:36:53	34 03	115 53	B	3.1	Southeast of Twenty-nine Palms
11	21:18:04	34 03	115 53	C	3.0	Southeast of Twenty-nine Palms
12	07:03:31	33 48	117 03	C	2.6	West of San Jacinto
12	21:25:05	34 04	118 29	C	3.0	Near Santa Monica; felt there and at West Los Angeles (Press)
13	01:46:46	34 04	118 29	C	2.6	Near Santa Monica
13	06:23:42	33 52	118 20	B	2.1	Northwest of Torrance
13	06:32:56	34 53	116 38	B	2.9	Southwest of Manix
14	04:33:01	32 20	116 34	C	2.9	Lower California (south of Potrero). Aftershock of November 4?
14	09:32:21	37 52	116 20	C	3.9	Kawich Valley area, Nevada
15	01:48:52	34 25	116 55	B	3.0	Lucerne Valley
18	11:12:40	35 02	116 53	B	3.4	Northeast of Barstow
18	19:30:08	35 46	118 00	C	2.5	Northeast of Walker Pass
20	15:30:47	34 15	118 30	B	2.8	Near Reseda
20	23:34:00	33 58	115 59	B	3.0	Pinto Basin
22	01:59:38	33 58	115 59	C	3.2	Pinto Basin
25	01:41:06	36 08	117 57	B	2.1	Near Haiwee
25	14:02:30	36 08	117 57	B	1.6	Near Haiwee
26	06:27:40	34 00	118 20	C	2.8	Felt, Inglewood and southwestern Los Angeles (Press)
26	23:26.7				1.6	Near China Lake
26	23:28.5				1.7	Near China Lake
27	05:53.9				2.0	Near China Lake
27	15:19.1				1.6	Near China Lake
28	18:28:16	35 50	118 02	B	2.2	North of Walker Pass
29	03:35:38	34 02	118 25	B	1.7	Near Culver City. Felt by a few in Inglewood (Inglewood News, telephone)
30	03:13:48	32 12	116 48	C	3.3	Felt, four miles east of Campo (CGS). Aftershock of November 4?
30	12:27:38	33 52	118 12	C	2.0	South of Downey

December

30	15:14:18	32 12	116 28	C	3.4	Aftershock of November 4
30	22:16:06	35 52	117 35	B	2.2	Near China Lake (Similar)
	smaller shock at 22:40)					
31	14:30:07	34 12	117 31	C	2.7	North of Etiwanda
31	20:02:38±			C	2.3	Near Haiwee



Correction: April 3, 1949. For 34⁰59' read 33⁰59'

Aftershocks (magnitude 2.9 or over) of November 4, 1949 shock (12:42:38); lat. 32:12 N, long 116:33 W, (M = 5.7); southeast of Tijuana, Lower California

November 4, 1949	Magnitude	November 6	
12:42:38	5.7 main shock	00:38:01	2.9
12:46.8	3.8	11:17:48	3.4
12:52:35	3.4	15:05:10	4.0
12:56:17	3.5	17:09:32	3.2
13:01:30	3.0	17:27:57	3.0
13:02:57	3.2		
13:10:13	3.4	November 7	
13:32:45	3.1	17:19:16	3.4
13:40:02	2.9	17:19:41	3.6
14:05:07	3.3	23:43:32	3.0
14:55:50	3.9		
14:58:29	2.9	November 9	
15:24:56	3.5	16:14:00	3.4
15:33:56	3.5		
17:13:57	3.4	November 10	
17:15:37	3.0	04:44:57	3.6
17:52:42	3.0	21:34:24	3.7
18:19:42	2.9		
18:29:44	3.0	November 11	
18:41:42	3.7	06:54:00	4.2
19:22:42	3.0	22:01:37	3.5
20:02:01	3.1		
20:28:51	3.5	November 12	
20:35:24	5.1	00:15:23	3.3
22:14:38	2.9		
22:42:58	3.7	November 14	
		19:18:06	3.3
November 5			
12:02:07	4.0	December 30	
19:44:02	3.2	03:13:48	3.3
		15:14:18	3.4

C. F. Richter
 Peter Dehlinger
 May 23, 1950