

PASADENA, LOCAL SHOCKS

January, 1939.



Date	P.S.T.	Lat.	Long.	Q	M	Remarks
1	16:49	33°34'	117°59'	C	3	Off Newport Beach. Felt at Long Beach. (CGS)
	19:26	33 37	118 02	C	2.5	Off Huntington Beach.
2	08:01	33 34	117 59	C	2.5	Off Newport Beach.
3	09:39	36 00	117 44	B	2.5	Same as 12h 58m following.
	09:44	36 00	117 44	B	3	" " "
	09:50	36 00	117 44	B	3	" " "
	09:56	36 00	117 44	B	3	" " "
	10:02	36 00	117 44	B	2.5	" " "
	12:58	36 00	117 44	B	3.5	Near Coso Hot Springs.
	23:41	34 13	117 12	C	2.5	San Bernardino Mountains.
4	02:49	34 13	117 12	C	3	San Bernardino Mountains. Felt at Crestline. (CGS)
5	14:58	33 59	118 18	C	3	Southwest Los Angeles.
7	12:21	36 00	117 44	B	5	Near Coso Hot Springs. 22 small aftershocks recorded at Haiwee.*
	12:34	36 00	117 44	B	3	Near Coso Hot Springs.
9	08:18	36 00	117 44	B	3.5	Near Coso Hot Springs.
	19:26	31.7	115.1	D	4	Near head of Gulf of California.
11	14:00	39.0	119.2	D	5.5	Nevada.
12	08:00	33 00	116 55	C	3	Near Ramona, San Diego County.
	11:04	33 44	116 40	C	3	Near Palm Springs.
15	01:07	33.3	116.3	D	2.5	San Jacinto fault near Clark Lake?
	15:00	36 00	117 44	B	3	Near Coso Hot Springs.
18	08:17	33 28	116 35	C	3	San Jacinto fault, Coahuila Valley.
21	01:15	33 47	118 08	B	3	Near Long Beach.
	09:47	33 45	116 30	C	2.5	Near Cajalco Reservoir.
	15:45	34 31	117 18	B	3	Near Victorville.
	20:51	31.7	115.1	D	4	Near head of Gulf of California.
	20:59	31.7	115.1	D	4.5	Near head of Gulf of California.
22	07:52	34.4	119.7	C	2.5	Near Santa Barbara.
24	18:55	38.2	118.6	D	3	Mineral County, Nevada.
25	16:08	32 53	118 15	C	2.5	Off San Clemente Island.
27	14:04	33 00	116 15	C	3	Vallecito Mountains.
	23:22	31.7	115.1	D	4.5	Near head of Gulf of California.
30	06:30	36.0	114.8	C	3.5	Near Boulder Dam. Felt at Boulder City (CGS)
	20:10	33 20	116 58	B	3	Vicinity of Palomar Mountain. Felt at Escondido. (P)
31	08:16	32 27	115 37	C	4	Lower California.

*January 7^d12^h21^m felt at Darwin, Bodfish, Trona, Kernville, Isabella, Sequoia National Park, Argus Range and Little Lake districts. (P, CGS)

PASADENA, LOCAL SHOCKS

No. 2

February, 1939

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
2	18:29	33°28'	116°35'	C	3.5	San Jacinto fault. Coahuila Valley.
4	15:41	33 59	118 18	B	3	Southwest Los Angeles. Felt in Los Angeles (P), Maywood (CGS).
6	02:15	33 47	118 08	B	3	Near Long Beach. Felt in Long Beach (P), Lomita (CGS).
7	07:21	33 05	115 59	C	3.5	San Jacinto fault at Carrizo Creek.
	07:32	33 05	115 59	C	3	Same as preceding.
8	22:44	33 56	120 29	C	3	Near Parkfield, Monterey County.
9	05:13	33 05	115 59	C	2.5	San Jacinto fault at Carrizo Creek.
11	00:34	33 59	118 18	B	3	Southwest Los Angeles. Felt in Wilshire district (P).
	06:40	33 05	116 10	C	3	San Jacinto fault west of Salton Sea.
	16:54	33 37	118 25	C	2.5	San Pedro Channel.
	19:12	34 25	119 50	B	3	Near Santa Barbara. Felt: Santa Barbara, Goleta (P).
13	17:01	34 02	117 41	B	2.5	Near Chino.
14	10:01	33 00	116 15	C	3	Vallecito Mountains.
17	21:57	31.5	116.5	D	4	Lower California.
18	10:47	33 56	116 45	B	3	Near Cabezon, Riverside County.
19	14:58	32.5	116.2	D	3	Lower California.
	21:48	36 00	117 44	C	3.5	Near Coso Hot Springs.
	21:48	36 00	117 44	C	3.5	Same as preceding. 17 seconds later.
21	14:54	32 32	116 11	C	3	Lower California.
22	02:30	32 32	116 11	C	4	Lower California.
23	00:45	34 49	119 00	B	4.5	San Andreas fault, Cuddy Valley. Felt*
	00:58	34 49	119 00	B	3	Aftershock.
	01:18	34 49	119 00	B	4.5	Cuddy Valley. Felt*
	01:33	34 49	119 00	B	3.5	Aftershock.
	01:46	34 49	119 00	B	3	Aftershock.
	02:25	34 49	119 00	B	3.5	Aftershock.
	14:44	33 12	116 17	B	3	San Jacinto fault west of Salton Sea.
24	04:05	33	109	D	4.5	Arizona?
	20:28	33	109	D	4.5	Arizona?
25	06:15	36 00	117 44	C	3.5	Near Coso Hot Springs.
	20:30	33 15	115 53	C	3	Western shore of the Salton Sea.
26	15:27	33	109	D	5.5	Arizona?
	20:36	33 09	116 35	B	3	Agua Caliente fault vicinity of Verruga.
27	00:36	35 52	117 52	B	3.5	South of Haiwee.

*Reports confused. One or other or both these shocks reported felt at: Ventura, Saticoy, Fillmore, Santa Paula, Piru, Oxnard, Camarillo, Hollywood, Lancaster, Bakersfield, San Fernando Valley, Glendale, Van Nuys, Acton, Sandberg, Maricopa, Saugus, Tehachapi, Tujunga, T8N R20W (P, CGS).

Correction: January 21^d09h47^m should read: 33°45' 117°30'

C. F. Richter

R. E. Rogers

PASADENA, LOCAL SHOCKS

No. 3

March, 1939

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
1	12:51	35°52'	117°52'	C	3	South of Haiwee.
2	05:13	34 11	116 38	B	3.5	San Bernardino Mountains.
7	11:53	34 49	119 00	B	4	Cuddy Valley. Felt: T8N R20W (CGS).
10	22:59	34 35	118 40	C	3	Vicinity of Castaic.
11	05:00	33 34	117 59	C	2	Off Newport Beach. Felt at Huntington Beach (CGS).
15	11:39	33 34	117 59	B	3	Off Newport Beach. Felt at Westminster (CGS).
	12:49	35 00	117 00	C	2.5	Mojave Desert vicinity of Barstow. Blast?
	19:11	36 00	117 44	C	2.5	Near Coso Hot Springs.
16	00:31	33 47	118 08	C	2.5	Near Long Beach.
20	14:18	36 00	117 44	C	2.5	Near Coso Hot Springs.
	22:12	34 05	116 28	C	3	Little San Bernardino Mountains.
	22:26	34 05	116 28	C	3	Little San Bernardino Mountains.
21	00:35	32 27	115 37	C	3	Lower California. Felt: El Centro, Calexico (CGS).
	05:51	32 27	115 37	C	4	Lower California. Felt: Calexico, Hipass, Imperial, Seeley (CGS).
22	07:37	32 32	116 11	C	3	Lower California.
	11:16	34 45	116 10	C	4	Near Ludlow. Felt there (CGS). May be deeper than usual.
23	09:37	33 28	116 35	C	3.5	San Jacinto fault, Coahuila Valley.
	18:49	34 33	120 47	C	3.5	Off Point Arguello.
24	18:59	32 27	115 37	C	4	Lower California. Felt: El Centro, Calexico, Holtville, Imperial, Seeley (CGS, P).
	19:25	32 27	115 37	C	3.5	Felt: El Centro (P).
25	05:54	32 27	115 37	C	3.5	Felt: Heber, El Centro (CGS).
28	00:15	33 47	117 23	B	3	The Gavilan District.
29	05:10	33 50	116 37	B	2.5	Near Palm Springs.
30	02:11	34.5	119.8	C	2.5	Near Santa Barbara.

C. F. Richter

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PASADENA, LOCAL SHOCKS

No. 4

April, 1939

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
1	11:35	34°23'	116°31'	C	3	Mojave Desert.
	19:24	33 05	117 50	C	3.5	Off the coast, San Diego County.
2	18:50	34 12	117 05	C	4	San Bernardino Mountains. Felt: Lake Arrowhead, Big Bear, Victorville, Loma Linda Sanitarium. (CGS)
	23:10	37 27	119 00	C	4	Sierra, south of Mammoth.
5	09:42	34 14	117 12	B	2.5	San Bernardino Mountains.
7	01:24	33 43	118 48	C	2.5	Vicinity of Sandberg.
	04:30	33 50	117 35	C	3	Elsinore fault near Prado.
8	16:08	36.3	118.1	D	3	West shore Owens Lake.
9	02:47	34 00	116 25	C	2.5	Vicinity Mojave River Sink.
11	11:10	34.8	117.1	C	2.5	Southwest of Barstow.
12	19:22	33 53	118 09	B	2	Near Norwalk.
14	21:02	34 50	119 00	C	2.5	Vicinity of Stauffer, Ventura County.
15	02:41	32 27	115 37	C	3.5	Lower California. Felt: El Centro, Calxico. (P, CGS)
	07:52	32 27	115 37	C	3.5	Lower California. Felt at El Centro. (P, CGS)
16	19:17	32 27	115 37	C	3.5	Felt at El Centro. (P, CGS)
17	08:59	33 47	118 08	B	2.5	Near Long Beach. Felt there. (P)
	18:53	32 27	115 37	C	3.5	Lower California.
18	23:41	32 35	117 48	B	4.5	Off San Diego. Felt: San Diego, Coronado, Point Loma, Lakeside. (P, CGS)
19	05:29	33 28	116 35	C	3	Terwilliger Valley.
22	17:49	33 28	116 35	B	3	Terwilliger Valley.
24	01:51	32 32	118 08	B	3	Off San Diego.
	02:18	32 32	118 08	C	3	Off San Diego.
	13:15	31	114	D	4	Head of Gulf of California?
	22:22	33 47	118 08	B	3	Near Long Beach. Felt: Seal Beach, Signal Hill, Huntington Park, North Long Beach. (P, CGS)
26	07:40	36 09	117 57	B	3	Near Haiwee.
	08:13	36 09	117 57	B	3	Near Haiwee.
28	13:59	39	117	D	4.5	Nevada.

C. F. Richter

R. E. Rogers



Date	P.S.T.	Lat.	Long.	Q	M	Remarks
1	12:22	32°00'	117°30'	B	4	Felt in San Diego. (CGS)
	13:54	40	124	D	4.5	Felt in Humboldt County. (P)
	15:53	32 00	117 30	B	5	Felt in San Diego. (P, CGS)
	15:57	32 00	117 30	B	4.5	Off coast of Lower California.
2	05:15	29.5	113.8	D	6.5	Gulf of California. Felt in San Diego. (P, CGS). Epicenter by USCGS.
	05:17	29.5	113.8	D	6.5	Felt in San Diego. (CGS)
	05:39	29.5	113.8	D	5	Gulf of California.
	10:49	35 56	120 29	C	4	Near Parkfield, Monterey County.
	23:55	34 33	120 47	C	3	Off Point Arguello.
3	00:28	32 00	117 30	B	4	Felt in San Diego. (CGS)
	15:58	32 00	117 30	B	4.5	Felt in San Diego. (CGS)
4	12:44	36.0	114.8	C	5	Near Boulder Dam. Felt there. (P,CGS)
	13:53	36.0	114.8	C	4	Felt at Boulder Dam. (CGS)
	14:36	36.0	114.8	C	4	Felt at Boulder Dam. (CGS)
	14:37	36.0	114.8	C	3.5	Felt at Boulder Dam. (CGS)
7	02:26	33 46	117 55	C	2.5	Near Santa Ana.
	04:31	36.0	114.8	C	3.5	Felt at Boulder Dam. (CGS)
	11:32	36.0	114.8	C	3.5	Felt at Boulder Dam. (CGS)
	18:48	34 49	119 00	B	4.5	Cuddy Valley. Felt: Maricopa, T8NR20W (CGS)
10	18:42	38	118	D	4.5	Nevada.
11	09:07	32 54	118 22	B	3	Near San Clemente Island.
	10:04	38 35	117 50	C	5.5	Near Mina, Nevada. Felt: Mina, Manhattan, Reno. (P)
	12:59	38 35	117 50	C	4.5	Near Mina, Nevada.
	22:42	38 35	117 50	C	3.5	Same as preceding.
	23:49	38 35	117 58	C	4	Same as preceding.
12	11:25	33 28	116 35	B	4.5	Terwilliger Valley. Felt: Indio, Hemet, San Jacinto, Warners Springs, Mecca, Thermal, Lakeside. (P, CGS)
	12:54	33 50	118 00	B	2.5	Felt in Long Beach. (CGS)
	18:49	38 35	117 50	C	4.5	Nevada.
13	13:08	38 35	117 50	C	3.5	Nevada.
	23:59	37 30	118 32	C	3.5	Near Laws, California.
14	04:26	33 44	118 20	B	3	San Pedro Hills.
	09:24	35 05	117 23	C	2.5	Mojave Desert.
16	19:42	37 30	118 32	C	4	Near Laws.
	21:18	33 43	117 31	C	2.5	Elsinore fault northwest of Elsinore.
17	03:07	36 10	117 50	B	3	Near Haiwee.
	10:19	38 35	117 50	C	4.5	Near Mina, Nevada.
18	15:00	35 48	120 20	C	3	Near Parkfield.
19	19:12	38 35	117 50	C	4	Near Mina, Nevada.
21	11:59	37 30	118 32	C	4	Near Laws, California. Felt there. (CGS)
23	15:39	34 55	116 55	C	3.5	Near Barstow.
	19:46	36.0	114.8	C	3.5	Near Boulder Dam.
24	09:15	34 20	117 00	B	3.5	San Bernardino Mountains.
27	06:49	33 52	117 38	C	3	Near Prado.
29	20:09	33 50	117 30	C	3.5	Near Cajalco reservoir.
30	03:06	33 28	116 35	C	2.5	Terwilliger Valley.

Other shocks from epicenter at 32°00' 117°30':

Date	P.S.T.	M	Date	P.S.T.	M	Date	P.S.T.	M
1	08:52	3.5	2	18:30	2.5	5	13:08	3
	17:00	3.5	3	10:36	3.5	6	06:43	3
	19:45	2.5		16:28	3		23:31	3
	20:18	2.5		19:00	3.5	8	22:28	3.5
2	03:49	3.5	5	03:37	3	28	21:24	3.5



Date	P.S.T.	Lat.	Long.	Q	M	Remarks
3	17:20	33	109	D	4.5	Felt: Silver City, N. M., Duncan, Franklin, Clifton, Arizona.
8	07:31	33°37'	118°02'	C	2.5	Off Huntington Beach.
	17:57	32 48	118 08	B	3	Southeast of San Clemente Island.
10	04:27	34.7	116.5	C	3	Mojave Desert.
12	10:05	37 01	117 15	C	3.5	North end of Death Valley.
	10:08	37 01	117 15	C	3.5	Same as preceding.
	10:24	37 01	117 15	C	3.5	Same as preceding.
13	09:15	37 01	117 15	B	5	Felt: Darwin, Tinemaña. (CGS)
15	08:40	34 20	118 20	B	2	Northwest of Pasadena. Blast?
	13:12	34.5	119.7	C	2.5	Near Santa Barbara.
18	03:42	33 28	116 58	C	2.5	Agua Caliente fault near Aguanga.
19	14:18	32 00	117 30	C	2.5	Off coast of Lower California.
20	09:53	35 42	118 22	C	3	Sierra Nevada near Kernville. Felt there.
21	03:28	38.6	117.8	D	4.5	Near Mina, Nevada.
23	12:48	32 00	117 04	C	4.5	Off coast of Lower California.
24	00:40	33 05	116 15	B	3	Vallecito Mountains.
	05:01	36.4	121.0	C	5.5	Felt: Salinas, Hollister, Gilroy, etc. Minor damage at San Benito and Cienega.
	08:27	32 00	117 30	B	5	Felt generally, southwestern San Diego County. Aftershocks listed at end of report.
	17:09	32 00	117 30	C	4	Off coast of Lower California.
	17:48	32 00	117 30	C	4.5	Same as preceding.
25	00:57	30	113	D	4.5	Gulf of California.

Other shocks from epicenter at 32°00' 117°30':

Date	P.S.T.	M	Date	P.S.T.	M	Date	P.S.T.	M
24	09:02	3.5	24	09:56	3	24	18:10	3.5
	09:07	3		10:10	2.5	25	04:14	2.5
	09:12	3		12:46	2.5		09:11	3
	09:37	3		13:30	2.5		17:34	3.5
	09:51	2.5		17:42	3.5			

July, 1939.

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
4	02:49	36.4	121.0	C	4	Felt at Salinas. (P)
	04:52	34°01'	116°35'	B	3.5	Mill Creek fault, San Bernardino Mts.
	13:44	31 40	115 05	C	4.5	Lower California.
8	11:40	35 00	117 00	C	2.5	Mojave Desert north of Barstow.
10	06:15	33 11	118 02	B	3.5	Southeast of Santa Catalina Island. Felt at Avalon. (P)
15	08:26	33 44	116 40	B	3	Near Palm Springs.
16	22:58	33	109	D	4.5	Arizona-New Mexico.
17	01:24	37	122	D	4.5	Felt: Watsonville, San Francisco. (P)
	20:58	34 01	117 16	B	2.5	Near Riverside.
21	08:56	35 05	118 18	C	3	Garlock fault near Cameron.
22	08:29	33 59	118 23	B	2.5	Inglewood fault southwest of Los Angeles.
24	00:41	34 49	119 00	C	2.5	Near Stauffer, Ventura County.
	12:35	32 00	117 30	C	3.5	Off coast of Lower California.
25	03:22	36 08	117 55	B	3	Near Haiwee.
27	16:03	33 43	118 05	C	2.5	Off Bolsa Chica.
29	17:12	33 43	118 05	C	2.5	Off Bolsa Chica.
30	01:44	34 48	117 05	C	2.5	Southwest of Barstow.

Correction: February 8d 22h 44m should be 35°56' 120°29'.

August, 1939



Date	P.S.T.	Lat.	Long.	Q	M	Remarks
1	02:22:35	33°46'	117°55'	B	2.5	Near Santa Ana.
5	08:00:33	34 18	118 18	C	2	Northwest of Pasadena. Blast?
6	08:25:40±	34 23	116 31	C	3	Mojave Desert.
11	09:36:35±	37 01	117 15	C	3	North end of Death Valley.
14	20:04:54	34 25	117 42	B	2.5	San Andreas fault, vicinity of Valyermo.
15	07:20	30	113	D	4	Gulf of California?
	07:48:18	36 00	117 35	B	4	Argus Mountains.
16	13:36:51	33 53	118 07	C	2.5	Near Clearwater.
19	09:08:43	35 15	119 09	C	3	Near Buena Vista Lake.
	18:47:05	33 10	116 25	C	3.5	Agua Caliente fault near Verruga.
22	04:23:46	32 32	116 11	C	3	Lower California.
	04:26:17	32 32	116 11	C	3	Lower California.
23	03:52:39	36 30	118 05	C	3.5	Near Owens Lake. Felt: Owenyo, Cartago, Lone Pine, Darwin, Keeler. (CGS)
	06:22:53	33 35	116 45	B	3	San Jacinto fault, Coahuila Valley. Felt at Cathedral City. (CGS)
	06:24:58	33 35	116 45	B	2.5	Same as preceding. Felt, Cathedral City.
27	00:27:00±	32 32	116 11	C	3	Lower California.
	23:43:30	33 57	118 38	B	3.5	Santa Monica Bay. Felt: Inglewood, southwest Los Angeles, Santa Monica, San Fernando Valley. (P)
28	23:50:56	33 34	117 59	C	2.5	Off Newport Beach.

September, 1939

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
1	21:32:00	34°23'	116°31'	C	3	San Bernardino Mountains.
2	08:46:41	34 23	116 31	C	3	San Bernardino Mountains.
5	17:53:43	34 35	120 25	C	3	Vicinity of Lompoc.
6	18:50:30±	35 25	121 05	C	3	Off San Luis Obispo County. Felt, Cambria.
10	09:45:58	34 00	116 22	B	3.5	Little San Bernardino Mountains.
11	16:00:47	34 15	119 45	C	3	Santa Barbara Channel.
	16:44:38	36 00	117 44	C	3	Near Coso Hot Springs.
13	06:42:49	35 50	116 35	C	3	Southern end of Death Valley.
16	18:37:34	33 50	117 30	C	2	Near Cajalco Reservoir.
18	00:58:09	33 59	118 18	B	3	Felt: Inglewood, Hawthorne, Maywood, southwest Los Angeles, (P). (CGS).
	02:33:21	33 57	117 42	B	2.5	(Blast?) near Prado.
	20:38:28	34 35	118 57	B	3	North of Topatopa Mts., Ventura County.
19	18:45:29±	36.4	121.0	C	4	Felt at Salinas. (P)
20	03:15	38.6	117.8	D	4	Nevada.
21	01:17	37	117	D	4	Esmeralda County, Nevada (?)
	05:40:40±	30	114	D	5	Same as 13:27 following.
	05:52:00±	30	114	D	5	Same as 13:27 following.
	05:59:55±	30	114	D	5	Same as 13:27 following.
	12:10:05±	30	114	D	5	Same as 13:27 following.
	13:27.4	30	114		6	Epicenter and origin time by U.S.C.G.S.
	14:20:30±	30	114	D	5	Aftershock.
22	15:51:55±	30	114	D	5	Aftershock.
24	03:57:40±	36.4	121.0	D	3.5	Monterey County.
28	10:41:55	33 30	116 55	B	3.5	Agua Caliente fault, vicinity of Aguanga.
	10:56:12	33 59	117 12	C	2.5	Near Riverside.
	11:15:58	33 59	117 12	B	3	Near Riverside. Felt: Mill Creek Ranger Station. (CGS)

October, 1939

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
1	05:03:24	34°35'	118°40'	B	3	About 15 km. north of Castaic.
2	19:34:34	33 28	116 35	C	2.5	Terwilliger Valley.
3	02:38:37	34 11	116 55	B	2.5	San Bernardino Mountains.
4	04:05:38±	30	117	D	4	Off the coast of Lower California.
5	12:06:17	35 39	117 18	B	3	Garlock fault south of Searles Lake.
	20:39	35.8	121.5	D	3.5	Off Monterey County.
9	14:09.1	35.7	118.3	C	2.5	Sierra Nevada near Weldon.
10	03:38:20	33 08	117 58	C	3	Off coast of Oceanside.
	22:31:46	33 05	119 20	B	3.5	Near San Nicolas Island.
12	09:47:53	34 03	116 26	B	3.5	San Bernardino Mountains. (CGS)
14	09:55:15	33 47	118 08	B	3.5	Near Long Beach. Felt at Long Beach.
	23:17:38	37 30	118 32	C	3	North of Bishop.
17	11:21:41	34 33	120 47	C	3.5	Off Point Arguello.
	12:42:43	34 33	120 47	C	4	Off Point Arguello.
18	21:30:17	37 27	119 00	C	3.5	South of Mammoth. Felt Owens River Gorge. (CGS)
19	02:49:28	34 12	116 21	C	2.5	Mojave Desert.
23	02:04:36	34 55	117 35	C	3	Mojave Desert near Kramer.
24	00:52:12	34 05	116 28	C	3	San Bernardino Mountains.
	18:53:33	34 30	118 35	C	2.5	North of Saugus.
25	01:07:28	35 02	119 16	B	3.5	San Andreas fault vicinity of Maricopa.
	01:45:48	35 02	119 16	B	3	Same as preceding.
	03:15:38	33 24	118 45	C	3	Near Catalina Island.

November, 1939

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
3	14:10:48	34°18'	116°48'	B	3	San Bernardino Mountains.
	14:33:42	34 18	116 48	C	2.5	Same as preceding.
4	06:11:33±	36.2	120.9	D	3	Monterey County? Felt at Salinas. (P)
	13:41:00	33 46	118 07	B	4	Near Long Beach. Felt: Maywood, Long Beach, San Pedro, Seal Beach. (CGS)
						Los Angeles and beach areas. (P)
5	08:14	38	118	D	4	Nevada.
	19:42:06	34 30	118 35	C	2.5	North of Saugus.
6	08:15	31.7	115.1	D	4	Lower California.
7	10:52:09	33 51	117 21	B	4.5	Near Arlington. Felt: Los Angeles, Elsihore, Pasadena, Victorville, Ontario, Riverside, Maywood, Fallbrook, Mill Creek, Arrowhead, Fontana, San Bernardino, Mentone, Alta Loma, Hemet, Moreno. (CGS)
8	15:22:15	33 44	118 20	C	2.5	San Pedro Hills.
10	21:11:12	33 50	117 24	C	3	The Gavilan District.
12	10:49:00	32 32	116 11	C	4	Lower California.
13	10:31:16	33 59	118 18	B	2.5	Southwest Los Angeles.
	12:19:32	32 30	117 15	C	2.5	Off the coast at San Diego.
	14:12:20	33 28	116 35	B	3	Terwilliger Valley.
17	12:40:45	36 09	117 57	B	3	Near Haiwee.
	18:58:21	33 46	117 55	B	2.5	Near Santa Ana.
21	09:22:31	33 44	117 01	C	3	Near Homet.
	15:40	36.5	115.0	D	4	Clark County, Nevada.
26	20:12:23	33 10	116 25	C	3	Near Verruga.
28	02:19:28	33 08	116 05	C	3	San Jacinto fault west of Salton Sea.
29	19:53:20	33 47	118 08	C	2	Near Long Beach. Felt: Long Beach. (CGS)
	22:42:51	33 40	119 30	B	4	Outer Santa Barbara Channel.

No. 9

PASADENA, LOCAL SHOCKS

December, 1939

Date	P.S.T.	Lat.	Long.	Q	M	Remarks
1	04:38:08	33°10'	116°25'	C	3	Agua Caliente fault near Verruga.
	05:05:04	36 22	118 01	B	4	West shore of Owens Lake. Felt at Cartago. (CGS)
5	09:33:52	33 10	116 25	B	4	Agua Caliente fault near Verruga. Felt at Borego. (CGS)
6	03:46:36	33 10	116 25	B	3	Same as preceding.
9	10:46:39	33 40	117 20	B	3	Vicinity of Elsinore.
12	05:45:19±	33 10	116 25	C	2.5	Near Verruga.
13	19:45:18±	36.1	120.0	D	3	Fresno County?
14	04:17.3±	31.7	115.1	D	4.5	Lower California.
	05:17:21	33 10	116 25	C	3.5	Agua Caliente fault near Verruga.
	15:09:39	33 10	115 30	C	3.5	Imperial Valley. Uncertain.
19	12:12:09	35 56	116 52	C	4	Southern end of Death Valley.
24	11:33:55	33 50	117 24	B	3	The Gavilan District.
	15:46:29	33 50	117 51	B	3.5	Near Olive.
25	07:36:23	34 17	119 50	C	3.5	Santa Barbara Channel.
27	11:28:49	33 47	118 08	B	4.5	Felt generally, Los Angeles Basin. Minor damage in Long Beach.
	14:39				2	Small afterhsock.
	21:49:35	33 47	118 08	B	3	Near Long Beach. Felt: Long Beach, San Pedro, Gardena. (CGS)
28	03:25:39	33 47	118 08	C	2.5	Near Long Beach. Felt at Gardena. (CGS)
	04:15:38	35 48	120 20	B	5	Near Parkfield. Felt generally to distances of 150 km. from epicenter. (P)
29	01:27:20	35 50	117 00	C	3	Panamint Mountains.
	21:00:47	35 50	117 00	B	4	Panamint Mountains.
30	07:24:37	35 48	120 20	B	3.5	Near Parkfield.
	11:20:14	33 47	118 08	B	3.5	Near Long Beach. Felt: Long Beach and Compton.
31	07:12:43	33 23	115 36	B	4	East of the Salton Sea.

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