

Date	G.C.T.	Lat.N	Long W	Q	M	Remarks
<u>January</u>						
1	16:53:57	35 16	119 08	C	2.9	Southwest of Bakersfield
4	03:44:22	33 58	117 51	B	2.7	Northwest of Olinda
6	09:42:56	32 18	116 38	C	3.4	Southeast of Tijuana
8	06:34:28	34	116 21	B	4.4	Little San Bernardino Mountains. Felt at Lakeside, Palm Springs, Indio, Hemet, etc. (CGS)
8	23:53:43	33 45	115 55	C	3.3	East of Coachella
10	05:32:00	36 08	117 57	B	2.9	Near Haiwee. Felt there (CGS)
12	12:28:16	34 25	119 25	C	3.6	East of Santa Barbara. Felt at Ojai (CGS)
20	03:43:23	33 15	116 10	B	2.9	Near Borego Postoffice
21	05:22:06	34 29	116 12	C	3.2	Bullion Mountains, south of Ludlow
22	08:10:33	34 03	116 34	B	2.9	Near Morongo Valley
24	00:32:38	34 11	119 53	C	2.7	South of Santa Barbara
24	12:55:46	35 42	116 16	C	2.5	Amargosa River. Southwest of Sperry
26	04:59:19	34 15	116 51	B	2.8	East of Big Bear
27	16:08:50	33 37	117 05	C	3.2	South of Winchester. Felt at Hemet (CGS)
28	00:10:57	33 57	116 17	B	3.5	Little San Bernardino Mts.
28	10:46:37	33 59	116 56	C	2.9	North of Beaumont
28	12:06:04	33 12	116 16	C	3.5	Southeast of Borego
29	01:13:16	37 09	117 03	C	3.3	Northwest of Rhyolite, Nev.
31	20:09:02	34 11	119 32	C	2.6	Santa Barbara Channel
31	21:33.2	36.3	121.8	D	3.9	South of Monterey
<u>February</u>						
1	13:30:24	37.8	118.7	D	2.9	South of Mono Lake
1	13:52:00	37.8	118.7	D	3.0	South of Mono Lake
3	08:16:56	34 58	116 33	B	3.1	Manix Area
4	18:25:37	37 34	118 35	C	3.9	Owens River Gorge. Felt, Long Valley (CGS)
6	23:14:02	33 23	118 19	B	3.2	Near Avalon
7	04:47:10	32 52	118 15	C	3.0	East of San Clemente Is.
7	16:19:58	32 52	118 15	C	3.1	East of San Clemente Is.
8	08:59:05	36.0	114.7	D	3.4	Near Boulder City. Intensity V there (CGS)
8	17:40:28	33 06	116 38	C	4.0	Near Julian. Felt at Palomar (F.E. Lehner), Julian, Alpine, Borego, Warners, etc. (CGS)
9	08:21:31	37 00	117 57	C	2.5	East of Tinemaha
9	08:43:30	36 40	117 51	C	4.1	Northeast of Lone Pine. Eight shocks felt at Lone Pine (press), also at Independence, Owenyo, Keeler (CGS)
9	08:54:46	36 40	117 51	C	3.7	Felt at Lone Pine (press), also Owenyo (CGS)
9	19:44:25	36 40	117 51	C	3.7	Felt at Lone Pine (press)
9	22:26:39	34 04	120 45	C	3.6	West of San Miguel Island
10	09:14:47	35 43	117 05	C	2.8	East of Trona
10	09:46:23	34 02	116 33	C	3.0	Morongo Valley
10	13:50:55	33 35	119 11	C	4.0	Northwest of Santa Barbara Island. Felt in Pasadena, Los Angeles and toward the coast
12	04:02:32	33 11	116 27	B	2.8	West of Borego Valley
12	20:08:37	34.0	119.0	D	3.2	Peculiar. Data apparently in conflict. West of Point Dume
13	01:52:58	33 36	118 37	B	3.6	Northwest of Catalina Felt from Southwest Los Angeles to Redondo (press); Avalon (CGS)
13	07:05:53	39.6	116.5	D	4.7	West of Eureka, Nevada
13	15:13:37	32 52	118 15	C	4.7	East of San Clemente Is. Felt at San Pedro and Wilmington (press); Balboa (CGS)
14	07:31:04	32 55	118 18	B	3.4	Northeast of San Clemente Is. Felt at Avalon (CGS)
14	16:31:16	34 11	117 08	B	3.0	North of Highland
15	07:11:05	34 05	117 27	B	2.7	Near Fontana
15	08:24:09	34 04	117 27	B	2.6	Near Fontana

15	21:30:07	34 29	118 17	C	2.3	West of Acton
16	04:33:13	34 05	117 30	B	2.2	Near Fontana
17	12:36:58	34 01	117 14	B	4.5	South of Loma Linda.
	Felt at Riverside (press); also Banning, Beaumont, Redlands, Perris (CGS)					
19	09:21:53	34 04	117 08	B	2.6	Near Mentone
19	20:11:09	33 03	116 04	C	3.4	Southeast of Borego Valley
19	21:27:15	36 34	118 14	C	2.7	West of Lone Pine. Press reports shocks felt at Lone Pine in afternoon.
20	00:42:02	34 02	117 15	B	3.4	Near Loma Linda. Shallow?
20	13:41:11	36.0	114.7	D	3.6	Region of Boulder City.
	Felt there (VI) (CGS)					
22	16:58:13	35 40	118 00	B	3.0	Walker Pass
23	12:17:46	33 06	116 40	B	2.9	Near Santa Ysabel
28	16:05:04	36 58	118 02	B	3.2	Southeast of Tinemaha. Felt at Aberdeen (CGS)



<u>March</u>						
3	02:04:43	34 02	117 33	B	2.5	East of Ontario
3	06:30:10	34 02	117 17	B	2.7	Near Loma Linda
3	16:14:16	33 29	117 40	B	3.5	Near San Juan Capistrano.
	Felt at Inglewood and toward the coast (press)					
4	05:13:44	34 14	117 02	B	2.8	West of Big Bear
7	23:25.7	35.0	119.2	D	2.5±	Felt at Wheeler Ridge (CGS)
10	18:15:20	32 30	116 12	C	3.9	South of Jacumba
15	06:44:47	34 49	119 04	C	3.0	Near Mt. Pinos Delta
16	19:59:15	32 07	115 17	C	4.1	Compare the next, Colorado/
16	22:11:02	32 07	115 17	C	4.5	Colorado River Delta. Felt at El Centro
20	13:18:18	34 04	116 20	B	3.0	West of Twenty-nine Palms
24	11:54:09	33 09	116 03	B	3.0	North of Carrizo
24	20:36:41	34 35	119 20	C	3.3	North of Ventura
25	06:03:48	33 03	116 32	B	3.1	Southeast of Julian
25	09:18:50	34 08	120 57	C	3.6	West-southwest of Santa Barbara
25	15:29:44	33 09	116 03	B	3.0	North of Carrizo
26	11:14:31	35 57	117 49	C	3.3	East of Little Lake
28	01:16:22	33 17	115 55	B	4.2	Near Truckhaven

C. F. Richter
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6	00:50:25	34 16	116 48	B	3.0	Baldwin Lake
8	02:44:07	33 57	115 47	C	3.4	Pinto Basin
52 8	18:25:27	33 57	115 47	C	3.3	Pinto Basin
9	12:24:25	33 57	115 47	C	3.9	Pinto Basin
10	10:08:27	33 57	115 47	C	3.3	Pinto Basin
11	15:05:18	32 49	118 21	B	2.9	San Clemente Island
11	15:36:19	32 49	118 21	B	2.8	San Clemente Island
11	19:54:35	34 00	119 23	C	3.1	East of Anacapa
12	23:32:31	33 24	116 22	B	3.0	East of Palomar
13	07:47:03	35 00	119 15	C	2.8	East of Maricopa
13	08:10:15	34 13	117 45	B	2.5	Northeast of Dalton
17	21:56:33	34 15	117 29	B	3.0	Near Cajon. Felt: Riverside, San Bernardino (USCGS)
20	18:01:43	32 38	117 17	C	3.2	Off San Diego
20	21:12:28	32 38	117 18	C	3.2	Off San Diego
20	23:52:34	33 31	116 42	B	2.9	Near Anza
22	15:47:13	33 51	119 12	C	3.1	Southeast of Anacapa Island
24	21:52:05	35 38	118 18	B	3.1	Near Weldon. Felt: Jawbone aqueduct station (USCGS)
26	03:20:14	33 55	118 34	B	2.3	West of El Segundo
27	10:55:52	35 00	116 55	B	2.9	Near Calico
27	15:18:37	34 59	116 28	B	2.7	Near Manix



May

1	06:00:18	33 41	118 02	B	2.8	Near Huntington Beach. Felt at Huntington Beach (M.G. Murray)
4	13:50:02	33 20	118 48	C	2.9	West of Santa Catalina Island
5	03:43:44	33 13	115 56	C	2.8	South of Truckhaven
8	16:03:13	32.9	116.3	D	3.2	Near Vallecito
9	15:31:33	39 23	119 45	D	5.4	South of Reno. Sharp Shock at Reno (press). V-V1 at Carson City (USCGS)
16	04:32:20	34 02	116 59	B	2.9	Near Yucaipa
19	08:49:59	33 25	116 49	B	1.8	Southeast of Aguanga
22	04:02:29	33 25	118 07	C	2.8	Near Santa Catalina Island
22	17:11:22	35 03	116 54	C	2.8	Northeast of Barstow
22	23:36:36	34 00	116 47	C	2.9	North of Cabazon
23	14:51:12	32 28	117 33	C	3.4	West of Los Coronados Islands. Possibly not seismic
24	04:15:15	36.1	114.7	D	4.9	Strong at Las Vegas (press). Epicenter and origin time by USCGS
24	04:48:12	36.1	114.7	D	2.7	Felt at Las Vegas (press)
24	09:52:52	36.1	114.7	D	3.8	Near Las Vegas
24	20:18:57	32 59	117 44	B	3.4	West of Encinitas
25	13:06:30	36.1	114.7	D	3.9	Near Boulder City
27	06:27:04	33 21	116 24	C	3.5	North of Borego. Felt Ensign Ranch, Borego Star Route, Julian (USCGS)
27	13:07:37	34 16	117 11	B	2.2	Near Lake Arrowhead
27	14:03:54	34 16	117 11	C	2.4	Near Lake Arrowhead
31	13:37:31	33 54	116 18	B	3.6	North of Thousand Palms

June

2	04:19:18	34 00	117 37	A	2.2	Southeast of Ontario
2	09:35:33	36 52	115 53	C	3.6	Northeast of Frenchman's Flat
5	09:38:13	33 17	116 42	C	3.3	Near Warner Springs. Felt: San Diego, La Jolla, Suncrest, Ramona, Valley Center, Helix, El Cajon (USCGS)
11	08:01:57	32 45	117 20	C	3.0	Off coast near San Diego
12	04:45					No shock recorded. Reported felt (press) in Pasadena area. Probably air wave.
12	12:45:42	32 34	117 16	C	3.4	Off coast near San Diego. Felt in San Diego (press); Coronado, Pacific Beach, Mission Hills, East San Diego, Del Mar (USCGS)
12	12:54:38	32 34	117 16	C	2.6	Aftershock
14	16:54:50	34 55	118 50	C	2.7	Near Lebec
16	08:34:49	33 14	115 58	C	3.5	South of Truckhaven
17	17:19:31	37 37	118 40	C	3.4	Owens River Gorge
27	06:25					Slide at Terminal Island
29	06:22:14	32 50	118 16	B	2.5	Southeast of San Clemente Is.
29	06:22:25	32 50	118 16	B	3.2	Southeast of San Clemente Is.
29	07:06:17	34 00	117 12	B	2.6	Reche Canyon, south of Bryn Mawr

December 17, 1952
MERRY CHRISTMAS!

C. F. Richter
G.G. Shor

PASADENA LOCAL SHOCKS
July, August, September, 1952

no. 3

Date	G.C.T.	Lat.N	Long.W	Q	M	Remarks
July						
1	16:29:24	34.3	119.8	D	3.1	Near Santa Barbara
10	08:45:52	33 55	118 11	C	3.7	Near Clearwater. Felt in the Los Angeles metropolitan area from Alhambra to Santa Monica
14	09:51:33	34.2	115.4	D	3.5	Cadiz Dry Lake. (Mojave Desert).
14	20:15.2	32.6	115.4	D	3.8	Imperial Valley. Felt at Brawley
14	21:52.2	32.2	116.4	D	3.4	Baja California
17	03:17:02	34.4	118.9	C	2.5	Near Fillmore
19	09:24:42	33 30	118 33	C	2.3	North of Sta. Catalina Island
19	21:33:09	35 24	117 16	C	2.8	East of Johannesburg
20	08:21:11	33 49	118 09	C	1.9	Near Long Beach
21	09:43:03	35.0	119.1	D	3.1	Foreshock, Kern County
21	10:11:18	31.4	116.3	D	3.5±	Felt at Ensenada
21	11:52:14	35 00	119 01	A	7.6 - 7.7	Main earthquake, Kern County. Extensive damage. Landslides, cracks, etc along the White Wolf fault. Detailed accounts are in course of publication. Only the largest aftershocks are included here. For a catalogue including all identified shocks of magnitude 4.0 and over see the separate supplement.
21	12:05:31	35.0	119.0	D	6.4	The largest aftershock, Kern County. Felt over much of southern California.
21	14:20					Small shock near Haiwee
21	15:51:39	35 59	117 56	C	3.8	Near Coso Junction. Felt sharply (V) at Haiwee.
21	17:12:47	33 59	117 16	C	2.5	Near Riverside
21	17:14:02	33 59	117 16	C	2.4	Near Riverside
21	17:17:39	33 59	117 16	C	2.0	Near Riverside
21	17:27:46	33 59	117 16	C	2.9	Near Riverside
21	17:33:21	33 59	117 16	C	2.5	Near Riverside
21	17:34:25	33 59	117 16	C	2.2	Near Riverside
21	17:48:59	33 59	117 16	C	2.1	Near Riverside
22	00:01					Lower California
22	00:02					Lower California
23	00:38:32	35 22	118 35	A	6.1	Kern County aftershock, initiating a change in the place and type of aftershock activity.
23	12:51					Near Santa Barbara
24	18:59:32	34 06	116 55	C	2.9	Mill Creek, near Forest Home
24	19:06:13	34 06	116 55	C	2.5	Mill Creek, near Forest Home
24	19:08:43	34 06	116 55	C	2.6	Mill Creek, near Forest Home
24	19:25:21	34 06	116 55	C	2.9	Mill Creek, near Forest Home
25	19:09:45	35 19	118 30	A	5.7	Kern County aftershock
25	19:43:23	35 19	118 30	A	5.7	Kern County aftershock
27	18:15:13	34 11	119 42	C	3.1	Near Santa Barbara
27	20:20:35	34 13	119 40	C	3.2	Near Santa Barbara
27	20:30:05	34 12	119 40	B	3.5	Near Santa Barbara
28	07:03:47	35 23	118 51	A	6.1	Kern County aftershock, from an epicenter near Bakersfield. Slight additional damage there.
31	12:09:09	35 19.5	118 36.5	A	5.8	Kern County aftershock.
Aug. 7	19:15:12	34 20	120 41	C	3.6	Off Point Concepcion
9	00:55:53	34 26	116 44	B	3.1	Near Old Woman Springs
9	01:29:07	34 00	117 17	C	2.2	East of Riverside
10	14:37:50	37 19	117 37	C	3.2	Southwest of Lida, Nevada
11	21:42:29	34 10	119 40	C	3.1	Near Santa Barbara
13	18:21:33	32 56	118 12	C	3.1	Off San Clemente Island
19	21:15:35	34 09	117 38	B	2.9	North of Claremont
21	14:44.3	32.1	117.7	D	2.9	Southwest of San Diego
22	22:41:24	35 20	118 55	A	5.8	Near Bakersfield. Heavy damage at Bakersfield; two lives lost.
23	10:09:07	34 30	118 13	B	5.0	Near Acton. Felt widely in Southern California, including the Los Angeles area. Not on the San Andreas fault, in spite of press notices to that effect.
23	11:03:40	34 30	118 13	B	2.7	Near Acton
23	12:28:49	34 30	118 13	B	2.7	Near Acton
29	02:51:13	35 56	117 41	B	3.5	Northwest of China Lake
29	06:43:28	35 57	117 38	B	2.9	North of China Lake
30	14:58:11	34 21	119 37	B	3.3	Near Santa Barbara



September

1	12:03	34.3	119.6	D	3.0	Near Santa Barbara
2	05:21.8	31.9	115.9	D	3.7	Lower California
10	01:23:51	34 14	116 25	C	3.2	North of 29 Palms
10	13:34:31	34 11	116 24	C	2.9	West of 29 Palms
12	21:00:15	34 15	119 42	C	3.0	Near Santa Barbara
14	11:46.1	35.9	120.3	D	3.3	East of Parkfield
16	07:03:41	34 07	117 28	C	2.6	Near Fontana
24	03:07:14	34 12	116 28	C	2.9	Near Warrens Well
26	16:45:11	34 04	117 10	B	2.8	Near Loma Linda
28	04:00:10	34 04	117 10	B	3.0	Near Loma Linda



C. F. Richter
 G. G. Shor
 August 1, 1953

PASADENA LOCAL SHOCKS
(Excluding Kern County aftershocks)
October, November, December, 1952

no. 4 date	G.C.T.	Lat.N.	Long.W.	Q	M	Remarks
October						
5	01:34:15	33 23	116 19	C	3.2	Near Clark Dry Lake
5	17:24:44	35.9	117.7	D	2.8	Near China Lake
9	14:46:02	34.2	122.2	D	4.6	West of Channel Islands
9	21:05:34	35 55	117 40	C	3.4	Near China Lake
11	19:53:29	34 00	116 35	C	3.2	West of Desert Hot Springs
13	00:34:09	37 45	122 11		4.5	Epicenter and origin time from Berkeley. Felt generally, San Francisco Bay area
17	12:48:50	34 06	117 18	B	3.0	Near San Bernardino. Felt there.
17	15:23:22	34 06	117 18	B	2.5	Near San Bernardino.
9	14:04:42	34 30	118 13	B	3.9	Felt, Pasadena, South Pasadena, Arcadia, Flintridge, Antelope Valley region, but not at Lancaster. Acton and vicinity V (CGS), La Canada III, (CGS). Same epicenter as August 23, 1952, 10:09.
22	00:45				4.1	Near Berkeley.
22	01:35:52	31.5	113.6	D	4.1	Sonora, Mexico.
22	19:46:36	31.5	113.6	D	5.1	Sonora, Mexico. Felt in San Diego (CGS)
29	19:42:42.2	34 00	118 10	C	2	Los Angeles
31	02:46:47	34 02	115 59	C	2.9	South of Twenty-nine Palms
31	06:12:58	33 50	115 40	C	3.3	Pinto Basin
November						
4	19:07:31	32.8	116.9	D	3.2	Felt, El Cajon Valley (press)
12	03:01:51	38.7	118.2	D	4.2	North of Mina, Nevada
13	00:55:15	38.7	118.2	D	4.7	North of Mina, Nevada
14	09:05.7	39	118	D	4.1	Western Nevada
15	02:30.0	39	118	D	4.3	Western Nevada
16	13:48:24	33 57	117 10	B	3.8	IV at Riverside (press), Hemet IV (CGS)
16	18:06:16	34 52	116 21	C	3.0	North of Ludlow
17	03:20:23.5	36 15	118 23	C	3.9	West of Haiwee
18	22:01:30	34 06	118 30	C	2.5	North of Santa Monica
21	19:26.3	31.7	116.9	D	4.1	West of Ensenada
22	07:46:38	35 50	121 10	C	6.2	Near Bryson. Minor damage in a small area. Felt widely.
22	13:37:32	35 50	121 10	C	4.3	Aftershock
22	19:25:22	35 50	121 10	C	4.0	Bryson aftershock
23	22:50:54	34 15	117 04	C	3.3	West of Big Bear
24	03:18:59	33 53	115 45	B	3.3	Pinto Basin
24	06:23:56	34 04	117 52	B	2.2	Near Covina
25	19:17.7	36.2	120.0	D	3.2	Near Tulare Lake
25	20:14:48	35 50	121 10	C	3.7	Bryson aftershock
25	21:59:17	35 50	121 10	C	4.3	Bryson aftershock
26	13:32:12	35 50	121 10	C	3.5	Bryson aftershock
December						
2	19:33:15	35 50	121 10	C	3.9	Bryson aftershock
8	09:01:20	33 31	116 45	B	3.0	Near Cahuilla
12	00:27.2				4	Coast Range. Felt at Lonoak (CGS)
13	01:50:23.7	36 38	118 03	C	3.3	Near Lone Pine
15	01:07:14	34 52	118 43	B	2.4	South of Point Dume
25	16:44:10	34.4	121.4	D	3.6	West of Point Arguello
27	17:13.6	33.7	115.7	D	3.3	Near Desert Center
28	15:57:24	32 59	115 24	C	3.5	Near Alamorio. This, and not the next, is probably the shock reported (BSSA) felt at Calipatria at 7 p.m. Error of p.m. for a.m.?
29	03:05.6	32.4	115.5	D	3.9	Near Laguna Salada
30	07:25:58	34 56	116 47	C	3.6	East of Yermo. Felt at Yermo (CGS)



C. F. Richter
G. G. Shor
August 5, 1953

LARGER KERN COUNTY SHOCKS



International
Seismological
Centre

Preliminary determination of epicenters and origin times has been carried out for 21 of the 22 largest shocks of the Kern County beginning on July 21, 1952, those which have been tentatively assigned magnitudes of 5 or larger. Later revision of magnitudes may change the list somewhat. No such shocks have occurred in the affected area since the end of August.

An earthquake of magnitude 6 or slightly greater, on November 22, 1952 at 07:47 G.C.T., originated at about 35° 50' N. 121° 10' W., in southern Monterey County not far from Bryson; this should probably be considered an independent event.

Investigation of Kern County shocks in the magnitude range from 4 to 5 is in progress. These number about 200 to date, and one still occurs every few days. This work will lead to further revision of the results here given.

Any of the epicenters here given may be in error by two miles. The third and fourth are placed only roughly. Times are those of occurrence of the shock, to the tenth of a second, with possible errors up to about half a second. These times are Greenwich Civil Time, seven hours fast of Pacific Daylight-Saving Time.

Magnitudes are preliminary only.

Most of these shocks originate near the average depth for Southern California earthquakes, taken as 16 kilometers (10 miles); those on July 25 are shallower, that on July 31 deeper.

Date	G.C.T.	Lat.N	Long.W		M
July 21	11:52:14.3	35 00	119 02	Wheeler Ridge	7 1/2-3/4
	12:02:				5 1/2
	12:05	34.9	119.0	near Ft. Tejon	6 - 6 1/4
	12:19:	35.0	118.8	Tejon Ranch	5 1/4 ±
	15:13:58.7	35 11	118 39	Sycamore Canyon	5
	19:41:22.3	35 08	118 46	N. of Tejon Creek	5 1/2
July 23	00:38:32.0	35 22	118 35	W. of Walker Basin	6
	03:19:23.1	35 22	118 35	W. of Walker Basin	5.0
	07:53:18.7	35 00	118 50	Tejon Ranch	5 1/2-3/4
	13:17:05.2	35 13	118 49	Arvin	5 1/2
	18:13:50.9	35 00	118 50	Tejon Ranch	5.2
July 25	13:13:08.6	35 19	118 30	East of Caliente	5.0
	19:09:45.0	35 19	118 30	East of Caliente	5 3/4
	19:43:23.3	35 19	118 30	East of Caliente	5 3/4
	20:06:05.7	35 19	118 30	East of Caliente	5.0
July 29	07:03:46.8	35 23	118 51	North of Edison	6 1/4
	08:02:46.4	35 24	118 49	North of Edison	5.2
	15:49:50.3	35 11	118 36	Near Bear Mt.	5.0
July 31	12:09:08.8	35 19.5	118 36.5	N. of Caliente	5 3/4
Aug. 1	13:04:30.0	34 54	118 57	Near Fort Tejon	5.2
Aug. 22	22:41:23.8	35 20	118 55	East of Bakersfield	5 3/4
Aug. 30	04:56:00.0	35 19	118 30	East of Caliente	5 ±

C. F. Richter

Shocks of Kern County Series Magnitude 4.0 and Over

Date (1952)	Time	Lat.N.	Long.W.	Magnitude
July 21	11:52:14.3	35 00	119 02	7.7
	11:54			4.5±
	11:55			4.5±
	11:57			4.5
	11:58			4.6±
	11:59			4.5±
	12:02			5.6
	12:05:31	35.0	119.0	6.4
	12:06			4.8±
	12:07			4.7±
	12:10			4.5±
	12:12			4.6±
	12:18			4.4
	12:19:36.5	34 57	118 52	5.3
	12:22			4.9
	12:25			4.7
	12:28			4.2
	12:39			4.2
	12:40			4.9
	12:59			4.2
	13:08			4.5
	13:11			4.1
	13:13			4.5
	13:17			4.0
	13:25:11.6	35 00	119 00	4.5
	13:36			4.1
	13:59			4.6
	14:06			4.2
	14:15			4.4
	14:17			4.1
	14:42			4.2
	14:51			4.2
	15:13:58.7	35 11	118 39	5.1
15:36			4.2	
15:42			4.2	
15:53			4.5	
16:17			4.1	
16:38			4.5	
17:42:44.0±	35 14	118 32	5.1	
18:00			4.5	
18:23:38.5	35 18	118 32	4.5	
18:26:27.5	35 18	118 32	4.1	
19:12:08.6	35 13	118 28	4.3	
19:16:19.2	35 16	118 27	4.3	
19:41:22.3	35 08	118 46	5.5	
20:21:05.9	35 13	118 28	4.2	
21:53:09.3	34 52	119 01	4.3	
23:53:28.1	34 59	119 02.5	4.5	
July 22	01:41:02.0	35 08	118 31	4.5
	01:51:50.8	35 17	118 33	4.4
	03:21:04.8	35 12.5	118 37.5	4.4
	07:44:55.4	34 52	118 52	4.1
	08:16:23.7	35 05	118 35	4.4
	08:21:21.7	35 00	119 00	4.1
	08:47:34.3	35 05	118 45	4.7
	09:10:25.1	35 14	118 36	4.5
	10:19:38.6	35 02	119 00	4.1
	13:31:42.9	35 00	119 00	4.8
	14:05:11.1	35 06?	119 00?	4.3
	14:30:18.3	34 54	119 03	4.3
	15:03:14.4	35 14	118 32	4.2
	17:52:36.3	35 00	119 00	4.1
	19:08:59.3	35 13	118 28	4.3
	19:10.4			4.1
	21:02:10.8	35 04	118 46	4.2
	22:31:33.4	35 01.5	118 55.5	4.7



Date	Time	Lat.N.	Long.W.	Magnitude
July 23	00:38:32.0	35 22	118 35	6.1
	00:43:08	35.0	119.0	4.4
	00:47:38.0	35 22	118 35	4.6
	03:19:23.1	35 22	118 35	5.0
	03:49:27.5	35 17	118 33	4.7
	04:01:39.6	35 22	118 35	4.7
	05:46:02.7	35 23	118 34	4.7
	06:10:45.8	35 16	118 27	4.2
	06:26:28.4	35 22	118 35	4.0
	06:53:42.3	35 22	118 35	4.2
	07:37:00.2	35 17	118 33	4.8
	07:53:18.7	35 00	118 50	5.4
	09:38:42.3	35 15	118 29	4.2
	10:54:13.4	35 19	118 30	4.1
	13:17:05.2	35 13	118 49	5.7
	13:30:03.8	35 15	118 29	4.4
	15:25:24.1	35 08	118 31	4.0
	16:18:37.8	35 19.5	118 36.5	4.5
	16:48:53.0	35 19.5	118 36.5	4.5
	17:22:24.0	35 19	118 30	4.5+
	17:53:29.2	35 04	119 02	4.1
	18:03:27.6	35 19	118 30	4.0
	18:13:50.9	35 00	118 50	5.2
19:51:33.8	35 22	118 32	4.2	
21:16:58.5	35 01.5	118 55.5	4.1	
22:32:20.1	35 04	118 56	4.1	
23:51:35.8	35 04	118 37	4.0	
July 24	03:11:07.2	35 06	119 00	4.1
	05:02:50.0	35 19	118 30	4.5
	09:50:32.3	34 59	118 54	4.3
	11:47:55.8	35 24	118 35	4.4
	12:07:56.7	35 19	118 30	4.1
	14:05:26.3	35 19	118 30	4.3
	14:10:12.8	35 19	118 30	4.0
	17:35:06.0	35 14	118 32	4.2
July 25	00:03			4.0
	07:03:51.4	35 24	118 35	4.1
	13:13:08.6	35 19	118 30	5.0
	14:34:42.0	35 08	118 46	4.4
	19:09:45.0	35 19	116 30	5.7
	19:43:23.3	35 19	118 30	5.7
	20:06:05.7	35 19	118 30	4.8
July 26	01:02:20.6	35 19	118 30	4.2
	06:38:50.1	35 11	118 36	4.0
	09:22:06.5	35 17	118 33	4.3
	15:08:30.9	35 05	118 45	4.4
	18:02:43.6	35 05	118 45	4.0
	22:41:03.1	35 14	118 36	4.6
	22:58:56.5	35 19	118 30	4.3
July 27	00:09:15.8	35 19	118 30	4.2
	02:49:11.6	35 30	118 30	4.0
	07:16:11.3	35 02	119 03	4.1
	07:35:39.3	35 22	118 35	4.2
	11:34:38.4	35 04	119 02	4.1
July 28	05:45:54.0	35 08	118 31	4.2
	15:41:19.7	35 22	118 35	4.0
July 29	07:03:46.8	35 23	118 51	6.1
	08:01:46.4	35 24	118 49	5.1
	15:49:50.3	35 11	118 36	4.9
	17:36:43.0	35 14	118 32	4.4
	19:51:32.4	35 20	118 55	4.5



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Date	Time	Lat.N.	Long.W.	Magnitude
July 30	09:59:28.9	35 18	118 32	4.0
	11:02:55.0	34 58	118 57	4.0
	14:46:50.1	35 14	118 32	4.0
July 31	04:10:21.7	35 17	118 33	4.2
	12:09:08.8	35 19.5	118 36.5	5.8
	17:19:08.2	35 17	118 35	4.5+
	19:05:14.8	35 19	118 30	4.0
	19:53:14.0	35 20	118 55	4.5
Aug. 1	03:06:11.6	35 17	118 33	4.5+
	10:35:55.8	35 20	118 32	4.0
	13:04:30.0	34 54	118 57	5.1
	21:35:22.4	35 19	118 30	4.0
Aug. 3	01:51:56.2	35 23	118 27	4.1
Aug. 4	05:34:59.8	35 05	118 35	4+
	19:47:50±	?	?	4.0
Aug. 5	06:50:10.4	35 20	118 44	4.4
Aug. 6	03:46:23.4	35 19	118 30	4.3
Aug. 7	16:31:51.2	35 02	119 03	4.9
	19:19:07.0	35 20	118 55	4.2
Aug. 8	05:17:17.6	35 20	118 34	4.0
Aug. 9	10:07:32.1	35 20	118 28	4.2
Aug. 10	06:01:18.0	35 19.5	118 36.5	4.0
	12:23:16.8	35 19	118 30	4.6
	19:44:23.6	35 00	119 00	4.1
Aug. 11	13:21:48.8	35 19	118 30	4.4
Aug. 13	04:29:39.0	35 19	118 30	4.6+
	17:39:25.1	35 09	118 41	4.7
	21:25:48.3	35 18	118 40	4.1
Aug. 14	07:28:21.8	35 08	118 31	4.1
	11:41:46.1	35 04	118 53	4.2
Aug. 17	06:14:03.7	35 03	118 57	4.0
	09:09:06.9	35 01	118 59	4.1
	21:04:41.6	35 04	118 53	4.3
Aug. 18	04:40:10.4	35 02	119 03	4.7
Aug. 19	19:12:26.3	35 03	119 14	4.5
Aug. 20	08:47:47.1	34 53	119 02	4.2
Aug. 22	22:41:23.8	35 20	118 55	5.8
Aug. 23	06:03:03.2	35 00	118 44	4.3
Aug. 25	06:20:26.1	35 06	118 58	4.7
Aug. 26	20:56:40.7	35 05	118 25	4.4
Aug. 30	04:56:00.0	35 19	118 30	4.7
	04:59:55.0	35 19	118 30	4.0
Sept. 1	10:38:59.8	35 19	118 57	4.1
Sept. 2	12:41:32.5	35 08	118 42	4.6
	16:38:08.7	35 18	118 32	4.0
	20:45:56.4	34 58	119 00	4.7



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Date	Time	-4- Lat.N.	Long.W.	Magnitude
Sept. 4	18:06:49.5	35 19	118 30	4.4
Sept. 12	10:35:25.1	35 00	119 03	4.5
Sept. 14	20:43:23.5	35 13	118 40	4.1
Sept. 15	04:40:13.3	35 19	118 30	4.9-
Sept. 16	14:24:53.5	35 19.5	118 36.5	4.0+
	15:21:07.6	35 22	118 35	4.3+
Sept. 25	16:21:35.5	35 03	118 54	4.1-
Sept. 26	20:21:20.0	35 06	118 37	4.0+



Shocks of Kern County Series Magnitude 4.0 and Over

Date	Time	Lat.N.	Long.W.	Magnitude
Oct. 2	23:10:20.6	35 24	118 38	4.2
Oct. 13	22:20:35.1	35 23	118 51	4.0+
Oct. 16	12:22:07.3	34 57	118 57	4.3
Oct. 20	18:14:43.2	35 19	118 30	4.3
Nov. 7	08:55:35.0	35 00	119 05	4.6
Nov. 11	17:22:07.8	35 09	119 03	4.2
	18:12:25.2	34 57	119 01	4.1
Nov. 27	15:36:41.1	34 58	118 57	4.0
Dec. 1	05:26:10.3	35 00	118 50	4.4
Dec. 25	05:56:33.4	35 20	118 28	4.1

