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SEISMOLOGICAL LABORATORY

Seismologica

Centre

California Institute of Technology Pasadena, California

BULLETIN ON LOCAL SHOCKS

January - March, 1963

This bulletin catalogues earthquakes in the general Southern California area for which seismograph data are sufficient for good epicenter determinations. In general this includes shocks of magnitude 3.0 within the boundaries indicated on the index map circulated with earlier issues. (A limited number of copies of this index map are still in stock, available on request until exhausted). Shocks in adjacent parts of Mexico, Nevada, and central California are included when of magnitude 4.5 or over.

Shocks of magnitude less than 3.0 in the Southern California area, or less than 4.5 in the adjacent areas, are included when reported as felt, when unusually well located, or when there is some other reason or special interest.

Artificial earthquakes due to explosions, etc., are not listed.

Dates and times are in terms of Greenwich Civil Time (G.C.T.). For Pacific Standard Time subtract 8 hours, for Pacific Daylight-Saving Time subtract 7 hours; this will sometimes change the date. Time reported is that of origination of the shock, generally to the nearest second; when determination is less precise, time is given to the nearest tenth of a minute.

Latitudes North and longitudes West are in degrees and minutes, or degrees and tenths. Quality of location is indicated in the column headed Q, as follows: A, specially investigated; B, probably within 5 kilometers (3 miles); C, probably within 15 kilometers (or 10 miles); D, very rough.

Magnitudes are given in the column headed M. Index letters and figures, such as K7, refer to the index map.

USCGS, or CGS: United States Coast and Geodetic Survey. Reports of felt earthquakes as collected by the San Francisco office, Seismological Field Survey; epicenters and origin times as determined at the office of the Director, Washington, D. C.

Roman numerals I, II, III....are intensities on the Modified Mercali scale of 1931.

Charles F. Richter Violet M. Taylor August 24, 1964



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BULLETIN ON LOCAL SHOCKS

January - March, 1963

Date	GC. T.	Lat N.	Long. W.	Q	M.	Index	Remarks
1963 January							
1	18:37:50	36 04	117 58	В	2.9	K 9	Near Haiwee
1	18:50:07	33 58	118 23	В	2.0	J 4	Near Inglewood
9	06:04:04	34 55	119 06	В	4.0		Near Wheeler Ridge 11) at Wheeler Ridge
12	03:34:44	34 16	117 04	С	2.7	L 5	Near Lake Arrowhead
13	02:39:39	33 01	116 13	В	4.2	N 3	Near Vallecito
13	07:56:34	34 16	117 05	В	2.7	L 5	Near Lake Arrowhead
13	20:45:18	33 01	116 13	В	3.9	N 3	Near Vallecito
13	20:47:25	33 01	116 13	В	3.0	N 3	Near Vallecito
13	21:09:19	33 01	116 13	В	3.4	N 3	Near Vallecito
14	01:33:31	33 01	116 13	В	3.4	N 3	Near Vallecito
15	16:35:43	34 07	117 38	В	2.4	K 5	Near Ontario
16	12:51:08	34 16	117 05	В	3.4	L 5	Near Lake Arrowhead
16	14:39:22	34 16	117 07	В	2.7	L 5	Near Lake Arrowhead
16	21:01:25	34 17	117 04	В	2.9	L 5	Near Lake Arrowhead
18	21:12:37	37.3	118.1	C	3.3	J11	East of Bishop
23			118.1	D	3.6	J13 South	East of Mono Lake. neast of Hawthorne



West of Paso Robles

-2- Pasadena Bulletin on Local Shocks January - March, 1963

Date	G. C. T.	Lat N.	Long. W.	Q	M.	Index	Remarks
1963 January							
25	05:39:59	33 01	116 13	В	3.5	N 3	Near Vallecito
25	06:33:35	33 01	116 13	В	3.4	N 3	Near Vallecito
27	03:00:39	31.6	115.7		Epic	center a	Near Laguna Salada. and Origin Time by USCGS. felt by a few persons
31		w area. Fe	elt in gen				Near Inglewood. Felt everal miles of
February							
1	15:28:00	35 19	118 34	B	2.9	H 7	North of Caliente
2	11:51:42 Epicenter a						Lake County, Calif. ar Lake.
2	12:09:37 Epicenter a						Lake County, Calif. ar Lake.
2	13:58:19 Epicenter a	36.8 and origin	121.5 time by l	JSCGS.	4.2 IV at	C10 Hollist	San Benito County, Cali ter (CGS)
3	15:28:13	35 27	118 25	В	2.8	J 7	Northeast of Caliente
11	01:07:54	34 15	116 52	В	2.6	M 5	Near Big Bear
12	21:45:49	34 55	118 59	В	3.5	H 6	Near Wheeler Ridge
18	16:58:53 Felt: Sant	33 55 ta Monica,	118 22 Manhattai				South of Inglewood. ly Hills
19	19:01:21	32 25	115 05	C	3.7	Q 1	East of Volcano Lake, Baja California
21	11:44:42	31.7	115.9	D	3.8	PO	Baja California
22	01:52:51	32 55	117 30	C	2.9	K 2	Northwest of San Diego

D 3.6 E 8

120 50

35 40

15:56:6

22



-3- Pasadena Bulletin on Local Shocks January - March, 1963

Date	G. C. T.	Lat N.	Long. W.	Q	M	Index	Remarks
1963 Februa	ry						
27	09:13:40	34 18	116 51	В	2.6	M 5	Near Big Bear
27	12:57:52	36 08	118 04	В	2.8	J 9	Near Haiwee
27	16:45:08	33 15	115 35	C	2.7±	P 3	Near Niland. Palomar seismograms peculiar
27 March	20:07:07	35 06	118 56	В	2.6	H 7	North of Wheeler Ridge
Gorm	S reports: an, Lake Eli ler Ridge.	VI, Fort zabeth, M Felt in L	os Angeles,	ier P loma and	cycling as far	g plant	Near Fort Tejon. nch, Taft; V, Bakersfield, Tehachapi, til, Colton, Fullerton, le, Santa Ynez, Simmler.
2	20:38:31	34 18	116 49	В	2.9	M 5	Near Big Bear
4	14:48:32	34 57	118 56	В	3.1	H 6	North of Fort Tejon
4	20:10:42	34 57	118 58	В	4.0	H 6	North of Fort Tejon
8	14:29:22	32 58	116 26	В	3.0	N 2	Northeast of Descanso
10	09:32:04	34 19	116 51	В	3.0	M 5	Near Big Bear
10	11:40:29	38.4	127.2		4?		Epicenter and origin time by USCGS
11	06:07:01 Felt in To	33 45 orrance, H	118 21 awthorne, R	Bedon	3.0 do Beac	J 4 h, and	West of Wilmington. Manhattan Beach
11	06:45:39	35 19	118 35	В	2.6	H 7	North of Callente
12	09:19:30	36 42	119 56	В	3.1	F10	Near Fresno
12	18:06:31	33 38	117 54	В	2.3	K 4	Near Newport Beach
14	12:23:47 Felt by press)	35 22 many per	118 47 sons, espec	Biall	3.2 y north	H 7 and ea	East of Bakersfield. est of city. (telephone
15	20:27:55	34 07	117 38	В	2.5	K 5	Near Ontario



-4- Pasadena Bulletin on Local Shocks January - March, 1963

Date	G. C. T.	Lat N.	Long. W.	Q.	M	Index	Remarks
1963 March							
16	09:35:54	34 20	116 53	В	3.5	M 5	Near Big Bear
16	12:15:13	34 20	116 53	В	2.6	M 5	Near Big Bear
17	10:10:53	34 20	119 12	C	2.8	G 5	Northeast of Bentura
20	15:58:19	34 05	117 57	В	2.3	K 5	Near West Covina.
20	23:15:15	31.5	116.0	D	4.0		Reported by Fred Robinson Compare Mar. 22, 10:36
22	10:36.1	31.5	116.0	D	3.9	NO	Southeast of Ensenada
22	22:03:34	33 23	118 22	В	2.4	J 3	Near Avalon
23	00:13:38	34 19	116 52	В	2.6	M 5	Near Big Bear
23	00:19:08	34 20	116 56	В	2.5	M 5	Near Big Bear
23	14:09:29	33 57	118 12	В	2.5	14	Near Compton
24	17:31:39	34 55	116 33	В	2.8	M 6	Near Manix
25		and origin	time by U	SCGS.	VI		Near Las Vegas, Nevada. er City with minor
26	04:29.7	36.0	114.9	D	3.2	R 9	Near Las Vegas, Nevada
27	20:30:28	35 48	118 02	В	3.0	18	Near Walker Pass
30	18:28:16	33 59	116 46	C	3.2	M 4	North of Cabazon

August 24, 1964

C. F. Richter

J. K. Gardner

J. M. Nordquist