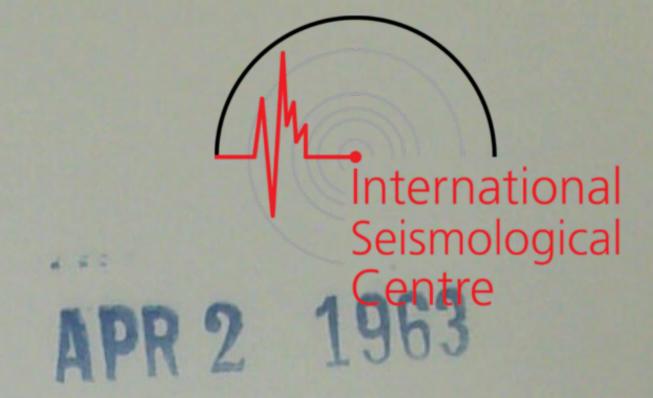
acc. #66-A-1864
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SEISMOLOGICAL LABORATORY

California Institute of Technology Pasadena, California

BULLETIN ON LOCAL SHOCKS

January - March, 1962

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 for special interest.

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

Dates and times are in terms of Greewich 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 1, 11, 111....are intensities on the Modified Mercalli scale of 1931.

Charles F. Richter Violet M. Taylor March 12, 1963



SEISMOLOGICAL LABORATORY

California Institute of Technology Pasadena, California

BULLETIN ON LOCAL SHOCKS

January - March, 1962

NOTE: This quarterly report is being issued with the usual locations based on instrumental recordings, but with notes on perceptibility and intensity derived only from press clippings and individual reports reaching Pasadena. A supplement will be issued later, giving revised and additional data of this kind, and any necessary corrections and additions to the epicenter list.

Date	G.C.T.	Lat.	N.	Long.	W.	Q.	М.	Index	Remarks
1962 January									
7	15:21:39 23:01:31	35	22	118	36	BC	2.9	H7 H3	North of Caliente. Southwest of Santa Catalina Island.
9 15	16:30:01 04:32:02	37.0	Blas 45	本16.2 117	13	В	3.7	L4	Near Shoshone Mountains Near Perris. Felt in Banning area (Banning Pass Observer).
15 15 16	16:02:45 23:17:21 04:03:29	37	52 33 10	118	20	В	The same of the sa	111	North of Santa Ana. Southeast of Yosemite. Southeast of Oxnard. Felt at Oxnard and El Rio (press).
17	18:16:10	31	59	116	22	C	3.8	NO	Baja California (south of Barrett).
17 19 19	20:38:42 02:00:35 15:46:09	35	50 47 47		34	В	2.5	K8	Near Anaheim. Near China Lake. South of Anaheim. Multiple shock?
24	06:11:13	32	20	115	43	D	3.5	PI	Northwest of Laguna Salada.
25 27 27	10:58:44 22:59.5 23:04.1	34.8		117 114.6		В	2.8		Northwest of Barstow. Gulf of California. Gulf of California.
27	23:07:42	30.8		114.6			5.3		Gulf of California. Epicenter and origin
27	23:26:10	30.8		114.6			4.6		time by USCGS. Gulf of California. Epicenter and origin time by USCGS.

Date	G.C.T.	Lat.	N.	Long.	W.	Q.	М.	Index	Remarks
1962 January 28 28 28 28 29 31	01:29.5 02:12.6 02:19.5 11:47.6 11:49.2 19:05:34 03:17.2	30.88888888836.8		114.66114.6114.6114.6114.6	16	BD	4.4.4.4.4.9.3	J5	Gulf of California. Northwest of Acton. San Benito county. Felt, Hollister area.
31	04:07.5		53	117.5			4.3		Central Nevada. Off the coast west of Guadalupe.
Februar	<u>y</u>								
1	06:37:57	34	53	120	41	C	4.5	D6	West of Guadalupe. Fe at Pismo, Santa Maria, San Luis Obispo (press
1 1 2	07:58:12 22:04:31 14:26:50	34		120	10	C		D6 L5 M4	Vandenberg AFB (telephone West of Guadalupe. North of Redlands. West of Desert Hot Springs. Felt at Palm
23456667	22:41:05 00:03:47 04:45:00 16:25:36 08:45:21 19:32:15 13:00:7	3344355443	27 27 03 17 06 01	118 118 118 118 118 118 118 122.1	551530445	BBBBBBD	3.4193.6199	M3 J5 H7 H7 H5 H5 A5	Springs (press). Near Palomar. East of Solemint. Near Malibu. South of Caliente. Southwest of Tehachapi West of Topanga. West of Santa Cruz Island.
8 9 10 10	05:00.4	35	30	119 116.0 118 118	23	В	3.1	J7	West of Wheeler Ridge. Baja California. South of Isabella. Near Woodland Hills and Calabasas.
15	03:26:53	34	02	116	40	В	3.0	M5	Northwest of Desert Hot Springs.
15	07:12:43	36.9		112.4			4.5	2	Arizona-Utah border. Felt at Kanab, Utah. Epicenter and origin time by USCGS.

International Seismological Centre

- 3 - Pasadena Bulletin on Local Shocks
January - March, 1962

Date	G.C.T.	Lat.	N.	Long. W	•	Q.	М.	Index	Remarks
1962 Februar	<u>Y</u>								
15	09:06:45	37.0		112.9			4.4		Arizona-Utah border. Epicenter and time by USCGS.
16 17 19	22:39:34 01:07:25 03:25:38	33 34 34	30	118 1	5	В	3.4 2.9	N4 J6 G5	Near Desert Hot Spring Northwest of Acton. Southeast of Oxnard. Felt in Oxnard (press)
20	06:23.7 22:03:20			115.9				P0 J11	Baja California. North of Bishop. Felt at Bishop (press).
25	06:37:03	33	30	116 2	25	В	3.3	N3	North of Borrego
27	14:57.0	32.9		116.3		D	3.3	N2	Springs. East of Vallecito.
March									
4 4 4 5	19:09:48 20:39:47 21:32:47 23:24:51 07:44:01	33	07 07 07 07	115 4	6	CC	3.53.3.5	P3 P3 P3 P6	Northwest of Brawley. Northwest of Brawley. Northwest of Brawley. Northwest of Brawley. Off coast near Lompoc. Epicenter and time by
5	08:52:01	32	59	116	13	В	3.2	N2	Northeast of Vallecito May be shock reported
6800001214	03:40:22 06:58:50 08:07:21 13:40:48 15:24:21 21:32:09 15:23			121.6 121.6 121.6 121.6				B H B B B B B B	felt in Imperial Valle Off coast near Lompoc Near Simi. Off coast near Lompoc Off coast near Lompoc Off coast near Lompoc Off coast near Lompoc Gulf of California? Reported felt in Imperial Valley. (Sa Diego press).
15	11:36:09	36.6		115.9		D	3.0	P10	South of Frenchman Flat, Nevada.
16 16 17	17:15 21:21:50 00:04:45	35	02 24		05		4.6		Gulf of California? West of Wheeler Ridge East of Newhall.

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- 4 - Pasadena Bulletin on Local Shock January - March, 1962

Date	G.C.T.	Lat.	N.	Long.	W .	Q.	М.	Index	Remarks
1962 March									
17	21:27:03 21:38:44	34 37.8	55	116	45	В	3.0	M6	East of Barstow. Contra Costa County, California. Epicenter and time by USCGS.
18	12:31:48	35	26	118	42	В	3.1	H7	East of Bakersfield (Kern River).
19 23 24	02:38:12 22:10:18 03:38:18	34	04 17 46	118	12	CCB	2.9	H5 E5 J8	West of Santa Monica. Santa Barbara Channel. Walker Pass. Smaller shock follows.
26 27 31 31	21:09:47 01:25:04 00:23:20 20:02:23		59 53 88 5	119 117 118 117	25 39 17 44	B	2.5	K4	Near Anacapa Island. West of Palm Springs. West of Acton. South of Pomona.

March 12, 1963

C. F. Richter

J. K. Gardner

J. M. Nordquist

International Seismological Centre

Allic 08 1963

SEISMOLOGICAL LABORATORY

CALIFORNIA INSTITUTE OF TECHNOLOGY PASADENA, CALIFORNIA

BULLETIN ON LOCAL SHOCKS

Addenda and corrigenda

Date	G.C.T.	Lat.	N.	Long.	W.	Q.	М.	Index	Remarks
1962 Januar	<u>Y</u>								
9	16:30:01	37.0		116.2			3.7		Delete this entry; clerical error.
15	03:13:25	33	20	118	53	C	2.7±	H7	East of Bakersfield. Felt, Kern Canyon (CGS).
15	23:17:21								Add: North of Laws. IV at Laws (CGS).
Februa	ry								
	06:37:57								USCGS reports V at Arroyo Grande, Avila Beach, Casmalia, Grover City, Guadalupe, Halcyo Oceano, Point Arguello Shell Beach; IV at Bryson, Lompoc, Los Alamos, Nipomo, San Lu Obispo, Santa Margarit
56 22	16:25:36 08:45:23 22:03:20								Felt at Tehachapi (CGS). IV at Tehachapi (CGS). IV at Laws (CGS).
March									
5	07:44:01								USCGS: V at Morro Bay Pismo Beach; IV at Arroyo Grande, Avila Beach, Guadalupe, Harmony, Shell Beach.



SEISMOLOGICAL LABORATORY

California Institute of Technology Pasadena, California

BULLETIN ON LOCAL SHOCKS

April - June, 1962

Date	G.C.T.	Lat.	N.	Long.	W.	Q.	М.	Index	Remarks
1962 April									
1	09:09:24	35	14	118	32	В	3.5	H7	Near Woodford. IV at Keene (CGS).
2	03:05:41	35	15	118	30	В	3.7	J7	Northwest of Tehachapi V at Keene and Tehacha (CGS).
3	05:50:52	33	49	120	15	В	3.4	E4	South of Santa Rosa Island.
4445	06:29:59 17:00.5 21:47.94	0 1	56	119.3	00		2.8659	G6 G13 G13	East of Grapevine. Felt at Bridgeport (CG) West of Walker Lake. Epicenter and time by USCGS. Felt chiefly Mono County; IV at Bridgeport (CGS).
58	22:01.8 01:07.3	38.4		119.3		D	3.6	G13 G13	Felt at Bridgeport (C West of Walker Lake. Felt at Bridgeport (C
8 10 13 13	20:29.4 23:45:25 15:01:45 15:38:47	34 35	48	119.2	16	В	3.37.9	. ^	Epicenter and time by USCGS. V at Bridgepo IV in the adjacent Sierra Nevada and east to Hawthorne and
13	16:31.4 16:40:59	38.4		119.2		D	3.2	010	1 6 111 31 1 -110
1313	16:47.6 19:30:42 20:21:07	38.4	50	119.2	02	-	3.4 2.7	18	Felt at Bridgeport (Composition of Walker Pass. West of Walker Lake. Epicenter and time by USCGS. Felt at Bridgeport (CGS).



- 2 - Pasadena Bulletin on Local Shocks April - June, 1962

Date	G.C.T.	Lat.	N.	Long.	W.	Q.	М.	Index	Remarks
1962 April									
14	07:53:17	40.3		125.1			5	A15	Off coast of Humboldt County. Epicenter an time by USCGS, magnit
14	15:42:14	33	50	118	10	В	3.0	J4	Near Long Beach. Fel Press inquiry about
15	07:08:25 08:41:01	34,36.5	16	119	18	В	3.1	G5	earthquake at 7:30 AM Near Ventura. San Benito County. Ep center by USCGS. Valdria; felt at Panoch and Tranquillity (CGS)
17	23:08:13 06:22:34	34	27	117	15	СВ	2.9	L5 G5	Near Hesperia. Near Ventura. Felt at Santa Paula, Ventura,
191922	12:19:56 21:34:56 20:12:08 17:03:42	34	01 05 28	117	14	B	2.642.8	K5 L5 J5 J4	Oxnard area. South of Ontario. East of Ontario. Near Acton. Near Long Beach. Felin Long Beach, Garden and Torrance (press). Long Beach Airport (Conglet of La Jolla. North of Julian. West of La Jolla. North of Julian. East of Walker Lake. Epicenter and time by USCGS. V at Luning; IV at Babbitt, Hawthom Mina (CGS). Near Jacumba. Central Nevada.
22425	18:05:34 14:16:27 15:24:43 08:48:58	32	58	116	50	C	3.202	K2 M3	
25 27	12:48:17 15:54.2 09:12:32	32.5	41	117.2			3.491	L15	



- 3 - Pasadena Bulletin on Local Shocks April - June, 1962

Date	G.C.T.	Lat.	N.	Long.	W.	Q.	М.	Index	Remarks
1962 May									
3	02:28:34 13:48:24	33 29.1	56	117	16	В	2.7 5.0	L4 Q0	Southeast of Riverside. Baja California. Epi- center and time by USCG
345	17:16:33 20:52:32 00:55.2	35	16	118	33	В	2.8	J5 F7 C5	West of Solemint. Near McKittrick. West of San Miguel Island. Peculiar.
55	08:10:24			117				L4 K5	Near Riverside. Near Ontario. IV at Bloomington, Etiwanda, Fontana (CGS).
5	14:17:24	33	42	116	43	В	3.6	M4	Near Idyllwild. V at Palm Springs, Palm Desert, Anza, Hemet, Idyllwild (CGS).
5	18:24:46 16:12:01		48 45	116			3.0	N4 J4	Near Palm Springs. Long Beach Harbor. Reported felt sharply at Compton (press).
16	19:30:34 08:40:34		59				2.9	K8 N5	East of Little Lake. East of Desert Hot Springs.
21 21 22	04:27.9 12:54:10 05:18:28	33	28 56	119.2	32	C	2.8	G5 M3 N4	Near Oxnard. Southeast of Anza. East of Desert Hot Springs.
26 27	08:10:05 01:45:35	35,31.7	24	118				H7 P0	Southwest of Isabella. Gulf of California. Epicenter and time by USCGS.
31 31 31	02:20:00 02:22:20 02:31:37	33333	02 02 02	116	08	C	3.2		Near Vallecito. Near Vallecito. Near Vallecito.
June									
235	19:58:09 20:57:11 07:04:19	33334	31 23 12	116	31 24 53		3.0	1 4-	Southeast of Anza. Near Catalina Island. South of Big Bear.



- 4 - Pasadena Bulletin on Local Shocks
April - June, 1962

Date	G.C.T.	Lat.	N.	Long. V	٧.	Q.	М.	Index	Remarks
1962 June									
6	√17:50:07	39	05	123	04		5.3		Near Lakeport. Epi- center and time by Berkeley. VII about 2 miles west of Lake- port. Felt chiefly in Lake Mendocino and Sonoma counties; noticed as far as Fort Bragg, San Francisco, and Willows (CGS).
7	15:15.9	38.3		119.7			3.6		West of Bridgeport. 11 At Bridgeport (CGS).
8	√06:28:03	38.3		119.7			4.5	F13 V	West of Bridgeport. V at Bridgeport (CGS). Felt in Walker River area. Epicenter by
8	08:35:48	38.3		119.7			4.2	F13	USCGS. West of Bridgeport. IV at Bridgeport (CGS) Aftershock of above. Felt in Walker River area. Located by com- parison with preceding shock.
8 9 15 17 21	18:57:54 12:52:01 00:44:58 00:01:05 12:05:51	34.5	22 09	118.3	53	CCC	3.802.8	G5 H7 J5 J5 L5	West of Carpinteria. North of Wheeler Ridge Near Acton. Near Acton. Northwest of San Berna
24 24 26 28	18:17:53	36	11	117	45 45 3	CCCR	3.1	K9 K9 N3 N3	dino. IV at Etiwanda (CGS). East of Haiwee. East of Haiwee. Northeast of Vallecito Northeast of Vallecito

July 23, 1963

C. F. Richter J. K. Gardner J. M. Nordquist acc # 69-19-1762

SEISMOLOGICAL LABORATORY



California Institute of Technology Pasadena, California

BULLETIN ON LOCAL SHOCKS

July - September, 1962

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Date	C C T	1 - 4 1					
	G. C. T.	Lat N.	Long W.	Q.	M.	Index	Remarks
1962 July							
26	17:11:51	35 19	118 29	B*	3.2	J 7	Northeast of Callente
27	04:18:57	35 12	118 37	B*	2.8	H 7	Near Bear Mountain. IV at Keene (CGS)
27	09:51:29	33 52	118 11	C*	1.7	J 4	Near Artesia
27	15:27:07	34 20	119 25	B*	3.0	G 5	Northwest of Ventura
27	15:27:58	34 20	119 25	В	2.6	G 5	Northwest of Ventura
31	14:55:47	33 06	115 52	D	3.3	P 3	Near Kane Springs
August							
1	02:56:42	37 42	118 18	D	3.2	J12	North of Bishop
2	10:39:57	34 02	117 06	B*	2.7	L 5	East of Redlands
3	17:30:08	33 55	117 07	B*	2.8	L 4	West of Beaumont
4	06:37:27	32 38	117 18	B*	3.2	L2	Southwest of San Diego. IV on Point Loma (CGS).
4	13:39:53	33 44	117 56	B*	2.7	K 4	Near Santa Ana
6	02:17:57	34 17	119 28	B*	2.9	G 5	Off Carpinteria.
6	14:00:04	34 51	116 27	C*	2.7	N 6	East of Barstow
6	17:59:41	34 20	119 29	B*	2.7	G 5	Off Carpinteria
7	22:32:35	31.5	116.1		4.7	NO	East of Ensenada, Epicenter and origin time by USCGS.
8	05:40:03	34 09	118 03	C	2.6	J 5	Near Pasadena
8	06:19:50	34 09	118 03	B*	2.8	J 5	Near Pasadena
9	23:57:53	34 13	116 26	C*	2.8	N 5	Near Joshua Tree
10	02:29.9	35.0	115.6	D	3.1	M 7	Near Kelso
10	19:18:42	35 03	119 07	B*	3.6	G 7	Near Wheeler Ridge



-3- Pasadena Bulletin on Local Shocks July - September, 1962

Date	G. C. T.	Lat N.	Long W.	Q.	M.	Index	Remarks
1962 August							
12	21:37:57	37.9	118.3	C	3.2	J12	East of Mono Lake: Northeast of Benton
15	01:55:37	33 18	116 10	C	3.8	N 3	East of Borrego
15	01:57:07	33 18	116 10	C	3.0	N 3	East of Borrego
17	11:03:54	35 57	117 59	B*	3.2	K 8	Near Little Lake
18	07:57:09	34 03	116 25	B*	3.0	N 5	South of Joshua Tree
20	10:43:23	31.1	114.1	4.9	S 0		f California, Epicenter and time by USCGS
21	00:35:26	33 53	119 17	B*	2.7	G 4	Off Point Mugu
21	03:36:49	33 59	117 35	B*	2.8	K 4	Near Ontario.
22	14:47:11	33 53	115 44	C*	3.6	P 4	Northwest of Indio
southwes	r and origin	by Berk Damage	eley. Fe	elt wi	dely in	n Northw	Off Del Norte County. estern Calif. and s Crescent City VI, Smith
25	00:34:59	33 12	119 35	C	2.3	F 3	Near San Nicolas
27	08:18:03	33 58	117 35	B*	2.3	K 4	Near Ontario
30	13:35:29	41.8	11.8		5.8±	T15	Epicenter and origin time by USCGS. East Cache
Valley, points.	Utah. Exten Felt in 4 s	sive mod	erate dam	age ((VII) a	t Richmo	ond, Logan, and adjacent
31	03:26:43	33 57	117 56	B*	3.2	K 4	Near Fullerton
31	13:52:32	34 22	117 37	B*	2.6	K 5	Near Wrightwood
31	22:37:58	32 49	117 08	B*	2.9	L2	Near Mission San Diego. IV at San Diego and East San Diego

International Seismological Pasadena Bulletin on Local Shocks

July - September, 1962

Date	G. C. T.	Lat N.	Long W.			Index	Remarks
1962 Septem	ber						
1	15:53:44	33 57	118 22	B*	3.0	J 4	Near Inglewood. Felt: Inglewood, Baldwin Hills area,
4 origin Eureka	n time by USCO a (slight dama	GS. Felt	chiefly	in Hu	4.9 mboldt	A15 County.	Near Eureka. Epicenter and VI at Orick, Samoa, and
5	16:04:29	40.7	112.0		5.1±	T15	Near Salt Lake City, Utah. VI in Salt Lake City. Epicenter and origin time by USCGS.
6 7	23:25:11	34 38 41 06	117 04 115 48	B*	2.5	L. 6 M15	Northeast of Victorville West of Tuscarora, Nevada. Epicenter and origin time by USCGS
9	16:37:12	33 58	116 33	C*	3.1	M 4	West of Desert Hot Springs
14	23:50:02	34 09	118 41	C*	2.!	H 5	Near Woodland Hills
	front (rocks	fell); V	over a 1	arge	area i	ncluding	Near Walker Pass. VI near Inyokern, the southern Fresno and Los Angeles.
16	09:25:39	35 44	118 04	B*	3.3	3 8	Near Walker Pass
16	11:37:06	35 46	118 03	B*	3.5	J 8	Near Walker Pass
16	11:37:27	35 46	118 03	C	3.2	J 3	Near Walker Pass
16	18:12:35	34 29	119 41	B*	4.0	F 5	Near Santa Barbara, Felt at Santa Barbara
16	18:17:09	34 29	119 41	C	2.2	F 5	Near Santa Barbara
16	18:31:17	34 31	119 46	B*	2.9	F6	Near Santa Barbara. Felt at Santa Barbara
17	01:56:02	36 04	118 06	B*	3.0	19	Near Haiwse
17	09:30:04	35 45	118 03	B*	3.0	J 8	Near Walker Pass



-5- Pasadena Bulletin on Local Shocks July - September, 1962

Date	G. C. T.	Lat N.	Long W.	Q.	M.	Index	Remarks
1962 Septemb	er						
17	15:50:47	35 21	118 34	B*	2.9	H 7	North of Caliente
19	18:50:31	35 48	118 00	B*	3.1	J 8	Near Walker Pass
21	05:07:18	34 28	119 35	B*	3.0	F 5	Near Carpinteria
23	21:29:44	37.6	117.4	D	3.1	L12	Near Goldfield, Nevada
29	08:30:05	34 11	117 29	B*	3.3	L 5	Near Etiwanda
29	19:47:32	34 28	119 42	B*	2.9	F 5	Near Santa Barbara
March 6, 1964						C	F. Richter

J. K. Gardner J. M. Nordquist



SEISMOLOGICAL LABORATORY

California Institute of Technology Pasadena, California

BULLETIN ON LOCAL SHOCKS

October - December 1962

Date	G. C. T.	Lat N.	Long W.	Q.	M.	Index	Remarks
1962 October							
2	03:51:10	39.2	119.6		4.3	F15	Near Carson City. Epicenter and origin time by USCGS. V at Virginia City, IV at Carson, Felt at Reno (CGS)
5	15:39:03	33 20	116 14	В	4.1	N 3	North of Borrego. V at La Quinta; IV at Anza, Cathedral City, Hemet, Thermal etc. (CGS)
5	20:13:55	35 47	118 02	В	3.0	J 8	Near Walker Pass
9	14:07:34	35 49	118 02	В	3.0	J 8	Near Walker Pass
13	00:05:51	33 24	116 28	В	3.4	N 3	North of Borrego Springs
13	02:40:03	33 32	118 15	В	2.0	J 4	Off Newport Beach
13	17:49.6	36.5	120.4	D	4.2	E10	West of Fresno
14	10:14:32	38.7	124.0		4.6	A14	Off Pt. Arena. Epicenter and origin time by USCGS
19	13:52:33	34 21	116 48	В	3.0	M 5	Near Big bear
22	11:10:59	33 04	116 10	C	3.8	N 3	Near Vallecito; IV at Borrego Springs, Descanso, Pine Valley, Warner Springs (CGS)
22	22:11:42	35 03	118 54	В	2.6	H 7	Near Wheeler Ridge
26	05:30:18	35 22	118 33	В	2.8	H 7	North of Caliente
27	04:44:44	35 22	118 33	В	3.0	H 7	North of Caliente

-2- Pasadena Bulletin on Local Shockeismological October - December, 1962 Centre

Date	G. C. T.	Lat N.	Long W.	2. M.	Index	Remarks
1962 October						
27	12:49:53	33 03	116 13 E	3.3	N 3 Near Vai	lecito
27	20:59:30	33 03	116 14 E	3.1	N 3 Near Va	lecito
28	09:00:36	33 03	116 14	B 2.9	N 3 Near Va	llecito
damage	in Big Bear	Valley (g	oods off st	helves, etc	M 5 Near Big .) Felt from We h of Bear Valley	est Los Angeles
29	03:01:40	34 17	116 52	B 3.2	M 5 Near Big	g Bear
29	03:07:12	34 21	116 52	B 3.2	M 5 Near Big	g Bear
29	03:46:17	34 17	116 51	B 2.8	M 5 Near Bi	g Bear
29	05:35:05	34 19	116 52	B 3.7	M 5 Near Bi	g Bear
29	09:24:48	34 21	116 52	B 2.6	M 5 Near Bi	g Bear
29	12:35:29	34 18	116 52	B 2.8	M 5 Near Bi	g Bear
29	14:41:41	34 17	116 55	B 3.1	M 5 Near Bi	g Bear
30	00:09:27	34 19	116 53	B 3.1	M 5 Near Bi	g Bear
30	01:40:42	34 20	116 49	B 2.8	M 5 Near Bi	g Bear
30	05:46:00	34 16	116 54	B 3.2	M 5 Near Bi	g Bear
30	06:11:43	34 22	116 48	B 3.1	M 5 Near Bi	g Bear
30	11:28:44	34 21	116 48	B 2.8	M 5 Near Bi	g Bear
30	12:57:56	34 23	116 49	B 2.8	M 5 Near Bi	g Bear
31	05:48:52	34 20	116 49	B 2.8	M 5 Near Bi	g Bear
31	15:27:20	34 21	116 50	B 3.3	M 5 Near Bi	g Bear
31	19:06:33	33 10	116 24	B 3.2	N 3 Near Ba	anner
31	23:25:20	34 21	116 53	B 3.0	M 5 Near B	ig Bear

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Date	G. C. T.	Lat N.	Long W.	Q.	M.	Index	Remarks
1962 Novembe	er						
2	02:48:08	33 15	116 17	В	3.8	N 3	Near Borrego. IV at Descanso (CGS)
2	02:48:51	33 15	116 17	C	3.5	N 3	Near Borrego
2	04:30:57	33 13	116 14	В	3.5	N 3	Near Borrego
2	22:35:32	34 16	116 53	В	2.9	M 5	Near Big Bear
3	11:25:50	33 01	116 13	C	3.4	N 3	Near Vallecito
4	12:04:21	33 02	116 14	В	3.7	N 3	Near Vallecito
4	12:05:20	33 02	116 14	C	3.3	N 3	Near Vallecito
9	06:05:14	34 21	116 52	В	3.5	M 5	Near Big Bear
9	07:17:48	34 20	116 51	C	2.7	M 5	Near Big Bear
9	07:27:28	34 22	116 51	В	2.7	M 5	Near Big Bear
9	14:03:40	34 20	116 52	C	2.8	M 5	Near Big Bear
10	00:46:24	34 22	116 54	В	3.1	M 5	Near Big Bear
11	01:51:57	34 22	116 52	В	3.4	M 5	Near Big Bear. Felt at Big Bear (phone call)
11	15:50:30	34 18	116 50	В	2.8	M 5	Near Big Bear
12	07:53:56	35 11	118 08	В	3.5	J 7	North of Mojave
12	15:57:04	34 19	116 52	В	3.0	M 5	Near Big Bear
13	02:39:05	34 22	116 53	В	2.7	M 5	Near Big Bear
13	06:35:27	37.9	118.3	C	3.2	J12	East of Mono Lake (northeast of Benton)
14	12:29:56	34 19	116 53	В	2.9	M 5	Near Big Bear
18	14:59:06	34 14	116 55	C	2.7	M 5	South of Big Bear
28	03:03.8	36.6	120.6	D	4.0	D10	Western Fresno County

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Date	G. C. T.	Lat N.	Long W.	Q.	M.	Index	Remarks
1962 November							
28	03:23.2	36.6	120.6	D	4.0	D10	Western Fresno County
28	10:29:19	34 21	116 53	В	2.7	M 5	Near Big Bear
29	12:42:04	35 48	118 03	В	2.5	J 8	Near Walker Pass
30	23:51:05	34 20	116 55	В	4.3	M 5	Near Big Bear. Felt.
December							
Riversi		ig Bear (city and B	Big B	ear Lak		Near Big Bear. Felt at at Angelus Oaks, Colton,
1	00:37:01	34 19	116 53	C	3.8	M 5	Near Big Bear
1	00:40:44	34 18	116 55	В	3.3	M 5	Near Big Bear
1	00:44:46	34 21	116 51	В	3.4	M 5	Near Big Bear
1	00:57:29	34 22	116 52	В	2.7	M 5	Near Big Bear
1	01:15:05	34 21	116 54	В	3.4	M 5	Near Big Bear
1	03:51:47	34 19	116 54	В	3.4	M 5	Near Big Bear
1	05:07:57	34 19	116 53	В	3.2	M 5	Near Big Bear
1	06:58:26	34 22	116 50	В	3.4	M 5	Near Big Bear
1	08:39:45	34 21	116 55	В	3.4	M 5	Near Big Bear
1	10:36:13	34 20	116 54	В	3.7	M 5	Near Big Bear
1	14:06:02	34 17	116 54	В	3.4	M 5	Near Big Bear
1	20:44.9	35.0	116.3	C	3.1	N 7	South of Baker
1	20:48:03	34 20	116 53	В	2.9	M 5	Near Big Bear
2	00:41:38	34 20	116 53	В	4.4	M 5	Near Big Bear

Date	G. C. T.	Lat N.	Long W.	Q.	M.	Index	Remarks
1962 December	er						
2	01:58:27	34 19	116 53	В	3.1	M 5	Near Big Bear
2	03:06:36	34 20	116 51	В	3.6	M 5	Near Big Bear
2	10:36:52	34 19	116 53	В	3.1	M 5	Near Big Bear
2	20:34:58	34 18	116 55	В	2.7	M 5	Near Big Bear
2	21:18:57	34 18	116 52	В	2.7	M 5	Near Big Bear
349	10:16:19 22:53:58 05:33:48	37 30 34 18 34 00	118 38 11651 118 35	C B B	3.0 2.8 2.7	H12 M 5 H 5	Northwest of Bishop Near Big Bear Off Santa Monica
9	22:42:22	34 17	116 56	В	3.1	M 5	Near Big Bear
11	09:12:32	34 19	116 51	В	2.8	M 5	Near Big Bear
13	18:11:57	33 26	116 17	C	3.3	N 3	Santa Rosa Mountains
14	00:35:38	34 20	117 37	В	2.5	K 5	Near Wrightwood
14	07:03:32	35 23	118 45	В	2.7	H 7	North of Caliente
15	00:40.3	36.3	120.6	D	3.8	D 9	Near Coalinga
15	06:34:59	40.7	117.5		4.9	K15	Near Winnemucca, Nevada. Epicenter and origin time by USCGS
16	11:06:46	38.7	117.5		3.9		Near Winnemucca, Nevada er and Origin time by USÇGS
16	12:14:15	33 01	116 13	В	3.4	N 3	Near Vallecito
18	23:06:27	33 28	116 28	В	3.3	N 3	South of Anza
21	10:27:11	35 47	118 03	В	3.1	J 8	Near Walker Pass
31							Near Borrego

March 6, 1964

C. F. Richter
J. K. Gardner
J. M. Nordquist