



# LOCAL SHOCKS

1931 - 34

RR \_\_\_\_\_

DATE \_\_\_\_\_

Microfilm by

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LOS ANGELES, CALIF.



# Local shocks, 1931



# Local shocks, January 1931

No.	Day	PST	P	MW	R	SB	W	T	H	Q <sub>h</sub>	Epicentre	Remarks
1	2	7:07				3.0				I'	1724 near Santa Barbara	
2	2	21:49						92	?	I'		Felt at Altamonte, Humboldt Co.
3	3	3:19						24.0	36	I'		
4	3	3:46							0.8	I'		
5	4	20:57	16?		137					I'	1614 very near Haivwee near Barstow	
6	5	1:43						482	?	I'		Felt in region named as for San Francisco
7	5	5:26	2.3							I'	0210? Los Angeles?	
8	5	23:05	4.6							I'	0512? off Santa Monica?	
9	6	2:50				2.2				I'	1724 near Santa Barbara	
10	6	14:57						455	?	I'		
11	6	15:29	4.7		?	4.5		34.0	35	II'	San andreas Fault, not far from Gilroy	Reported felt at Santa Cruz & Hollister
12	6	16:10	?					34.3	?	I'	" "	
13	7	0:28						31.5	?	I'		
14	7	12:34						14.7	24.0	I'	1524? near Tonopah, Nevada?	
15	8	5:53	16.7		13.4	3.4		35	18.4	II'	1614 near Barstow	Felt at Big Bear City & Barstow
16	8	5:59	?		13.4			?	?	I'	" "	
17	9	15:49	2.2							I'	0210? Los Angeles?	
18	9	23:52				3?				I'		near Santa Barbara
19	10	5:04	2.6			7.8		34	18	I'	1321 SW of Tejon Pass	new source
20	13	17:35	?		13.0	7				I'	2113 San Jacinto Fault	
21	13	18:17						5.8		I'		
22	15	5:40						13.8	18	I'	1140 near Haivwee	
23	15	12:21:44	1.5?							I'		possibly fall of caisson on C.P.T. compass
24	15	18:45						29	32	I'		
25	15	18:55						34	34	I'		
26	16	18:25	4.2?			16.6		37	31	I'	3533 Vicinity of Coalinga	
27	17	0:03						8.5	?	I'		
28	17	0:04						?	?	I'		located north of 1000' mine shafts
29	17	0:04						8.7	?	I'		
30	17	0:07						8.4	?	I'		
31	17	0:07(2)	5.0		5.2	8.3	6.5	8.5	23	I'		
32	17	06:58						5?		I'		
33	18	13:24±						5.5		I'		
34	18	16:56	1.7		13.7				16	I'	1614 near Barstow	
35	18	17:04	?		?					I'		
36	20	20:00	3.2							I'	Inglewood?	
37	21	13:51	4.1		9.6	15.1		29		I'	0410 S. Wilkesbarre, Los Angeles	new source
38	21	15:36	?		16.1			13?		I'		
39	21	15:36	3.7		?					I'	0410?	
40	23	16:37						32	41	I'		



## Daily record of microseisms

Readings represent microseisms between 4:00 and 5:00 a.m. PST on the dates given.

No readings are given ~~with~~ when the microseismic motion is small and about normal for the given station. When microseisms are abnormally small, this is indicated by (0).

The entry consists of two figures separated by a comma, the first figure being the amplitude in ~~tenths of a millimeter~~, the second being the period in seconds.



# Microseisms, January 1930

Date	Longitude K-21	Mw	R	SO	LT	T	H	Remarks
1		2,8		1,5	-	0,3		
2	1,2	2,7 1,2	1,6	1,5	-	1/2,6		Rain
3	1,6	2,7	1,6	1,5	-	1,6	1/2,6	
4	1/2,6	4,6	1,6	1,5	-	1/2,6		
5		3,6		1/2,5	-	1/2,4		
6	1/2,3	1,3 1,6	-	1,2	-	1,4		
7		1,6	-		-			
8	1/2	1,2 1,7	-	1/2,2	-	1/2,3		
9	1/2,2	1,2 1,6	-	1/2	-	1/2,4		
10		1,6	-					
11		1,7	-					✓
12		1,6	-		✓			✓
13		1/2,5	-			0,2		
14		0,1,6	-			0,2		
15		1/2,6	-		0,1,2	0,1,3		
16		1,6	-	✓	0,1,2	0,1,4		✓
17		1,6	-		0,1,2			✓
18		0,8,6	-		0,2,3			
19		1,7	-		0,1,2			
20		1/2,6	-					
21		1/2,6	-					
22		0,4,7	-					
23		1/2,6	-					
24		0,4,6	-					
25		0,2,6	-					
26		1,1,6	-					
27		0,3,6	-					
28		0,4,6	-					
29		0,3,6	-					
30		0,2,6	-					
31		0,3,6	-					



February, 1931

Date	Paradey I-II	MW	R	SB	G	T	H	Remarks
1	0.3,6	-						
2	0.4,7	-						
3	0.2,6	-	1.3,2					
4	1/2,1 1/2,4	-						
5	0.3,5	-						
6	0.1,5	-						
7	0.05,5	-						
8	0.2,4	-						
9	0.3,6	-						
10	0.1,6	-						
11	0.1,6	-						
12	0.1,6	-						
13	0.2,6	-						
14	0.1,5	-						
15	0.1,2 0.2,3	-						
16	0.1,2 0.2,5	-	-					
17	0.3,6	-	-					
18	0.3,7	-	-					
19	0.2,5	-	-					
20	0.2,6	-	-					
21	0.2,7	-						
22	0.1,2 0.2,4	-						
23	0.3,6	-						
24	0.5,6	-						
25	0.5,7	-						
26	0.1,2 0.2,6	-						
27	0.1,3 0.1,6	-						
28	0.05,2 0.05,6	-						



# Travel time data, January 1931

NO.	Standard Station		P						S							
	P	S	P	MW	R	SB	W	T	H	P	MW	R	SB	W	T	H
1																
2	T	67 137														41
3	T	<del>44.8</del> 0.0 24.0							15	82						27
4																
5	R	44.0 57.9	7							9						
6																
7																
8																
9																
10	T	59 106														2
11	T	21 55	11		24 5				2	28		13				3
12	T	11 45	-1?						2							
13	T	56 88							7±							
14	T	23.2 37.9							14							23
15	R	17.4 32.8	3.1			19		22	6.0	6.4		41		43	44	
16	R	15.2 25.6	4.4											44	19	
17																
18																
19	SB	39.8 47.6	6.8						30	11.6						30
20	R	40 53					-5			24				-4		
21																
22	H	9.9 11.7							7.9						29.9	
23																
24	T	10 39								11						13
25	T	15? 49								11?						11
26	SB	24.7 32.3	5					32	32	21				53	47	
27	T	55.9 64.4							16							
28																
29																
30	T	27.0 35+							17							?
31	T	31.6 40.1	52.6		49.1	53.7	76.9		16.3	94.1		100	90.5	83		30
32																
33																
34	R	17.0 30.7	6						10	9.5						12
35	P	11														
36																
37	P	51.5 54.6			7	26			36			13	37			61
38	R	24 40							12?	4						7
39	R	45.9 48.9										11				62
40	T	51 83							6							15



# Local shocks, January 1931

No.	Day	PST	P. Mw	R	SD	G-T	H	Char	Epicentre	Remarks
41	22	22:23	-	-			1.7	I'	near Haikoo	
42	22	22:34	-	-			1.7	I'	" "	
43	22	22:37	27?	-	17.5	? 40	1.7	I'	Cayman region	
44	22	23:10	-	-			1.7	I'	near Haikoo	
45	23	23:22 (23:20)	70	-		55	6.5	I'	<del>near Haikoo</del>	some activity in region of shock
46	24	4:51	-	-	2.8			I'	17242 near Santa Barbara	
47	24	22:25	-	-		2.0		I'	near Tinian	
48	25	4:42	-	-			? 1.7	I'	near Haikoo	
49	25	20:30	-	-			1.7	I'	" "	
50	26	0:49	16.5	-	14.1	27	1.6	I'	1614 near Baston	
51	26	15:49	36?	-	20.3			I'	Los Angeles?	
52	27	16:38	-	-		5.7	12?	I'		
53	27	16:41	-	-		5.6		I'		
54	27	11:09	? 1.2	-				I'		Seismic?
55	27	16:05	? 1.2	-				I'	near Riverside	
56	28	0:50:50	5.5	-	11.1			I'	0311 felt in southeast Los Angeles	
57	30	12:41	? 7.3	-		73	18.7	J'	710719 southwest of Bishop	new source
58	30	12:44	44	-		7.8	18.7	I'		
59	30	13:02	-	-		8.4		I'		
60	30	13:12	-	-		7.9	20	I'		
61	30	14:25	-	-		7.4	19	I'		







# Local shocks, February 1931

No.	Day	PST	P	M	R	SB	W	T	Q	g <sub>m</sub>	Epicentre	Remarks
1	1	1:02	-	-	-	2.5±	-	-	-	J	1724	near Santa Barbara
2	1	15:08±	-	-	-	-	-	1.2	-	I'		near Haivice
3	1	15:15±	-	-	-	-	-	1.2	-	I'		" "
4	2	13:23	-	-	-	-	-	1.5	-	I'		" "
5	2	18:22	-	-	-	-	22	?	-	J'		
6	3	16:42	2.2	-	-	-	-	-	-	I'		Los Angeles?
7	5	5:16	-	-	-	3.0	-	-	-	I'	1724±	near Santa Barbara
8	5	5:16 (W)	-	-	-	2.6	-	-	-	I'	1724	" "
9	5	11:43	-	-	-	2.6	-	-	-	I'	"	" "
10	5	20:15	-	-	-	4.5	-	-	-	I'		
11	5	20:51	-	-	-	-	1.4	18	-	I'		near Tinamaha
12	6	11:59	-	-	-	-	7.2	30	-	I'		
13	8	16:06	38?	-	?	-	-	?	-	I'		possibly a teleseism also listed as such
14	8	17:07	-	-	-	-	-	?	1.7	I'		near Haivice
15	8	17:12	29?	-	39?	?	-	12.3	1.7	I'	71202	" "
16	9	1:50	3.6	-	-	-	-	-	-	I'		Los Angeles?
17	9	16:43	2?	-	-	-	-	-	-	I'		
18	10	14:41	-	-	-	3.3	-	-	-	I'	1724±	near Santa Barbara
19	10	16:34	2.3	+	-	-	-	-	-	I'		Los Angeles?
20	11	2:02	-	-	-	-	26	29.2	-	J'		
21	11	12:59	40	-	-	?	-	35.5	-	J'		
22	12	11:21	28.2	-	31	12.6	-	44	41.7	J'	2735	off Point Arguelles
23	13	2:52±	-	-	-	-	-	1	1	I'		near Tinamaha
24	13	3:00±	-	-	-	-	-	1	-	I'		" "
25	13	16:22	35	-	-	-	-	-	-	I'		Los Angeles?
25a	14	13:59	32	-	22	-	-	-	-	I'	332±	Felt at Lompoc (US 4/13) Shock reported at 9:19 PM
26	16	0:12	10.9	-	-	-	-	-	-	I'		near San Bernardino
27	16	2:12	10.9	-	-	?	-	5?	-	I'		Felt at San Bernardino & Riverside
28	16	3:07	10.7	-	-	-	-	-	-	I'		probably also felt
29	16	5:08	11?	-	-	-	-	-	-	I'		" "
30	16	5:27	10.8	-	-	28±	-	49?	?	I'		Felt at San Bernardino & Riverside
31	16	10:05	-	-	-	-	34.5?	31	-	I'		
32	16	10:10	-	-	-	-	34.4	28?	-	I'		
33	16	19:15	-	-	-	-	19.7	5.3	-	I'	2223	Inyo Valley
34	17	19:47	23	-	-	35	-	27.5?	5.5	I'	2223	Inyo Valley
35	17	7:59	-	-	-	-	55?	45	-	I'		
36	17	14:00	2.3	-	-	-	-	-	-	I'		Los Angeles?
37	18	19:26±	-	-	-	-	12.9	-	-	I'		
38	19	7:59	2.2	-	-	-	-	-	-	I'		Los Angeles?
39	20	2:40	?	-	-	-	-	-	-	I'		
40	21	0:10	36	-	48?	21	-	34	39	I'		Cajon region? reported from Pedro's Bluffs LH and (with wrong date) Cajon



Travel time data, February 1931

Standard  
Station

P

S

No.	Standard Station		P						S							
	P	S	P	MW	R	SB	LT	T	H	P	MW	R	SB	LT	T	H
1																
2																
3																
4																
5	P	54	76													28
6																
7																
8																
9																
10																
11																
12																
13	P	01	39									-19		6		76
14																
15	H	25.5	27.2													
16																
17																
18																
19																
20																
21	SB	52	92?	12					5	12						1
22	SB	04	17	29					41	44						70
23																
24																
25																
26																
27	P	11	220				27?		33			29.8				44
28																
29																
30	P	29.4	48.2				13		32			29.9				43
31																
32																
33	H	16.4	23.7	26			29			45		58				
34																
35																
36																
37																
38																
39																
40	SB	46	67	7			30		3	22	5	59				17



Local Shocks, February 1931

No.	Day	PST	P	MW	R	SB	LT	T	H	Mag.	Epicentre	Remarks
41	21	3:51	184	✓	88		-			I'		
42	23	2:01	33	-	?	25+	-	28.1	27'	II'	3239?	probably in same fault
43	23	2:32	33	-	?	27:	-	27.8	26	I'		
44	23	9:18±		-			-		2.4	I'		
45	27	14:32	2.7	-			-			I'		no angles?
46	28	2:06±		-			-	14.5		I'		
47	28	7:06		-			-	6.7	17.5	I'	8717	
48	28	9:19	43	-		45	-	6.7	18.4	II'	"	
49	28	9:28	?	-			-	6.7	17	I'	"	
50	28	10:10		-			-	6.5+		I'		
51	28	13:01		-			-	16		I'		
52	28	13:18		-			-	6.8	18.0	I'	70717	
53	28	19:40	43	-	34		-		?	I'		







Local shocks, March 1931

No.	Day	PST	M	W	N	S	E	T	H	Class	Epicentre	Remarks
1	1	3:23	3.9	-	-	-	-	-	-	I'		
2	1	12:50	-	-	-	-	-	37	33	I'		
3	1	17:16	4.0	-	-	-	-	-	-	I'	0408	near Whittier
4	1	20:54	2.0	-	-	4.1	-	4.0	?	I'		near Santa Barbara
5	1	21:29	-	-	-	-	-	6	-	I'		
6	2	9:37	17.1	-	12.7	28.7	-	-	-	I'	1811	NE of San Bernardino mountains
7	2	12:05	2.2	-	-	-	-	-	-	I'		Los Angeles?
8	2	16:35	13.1	-	-	-	-	-	-	I'		
9	3	3:09	-	-	-	-	-	14.8	-	I'		
10	4	14:09	-	-	-	3.7	-	-	-	I'		near Santa Barbara
11	4	15:08	2.3	-	-	-	-	-	-	I'		Los Angeles?
12	4	21:32	7.8	-	-	-	-	-	-	I'		
13	5	0:11	15	-	-	-	-	-	-	I'		
14	6	1:43	-	-	-	-	-	6.6	13.0	I'	710217?	
15	7	7:08	8.5	-	-	-	-	-	-	I'		
16	7	11:20	6.3	-	14	14.2	-	-	?	I'	051212	near San Dimas
17	7	13:29	3.1	-	-	24.5	-	10	3.7	I'	71004	W of Lake Arrowhead
18	7	22:59	?	-	-	-	-	-	-	I'		
19	8	6:35	5.1	-	12.4	12.9	-	33	-	I'	0512	off Santa Monica
20	8	13:41	9	-	3.3	24.5	-	-	-	I'	1003	near Riverside
21	9	19:30	9.0	9.0	-	83	-	85.0	83	I'		North California
22	10	3:24	2.0	1.8	-	-	-	-	-	I'		
23	10	4:11	-	-	-	-	-	-	-	I'		
24	10	20:29	3.1	2.4	-	-	-	-	-	I'	0389?	near Duarte?
25	11	1:25	-	-	-	-	-	19	36	I'		
26	12	17:06	22.3	20.2	-	-	-	-	-	I'		
27	14	6:42	22?	?	-	-	-	-	-	I'		
28	14	17:22	-	-	-	-	-	0.9	-	I'		near Temecula
29	15	7:43	-	-	-	-	-	-	-	I'		
30	15	13:10	?	?	-	-	-	30.3	26	I'		San Diego Co.?
31	16	5:28	2.3	2.1	-	14.2	-	24.3	20	I'	2331	near the Kittick (New source)
32	16	8:36	17	14	13.9	-	-	32?	?	I'	164	near Paustow
33	16	22:40	-	-	-	-	-	1.2	-	I'		
34	17	0:57	7.0	6.0	6.0	-	-	27.7	35	I'		near Belmont, Nevada?
35	17	5:58	-	-	3.1	-	-	-	-	I'	1724a	near Santa Barbara
36	17	16:12	2.3	1.8	-	-	-	-	-	I'		near Pasadena
37	17	21:54	10.1	9.7	2.5	-	-	39.7	?	I'	1003	near Riverside
38	19	3:06	6.9	47.4	39.6	-	-	85.5	63	I'		
39	19	3:28	6.3	15.3	9.9	-	-	48.6	7	I'		Agua Dulce
40	19	12:26	-	-	-	-	-	36.0	!	I'		







LOCAL SHOCKS, March 1931

No.	Day	PST	P	MWR	S	T	H	Q	Epicentre	Remarks
41	19	13:08	10.7	9.3	2.5			I'	1003	near Riverside
42	20	12:57					4.9	II		
43	20	14:40	2.3					I'		
44	21	7:53					1.0	I'		
45	21	22:12	4.1	4.0				I'		near Tinian
46	25	11:36	23.1	22.7	16.0		36.2	±I	2316	Whitney region
47	25	12:29	17.7	16.7	14.5			±I	1614	Agua Caliente fault
48	25	13:46	4.7					I'		near Bantow
49	30	5:06	1.2					I'		
50	30	22:51					23.8	I'		
51	31	1:19					2.3	I'		
52	31	12:33	4.7	4.5	5.2			±I	0505	near Hawaii

April 1931

1	1	4:14					0.9	I'		near Hawaii		
2	2	10:40					17	3.5	2223	Imperial Valley		
3	2	14:26	36	32.7	26			I'	3326	near Calicut		
4	3	0:44	28.6?	26?	?			I'				
5	3	3:23	14?	?	7			I'				
6	3	23:33	3.1					I'		Los Angeles?		
7	4	4:02	5.8	6.8	13.3			I'	0513	off Santa Maria		
8	4	18:09					29.5	34?	I'			
9	4	18:00					29.3	34?	I'			
10	4	19:17						1.4	I'	near Hawaii		
11	5	1:47						1.3	I'	" "		
12	5	8:04	3.1	?				I'				
13	9	20:40					17.2	8.4	I'			
14	10	8:22					5.2	5.5	I'			
15	11	9:52	7.6	9.4	4.2	21.0	14.1	41.3	29.6	±I	0704	felt at Ploos & Co zone
16	11	21:39	29	27	22				I'	2820	S. Jacinto fault	Felt at Westwood
17	12	10:41				4.3			I'			
18	15	5:18					7.2	9.5	I'			
19	15	20:10					40.1		I'			
20	16	1:32	25				3.6	1.2	I'	71401	near Hawaii	
21	16	4:59	7.2	6.4					I'			
22	16	14:45				17?			I'			
23	17	4:40	21.6	?	90?		92?	116	I'			
24	17	4:41	?	?					I'			
25	17	7:48	7.2	7.0					I'			
26	18	14:32				12?			I'			

? just shocks above?  
not seismic!







Local shocks  
April, 1931

No.	Day	PST	P	MW	R	SB	LS	T	H	Class	Epicentre	Remarks
27	19	13:41	26?							I'		
28	19	15:34				1.6	-			I'		
29	21	11:27	18.1	16.5	21	14.0	-	25.5	16	I'	1821	near Santa Barbara SE of Cotacumbilla new source
30	21	19:03						3.0		I'		
31	21	19:07	41?	37.5±				21.6	18.5	I'		
32	22	19:55					?			I'		
33	22	22:36	44.5	44				33±	29±	I'		
34	23	4:20	6.3	8.1			?			I'		
35	23	7:25	10.3	11.3'			?			I'		
36	23	8:34	34.1	36	26		18			I'	3326	near Calceciro
37	23	8:36	34.9	31?	25		19			I'	"	" "
38	23	8:41	31.7	33	26		18.5			I'	"	" "
39	23	9:00					18			I'		
40	23	9:02					?			I'		
41	23	15:34	21	20.6	23	32±	36	24	9.0	II'	2123	west of San Juan lake new source - felt at Cotacumbilla, etc.
42	24	4:02	7	8.1						I'		
43	24	10:28	55(0)	7.4?	13	22	18.5	54?	32.5±	II'	0613	new source. minor damage at Potosi, etc.
44	24	19:01	17.9	17.5	8.7	27	10.1	?	?	I'	1809	Agua Caliente Sancti? new source
45	27	6:21						29		I'		
46	27	23:08	22.4	22	13	39	22.0	-	30	II'	2213	Mojaca Dept new source Felt at Cotacumbilla, etc.
47	29	4:41	31?	6.2	13	14.3	23	42	28	II'	0513	Chalchicomula new source Felt at Cotacumbilla, etc.
48	29	14:02	?	2.4±						I'		
49	29	23:34±						1.2		I'		near Tuxtepec
50	30	13:31					?			I'		



Travel time data, April 1931

No	Standard Station		P							S						
	P	S	P	MW	R	SB	LS	T	H	P	MW	R	SB	LS	T	H
27																
28																
29	SB	3.6	18.2	35	5.3	15	\	-	14.9	7.0	7.2	22	\	-	26	
30																
31																
32																
33																
34	P	11.4	17.7	\	1.3					\	3.1			35		
35	P	35.7	45.9	\	1.8					\	2.9			-1 <sup>m</sup> ?		
36	LS	44.4	63	21.8	29	12	\			38	36	19	\			
37	LS	24	42.9	24	24	12	\			38.6	38	18.6	\			
38	LS	14.9	33.4	22.5	23	13.2	\			38.7	38	20.2	\			
39																
40																
41	T	30.0	54	8	7	8.0	21.3	25	\	5	4	7	29	39	\	
42																
43	P	3.8	9.1	\	2.3	8.7	14.9	17.0	40.1	4.3	15	31	30.2	93.4		
44	R	58.4	67.1	11.4	11.8	\	-0.1			19	20.6	\	-	-1.3	93?	
45	<del>R</del>	<del>18.6</del>														
46	R	18.6	31.6	10.5	9.8	\	36	12.6	25	20	18.7	\	61	20.6		42
47	P	45.4		\	1.2	12	10	23	29							



Local shocks, May 1931

Epicentre Remarks

No.	Day	PST	P	MW	R	S <sub>0</sub>	S <sub>1</sub>	F	H	Char.	Epicentre	Remarks
1	1	17:52				34				I'	1724a	near Santa Barbara
2	2	3:46						32	50	I'		
3	2	5:33	12.8	11.4	6.0					J'	1305a	San Bernardino mts. Felt at Lake Arrowhead (?)
4	4	15:29						3.4		J'		near Haunsee
5	4	16:07	6.0							I'		
6	4	15:21	5.4	5.4	13.8					I'		near Newhall?
7	4	16:26	5.9	6.1						I'		
8	5	11:07	3.6?							J'		
9	5	7:06	?	8.6						J'		
10	5	16:23	39.8?	36.6	30	20.3				J'		
11	5	16:47	3.5?	4.4?						I'		
12	5	20:52						?		I'		
13	5	20:58						4.0		I'		
14	5	21:54						?		I'		
15	5	22:25						3.9		I'		
16	5	23:44	7.9	?						J'		
17	6	0:17						24		I'		
18	6	2:22	9.7	8.8	8.1	?		32	20	I'	1008	near Victorville Felt at Victorville Arrowhead H.S.
19	6	10:45						3.8	?	J'		
20	6	16:30	?	?	26±	17				I'		
21	6	14:29						27		J'		
22	6	19:32						26.6	?	J'		
23	6	20:19						26.7		I'		
24	6	20:25						26.6		I'		
25	6	22:23						19?		I'		
26	7	1:25						30		I'		
27	7	1:54	48.6?	18±	33±	28±				I'	4235	Head of the Gulf of Calif.
28	7	6:00						27		J'		
29	7	7:03	18.1	16.5	8.4	12.				I'	1808	Felt at Lago SJ fault (?) New course
30	7	9:11						4.0		J'		
31	7	9:54						2.7		I'		near Haunsee
32	7	15:16						26	?	I'		
33	8	17:38						26.5		I'		
34	9	14:12	28.0?	27.7?	18.7?	16+				I'	2609	East of Sutter Sea
35	9	14:43	5.7	6.2						I'		
36	9	16:47						23±		I'		
37	9	17:31						3.3		I'		
38	9	18:31						?		I'		
39	10	17:20						28±		I'		
40	10	17:20	5.1	5.9						I'		







Local shocks, May 1931

No.	Day	PST	P	MW	R	S/S	U	T	H	dir	Epicentre	Remarks
41	10	18:43					?			I'		
42	10	21:29						?	?	I'		
43	10	22:22	54?	?				15.7	27	I'		
44	10	23:22						28±	29?	I'		
45	10	23:27						7.0	19	I'		
46	11	14:21	16.2		9.5?					I'	1611?	off beachside?
47	11	17:20						27.6	40?	I'		
48	12	15:26	36?	36?	34?		27±			I'		
49	12	22:01	4.2	4.0?						I'		
50	13	6:01						27.0±		I'		
51	13	6:02						26±		I'		
52	14	9:05	4.0	5.0						I'		
53	14	10:54	16.6	14E					17?	I'		negative Dart
54	15	5:56							?	I'		
55	15	14:29						5.8		I'		
56	15	14:59						54±		I'		
57	15	18:07	3.0	2.4						I'		near Puertaca
58	16	1:52						5.7		I'		
59	16	2:24	14.7	22?	14.4		9.9			I'	224?	agosto Caliente Fumb?
60	16	6:31						27.4±		I'		
61	17	22:46	40±					9±	22±	I'	70920	
62	17	22:50	45?	40?				9.5	21.2	I'	"	
63	18	12:25	36.2	?	?			29.3	23?	I'		
64	19	20:19						25.0	26?	I'		
65	21	0:52				3.0				I'	17242	near Santa Barbara
66	21	12:19	6.6	9.8	15.2	11.6	-	31.5		I'	6715	near Cornell
67	22	14:44±						1.8		I'		near Tinian Island
68	25	5:17	19.6	16.6	9.7		?			I'	2012	N. of 29 Palms
69	25	5:37					3.8			I'		
70	27	10:57	13.3							I'		
71	27	14:25±				2.6				I'	1724	near Santa Barbara
72	28	20:50	13.1	13.7?						I'		
73	28	17:27					2.7			I'		
74	29	2:43	13.2	13.9	19	10.3	?	51	21	I'	1320	San Juan Paso
75	30	8:25	26.2	?	15		11.2			I'	2615?	St. Sault?
76	30	8:28	19.5	18.3	20.6		?	20.7	7.8	I'	2022	near Brown
77	30	13:08						5.8		I'		
78	30	16:36								I'		
79	30	20:41						28.3		I'		
80	31	6:17	11.2	8.1?	?		?			I'		
81	31	7:43						31.5		I'		
82	31	22:08						3.2		I'		
83	31	21:12						3.0		I'		







# LOCAL SHOCKS, June 1931.

No.	Day	PST	P	MW	R	M3	CT	H	H	Chuz	Quarten	Remarks
1	1	0:30	4.9 24.4	6	16.1	35±	29.0	4H	23	I'	2015	negative forest
2	2	1:24±						54?		I'		
3	3	21:39	93?					42	61	I'		
4	3	21:44						46		I'		
5	4	4:34					4.4			I'		
6	4	4:44	17.9	27.8?	18.3		4.6			I'	1917 <sub>2</sub>	west of the Jolla
7	4	6:						3.6		I'		
8	4	20:21 ±						2.5		I'		
9	4	23:47	?	15?						I'		
10	5	7:44	?	?						I'		
11	5	16:46	?	30?		41?		34?	32±	I'		
12	5	18:15	?					24±	29	I'		
13	5	19:04±						21	44?	I'		
14	6	11:29	3.3	2.4						I'		
15	6	23:45	35!	?		31?		35	37	I'		off the coast N. of San Luis Obispo
16	7	16:45						22.2	26?	I'		
17	7	18:41						7.4	8.0?	I'		
18	7	20:01						?	?	I'		
19	7	13:31				1.9				I'		
20	8	12:29	7.1	8.0						I'		
21	8	21:00						27.3	?	I'		
22	10	4:17	51?	?				40±	54?	I'		
23	10	10:35	?							I'		
24	13	2:42	31.8?					9.4	4.0	I'	70904	west shore of Crows Lake
25	13	14:02							1.6	I'		near Haivree
26	13	17:36				3.2				I'	17212	near Santa Barbara
27	14	21:51	34	35	28		16.2			I'	3326	near Callejas
28	16	4:05	?	?	59		402			I'		Gulf of California
29	16	4:15	?	?	?		38?			I'		
30	16	6:55±						36		I'		
31	16	11:11	25	2.1						I'		
32	17	18:02±						34		I'		
33	20	12:42						37	?	I'		
34	22	4:39						43	31	I'		
35	23	1:05							2.1	I'		near Haivree
36	23	7:50							1.7	I'		" "
37	23	8:25							1.7	I'		" "
38	23	8:28							1.8	I'		" "
39	23	8:32							1.8	I'		" "
40	23	8:54	7.6	6.7	3.2	26		38	24	I'		near Crows Lake Crows Lake plandy etc



Travel time data, June 1931

No.	Standard station		P							S						
	P	S	P	MW	R	S	BLT	T	H	P	MW	R	SB	L	T	H
1																
2	R	003	16.4	5.3	4.1			18		8.4	9	7.6		31		16
3																
4																
5																
6	L	31	36	25	22	19					39	43				
7																
8																
9																
10																
11	H	41		11	24.2		01									
12																
13																
14	P	19.2			1.0											
15	H	33		6	8		-5									
16																
17																
18																
19																
20	P	12.4	19.5		3.1						6.6					
21																
22	H	09		13	17											
23																
24																
25																
26																
27	L	23	39	24	24	15				42	43	27				
28	L	46	88	38	?	16				25	3	33				
29	L	35	73			7						13				
30																
31	P	15.2	17.7		-1.0						-1.3					
32																
33																
34																
35																
36																
37																
38																
39																
40	R	19.5	23.0	25	4.9		27			9.9	8.4		50			



Local shocks, June 1931

No.	Day	PST	P	MWR	R	SB	L	T	H	d <sub>h</sub>	Epicentre	Remarks
41	23	10:07							1.7	I'	near Haimee	
42	23	10:23							1.9	I'	"	
43	23	11:37						13	1.7	I'	"	
44	23	11:58							1.8	I'	"	
45	23	12:30							1.7	I'	"	
46	23	12:34							1.8	I'	"	
47	23	15:21							1.8	D	"	
48	23	15:26	25.5					12.7	1.7	I'	"	Felt at Haimee
49	23	15:27							1.8	I'	"	
50	23	15:29							1.8	I'	"	
51	23	15:30							1.8	I'	"	
52	23	15:31							1.8	I'	"	
53	23	15:32(-)							1.8	I'	"	
54	23	15:32							1.8	I'	"	
55	23	15:39							1.7	I'	"	
56	23	15:49							1.8	I'	"	
57	23	16:07							1.8	I'	"	
58	23	16:31							1.8	I'	"	
59	23	16:33							1.8	I'	"	
60	24	11:53	60?	74	77	?		?	7.2	I'		
61	24	17:54	185	17.5	14.5			30	1.7	I'	propre Desert near Baston	
62	24	19:46	17	17.4		20			I'	1729	near Baston	
63	24	21:07				2.1			I'	"	"	
64	25	16:07				1.8			I'	"	"	
65	26	14:07	14.1	17.6	7.7		21		I'		San Bernardino mts	
66	27	23:11							1.8	I'	near Haimee	
67	29	4:39							1.7	I'	"	
68	29	4:42	26	21			12.8		1.7	I'	"	Felt
69	29	4:43							1.8	I'	"	
70	29	4:46							1.8	I'	"	
71	29	4:54							1.8	I'	"	
72	29	5:55							1.8	I'	"	
73	29	7:07							1.8	I'	"	
74	29	8:38							1.7	I'	"	
75	30	2:29					27	34	I'			
76	30	23:36t							1.8	I'	near Haimee	







# LOCAL SHOCKS, JULY 1931

No	Day	PSI	P	MW	R	SB	LT	T	lt	Q <sub>max</sub>	Epicentre	Remarks
1	2	0:45±							3.1	I'	near Hawaii	
2	2	12:28	6.4	5.2	4.2					I'		
3	2	16:08					4			I'		
4	3	4:16	?	?	5.3		44?		?	I'		
5	3	4:51							1.7	I'	near Hawaii	
6	5	0:29	24.7	2.5	16.4		13			I'		
7	5	22:03±						4.8		I'		
8	7	18:11±							2.1	I'	near Hawaii	
9	8	4:41	32	29	21.8		14.0			I'	2820 near Westmorland	
10	9	22:53	20	17.8	20.7	?	13.2			I'		
11	11	6:59	36	:	27	18.5	16.0			I'	3326 near California	
12	11	8:37						12.4	1.7	I'	near Hawaii	
13	14	4:25	5.3	5.8	5.8	-				I'		
14	14	7:44±						17	19	I'		
15	14	13:26			1.8	-				I'		
16	15	0:50±							1.8	I'	near Hawaii	
17	15	3:09	36±	26?	24	-	22			I'	3326 near California	
18	15	5:47			2.5	-				I'		
19	15	10:40	27?	34?	?	-	?	44	33?	I'	off W coast W of South Island	
20	15	19:32	?	?	87	-	73	?	?	I'		
21	15	20:08	?	?		-		43	31	I'		
22	16	0:				-		7		I'		
23	16	9:00	?	?	?	-	57			I'		
24	17	16:41				-	1.4			I'		
25	17	16:56				-	1.4			I'	} near to Jolla	
26	18	20:05				-		26.8	32±	I'		
27	19	18:14				-		8		I'		
28	20	19:15	32±	36	40?	-	?	40±	39	I'		
29	21	12:08	37?	35?	?	-	?	45±	47	I'	✓	
30	21	22:54	47?	44?	?	:		35±	28	I'		
31	24	5:00±						24		I'		
32	24	18:10±						6.9		I'		
33	27	18:45	3.8	4.7	8.9	?	12.7	?		I'	0309 near Clewley & Compton	
34	28	0:40	60?	53	53		?	67	61	I'	Arizona	felt at Flagstaff & Williams worked at Tucson
35	28	13:59	31	28		16.2				I'		
36	30	20:11	35	34	27		22.4	?		I'		
37	30	21:22	26	38	29	49	23	?	53?	I'	San Andreas Fault N of Yuma	near source
38	31	7:21				25				I'	1724 near Santa Barbara	
39	31	15:46	8.4	7.0	3.5					I'		

Also, blast originating near Pasadena (at the Page Rock)  
 recorded at 14:32 July 18 (P. NW); at 15:51 July 21 (P. NW); at 13:06 July 27 (P. NW); and at 13:04 July 31 (P. NW)



Travel time data, July 1931

No.	Standard station		P					S							
	P	S	P	MW	R	SB	LT	T/H	P	MW	R	SB	LT	T	H
1															
2	R	19.2	23.6	1.2	7.0	\			3.6	-0.2	\				
3															
4	LT	54	98			20	\		38	38	29	\			
5															
6	R	24.2	45.6	11.4	10.4	\	-2		19.4	19.3	\		-6		
7															
8															
9	LT	12	26	19	22	12	\		37	37	20	\			
10	LT	5	18	11	17	12	\		18	22	20	\			
11	LT	4	22	28		21	\		46	46	30	\			
12															
13	P	35.9	38.2	\	0.4	0.1			\	0.9	0.5				
14															
15															
16															
17		20	42	21		13	\		35		15	\			
18															
19	P	33.3		\	2	9	-	23							
20	LT	29	102			15	\		49	52	29	\			
21															
22															
23	LT	50	107	18	24	15	\					\			
24															
25															
26															
27															
28	P	33	65	<del>33</del>	3	16	-		<del>33</del>	6					
29	P	22		\	1	9	-	20							
30	P	31		\	2	16	73								
31															
32															
33	P	41.0	47.8	\	0.5	0.6	?	3.3	\		5.7		24.2		
34	P	38		\	-4	-17									
35	P	38		\	-12			-29	69	-15		-44			
36	P	23	58	\	1	-10		-22	\	0	-18		-36		
37	LT	59.6	83	22	21	10	52	67 52	35	36	16	78	\		
38															
39	R	52	55	5	4	\			10	8	\				











Local Shocks, August 1931

No.	Day	PST	P	MW	R	S	L	T	H	Char	Epicentre	Remarks
41	25	7:09	3.4	2.3?						I'		
42	25	10:54	2.3	2.3						I'		Probably a blast in
43	26	8:35	2.9	2.1						I'		arroyo de los Angeles
44	26	9:06	8	12.3	?	7.5	-	36.4	?	II'		" ?
45	26	16:40	0.4	2.2						I'		Blast at the Eagle Rock
46	27	13:33	31?	27.5	27(?)	13		?	38	I'		
47	28	5:38	3.4	5.5	?					I'		
48	29	1:14	3.7	?	27?	20		48.5	40	I'		
49	29	6:14	2.3	2.1						II'		
50	30	4:17	7.4	8.4	14	11	24.4	33	22	I'	0715a San Andreas fault	near Elizabeth Lake
51	30	5:20	?	?				7.4	18.9	I'	0707.9	
52	30	16:49	8.9	9.6	12.4	16	?	49	38	I'	0912 San Pedro channel	
53	30	22:50	7.3	7	?					I'		
54	31	6:49	2.5	2.2						I'		Probably blast, arroyo San

55  
56  
57  
58  
59  
60  
61  
Two small disturbances, probably blasts  
at the Eagle Rock, at Pasadena Aug 20, 15:54 and 17:08  
Several similar shocks on other dates, mostly at Pasadena only

September, 1931

62	1	7:31	3.6	5.1						I'		
63	2	10:12	?	3.6		21?		42	42?	I'		Lompoc region
64	3	11:19	20.7	20	12.8		11.7	53	35	I'	2113 San Jacinto fault T 85 R 5 E	
65	4	4:35				3.5				I'	1724	near Santa Barbara
66	5	5:34	?	?						I'		Probably not seismic
67	6	7:36:30	9.8	?	?	8.7	-	?	8.9	I'		northern California
68	7	21:07						2.0	12	I'	T0212	near Tinian
69	8	5:50	1.9	4.3	2.3	2.4		37.3	2.9	I'		near Santa Barbara T 61 R 30 W?
70	9	9:00	10?	12.3	8					I'		T 75 R 4 W?
71	10	3:04	18.3	17	?			2.9	8?	I'		T 285 R 39 E (MD)
72	11	18:11	3.1	2.3						I'		Blast (probably)
73	12	2:01	6.1	5.6	4.7			3.9	3.7	I'		Southern Nevada
74	13	2:14	5.1	?				3.8	3.8	I'		" "
75	14	3:25						4.4	4.1?	I'		
76	15	3:07	5.1	5.7		4.1	-	3.4	3.6	I'		region of San Benito
77	16	10:29				3.3	-			I'	1724	near Santa Barbara
78	17	1:58	4.5?	4.2		?	-	?	3.7	I'		Prichard region
79	18	20:36	16.7	16.8	9.8	4.1	-	5.1	4.8	I'	1709	34° 03' N 116° 43' W
80	19	21:01	1.7	1.7	9					I'		by arroyo - Fall of Palm Spring, etc.







Local shocks, September 1931

No.	Day	PST	P	M <sub>W</sub>	R	S <sub>13</sub>	C <sub>T</sub>	T	H	Mag	Epicentre	Remarks
20	9	21:50	17		9(?)		-			I'	1709	
21	9	22:54	20.1	?	11.1		-			I'		
22	10	0:20					-		1.2	I'		
23	11	3:53				1.3	-			I'		near Hawaii
24	12	3:44	7.9	7.2	2.2		-			I'	0802	near Santo Barbara near Riverside
25	12	11:01	12.3	?	8.3		-	34	?	I'		Blast at Victorville origin time observed
26	13	23:51	4.1	46(?)			-			I'		
27	15	4:56					-	338	39	I'		
28	17	18:49	37.2	35.1	30.1		14.7			I'		Calicut region N.S. of Tacumba
29	18	2:47	7.1	5.7	?					I'		
30	18	6:08			1.6					I'		
31	18	7:15	38	36	?		20.1			I'		
32	18	7:46	56?	32?	?					I'		
33	20	15:57	270	24	18					I'	2718	north of Little San Bernardino mt.
34	21	6:35	46	45	39.4	?	25.7	28	58	I'		
35	22	19:14						24	32	I'		
36	23	9:25	41	36	46?	40	56?	2.7	14.8	I'		near Timanah
37	23	0:30						2+		I'		Reported felt.
38	23	1:39						2.5		I'		
39	23	3:00						3		I'		
40	23	13:58						2.3		I'		
41	24	20:31	7.0	7.1	2.5					I'	8803	near Riverside
42	25	3:11	45?	?	?		20+	?		I'		
43	25	3:33			?		22			I'		
44	25	3:56	35?	37?	?		24	73?	55?	I'		
45	25	4:09					20			I'		
46	25	6:29					20?			I'		
47	25	18:56						27.3	32.8	I'		
48	26	17:26	10.4	7.6?	?		-			I'		
49	26	19:00	37	?	?		-			I'		
50	27	3:50	39	39			-			I'		
51	29	8:33						5.8		I'		
52	29	9:02	46	42		?		5.9		I'		
53	30	7:47	42	44	34	51	20	89	63	I'		Felt at El Centro, San Diego, Escondido, etc.
54	30	9:49				4.8				I'		
52a	29	9:21						6.5		I'		
52b	29	16:26						5.4		I'		
52c	30	2:23						10.0	?	I'		
55	30	15:49	40	38	31		23	?	?	I'		
56	30	19:06	?	?	?		20?			I'		
57	30	21:41	?	?	?		20?			I'		



## Minor blasts

Recorded at Pasadena and Mt. Wilson

September, 1931

A.

At the Eagle Rock, near Pasadena

Sept. 5, 17:34, 17:46, 17:49, 17:56

Sept. 9 17:16, 17:27

Sept. 12 13:34

Sept. 15 17:22, 17:26

Sept. 16 four small blasts

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B.

On the Pasadena-Palmdale highway construction

Sept. 10 9:57

Sept. 12 13:51

Sept. 16 15:58

Sept. 18 6:46, 22:07

Sept. 20 12:33

Sept. 21 5:40

Sept. 22 19:26 Reported at Riverside

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C.

note also major blast at Victorville,

Sept. 12 at 11:01 (#25 of local shock list)





No.

Station  
P S

P

S

P	MW	R	SB	L	T	H	P	MW	R	SB	L	T	H
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6.

Day

PST

P

MW

R

SB

L5

T

H

Mag

Epicentre

Remarks

C

C

C



# Teleseisms, 1930

## January

No	Day	GCT	$\rho$	MW	R	SB	LS	T	U	Ph	Epicentre & remarks
1	2	9:53:16	3 <sup>m</sup> 28 <sup>s</sup> ??	?	?	?	-	4 <sup>m</sup> 2 <sup>s</sup>	4 <sup>m</sup> 1 <sup>s</sup>	III <sub>2</sub>	17°N. 105°W (USCGS). 17°N. 105°W (USCGS)
2	2	11:16	?	?	?	-	?	?	?	I	After shock of above
3	2	11:41	?	?	?	-	?	?	?	I	130°N. 95°W?
4	2	18:48:55	?	?	?	-	?	?	?	I	to sea coast
5	2	20:14	?	?	?	-	?	?	?	I	to sea coast possibly local
6	10	7:54:11	?	-	?	?	?	?	?	I	to sea coast
7	12	20:43:46	?	-	?	?	?	?	?	I	to sea coast
8	15	1:56:21	4 <sup>m</sup> 43 <sup>s</sup>	-	4 <sup>m</sup> 40 <sup>s</sup>	?	?	4 <sup>m</sup> 58 <sup>s</sup>	4 <sup>m</sup> 48 <sup>s</sup>	IV <sub>2</sub>	56°N. 164°E. Kamchatka 15°N 97°W (USCGS). 16°N 96°W (USCGS) Disturbance in Oaxaca, Mexico
9	15	13:59:03	?	-	?	?	?	?	?	I <sub>2</sub>	After shock of above
10	15	23:25:33	?	-	?	?	?	?	?	I <sub>2</sub>	202°S. 145°E. N of New Guinea (Mariana)
11	16	19:25:31	?	-	4 <sup>m</sup> 40 <sup>s</sup>	?	4 <sup>m</sup> 32 <sup>s</sup>	?	4 <sup>m</sup> 47 <sup>s</sup>	II <sub>2</sub>	15°N 97°W. Felt in Mexico City & Oaxaca
12	17	2:52:40	L-P = 2 <sup>m</sup> 7 <sup>s</sup>	-	L-P = 2 <sup>m</sup> 4 <sup>s</sup>	?	L-P = 2 <sup>m</sup> 4 <sup>s</sup>	?	2 <sup>m</sup> 7 <sup>s</sup>	IV <sub>2</sub>	25°N 110°W
13	17	5:41:30	?	-	4 <sup>m</sup> 30 <sup>s</sup>	?	4 <sup>m</sup> 36 <sup>s</sup>	?	?	I <sub>2</sub>	15°N 97°W. Felt in Mexico City & Oaxaca
14	18	5:24	?	-	?	?	?	?	?	I	to sea coast
15	23	5:57	4 <sup>m</sup> 28 <sup>s</sup>	-	4 <sup>m</sup> 34 <sup>s</sup>	?	?	?	?	I <sub>2</sub>	95°N 97°W. Oaxaca, Mex
16	24	5:29	?	-	?	?	?	?	?	I <sub>2</sub>	110°N 101°W Feb. 1931
17	24	17:50:06	10 <sup>m</sup> 30 <sup>s</sup>	-	?	?	?	10 <sup>m</sup> 32 <sup>s</sup>	10 <sup>m</sup> 28 <sup>s</sup>	IV <sub>4</sub>	10°N 155°E, Caroline Is
18	25	12:39:29	4 <sup>m</sup> 24 <sup>s</sup>	-	4 <sup>m</sup> 15 <sup>s</sup>	?	?	?	?	II <sub>2</sub>	15°N. 97°W. Mexico
19	27	14:35:41	?	-	?	?	?	5 <sup>m</sup> 04 <sup>s</sup>	?	I <sub>2</sub>	Strong at sea and Anchorage, Alaska 61°N 152°W
20	27	20:28	?	-	?	?	?	?	?	IV <sub>2</sub>	25°N 93°E, Burma 10°N 105°E, USA (Mariana)
21	28	21:37:09	11 <sup>m</sup> 2 <sup>s</sup>	-	11 <sup>m</sup> 3 <sup>s</sup>	10 <sup>m</sup> 47 <sup>s</sup>	11 <sup>m</sup> 5 <sup>s</sup>	10 <sup>m</sup> 42 <sup>s</sup>	10 <sup>m</sup> 49 <sup>s</sup>	III <sub>4</sub>	15°N. 104°E. USCGS 16°N 143°E. USA Mexico? 17°N 112°W 12°N 140°E. USA
22	29	16:45	?	-	?	?	?	?	?	I <sub>2</sub>	15°N. 97°W. Strong in Oaxaca
23	29	17:16	4 <sup>m</sup> 4	-	?	?	?	?	?	II <sub>2</sub>	

## February, 1931

1	2	23:00:12	11 <sup>m</sup> 26 <sup>s</sup>	-	11 <sup>m</sup> 24 <sup>s</sup>	11 <sup>m</sup> 19 <sup>s</sup>	-	11 <sup>m</sup> 32 <sup>s</sup>	11 <sup>m</sup> 32 <sup>s</sup>	IV <sub>4</sub>	34°S. 177°E. USCGS Disturbance on Cook Island, N.Z.
2	3	0:58	?	-	?	?	-	?	?	I	After shock of 2 <sup>nd</sup> Jan to sea coast. Local?
3	4	12:58	?	-	?	?	-	?	?	I	Local?
4	7	1:01	?	-	?	?	-	?	?	I	Local?
5	7	3:37	?	-	?	?	-	?	?	I	0° 105°W?
6	8	0:06	?	-	?	?	-	?	?	I	possibly local
7	8	1:57	11 <sup>m</sup> 19 <sup>s</sup>	-	11 <sup>m</sup> 23 <sup>s</sup>	?	-	11 <sup>m</sup> 24 <sup>s</sup>	?	I	34°S. 177°E. New Zealand
8	9	2:21	?	-	?	?	-	?	?	I <sub>4</sub>	15°S 176°W Pan
9	10	6:53	11 <sup>m</sup> 13 <sup>s</sup>	-	?	?	-	?	?	II <sub>4</sub>	50°S 102°E
10	12	6:03	11	-	?	?	-	?	?	I <sub>4</sub>	14°N 93°W
11	12	8:12:36	?	-	?	?	-	?	?	I	
12	13	0:54	?	-	?	?	-	?	?	I	FC Mexico?
13	13	1:40:40	11 <sup>m</sup> 39 <sup>s</sup>	-	11 <sup>m</sup> 32 <sup>s</sup>	11 <sup>m</sup> 15 <sup>s</sup>	-	11 <sup>m</sup> 40 <sup>s</sup>	11 <sup>m</sup> 25 <sup>s</sup>	II <sub>4</sub>	New Zealand 34°S 177°E Wellington
14	13	19:29	?	-	?	?	-	?	?	I	
15	14	14:18	?	-	?	?	-	?	?	I	50°S 102°E



Teleseisms

February 1931

No.	Day	GMT	P	MW	R	SB	LT	T	H	Class.	Epicerter and Remarks
16	16	19:00:11	?	-	-	?	-	?	?	I <sub>4</sub>	Northern Japan 42°N 142°E
17	20	5:44:44	9 <sup>m</sup> 19 <sup>s</sup>	-	-	9 <sup>m</sup> 21 <sup>s</sup>	-	9 <sup>m</sup> 10 <sup>s</sup>	9 <sup>m</sup> 13 <sup>s</sup>	II <sub>4</sub>	deep focus. Region of N. Japan
18	21	10:26	-	-	-	-	-	?	-	I	possibly local
19	21	22:45±	-	-	-	-	-	?	-	I	"
20	23	2:25:04	?	-	?	?	-	?	?	I <sub>u</sub>	computed 37°N 157°E Sumatra
21	26	11:16±	-	-	-	-	-	?	-	I	possibly local
22	27	9:8:10	?	-	-	-	-	?	?	I <sub>u</sub>	About 20°N 126°E East Indies
March 1931											
1	1	14:33:54	?	-	-	-	-	?	?	I <sub>4</sub>	
2	2	2:31:09	11 <sup>m</sup> 35 <sup>s</sup>	-	11 <sup>m</sup> 34 <sup>s</sup>	11 <sup>m</sup> 29 <sup>s</sup>	-	11 <sup>m</sup> 40 <sup>s</sup>	11 <sup>m</sup> 36 <sup>s</sup>	II <sub>u</sub>	200S 168°E Loyalty IS.
3	2	8:47	-	-	-	-	-	?	-	I	possibly local
4	7	0:48:04	?	-	?	?	-	?	?	I <sub>u</sub>	100N 87°W USCGS 70.5N 84°W T54
5	7	10:13:24	?	-	-	-	-	?	?	I <sub>u</sub>	105.161°E Solomon I S.
6	7	11:34	?	-	-	-	-	?	-	I	local?
7	7	18:30	?	-	-	-	-	?	-	I <sub>u</sub>	
8	8	2:03:52	?	-	?	-	-	?	?	I <sub>u</sub>	02°N 23°E USCGS Yugoslavia
9	8	6:09:37	?	-	-	-	-	?	?	I <sub>u</sub> ?	
10	8	17:53:59	?	-	-	-	-	?	-	I <sub>u</sub> ?	
11	9	4:00:28	7 <sup>m</sup> 35 <sup>s</sup>	-	7 <sup>m</sup> 35 <sup>s</sup>	9 <sup>m</sup> 24 <sup>s</sup>	-	9 <sup>m</sup> 30 <sup>s</sup>	9 <sup>m</sup> 15 <sup>s</sup>	II <sub>u</sub>	110N 140°E (USCGS) Iago, Japan 32N 140°E Manila
12	11	12:39	10 <sup>m</sup> 15 <sup>s</sup>	?	-	10 <sup>m</sup> 06 <sup>s</sup>	-	10 <sup>m</sup> 13 <sup>s</sup>	10 <sup>m</sup> 15 <sup>s</sup>	II <sub>u</sub>	174N 145°E (USCGS) 200°20'N 149°E Manila Maritime IS.
13	12	10:53:09	10 <sup>m</sup> 18 <sup>s</sup>	-	-	-	-	10 <sup>m</sup> 10 <sup>s</sup>	?	I <sub>u</sub>	22°0N 146°36'E Manila
14	12	19:17:04	?	-	-	-	-	?	-	I	
15	12	19:21:33	?	-	-	-	-	?	-	I	
16	12	21:11:14	?	-	-	-	-	?	-	I	
17	14	14:12:15	?	?	-	-	-	10 <sup>m</sup> 6 <sup>s</sup>	10 <sup>m</sup> 8 <sup>s</sup>	I <sub>u</sub>	
18	14	21:55	?	-	-	-	-	?	-	I	
19	15	16:45:13	?	-	-	-	-	?	-	I <sub>u</sub>	
20	18	07:07	?	-	-	-	-	?	-	I	
21	18	08:14:31	10 <sup>m</sup> 02 <sup>s</sup>	10 <sup>m</sup> 06 <sup>s</sup>	10 <sup>m</sup> 03 <sup>s</sup>	?	-	?	10 <sup>m</sup> 13 <sup>s</sup>	II <sub>u</sub>	340S 92°W (USCGS). Chile. 33°54'20" W (SSA)
22	18	15:15	?	-	-	-	-	?	-	I	
23	18	20:27	?	?	?	?	-	?	?	II <sub>u</sub>	Philippines (5°N 127°30'E 4°N 128°E Manila)
24	19	06:39	?	?	?	?	-	?	?	II <sub>u</sub>	Philippines 18°20'N 120°10'E (Manila)
25	28	12:53:16	Δ=113°	?	?	?	-	?	?	III <sub>2</sub>	7°S 128°E (SSA) Banda Sea
26	29	17:32	?	-	-	-	-	?	-	I <sub>u</sub>	16.5S 94°W (SSA)
27	29	18:03:09	9 <sup>m</sup> 19 <sup>s</sup>	9 <sup>m</sup> 14 <sup>s</sup>	-	?	-	9 <sup>m</sup> 09 <sup>s</sup>	-	II <sub>u</sub>	deep focus. Region of Voz
28	31	16:09:11	?	-	?	-	-	?	-	I <sub>u</sub>	Destructive at Managua Nicaragua



Teleseisms

April 1931

No.	Day	ECT	P	MW	R	SB	Q	T	H	Char.	Epicentre & Remarks
1	1	13:20	?				-	?	?	I	130N 920W off Central America
2	3	2:05:58	?	?			-	?	?	I	110S 790W off Peru
3	3	2:30:56	?	?	?		-	?	?	I	400 SW
4	3	23:30:27	9 <sup>m</sup> 18 <sup>s</sup>	9 <sup>m</sup> 25 <sup>s</sup>	9 <sup>m</sup> 18 <sup>s</sup>	9 <sup>m</sup> 08 <sup>s</sup>	-	9 <sup>m</sup> 18 <sup>s</sup>	9 <sup>m</sup> 25 <sup>s</sup>	II <sub>4</sub>	Damaged in Argentina "Boyafo" wave?
5	4	19:20	?	?			-	?	?	I	
6	5	3:13:50	?	?					?	I	
7	6	7:02:45	11 <sup>m</sup> 22 <sup>s</sup>	?	10 <sup>m</sup> 57 <sup>s</sup>	?	?	?	?	II <sub>4</sub>	Solomon I.S.
8	7	7:58						?	?	I	
9	9	23:12:33	9 <sup>m</sup> 14 <sup>s</sup>	9 <sup>m</sup> 13 <sup>s</sup>				9 <sup>m</sup> 02 <sup>s</sup>	9 <sup>m</sup> 07 <sup>s</sup>	II <sub>4</sub>	North of Vozz
10	12	2:13:44	?	?				?	?	II <sub>4</sub>	200S 1680E locally S.
11	16	9:49:59	8 <sup>m</sup> 37 <sup>s</sup>	?				?	?	II <sub>4</sub>	
12	16	22:37	?	?				?	?	II <sub>4</sub>	
13	18	13:10	?				-	?	9 <sup>m</sup> 13 <sup>s</sup>	II <sub>2</sub>	
14	19	2:04:09	3 <sup>m</sup> 15 <sup>s</sup>	3 <sup>m</sup> 15 <sup>s</sup>			-	?	4 <sup>m</sup> 57 <sup>s</sup>	II <sub>2</sub>	190N 1090W USCGS
15	19	13:52	?	?			-		?	I	local?
16	22	0:17:47	?	?	?	?	-	?	?	I	
17	24	17:35:19	4 <sup>m</sup> 10 <sup>s</sup>	?	?	?	?	?	?	II <sub>4</sub>	100N 1510E USCGS 40.5S. 158.52 Mexico
18	24	18:49	?	?						I	
19	25	5:19	?					?		I	
20	26	4:32:01	?	?				?	?	I	
21	27	17:09:14	?	?				?	?	I	Destruction in Mexico 340N 460E
May, 1931											
1	1	22:45:49	?	?	?			?	?	II <sub>4</sub>	80N. 700W. Venezuela
2	2	22:37	?	?	?		?			I	
3	2	23:30:48	?	?	?			?	?	I	
4	6	4:36:21	?	?				?		I	
5	9	10:37:46	?	?	?	?	?	?	?	II <sub>2</sub>	23.7N. 108.5W. Gulf of Calif.
6	10	19:35:18	?					?	?	I	
7	12	1:47:09	8 <sup>m</sup> 9 <sup>s</sup>	8 <sup>m</sup> 10 <sup>s</sup>	?	8 <sup>m</sup> 55 <sup>s</sup>	?	8 <sup>m</sup> 00 <sup>s</sup>	8 <sup>m</sup> 05 <sup>s</sup>	II <sub>4</sub>	540N 1610E Kambatten (JSA)
8	15	7:53:48	9 <sup>m</sup> 55 <sup>s</sup>	9 <sup>m</sup> 50 <sup>s</sup>				9 <sup>m</sup> 35 <sup>s</sup>	9 <sup>m</sup> 36 <sup>s</sup>	II <sub>4</sub>	
9	16	20:53:07	L-P 9 <sup>m</sup> 16 <sup>s</sup>	?	?	?	?	L-P 9 <sup>m</sup> 11 <sup>s</sup>	?	II <sub>2</sub>	140.7N. 91.5W. Mexico (JSA)
10	20	0:06	?					?	?	I	
11	20	2:34:52	L=790	?	?	?	?	?	?	II <sub>2</sub>	27.5N. 17.2W. N. of Mexico
12	20	10:05	?					?	?	I	
13	20	22:05:42	L=780	?	?	?	?	?	?	II <sub>4</sub>	280S. 740W. Coast of Chile
14	27	6:09:15	?					?	?	I	Local?
15	27	6:44:26	?					?	?	I	JSA 560N 1680E Kambatten
16	27	10:25:52	?	?	6 <sup>m</sup> 26 <sup>s</sup>	?	?	7 <sup>m</sup> 02 <sup>s</sup>	6 <sup>m</sup> 41 <sup>s</sup>	II <sub>2</sub>	JSA 180N 102W
17	29	5:23:25	?	?	?			?	?	I	USCGS 950N 1560W JSA 88N 1580W



Telesisms June ~~1930~~ 1931

No.	Day	G.C.T	P	MW	R	SB	LT	T	H	Q
1	1	12:07	?	?	?		?	?	?	F
2	2	2:49:40	?	?				9 <sup>m</sup> 40 <sup>s</sup>	?	I
3	3	12:05	?	?	?	?	?	9 <sup>m</sup> 29 <sup>s</sup>	?	I
4	9	14:03:45	?	?	?			?	?	I
5	9	16:10:50	?							I
6	10	17:05	?	?					?	I
7	13	15:46:00	?					?	?	I
8	15	11:30	?	?	?	?	?	?	?	I
9	17	12:21:45	?	?	?	?	?	?	?	I
10	20	15:15:24	?	?	?			?	?	I
11	21	1:26±	?					?	?	I
12	21	12:27:27	?	?	?	?	?	?	?	I
13	22	9:57:14	?					?	?	I
14	22	14:40:59	?					?	?	I
15	23	6:26:55	9 <sup>m</sup> 52 <sup>s</sup>					?	?	I <sub>u</sub>
16	28	5:29:24	?	?				?	?	I <sub>u</sub>
17	28	13:35:28	?	?				?	?	I
18	28	16:36:40	?	?				?	?	I
19	29	13:11:11	?					?	?	I
20	29	16:55:00	9 <sup>m</sup> 46 <sup>s</sup>		?			?	?	I <sub>u</sub>
21	29	20:36:04	?	?	?	?	?	?	?	I <sub>u</sub>

Epente,  
Remarks

Japan

local?  
USCGS 150°N 108°W  
JSA 190°N 110°W

USCGS 27°S 72°W

July 1931

1	7	4:00:10	?	?	?	?	?	?	?	I <sub>u</sub>
2	11	6:07:11	?	?				?	?	I
3	12	10:15:14	?					?	?	I
4	17	3:54	?					?	?	I
5	17	9:19:23	?	?	?	-	?	?	?	I <sub>u</sub>
6	18	5:38:27	9 <sup>m</sup> 23 <sup>s</sup>	?	?	-	?	?	?	I <sub>u</sub>
7	18	11:33:41	8 <sup>m</sup> 0 <sup>s</sup>	7 <sup>m</sup> 59 <sup>s</sup>	8 <sup>m</sup> 01 <sup>s</sup>	-	?	?	?	I <sub>u</sub>
8	18	12:03:30	?	?		-		?	?	I
9	19	9:54	?	?		-		?	?	I
10	19	11:11				-		?	?	I
11	19	11:28				-		?	?	I
12	19	20:19	?	?		-		?	?	I
13	20	5:11:40	?			-		?	?	I
14	20	8:41:41	Δ=70°	?	?	-		?	?	I <sub>u</sub>
15	21	3:48:57	10 <sup>m</sup> 15 <sup>s</sup>	10 <sup>m</sup> 14 <sup>s</sup>	10 <sup>m</sup> 16 <sup>s</sup>	-	10 <sup>m</sup> 16 <sup>s</sup>	10 <sup>m</sup> 18 <sup>s</sup>	10 <sup>m</sup> 15 <sup>s</sup>	I <sub>u</sub>
16	23	14:33:19	Δ=100°	?	?	?		?	?	I <sub>u</sub>
17	27	7:22:59	5 <sup>m</sup> 27 <sup>s</sup>	?	?		?	?	?	I <sub>u</sub>
18	27	16:36:41	?	?	?		?	?	?	I
19	29	11:48:25	8 <sup>m</sup> 02 <sup>s</sup>	?	?		?	?	?	I <sub>u</sub>

USCGS 140°N 86°W  
JSA 140°N 97°W  
USCGS 210°S 60°W  
JSA 210°S 71°W  
USCGS 53°N 162°E  
JSA 58°N 150°E

JSA 150°E 20°N 170°E  
USCGS 150°E 20°N  
JSA 150°E 20°N  
USCGS 150°E 20°N  
JSA 150°E 20°N  
USCGS 150°E 20°N



# Teleseisms August, 1931

No.	Day	G.C.T.	P	MW	R	SB	LS	T	H	Mag	Epüentia and remarks
1	2	20:23:53	?							I	
2	2	23:39:40	8 <sup>4</sup> 8 <sup>5</sup>	?	?			?	?	IV <sub>h</sub>	
3	3	14:30	?							I	
4	6	10:28:28	?	?	?			?	?	I	May be local
5	7	2:25:52	10 <sup>4</sup> 4 <sup>5</sup>	?	10 <sup>4</sup> 4 <sup>5</sup>	?	?	?	?	I	region of New Guinea
6	6	22:30 ±	?							I	
7	9	1:36	?					?		I	
8	10	11:	?							I	
9	10	14:46:14	?							I	
10	10	21:32:09	4 <sup>2</sup> 10 <sup>0</sup>	?	?	?	?	?	?	IV <sub>h</sub>	Central area (about 47°N 90°E) S
11	13	22:21:49	?	?	?	?		?	?	III <sub>h</sub>	
12	14	16:19:34	?	?	?	?		?	?	IV <sub>h</sub>	
13	15	2:32:27	?	?	?			?	?	IV <sub>h</sub>	no surface wave
14	15	12:55:31	?	?	?			?	?	IV <sub>h</sub>	no surface wave
15	15	15:16:53	?					?	?	I	
16	16	2:14:19	?					?	?	IV <sub>h</sub>	
17	16	8:14:32	?					?	?	IV <sub>h</sub>	
18	16	11:21	?	?	?		?	?	?	IV <sub>h</sub>	Foreshock
19	16	11:43:18	?	?	?	?	?	3 <sup>4</sup> 2 <sup>5</sup>	?	IV <sub>h</sub>	Felt in Texas S
20	16	13:36	?	?			?	3 <sup>4</sup> 2 <sup>5</sup>	?	IV <sub>h</sub>	Aftershock
21	17	5:17:28	?				?	?		IV <sub>h</sub>	
22	17	13:24 ?	?				?	?		I	
23	17	15:01:25	?							IV <sub>h</sub>	
24	17	18:01:58	?	?				?	?	IV <sub>h</sub>	
25	18	5:52:22	?					?	?	I	
26	18	14:34:27	4 <sup>4</sup> 10 <sup>0</sup>	?	?	?		?	?	IV <sub>h</sub>	Central area about (47°N 90°E) S
27	18	19:42	?	?	?			3 <sup>4</sup> 2 <sup>5</sup>	?	IV <sub>h</sub>	Texas (aftershock)
28	18	21:50:57	?					?	?	I	
29	22	22:45:50	?	?						I	
30	23	18:03:46	?	?	?	?	-	81	100	III <sub>h</sub>	42°N 117°W (USA) off coast of Oregon S
31	24	21:54:35	?					?	?	IV <sub>h</sub>	33°N 69°E (USCGS)
32	25	22:27:30	?	?			-	?	?	I	
33	27	15:47	4 <sup>2</sup> 10 <sup>0</sup>	?	?	?	?	?	?	III <sub>h</sub>	destructive in Baluchistan S
34	28	13:03:17	?	?	?		?	?	?	IV <sub>h</sub>	
35	28	23:33:55	?	?	?			?	?	I	
36	29	16:46:38	?	?				?	?	I	
37	29	23:41:07	?					?	?	I	
38	31	6:47:49	10 <sup>4</sup> 5 <sup>5</sup>	?	?		?	?	?	IV <sub>h</sub>	One local to Shigley



# Teleseisms

## September, 1931

No.	Day	G.C.T.	P	MW	R	SB	LS	T	H	Epicentre and remarks
1	21	3:06:41	?	?				?	?	
2	6	8:12:18	?	?			-	?	?	
3	9	13:42:32	2 <sup>m</sup> 05 <sup>s</sup>	2 <sup>m</sup> 26 <sup>s</sup>	2 <sup>m</sup> 08 <sup>s</sup>	?	-	82	1 <sup>m</sup> 44 <sup>s</sup>	41°N 126°W USCGS; 40.5°N 121.5°W JSA
4	9	20:50:43	10 <sup>m</sup> 06 <sup>s</sup>	10 <sup>m</sup> 06 <sup>s</sup>	10 <sup>m</sup> 07 <sup>s</sup>	10 <sup>m</sup> 06 <sup>s</sup>	-	10 <sup>m</sup> 07 <sup>s</sup>	10 <sup>m</sup> 05 <sup>s</sup>	20°N 144°E Maritime T.S. USCGS 18°S 146°E JSA
5	11	23:19	?	?	?		-	?	?	
6	12	1:54:50	?	?	?		-	?	?	
7	14	15:50:11	?	?	?		-	?	?	
8	16	12:28:07	?	?	?		-	3 <sup>m</sup> 47 <sup>s</sup>	?	
9	16	17:55:18	10 <sup>m</sup> 03 <sup>s</sup>	?	?		-	?	?	no surface waves
10	21	10:46:21	?	?	?		-	?	?	
10	21	2:32:10	9 <sup>m</sup> 57 <sup>s</sup>	9 <sup>m</sup> 57 <sup>s</sup>	10 <sup>m</sup> 02 <sup>s</sup>	?	?	9 <sup>m</sup> 58 <sup>s</sup>	?	Damage in Japan
11	21	13:47:37	10 <sup>m</sup> 58 <sup>s</sup>	?	11 <sup>m</sup> 04 <sup>s</sup>	?	?	10 <sup>m</sup> 23 <sup>s</sup>	?	New Zealand
12	22	9:41:51	?	?	?		?	?	?	
13	24	18:43:52	?	?	?		?	?	?	
14	25	6:19	4:13 <sup>0</sup>	?	?	?	?	?	?	strong shock off Sumatra
15	25	21:50:58	?	?	?		-	?	?	
16	26	19:56:45	?	?	?		-	?	?	
17	26	1:09:29	?	?	?		-	?	?	
18	26	21:01:42	?	?	?		-	?	?	
19	28	17:37:54	?	?	?		-	?	?	
20	29	2:33:07	?	?	?		-	?	?	
21	30	5:46:08	?	?	?		?	?	?	



Local shocks, 1932.

Q indicates quality of epicentral determination, as follows:

- E  $\emptyset$  unlocated, or general region indicated with uncertainty.
- D 1. only located as to general region.
- C 2. location probably not in error by  $x > 10$  km.
- B 3. " " " " " "  $> 5$  km.
- A 4. location very accurate, usually from careful study.

M is theoretically the logarithm of the registered amplitude in microns, as recorded by our standard torsion instruments at an epicentral distance of 100 km. The logarithm is given to the nearest half unit.



Local shocks, January 1932.

No.	Date	0	Pasadena	Mt. Wilson	Rivers.	Sta. Barb.	La Jolla	Tinemaha	Haiwee
1	1 15:54:08	10,12	10,12						
		Δ 13	13						
		A 0.1	0.2						
2	2 08:42:42	52.6, 59.9; 52.1, 58.2; 48.7, 51.6							
		Δ 60	51	28					
		A 0.1	0.9	7.2					
3	3 09:57:58	115.0, 157.3; Δt = 27;	97						
		Δ 315	310	250					
		A 0.1	0.1	0.2					
4	3 15:23:52						64.9, 73.7		
		Δ					70		
		A					0.5		
5	3 18:02:53						66.3, 75.1		
		Δ					70		
		A					0.2		
6	4 13:30:02	13.0, 20.1	16, 22	6.9 (Δt 2.7)					
		Δ 58	50	27					
		A 0.1	0.4	3.0					
7	4 18:37:34	39.5, 43.0	45, 51	59					
		Δ 33	48	80					
		A 0.1	0.1	0.1					
8	5 05:59:04	133	136				109, 183	?	
		A 0.1	0.1				0.5	0.2	
		Δ 900	900				600		
9	5 07:35:30						120, 183	?	
		Δ					500		
		A					0.4	0.2	
10	6 00:08:39	50.1, 57.4	54	42.86 (Δt 2.3)					
		Δ 60	50	25					
		A 0.1	0.3	4					
11	6 11:49:70 (11:50:10)	157		142, 175				?	
		Δ 600		500					
		A 0.1		0.1				0.1	
12	6 12:11:40	127, 156		115, 174			143, 168, 226	177, 150, 220	
		Δ 600		500			700+		
		A 0.3		0.2			0.2	0.2	
13	6 12:47:35	88		96				?	
		Δ 600		500					
		A 0.1		0.1				0.2	



No.	Epicenter	Q	M <sub>x</sub>	Remarks
1	34° <sup>17'</sup> 33", 118°11'	3		Blast; road construction.
2	33 53 117 38	3	2.5	Near Prado.
3	32 02 115 50	2	3	Lower California.
4	37 27 119 00	1	2	Probably Sierra south of Mammoth.
5	" "	1	2	" " " "
6	33 54 117 39	3	2	North of Prado.
7	33 52 118 17	2	1.5	Near Nigger Sbugh. <i>Probably h = 25 km ±</i>
8		0	4.5	Northern California?
9		0	4	" " ?
10	33 53 117 38	2	2	Near Prado.
11		1	4	Gulf of California.
12		1	4	" " "
13		1	4	" " "



Local shocks, January 1932.

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Rivers.	Sta. Barb.	LaJolla	Tinemaha	Haiwee
14	6	15:58	05						
		A	0.1						
15	6	18:29	20.4	25.6, 28.0	31, 34	44			
		Δ	25	33	77				
		A	0.1	0.1	0.1				
16	6	21:39	20	47.2	45.1	( $\Delta t$ 2.6)	26, 29		
		Δ	85	72	26				
		A	0.0	0.1	2.3				
17	7	06:55	30	87, 128	127	73, 114			
		Δ	315	310	250				
		A	0.1,	0.1	0.2				
18	7	13:25	54	70, 81	71.9, 81.9	99.8, 737, 83			
		Δ	85	88	150	90			
		A	0.1	0.1	0.1	0.1			
19	7	18:34	45	100, 102, 139.2, 141.1	101, 100.6	122.1, 177	92.1	154, 163, 219	$\Delta t$ 54
		Δ	315	310	250	450	600	500	
		A	1.4	1.0	0.8	0.5	0.2	0.3	
20	7	18:45		19	21	04, 33			
		A	0.1	0.1	0.1				
21	8	09:01	49			56, 61			
		Δ				40			
		A				0.3			
22	8	10:17	51	61.8, 104.7	65, 105.6	78	51, 92	48, 83	$\Delta t$ 40
		=	10:16	59	380	385	450	310	280
		Δ							300+
									0.7
		A	0.2	0.1	0.1	0.8	3		
23	9	12:54	38	40.4	41, 43				
		Δ	13	13					
23a	See opposite	A	0.1	0.1					
24	10	02:44	62.2	65.3, 74.1	65, 72	58.2, 61.3			
		Δ	71	60+	30				
		A	1.2	1.5	7				
24	10	03:25	04.6	161.6, 25.0	15	104, 13.3			
		Δ	67	60	28				
		A	0.1	0.1	1.2				
25	10	07:39	27.4	50.7, 51.7, 67.3	50, 51, 65	39.4, 47.4			
		Δ	135	130	65				
		A	0.2	0.3	1.7				
26	10	08:54				$\Delta t$ 2.2			



No.	Epicenter	Q	L	Remarks
14		0		
15	33°54' 118°12'	3	1	Near Clearwater.
16	34 11 117 17	3	1	Near Arrowhead Springs.
17	32 02 115 50	2	3	Lower California.
18	34 45 118 40	2	2	San Andreas zone near Gorman.
19	32 02 115 50	2	4	Lower California.
20		0		Possibly not seismic
21		1	2	Santa Barbara region
22	36 40 121 20	1	4	San Benito County. Reported felt.
23	34 <sup>17</sup> 118 11	3		Blast; road construction.
24	34 15 117 25	3	3	Cajon Pass
24a	34 16 117 26	2	2	" "
25	33 38 116 56	3	3	Northwest of Aguanga
26		1	1.5	Near Santa Barbara.
27				

Add check 23a: Pasadena Jan. 9 20:07:31.4, 31.9, 39.2 . A=0.1

Mt. Wilson 20:07:39, 44. A=0.2 .

Q=1 , L=1 . Santa Monica Bay district ? ~~20:07:33~~ O=20:07:



Local shocks, January 1932.

No.	Date	P <sup>o</sup> S <sup>o</sup> T. Pasadena	Mt. Wilson	Riverside	S <sup>o</sup> Barbara	La Jolla	Tinsmaha	Haiwee
27	11 09:24:29	86,120	86.4,117.9	74.9,99.7	---	62,83.5	133	?
		Δ 315	310	250		180	600-	500-
		A 0.2	0.3	0.3		1.7	0.2	0.1
28	11 13:08:37.1	47.0, 53.9	46.1,51.7	43.6,47.2	---	---		
		Δ 55	45	33				
		A 0.5	1.0	3.0				
29	11 18:48:02				---	57.2,94.7		?
						Δ300, A 0.1		0.1-
30	12 15:41:27.4			31.0,33.3	---			
				Δ 24, A 0.5				
31	12 20:27:18.4				---	21.6,23.2		
						Δ 20, A 0.1		
32	13 16:51:08	40.7, 58.8	41.5, 61.6		---	65,103		
		Δ 170	175			330		
		A 0.2	0.2			0.1		
33	13 19:16:15.9	61,89	60,88.8	63	---	29.3,38.4		Δt 5.3
		Δ 275	270	290		73		46
		A 0.2	0.3	0.1		8		5
34	13 21:40				---	Δt 2.8, A 0.2		
35	14 00:55:46	54.7,60.1	56.9,63.2, 66.5	79.8	---			
		Δ 46	52	109				
		A 1.8	1.0	0.2				
36	14 11:35:51.7	57.0, 60.8, 65.6	57.9,62.9	63.4,71.5	---	112,152		?
		Δ 25	36	65		350		
		A 3	2.7	0.3		0.1		
37	16 00:06:	42.9,47.5;45.7,52.6, 56.7			---			
		Δ 40	57					
		A 0.2	0.1					
38	16 04:17:02.6	11.5,18.7	11.2,17.3	06.6,9.4	---			
		Δ 59	51	28				
		A 0.1	0.2	0.7				
39	17 12:06:55.8	71.0, 71.7	70.6,91.8	60.9,63.5	---			
		Δ 84	82	26				
		A 0.2	0.2	5.5				
40	17:20:29:04.5	190,27.5	31.4		?			
		Δ 68	80					
		A 0.2	0.1		0.1			
41	18 02:49:35	58.1,73.7	56.3,69.8			111		
		Δ 120	110					
		A 0.2	0.2					



No.	Epicenter	Q	L	Remarks
27	32° 00' 115° 45'	2	3.5	Lower California.
28	33° 15' 117° 35'	1	2.5	Mountains north of Cucamonga.
29		0	2.5	Central California?
30		1	1.5	Cajon Pass?
31		1	0	Near Tinemaha.
32	34° 26' 119° 52'	2	3	West of Santa Barbara.
33	36° 35' 117° 49'	3	3	SW border of Saline Valley, Felt at Keeler and Lone Pine.
34		1	0.5	Near Tinemaha.
35	34 22 118 35	2	3	Region of Newhall.
36	33 55 118 02	4	3	Felt at Whitter, Downey, Santa Fe Springs, etc.
37		1	2	Santa Monica Bay?
38	33 53 117 38	2	1.5	Near Prado.
39	33 43 117 18	2	2	Temescal Canyon.
40	34 18 118 55	1	2	Hoorpark district, Ventura County
41		1	2.5	Mojave Desert



Local shocks, January 1932.



No.	Date P.S.T.	Pasadena	Mt. Wilson	Riverside	Sta. Barb.	La Jolla	Tinemaha	Haiwee
42	18 <sup>06</sup> 14:48:58						68,83.2	
43	19 10:26:47.2	<del>27.4</del> 27.4	<del>28.2</del> 28.2	<del>30.0</del> 30.0			Δ110; A 0.1	
44	20 08:29:14.8	27.4, 28.2; 29.4, 30.0 37.3	<del>29.4, 30.0</del> 40.7, 41.3	31.2, 42.4, 43.8			77.8, 104.0 Δt 29 Δ 185, A 0.6 A 0.3	
45	20:11:15:5D	52.7, A 0.1	50.7, A 0.2	55.4, 60.2				
46	20 12:21:35.7	50.3, 61.1	52.3, 63.4	53.4, 54.0, 65.6, 67.1		57.8, 71.8		
47	20 <sup>14</sup> 22:46:44	45.8, 46.5	45					
48	20 19:05:03.3	16.9, 26.1	15.7, 23.0	08.6, 11.2				
49	20 19:07:24.3	38.2, 47.0	36.7, 44.7	29.8, 32.5		64.5		
50	21 09:47:49						75, 96.5	
51	21 10:52:03.6						Δ 160, A 0.5	
52	21 18:56:30						07.9, 09.4 Δ 19, A 2.5	
53	23 04:01:36.4	95, 125		114		668.1, 91.8 69.6, 92.3	91, 128 (Δ 350, Δ 0.2)	
54	23 18:31:32.0					57.8, 78.5	Δ 182, A 0.6 57.8, 78.5, 60.6, 82.1, 119.4 Δ 158, A 0.8 Δ 285, A 0.2	
55	23 18:39:16						42, 62+ Δ 160, A 0.2	
56	23 23:28:36.4	38.1, 42.1, 44.9; 47.6	43.0, 44.5, 46.7					
57	25 00:54:16	102	103	89		42.4, 61.9		
58	25 07:34:13	15.0, 17.7	14.6, 17.2 15.4, 17.4					
59	25 13:16:27	119.3		101		55, 74+		



No.	Epicenter	Q	L	Remarks
42		1	2	Probably east of Mono Lake.
43		1	3	Central California?
44	33°28' 118°07'	3	2.5	San Pedro Channel.
45	34 02 118 11	3		Blast; road construction.
46	33 25 118 20	3	3.5	Off Catalina Island.
47	34 <del>02</del> <sup>17</sup> 118 11	3		Blast; road construction.
48	34 13 117 23	3	1.5	Cajon Pass; San Andreas Rift.
49	34 13 117 23	3	3	" " " " "
50		1	3	Northeastern California?
51		1	1	Near Tinamaha. <i>Blast?</i>
52		0	3.5	Central California?
53	32 00 115 45	2	3	Lower California.
54		1	3	Region of Bridgeport.
55		1	2.5	" " " " ?
56	<del>33 54</del> <sup>34 01</sup> 118 <del>12</del> <sup>18</sup>	3	2	<del>Near Clearwater</del> <i>Southeast Los Angeles City</i>
57	32 02 115 50	2	3	Lower California.
58	34 <del>03</del> <sup>18</sup> 118 11			Blast; road construction.
59	32 02 115 50	2	3	Lower California.



Local shocks, January 1932



No.	Date P: S. T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemahā	Haiwee
60	25 14:57:14.6						59.8, 70.3	74.9, 95.8, 97.8
	Δ						80	167
	A						2.3	1.1
61	25 18:37:53.4	66.4, 75.0	<del>64.1, 71.9</del> <sup>64.8, 72.6</sup>	57.2, 59.8	91, 114, 116	78.1, 94.2	111, 149	96.3, 119.1, 121.0
	Δ	70	60	26	212	150	325	216
	A	2.3	2.9	8	0.3	1.2	0.2	0.4
62	25 18:38:21.7	34.7, 43.3	<del>32.5, 39.9</del> <sup>32.0, 40.5</sup>	25.6, 28.2	81	62.9	121	86.3, 87.8
	Δ	70	60	26	212	150	325	216
	A	3.0	3.9	9	0.3	1.3	0.2	0.5
63	26 07:17:15						39, 60	
							Δ 160, A 0.3	
64	27 10:00:	29, 43, 8,	43, 8,	<del>52, 6, 51,</del> <sup>52, 6, 51,</sup>				
	A	0.2	0.2					
65	28 <sup>09</sup> 17:17:49	100.5, 139.4	<del>92.7, 131.7</del> <sup>130.4</sup>	91.2, 94,	165, 168,	75.5, 76.9	134, 151,	132, 192
	Δ	317	315	254	122.7	175, 186,	223	
	A	3	3.1	2.2	1.1	26	0.5	0.9
66	28 11:55:43.5				48.6, 51.9			
					Δ 24, A 6			
67	28 20:14:08	68					57, 95	66
	Δ	380					280	300+
	A	0.0					0.6	0.2
68	29 <sup>12</sup> 20:55:10.4						27.7, 39.7	
68a	<i>See opposite</i>						Δ 95, A 0.3	
69	30 <sup>02</sup> 05:29.1				34.0, 36.1			
					Δ 23, 0=29.1, A=2.5			
70	30 10:50:35±						67, 72, 94	110
							Δ 220?	275?
							A 0.2	0.1
71	30					19:39:03		
72	31 <sup>06</sup> 29:15.7	23.5, 26.2,	<del>25.9, 32.1,</del> <sup>26.1, 32.3</sup>	31.5, 42.4	54.8			72, 91
	Δ	38, 3.5	47, 43.5	72, 87				
	A	1.7	1.7	1.5	0.8			0.1
73	31 17:04:50	73.4, 92.7	75, 96	76.0, 97.5		68, 85		
	Δ	160	165	160		110		
	A	0.2	0.2	0.2		0.8		



No.	Epicenter	Q	L	Remarks.
60	37°37' 118°19'	3	3	North of Chalfant, Mono County.
61	32°14' 117 25	3	3	Cajon Pass; San Andreas Rift. Felt at Rialto and San Bernardino
62	" "	3	3	" " " " " "
63	32 02 115 50	2	3	Lower California.
64		0		Possibly not seismic.
65	32 02 115 50	2	4.5	Lower California,
66		1	2.5	Region of Santa Barbara.
67		1	3.5	Eastern San Benito County.
68		1	2	Probably east of Mono Lake.
69		2	2	Near Santa Barbara.
70		1	3	Central California?
71		0		Probably Lower California.
72	33 <sup>53</sup> / <sub>45</sub> 118 <sup>19</sup> / <sub>21</sub>	3	3.5	Felt at Long Beach, Wilmington, Lighthipe, etc. Inglewood fault line <sup>NW</sup> east of Nigger Slough. h=27 km.
73	32 47 118 20	2	3	Southern end of San Clemente Island.

add  
682  
Jan. 29

P	MW	R	SB	LJ	T	IT
16:49:34.2, 36.2, 60.2	34.0, 37.9, 63.7	53, 74.9	14.3, 26.7, 27.9	—	56, 99, 106	55
Δ = 236	250	330	96		320	280
h = 0.2	0.25	0.1	3.5		0.2	0.2

0 = 16:48:58 34°55'N. 120°44'W. Q=2 Off the coast west of Santa Maria.  
L = 3.



Local shocks, February 1932.

No.	Date P.S.T.	Pasadena	Mt. Wilson	Riverside	Santa B.	La Jolla	Tinemaha	Haiwee
1	2 12:51:47.1	96			87,92,119, 121		19.5,25.6, 108.6,111.5	83.9,118.9 120.3
		Δ,A	340,0.2		250,0.5		208,0.8	250,0.5
2	3 05:30:38.1	50.4,58.5	48.3,55.3	44.4,48.0		80.8,81.9	93.7,131.7	777,102
		Δ,A	67,0.6	53,0.8	32,3.0		154,0.7	312,0.15
3	3 13:04:07.3						26,39	11.6,13.1
		Δ,A					105,0.5	19,8.0
4	4 08:02:57.9	79.7,80.0, 95.6,96.4	---	96.3,116.1	61.7, 64.2	128	107,111, 142,148	98,125, 128,130
		Δ,A	149,0.8		220,0.3	13,55	295,0.3	310,0.4
5	4 09:08:30	177	---	116,165			90,167	230,0.3
		Δ,A	480,0.2		430,0.2		370,1.2	
6	4 11:38:56.6						68.8,77.0	25,51+
		Δ,A					66,2.1	180,0.3
7	4 20:14:45	93,130	93,130		84,114		91,131	91,123
		Δ,A	340,0.2	340,0.2		230,0.7	320,0.4	320,0.6
8	4 22:46:54	101,138	102		96,113,120		99,135	99,123
		Δ,A	340,0.3	340,0.2		230,0.8	320,0.5	320,0.7
9	5 08:44:17.9	37.2,51.0,236.0,48.9	25.9,30.4	64,93			80,122	99
		Δ,A	107,1.2	100,3	39,6	255,0.3	345,0.2	260,0.3
10	6 03:33:32.7	40.0,42.6, 45.1	44.5, 47.0	58.0	60.2,76.7, 78.1,82.2			
		Δ,A	32,0.3	41,0.2	82,0.4	150,0.25		
11	6 17:58:24	60,85	62.86	59,80		49,64		
		Δ,A	230,0.05	235,0.1	220,0.1	145,0.8		
12	7 02:08:47.5	54.7,57.4, 59.6,65.3	58,59.7, 66.0	64.9,76.2, 77.1	71.4,86.0, 68.8,89.8,90.9	78.6,80.0	153.3, 155.8	121.3, 122.4
		Δ,A	32,0.3	44,0.4	92,1.8	135,0.8	165,0.3	340,0.1
13	7 13:40:12.1	19.1,23.2	23					
		Δ,A	31,0.15	35,0.15				
14	8 15:55:37				44,48			
		Δ,A			34,1.2			
15	9 04:52:42	85,123	Δt 39	74,106		65,80,83		
		Δ,A	280,0.15	285,0.2	210,0.2	140,1.3		
16	9 05:57:30					64,74,104		78,111
		Δ,A				240,0.2		320,0.1
17	10 18:57:14.7	21.8,23.5, 26.7,32.0	Δt 5	40.9				
		Δ,A	29,0.3	40,0.1	85,0.25			
18	11 12:34:04	93,94,95, 98		76,78,80		27,45,46		
		Δ,A	325,0.15	320,0.2	250,0.1	135,0.8		
19	11 00:32:49.9					64.3,74.3		82.9,103.4
		Δ,A				79,0.3		180,0.2



No.	Epicenter	Q	L	Remarks.
1	36°34' 120°36'	2	3.5	East of Panoche.
2	34 17 117 29	3	2.5	West side of Cajon Pass.
3	36 15 117 48	3	2.5	East of Olancho.
4	34 33 119 44	2	3	Near Santa Barbara, Felt there.(CGS°)
5		1	4	Gulf of California.
6	37 40 118 23	2	3	North of Chalfant, Mono County.
7	35 50 121 28	2	3.5	Coast of Monterey County. Felt in Salmon Creek district (P) and <del>xxx</del> at Piedras Blancas Light (CGS).
8	35 50 121 28	2	3.5	Same as preceding.
9	34 03 117 02	3	3	San Andreas Fault near Mentone. Felt at Banning(CGS)?
10	33 52 118 15	3	2.5	North of Nigger Slough. (h 24 km.)
11	32 00 118 30	1	3	At sea west of Ensenada, Mex. (?)
12	<sup>3</sup> 34 56 118 23	3	3	Northeast of El Segundo. (h 26 km.)
13	33 54 118 12	2	1.5	Near Clearwater.
14		1	1	Near Santa Barbara
15	32 38 115 48	2	3	West of Calexico.
16		0	3	Probably in the Sierra Nevada
17	33 54 118 17	3	2.5	North of Nigger Slough. Felt at Wilmington (CGS).(h 26)
18	37 31 119 00	2	2.5	Sierra south of Mammoth.
19	32 116	1	3	Lower California.



Local shocks, February 1932.

No.	Date	P.S.T.	Pasadena	Lt. Wilson	Riverside	Sta. Barb.	La Jolla	Tinemaha	Haiwee
20	11 15:11:20	32.2, 42.5, 58.0, 61.0	Δt 15.0	32.4, 40.7	63.6, 71.6, 101.8	47.7, 67.5	71.0, 77.3	56.4, 86.2	
		Δ, A	125.0, 10.0	113, 11	67.3, 24	262.4, 3.2	176, 6, 33.2	323.5, 1.8	216.7, 4.0
21	11 18:23:27	79, 116	Δt 758	68, 99		52, 72		172	
		Δ, A	290, 0.2	285, 0.3	230, 0.2		156, 1.3		470, 0.1
22	11 18:30:21	69, 71, 73	Δt 39	61.5, 93, 95	129, 154	46, 66		143, 163	
		Δ, A	290, 0.4	290, 0.6	230, 0.3	430, 0.2	156, 3.4		470, 0.15
23	11 20:34:38.4	51.3, 59.5		45.4, 49.5		70		117	
		Δ, A	66, 0.1	70, 0.05	36, 0.3		100, 0.3		250, 0.1
24	14 06:24:44.2						54.4, 61.2		
		Δ, A					55, 0.5		
25	14 09:55:06.8	25.4, 28.1, 38.6, 40.2	Δt 14.8	56.3, 59.7	32.2, 33.9				
		Δ, A	118, 0.15	118, 0.6	186, 0.05	87, 0.4			
26	14 11:23:20						93.4		
		Δ, A					300±, 0.2		
27	15 01:10:02	16.9, 26.9	?	41, 87, 43.8					
		Δ, A	80, 0.1		130±, 0.05				
28	15 05:59	28.4, 31.9, 30?, 5.2	Δt 3.5	51.8					
		Δ, A		90 to 100, 1.7					
29	15 19:15						52, 113	133	
		Δ, A					450±, 0.2	500±, 0.1	
30	16 04:21:49.5	72.6, 74.0, 91.4	Δt 15.0	---				119	
		Δ, A	136, 0.15	125, 0.1				230, 0.05	
31	16 05:49						70 or 78		
		Δ, A					?, 0.1		
32	16 22:46:04.0	33.1, 52.6	Δt 20.5		08.1, 11.1				
		Δ, A	151, 0.05	160, 0.2		18, 2.2			
33	18 11:05:						90.8, 121, 125		
		Δ, A					250±, 0.3		
34	18 16:46:14.7	37.4, 54.4		26.3, 34.1					
		Δ, A	125, 0.05		63, 0.2				
35	18 21:39:25	46.4, 62.0	?		30, 33, 36				
		Δ, A	150, 0.05	150±, 0.05		20, 1.4			
36	18 21:53:16	39.7, 58.1	?	34.37, 39.3					
		Δ, A	145±, 0.05	, 0.05	75, 0.3				
37	18 22:39:43	65.3, 80.0	Δt 17	48, 52, 56					
		Δ, A	150, 0.05	, 0.05		20, 1.7±			
36	19 11:45:29.5				33.9, 36.8, 39.3				
		Δ, A			15, 1.8				



No.	Epicenter	Q	L	Remarks
20	34°25' 116°51'	3	4	Felt at points in and near the San Bernardino Mts. (CCS)
21	32 30 115 40	2	3.5	Southwest of Calexico.
22	32 30 115 40	2	4	" " "
23	33 47 117 33	3	2	Temescal Canyon, Elsinore fault zone.
24		1	2	North of Tinemaha.
25	34 58 119 00	2	2.5	Wheeler Ridge, north of Tejon Pass.
26		0	3	Central California?
27		1	2	San Pedro Channel?
28		1	2	Santa Monica Bay district.
29		1	3.5	Northwestern California?
30	34 22 116 47	2	2.5	East of Big Bear Valley
31		0		May be very distant
32	34 33 119 47	2	2	Near Santa Barbara.
33		1	3	Central California?
34	34 23 116 52	2	2	North of Bear Valley.
35	34 34 119 50	2	2	Northwest of Santa Barbara.
36	34 25 116 45	2	2.5	Northeast of Bear Valley.
37	34 34 119 50	2	2	Northwest of Santa Barbara.
38		1	1.5	Near Santa Barbara.



Local shocks, February 1932

No.	Date	P <sup>o</sup> S <sup>o</sup> T <sup>o</sup>	Pasadena	Mt. Wilson	Riverside	Sta. Barb.	La Jolla	Tinemaha	Haiwee
39	19 22:15:49	△,A	87.1,114.1	?	129,139	68,81		105,111,144.8	100,144
			245,0.4	,0.4	325,0.1	105,1.3		310,0.1	280,0.1
40	19 22:50:12	△,A						44.7,49.2/55,62,104	
								78.4	
								212,0.2	300,3.2
41	20 17:04	△,A	03.8,6.6	03,05					
			13,0.3	13,0.5					
42	20 20:41:15	△,A	60	?		54,57,77,92		50,83,86,89	56,88
			340,0.3	0.1		230,0.4		240,0.5	235,0.4
43	21 01:26:49.6	△,A	57.9,63.1	56,60 (Δt 4.1)	61.8				
			44,0.2	36,0.4	97,0.4				
44	21 04:20:28	△,A	79,117	?	96,99		114,117,133		
			285,0.3	,0.1	230,0.1		160, 0.7		
45	21 06:03:23	△,A	75.5,114.5, 119.0	?	67,96		51,71		
			285,0.3	,0.1	230,0.1		160,1.1		
46	21 20:56	△,A						76,136	79,136
								450±,0.3	450±,0.15
47	23 12:24:49.4	△,A						52±,0.53.7	
								10±,1.1	
48	23 16:41	△,A	53.4,56.2	Δt 2.9					
			14,0.1	14,0.4					
49	25 02:44:02	△,A						12,19	
								55,0.05	
50	25 02:44:29.2	△,A						38.6,44.6,45±2	
								50,0.3	
51	225 15:33:28.2	△,A	45.0,55.4!, 56.9	?	32.8,34.0,34.9, 35,6,35.9±38.6				
			90,0.15	80±,0.4	19±,2.0				
52	25 18:26:38.8	△,A	85.6,88.3?, 118.3!	Δt 30.3	74.4,77.9,100.0	64.4,81.6, 84.3,86.4	141, 199	122,170	
			298,0.3	295,0.4	218,0.55	156,1.7	560,0.1	450,0.1	
53	25 19:43:19.8	△,A	65.7,105.3	Δt 32	55.8,57.7, 79.9	44.2,45.0, 55.0,63.3	119	160,208	
			295,0.2	295,0.2	220,0.2	158,1.9	560,0.1	450,0.15	
54	26 08:58:47.1	△,A	105.9, 146.6		114, 165.3	95.2, 136.5	157.0	99.8,103.6, 105.7,141.2!	101, 143.2
			400,1.1	1.0	490,0.4	275.7.6	,0.2	372,10.0	375,3.3
55	29 23:10:56	△,A	80.2,101.2	80.2,99.9	71.0,81.5		68.9,80.4		
			150,0.2	138,0.2	84,0.35		72,0.6		



No.	Epicenter	Q	L	Remarks
39	35°08' 120°40'	2	3	Southwest of Pismo, San Luis Obispo County
40		1	3	Northeastern California?
41	35 17 118 09	2		Blast; road construction.
42	36 20 120 35	2	3.5	Southeastern San Benito County.
43	34 33 118 09	3	2.5	San Andreas Fault near Palmdale.
44	32 31 115 37	2	3	Southwest of Calexico.
45	32 31 115 37	2	3	" " " "
46		1	4	Central California?
47	36 15 117 48	2	1	East of Olancho.
48	34 18 118 11	3		Blast: road construction.
49		1	1	North of Tinemaha.
50		1	2	" " "
51		1	2	Riverside district.
52	38 36 115 37	3	3.5	South of Calexico. Felt at Calexico(P), Brawley(P, CGS) and Imperial (CGS).
53	32 36 115 37	3	3.5	South of Calexico. Felt at Calexico(P) and Imperial (CGS).
54	35 51 122 08	2	5	Off the coast west of Cape San Martin. Felt in Santa Cruz and Monterey counties.
55	33 26 116 53	3	2.5	Agua Caliente Fault near Aguanga.

In addition, the following disturbances, probably blasts, were registered at Tinemaha only:

Feb. 23, 12:24 ; Feb. 27, 12:04; Feb. 29, 12:08.



Local shocks, March 1932.

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
1	1	21:12:29				32.8, 35.0, 37.0			
						Δ 12, A 0.6			
2	1	21:13:17				22.9, 25.2			
						Δ 12, A 0.8			
3	1	21:16:20				25.6, 28.5.			
						Δ 12, A 1.0			
4	1	19:59:03.0	50.5	52.3, 93.0		36, 43.2, 65.8	42.2, 43.3, 43.9, 51.2, 71.6, 73.2, 74.7, 75.8,		
		Δ, A	330, 0.05	345, 0.1		220, 0.6	266, 0.7	272, 0.5	
5	2	17:19	50.0, 52.5	52.2, 55.0					
		Δ, A	13, 0.2	13, 0.5					
6	5	18:38:27.6	33.7, 38.0, 42.2	34.6, 39.3, 43.4	57.6, 60.2!	61.5, 53.3, 65.6			
		Δ, A	30, 0.6	34, 0.4	106, 0.1	122, 0.1			
7	5	17:02:32				93	67, 73, 95	71, 79, 95	
		Δ, A				220	228	230	
8	6	08:36	57.6, 60.3	57.2, 58.7, 59.7					
		Δ, A	14, 0.3	13, 0.6					
9	6	13:00:17.1					28.9, 36.8, 50.5 37.3		
		Δ, A					64, 0.15	108, 0.2	
10	6	17:35:				65?, 25.5, 26.7			
						A 0.5			
11	6	22:34:	59	50	31, 7, 32.7	26.0			
		A	0.05	0.1	0.4	0.7			
12	7	01:21	83	76	62.5	<del>XXXX</del>	28		
		A	0.05	0.05	0.1	0.3			
13	7	03:31:00	44.5	64, 82.6		56, 69	33.8, 58.4, 58.8, 59.3	35.3, 39.6, 61.7	
		Δ, A	310, 0.05	315, 0.05		235, 0.1	225, 0.6	235, 0.5	
14	7	04:34:27.1	33.7, 36.5, 38.3, 43.7	39.3, 41.4, 43.1, 44.0	58.8, 59.6				
		Δ, A	28, 0.3	33, 0.1	102, 0.1				
15	7	21:18				56.5, A 0.7			
16	8	14:03					39.2, 64.3	63, 84	
		, A					, 0.2	, 0.05	
17	8	14:19:09.0					44.0, 71.5	56, 87	
		Δ, A					247, 0.4	350, 0.2	
18	8	14:22:					79.5, 105.5	124, 127	
		, A					, 0.2	, 0.1	
19	8	14:24:20					54.8, 83.4	69, 100	
		Δ, A					247, 0.5	350, 0.3	
20	8	14:29				397, 46, 53, 61.5?, 66.8	44, 68, 70.8, 73.5	47, 53, 88	
		, A				, 0.2	, 0.2	, 0.2	



No.	Epicenter	Q	L	
1		2	1	Near Santa Barbara.
2		2	1	" " "
3		2	1	" " "
4	36°07' 121°00'	2	3	Near San Lucas, Monterey County.
5	34 17 118 10			Blast: road construction.
6	34 20 118 24	3	2	North of San Fernando. (h 15 km.)
7	36 15 120 30	2	3	Northwest of Coalinga.
8	34 17 118 11			Blast: road construction.
9	37 03 117 33	2	2	Near the State line east of Tinemaha.
10	32? 116?	1	3	Probably south of Imperial Valley
11	32 ? 116 ?	1	3	South of Imperial Valley.
12		1	3.5	Gulf of California?
13	36 22. 120 30	2	3	Northwest of Coalinga.
14	34 20 118 24	3	2	North of San Fernando. (h 23 km.)
15		0		To the south.
16		1	3	Probably Sierra Nevada.
17		1	3	Central Sierra Nevada.
18		1	3	Probably Sierra Nevada.
19		1	3.5	Central Sierra Nevada.
20		1	3	Coast Ranges about 36° N.



Local shocks, March 1932



No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
21	8	15:56	<del>14.9, 35.3</del>					36.9, 41.8, 63, 82.0 66.8	
			,A						
22	8	19:34						,0.4 ,0.2 64.6, 99 72, 100	
			,A						
23	8	21:42:36.5	175	173				,0.3 ,0.15 71.5, 75.1, 76.1, 86, 116, 100.1, 101.1, 104.4 117	
			$\Delta, A$	520, 0.1	510, 0.05				
24	8	23:02:26.9	24.9, 35.3	31.9, 34.4, 32.2, 32.4, 35.8, 35.2				247, 0.9	350, 0.4
			$\Delta, A$	24, 0.3	17.5, 0.3				
25	9	09:06	08.3, 39.6	07.7, 37.6					
			$\Delta, A$	,0.15	,0.15				
26	9	10:21	10.8, 13.6	10.8, 13.1					
			$\Delta, A$	13, 0.3	13, 0.7				
27	10	13:32:33.8						57.9, 76.9, 78.7, 77, 108, 85.6, 87.8 115, 118 146, 0.7 290, 0.25	
			$\Delta, A$						
28	10	15:24	38.3, 40.6	38.1, 40.5					
			$\Delta, A$	13, 0.2	13, 0.4				
29	11	08:58	37.5	37.4, 42.5					
			,A	,0.3	,0.3				
30	11	11:15: <del>06.6</del>	06.6	13.0					
			,A	,0.1	,0.3				
31	11	15:25:18	82, 144	86, 144	75, 131		63, 103	240	202
			$\Delta, A$	500, 0.5	500, 0.2	500, 0.2	320, 1.3	850, 0.2	750, 0.2
32	11	22:14	44.2	44.3, 46.4					
			$\Delta, A$	13, 0.05	13, 0.4				
33	11	23:29					68, 78		
			$\Delta, A$				80, 0.8		
34	11	23:35					56		
							A 0.7		
35	12	12:19	43.5, 45.8	48.9					
			,A	,0.5	,0.1				
36	12	21:51:41.8	81.5, 112.0	81.0, 89.3, 72.2, 112.0	94.7		58.8, 70.6, 72.0	<del>112.0</del> <del>94.7</del>	
			$\Delta, A$	265, 0.5	265, 0.6	196, 0.4	94, 5.5		
37	13	05:37:28.9	43.7, 49.5, 55.0	43.5, 52.3, 32.7, 55.0	35.3				
			$\Delta, A$	81, 0.05	80, 0.2	15, 2.4			
38	13	15:09:23.7	56.8, 59.0, 80.5, 82.4	57.6, 59.5, 72, 76.4, 82.5, 86.8	82, 96.8 ( $\Delta t$ 8.6)	35, 44	75.0, 78.0, 113.1, 113.7	67, 96.7, 98.3	
			$\Delta, A$	217, 0.5	223, 0.5	275, 0.1	66, 5.5	360, 0.6	290, 0.6
39	13	18:35					35, 48 ( $\Delta t$ 13.6)		
			$\Delta, A$				,0.6		
40	14	16:52	07.8, 10.5	08.2, 10.4					
			$\Delta, A$	13, 0.4	13, 0.6				



No.	Epicenter	Q	M	
21		1	3	Sierra Nevada?
22		0	3	Northern or Central California?
23		1	3.5	Central Sierra Nevada.
24	34°08' 117°55'	2	1	Near Azusa.
25		1		Pasadena district. Probably not seismic.
26	34 17 118 11			Blast; road construction.
27		1	3	Bridgeport district, Mono County.
28	34 17 118 11			Blast; road construction.
29				Blast (?)
30		1		Pasadena district. Possibly a blast.
31		1	4	Gulf of California.
32	34 17 118 11			Blast; road construction.
33	34 ? 120 ?	1	3	West of Santa Barbara.
34		1	1	Near Santa Barbara.
35		1		Pasadena district. Probably not seismic.
36	32 25 116 20	2	3.5	Lower California, south of Jacumba.
37	33 48 117 23	2	2	Temescal Canyon, Elsinore fault zone.
38	34 26 120 11	3	3.5	Off Point Concepcion. Felt at Buellton (GS)
39		1	2	Probably off the west coast of Santa Barbara County.
40	34 17 118 11			Blast; road construction.



Local shocks, March 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiweo
41	15	08:15:	24.4, 26.9,	25.0, 27.0					
		Δ, A	13, 0.3	13, 0.2					
42	15	15:29:	07.1, 12.1	07.6, 14.8					
		Δ, A	, 0.2	, 0.15					
43	16	16:57	21.6, 24.3	22.1, 24.4					
		Δ, A	13, 0.3	13, 0.8					
44	16	23:16:	103, 114	111				50, 102.9	66, 119
		Δ, A	750?, 0.1	750?, 0.1				450?, 1.2	450?, 0.6
45	17	12:05:			12, 7, 13, 1, 14.0, 14.6				
		, A			, 1.3				
46	18	16:20						Δt 11.4	
		Δ, A						100, 1.2	
47	19	11:48:	30.4, 33.1	33.3					
		Δ, A	13, 0.3	13, 0.2					
48	20	00:32						Δt 3.4	
		, A						, 1.6	
49	20	14:53:						40.4, 42.0	
		, A						, 8.2	
50	21	02:45:	66.8, 71.9, 77.3	68.7, 69.7, 75.1, 77.7	76.5, 87.0, 88.1!	?			
		Δ, A	29, 1.4	41, 1.5	85, 3.9	140, 0.4			
51	21	15:11:57	65.9, 72.5 71.2	67.9, 74.8	92.2				
		Δ, A	49, 0.5	60, 0.5	113, 0.1				
52	21	16:35:	42.6, 45.1	42.4, 45.0					
		Δ, A	13, 0.2	13, 0.4					
53	21	17:50:	32.8, 35.3	35.8					
		Δ, A	13, 0.2	13, 0.2					
54	22	16:20:14.1	44.6, 48.7, 75.5, 79.9	42, 47, 72	41, 8, 44, 5, 45.3, 67.8, 72.7	62, 102	60, 63.3, 99.9	45, 2, 46.3, 70.7, 81.2	34.5, 51.0
		Δ, A	196, 6.0	180, 4.5	174, 5.0	285, 2.0	298, 4.7	200, 6.9	112, 4.7
55	24	00:17:20	53.0, 82.5	81.5	63.0				
		Δ, A	210, 0.1	205, 0.2	140, 0.2		110, 0.6		
56	24	07:11:15x						45.1, 46.6	
		, A						, 12	
57	24	13:15:	46.9, 49.3	46.8, 49.1					
		Δ, A	13, 0.2	13, 0.2					
58	24	22:57:31.9	42.9, 50.3	44.8, 53.5			61.7, 65.2!		
		Δ, A	60,	70, 0.6			88, 0.6		
59	25	04:24:37.7	42.4, 44.2, 45.7?	43.7, 47.6					
		Δ, A	20,	26, 0.6					
60	25	08:26:11.6					14, 7, 16.8, 20.2		
		, A					13, 2.7		



No.	Epicenter	Q	M	
41	34°17' 118°11'			Blast; road construction.
42				Blast (?)
43	34 17 118 11			Blast; road construction.
44		D	4.5	Probably Northern California.
45		B	0.5	Near Riverside. Possibly a blast.
46		D	1	Probably west coast of Santa Barbara County.
47	34 17 118 11			Blast; road construction.
48		D	1	Near Santa Barbara.
49		B	2	Near Tinemaha. Blast?
50	<sup>23</sup> <del>34</del> 54 118 17	B	3	North of Nigger Slough. (h 24 km.) Felt in surrounding region (CGS)
51	33 48 118 35	C	2.5	Santa Monica Bay.
52	34 17 118 11			Blast; road construction.
53	34 17 118 11			" " "
54	35 36 116 58	B	4	Garlock Fault southeast of Searles Lake. Felt at Ludlow (CGS)
55	33 13 116 09	B	2.5	San Jacinto Fault near the Superstition Mts.
56		B	2	Near Tinemaha. Blast?
57	34 17 118 11			Blast; road construction.
58	34 16 118 47	B	2.5	Near Simi, Ventura County. Felt there. CGS.
59		D	1.5	Near Los Angeles.
60		C	1.5	Near Santa Barbara.



Local shocks, March 1932



No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
61	25	10:35:	43.4, 43.9, 48.0	41.2, 41.6, 44.8, 46.3					
		Δ, A	0.15	0.4					
62	25	13:03:	21.7, 24.3	22.3, 24.7					
		Δ, A	13, 0.15	14, 0.4					
63	25	15:26	10.0, 12.5	10.4, 12.7					
		Δ, A	13, 0.3	13, 0.4					
64	25	20:42:47	81, 115	86.7, 111.7	72, 91.4		67, 81		
		Δ, A	235, 0.05	230, 0.2	140, 0.1		110, 0.6		
65	25	22:57:44.0	85.3, 114.3, 116.4	85.4, 112.5, 116.4	72.3, 77.3, 93.2, 93.8		08, 13, 17, 18		
		Δ, A	230, 0.3	230, 0.3	176, 0.4		116, 1.2		
66	26	16:39:						34.5, 36.0	
		, A						, 10	
67	27	01:00:17	39.8, 41.4, 58.0, 60.0	57.0, 59.8	38, 2, 38, 6				
		Δ, A	142, 0.05	140, 0.05	68, 0.7				
68	27	17:42:	02.9, 6.5, 7.6	6.0, 8.0					
		Δ, A	, 0.2	, 0.2					
69	28	10:47:34.8		45.0, 50.8, 51.8	39.9, 42.3				
		Δ, A		53, 0.05	, 1.1				
70	28	19:03:						53.0, 54.6, 56.4, 12, 0.3	
		Δ, A							
71	28	19:16:03.3	23.9, 38.5, 24.4, 39.0	23.2, 24.1, 39.6	13.5, 20.2				
		Δ, A	115, 0.3	114, 0.4	55, 1.1				
72	29	14:29:32					53, 71.3		
		Δ, A					120, 0.3		
73	29	17:25:46.9		91.6, 96, 109.7, 111.6	67.5, 99.2		58, 66 (Δt 8.4)		
		Δ, A		230, 0.05	197, 0.2		68, 2.2		
74	29	18:30:					17		
		Δ, A					, 0.6		
75	29	21:45:00					<del>12, 4, 11, 77</del>	42.4, 44, 77	79, 83
		Δ, A						298, 0.2	300, 0.2
76	30	14:13:	48.8, 53.5	48.4, 53.6					
		Δ, A	, 0.3	, 0.1					
77	30	21:00:19.6	64.4, 86.7	58, 71, 80		72, 89		37.6, 42.2, 21, 49.6	Δt 1.5, 3.1
		Δ, A	240, 0.2	230, 0.2		250, 0.1		97, 1.1	12, 30
78	30	21:04:58						50	Δt 1.5, 3.1
		Δ, A						12, 0.4	
79	30	21:19:25					57	27	Δt 1.6, 3.3
		Δ, A						97, 0.05	12, 1.5
80	30	21:33:31						35	
		Δ, A						12, 0.1	



No.	Epicenter	Q	M	
61				
62	34°17' 118°12'			Blast? <i>San Gabriel?</i> Blast; road construction.
63	34 17 118 11			Blast; road construction.
64	33 12 116 05	2	2.5	San Jacinto Fault, San Jacinto Mts.
65	33 02 115 58	2	3	San Jacinto fault zone west of Brawley. Felt there (P
66				Near Tinemaha. Probably a blast.
67	33 38 116 45	2	2.5	San Jacinto Fault.
68				Blast (?)
69	34 ? 117 ?	1	1.5	West of Riverside.
70	36 13 117 55	2	1	North of Haiwee.
71	34 21 117 00	2	3	North of Bear Valley.
72	33 ? 115 ?	1	2.5	Imperial Valley district.
73	32 11 117 20	2	3	Off the coast west of Ensenada, Mex.
74		n0	3?	To the south.
75		1	3	Central California?
76				Blast (?)
77	36 13 117 55	2	3	North of Haiwee.
78	36 13 117 55	2	1	" " "
79	36 13 117 55	2	1.5	" " "
80	36 13 117 55	2	0.5	" " "







No.	Epicenter	Q	M	
81	36°13' 117°55'	2	1	North of Haiwee.
82	32 7 116 7	1	3	Southwest of Imperial Valley.
83	36 13 117 55	2	1.5	North of Haiwee.
84	36 13 117 55	2	1	" " "
85	36 13 117 55	2	0.5	" " "
86	36 13 117 55	2	1	" " "
87	34 05 116 20	1	2.5	Northeast of the San Bernardino Mts.
88	34 17 118 11			Blast; road construction.
89	36 13 117 55	2	1.5	North of Haiwee.
90	34 09 117 23	2	2	North of Rialto.
91	36 13 117 55	2	1.5	North of Haiwee.
92	36 13 117 55	2	2.5	" " "
93				Blast (?)
94	H	2	1.5	Near Haiwee.
95	36 13 117 55	2	1	North of Haiwee.
96	36 13 117 55	2	1.5	" " "
97	36 13 117 55	2	0.5	" " "
98	34 11 116 19	2	2.5	Northeast of the San Bernardino Mts.

Blasts recorded near Tineaha. (See also Nos. 49 and 56 above).

March 1	14:09, 16:35	March 14	11:30
2	12:14, 16:35	15	09:54
7	12:04 (two)	16	10:53
8	12:03	17	09:46
9	12:05 (two), 16:35	18	09:05
10	12:03, 12:09	19	11:03 and others
11	12:11	20	14:23
12	12:04	27	14:23

Blasts at the Eagle Rock, recorded at Pasadena: March 10, 14:47, 15:56, 17:17.



Local shocks, April 1932.



No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	Sta. Barbara	La Jolla	Tihemaha	Haiwee
1	1	01:56:09							11,13 Δt 1.8, 31 12,0.3
2	1	18:21:44	81,116.6	116.5	75.7,100.1		73.3		
			250,0.4	250,0.3	200,0.3		90,0.9		
3	2	08:04:	03.4,06.0	13,06.0					
			13,0.3	13,0.2					
4	2	08:07:					227,39		
							Δ140?, A 0.4		
5	2	18:26:55	102.3,138.5, 140	116.0, 139.9,142.1	93.0,119.8		79,85.4, 97.4		
			320,0.1	320,0.05	245,0.05		145,01.7		
6	3	17:46	42.7,45.4	45.1					
			13,0.1	13,0.1					
7	4	13:58:						36,51	31,34
								,0.2	,0.3
8	4	16:27:	42.4,45.9	41.9,45.2					
			14,0.4	13,0.4					
9	5	23:24:	16.5	16.7,18.9					
			13,0.2	13,0.2					
10.	6	01:02:33.9	40.0,41, 44.4,45.6,48	41.2,42.3, 44.4,46.4	53.1,63.8				
			24,1.4	31,1.6	97,0.3				
11	6	06:57:45.1	75.3,76.3, 99.3	75.7,97.9, 98.6	65.5,66.2, 79.7		59.0,60.2, 69.4,69.7		
			194,0.4	170,0.3	112,1.2		83,3,5		
12	6	06:58:22.9		77.6	103,3,117.5		107.3		
				170,0.05	112,0.3		83,1.3		
13	6	14:42:00	38.9,65.2	40.3,41.5, 67.1	19,20,31 Δt 0.9,12.0		96		57,82
			250,0.2	260,0.2	100,2.0		370,0.2		315,0.2
14	6	23:03:	57.2,59.7	57.8,59.9					
			13,0.05	13,0.04					
15	7	16:26:	59.9,62.6	60.8,62.5					
			,0.3	,0.15					
16	7	23:00	07.8,10.6	07.4,10.1					
			13,0.2	13,0.5					
17	8	12:50:42 Times 12:51	29.5,67.6, 68.1	37.1,68.6, 74.6	21.6,24.5, 51.5		05.6,25.5, 26.1		
			328,0.5	325,0.2	260,0.3		182,2.9		
18	8	12:53	55,92	93.1	47.8,75.2		33,3,50.5, 51.3		
			325,0.4	325,0.2	260,0.2		180,0.2		
19	8	14:10:16	<del>57,116</del>				69,116		115,143
							375,0.3		,0.2
20	8	20:48:03					56,102		877,128
							375,0.3		,0.2



No.	Epicenter	Q	M	
1	36°13' 117°55'	<del>C</del>	1	North of Haiwee.
2	32 22 116 30	D	3	Lower California, south of Jacumba.
3	34 17 118 111			Blast; road construction.
4		E	3	To the south (Recorded at La Jolla only).
5	32 17 115 55	C	3	Lower California.
6	34 17 118 11			Blast; road construction.
7		E	3.5	Arizona?
8	34 17 118 11			Blast; road construction.
9	34 17 118 11			" " "
10	34 20 118 24	B	2.5	North of San Fernando (h 24 km.)
11	33 14 116 44	B	3	Near Warner's.
12	33 14 116 44	B	2.5	Near Warner's.
13	34 35 120 45	C	3	Off Point Arguello.
14	34 17 118 11			Blast; road construction.
15				Blast (?)
16	34 17 118 11			Blast; road construction.
17	32 11 115 30	C	3.5	South of Imperial Valley.
18	32 11 115 30	C	3.5	South of Imperial Valley.
19		E	4	Distant 375 km. from Tinemaha. Central California?
20		E	3.5	"



Local shocks, April 1932.

no.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
21	8	23:32:22							
		$\Delta, A$						75,120,122	95,178
22	8	23:44:53						375,0.7	425,03
23	9	02:59:24						105,151	122,18
		$\Delta, A$						375,0.2	,0.1
								77,123	
24	9	05:13:35						375,0.1	
		$\Delta, A$						88,134	
								375,0.2	
25	9	09:12:	123,15.1	12.8,15.2					
		$\Delta, A$	13,0.2	13,0.8					
26	9	09:55:11.1	38.6,53.9, 56.2	37.4,50.8	29.8,33.3, 43.6,46.3	?		92,04	43,59.2
		$\Delta, A$	158,0.5	145,0.4	105,0.3	2807,0.2		290,0.2	180,0.4
27	10	13:58:	41.3,44.0	41.6,43.9					
		$\Delta, A$	13,0.2	13,0.3					
28	10	16:59:	02.7,05.3	03.2,05.7					
		$\Delta, A$	13,0.2	13,0.05					
29	11	22:27:31.6						487,67	36.6,41,0!
		$\Delta, A$						115,0.1	42.8,44.3!
30	11	16:59:45.0		59.3,68.6	48.9,51.5				,0.9
		$\Delta, A$		75,0.05	15? D22 21,2.5				
31	11	22:34:23.7			27.7,30.5				
		$\Delta, A$			D 22, A 0.3				
32	11	22:41:02.3			06.3,09.2				
					D 22, A 0.6				
33	12	02:08:47.3		65.6,66.1, 78.2	54.3,54.7, 59.2				
		$\Delta, A$		107,0.05	$\Delta$ 35(?) D38, A 0.5				
34	12	03:18:58.5	61.3,62.6, 63.1!	62.0,64.1!	69.3,69.8, 65.0,65.8	77.1,78.3			
		$\Delta, A$	14,1.5	15,7.1	62,2.5				
36	12	21:45:54						$\Delta$ 9.5 68,78	82,104
		$\Delta, A$						80,1.0	125,0.05
35	12	14:23:13.2	40.4,62.0	44.0,55.7, 65.6!	45,69	?	57.3,67.0, 75.4		
		$\Delta, A$	170,0.2	186,0.1	200,0.1	170?	,0.3	150,0.1	
38	13	16:44:02	21.0,38.0	19.9,32.6	14.4731.9?				
		$\Delta, A$	100,0.5	100,0.1					
38	13	23:52:05.4	19.2,19.6, 29.5,30.2	18.0,27.3	08.4,10.4		41.9,43.7		73.2
		$\Delta, A$	77,0.7	70,1.0	,9.0		118,0.8		233,0.1
39	14	16:09	13,1,15.5?	12.2,14.2					
		,A	,0.1	,0.2					
40	15	11:30:	09.8,11.4, 12.8	09.9,12.1					
		,A	,0.2	,0.1					
41	15	15:40:03	25.9! 43.8!	39.7, 40.7	23.4,37.7, 40.7	20.6! 36.6!	34.4!	75,79	237,34.3, 443!,48.4
		,A	130,1.0	112,1.4	105,0.8			,0.1	1307,0.6



No.	Epicentre	Q	M	
21		E	4	Central California? Distant 375 km. from Tinemaha.
22		E	3.5	" " "
23		E	3	" " "
24		E	3	" " "
25	34 17 118 11			Blast; road construction.
26	34 49 116 42	C	3	Near Newberry, Mojave Desert.
27	34 17 118 11			Blast; road construction.
28	34 17 118 11			" " "
29		D	1.5	Near Haiwee.
30	34 03 117 15	C	1.5	Northeast of Riverside.
31		D	0.5	Near Riverside. Cajon Pass?
<del>32</del>	<del>34 04 117 00</del>	<del>C</del>	<del>2</del>	<del>San Andreas fault zone north of Banning.</del>
32		D	0.5	Near Riverside. Cajon Pass?
33	34 04 117 00	C	2	San Andreas fault zone north of Banning.
34	34 05 118 04	B	2.5	Near El Monte.
35	33 ? 119 ?	D	2.5	West of San Clemente Island
36	37 10 117 20	D	2.5	Northeastern Inyo County, Southern Esmeralda Co., Nevada
37	35 ? 117 ?	D	2	Mojave Desert.
38	34 02 117 22	B	2.5	Very near Riverside.
39	34 17 118 11			Blast; road construction.
40				Blast?
41	35 05 117 10	B	3	near Barstow.



Local shocks, April 1932.

Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	Sta. Barbara	La Jolla	Tinemaha	Haiwee
42	16 01:02:41	80.1, 118.2	78.3, 110.2	107.6, 91.4	68.9, 90.7	Ex		
	Δ, A	260, 0.2	250, 0.2	180, 0.5				
43	16 10:48:10	67.5, 68.2, 113.2, 117.4	80.0, 130	75, 93, 175	56, 88, 91		49, 52, 80	57, 61.9, 93.6, 100.4
	Δ, A	415, 0.6	410, 0.3	, 0.3	270, 1.7		265, 8	315, 2.8
44	16 10:55:04						44, 74	58, 85
	Δ, A						260, 0.5	325, 0.1
45	16 15:49						29, 35, 38	
	Δ, A						<del>29, 35, 38</del>	
46	16 18:38:04.2	25.5, 41.9	22.4, 35.0	18.9, 34.8			17	43.8
	Δ, A	123, 0.3	100, 0.3	81, 0.1			275, 0.1	160, 0.1
47	17 06:45:							
	Δ, A				35, 48 (Δt 12.7) 100, 3.1			
48	17 09:51:50.1	73.0, 73.3, 88.3, 90.7	72, 84	68.6, 71.8, 22.2			124	75, 92.0
	Δ, A	138, 0.3	125, 0.4	103, 0.1			255, 0.1	165, 0.1
49	18 00:55:	11.6, 32.8	27.5	14.1				
	Δ, A	, 0.05	, 0.1	, 0.3				
50	18 04:35:56.0	92.0, 125.8	80.1, 117.9	88.0, 117			82, 110	72
	Δ, A	240, 0.05	220, 0.05	210, 0.05	<del>210, 0.05</del>		175, 0.1	90, 0.1
51	18 05:11:27.4	42.3, 57.3	49	31.3, 33.9				
	Δ, A	81, 0.05	70, 0.1	13, 1.5				
53	18 18:49:	19.6, 22.1	19, 21					
	Δ, A	13, 0.3	13, 0.2					
52	18 18:24:				39			
	Δ, A				100, 0.7			
54	18 21:03:58	77.0, 91.7, 95.3	76, 88, 90					97.0, 100.4, 125.0
	Δ, A	110, 0.1	90, 0.1					
55	19 11:40:04.6	32.0, 34.4, 35, 5, 52.3, 55.0	31.8, 33.1, 50.2, 51.1	36.7, 36.2, 39.7, 60.4	35, 38.3, 57.3, 59.7		32, 39, 50	16.4, 17.1, 24.7, 25.2
	Δ, A	171, 1.5	170, 1.4	207, 1.1	175, 1.7		155, 2.5	68, 3.4
56	19 14:01:	59						
57	19 15:36:43.7	67.6, 68.1, 82.1, 84.1	66.9, 80.1, 80.4	56.2, 57.2, 61.9, 62.8		71, 86, 89		89, 121, 125
	Δ, A	148, 0.5	133, 0.7	68, 4.1		150, 0.9		250, 0.1
58	20 19:36:20.0	57.7, 86.2, 87.2, 88.0, 98.5	62.0, 90.0		47, 51, 67, 72		55, 59, 82	56, 82
	Δ, A	253, 0.2	260, 0.2		155, 0.9		230, 0.3	240, 0.3
59	20 19:55:						52, 55 (Δt 2.5)	
	Δ, A						12, 0.8	
60	21 13:56:42.2	48.8, 51.1, 53.4, 55.0, 59.5	54.1, 58.9	56.4, 60.7, 67.4				
	Δ, A	27, 0.4	37, 0.1	78, 0.3				
61	21 16:08:16	67.1, 68.0, 105.7, 100.7, 112.2	75	86, 120	56, 102		51, 76.9, 78.0	53.3, 82.4, 83.1
	Δ, A	350, 0.4	350, 0.2	450, 0.2	275, 0.7		228, 4.7	245, 2.5



No.	Prefix	Prefix	Prefix	Prefix	Q	M	Epicenter
42	32	?	115	?	D	3	Imperial Valley district
43	36	40	121	13	C	4.5	San Benito County.
44	36	?	121	?	D	3	Probably San Benito County.
45					E		Registered only at Tinemaha
46	34	50	117	12	C	2.5	Southwest of Barstow. Perhaps unusually deep.
47	34?		120?		E	3	Probably off Point Arguello.
48	34	55	117	05	B	2.5	Near Barstow.
49					E	2	To the south.
50	35	55	116	55	C	2.5	Death Valley.
51	34	06	117	20	B	1.5	South of San Bernardino.
52					E	2.5	Registered only at Santa Barbara.
53	34	17	118	11			Blast; road construction.
54	35	02	117	45	C	2	Mojave Desert, east of Mojave.
55	35	41	118	28	B	3.5	Near Isabella, Kern Co. Felt on the Kern River. (CGS)
56							Probably not seismic.
57	34	10	116	40	B	3	San Bernardino Mountains.
58	35	?	120	?	D	3	Northern San Luis Obispo County. Felt at Atascadero. (CGS)
59					C	1	Near Tinemaha.
60	33	54	118	12	C	2	Near Compton (h 24 km.)
61	36	47	120	45	C	4	Southwest of Oro Loma, Fresno Co.



62 compared 50



Local shocks, April 1932

Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tineraha	Haiwee
63	21 16:24:	43.4, 44.6	44.0, 45.7					
	Δ, A	13, 0.1	13, 0.1					
62	21 12:57:				19			
	Δ, A					, 0.5		
64	21 17:57:				25			
	, A					, 0.8		
65	21 18:36:				44			
	, A					, 0.9		
66	21 18:54:				30			
	, A					, 1.1		
67	21 18:59:22.1	39.0	37.0, 37.9	26.9, 30.2				
	Δ, A	52, 0	48, 0.1	24, 2.1				
68	21 22:35:						34, 58.0	56, 59.0
	, A						, 0.2	, 0.1
69	21 23:49:55	124.9, 180.9	134, 186.1	115, 165		98, 145	185, 278	162
	Δ, A	480, 0.4	485, 0.2	430, 0.3		310, 1.9	950, 0.1	, 0.2
70	23 05:38:28.0	39.7, 45.7, 47.7, 56.2	38.1, 45.1	31.5, 33.9	46.9, 47.3, 51.4	51.6, 52.0, 68.4, 69.2, 70.4		55, 80.8, 93
	Δ, A	63, 0.6	54, 1.7	16, 7+	205, 0.1	140, 0.6		224, 0.1
71	23 09:41:	48.0, 51.3	48.5, 50.8					
	Δ, A	13, 0.1	13, 0.2					
72	23 10:45:	25.0, 25.9, 29.4, 31.4	22.8, 24.0, 26.9	27.7, 34.3				
	Δ, A	33.5, 0.1	22, 0.2	49, 0.1				
73	23 17:23:00.9						35.9, 36.6, 40.4, 41.4	05.0, 07.9
	Δ, A						115, 0.1	17, 1.5
74	24 06:32:14	40.2, 57.7, 58.7	40.6, 52.1, 54.4, 56.0	36.2, 38.6, 48.7, 51.4, 55.9				58.1, 60.3, 63
	Δ, A	143, 0.2	140, 0.1	122, 0.1				148, 0.15
75	24 22:29:40.0	50.1, 57.4	48.3, 54.1					
	Δ, A	55, 0.2	44, 0.5					
76	25 04:54:36.8	52.6, 62, 63.8	53.1, 55.1, 64.5, 66.5			58, 60.8, 71.0, 71.8		
	Δ, A	87, 0.5	90, 0.9			111, 0.5		
77	25 05:32:	34.7	34.7, 36.9					
	Δ, A	13, 0.05	13, 0.1					
78	25 12:04:50.8	67.9, 68.4, 68.8, 80.6, 81.0	66.8, 78.1	58.0, 58.4, 60.9, 63.1		93.9, 94.8, 96.3		
	Δ, A	97, 0.4	88, 0.3	37, 0.7		150, 0.5		
79	25 21:55:	39.8, 43.9	42.0					
	, A	, 0.05	, 0.3					
80	26 00:26:06.6						16.9, 23.0, 23.6, 24.1	
	Δ, A						55, 0.3	



No.	Epicenter	Q	M	
62		B		Small shock registered only at Santa Barbara
63	34 17 118 11			Blast; road construction
64		B		Small shock registered only at Santa Barbara.
65		B		Do.
66		B		Do.
67	33 55 117 38	B	1	Near Prado.
68		D	3	Sierra Nevada?
69	31 ? 115 ?	D	4	Gulf of California
70	34 05 117 30	B	3	Near Etiwanda
71	34 17 118 11			Blast; road construction.
72	34 13 117 50			Blast on Galndora Road. (Not verified)
73	36 05 117 49	C	1.5	Southeast of Haiwee
74	35 02 117 02	B	2.5	Near Barstow
75	34 10 117 35	B	2	North of Cucamonga.
76	33 20 118 19	C	2.5	Off Avalon, Catalina Island.
77	34 17 118 11			Blast; road construction.
78	34 15 117 05	C	2.5	East of Arrowhead Lake, San Bernardino Mts.
79	34 ? 118 ?	D	0.5	Mt. Wilson nearest station. Blast??
80		D	2	Tinemaha distant 55 km.



Local shocks, April 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
81	26	06:33:19.9	25.5, 29.5, 30.6, 33.7	31.0, 35.0	Riverside 39.5				
<del>82</del>	<del>26</del>	<del>07:52:41.8</del>	<del>48.3, 52.6, 52.9, 56.8</del>	<del>27.0, 26.0, 26.0, 26.0</del>	<del>26.0, 26.0, 26.0, 26.0</del>	<del>58.0, 0.05</del>			
82	26	07:52:41.8	48.3, 52.6, 52.9, 56.8	27.0, 26.0, 26.0, 26.0	26.0, 26.0, 26.0, 26.0	58.0, 0.05			
		Δ, A	26, 0.5	36, 0.1		63, 0.05			
83	26	09:55:09.6	24.2, 24.8, 35.4	33.6, 36.4	13.2, 15.8				
		Δ, A	84, 0.1	80, 0.1	17, 3				
84	26	15:49:54							55.0, 56.4, 57.8
84a*		Δ, A							12, 0.4
85	27	03:16:19.5	34.3, 44.4, 44.7	41.8	23.5, 25.5, 30.1!				
		Δ, A	80, 0.05	71, 0.05	15, 2.5				
86	27	07:28:22	47.5, 64.5! 65.5, 67.0	51.6, 61.8, 63.5, 65.1!	43.1				57, 70, 72
		Δ, A	160, 0.2	145, 0.2	120, 0.1				165, 0.1
87	27	12:06:56.3	101.7, 104.7	98.6, 100.8	79.8, 94.8, 96.9				105±
		Δ, A	156, 0.1	142, 0.1	140, 0.1				170, 0.05
88	27	15:35:18.3	42.0, 42.4! 43.4, 60.9, 61.4!	40.1, 56.3, 58.9!	38.7! 52.8, 54	60.0, 89.1, 92.1	56.0, 57.1, 143.1, 145.2	59, 66, 93.2, 95.1	Δt 19
		Δ, A	143, 6.5	130, 5.5	109, 4	275, 4.3	240, 3.9	270, 6	170, 5
89	27	22:41:17.0	39.4, 40.2, 57.0, 57.5, 58.4	38.8, 56.3, 56.8	34.7				
		Δ, A	132, 0.3	129, 0.2	98, 0.1				
90	28	06:20:12			14.4, 16.4				
		Δ, A			1.1				
91	29	03:03:19.5	44.9, 61.5	45.2, 58.3, 60.6	39.5, 53.9, 56.4			36	?
		Δ, A	155, 0.2	142, 0.05	112, 0.1			265, 0.05	165, 0.05
92	29	07:39:							?
		Δ, A							0.4
93	29	08:52:33	81.3, 83.2, 117.3, 120.0	82.2, 118, 120.0	66.8, 70.8, 101.2, 102.1!	114, 161.1	60.3, 79.6! 183.1, 85.6!	131.0, 34.0, 160	Δt 55
		Δ, A	340, 0.8	340, 0.7	235, 1.2	450, 0.8	185, 16	500, 0.3	480, 0.4
94	30	10:08							Δt 1.7, 3.3
		Δ, A							12, 0.6
*84a	27	01:17:	17.8	0	06.6, 08.7, 09.0!				
		, A	0		1.1				



No.	Epicenter	Q	M	
62		B		Small shock registered only at Santa Barbara
63	34 17 118 11			Blast; road construction
64		B		Small shock registered only at Santa Barbara.
65		B		Do.
66		B		Do.
67	33 55 117 38	B	1	Near Prado.
68		D	3	Sierra Nevada?
69	31 ? 115 ?	D	4	Gulf of California
70	34 05 117 30	B	3	Near Etiwanda
71	34 17 118 11			Blast; road construction.
72	34 13 117 50			Blast on Gelndora Road. (Not verified)
73	36 05 117 49	C	1.5	Southeast of Haiwee
74	35 02 117 02	B	2.5	Near Barstow
75	34 10 117 35	B	2	North of Cucamonga.
76	33 20 118 19	C	2.5	Off Avalon, Catalina Island.
77	34 17 118 11			Blast; road construction.
78	34 15 117 05	C	2.5	East of Arrowhead Lake, San Bernardino Mts.
79	34 ? 118 ?	D	0.5	Mt. Wilson nearest station. Blast??
80		D	2	Tinemaha distant 55 km.



Local shocks, April 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinianaha	Haiwee
81	26	06:33:19.9	25.5, 29.5, 30.6, 33.7	31.0, 35.0	<del>Riverside</del> 39.5				
<del>82</del>	<del>26</del>	<del>07:52:41.8</del>	<del>23.0, 24.4</del>	<del>26.0, 26.1</del>	<del>58.0, 58.5</del>				
82	26	07:52:41.8	48.3, 52.6, 52.9, 56.8	49.4, 53.7, 57.9	62.1				
		Δ, A	26, 0.5	36, 0.1	63, 0.05				
83	26	09:55:09.6	24.2, 24.8, 35.4	33.6, 36.4	13.2, 15.8				
		Δ, A	84, 0.1	80, 0.1	17, 3				
84	26	15:49:54						55.0, 56.4, 57.8	
84a*		Δ, A						12, 0.4	
85	27	03:16:19.5	34.3, 44.4, 44.7	41.8	23.5, 25.5, 30.1!				
		Δ, A	80, 0.05	71, 0.05	15, 2.5				
86	27	07:28:22	47.5, 64.5! 65.5, 67.0	51.6, 61.8, 63.5, 65.1!	43.1			57, 70, 72	
		Δ, A	160, 0.2	145, 0.2	120, 0.1			165, 0.1	
87	27	12:06:56.3	101.7, 104.7	98.6, 100.8	79.8, 94.8, 96.9			105±	
		Δ, A	156, 0.1	142, 0.1	140, 0.1			170, 0.05	
88	27	15:35:18.3	42.0, 42.4! 43.4, 60.9, 61.4!	40.1, 56.3, 58.9!	38.7! 52.8, 54	60.0, 89.1, 92.1	56.0, 57.1, 143.1, 145.2	59, 66, 93.2, 95.1	Δt 19
		Δ, A	143, 6.5	130, 5.5	109, 4	275, 4.3	240, 3.9	270, 6	170, 5
89	27	22:41:17.0	39.4, 40.2, 57.0, 57.5, 58.4	38.8, 56.3, 56.8	34.7				
		Δ, A	132, 0.3	129, 0.2	98, 0.1				
90	28	06:20:12			14.4, 16.4				
		Δ, A			, 1.1				
91	29	03:03:19.5	44.9, 61.5	45.2, 58.3, 60.6	39.5, 53.9, 56.4			36	?
		Δ, A	155, 0.2	142, 0.05	112, 0.1			265, 0.05	165, 0.05
92	29	07:39:							?
		Δ, A							, 0.4
93	29	08:52:33	81.3, 83.2, 117.3, 120.0	82.2, 118, 120.0	66.8, 70.8, 101.2, 102.1!	114, 161.1	60.3, 79.6! 183.1, 85.6!	131.0, 144.0, 160	Δt 55
		Δ, A	340, 0.8	340, 0.7	235, 1.2	450, 0.6	185, 16	500, 0.3	480, 0.4
94	30	10:08							Δt 1.7, 3.3
		Δ, A							12, 0.6
*84a	27	01:17:	17.8	0	06.6, 08.7, 09.0!				
		, A	0		, 1.1				



No.	Epicenter	Q	M	
81	33°59' 113°01'	B	1.5	Northeast of Whittier.
82	33 55 118 05	C	1.5	Southwest of Whittier.
83	33 50 117 22	C	2	Gavilan district, Riverside county
84	36 13 117 55	C	1	North of Haiwee.
84a		C	1.5	Riverside district.
85	34 03 117 20	B	1.5	Near Colton.
86	35 05 117 00	C	2.5	North of Barstow.
87	35 05 116 55	C	2.5	Northeast of Barstow.
88	34 56 116 53	B	4	Northeast of Barstow.
89	34 52 117 07	C	2.5	South of Barstow.
90		C	1	Riverside district.
91	34 56 116 53	B	2	Northeast of Barstow.
92		E	17	Recorded only at Haiwee.
93	32 15 115 40	D	4	South of Imperial Valley. Felt at Brawley, El Centro, Calexico (P, CGS).
94	36 13 117 55	C	1.5	North of Haiwee.

Tinemaha blasts:

April 2, 15:09, 15:13; 6, 16:09; 8, 16:42; 10, 16:37; 12, 17:32; 14, 16:46; 16, 16:14; 19, 16:38; 21, 16:49; 25, 12:12; 28, 12:12; 30, 08:46.

April 13, 15-16. Unusually heavy gunfire; several earthquake reports.



Local shocks, May 1932



No.	Date	B.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
1	1	15:06:29							30,30 Δt 1.1 ,4.1
		,A							
2	1	18:29:21	33.6,42.0	34.9,45.4	49.7,51.1				
		Δ,A	66,0.1	83,0.1	95,0.1				
3	1	18:32:27	37.9,47.5, 49.7	40.4,52.8, 54.4!	43.4,55.2, 59.5				110
		Δ,A	62,1.0	76,1.3	93,0.5				,0.1
4	1	18:32:43	55.3,65.8, 66.3	69.4	72.8				
		Δ,A	62,0.6	76,0.6	93,0.5				
5	1	18:36:23	35.0,43.5	36.9,46.6	39.2,50.6				
		Δ,A	65,0.6	76,0.6	89,0.4				
6	2	08:08	28,40						
7	2	21:04:		46.9,70.6				14,42	20.47
		Δ,A		450,0.05				200,0,2	200,0.2
8	2	23:07:11	34.2,50.5	32.0,46.1, 46.9				85	43
		Δ,A	128,0.4	117,0.1				280±,0.1	170,0.1
9	3	03:02				50			
		,A				,1.7			
10	4	01:45:25	92.1,151.1	91,146				71,72.3!	70,106
		Δ,A	510,0.05	500,0.05				108.0,109.0!	315,0.2
								320,0.9	
11	4	01:59:23.0	41.0,53.7	42.7,50.4,51.7					
		Δ,A	100,0.05	93,0.05					
12	4	05:47	12.1,139	11.5,13.7					
		Δ,A	14,0.1	13,0.2					
13	4	18:47				17			
		Δ,A				,0.7			
14	5	02:49	16.4,17.9	17.8,19.8					
		Δ,A	,0.05	,0.1					
15	5	05:08	54.1	55.5,56.0					
		Δ,A	,0.05	,0.05					
16	5	13:14	13.1,15.4, 19.1	13.0,13.4, 15.4					
		Δ,A	13,0.2	13,1.1					
17 <del>16x</del>	5	16:11	56.8	56.8,58.9					
		Δ,A	13,0.1	13,0.4					
18	5	17:02:28.5	48.8,61.2, 62.5	46.5,47.9, 48.8,60.0!	---		62.0,65.0, 65.3		107.7
		Δ,A	108,0.3	88,0.6			110,1.5		255,0.1
19	6	01:48:04.7	32.4,52.6, 53.1,54.2	30.8,32.6, 50.7,52.2	---		29.1,46.8, 49.8		
		Δ,A	175,0.5	160,0.8			155,1.3		
20	6	18:44:03.8	16.9,26.1	18.5,28.1, 29.0	35.4				
			70,0.4	81,0.6	102,0.15				



No.	Epicenter	Q	M	
1		D	1.5	Near Haiwee.
2	33 30 118 20	C	2.	San Pedro Channel
3	" "	C	3	" "
4	" "	C	3	" "
5	" "	C	2.5	" "
6				Probably not seismic.
7	36? 121?	D	3	Probably San Benito County.
8	35 ? 119 ?	D	2.5	South of Bakersfield.
9	34 ? 119 ?	D	1.5	Near Santa Barbara.
10	38 ? 115 ?	D	3.5	Eastern Nevada. Location may be erroneous.
11		E	1.5	Pasadena distant 100 km.
12	34 17 118 11			Blast; road construction.
13		E	?	Recorded only at Santa Barbara
14		E		Probably Pasadena region. May not be seismic.
15		E		Blast?
16	34 17 118 11			Blast; road construction.
17	" " " "			" " "
18	33 55 117 10	C	3	San Jacinto Fault <sup>nw of</sup> near San Jacinto.
19	34 00 116 22	C	3	Northern Little San Bernardino Mountains.
20	33 32 118 19	B	2.5	San Pedro Channel.



Local shocks, May 1932.

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
21	6	20:26:27.0	39.3, 40.3, 49.7!	41.4, 42.0, 51.9!	45.3, 48.6, 58.2, 59.3	52, 68	49, 69, 74.7, 81.3	138	80, 104, 109.5, 115.3
		Δ, A	72, 2.8	80, 3.4	102, 1.8	137, 0.8	130, 0.9	360, 0.2	290, 0.3
22	6	21:16:30.7	35.2, 37.7!						
		, A	, 0.5						
23	7	05:39:43.4!	47.7! 50.2!	49.3, 53.3!					
		50.2! , A	, 0.7	, 0.5					
24	7	17:10:	53.6, 55.7	54.0, 56.4					
		Δ, A	13, 0.4	14, 0.7					
25	10	09:10:29.7	52.6, 57.9, 72.7, 74.2	57.6, 58.6, 77.1	46.9! 57.7, 58.9		55.8, 73.8	141.4	?
		Δ, A	152, 0.5	150, 0.9	93, 2.5		159, 1.5	350±, 0.1	250±, 0.2
26	10	16:20:	06.8, 09.0	06.2, 09					
		Δ, A	13, 0.05	14,					
27	11	10:43:35.6	46.9, 47.7, 54.9	52.0	68, 82.6				
		Δ, A	61, 0.2	51, 0.1	175, 0.05				
28	11	15:26:	37.1, 39.9	37.4, 39.8					
		Δ, A	14, 0.2	14, 0.7					
29	12	05:51:07.8	28.6, 44.5, 45.5	27.2, 44.2	16.8, 17.2, 23.8		44.2		67.6, 79.8, 80.4!
		Δ, A	118, 0.3	102, 0.2	50, 4.0		118, 0.2		260, 0.2
30	12	06:35:23.4						33.7, 41.0	
		Δ, A						55, 0.2	
31	12	11:20	44.4, 55.5	57.8, 58.7					
		Δ, A	85, 0.3	, 0.3					
32	12	15:22:	46.6, 48.8	46.8, 49.3					
		Δ, A	13, 0.2	14, 0.4					
33	14	13:25:59.5 (Times 13:26:	29.4, 30.0, 49.4! 51.6	30.8, 50.0, 51.3	19.3, 21.2, 31.1, 34.5!		22.6, 46.5		58, 83.7
		Δ, A	185, 0.2	175, 0.3	113, 0.8		140, 0.4		310, 0.1
34	14	19:37:49.2	54.6, 58.4	57.9, 62.4					
		Δ, A	, 0.2	, 0.1					
35	15	12:14:						?	?
		, A						, 0.2	, 0.2
36	15	13:21:38.7	56.7, 68.7, 69.2	55.1, 66.1	46.1, 51.3				102
		Δ, A	98, 0.2	89, 0.2	38, 0.4				220, 0.1
37	15	16:13:	31.1, 33.1, 33.4	30.8					
		Δ, A	13, 0.2	13, 0.2					
38	15	16:18:	27.0, 29.4	27.1, 29.5					
		Δ, A	14, 0.3	14, 0.6					
39	15	13:37:08					46, 74		?
		Δ, A					250, 0.2		, 0.2
40	15	21:52:03.1	10.3, 12.7, 15.4	15, 16.1, 22.9					
		Δ, A	28, 0.3	40, 0.2					



12 May 1932

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No.	Epicenter	Q	M	
21	33 40 118 30	C	<del>2.5</del> 3	San Pedro Channel.
22	34 70 118 70	C	1	Southwest of Pasadena.
23	34 80 118 70	C	1	" " "
24	34 17 118 11			Blast; road construction.
25	34 10 116 40	C	3	Eastern San Bernardino Mountains.
26	34 17 118 11			Blast; road construction.
27	34 ? 118 ?	D	2	West of Pasadena.
28	34 17 118 11			Blast; road construction.
29	33 55 116 55	B	2.5	<sup>East</sup> North of Beaumont.
30		D	2	Tinemaha distant 55 km.
31		E	2.5?	Pasadena distant 85 km?
32	34 17 118 11			Blast; road construction.
33	33 45 116 12	B	3	Near Indio.
34		D	1	Pasadena district.
35		E		Recorded only at Tinemaha and Haiwee.
36	34 14 117 06	B	2.5	Green Valley, San Bernardino Mts.
37	34:17 118 11			Blast; road construction.
38	34 17 118 11			" " "
39	36 00 120 30	C	3	Southeastern Monterey County, Felt at Parkfield (press.)
40	33 48 118 14	C	2	Near Compton. Felt 3 miles east of Torrance (CGS).

} Southeast limit of  
Los Angeles City.



Local shocks, May 1932

Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S° Barbara	La. Holla	Tinemaha	Haiwee	
41	16	2:45:44.7	68.3, 85.4	82.3	57.4, 66.2				
		Δ, A	130, 0.2	, 0.2	70, 0.5				
42	17	14:46:	10.3, 12.9	10, 12 Δt 2.2					
		Δ, A	14, 0.1	13, 0.3					
43	18	05:43:	150, 17.3	14.0, 16.2					
		Δ, A	13, 0.1	13, 0.2					
44	18	16:16	46.2, 56.7, 58.7	57.2, 60.2					
		, A	, 0.1	, 0.1					
45	18	20:30:10	34.6, 58.6, 60.0	68					
		Δ, A	150, 0.6	, 0.5					
46	19	02:52:15.7	32.9, 45.4		22.7, 27.7				
		Δ, A	98, 0.0		36, 0.5				
47	19	03:25:	16.5, 18.7, 23.3	21.5, 30.8	40.8, 41.7				
		Δ, A	, 0.2	, 0.5	, 0.3				
48	19	22:18:			Δt 2.5, 5, 5				
		Δ, A			, 0.5				
49	20	11:15:				25			
		, A				, 0.4			
50	20	11:33:				49			
		, A				, 0.3			
51	20	12:22:50	84.5, 110.0! 111.2, 113.2!	83.2, 84.2, 106.4, 107.9	73.8, 84.7!, 90.0	108, 149	89.3, 94, 138.7!	112, 162	95±
		Δ, A	240, 1.0	230, 1.3	150, 1.6	410, 0.5	260, 1.6	440, 0.2	320, 0.2
52	20	12:37:				14			
		, A				, 0.3			
53	20	22:39:03.7	11.1, 16.3, 17.1!	11.1, 17.2, 21.7	11.0, 16.3				
		Δ, A	39, 0.05	39, 0.3	39, 0.9				
54	21	09:38:	17.5, 21.0	17.3, 19.8					
		Δ, A	13, 0.1	13, 0.5					
55	22/	14:36:			40.3				
		Δ, A			, 0.2				
56	21	15:07:	03.7, 13.1						
		Δ, A	, 0.4						
57	21	17:16:58.8	<del>110.0, 119.2</del>				71.0, 79.7	97	
		Δ, A					66, 0.4	124, 0.3	
58	21	18:44:46.0	107.6, 136.6, 150.3	97, 137, 148	102		59.9, 69.8	69.7, 87.3	
		Δ, A	345, 0.3	345, 0.3	355, 0.1		75, 5.5	135, 24	
59	22	00:16:56.1	108.6, 118.5, 161.5	108.2, 178.1	109.9, 161.1	164	183	68.9, 78.0	79.3, 96.8
		Δ, A	370, 0.6	365, 0.6	380, 0.5	390, 1.1	480, 1.1	70, 15	139, 6.0
60	22	01:02:56					68.4, 75.5	94	
		Δ, A					70, 0.3	140, 0.2	



No.	Epicenter	Q	M	
41	34 25 118 55	C	2.5	Northeast border, San Bernardino Mts.
42	34 17 118 11			Blast; road construction.
43	" " " "			" " "
44		D		Pasadena district. Very small, perhaps not seismic.
45		E	3	Sierra Nevada? $\Delta$ Tinemaha 150 km.
46	33 40 117 20	C	2	Elsinore fault at Lake Elsinore,
47	33 50? 118 20?	D	2.5	Inglewood fault zone (h 24 km?)
48	34 30 119 45	C	1	near Santa Barbara.
49		E	3?	Gulf of California?
50		E	3?	Gulf of California?
51	<sup>34</sup> <del>35</del> 30 115 40	C	3.5	Near Amboy, Mojave Desert.
52		E	3?	Gulf of California?
53	33 52 117 50	C	2	Northeast of Fullerton.
54	34 17 118 11			Blast; road construction.
55		E		Small motion, recorded at Riverside only.
56		D	2?	Pasadena district.
57	37 20 117 40	C	2.5	East of Tinemaha.
58	37 20 117 30	C	3.5	Southern Esmeralda County, Nevada.
59	" " " "	C	4	" " " "
60	" " " "	C	2.5	" " " "



Local shocks, May 1932.

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
61	22	01:06:06	<del>18.3, 20.7</del>					18.1, 27.5	28.0, 45.1
		Δ, A						70, 1.1	140, 0.2
62	22	01:52:27	78, 89, 134	87, 147	150			39.1, 48.2	49.0, 66.3
		Δ, A	380, 0.05	380, 0.05	390, 0.05			70, 2.5	140, 0.9
63	22	15:39:	18.3, 20.7	18.2, 20.2					
		Δ, A	14, 0, 05	13,					
64	22	18:11:02						43.1, 74.9	53, 91.8
		Δ, A						280, 2.5	360, 0.5
65	23	12:10:39	50.4, 57.8, 58.1, 58.5	49.0, 56.0	43.8, 47.6				
		Δ, A	58, 0.05	53,	26, 0.6				
66	23	11:21:					01.5, 03.5		
		Δ, A					, 1.5		
67	23	15:04:28.4	30.8, 32.6	31.9, 34.2	48.3				
		Δ, A	13, 0.8	17,	65, 0.05				
68	24	00:57:24							25.9, 27.2
		Δ, A							, 3
69	24	15:31:00.1	11.5, 19.5	11.6, 21.0	39				
		Δ, A	61, 0.1	62,	128, 0.05				
70	24	18:17:	16.9, A	0.05					
X 71	24	18:50:29	60, 83	51.4, 68.9					
		Δ, A	200, 0.05	130, 1.2					
72	24	21:17:	35.9, 37.8	31.6					
		Δ, A	, 0.05	, 0.05					
73	25	11:07:						Δt 1.5	
		Δ, A						, 4	
74	25	12:14:	60.7	58.8, 60.9					
		Δ, A	13, 0.0	13, 0.2					
75	25	21:46:	49			23.0, 43.3		98	?
		Δ, A				150±, 1		, 0.1	, 0.1
76	26	20:01:	46.8, 64.5	47.5, 65.6		30, 43		93	76.3
		Δ, A	, 0.1	, 0.1		, 0.5		, 0.05	, 0.05
77	27	18:17:			24			?	
		Δ, A						, 0.6	
78	27	19:41:				24			
		Δ, A				Δt 0.7			
						, 2.3			
79	27	19:49:				17.5			
		Δ, A				Δt 5.2			
						, 0.6			
80	28	14:55:02	44.8, 77.6	44.6, 77.1	34.0, 57.1			Δt 16.0	
		Δ, A	308, 0.4	300, 0.4	210, 0.5			150, 3.0	



No.	Epicenter	Q	M	
61	37 20 117 30	C	2.5	Southern Esmeralda County, Nevada.
62	" "	C	3	" " " "
63	34 17 118 11			Blast; road construction.
64		D	4	Northern California; Δ Tinemaha 280 km.
65	34 52 117 40	C	1.5	Near Prado, Riverside County.
66				Near La Jolla. Probably not seismic.
67	34 04 118 03	B	1.5	West of El Monte.
68		C	1.5	Near Haiwee.
69	34 30 118 40	D	2	Region of Castac.
70				Possibly not seismic. Recorded at Pasadena only.
71	33 00 116 00	D	2.5	West of Imperial Valley. Location very uncertain.
72		D		Near Mt. Wilson. Blast?
73				Near La Jolla. Probably not seismic.
74	34 17 118 11			Blast; road construction.
75	35? 120?	D	3	Coast Range, probably San Luis Obispo County.
76	35 00? 119 30?	D	2.5	Southwest of Bakersfield.
77		E	3?	To the south.
78		C	1.5	Near Santa Barbara.
79		C	1.5	Near Santa Barbara.
80	32 35 115 40	C	3.5	Southwest of Calexico. Felt at Brawley(P)



Local shocks, May 1932.

	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
81	28	18:41:38						70.0, 95.2	Δt 14
		Δ, A						210, 1.2	, 0.5
82	28	19:55:14			35.7, 55		Δt 12.4		
		Δ, A			130, 0.1		100, 2.5		
83	29	00:43:			68, 88		Δt 16		
		Δ, A			200±, 0.1		150, 0.5		
84	29	00:57:06						19, 28	Δt 5.2
		Δ, A						70, 0.2	, 1.2
85	29	04:27:	41.5, 45.1, 47.7	46.9, 50.8	54.6, 63.3, 69.8				
		Δ, A	20, 4.5	30, 5+	68, 1.6				
86	29	12:42:	51.4, 54.2	51.5, 53.9					
		Δ, A	14, 0.1	13, 0.6					
87	29	14:09:	104, 178	102	147			102, 5, 152	?
		, A	, 0.05	, 0.05	, 0.05			, 0.4	, 0.1
88	29	19:12:	45.9, 47.3, 49.4	49.8, 54.1					
		, A	, 0.2	, 0.05					
89	29	19:57:	41.4, 44.8	47					
		, A	, 0.1	, 0.05					
90	29	22:44:43	67.5, 68.4, 88.0, 89.3	68, 88	56.2, 58.2, 67.5, 71.4				
		Δ, A	150, 0.1	150, 0.1	75, 0.6				
91	30	16:59:	55, 88	57, 87	59, 107				?
		Δ, A	, 0.1	, 0.1	, 1.2			, 1.5	
92	30	19:59:30.6	47.9, 60.2	56.1, 59.9, 60.2	36, 39				Δt 2.7
		Δ, A	95, 0.1	93, 0.2	, 5.				
93	31	00:25:24.5	36.8, 45.5, 46.8	39.7, 48.7	41, 29!				
		Δ, A	70, 0.2	80, 0.2	85, 0.3				
94	31	07:01:11.1				14.7, 17.2			
		Δ, A				13, 10			
95	31	23:21:08.2	22.1, 28.0, 31.5	21, 30	11.8, 14.7				
		Δ, A	75, 0.1	70, 0.2	13, 2				



No.	Epicenter	Q	M	
81				
82	33 20 116 20	D	3.5	North of Tinemaha, $\Delta$ 210 km.
83	32 50 115 40	C	2.5	San Jacinto Fault <i>near Clark Lake</i>
84	36 35 118 05	D	2.5	San Jacinto fault zone.
85	33 52 118 09	C	2	West shore of Owens Lake.
86	33 52 118 09	C	3	Near Downey, Los Angeles County.
87	34 17 118 11			Blast; road construction.
88		E	4	Northern California?
89		D	1	Los Angeles district.
90		D	1	" " "
91	33 30 116 35	C	2.5	San Jacinto fault zone.
92		E	3	To the south.
93	33 50 117 05	C	2	Southeast of Riverside.
94	33 30 118 20	C	2.5	San Pedro Channel.
95		C	2	Near Santa Barbara ( $\Delta$ 13 km.)
	34 15 117 30	C	2	Cajon Pass.

Blasts near Tinemaha:

May 1, 12:16 ; 2, 12:05; 4, 16:41; 6, 16:43; 13, 16:37; 18, 12:13; 26, 16:38

Blasts near Riverside ( $\Delta$ t 1.7)

May 7, 11:16; May 9, 07:29



Local shocks, June 1932.

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
1	1	00:22:17						49.4, 73.4	Δt 29
		Δ, A							
2	1	14:18:					. 33	205, 1.0	260, 0.4
		, A							
3	1	16:40:06.2		25.9	09.8, 12.0, 12.3!			, 0.2	
		Δ, A		69, 0.1	13, 1.4				
4	2	04:56:05.9	20.1, 30.2	21.6, 31.9	Δt 22				
		Δ, A	77, 0.3	80, 0.1	160, 0.1				
5	2	10:17				18			
		, A							
6	2	12:17					, 0.2		83
		, A							
7	4	14:12:	12.6, 15.8, 16.9	11.7, 13.2, 14.4				, 0.2	
		, A	0.1	, 0.2					
8	4	15:42:10						37.5, 58.8	Δt 32.0
		Δ, A						170, 2.9	260, 0.2
9	5	03:37			62		88		
		Δ, A			, 0.05		, 0.3		
10	5	12:52						17, 58 A 0.1	
11	6	00:44:10	142, 241	141, 241	151, 257	134, 227	168	118, 128, 201	?
		Δ, A	980, 30						
12	6	01:26:09	141	142	150			120, 228	
		Δ, A	980,						
13	7	03:02:					12, 15		
		Δ, A					, 0.4		
14	7	21:40:17				34, 46			
		Δ, A				95, 2.5			
15	9	01:09:				46, 47 (Δt 1.0)			
		, A				, 0.1			
16	9	12:50:	07.1	05.7, 08.1					
		, A	, 0.1	, 0.3					
17	9	14:55:28.6	58.6, 79.2	57.8, 75.8	44.9, 56.1				
		Δ, A	165, 0.05	160, 0.1	90, 0.1				
18	9	15:41:						27	Δt 18
		Δ, A						, 0.1	, 0.1
9	9	18:44:02.3	30.2, 49.5	30, 49	17.6, 28.5	?			
		Δ, A	160, 0.05	158, 0.1	85, 0.1	, 0.1			
20	9	20:23:11						47, 74	Δt 31?
		Δ, A						240, 0.1	, 0.1



Local shocks, June 1932

No.	Epicenter	Q	M	
1	36° 50' 120° 50'	C	3.5	Near Oro Loma, Fresno Co.
2				Near La Jolla; probably not seismic.
3	34 15 117 30	C	1	Cajon Pass. Location ambiguous.
4	34 40 118 50	C	2	South of Tejon Pass.
5		C	1	Near Santa Barbara.
6		E	3?	Northern California?
7		D	1	Pasadena district; perhaps a blast.
8		D	3.5	Mono County? Tinemaha distant 170 km.
9		E	3?	To the south.
10		E		Northern California?
11	41 123	D	5.5	Destructive at and near Eureka, Calif.
12	41 123	D	4	Aftershock of preceding.
13		E		To the south. Recorded at La Jolla only.
14		D	2.5	95 km. west of Santa Barbara.
15	34 ? 119 ?	D	0.5	Near Santa Barbara.
16		D	1	Pasadena region; perhaps a blast.
17	34 20 116 30	C	2	Northeast front of San Bernardino Mts.
18		E		Records at Tinemaha and Haiwee only.
19	34 05 116 25	C	2	Near Morongo Valley, San Bernardino Mts.
20	36 ? 120 ?	D	2.5	Coast Range.



Local shocks, June 1932.

Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
21	10 08:49:21.7	51.0, 70.7	51.4, 69.1	38.0, 49.0	.	66.3		?
	Δ, A	162, 0.1	160, 0.2	90, 0.2		157, 0.3		, 0.1
22	10 21:50:47						28.2, 59.3	Δt 40?
	Δ, A						280, 0.2	, 0.1
23	11 11:42:	53.4, 56.1	54.0, 57.0					
	Δ, A	13, 0.1	14, 0.2					
24	11 13:55:	04.6, 06.8	08.0					
	Δ, A	13, 0.2	147, 0.1					
25	11 22:38							Δt 105?
								A 0.1
26	12 12:21:55.6						62.1, 66.7	Δt 14.6
	Δ, A						33, 13	122, 0.3
27	13 00:04:31.1	55.1, 74.4	53.5, 68.9	50.7, 64.6			787, 105.5	Δt 17.0
	Δ, A	145, 0.5	135, 0.2	108, 0.2			280, 0.1	160, 0.1
28	13 01:28:37.2	41.5, 44.5	44.2, 48.6					
	Δ, A	, 0.5	, 0.2					
29	14 01:44:17	84.0, 132					64.9, 67.3	Δt 51.3
	Δ, A	475, 0.5	, 0.2	, 0.1	, 0.7	, 0.1	72.7, 102.3	
30	15 01:26:39.4	43.7, 46.7					340, 04.3	440, 02.2
	Δ, A	, 0.3						
31	15 05:34:	73.3, 80.8		62?, 82.6				
	Δ, A	, 0.1	, 0.1	, 0.1	, 0.1,	, 0.1		
32	15 16:37:	26.9	29.4, 30.5					
	Δ, A	, 0.1	, 0.2					
33	16 12:35:22.0	67.5, 103.0		61.8, 92.4		44.1, 61.5		
	Δ, A	315, 0.5	, 0.1	270, 0.3		130, 3.0		, 0.1
34	16 13:46:					63		Δt 30
	Δ, A					, 0.1-		, 0.2
35	16 15:43:	10.1, 13.3	11.0, 13.4					
	Δ, A	13, 0.1	14, 0.5					
36	17 06:43:	66.8?, 81.7						?
	Δ, A	, 0.05						, 0.05
37	17 14:40:	05.6, 08.9, 11.8	06.6, 08.2					
	Δ, A	, 0.1	, 0.2					
38	18 06:38:00.3	27.5, 30.5, 33.1, 36.5, 49.0!	Δt 33	31.4, 58 55.8		26.3, 30.3, 33.4, 44.9, 46.6!	Δt 39?	Δt 33?
	Δ, A	170, 1.0	, 0.6	200, 0.7	, 2.3	165, 3.4	, 0.3	, 0.3
39	18 06:46:	50, 76.6		62.5, 79.6				
	Δ, A	, 0.05	, 0.05	, 0.1	, 0.1	, 0.1		
40	18 07:20:56	83.0, 107.1		89.1, 110.9, 113.8!				
	Δ, A	170, 0.05	, 0.05	200, 0.1	, 0.1	, 0.1		



No.	Epicenter	Q	M	
21	34°05' 116°25'	C	2.5	Near Morongo Valley, San Bernardino Mts.
22		E	3	Central California? Tinemaha distant 280 km.
23	34 17 118 11			Blast; road construction.
24	" "			" "
25		E		To the north.
26		D	2.5	Tinemaha distant 33 km.
27	34 51 116 51	B	2.5	Near Daggett, Mojave Desert.
28	34 00 118 10	C	1	<del>Northwestern</del> Southwestern Los Angeles district.
29	37 15 122 05	D	4.5	Santa Cruz County. Felt from Santa Cruz to San Francisco (P).
30	34 00 118 10	C	1	Southwestern Los Angeles district.
31	33 ? 119 ?	E	3?	Off the coast to the southwest.
32		D	1	Pasadena district; perhaps a blast.
33	32 00 116 10	C	3.5	Lower California.
34		E	3?	Nevada?
35	34 17 118 11			Blast; road construction.
36		E		
37		D	1	Near Mt. Wilson. Blast?
38	32 45 119 00	C	3.5	Southwest of San Clemente Island.
39		E	2	Off the coast to the southwest?
40	32 45 119 00	C	2	Southwest of San Clemente Island.



Local shocks, June 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
41	18	09:30:17				20.1, 22.4! 26.6!			
		Δ, A							
42	18	12:42:				13,8.1			
		Δ, A						121, 234.3, 237.7!	Δt 46
43	18	12:53: 12:52:72	32!		09739.1	39		490,0.2	,0.1
		Δ, A	170,0.04		,0.1	200,0.1			
44	19	03:57:16						29.3	Δt 3.8
		Δ, A						69,0.1	26,0.6
45	19	08:08:20						32.5	Δt 3.8
		Δ, A						69,0.1	26,0.2
46	19	18:56:11						24	Δt 3.4
		Δ, A						69,0.05	25,0.2
47	19	09:39:						40.2	Δt 5.6
		Δ, A						,0.1	,0.2
48	19	20:11:41						54.0	Δt 3.8
		Δ, A						69,0.1	26,0.7
49	20	04:01:45.9			48.8, 50.8				
		Δ, A			,0.2				
50	20	10:36							Δt 3.0
		Δ, A							,0.2
51	20	13:48:						18.8738.6	Δt 17??
		Δ, A						,0.1	0.1
52	20	15:40	30.6		31.2, 33.2				
		Δ, A	137,0.1		13,0.2				
53	21	01:14:							Δt 1.4
54	21	02:54:58.3	69.1! 76.9!	67.5! 74.0!	64.5! 68.6!	Δt=24.5	Δt=15.7	Δt=26?	A 0.4 Δt 23.8
54a → 55	22	04:50:	59,2.7	49,?	29,4.3	200,0.2	145,0.4	,0.1	220,0.2
		Δ, A					79.6, 94.6		
		Δ, A			,0.5		,0.2		
56	22	18:25:52.7	82.5, 104.2, 105.9!	Δt 23.0	72.7, 73.2! 88.7!		64.5! 74.2!		Δt 41.0
		Δ, A	190,2.6	,3.2	115,5.2		78,19.6		355,0.3
57	22	18:30:37.1	66.8! 90.0!				48.7! 58.3!		Δt 42.0
		Δ, A	185,2.0	,1.4	115,3.0	,0.4	76,9.9		355,0.3
58	22	23:25:30.5	51.0! 67.4!				96.4		Δt 21
		Δ, A	124,0.2	,0.1	,0.05	75±,0.5		250,0.1	170,0.1
59	23	03:26:					52.6, 55.2!		
		Δ, A					,0.1		
60	23	05:23:24					64.7, 68.3, 77.2, 95.5!		Δt 21?
		Δ, A					280,0.2		,0.1



No.	Epicentre	Q	M	
41	34 ? 119 ?	C	2	Na Near Santa Barbara (distant 13 km.)
42		E	4	Tinemaha distant about 500 km.
43	32 45 119 00	C	2	Southwest of San Clemente Island.
44	36 25 118 00	C	1.5	West shore of Owens Lake.
45	36 25 118 00	C	1	" " " "
46	36 25 118 00	C	1	" " " "
47		D	1	Probably same.
48	36 25 118 00	C	1.5	West shore of Owens Lake.
49		C	1	Near Riverside.
50		Q	1	Near Haiwee.
51		E	2?	Northern California?
52	34 17 118 11			Blast; road construction.
53		C	1	Near Haiwee.
54	34 10 117 35	B	3	Foothill fault north of Cucamonga.
54a	33 ? 119 ?	D	2.5	Off the coast to the southwest.
55		E	2	Probably off the coast to the southwest.
56	33 10 116 30	B	4	Agua Caliente fault zone. Felt at Santa Ysabel and Jamul (CGS).
57	33 10 116 30	B	4	" " " " " " " "
58	34 55 119 05	C	2.5	Wheeler Ridge, <del>near</del>
59		E		Small record at Tinemaha only.
60		E	3	Tinemaha distant 280 km.

No.	Date	P.S.T.	Pasadena	MW	Riverside	S.Barbara	La Jolla	Tinemaha	Haiwee
54a	21	14:48: <sup>39</sup> <del>42</del>	66.6, 85.7	<i>At=20</i>	69.2, 93.1	74.5?, 93.3	69		?
		Δ, A	160, 0.2	, 0.1	195, 0.2	195, 0.3	, 0.2	, 0.1	, 0.1



Local shocks, June 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
61	23	06:23:27.9	38??	50.7	30.6, 32.0, 32.5				
		$\Delta, A$		72, 0.05	, 0.7				
62	25	07:14:						02.5, A 0.1	
63	25	13:16:30	<del>38.0, 38.2</del>		49.0, 62.2		47.9, 59.2!		
		$\Delta, A$		, 0.1	103, 0.3		92, 0.4		
64	25	15:39:	37.5	37.4, 39.8					
		$\Delta, A$	, 0.3	, 0.4					
65	25	18:56:23.4	43.0! 56.4!	$\Delta t$ 12.3	33.5! 40.6!				?
		$\Delta, A$	107, 0.4	, 0.4	54, 0.9		, 0.4	, 0.1	, 0.1
66	26	10:18:			36.9		142, 33.9		
		$\Delta, A$		, 0.05	, 0.3		, 0.1		
67	26	18:33:22.3	74 $\pm$ , 114!	$\Delta t$ 38.0	$\Delta t$ 31.0		52.3, 54.2, 72.3!		$\Delta t$ 54 $\pm$
		$\Delta, A$	365, 0.6	, 0.3	280, 0.4	, 0.1	192, 4.7	, 0.1	, 0.1
68	26	13:13:						24.9	?
		, A						, 0.1	, 0.1
69	25	21:17:25.1	96	96	115 $\pm$		72.5, 90.5, 109.3		$\Delta t$ 39.2
		$\Delta, A$	520, 0.1			, 0.2	330, 0.18		350, 0.3
70	26	22:56						60?, 79 A 0.1	
71	27	01:46:43	95.8, 134.9!	$\Delta t$ -37	$\Delta t$ -27.2		70.2, 71.6, 75.6, 92.0 $\pm$		
		$\Delta, A$	365, 0.4	, 0.2	280, 0.3	, 0.1	192, 4.0		
72	27	02:07:19.9	69?, 73.7, 74.3, 76.5, 112.6! 115.5!	73.1, 60.7, 64.5!	114.6! 96.2!		49.9, 52.7, 54.6, 70.8!	$\Delta t$ 74	$\Delta t$ 62
		$\Delta, A$	365, 6.2	, 5	280, 4	, 1.7	192, 4.1	, 0.7	, 1.0
73	27	02:16:09	62.0, 102.0	$\Delta t$ 40	$\Delta t$ 33.9		38.5, 42.9!		$\Delta t$ 61 $\pm$
		$\Delta, A$	365, 1.0	, 0.7	280, 0.5	, 0.1	192, 6.6	, 0.1	, 0.1
74	28	09:31:120.1						32.1, 40.3!	?
		$\Delta, A$						65, 0.4	, 0.1
75	28	12:35:32.2	58	47.0, 56.3!	35.8, 37.8, 38.3!				
		$\Delta, A$	85, 0.04	73, 0.1	13, 0.5				
76	28	18 13:	39.6, 41.9	42.1, 45.8					
		$\Delta, A$	, 0.04	, 0.05					
77	28	18:45:	37.5, 40.1	37.5, 39.8					
		$\Delta, A$	14, 0.2	13, 0.3					
78	29	00:29:37.9			41.5! 44.2!				
		$\Delta, A$		, 0.05	, 0.6				
79	29	05:13:29.6	58.5, 81.4	$\Delta t$ 20	54.2, 70.3				?
		$\Delta, A$	183, 0.1	, 0.1	133, 0.1				, 0.1
80	29	08:02:					47.7?, 58.1		$\Delta t$ 2.6
		, A						, 0.1	, 1.9



No.	Epicentre	Q	M	
61		C	1.5	Very near Riverside.
62		E		Small; record at Tinemaha only
63	33°23' 116°20'	B	2.5	San Jacinto Fault northwest of Clark Lake.
64	34 17 118 11			Blast; road construction.
65	34 25 117 05	C	2.5	North of the San Bernardino Mts.
66		E		to the southeast.
67	31 50 116 20	D	4	Lower California.
68		E		To the north.
69	36 ? 122 ?	D	4	Coast of Monterey County
70		E		Recorded at Tinemaha only.
71	31 50 116 20	D	4	Lower California.
72	31 50 116 20	D	4.5	" " ° Felt at Campo (CGS)
73	31 50 116 20	D	4	" "
74		D	2	Tinemaha distant 62 km.
75	34 10 117 20	C	1.5	Cajon Pass.
76		C	1,	Los Angeles district
77	34 17 118 11			Blast; road construction.
78		D	1	Riverside district. Cajon Pass?
79	34 52 116 25	C	2.5	Between Ludlow and <sup>Newberry</sup> <del>Barstow</del> , Mojave Desert.
80		C	2	Near Haiwee.



Local Shocks June 1932

No.	Date	P.S.P.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
81	29	14:35:44		04.0, 05.7					
82	29	16:23:		A 0.2					
		$\Delta, A$						56, 60.2, 91.9, 103.3!	
83	29	18:05:57.3						, 0.3	, 0.2
		$\Delta, A$						69.6, 78.8!	?
84	29	20:17:						68, 0.3	, 0.1
85	29	21:48:							$\Delta t$ 1.2 A 0.3 $\Delta t$ 1.6, A 0.9
86	30	00:06:06.9	18.2, 26.2	21.0, 29.2, 31.1					
		$\Delta, A$	61, 0.05	, 0.1					
87	30	02:22:52	68.0, 79.6!	68.7, 76.7	59.4!, 64.3				?
		$\Delta, A$	89, 0.2	70, 0.12	35, 0.7				, 0.05
88	30	09:24:							$\Delta t$ 0.8, 2.9
		$\Delta, A$							, 0.5
89	30	10:44:18.5	24.8, 29.8	25.7, 30.8	49.9				
		$\Delta, A$	36, 0.05	37, 0.1	102, 0.05				
90	30	11:29:						67.4, 73.9	$\Delta t$ 21±
		$\Delta, A$						, 0.1	, 0.1
91	30	14:54:						48.4, 54.7, 73.8	
		$\Delta, A$						, 0.1	
92	30	15:50:				27.3! 30.2! 31.1!			
		$\Delta, A$		, 0.1		, 1.5			
93	30	16:07:	02.3	00.7, 02.2					
		$\Delta, A$	, 0.05	, 0.4					
94	30	18:11:	16.2, 22.3, 27.6	19.1, 22.6					
		$\Delta, A$	, 0.3	, 0.05					
95	30	21:50:							$\Delta t$ 1.1 A 1.4



No.	Epicenter	Q	M	
81				Near Mt. Wilson; probably a blast.
82		E	3	Central California?
83		D	2	Tinemaha distant 68 km.
84		C	0.5	Very near Haiwee.
85		C	1	Very near Haiwee.
86		D	1	61 km. westerly from Pasadena.
87	34 20 117 25	C	2	Cajon Pass.
88	34 ? 119 ?	C	1.5	Near Santa Barbara.
89	34 27 118 22	B	1.5	Near Lang, Los Angeles County.
90		E	2.5	Recorded at Tinemaha and Haiwee.
91		E	2	Recorded at Tinemaha.
92	34 ? 119 ?	C	2.5	Near Santa Barbara.
93				Near Mt. Wilson; probably a blast.
94		D	1.5	Pasadena District.
95		C	1.5	Very near Haiwee.

Blasts near Tinemaha: June 4, 12:06; 6, 12:07; 8, 12:45; 10, 16:38; 13, 16:42; 20, 12:17.  
 Blast near Riverside (S-P 1.5); June 9, 16:48.



Local shocks, July 1932.

No.	Date.	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
1	1	00:46:11.1	39.6, 61.9, $\Delta t = 21.3$		47.6, 50.6, 67.4				?
		$\Delta, A$	180, 0.1	, 0.1	215, 0.1	, 0.1	, 0.2		, 0.1
2	1	06:22							$\Delta t$ 3.7
									$\Delta 25, A$ 0.5
3	1	07:24:39.3						57, 5, 70.0	?
		$\Delta, A$						100, 0.2	, 0.1
4	1	14:36:42						55	$\Delta t$ 3.5
		$\Delta, A$						70, 0.05	22, 0.6
5	1	16:38:51.5				56.0, 59.2?			
		$\Delta, A$				62.1!			
6	1	22:47:	22.1! 23.5!	22.2, 23.4!		20, 0.5			
		$\Delta, A$	, 0.05	, 0.05					
7	2	06:13							$\Delta t$ 2.0
									A 0.1
8	2	06:37:	00.0!	00.1, 02.5					
		$\Delta, A$	14, 0.05	14, 0.1					
9	2	08:10							$\Delta t$ 2.0
									A 0.2
10	2	09:14:15.7						33.3, 45.5	$\Delta t$ 1.8
		$\Delta, A$						98, 0.1	12, 3.7
11	2	13:13							$\Delta t$ 1.0
									A 0.4
12	3	05:57:59.2			62.1! 64.1!				
					D 16, A 0.7				
13	3	07:01:	51.7! 54.3!	52.6! 54.5!					
		$\Delta, A$	14, 0.05	16.7, 0.3					
14	3	07:44:51			70.8, 85.3	60.1			
		$\Delta, A$			115, 0.05	30.7, 0.3			
15	3	08:56:32	68		50.1, 62.4				$\Delta t$ 35
		$\Delta, A$	240, 0.02	, 0.05	100, 0.5			, 0.05	310, 0.1
16	3	12:54:26.7			29.6! 31.7!				
		, A		, 0.05	, 1.7				
17	3	22:22			50	41			
		, A			, 0.1	, 0.1			
18	4	05:27:15.8						25.2, 31.8!	$\Delta t$ 5.1
		$\Delta, A$						50, 0.3	37, 0.3
19	4	10:34:				31.0, 31.8!			
						32.8			
						, A 0.4			
20	4	12:56:39						82.3, 115	$\Delta t$ 30.5
		$\Delta, A$						300, 0.3	275, 0.1



No.	Epicentre	Q	M	
1	32°45' 119°00'	C	2,5	Southwest of San Clemente Island.
2		D	1	Haiwee distant 25 km. West shore Owens Lake?
3		D	2	About 100 km. north of Tinemaha.
4		D	1	Haiwee distant 22 km. West shore of Owens Lake?
5		C	1	Near Santa Barbara.
6		D	1	Pasadena district.
7		D	0.5	near Haiwee.
8	34 17 118 11			Blast: road construction.
9		D	0.5	near Haiwee.
10	36 13 117 55	C	2.4	north of Haiwee.
11		B	1	very near Haiwee.
12		C	1.5	near Riverside.
13	34 17? 118 11?			Probably a blast on road construction.
14		D	1.5	Santa Barbara region.
15	35 05? 120 50?	C	2.5	Off the coast west of San Luis Obispo.
16		C	1.5	Near Riverside.
17		E		To the south
18	36 45 118 05	C	1	North of Owens Lake.
19		C	1	Near Santa Barbara.
20	35 25 <del>120</del> 25 121	C	3	Probably as given, but subject to error of interpretation. Off Cayucus, San Luis Obispo Co.



Local shocks, July 1932.

Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwea
21	4 13:15:14.6		31.0	18.4, 21.1		-----		
	Δ, A		51, 0.05	15, 0.3				
22	4 13:50					-----		Δt 1.7, 3.2
	Δ, A							12, 0, 3
23	4 22:14:43	78.3, 101.5	76.8, 81.1 109.9, 117.2	68.7, 90.9		-----		
	Δ, A	240, 0.05	235, 0.05	160, 0.1				
24	5 07:47:	36.0, 38.9	38.2, 42.1			-----		
	Δ, A	, 0.8	, 0.5					
25	5 10:09:25.8	66	56.2, 71.5	<del>29.4, 31.9</del> 34.9	29.4, 31.9	-----		
	Δ, A	, 0.05	157, 0.05	<del>13, 2.1</del>	13, 2.1			
26	5 10:09:45.2				51.3	-----		
27	5 11:01:		47.0, 55.6		Δ 13, A 0.8 31.5	-----		
	, A		, 0.05		, 0.4			
28	6 01:30	65.2		48.8				
	, A	, 0.1	, 0.1	, 0.1		, 0.5		
29	6 04:16:00.5			07.5, 12.5				
	Δ, A		, 0.1	38, 0.2				
30	6 06:31:20	62.4, 89	Δt = 28.5	Δt = 27	43.2, 46.0, 59.6	Δt 52	Δt 35	Δt 33
	Δ, A	270, 0.5	, 0.5	, 0.2	153, 4.7	, 0.1	, 0.2	300, 0.4
31	6 10:11:05.9	20.7, 31.1	22.0, 32.5, 33.7	24.9, 36.0, 36.9, 37.7				
	Δ, A	80, 0.2	85, 0.2	103, 0.1				
32	6 10:42:17	82.2	56.6, 86.	56.6, 86.1		Δt 15.6		?
	Δ, A	330, 0.2	, 0.1	265, 0.1		145, 1.6		, 0.1
33	6 19:16:53.9				57.8, 60.0! 63.0!			
	Δ, A				, 1.1			
34	6 20:15:28.9			32.5, 35.1				
				D 2, A 0.8				
35	7 08:15:44	146, 232	-----	139, 210	168, 260	Δt 18, 82	183, 299	Δt 123
	Δ, A	845, 19				, 45		
36	7 11:09:36.0				40.9, 44.3, 46.3			
					D 27, A 1.5			
37	7 14:09			67		Δt 54		
	, A			, 0.1		, 0.3		
38	7 16:28:22.7				25.6, 27.7			
					Δ 17, A 0.5			
39	8 00:50					? A 0.1		
40	8 01:44:18.5						48.5	Δt 1.7, 2.8
	Δ, A						97, 0.1	12, 1.9



No.	Epicentre	M	1	
21	34°05' 117°35'	C	1	Cucamonga Valley.
22	36 13 117 55	C	1	North of Haiwee
23	33 05 116 00	C	2.5	San Jacinto Fault at Carrizo Creek.
24			1.5	Los Angeles district.
25	34 35 119 46	C	2	Northwest of Santa Barbara.
26	" " " "	C	1.5	" " " "
27		D	1	Santa Barbara region.
28		E		To the south.
29		C	1.5	Riverside district; Riverside distant 36 km. Probably E. of R.
30	35 25 121 00	C	3.5	Off Cayucos.
31	<del>34</del> 25 118 20	C	2	San Pedro Channel.
32	<del>33</del> 32 007 116 007	D	3.5	Lower California.
33	34 35 119 46	C	1.5	Northwest of Santa Barbara.
34		C	1.5	Near Riverside.
35	28 113	D	5.5	Lower California. Also in teleseism report.
36		C	1.5	Near Santa Barbara.
37		E	4	To the south.
38		C	1	Near Santa Barbara.
39		E		Small motion, at La Jolla only.
40	36 13 117 55	C	2	North of Haiwee.







No.	Epicenter	Q	M	
41		E	2.5	To the south; La Jolla distant 110 km.
42		C	1.5	Near Santa Barbara.
43	34°40' 117° <sup>15'</sup>	C	2	South of Barstow.
44	34 17 118 11			Blast; road construction.
45		D	2	North of Haiwee.
46		C	1	Near Haiwee.
47		C	1	Near Santa Barbara.
48	33 45 118 20	C	2.5	Near Point Vicente. ( <i>h = 25 km.</i> )
49	33 207 116 207	D	3	San Jacinto Fault? Location and time poor.
50		D	1.5	Tinemaha district.
51		D	2	Haiwee distant 22 km.
52		D	2	" " "
53		D	2	" " "
54	34 45 116 35	C	3	South of Newberry, Mojave Desert.
55		D	2.5	Haiwee distant 25 km.
56		E		To the south.
57		E		" " "
58	36 20 121 00	C	3	San Andreas Fault, San Benito County.
59	34 17 118 11			Blast; road construction.
60		C	1	Near Haiwee.







No.	Epicentre	Q	M	
61	34°17' 118°11'			Blast; road construction.
62	34 44, 116 30	B	2.5	Between Newberry and Ludlow, Mojave Desert.
63	" 2 " "	B	3	" " " " " "
64	39? 120?	D	3	Northern California.
65	34 50 116 25	C	2.5	Between Newberry and Ludlow, Mojave Desert.
66		C	1	Near Haiwee.
67	33 40 119 05	B	2	Northwest of Santa Barbara <u>Island</u> .
68	33 25 117 10	B	2.5	Elsinore Fault near Temecula.
69		D	1	Near Santa Barbara.
70	35 10 120 20	C	3.5	Southeast of San Luis Obispo.
71	<del>33</del> 42 116 30	C	3.5	Between Newberry and Ludlow, Mojave Desert.
72	34 35 10 118 00	C	2	East of Mojave.
73		C	1.5	Near Santa Barbara.
74		E		
75		C	0.5	Near Haiwee.
76		C	1	" "
77	36 50? 117 55?	D	2	Saline Valley? Tinemaha distant 35 km.
78		D	2	Haiwee distant 22 km.
79	34 05 116 50	C	2	San Bernardino Mts.
80		E		At Haiwee only. May not be seismic.



Local shucks, July 1932.

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
81	16	15:42:		49.4, 50.4! A 0.2					
82	17	01:42							Δt 2.7 A 0.4
83	17	02:01:21.6						29.0, 34.2	Δt 11?
84	17	02:03:						38, 1.2 12.8, 13.8! 15.5!	, 0.05
85	17	14:52:11.7	43.4! 68.4!	Δt 23.5	Δt 27	Δt 27+		, A 0.5 31.5, 51	Δt 5.8
86	17	15:08:	205, 0.3 52.5! 55.0!	, 0.4 53.1! 55.3!	250, 0.1	, 0.1	---	115, 2.7	43, 1.2
87	18	13:59:51.2	Δ, A 13, 0.05	13, 0.2					
88	19	13:06			53.9! 55.8!				
89	19	15:35:		100		62, 107		Δt 31	Δt 1.7 A 0.2 Δt 35.5
90	19	16:09:	Δ, A 31.3	, 0.1 26.3, 29.2	, 0.05	, 0.3		270, 1.0	300, 0.3
91	19	23:52:	, A 129, 218	, 0 81	, 0.3	139, 212		Δt 61	?
92	20	01:04:30.2	Δ, A , 0.4	, 0.2	, 0.2	33.6, 36.3	570, 4.9	, 0.3	, 0.1
93	20	07:10	<del>109.9</del>	109.9	Δ 12, A 0.7 91			?	
94	20	16:07:	Δ, A 88, 170	, 0.1 Δt 56	, 0.2	80, 149	, 0.2 Δt 59	Δt 144?	?
95	20	16:33:	, A 26.3, 29.3	, 0.6 26.3, 27.7, 29.1	, 0.2	, 0.2	550, 1.1	, 0.2	, 0.1
96	20	20:24	, A , 0.2	, 0.3				42	Δt 2.9
97	21	01:39:	Δ, A					, 0.1	, 2.2
98	21	03:44:36	, A	102.9	63.2, 84.9			, 0.2	
99	21	16:15:39.2	Δ, A 53.1! 62.9!	250, 0.05 52.1! 61.5!	170, 0.1	42.9! 45.3!	110?, 0.2	?	?
100	21	16:28	Δ, A 75, 0.5	72, 1.5	12, 7+				Δt 1.0 1.4 , A 1.5



No.	Epicentre.	Q	M	
81				Near Mt. Wilson; probably a blast.
82		C	1	Near Haiwee.
83	36°50' 7117°55'	D	1.5	Saline Valley?
84		D	27	Near Tinemaha.
85	36 05 118 28	B	2.5	Kern Fault, upper Kern River.
86	34 17 118 11			Blast; road construction.
87		C	1	Near Riverside.
88		C	1	Near Haiwee.
89	36 40 121 10	D	3.5	San Benito County.
90				Near Mt. Wilson. Blast?
91		D	4.5	Gulf of California. La Jolla <del>and</del> distant 570 km.
92		C	1	Near Riverside.
93		E		To the south.
94		D	4.5	Gulf of California. La Jolla distant 550 km.
95				Pasadena district; blast?
96		C	2	Near Haiwee.
97		C	1	Near Santa Barbara.
98	33 00 115 50	D	2.5	San Jacinto Fault near Supersition Mts.
99	33 52 117 23	B	2.5	South of Riverside.
100		C	2.5	Very near Haiwee.



Local shocks, July 1932



No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S.Barbara	La Jolla	Tinemaha	Haiwee
101	22	06:33:55	63.4,69.6	62.2,66.5	64.87,67.8				
102	22	11:09:45?	Δ,A 47,0.1	31,0.9 53.2,57.0	40,0.1				
103	23	11:13	Δ,A	317,0.1					
104	23	15:30:		04:3,05.7		477,57.6 A 0.5			
105	24	08:17:		A 0.5		14.5?16.4! 19.7			
106	24	16:25:				,A 0.7		45,80	?
107	24	20:03:	,A 61.2	42				,0.1	,0.1
108	25	06:59:12.9	,A ,0.1	,0.1					,0.05
109	25	08:48:	Δ,A		10.7			70,0.5	170±,0.1
110	25	12:42:		03.0,05.5	03.3,04.7, 05.5!				
111	25	13:33:04.5	Δ,A 13,0.2	13,0.4					187 Δt
112	25	22:51:58.3	Δ,A 111,0.3	111,0.1					170,0.5
113	26	05:45:01.8		88.8!93.8! 112.9!	Δt 24	93.5,96.2! 122.2!	90,93,113!	83.2! 101.5±	Δt 9.0
114	26	08:53:	Δ,A 196,7.1	195,7.3	233,3.5	197,16.0		150, 28.2,49.1	69,78 ?
115	26	16:22:	Δ,A 163,0.4					163,0.4	,0.1
116	27	16:07: 4:07	,A ,0.5	,0.1					?
117	28	03:52:18.0		53.6,55.1, 64.6	61.1			,0.2	,0.05
118	28	09:18:03.1	Δ,A 385,0.1	387,0.1	325,0.3				Δt 16,3.5
119	28	13:43:							12,0.5
120	28	22:30:		72.3,114.1	75,115.3	66,99.8	50.8,70.0	?	?
			Δ,A					182,2.9	,0.05
									,0.1
								11.2,16.2	?
			Δ,A					42,0.4	,0.05
				07.5,9.6	07.6,9.6				
			Δ,A	13,0.1	13,0.3				
							08!		
							A 0.3		



No.	Epicenter				
101	34°13' 117°40'	B	1.5	San Gabriel Mts. southwest of San Antonio Peak.	
102			1.5	Probably same source as preceding.	
103		D	27	Recorded only at Santa Barbara.	
104				Near Mt. Wilson; probably a blast.	
105		C	1	Near Santa Barbara.	
106		E	37	Central California?	
107		E		Mojave Desert region?	
108	37 15 118 55	C	2.5	Sierra Nevada west of Bishop.	
109				Near Mt. Wilson. Blast?	
110	34 17 118 11			Blast; road construction.	
111	34 53 119 00	C	2	Wheeler Ridge.	
112	35 48 118 32	B	4.5	Southeast of California Hot Springs. Felt widely. (P, CGS)	
113		D	2.5	163 km. northward from Tinemaha.	
114		E	?	Recorded at Tinemaha and Haiwee only.	
115				Pasadena district. Peculiar; artificial?	
116	36 13 117 55	C	1.5	North of Haiwee.	
117	31 00± 117 00±	D	3.5	Off the coast of Lower California.	
118		D	2	Tinemaha distant 42 km.	
119	34 17 118 11			Blast; road construction.	
120		E		Recorded at La Jolla only.	



Local shocks, July 1932.

No.	Date	PqS.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
121	29	01:08:37.7			41.3!43.8!				
122	29	02:09:		13,1.4					
123	29	23:13:59.7	86.8!89.4! 110.3!110.9!	86.3!87.0! 106.2!	80.0!96.2!	$\Delta t = 38$	50,66! ( $\Delta t$ 16.3) 1507,0.8	95.0!124.9! 145.7!	102.0,113.2, $\Delta t$ 28 144.2
124	29	23:31:29.4	169,13 56.5,68.0	158,11.8 $\Delta t = 199$	117,10+ 49.1,66.1	,6.7	240,0.7	292,5.0	194,7.2 ?
125	30	03:27:48.2	169,0.1 75.3,96.6	158,0.1 $\Delta t = 20$	117,0.1 67.6,83.7				194,0.05 ?
126	30	10:40:58.7	169,0.1 87.9!90.7, 106.6,108.4!	158,0.1 87	117,0.3 79.4,95.2				194,0.05
127	30	11:31:08	185,0.1 12.9!15.9! 13.5!16.2!	175,0.1 15.3!20.1!	118,0.2 21.1!30.9!				?
128	30	11:32:50	25,1.8 53.0!55.8!	35,1.9 55.8,55.9!	75,1.3 62.3,70.8	160,0.7	145,0.3		240,0.1
129	30	12:01:50	,A ,0.4	,0.4	,0.2	,0.1			
130	30	14:45:26.0		,0.5	,0.2	,0.1	29.2!31.5!		
131	30	15:16:07.4	25.2!25.9, 38.5!	26.6,40.5		13,1.3 20.5!29.5!			?
132	30	20:23:08.5	105,0,3 34.5,37.3! 55.2!	108,00.2	,0.1	69,0.9		,0.05	,0.05
133	31	06:05:58	161,0.1	152,0.1	111,0.1			96±,124	$\Delta t$ 32±
134	31	11:22:17					260,0.2		,0.1
135	31	17:22:	58.7,60.9	59.0,60.3, 61.0,61.7		23,27,29 $\Delta t$ 4.1			
			13,0.1	14,0.5		28,1.1			



No.	Epicentre	Q	M	
121		C	1.5	Near Riverside.
122		E	3	To the south; La Jolla distant about 150 km.
123	34°51' 116°35'	B	4.5	Near Newberry, Mojave Desert.
124	" " " "	B	2	" " " "
125	" " " "	C	2.5	" " " "
126	34 30 116 20	C	2	South of Ludlow, Mojave Desert.
127	33 55 118 10	B	3	West of Downey. Felt at Bell and in Los Angeles (CGS).
128				
129				
130		C	1.5	Near Santa Barbara.
131	34 43 119 03	B	2.5	Lockwood Valley, Ventura County.
132	33 50 116 40	C	2	Near Newberry, Mojave Desert.
133	36 ? 120 ?	D	3	Probably San Benito County.
134		D	1.5	Santa Barbara distant 28 km.
135	34 17 118 11			Blast; road construction.

Small blasts recorded at Basadena only (S-P 1.1 to 1.5)

July 5, 16:47 (three); 16:48, 16:51 (two), 16:59

9, 12:03, 12:10, 16:12, 16:25

11, 12:12

12, 16:12

13, 12:02, 15:58

14, 12:02

15, 16:02

18, 11:58

21, 16:00



Local shocks, August 1932.

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinsaha	Haiwee
1	1	00:50:30.5 Δ, A	52.0!56.5! 68.3!68.9! 126,0.5	54.5,72.2! 3.6! 138,0.6	0.2	33.8!36.0! 25			Δt 29 0.3
2	1	01:21:54.8 Δ, A	24.4!46.6! 180,0.2	(Δt=20) 0.1	14.3,29.5! 0.3				??5 0.05
3	1	12:38					? (A 1.0)		
4	1	16:14:43.7 D, A		59.3?66.8! 75,0.1	47.3,49.8 20,0.9				
5	2	00:44							Δt 1.9 A 0.4
6	2	18:32:38 Δ, A	93,118.1 310,0.05	(Δt=31) ,0.1	75,968 200,0.1		68,80.8 150,1.0		
7	2	21:26						? (A 0.1)	
8	2	21:47:25± Δ, A	107,110.5 550,0.02	----- -----	Δt=60± ,0.1	? ,0.2	<del>53.6,54.4</del> 75.3! (3.9,150)	53.6,54.4, Δt 30 75.3! 250,1.0	
9	3	00:12:10		-----	35,57.0 150,0.05		26,37 90,0.6		
10	3	00:33:05.2 D 40, A 0.1	12.4,15.8, 17.5	-----					
11	3	00:42: , A		-----	68 ,0.1		52,69 ,0.3		
12	3	08:24:52.3 Δ, A		-----			61.9,68.7 51,0.6	Δt 18.3 136,0.3	
13	3	19:28:41.4 Δ, A	71.4,94.9 191,0.1	Δt=17.1 ,0.1	69.7,91.4 176,0.2		? ,0.1	Δt 12.2 100,0.2	
14	3	23:45: Δ, A					18,27.3 ,0.4		
15	4	03:40:43 Δ, A	62.0			47,50 (Δt=3.1) 19,1.8			
16	4	11:12: A 0.1		18.4,25.2! A 0.1					
17	4	12:40:13.8 Δ, A	38.5,39.5, 56.9!58.7! 138,0.2	Δt=14.5 134,0.2	33.7!48.3 116,0.1			? ,0.05	? ,0.1
18	4	16:11:45.8 Δ, A	74.5,94.6 156,0.1	Δt=20.0 155,0.1	62.6,74.3! 93,0.6		,0.5		
19	5	05:27:07.0 Δ, A					10.1!12.3! D 17, A 4.0	Δt 9.7 ,035	
20	5	07:56:31 Δ, A					74.5,108.8 300,0.2	Δt=40 350,0.1	



No.	Epicentre	Q	M	
1	34°25' 119°25'	C	3	East of Santa Barbara. Location somewhat ambiguous
2	34 25 116 15	C	2.5	Northeast of San Bernardino Mts.
3		E		Small record at La Jolla only.
4	34 ? 117 ?	D	2	Riverside district
5		C	1	Near Haiwee.
6	32 ? 115 ?	E	3	Imperial Valley region?
7		E		Small record at Tinemaha only.
8	38 ? 117 ?	D	4	Nevada; Tinemaha distant about 180 km.
9	33 00 116 15	D	2.5	Location ambiguous.
10		D	1.5	Pasadena distant 38km.
11		E	2.5	Recorded at La Jolla and Riverside.
12	37 20 117 45	C	2.5	Northeast of Tinemaha
13	35 35 117 20	B	2.5	Garlock Fault south of Searles Lake.
14		E		Small record at La Jolla only
15	34 ? 119 ?	C	1.5	Near Santa Barbara.
16	34 ? 118 ?	D		Small shock not far from Mt. Wilson.
17	35 00 116 50	C	2.5	Northeast of Barstow.
18	33 20 116 50	C	2.5	Elsinore Fault near Wellie.
19	37 ? 118 ?	C	1.5	Owens Valley near Tinemaha.
20		E	3	Central California. Tinemaha distant 300 km.



Local shocks, August, 1932

Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
21 5	20:43:00 Δ, A						26.7, 27.7! 48.4 155, 0.7	Δt 34
22 5	23:32:24.6 Δ, A	49.2, 65.6, 66.5 135, 0.2	Δt = 15.7 0.4	37.3! 45.8! 68, 1.4		Δt = 9.9 78, 0.8		
23 6	03:20:34.2	66.7, 67.4! 92.3, 92.7! 212, 0.02	Δt = 15.0 0.1	55.8, 72, 2! 123, 0.2		Δt > 8.3 0.6		
24 6	03:22:19.3	51.8, 52.5! 77.8 212, 0.01	Δt = 25.0 0.05	41.1, 57.5! 0.1		? 0.4		
25 5 6	03:33:				50, 52 Δ 927A 0.2			
26 16 8	05:16:50 Δ, A					74, 93.1 96.0 150?, 0.1		
27 17 8	05:48:33 Δ, A					57, 76.2! 150?, 0.4		
28 18 8	06:41 A			25.6, 27.4! 0.05	0.9			
29 19 8	17:16: Δ, A	54.3, 57.1 14, 0.1	54.5, 57.2 14, 0.4					
30 8	23:15:02.2 Δ, A	35.0, 60.9, 64.8 214, 0.05		25, 39.5 122, 0.1				
31 31 8	23:25:13.9 D, A	25.4, 33.5 64, 0.1	24, 31.3 58, 0.2	19.2! 22.7! 27, 0.5		? 0.1		
32 32 9	02:35						? (A 0.1)	
33 33 9	18:56:18				22, 25 A 0.5			
34 34 10	10:55:51 A				54, 56 (Δt 2.3)			
35 35 10	13:13:50 A				0.5 53, 55 (Δt 2.1)			
36 36 10	13:40:15.4 Δ, A	27.5! 29.3! 32.5! 37, 0.4	28.4! 33.6! 39, 0.4	Δt = 13 1/2 110, 0.1				
37 37 10	14:52:13? Δ, A		180 0.05		89, 148 0.05	0.1		
38 38 10	16:15:53.7 Δ, A	75.6, 76.1, 90.1 130, 0.2	Δt = 14 0.3	63.3! 70.1! 51, 0.7	? 0.6			
39 39 10	17:10				? A 0.2			
40 40 10	18:09:47.1 Δ, A	64.4, 66.4, 76.5 95, 0.1	66.2, 79.2 104, 0.1	0.05				



No.	DECK	ROCK	Epicentre	Q	M	
21				E	3	Northern California? Tinemaha distant 155 km.
22			33°32' 116°56'	B	2.5	Northwest of Anguanga, Riverside County
23			33 08 116 28	C	2.5	Agua Caliente Fault, San Diego County.
24			" 2" " "	C	2	" " " " " "
25				E	3	West coast of Santa Barbara County?
26				E	2	La Jolla distant 150 km?
27				E	2.5	" " "
28						Very near Riverside. Probably a blast.
<del>28</del> 30			32 45 116 10	D	2	Near Indio, Riverside Co. Location doubtful.
<del>29</del> 29			34 17 118 11			Blast; road construction.
31			33 55 <sup>117</sup> <del>118</del> 35	C	2	North of Corona
32				E		Small motion recorded at Tinemaha only.
33			34 ? 119 ?	C	1	Near Santa Barbara
34			34 ? 119 ?	C	1	" " "
35			34 ? 119 ?	C	1	" " "
36			34 25 118 25	C	2	West of Lang, Los Angeles County.
37				E	3.5	To the south. La Jolla distant 570 km.?
38			33 40 116 55	C	2.5	Near San Jacinto.
39				E		Small motion recorded at Santa Barbara only.
40				E	2	Pasadena distant 100 km.



Local shocks, August 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
41	11	04:47							
42	11	11:49:51				38,39 A 0.6 54,56 (St 2.0) A 2.1			
43	12	04:58:	39.6,42.4	40.3,42.4					
		Δ,A	14,0.1	14,0.1					
44	12	05:31:47.0	63.5,75.1	Δt < 1.0	53.6!58.1				
		Δ,A	92,00.02	77,0.05	31,0.2				
45	12	19:10:33.6	63.3,86.6	62.5,82.7!		Δt = 18.5			
		Δ,A	190,0.1	,0.1	,0.1	140,0.4			
46	13	06:58:22					53,77 200,0.5		
		Δ,A							
47	13	14:42:48				50,52 A 0.5			
48	15	21:38:07.5	11.7,14.3! 14.9!!	13.5,17.6!	28.4! 30.6!				
		Δ,A	21,0.8	31,0.9	67,0.5				
49	15	15:39: (0 15:38)	16.5,59	-----	02? 08.3, 34.0				
		,A	,0.2		,0.1				
50	15	16:29:59.4	84.0?,86.8, 105.8!	(Δt = 19)	79,9,95.7				?
		Δ,A	175,0.2	,0.1	120,0.1				,0.05
51	15	17:31:44	<del>83.5,75.8, 107.1,109.3</del>					81,110	101,138
		Δ,A						250,0.4	,0.1
52	15	20:18:	65.5,75.8, 107.1,109.3	70.0?,75.6, 108.7	57.1, 89.0				
		,A	,0.3	,0.2	,0.2				
53	16	05:07:08.5	22.5,22.9, 33.0	22.1,22.9, 32.4!35.3	12.1,14.2, 14.7!				
		Δ,A	76,0.4	75,2.1	D 20,8/12.5				
54	16	05:28:41.1			48.7,54.1 D 40,A 0.4				
55	16	15:39:50					57,68	51,52 Δt 1.2	
		Δ,A					,0.05	,2.5	
56	16	17:13:16						17,18 Δt 1.1	
		,A						,0.7	
57	16	17:18:49						50,51 Δt 1.2	
								A 0.5	
58	16	17:21:						15,16 Δt 1.4	
								A 0.3	
59	16	17:46:44						46,46 Δt 1.1	
								A 1.1	
60	16	17:47:32						33,34 Δt 1.1	
								A 0.7	



No.	Epicentre	Q	M	
41	34° ?' 119° ?'	D	1	Near Santa Barbara
42	34° ?' 119 ?'	D	1	" " "
43	34 17 118 11			Blast; road construction.
44	34 15 117 15	D	1.5	Arrowhead district, San Bernardino Mts.
45	35 ? 118 ?	D	2.5	Probably northeast of Bakersfield. Pasadena distant 190 km.
46		E	3	To the south; La Jolla distant 200 km.
47	34 ? 119 ?	D	1	Near Santa Barbara.
48	33 56 118 07	B	2.5	Northeast of Downey, Los Angeles County.
49	31 ? 114 ?	D	3	Region of the head of the Gulf of California.
50	34 48 116 28	C	2.5	Between Newberry and Ludlow, Mojave Desert.
51		E	2.5	Central California? Tinemaha distant 250 km.
52		E	3.5	To the south/
53	33 50 117 25	C	2.5	South of Riverside.
54		D	1.5	Riverside distant 40 km.
55	36 13 117 58	C	2	Near Olancho, Owens Valley.
56	" " " "	C	1	" " " "
57	" " " "	C	1	" " " "
58	" " " "	C	1	" " " "
59	" " " "	C	1.5	" " " "
60	" " " "	C	1	" " " "



Local shocks, August 1932



No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
61	16	<del>19:09</del> 19:09:25.8	40.8, 47.5, 50.8	$\Delta t = 9$	30.5, 33.8!				
		$\Delta, A$	95, 0.05	70, 0.05	<del>24</del> 24, 0.8				
62	17	02:16:10.7	19.0, 20.2, 24.9!	17.5, 22.1	18.4, 18.7! 24.0!				
		$\Delta, A$	44, 0.5	33, 2.7	41, 0.8				
63	17	14:16				$\Delta t = 2.0, A 0.8$			
64	17	19:06						417, 79	
								A 0.1	
65	18	03:48:	87, 98.6	89	72				
		, A	, 0.05	, 0.05	, 0.1				
66	18	11:20:17.1	27.7, 35.2!	28.1, 28.7, 36.0!	$\Delta t = 15.0$	56±			
		$\Delta, A$	57, 0.6	60, 0.7	138, 0.2	, 1.1		$\Delta t = 34$	$\Delta t = 22$
67	18	13:35:	4.6, 6.8 8.7	5.2, 7.2				300, 0.1	220?, 0.1
			13?, 0.05	13?, 0.1					
69	19	01:13:10							11, 12 $\Delta t = 1.0$ A 4.5
68	19	01:10							$\Delta t = 10$
70	19	01:21:39						52.4, 70.5	40, 41 $\Delta t = 1.1$
		$\Delta, A$						, 0.05	, 14.1
71-86	19	see list at end							$\Delta t = 1.0$
87	19	05:52:54							55, 56, $\Delta t = 10$ A 5.0
88	19	06:00:							$\Delta t = 1.0$
89	19	06:38:		<del>41</del> 13.8, 37.7		4, 13			
		$\Delta, A$		, 0.05		70, 0.2			
90-92	19	see list at end							$\Delta t = 1.0$
93	19	10:04:20						38.0, 50.2	20.2! 21.1!
		$\Delta, A$						97, 0.1	,
94	19	13:38:39							30.4, 31.6!
95	19	17:53:28.3	53.5, 53.9 72.5, 73.3	$\Delta t = 17.5$	42.7, 52.7, 54.1!		$\Delta t = 2.0$		
		$\Delta, A$	157, 0.3	, 0.3	91, 0.5		, 0.1		
96	19	18:45:12.8	37.8, 56.5!	$\Delta t = 17.5$	27, 38.5				
		$\Delta, A$	157, 0.05	, 0.05	91, 0.1				
97	19	21:37:	36.5, 55.2	53.8	46.3				
		$\Delta, A$	, 0.02	, 0.05	, 0.05				
98	19	21:51:37.7	59.1, 75.6!	58.9, 73.7, 74.5	63, 83.9			70.1, 93.3	53.5, 64.6!
		$\Delta, A$	123, 0.3	, 0.5	153, 0.2		, 0.1	210, 3.1	88,
99	20	01:52:52.5	59.7, 64.8!	59.0, 62.7!	64.4!				
		D, A	40, 0.05	29, 0.5	39, 0.3				
00	20	01:11:			57.5		43.7		
		, A			, 0.1		, 0.3		



No.	Epicentre	Q	M	
61	34°10' 117°15'	C	1.5	Near Arrowhead, San Bernardino County.
62	34 12 117 43	B	2.5	Upper San Dimas Canyon, San Gabriel Mts.
63	34 ? 119 ?	C	1	Near Santa Barbara
64		E	3?	Northern California? Recorded at Tinemaha only.
65		E		To the south.
66	34 23 118 43	C	2.5	Near Camulos, Ventura County.
67	34 17 118 11			Blast; road construction.
68	36 13 117 58	C	1	Near Olancho, Owens Valley.
69	" " " "	C	1.5	" " " "
70	" " " "	C	2	" " " "
71-86	" " " "	C		Near Olancho, Owens Valley. See list at end.
87	" " " "	C	1.5	" " " "
88	" " " "	C	1	" " " "
89	34? 120?	D	2?	Probably west of Santa Barbara.
90-92	36 13 117 58	C		Near Olancho, Owens Valley. See list at end.
93	" " " "	C	2	" " " "
94	" " " "	C	1	" " " "
95	34 35 116 50	C	3	North of the San Bernardino Mts.
96	" " " "	C	2	" " " " " "
97	" " " "	D	1.5	" " " " " Slightly doubtful.
98	<del>35 16 118 04</del> <del>35 20 117 10</del>	C	2.5	Garlock Fault near Cantil, Mojave Desert.
99	34 12 117 44	B	2	San Dimas Canyon, San <sup>Gabriel</sup> <del>Bernardino</del> Mts.
100		E		To the south.



Local shocks, August 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
101	20	01:13:			44		40.8		
		,A			,0.05		,0.2		
102	20	02:14:38.3	63.1,82.7	63.0,80.0	55.1,64.1!				
		△,A	150,0.1	150,0.1	90,0,2		,0.1		
103	20	2300:59							60.1,61.6
									A 0.3
104	21	01:54:06							06.8,08.3
105	21	01:54:35							09.5; A 0.2
106	21	17:41:37.2						61.7	36.2,37.9
								A 0.1	A 2.0
								48.4,	41.8,47.9
								56.3	
		,A						,0.3	,0.4
107	21	20:14:08?						73,120.2,	155
								122.1	
		△,A						450?,0.2	,0.05
108	21	21:25:					62,68,84!		
							A 0.2		
109	22	16:41:				△t 2.3			
						A 1.4			
110	22	19:40:20	48.3,65.0	49.0,68.0		30,32.5			
		△,A	,0.1	,0.1	,0.05	△t 2.5			
						17,4.5			
111	22	19:40:50	82.8,95.8	98.6		60,62+ (△t 2.5)			
		△,A	,0.1	,0.1	,0.05	17,3.2			
112	22	19:47:49	77.7,94,0	79.5,97.6		59,62+			
			,0.02	,0.05		△t 2.5			
						17,1.9			
113	23	02:22:20.3	47.2,66.1!	△t = 17.3	36.4!47.9!				
			68.4!						
		△,A	167,0.4	,0.3	99,0.7		△t = 22.1	7	
							,0.1	,0.05	
114	23	18:21:						20.1!23.5!	32,92
								62.5!68.4!	
		,A						,0.3	,0.1
115	24	00:36:06							7.3,8.8,9.9
									A 0.3
116	24	01:08:38.3	94.0,98.4!	△t = 46				47.6!54.6!	65.0,66.2!
			100.5!142.0!						83.3!
		△,A	363,0.4	,0.4	,0.2	,0.8	,0.1	52,22.5	153,3.9
117	24	04:17:						25.7,27.8,	31,51
								34.9,35.9	
		,A						,0.2	,0.05
118	24	07:29:						47.5,49.6,	
								65.9	
119	24	13:12:						34.9	05.3,12.8
		,A						,0.05	,0.1
120	24	13:40:09.0						38.6,61.9	65
		△,A						188,0.3	200,0.05



No.	Epicentre	Q	M	
101		E		To the south
102	33°18' 116°54'	C	2.5	Elsinore fault zone near Nellie, San Diego Co.
103	36 ? 117 ?	D	1	Near Haiwee
104	36 ? 117 ?	D	1	" "
105	36 ? 117 ?	D	2	" "
106	36 ? 117 ?	D	1.5	Between Tinemaha and Haiwee.
107		E	3.5	To the north. Tinemaha distant 450 km.?
108		E	2	Imperial Valley district? Recorded at La Jolla only.
109	34 ? 119 ?	D	1.5	Santa Barbara district.
110	34 ? 119 ?	D	2	" " "
111	34 ? 119 ?	D	2	" " "
112	34 ? 119 ?	D	1.5	" " "
113	34 22 116 27	B	2.5	Northeast of the San Bernardino Mts.
114		E	3.5	Northern California? Tinemaha distant 350 km?
115	36 ? 117 ?	D	1	Near Haiwee
116	37 20 118 49	C	4	Sierra Nevada west of Bishop
117	37 ? 118 ?	D	1.5	Probably same source as preceding.
118		E		Tinemaha distant 130 km.?
119	37 ?	D	1?	Haiwee region.
120	36 10? 120 20?	E	2.5	Tinemaha distant 188 km. Perhaps near Coalinga.



Local shocks, August 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riveride	S. Barbara	La Jolla	Tinemaha	Haiwee
121	25	05:28:					30.1; A 0.1		
122	25	13:48:				Δt 2.2 K 0.6			
123	25	23:48:						22.2, 26.2! 26.8! A 0.15	
124	25	18:53:48.8	58.4! 65.2!	55, 62.5	54.0, 54.7				
		D, A	53, 0.05	45, 0.1	19, 0.5				
125	26	11:33							11, A 0.1
126	26	17:28:37.1	50.4, 61.0	52.7, 61.9! 64.2!	66, 78				
		Δ, A	83, 0.05	, 0.2	, 0.05				
127	26	18:51:						61.7, 110.3	139.9
		, A						, 0.2	, 0.2
128	26	19:13:				42, 47			
						A 0.3			
129	26	19:40:			58.8		30.0? 38.0! 42.1!		
		, A			, 0.05		, 0.6		
130	27	15:55:45.1/	52.1! 57.1!	59.8					
		Δ, A	39, 0.3	48, 0.1					
31	27	22:32:12						56, 80.4	97
		Δ, A						300, 0.2	, 0.1
132	28	10:35:39.4	50.6, 58.5	49.3! 56.0!	43.1, 45.6				
		D, A	62, 0.2	53, 0.2	20(Δ16), 3.0				
133	28	14:29:49.5	55.8! 58.5! 60.2!	57.5, 62.4, 64.1!					
		D, A	35, 0.4	52, 0.4					
134	28	17:55:12		64				34	17.7, 23.2
		Δ, A		, 0.02				130, 0.3	
135	28	19:00:25.7	59.3, 60.5, 73.1	59, 79	80			49.2! 63.7, 65.4!	32.7! 34.7! 37.4!
		Δ, A	192, 0.2	190, 0.5	, 0.03			130, 0.7	37,
136	28	19:04:22.5						44.7, 61.9	28.0, 33.3
								Δ 127, 0.1A	D42,
137	29	17:57:58	73.7! 77.3! 83.0!	71.6! 81.1!	62.3! 64.9! 65.1!				
		Δ, A	75, 0.15	76, 0.5	13, 5.0				
138	29	18:50:24.8	(41.9), 43.2! 54.7! 55.9!	42.0! 54.8! 56.2!	(30.5) 67 31.7! 36.6!		48.2! 50.0! 66.4!	83, 123	63.8 93.5!
		Δ, A	101, 1.0	95, 4.2	38, 13.0	, 0.6	139, 1.4	345, 0.4	237, 0.5
139	29	21:48:55.3	71.0! 72.0 83.1!	69.6, 79.4	58.9, 61.5				
		Δ, A	95, 0.1	78, 0.3	13,				
40	29	22:22:39.4	50.6, 58.5	51, 59					
		Δ, A	60, 0.05	61, 0.1					



No.	Epicentre	Q	M	
121		E		Small motion at La Jolla only.
122	34° ?' 119° ?'	C	1	Near Santa Barbara
123	37° ?' 118° ?'	D	0.5	Tinezaha district
124	34°00' 117°40'	C	1.5	Chino district, San Bernardino County.
125		E		Small record at Haiwee only.
126	34 ? 118 ?	D	1.5	Northern Los Angeles County.
127		E	3.5	Northern California? Tinemaha distant 450 km.?
128	34 ? 119 ?	D	1.5	Santa Barbara region.
129		D	2	La Jolla distant 60 km.?
130	33 ? 118 ?	D	1.5	Santa Monica Bay district.
131		E	3	Tinezaha distant 300 km.
132	34 06 117 32	B	2	East of Cucamonga, San Bernardino County.
133	34 ? 118 ?	D	1	Santa Monica Bay district.
134	35 55 118 16	C	2	Upper Kern River (South Fork), Sierra Nevada.
135	" " " "	C	2.5	" " " " " "
136	35 53 118 17	C	2	" " " " " "
137	33 55 117 25	C	2.5	Near Arlington, Riverside County.
138	34 05 117 05	B	3.5	San Andreas Fault northeast of Mentone, San Bernardino County. Reported felt.
139	34 08 117 14	B	2	San Andreas Fault east of Arrowhead, San Bernardino Co.
140	34 118	D	1.5	60 km. northwesterly from Pasadena.



Local shocks, August 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
141	29	22:59:45.5	59.6!69.9!	59.0,68.6	51.5,55.6				
		D,A	81,0.05	75,0.03	32,1.4				
142	30	19:53:33.0					45.8,49.1	57,74.0	
		Δ,A					54.9		
							69,1.1	135,0.5	
143	31	02:18:41	44.9!47.5!	47.0!50.6!					
		D,A	22,0.5	28,0.6					
144	31	02:23:35	39.3,42.2						
		D	22,0.03						
145	31	04:25:	29.0,30.5	29.1,31.0					
		A	0.0	0.2					
146	31	09:05:42	45.6,48.3	51.8					
		,A	,0.4	,0.5					
147	31	09:29:12.9	40.9,61.7!	41.5,58.6	30.9,43.0				
		Δ,A	175,0.15	158,0.2	97,0.5				
148	31	12:09:58.2	82.5,101.7, 80		72.2,82.3				
		Δ,A	147,0.1	,0.1	77,0.2				
149	31	13:30:50	54.0,56.9	60.5					
		,A	,0.1	,0.02					
150	31	20:53:25.3	50.0!69.6!	49.0,67.3	37.8,47.9		48.3,65.0		
		Δ,A	150,1.2	141,1.6	77,2.5	,0.4	128,1.5	66.9	9819!103.7
								283,0.3	
1442	31	03:11:36	39.9,32.7	45.7					
			23,						



No.	Epicentre	Q	M	
141	34°11' 117°20'	B	1.5	San Andreas Fault, northwest of Arrowhead.
142	37 20 117 30	C	3	Southern Esmeralda County, Nevada? Location ambiguous.
143	34 ? 118 ?	D	1	Los Angeles district.
144	34 ? 118 ?	D	0	" " "
144a	34 ? 118 ?	D	0.5	" " "
145	34 ? 118 ?	D	0.5	" " "
146	34 ? 118 ?	D	1.5	" " "
147	34 17 116 20	C	2.5	North of Little San Bernardino Mts.
148	33 51 116 35	B	2.5	Near Palm Springs, Riverside County.
149	34 ? 118 ?	D	1	Los Angeles district.
150	33 51 116 35	B	3.5	Near Palm Springs, Riverside County.

Supplementary list. Shocks originating near Olancho, Owens Valley, at 36°13' N., 117°58' W. Times to the minute, and magnitudes. Those starred are also included in the main list above.

~~Supplementary list~~

No.	Date, Aug.	O, P.S.T.	M	No.	Date	P.S.T.	M
56*	16	17:13	2	76	19	01:44	0
57*	16	17:18	1	77	19	01:48	0
58*	16	17:21	1	78	19	01:48	0
59*	16	17:46	1.5	79	19	01:55	1
60*	16	17:47	1	80	19	01:57	0.5
68*	19	01:10	1	81	19	02:09	1
69*	19	01:13	1.5	82	19	02:23	0
70*	19	01:21	2	83	19	02:31	0.5
71	19	01:26	0.5	84	19	02:59	1
72	19	01:26	0	85	19	03:17	0.5
73	19	01:36	1.5	86	19	03:51	0
74	19	01:41	0	87*	20	05:52	1.5
75	19	01:44	0.5	88*	20	06:00	1
				90	20	08:15	1
				91	20	08:16	0.5
				92	20	08:18	1.5

Blasts near Pasadena were recorded August 4, 2 12:00; August 9, 10:53, 12:01; August 18, 19:24.

Blasts near Mt. Wilson: August 8, 11:56; 13, 14:25; 14, 20:08; 18, 11:52; 20, 11:48; 24, 12:08; 27, 23:29; 28, 30, 21:09; 31, 13:29; 31, 13:45.



Local shocks, September 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
1	1	03:41:38.7 Δ,A	49.1,56.5 57,0.1	48.2,54.9 52,0.6	42.2,44.6! 18, 7		79,84 130,0.3		
2	1	05:53:21.8 D,A	25.9!28.8! 23,1.5	28.3,32.1! 30,1.3					
3	1	06:06:12.5 D,A	16.5,19.3 23,0						
4	1	06:24:45.9 D,A	49.7,52.4 21,0	56.0					
5	1	09:54:08.4 D,A	12.5,15.4 23,0						
6	1	10:11:03.9 D,A	08.0,10.9 23,0						
7	1	12:10:30.0 D,A	34.1,37.0 23,0		<del>23,0.1</del>				
8	1	13:20:			15.1; A 0.7				
9	1	14:03:46.0 D,A	50.0,52.8 22,0.3	56.1! ,0.2					
10	1	16:47:19.3 D,A	23.2!26.2! 23,0.1	29.7! ,0.05					
11	1	17:07:		23.5,25.6 A 0.8					
12	1	18:22:05.4 D,A	09.4!12.2! 22,0.2	15.6! ,0.1					
13	1	20:29:37.1 Δ,A	74.8!104.5, 106 253,0.1	103.8 ,0.2	65.4,86.6 159, <del>2</del> 10.1	53.37 65.2,69.3 90,0.7			
14	2	01:27:43.8 D,A	47.8,50.6 22,0.1	53.7 ,0.05					
15	2	11:18: ,A	52.4?66.9! ,0.05	61.0?69.0! 69.9! ,0.2					
16	2	16:13:27.5 Δ,A	56.5!57.5 79.4! 184,0.5	57.0! 77.9! 186,0.8	47.3, 60.0! 116,1.2	119.7 322,0.4	40.0! 48.6! 68,9		87.0 128.7 354,0.9
17	2	17:09:59.8 Δ,A						67.8,90.3 100,0.3	114.0, 114.4! 195,0.05
18	2	20:55:0.0 D,A	04.0,06.7 22,0						
19	2	22:01:23.4 D,A	27.5,30.4 23,0						
20	2	23:11:17.6 Δ,A	46.8,68.5 184,0.03	68.4! 186,0.1	50.0! 116,0.2		38.6! 68,0.7		



Typed, July 1953,  
from CID file ✓

No.	Epicentre	Q	M	
1	33°55' 117°35'	B	2.5	(Shallow) Near Santa Ana River, west of Riverside
2				
3				
4				
5				
6				
7				
8				
9				
10				Near Mt. Wilson
11				Near Mt. Wilson
12				
13	31°00' 116°20'	D	3	Agua Caliente Fault? (unusual depth?)
14				
15				
16	33°06' 116°36'	B	3.5	Elsinore Fault near Julian
17	38°00' 118°00'	D	2	Southern Esmeralda to Nevada
18				
19				
20	33°06' 116°36'	B	2.5	Elsinore Fault near Julian



LOCAL shocks, September 1932



No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
21	3	00:06:03.4	07.4, 10.2						
		D, A	22, 0						
22	3	05:43:30						59.1	31.8, 33.3
		Δ, A						94, 0.05	, 0.4
23	3	08:44;	06.7, 08.1! 15.5	13.3, 14.8, 16.3					
		, A							
24	3	14:59:	02.0, 19.2, 25.5	12, 17.3					
		, A							
25	3	15:56:33.2	50.4, 52.0! 62.5!	50.7, 51.0 59.0!	53.7				
		Δ, A	94, 0.2	93?, 0.2	116?, 0.2				
26	3	18:48:			52.6, 53.9, 61.9, 64.9, , 1.3				
27	4	16:16:31.6	56.9, 77.0	56.6, 75.7	45.6! 57.3!		56.3		
		Δ, A	155, 0.1	152, 0.2	92, 0.3		82, 0.5		
28	4	18:26:08.0	<del>56.9, 77.0</del> <del>56.9</del>					41.1, 67.0, 67.7	44, 71.8, 73.8
		Δ, A						217, 0.7	236, 0.2
29	4	21:48:29						76, 112.5	119.2
		Δ, A						330, 0.3	350, 0.05
30	5	00:32:40.9	69.4! 89.0	69.1! 91.2!	57.3, 69.1! 71.7!		59, 71 (Δt 11.3)		
		Δ, A	180, 0.2	175, 0.3	92, 0.6		88, 0.8		
31	5	03:55:52.2	85.8, 105.3!					73.8! 84.6! 90.7!	58.6! 60.3, 64.1!
		Δ, A	189, 0					126, 0.2	33, 0.14
32	5	05:34:12.6	23.4! 31.1! ...	24.8! 26.2, 32.5! 36.0	34.7, 49.7	54.7? ... 43.4!			47.2! 69.5
		Δ, A	58, 0.7	65, 0.8	121, 0.2	103, 0.7			192, 0.1
33	5	06:03:22.2	53.4! 78.2	<del>...</del>	42.5, 57.3		52!		
		Δ, A	202, 0.05		112, 0.2		100, 0.7		
34	5	06:48:57.7	68.2, 75.6	77.6					
		Δ, A	56, 0.1	65, 0.1					
35	5	09:54						66.2, 102.8	
		Δ, A						335, 0.6	
36	6	11:21:05.1	27.6, 28.6! 45.0! 47.7!	27.0! 44.9!	23.5! 38.3, 39.4, 40.3!	43, 51.8	44, 72.2, 72.6!	49.0	31.7 46.8!
		Δ, A	134, 0.4	130, 0.6	108, 0.7	248, 0.3	251, 0.4	245, 0.1	165, 0.1
37	6	14:44:	19.3, 27.5 A 0.05	20.8, 27.9 A 0.3					
		Δ, A	90, 3, 94.9, 137.2! 137.8!	92, 137.7	81, 123.0		66.7, 67.8, 94.2		
38	6	15:04:30.6							
		Δ, A	428, 0.4	428, 0.5	355, 0.4		240, 1.8		
39	6	18:47:16.8						37.4! 39.0 52.1! 52.8! 53.1!	51.3! 77.0!
		Δ, A					107, 0.4		217, 0.4
40	6	20:15:18	60.2, 93.3, 103.0		58.0, 82.6, 86.0, 89.2		40.3, 56.6! 58.0!		
		Δ, A	290, 0.1		220, 0.4		136, 2.7		



No.	Epicentre	Q	M	
21				
22	36°15' 118°00'	C	1	Near Olancha
23				Peculiar. Artificial?
24				
25				Pasadena region
26				At Riverside only. Probably two nearby shocks.
27	33°25' 116°35'	C	2.5	San Jacinto Fault zone
28	36°25' 120°30'	C	3	Near Idria, San Benito Co.
29	36°35' 121°45'	D	3.5	Monterey Bay district
30	33°25' 116°30'	C	3	(Shallow?) San Jacinto Fault
31	35°55' 118°11'	C	2	South Fork, Kern River
32	34°40' 118°40'	C	2.5	Northwest of Castaic
33	33°23' 116°25'	C	2.5	San Jacinto Fault zone
34	34°40' 118°40'	C	1.5	Northwest of Castaic
35		C	3.5	$\Delta=335\text{Km}$ (Tinemaha). Monterey Bay district.
36	34°56' 117°09'	C	3	West of Barstow
37	34°.7 118°.7	D	1	Northwestern L. A. County
38	31° 7	D	4	$\Delta$ (Pasadena)=430. Lower California.
39	38°00' 118°33'	C	3	East of Mono Lake
40	32°30' 115°50'	C	3.5	Southwest of, Calexico



Local shocks, September 1932

No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S.Barbara	La Jolla	Tinemaha	Haiwee
41	6	23:08:22.1 Δ,A	61.5,101.9 268,0.05	102.1 270,0.1	60786.9, 93.0!		43.4,58.3, 61.3 118,1.5		
42	7	09:44:29						78.0!116.5!	121?
42a	7	Δ,A						345,0.3	,01
43	8	02:36:08						11.9,15.1	
								Δ 20,A 0.9	
44	8	18:29:46.7 Δ,A	67.9,82.5 117,0.1	66.7,67.9 81.0 113,0.4	56.6,57.0, 63.6 53,1.9		83.9,86.4		
45	9	06:33:50.7	55.2,55.0 D14,A 0.8	54.8,58.1 D26,0.4			128,0.1		
46	9	09:30:53.8						65.7,74.1	47.4,49.8
47x	9	16:59:55.1	59.1,61.8 D 23,A 0.1					A 0.1	A 2
48	9	18:53:						62.4	
								A 0.6	
49	9	20:18:02.2 Δ,A	11.9,18.8 52,0.4	11.0,16.6 41,1.4	6.8,9.9 19,6		59.4 180,0.05		
50	9	21:48:						67.3	
51	10	01:57:29.8 Δ,A	79.1!80.3, 97,80.8!	80.1,81.6, 110.5,119.7	73.9,74.7, 76.6,83.9!	102,106.2, 160.0,163.8	1257.3,58.2, 61.0!74.0!	118.8, 206.4	105.6,107.6, 171.6,177.0!
			345,1.1	,0.9	275?,2.3	,0.5	172,25	,0.5	,0.9
52	10	21:23:14.6 Δ,A	66?103.1, 107.4 345,0.3	103.8 350,0.2	86.7 275,0.2		41.3,61.3 165,0.7		
53	11	13:14:			111.6		50,86.1		---
54	11	17:58:40.6 D,A	45.3!48.6! 26,0.3	50.7!69 ,0.1					---
55	11	18:07:52.6						54.6!55.5, 56.0!	---
								D 11,A 0.6	
56	12	11:16:22.2 Δ,A	46.3,47.6! 67.4!	46.8!63.6!	35.5!44.9!		45.2,63.5! 64.1!		---
			146,0.3	132,0.8	72,0.9		136,1.7		
57	13	00:57:14.6 Δ,A	66.4!107.0!	107.6!	90.2		44.6,61.4, 64.3		---
			365,0.1	353,0.3	290,0.3		174,1.7		
58	13	06:03: ,A	33,51.6! ,0.02	51.1 ,0.3	55.5 ,0.05				---
59	13	06:51:					139! A 0.2		---
60	13	09:00: , A		42.5! ,0.05,	23.0!24.8! ,0.4				---



No.	Epicenter	Q	M	
41	32°00' ? 117°00' ?	D	3	Lower California
42		E	3.5	Δ(Tinemaha)=345 km. Perhaps Monterey Bay region.
42a	34 50 119 30	C	2	Cuyama River, N of Santa Barbara
43		D	1	20 km eastward from Tinemaha
44	34 02 116 55	C	2.5	North of Banning, probably San Andreas Fault
45		D	1	Los Angeles district
46		C	1	Near Haiwee
47				
48		E		Recorded only at Tinemaha. N. California?
49	34 00 ? 117 37	C	2.5	Near Ontario
50				Recorded only at Tinemaha
51	32 00 115 40	C	4.5	Lower California —
52	32 00 115 40	C	3.5	" "
53				Probably same as preceding
54			1	Los Angeles district
55		C	0.5	Near Tinemaha
56	34 02 116 38	B	3	Mill Creek Fault N of Whitewater
57	31°.8 116°.0	C	3.5	Lower California
58		G		
59		E		Recorded at La Jolla only
60				Near Riverside, probably a blast



Local shocks, September 1932



No.	Date	P.S.T.	Pasadena	Mt. Wilson	Riverside	S. Barbara	La Jolla	Tinemaha	Haiwee
61	14	06:27:00.1	05.5!07.1	11.6!,16					
			09.3!12.7						
		D,A	30,0.3	37,0.2					
62	14	06:34:03.1	08.4!10.1!	14.6!19.6					
			12.2!16.1!						
		D,A	30,0.02	37,0.1					
63	14	17:38:50.5							
					54.5!57.3!				
64	14	18:20:			D 22,A 1.2				
							48		
65	14	22:28:08.1	12.2!15.1!				A 0.1		
			D 23,A 0.02						
66	15	00:19:05.2	12.3!17.3!	10.8!14.7!	19.1,28.5	31 .	39.0,55.2,		
							60.4		
		Δ,A	31,12	19,28	68,6.0	,1.5	188,1.2		
67	15	<del>01:59:55</del> 01:59:55						93.6,124.1	
								Δ 260,A 0.3	
68	16	02:35:45.7	72.1	69.0,71.6!	49.0,52.0				
		D,A	86,0.05	73,0.1	24,0.4				
69	16	05:16:56.6	58.0!59.0!	63.4					
		D,A	8,0.3	22,0.2					
70	16	14:07:54.7	180.1,282.5	181.3		157.9,249.3		158,3	
				286.2					
		Δ,A	950,0.2	,0.1		,0.5		,0.6	
71	16	15:17:17				19,21			
						Δt 1.8			
						A 0.05			
72	16	15:42:						46.6	
								A 0.1	
73	16	23:24:59.5						94.0! <del>119!</del>	
		Δ,A						228,0.2	
74	17	05:02:12.2	14.2!15.6!	19.3!					
		D,A	11,0.8	23,0.3					
75	18	09:08:36.0						44.8,55.1	
		Δ,A						47,1.1	
76	18	09:10:36.0						44.5,50.5	
		Δ,A						45,0.6	
77	18	09:19:11				15,18(Δt 2.9)			
						D 23,A 2.0			
78	18	13:52:						34,A 0.4	
79	18	19:32:	45.7?52.0!	55.6,59.6!					
		,A	,0.05	,0.1					
80	18	21:22;	15.8	16.6?24.3!					
		,A	,0.02	,0.1					



No.	Epicenter	Q	M	
61		D	1	Los Angeles district
62		D	2	" " "
63		C	1.5	Near Riverside
64		E		Tinemaha only
65		D	0	L. A. district
66	34°23' 118°01'	B	3.5	(h=25km) Near Mt. Pacifico, San Gabriel Mts.
67				Δ(Tinemaha) = 260
68	33? 117?	D		South of Riverside
69		D	0.5	L. A. district. Blast??
70		D	4	Eureka (Calif.) district
71		C	1	Near Santa Barbara
72		C		Recorded at T only
73		E	2.5	Δ (Tinemaha) = 2.5
74		D	1	Los Angeles district (Blast?)
75		D	2.5	Tinemaha distant 47 km
76		C	2	" " 45 km
77	34°30' 119°40'	C	1.5	North of Santa Barbara
78		E		La Jolla only
79		C	0.5	Los Angeles district
80		E	17	" " "

September, 1932 continued below

Date					
9-18, 22:41	33 45	117 15	C 2		Near Perris, Riverside County
19, 1:06	30°.5	114	D 3.5		Gulf of California
19, 1:59	30°.5	114	D 4	" " "	
19, 3:38			E 3?		Probably same as preceding
19, 6:41	30°.5	114	D 3.5		Gulf of California
19, 6:44	30	114	D 4	" " "	
19, 8:41			E 3.5	" " "	
19, 10:27	31	114	C 3.5	" " "	
19, 10:50	31	114	D 3.5	" " "	
19, 11:06			C 2		Near La Jolla
19, 11:31	31	114	D 3.5		Gulf of California
19, 17:26					
19, 21:16					
19, 23:15					
20, 8:22	32 00±	115 40 <sup>1</sup> / <sub>2</sub>	D 4		Lower California
20, 10:35					
20, 19:34			C 2.5		Δ(Tinemaha) = 35



Time	Location	Magnitude	Depth (km)	Station
1970-01-01 00:00	California	2.5	10	STAN
1970-01-01 00:05	California	2.8	15	STAN
1970-01-01 00:10	California	2.2	8	STAN
1970-01-01 00:15	California	2.6	12	STAN
1970-01-01 00:20	California	2.4	10	STAN
1970-01-01 00:25	California	2.7	14	STAN
1970-01-01 00:30	California	2.3	9	STAN
1970-01-01 00:35	California	2.5	11	STAN
1970-01-01 00:40	California	2.6	13	STAN
1970-01-01 00:45	California	2.4	10	STAN
1970-01-01 00:50	California	2.7	14	STAN
1970-01-01 00:55	California	2.3	9	STAN
1970-01-01 01:00	California	2.5	11	STAN
1970-01-01 01:05	California	2.6	13	STAN
1970-01-01 01:10	California	2.4	10	STAN
1970-01-01 01:15	California	2.7	14	STAN
1970-01-01 01:20	California	2.3	9	STAN
1970-01-01 01:25	California	2.5	11	STAN
1970-01-01 01:30	California	2.6	13	STAN
1970-01-01 01:35	California	2.4	10	STAN
1970-01-01 01:40	California	2.7	14	STAN
1970-01-01 01:45	California	2.3	9	STAN
1970-01-01 01:50	California	2.5	11	STAN
1970-01-01 01:55	California	2.6	13	STAN
1970-01-01 02:00	California	2.4	10	STAN
1970-01-01 02:05	California	2.7	14	STAN
1970-01-01 02:10	California	2.3	9	STAN
1970-01-01 02:15	California	2.5	11	STAN
1970-01-01 02:20	California	2.6	13	STAN
1970-01-01 02:25	California	2.4	10	STAN
1970-01-01 02:30	California	2.7	14	STAN
1970-01-01 02:35	California	2.3	9	STAN
1970-01-01 02:40	California	2.5	11	STAN
1970-01-01 02:45	California	2.6	13	STAN
1970-01-01 02:50	California	2.4	10	STAN
1970-01-01 02:55	California	2.7	14	STAN
1970-01-01 03:00	California	2.3	9	STAN
1970-01-01 03:05	California	2.5	11	STAN
1970-01-01 03:10	California	2.6	13	STAN
1970-01-01 03:15	California	2.4	10	STAN
1970-01-01 03:20	California	2.7	14	STAN
1970-01-01 03:25	California	2.3	9	STAN
1970-01-01 03:30	California	2.5	11	STAN
1970-01-01 03:35	California	2.6	13	STAN
1970-01-01 03:40	California	2.4	10	STAN
1970-01-01 03:45	California	2.7	14	STAN
1970-01-01 03:50	California	2.3	9	STAN
1970-01-01 03:55	California	2.5	11	STAN
1970-01-01 04:00	California	2.6	13	STAN
1970-01-01 04:05	California	2.4	10	STAN
1970-01-01 04:10	California	2.7	14	STAN
1970-01-01 04:15	California	2.3	9	STAN
1970-01-01 04:20	California	2.5	11	STAN
1970-01-01 04:25	California	2.6	13	STAN
1970-01-01 04:30	California	2.4	10	STAN
1970-01-01 04:35	California	2.7	14	STAN
1970-01-01 04:40	California	2.3	9	STAN
1970-01-01 04:45	California	2.5	11	STAN
1970-01-01 04:50	California	2.6	13	STAN
1970-01-01 04:55	California	2.4	10	STAN
1970-01-01 05:00	California	2.7	14	STAN



Local shocks, September, 1932 (cont.)

Date	Epicenter	Q	M	
Sept. 21, 6:36				Δ (La Jolla) = 200 km? to the south
21, 7:41				
21, 8:04				Δ (La Jolla) = 200 km?
21, 14:37				
21, 15:17				
22, 0:41				Gulf of California?
22, 3:47		E	3.5	Δ(Tinemaha) = 320?
22, 11:34	32°55' 118°55'	C	2.5	Off San Clemente Island. Location ambiguous.
22, 12:52	33 10 116 35	C	2.5	Agua Caliente Fault zone
22, 16:05		C	1	Near Santa Barbara
22, 16:06		C	1	" " "
22, 19:17		D	2	Tinemaha distance 58 km
22, 20:47		C		Recorded only at Tinemaha
23, 10:18				
23, 16:51		D	0.5	Near Santa Barbara
23, 17:32				Pasadena and Mt. Wilson only. artificial?
23, 18:23		E		Recorded at La Jolla only
23, 22:38	34 02 116 55	B	3	San Andreas Fault near Oak Glen
23, 23:58		D	1	Whittier district
24, 00:54		D	1.5	Δ (Tinemaha) = 52
24, 01:22	35 10 118 27	D	2	Tehachapi district
24, 01:50		D	1	Near Haiwee
24, 01:51	34 05 117 32	C	2.5	Southeast of Cucamonga
24, 3:03		C	0	Near Pasadena
24, 13:22		E	3	Central California? Tinemaha distance 295 km.
25, 3:26		D	2.5	Tinemaha distance 225 km
25, 3:37		D	1.5	" " 52 km
26, 4:38		D	0.5	" " 32 km
27, 6:16		D	3	Central California? Tinemaha distance 195 km.
27, 6:41		D	1.5	Tinemaha distance 32 km
27, 15:22		E		Small motion recorded only at La Jolla
27, 23:29		C	0.5	Near Haiwee
29, 3:16		D	3	Tinemaha distance 100 km
29, 5:16		D		Small motion recorded at La Jolla only
29, 7:19		E		To the south. Small motion Riverside and La Jolla only.
29, 7:32		E	3.5	Tinemaha distant 345 km
29, 14:26	37 13 118 25	B	±	Near Big Pine



Local shocks, September, 1932 (cont.)

Date	Epicenter	Q	M
29,19:00		D	1 Tinemaha distant 29 km.
29,20:37		E	2.5? Small motion at La Jolla only. $\Delta = 130$ km?
29,20:52		D	3 Lower California
29,22:36		E	3 La Jolla distant 190 km
30,00:04			Small motion at Tinemaha only. Teleseism??
30, 3:32		D	2.5 $\Delta$ (Tinemaha) = 124
30,18:35		E	Small motion at Tinemaha only
30,23:59		D	2 La Jolla distant 68 km



Rough check list, local shocks, October 1932  
(includes only larger or locatable shocks; magnitudes estimated)

Oct. 1	20:48.	San Jacinto Fault near Clark Lake (2517).	M 3
Oct. 2	08:23	" " " "	M 3
Oct. 4	04:22	Near Olancho (T 0213)	M 1
Oct. 7	23:47	Southwest of El Centro (3229)	M 3.5
Oct. 8	23:56	Ditto (189)	M 3
Several other small shocks from same source (?)			
Oct 8	11:42	Near Riverside (1202)	M 2
Oct. 8	11:55	Southwest of El Centro (3227)	M 3
Oct. 8	13:16	" " (3227)	M 3.5
Oct. 8	13:31	" " "	M 3
Oct. 8	15:25	" " "	M 3
Oct. 8	15:39	" " "	M 3
Oct. 8	18:20	" " "	M 3
Oct. 8	20:34	" " "	M 3.5
Oct. 9	14:51	" " "	M 4.5
Oct. 9	14:52	" " "	M 3
Oct. 9	15:45	" " "	M 4
Oct. 9	17:29	" " "	M 4
Oct. 9	19:36	" " "	M 3
Oct. 9	22:35	" " "	M 3
Oct. 9	23:45	" " "	M 3
and numerous smaller shocks Oct. 9-10			
Oct. 10	11:53	" " "	M 3.5
	12:44	" " "	M 3.5
	12:39	" " "	M 3
	13:08	" " "	M 3
Oct. 10	15:12	San Jacinto Fault (2615)	M 3
Oct. 10	23:12	South of Imperial Valley (3522)	M 3
Oct. 11	12:43	Haiwee district (T 1602)	M 2.5
Oct. 13	08:25	Agua Caliente Fault (?) (2213)	M 2.5
Oct. 13	08:41	Ditto? " ?	M 2
Oct. 13	09:52	Head of Gulf of California? (3931)	M 4.5
Oct. 14	07:09	Probably Sierra (T0619)	M 2.5
Oct. 14	07:49	South of Imperial Valley (3728)	M 3.5
Oct. 14	19:44	Near Haiwee (T1702)	M 2
Oct. 16	06:17	Monterey Bay region	M 4.5
Oct. 17	07:35	San Jacinto Fault (Superst. Mts. (2717)	M 3
Oct. 18-19		Group of small shocks, S-P Haiwee 1.8	
Oct. 18	19:20	Corona region (R out of order) (07057)	M 3
Oct. 20	01:20	Near head of Gulf of California (4134)	M 3.5









Check list, November 1932

(Alphabetical order of dates)

Date	Time	Location	Magnitude	Notes
Nov. 1	08:09	Imperial Valley region	M 3.5	
Nov. 3	10:56	Santa Cruz Mountains (?)	M 4.5	
Nov. 4	04:02	Probably San Andreas Fault near Beaumont	M 1.5	(1406)
Nov. 5	17:00	Imperial Valley region	M 2.5	
Nov. 6	00:56	Elsinore fault southeast of Nellie	M 3.5	(2315)
Nov. 9	12:55	Santa Barbara district	M 2.5	
Nov. 11	06:06	Imperial Valley region	M 3.5	
Nov. 12	01:44	Reported felt in Salt Lake City	M 5.0	
Nov. 13	18:42	Cajon Pass	M 3.0	(0804)
Nov. 14	09:09	Near Clearwater (?)	M 3.5	(0307)
Nov. 16	02:47	Near San Jacinto	M 3.0	(1607)
Nov. 16	02:27	Santa Cruz Mts. (?)	M 4.5	
Nov. 16	10:52	Apparently near Monterey Park. Felt in Pasadena	M 3.5	(0308)
Nov. 19	10:06	Near Clancha	M 2.0	(1102)
Nov. 20	03:56	San Jacinto Fault near Clark Lake (?)	M 2.0	
Nov. 24	05:48	East of Ludlow	M 3.0	(2415)
Nov. 25	14:46	Imperial Valley district	M 3.5	
Nov. 25	20:28	"	M 3.5	(3222)
Nov. 25	23:16	San Adreas fault west of Tejon Pass	M 2.5	(1422)
Nov. 27	00:20	Between Riverside and San Bernardino	M 2.0	(1102)
Nov. 28	15:29	Newhall region	M 3.0	(0611)
Nov. 29	12:44	San Andreas fault near Mentone (?)	M 2.0	(1806)
Nov. 29	22:44	Nprtheast of San Bernardino Mountains	M 2.5	(2012)
Dec. 28	19:08	Near Monterey Pass	M 3.0	(1102)
Dec. 28	08:18	East Valley district	M 3.0	(1808)
Dec. 28	21:07	Large Nevada after shock	M 3.0	
Dec. 28	08:58	Northeast of San Clemente Island	M 2.5	(1816)
Dec. 29	11:31	San Jacinto fault near Separation Mt.	M 3.0	(1817)
Dec. 29	21:18	Near the head of the Gulf of California	M 4.0	(1818)
Dec. 30	12:18	Near San Clemente Island	M 3.0	(1824)
Dec. 31	06:34	Near the state line N.E. of Tennessee	M 3.0	(1819)



Check list, December 1932

(After Dec. 20, Nevada shocks not listed)



Date	Time	Location	Notes	Magnitude
Dec. 2	02:54	Agua Caliente fault near Verruga??		M 3
Dec. 2	21:37	San Bernardino Mts.	(1811?)	M 2.5
Dec. 3	04:17	Santa Monica Bay	(0614)	M 3
Dec. 3	13:39	Lockwood Valley	(1220)	M 3
Dec. 6	10:07	Near Clearwater?? Reported from Huntington Beach	(0410)	M 3
Dec. 6	13:28	East of Cajon Pass?	(1305)	M 2.5
Dec. 7	23:34	South of Imperial Valley	(3732)	M 4
Dec. 9	05:04	San Jacinto Fault, Coahuila Valley	(1708)	M 3.5
Dec. 9	10:11	Near Buena Vista Lake	(19--)	M 3
Dec. 9	16:15	San Pedro district?	(0714?)	M 2.5
Dec. 10	23:26	S-P Pasadena 3.1, MW 2.5		M 1
Dec. 10	23:49	Near Riverside	(1102)	M 1.5
Dec. 11	16:20	Monterey Bay region (?)		M 4
Dec. 14	11:13	San Pedro Channel	(0711)	M 3
Dec. 14	11:16	" " "	(0711)	M 3
Dec. 16	20:37	Region of San Clemente Island (S-P: P 16, R 18)		M 3.5
Dec. 16	23:08	Monterey Bay region or more southerly		M 3.5
Dec. 16	23:19	S-P: Pasadena, 59.6; Tinemaha, 22.3. Nevada. Foreshock?		M 4.5
Dec. 20	00:14	Ludlow region	(2224?)	M 3
Dec. 20	03:31	Northern California?		M 4.5
Dec. 20	22:10	Major Nevada earthquake		M 7.5
Dec. 22	13:27	South of Barstow	(1610)	M 3.5
Dec. 22	13:42	" (1108)		M 3
Dec. 23	19:05	Near Morongo Pass	(2011)	M 3.5
Dec. 25	06:15	Bear Valley district	(1808)	M 2.5
Dec. 25	21:03	Large Nevada aftershock		M 5 + )
Dec. 26	05:55	Northeast of San Clemente Island	(1616)	M 2.5
Dec. 29	11:31	San Jacinto Fault near Supersition Mts.	(2617)	M 3.5
Dec. 29	21:15	Near the head of the Gulf of California	(4132)	M 4
Dec. 30	13:15	Near San Clemente Island	(2224)	M 3
Dec. 31	06:34	Near the state line N.E. of Tinemaha	(T 0718)	M 3.5