FLORISSANT

SEISMOGRAPHIC STATION, ST. LOUIS UNIVERSITY, ST. LOUIS, MO., U. S. A.

Three Galitzin-Wilip, two Wood-Anderson short-period seismographs. Shortt synchronome clock

Bulletin for January
1933

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
1	January 5	I	iP_Z	2 5 05	G-W	$\Delta = 68.^{o}3$
			i_Z	2 6 45	G-W	
			i_Z	2 7 23	G-W	
			iS_E	2 14 13	G-W	
			L_E	2 22 8	G-W	
			F	4 33 ±		
2	January 9	III	eP_Z	10 35 44	(Small G-W	Appears to be a deep focus earthquake. the phases were identified by means of F.J. Scrase's Tables. A depth of 400± km was assumed for this quake. The agreement is quite satisfactory Δ=102° Epic. 11°S. 170°E.
			iP_Z	10 35 48	p Large G-W	
			ipP_Z	10 37 14	S (small G-W	
			eP^1	10 39 27	surface G-W	
			ePR_1EZ	10 39 48	waves.) G-W	
			$iS_c\ P_{EZ}$	10 40 28	G-W	
			iP_eS_{EZ}	10 40 50	G-W	
			$ipPR_{1Z}$	10 41 26	G-W	
			$esPR_{1Z}$	10 41 50	G-W	
			ePR_{2Z}	10 42 56	G-W	
			$iS_cP_cS_E$	10 45 44	G-W	
			iS_E	10 46 57	G-W	
			iSP_{EZ}	10 48 12	G-W	
			EPS_E	10 48 34	G-W	
			iSR_1?	10 53 40	G-W	
			$isSR_1$	10 56 30	G-W	
			Subsequesnt phases are obscured by the next quake.			
3	January 9	III	iP_{EZ}	10 50 14	G-W	An earthquake of probably a very deep focus. Δ - 74°.
			iP_eP	10 50 40	G-W	
			ipP_{EZ}	10 52 06	G-W	
			isP	10 52 42	G-W	
			iPR_{1Z}	10 53 35	G-W	
			iS_E	10 59 06	G-W	
			The Land M waves coincide with those of previous quake.			
			F	13 10 ±		

			Phase	G.M. Time h. m. s.	Instruments	Remarks
4	January 13	Beginning lost in change of film.				
			M	16 45 30		
			F	17 30 ±		
5	January 17	I	Clock out of order			
6	January 20	I	Clock out of order			
7	January 20	I	Clock out of order			
8	January 24	I	iP_{EZ}	4 02 37	G-W	
			$e?_E$	4 08 34	G-W	
			e_E	4 9 51	G-W	
			e_E	4 12 00	G-W	
			i_E	4 17 10	G-W	
			i	4 17 54	G-W	
			L	4 34 10	G-W	
			F	6 20 ±		
9	January 25	I	e_V	2 11 40	G-W	
			e_V	2 20 42	G-W	
			e_V	2 28 52	G-W	
			L	2 47 5	G-W	
			F	3 45 ±		
10	January 27	I	i_E	19 56 8	G-W	
			i_E	19 59 30	G-W	
			F	20 25 ±		
11	January 29	III	EP_{E-Z}	13 56 7	G-W	
			iPR_{1E}	14 00 50	G-W	
			$i?_{EZ}$	14 07 12	G-W	
			$i?_Z$	14 08 25	G-W	
			iPS_E	14 10 30	G-W	
			i_Z	14 15 31	G-W	
			iSR_1	14 16 35	G-W	
			$i?_Z$	14 20 01	G-W	
			iSR_2	14 20 26	G-W	
			$i?_E$	14 24 54	G-W	

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
11	January 29	III	M F	14 39 36 18 45 [illegible]	G-W	
12	January 29	I	E_E E_E F	14 21 22 14 22 23 Lost in preceding quake	G-W G-W	

Besides the above, seismic action was recorded as follows: 2d. 12.3h-12.8h.: 18d. 7.6h.-7.8h.: 25d. 10.9h.-11.1h.: 25d. 23.8h.-23.9h.: 30d. 5.1h.-5.9h.: 9.1h.-1.6h.: 31d. 2.3h.-s.4h.: 31d. 5.6h.-6.2h.

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Three Galitzin-Wilip, two Wood-Anderson short-period seismographs, Shortt synchronome clock

Lat. 38° 48.1 N. Long. 90° 22.2 W. 160 m.

BULLETIN FOR 1932

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
13	February 3 No. 1	III	ePE_{NZ}	06 21 01	G-W	O=06h 15m 51' G. M. T. Δ = 23°.1 Epic. 19°.2 N. 76°W. South of Santiago, Cuba.
			iPE_{NZ}	06 21 06	G-W	
			iPR_{1Z}	06 21 26	G-W	
			iPR_{2Z}	06 21 36	G-W	
			ePR_{3Z}	06 21 39	G-W	
			$i?_{Z}$	06 24 19	G-W	
			$iP_{C}P_{E}$	06 24 46	G-W	
			iS_{EN}	06 25 10	G-W	
			iSR_{1N}	06 26 08	G-W	
			iSR_{2N}	06 26 21	G-W	
			iSR_{2N}	06 26 30	G-W	
			$i?_{EN}$	06 27 10	G-W	
			L	06 27 40	G-W	
			$iP_{C}SS$ P	06 28 37	G-W	
			M	06 30 10	G-W	
			$eS_{C}S$	06 32 00	G-W	
			$iP_{E}SS_{E}P$	06 40 32	G-W	
			W_{2}	09 10 27	G-W	
			F	09 20 ±		
14	February 3 No. 2	I	e_{E}	09 24 40	W-A	
			End covered by next quake			
15	February 3 No. 3	I	e	09 46 45		
			F	09 50 ±		
			Y			
16	February 3 No. 4	II	iP_{E}	12 41 39	G-W	Δ = 23° after shock.
			ePR_{1N}	12 42 06	G-W	
			ePR_{2}	12 42 13	G-W	
			iS_{E}	12 45 47	G-W	
			L	12 48 07	G-W	
			F	13 04 ±		

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
17	February 5	I	i_{EZ}	3 36 37	G–W	
			i_{EZ}	3 41 13	G–W	
			M	8 42 35	G–W	
			F	8 47 ±		
18	February 16	III	eP_Z	14 2 34	G–W	O= $13^h48^m50^s$
			e_Z	14 6 30	G–W	Δ= 97°7
			ePR_{1Z}	14 6 43	G–W	Epic. 17°7 S. 180°
			$iS_CP_CS_N$	14 13 10	G–W	Fiji Islands
			iS_N	14 14 5	G–W	
			iPS_N	14 15 12	G–W	
			ePPS	14 16 13	G–W	
			$iP_CSS_CP_N$	14 17 03	G–W	
			eSR_{1E}	14 20 58	G–W	
			$ePPPS_E$	14 21 06	G–W	
			eSR_{2E}	14 25 15	G–W	
			eSR_{3E}	14 28 24	G–W	
			iL	14 34 50	G–W	
			M_1	14 42 00	G–W	
			M_2	14 51 10	G–W	
			F	15 10 ±		
19	February 17 No. 1	I	E_Z	00 2 18	G–W	
			eL	00 19 8	G–W	
			M	00 38 00	G–W	
			F	1 15 ±		
20	February 17 No. 2	I	iP_E	16 13 08	G–W	S–P = 31°1
			iS_E	16 18 20	G–W	Epic. 13°N. 71°W.
			eL	16 20 33	G–W	
			End lost in change of film.			
21	February 23	III	i_Z	00 33 47	G–W	Deep quake.
			i_Z	00 34 02	G–W	
			i_Z	00 35 12	G–W	
			i_Z	00 36 12	G–W	
			i	00 37 2	G–W	

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
21	February 23 continued	III	i_Z	00 38 15	G-W	
			i_Z	00 39 20	G-W	
			i_{EN}	00 43 27	G-W	
			i_{EN}	00 43 47	G-W	
			i_{EN}	00 45 20	G-W	
			i_E	00 46 00	G-W	
			i_{ENZ}	00 50 02	G-W	
			iL_E	01 05 02	G-W	
			M	01 09 48	G-W	
			F	02 48 ±		
22	February 23	I	e_Z	20 46 00		
			eL	21 03 35		
			M	21 09 45		
			F	21 47 ±		

Seismic action was recorded on the following day.
February 5d. 15.75h. 1919h., 5d. 1919h-20.1h, 12d. 1.4h-2.7h., 13d. 3.5h-8.6h, 13d. 19.3h-19.5h, 14d. 0.1h-0.2., 14d 2.5h-2.6h, 14d. 12.6h-.3.3h, 16d. 13.9-14.1h, 17d. 23.4h-23.9h, 22d. 6.5h-6.9h.

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Lat. 38° 43.1 N. Long. 90° 22.2 W. 160 m.
Subsoil, Hard Clay.

BULLETIN FOR MARCH, 1932

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
23	March 2	I	eP_n	17 47 02	G–W	$\Delta_{S-P} = 30°$
			eS_n	52 07	G–W	
			eL	55	G–W	
			M	57 40	G–W	
			F	18 14 ±		
24	March 8	I	iP_n	4 39 41	G–W	$\Delta = 57°5$
			i	40 15	G–W	
			iS_n	47 43	G–W	
			i	49 31	G–W	
			L	58	G–W	
			M	5 03 36	G–W	
			F	35 ±		
25	March 8	I	e_e	18 28 12	G–W	Deep focus earthquake.
			M	52 30	G–W	
			F	19 35 ±		
26	March 9	I	e_e	3 06 05	G–W	
			M	07 50	G–W	
			F	13 ±		
27	March 10	I	iP_{en}	23 06 12	G–W	Deep. Much obscured by micro-seisms.
			i	06 50	G–W	
			iS_n?	10 03	G–W	
			i	10 51	G–W	
			F	12 50	G–W	
28	March 14	I	iP_{enz}	4 11 06	G–W	$\Delta_{S-P} = 24°$ Epicenter 5°N. 110°W. $O = 4^h5^m38^s$.
			iPR_{1n}	11 34	G–W	
			iPR_{2z}	11 42	G–W	
			ePR_{3n}	12 48	G–W	
			iP_cP_{en}	14 45	G–W	

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
28	March 14 (continued)	I	iS_{en}	4 15 22	G-W	
			iSR_{1e}	16 28	G-W	
			iSR_{2n}	16 40	G-W	
			eSR_{3n}	16 55	G-W	
			iP_cS_e	17 30	G-W	
			eL	17 50	G-W	
			M_1	18 40	G-W	
			M_2	20 35	G-W	
			iS_cS_n	21 50	G-W	
			$iP_cSS_cP_n$	30 00	G-W	
			F	5 30 ±		
29	March 14	I	iP_{enz}	22 49 44	G-W	$\Delta_{S-P} = 33°.2$
			ePR_{1z}	50 45	G-W	Epicenter 9°.7 N. 72°W.
			ePR_{2e}	51 08	G-W	$O = 22^h42^m55^s$.
			ePR_{3z}	51 13	G-W	U.S.C.G.S. gives 7°N. 73°W.
			eP_cP_z	51 23	G-W	
			iS_{en}	55 11	G-W	
			iP_cS_e	56 12	G-W	
			iSR_{1e}	57 10	G-W	
			iSR_{2e}	57 48	G-W	
			iSR_{3n}	58 03	G-W	
			eL	58 10	G-W	
			iS_cS_e	23 00 12	G-W	
			M_1	02 50	G-W	
			M_2	06 25	G-W	
			eP_cSS_cP	08 00	G-W	
			M_3	10 03	G-W	
			F	24 15 ±		
30	March 19	I	eP_z	11 13 44	G-W	Deep
			i_e	24 21	G-W	
			i_e	24 50	G-W	
			iS?	24 52	G-W	
			M	56 00	G-W	
			F	13 00		
31	March 26	I	iP_{enz}	00 06 42	G-W	$\Delta_{S-P} = 43°.7$
			iP_cP_e	08 21	G-W	Epicenter 61°N. 151°W. in Alaska.
			iPR_{1z}	08 29	G-W	$O = 5^h58^m29^s$.

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
31	March 26 (continued)	I	iPR_{2z}	00 09 05	G-W	
			iPR_{3z}	09 22	G-W	
			iP_cS_n	12 28	G-W	
			iS_{en}	13 21	G-W	
			iPS_e	13 28	G-W	
			iSR_{1m}	16 34	G-W	
			iS_cS	16 39	G-W	
			iSR_{2en}	17 39	G-W	
			eSR_{3e}	18 04	G-W	
			eL	20 ±	G-W	
			eP_cSS_cP	23 45	G-W	
			M_1	24 10		
			F	3 10 ±		
32	March 26	I	eP_{en}	10 08 22	G-W	$\Delta = 132°$
			iP_e	11 37	G-W	
			iPR_{1e}	13 43	G-W	
			$iS_cP_cP_e$	15 00	G-W	
			iPR_2	16 54	G-W	
			$iS_cP_cS_e$	18 50	G-W	
			iPR_{2e}	19 40	G-W	
			iPS_e	24 30	G-W	
			iPPS	35 40	G-W	

Seismic action was recorded on the following days:
15d. 5.3-6.3h, 16d. 21.3-21.4h, 23.4-23.5h, 18d. 6.3-7.1h, 20d. 0.2-0.8h, 28d. 1.2-2.6h, 29d. 0.6-0.8h, 4.1-4.2h, 30d. 18.4-18.8h, 19.6-20.3h, 31d. 19.2-19.4h.

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BULLETIN FOR APRIL, 1932

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
33	April 3	I	ez	20 57 30	G–W	Normal Depth.
			ePR_{2Z}	58 00	G–W	$\Delta = 92.5$?
			eS_e	21 03 48	G–W	Epicenter Korea?
			iPS_e	04 42	G–W	
			i_{ENZ}	07 00	G–W	
			eSR_{1N}	10 15	G–W	
			$eP_cSS_cP_E$	10 55	G–W	
			eSR_{2E}	14 45	G–W	
			eSR_{3E}	16 55	G–W	
			M	32 00	G–W	
			F	22 10 ±		
34	April 4	I	eP_{ENZ}	14 33 22	G–W	Deep focus.
			iP_{ENZ}	33 29	G–W	$\Delta = 38°$
			iPR_{1NZ}	34 42	G–W	Epicenter probably in Columbia.
			ePR_{2Z}	35 03	G–W	L waves very small.
			iP_cP_z	35 50	G–W	
			iS_{EN}	39 21	G–W	
			iP_cS_{EN}	39 52	G–W	
			isS_{EN}	40 15	G–W	
			iSR_{1EN}	41 38	G–W	
			$isSR_{1EN}$	42 18	G–W	
			iSR_{2EN}	42 35	G–W	
			iS_cS_{EN}	43 00	G–W	
35	April 13	I	eP_E?	00 05 05	G–W	Normal Depth.
			ePR_{1Z}	12 00	G–W	$\Delta = 108°$
			iS_cP_cS ?	17 52	G–W	
			$i?_{EN}$	19 50	G–W	
			iPS_{EN}	21 53	G–W	
			eSR_{1E}	27 23	G–W	
			L	47 +		
			M	54 00		
			F	2 10 ±		

ng. 90° 23.2 W. Height 160 m.

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No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
36	April 14	I	e_{EN}	01 55 30	G–W	
			i_{EN}	55 42	G–W	
			i_{EN}	59 13	G–W	
			i_{EN}	02 00 00	G–W	
			M_1	02 31	G–W	
			M_2	04 20	G–W	
			F	02 27 ±		
37	April 16	I	i_{EN}	03 05 39	G–W	
			i_{EN}	06 30	G–W	
			i_{EN}	08 39	G–W	
			i_{EN}	09 23	G–W	
			i_{EN}	10 03	G–W	
			i_{EN}	11 17	G–W	
			M	12 30	G–W	
			F	03 40 ±		
38	April 22	I	iP_Z	05 17 35	G–W	
			iS_Z	32 40	G–W	
			F	34 ±		
39	April 22	I	M	06 20 00	G–W	
			M	24 00	G–W	
			F	07 02 ±		
40	April 24	I	iP_{ENZ}	06 15 56	G–W	$\Delta_{S-P} = 21.^{\circ}9$
			iS_{EN}	19 54	G–W	$O = 6^h10^m58^s$.
			iSR_{1E}	20 45	G–W	Epicenter:
			eSR_{2E}	21 01	G–W	26°N. 112°W.
			L	22 11	G–W	Lower Californi
			M	24 30	G–W	
			F	07 14 ±		
41	April 26	I	iP_Z	08 05 33	G–W	Deep focus.
			epP_Z	06 30	G–W	$\Delta = 66^{\circ}$ S.
			esP_Z?	06 44	G–W	Epicenter:
			ePR_{1Z}	08 30	G–W	25°S. 70°W.
			iS_{EN}	14 20	G–W	

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No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
41	April 26	I	ePS_N	08 15 03	G–W	
			isS_{EN}	15 30	G–W	
			eSR_{1E}	18 39	G–W	
			esSR	20 12	G–W	
42	April 29	I	iP_{ENZ}	18 13 29	G–W	Deep focus. Aleutian Island.
			eP_cP_N	14 22	W–A	
			e_pP_Z	14 38	G–W	Δ about 61°.
			ePR_{1Z}	16 20	W–A	
			iS_{EN}	21 34	G–W	
			isS_E	22 16	G–W	
			iSR	26 10	G–W	

Seismic action was recorded on the following days: 5d. 0.1h–0.2h, 22.6h–22.9h; 6d. 10h–10.3h, 14.4h–14.5h; 7d. 10.4h–16.6h; 8d. 12.6h–13.4h, 22.9h–23.2h; 18d. 13.4h–13.9h; 19d. 22.4h–22.6h; 22d. 6.2h–6.6h; 22d; 8.0h–8.1h; 25d. 7.9h–8.5h.

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BULLETIN FOR 1932

Lat. 38° 43'.1 N. Long. 90° 22'.2 W. Height 160 m. Hard Clay.

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
43	May 1	I	e_E	4 44 10	G-W	
			e_E	4 47 00	G-W	
			e_E	4 50 49	G-W	
			M	5 15 00		
			F	5 40 ±		
44	May 1	I	iP_{ENZ}	19 14 12	G-W	Δ_{S-P}= 16°9
			eS_{EN}	19 17 24	G-W	
			i_E	19 17 47	G-W	
			i_E	19 18 40	G-W	
			iPcP	19 18 52	G-W	
			L	19 19 02		
			M	19 20 30		
			F	20 15 ±		
45	May 4	I	e_E	7 06 20	G-W	
			e	7 06 57	G-W	
			F	7 10 ±		
46	May 14	I	iP_{ENZ}	13 27 08	G-W	An earthquake of greatest intensity probably deeper than normal. Epic. 1.3 N. 124 E. O=13h10m53s. Δ 129°.3 M waves have smaller amplitude than the preliminary phases.
			iP'_{ENZ}	13 30 10	G-W	
			iPR_{1NZ}	13 32 19	G-W	
			i_{eN}	13 33 35	G-W	
			$iScPcS_{eN}$	13 37 00	G-W	
			iPPS	13 44 00	G-W	
			iSR_{1eN}	13 49 ±	G-W	
			iP_3	13 50 40	G-W	
			iSR_3	13 55		
			F	18 10 ±		
47	May 21	I	iP_{ENZ}	10 15 36	G-W	O = 10h10m17s. Δ meas. 24°.7 Epic. 13.8 N. 88.5 W. in the state of Honduras.
			iPR_{1EN}	10 16 07	G-W	
			iPR_{2N}	10 16 17	G-W	
			$iPcP_E$	10 19 17	G-W	
			iS_E	10 19 58	G-W	
			iSR_{1E}	10 20 43	G-W	
			iSR_{2E}	10 20 47	G-W	
			L	10 22 40		
			M	10 25 40		
			W	13 18 ±		
			F	13 44 ±		

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Lat. 38° 48.1 N. Long. 90° 22.2 W. Height 160 m. Hard Clay.

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
48	May 22	I	iP_Z	11 42 58	G-W	
			i_N	11 54 28	G-W	
			i_N	11 57 00	G-W	
			i	12 00 01	G-W	
			F	14 10 ±		
49	May 22	I	iP_Z	22 45 18	G-W	Deep.
			ipP_Z	22 45 37	G-W	$\Delta = 25°2°$
			isP_Z	22 45 59	G-W	Epic. 14° N.
			iS_{eN}	22 49 39	G-W	88.5 W.
			iS	22 49 43	G-W	
			L	22 53 ±		
			F	23 20 ±		
50	May 26	I	eP_{ENZ}	16 22 52	G-W	Very deep. Epic. 22°.7 S. 180° E. $O = 16^h 9^m 40^s$. The interval of two minutes between P and pP places the focus at a depth of about 600 ± km. L and M waves comparatively small.
			iP_Z	16 23 08 compression	G-W	
			ipP_Z	16 25 06 compression	G-W	
			isP_Z	16 26 03	G-W	
			iP'_Z	16 26 30	G-W	
			iPR_{1Z}	16 27 20	G-W	
			$ipPR_{1Z}$	16 29 18	G-W	
			$isPR_{1Z}$	16 29 50	G-W	
			iPR_{2Z}	16 30 18	G-W	
			$ipPR_{2Z}$	16 32 02	G-W	
			$i\overline{ScPcS}_E$	16 32 40	G-W	
			$isPR_{2Z}$	16 32 40	G-W	
			$i\overline{ScPcPcS}$	16 33 40	G-W	
			iS_{EN}	16 34 20	G-W	
			iSP_{EN}	16 36 01	G-W	
			iPS_{EN}	16 36 35	G-W	
			ipS_{EN}	16 37 05	G-W	
			isS_{EN}	16 38 00	G-W	
			$iPcScP_Z$?	16 38 40	G-W	
			$iPcPcPcP_Z$?	16 39 40	G-W	
			$i?_Z$	16 40 10	G-W	
			iSR_{1EN}	16 41 00	G-W	
			$ipSR_{1E}$	16 43 12	G-W	
			$isSR_{1E}$	16 44 30	G-W	
			iSR_{2EN}	16 45 55	G-W	
			F	19 30 ±		

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Lat. 38° 48.1' N. Long. 90° 22.2' W. Height 160 m. Hard Clay.

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
51	May 28	I	eP_{NZ}	2 39 22	G-W	
			iN	2 45 52	G-W	
			iE	2 47 02	G-W	
			F	4 20		
52	May 30	I	iP_Z	00 32 40	G-W	Deep. No surface waves.
			ipP	00 33 22	G-W	
			iSE	00 40 51	G-W	
			sS_E	00 41 38	G-W	
			i	00 43 13	G-W	

Seismic activity: 5d. 9.3h-9.8h; 6d. 4.9h-5.1h; 7d. 11.4h-11.5h; 31d. 8.9h-9.4h.

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Lat. 38° 48.1 N. Long. 90° 22.2 W. Height 160 m. Hard Clay.

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
53	June 3	I	iP_{ENZ}	10 41 53	G	Epicenter: 16°N. 104°W. Δ 25.7°
			Too violent to be recorded.			
			O = 10-36-25.			
			F	16 ±		
54	June 3	I	iP_{EZ}	15 01 17	G	Δ_{S-P} 25°.6
			iS_{EN}	05 46	G	
			iM_{ENZ}	10 49		After shock.
			F	follows.		
55	June 3	I	iP_{N}	15 13 48	W-A	Δ_{S-P} 23°.7
			iS_{EN}	18 02	G	
			iM_{NZ}	22 12		
			F	50 ±		
56	June 3	I	eP_{E}	16 57 53	G	Δ_{S-P} 23°.8
			iS_{EN}	17 02 08	G	
			iM_{EZ}	05 24	G	
			F	30 ±		
57	June 3	I	iP_{ENZ}	17 45 07	G	Δ_{S-P} 24°.6
			iS	49 28	G	
			eM_{E}	55 05	G	
			F	18 50 ±		
58	June 3	I	eP_{EN}	20 05 08	G	Δ_{S-P} 23°.8
			eS_{N}	09 23		
			L_{E}	12 42	G	
			F	follows.		
59	June 3	I	iP_{N}	20 16 59	W-A	Δ_{S-P} 23°.6
			eS_{E}	21 12	G	
			eM_{N}	26 04	W-A	
			F	45 ±		
60	June 4	I	eP_{E}	2 37 13	G	Δ_{S-P} 24°
			eS_{E}	41 29	G	
			eM_{E}	46 32	G	
			F	3 10 ±		

Long. 90 22.2 W. Height 160 m. Hard Clay.

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
61	June 4	I	eP_N	3 56 25	G	Δ_{S-P} 23°.7
			eS_{EN}	4 00 39	G	
			iM_{EN}	04 12	G	
			F	10 ±		
62	June 4	I	eP_N	5 20 23	W-A	Δ_{S-P} 26°.5
			iS_N	25 20	G	
			eM_N	33 15	W-A	
			F	55 ±		
63	June 4	I	eP_N	10 44 43	G	Δ_{S-P} 24°.7
			eS_{NZ}	49 05	G	
			eM_E	52 10	G	
			F	11 15 ±		
64	June 4	I	eP_{ENZ}	16 05 15	G	Δ_{S-P} 19°
			eS_{EN}	08 45	G	
			eM_{EN}	12 38	G	
			F	20 ±		
65	June 6	I	eP_{ENZ}	8 49 56	G	Δ_{S-P} 25°.5
			iP_Z	50 00	G	
			iPR_{1Z}	50 22	G	
			iPR_{1Z}	52 40	G	
			PcP_Z	53 30	G	
			iS_{EN}	54 28	G	
			iSR_{1EN}	55 22	G	
			PcS	58 11	W-A	
			M	58 56	W-A	
			F	follows		
66	June 6	I	iP_{ENZ}	9 17 33	G	Δ_{S-P} 23°.8
			iS_{EN}	21 48	G	
			iM_N	24 08	W-A	
			F	11 25 ±		
67	June 6	I	eP_{ENZ}	11 54 50	G	Δ_{S-P} 23°.6
			eS_{EZ}	59 03	G	Epicenter:
			iM_Z	12 01 35	G	18°.6 N. 77°.1 W.
			F	35 ±		O= 11-49-52.

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Lat 38° 48.1 N. Long. 90° 22.2 W. Height 160 m. Hard Clay.

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
68	June 8	I	eP_{ENZ}	5 01 40	G	$\triangle_{S-P}$ 45°.3
			eS_{ENZ}	08 29	G	
			iM_{ENZ}	17 18	G	
			F	40 ±		
69	June 8	I	iP_{ZN}	8 00 52	G W-A	$\triangle_{S-P}$ 42°.7
			iS_{ENZ}	07 24	G W-A	
			iM_{ENZ}	16 39	G	
			F	40 ±		
70	June 8	I	eP_{EN}	10 42 04	G	$\triangle_{S-P}$ 25°.4
			iS_{ENZ}	46 31	G	
			iM_{NZ}	51 34	G	
			F	11 10 ±		
71	June 9	I	iP_{ENZ}	4 40 48	G	$\triangle_{S-P}$ 23°.7
			eS_{NZ}	44 55	G	
			eL_{E}	47 15	G	
			F	5 45 ±		
72	June 10	I	iP_{N}	3 17 36	W-A	$\triangle_{S-P}$ 26°.8
			iS_{N}	22 16	G	
			eM_{NZ}	26 11	G	
			F	40 ±		
73	June 10	I	eP_{N}	21 34 25	G	$\triangle_{S-P}$ 23°.3
			iS_{N}	38 35		
			iM_{EN}	42 10	G	
			F	22 10 ±		
74	June 10	I	iP_{Z}	23 04 58	G	$\triangle_{S-P}$ 53°
			S	13 04	G	
			F	20 ±		
75	June 14	I	iP_{E}	6 19 18	G	$\triangle_{S-P}$ 35°.2
			iS_{E}	24 58	G	
			F	7 15 ±		
76	June 16	I	e_{E}	1 38 04	G	
			i_{Z}	38 23	G	
			i_{Z}	40 50	G	

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Long. 90° 22.2' W. Height 160 m. Hard Clay.

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
76	June 16	I	i_Z	1 41 30	G	
			i_Z	42 07	G	
			i_N	47 38	G	
			i_N	58 43	G	
			F	3 30 00		
77	June 18	I		10 17 11		$\triangle$ 23°
			Too violent to be recorded;			Epicenter: 18°.8 N. 104°.5 W. 0= 10-12-36.
78	June 18	I	iP_Z	22 04 18	G	$\triangle_{S-P}$ 23°.6
			iS_N	08 31	G	
			i_Z	13 49	G	
			F	40 ±		
79	June 19	I	eP_N	8 46 40	G	$\triangle_{S-P}$ 24°
			eS_N	50 56	W-A	
			i_N	54 40	G	
			e_N	56 25	G	
			F	9 15 ±		
80	June 20	I	iP_Z	9 07 20	G	$\triangle_{S-P}$ 24°.8
			eS	11 43	G	Epicenter: 13°N. 88°.5 W. 0=9-02-00.
81	June 20	I	iP_N	9 32 15	G	$\triangle_{S-P}$ 31°.8
			i_N	37 13	G	Epicenter: 44°N. 126°W. 0=9-26-46.
			iS_E	37 33	G	
			i_Z	40 14	G	
			F	10 30 ±		
82	June 22	I	iP_{EZ}	13 04 30	W-A	$\triangle_{S-P}$ 26°
			i_N	04 40	W-A	Great intensity.
			i_N	04 51	W-A	Epicenter: 17°.3 N. 103°.5 W. 0= 12-59-18. Off Mexico.
			iS_N	09 03	W-A	
The subsequest phases were too violent to be recorded.						
83	June 22	I	iP_E	16 53 45	G	$\triangle_{S-P}$ 22°
			eS_E	57 44	G	
			iL_{EZ}	17 01 38	G	
			F	30 ±		

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Lat. 38° 48.1' N. Long. 90° 22.2' W. Height 160 m. Hard Clay.

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instruments	Remarks
84	June 24	I	iP_Z	9 49 08	G	Δ_{S-P} 27°
			eS_E	53 47	G	
			F	10 15		

Besides the above, seismic activity at : 5d. 18.8h-19.3h; 9d. 3.4h-4.1h; 9d. 22h-22.5h; 10d. 12.5h-13h; 12d. 3h-3.5h; 13d. 21.5h-22.5h; 14d. 20.9h-21.5h; 27d. 9.1h-9.5h.

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Lat. 38° 43.1 N. Long. 90° 22.2 W. Height 160 m. Hard Clay

No.	Date	Char.	Phase	G.M.Time h. m. s.	Instrument	Remarks
85	July 3	I	eP_{EN}	17 40 05		△ = 50°
			iS_{N}	17 47 22		
			F	17 50 ±		
	July 5		Seismic motion at approx. 7-10			(G.M.T.)
	July 5		Seismic motion. Time not determinable.			
86	July 6	I	iP_{EN}	15 12 21		
			eS_{EN}	15 16 43		
			eM_{EN}	15 20		
			F	15 30 ±		
87	July 7	II	iP_{ENZ}	16 20 37		△ = 22°.3 Epicenter: 28° N. 113°.5 W
			i_{EN}	16 20 43		
			iS_{EN}	16 24 39		
			iL_{N}	16 26 25		
			F	18 30 ±		
	July 9		Emergent phases beginning at approx. 13-15. Lasted until about 13.55.			
	July 10		Seismic motion beginning about 00-55. Record very indistinct.			
88	July 10	I	iP_{EN}	7 57 57		△ = 84°.1
			eS_{EN}	8 08 25		
			eM_{EN}	8 29		
			F	9 30 ±		
89	July 12		e_{E}	3 07 33		
			eL_{E}	3 17 03		
			F	3 30 ±		
90	July 12	I	eP_{EN}	13 57 30		△ = 24°.5
			eS_{EN}	14 01 50		
			eL_{EN}	14 07 05		
			F	14 25 ±		

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No.	Date	Char.	Phase	G.M.Time h. m. s.	Instrument	Remarks
91	July 12	II	iP_{EN}	19 23 53		$\triangle$= 21°.7
			iS_{EN}	19 32 49		Epicenter:
			iL_{EN}	19 34 29		25°.6 N. 110°.5W.
			iM_{EN}	19 35 35		
			F	22 30 ±		
92	July 13	I	eP_{E}	2 31 24		$\triangle$= 23°.8
			eS_{E}	2 35 39		
			eL_{EN}	2 37 52		
			F	2 52 ±		
	July 13		Corresponding to the St. Louis records. Time uncertain.			
93	July 16	I	eP_{EN}	23 35 52		May be only the long waves of the quake shown on the St.Louis records beginning at 23-38-00
			eS_{N}	23 36 02		
			eL_{EN}	23 37 30 (±10)		
			F	23 50 ±		
94	July 17	I	e_{EN}	00 41 35		Probably only t the emergent phases showing
			eL_{EN}	00 45 30		
			F	00 55 ±		
95	July 20	I	eS_{EN}	3 01 14		$\triangle$= 21°.4 from the St.Louis records. Phases on these record are indistinct.
			eL_{EN}	3 04		
			F	3 20 ±		
	July 20	I	Emergent phases which correspond to the St. Louis records. They center about 20-30 .			
	July 21	I	Emergent phases centering about 00-20-00.			
	July 21	I	Emergent phases beginning at about 12-56-14 F 15-00-00.			
	July 22	I	Emergent phases beginning at 10-06-30 and ending at about 11-00-00.			
	July 22	I	Emergent phases beginning at about 12-00-00.and lasting until about 14-00-00 .			

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No.	Date	Char.	Phase	G.M.Time h. m. s.	Instrument	Remarks
	July 25	I	Emergent phases centering about 8-45. No surface waves.			
96	July 25	II	iP_{EN}	9 17 55		Δ = 23°.3 Epicenter 17°.2 N 104°.0 W.
			i_{EN}	9 18 03		
			iPR_{1EN}	9 18 26		
			iS_{EN}	9 22 05		
			iM_{EN}	9 26 13		
			F	covered by the following		
	July 25	I	Emergent phases beginning at about 9-34-50(±2). Phases indistinguishable on these records.			
	July 30	I	Emergent phases beginning at 7-25-47. Indistinct.			
	July 30	I	Emergent phases beginning at approx. 21.17.			

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No.	Date	Char.	Phase	G.M.Time h. m. s.	Instrument	Remarks
	September 3	I	Seismic motion (NW) about 12.5h. Indistinct.			
	September 4		Seismic motion at 18h. (G.M.T.)			
	September 5		Seismic motion at 4h. (G.M.T.) Indistinct.			
97	September 8	I	iP_{ENZ}	1 46 16.5	W-G	$\triangle_{S-P}$ 24°.7
			iS_{EN}	1 50 33.0	W-G	
			eL_{EN}	1 53 56	W-G	
			iM_{EN}	1 56 50	W-G	
			F	2 20 ±		
	September 9		Activity early on the 9th.			
98	September 14	I	eP_{ENZ}	7 51 08	W-G	$\triangle_{S-P}$ 40°.7
			i_N	7 51 23	W-G	Epicenter: 61°N. 146°W. Probably moderately deep.
			iPR_{1EN}	7 54 01	W-G	
			eS_{EN}	7 57 25	W-G	
			eSR_{1EN}	8 00 27	W-G	
			eM_{EN}	8 06 05	W-G	
			F	8 30 ±		
99	September 15	II	e_{NE}	14 21 16	W-G	Quake reported at Hawke Bay, New Zealand
			$eScPcPcS_{EN}$	14 21 50	W-G	
			e_{EN}	14 24 10	W-G	
			eSR_{1EN}	14 29 53	W-G	
			eL_{EN}	14 57 22	W-G	
			eW_{2EN}	16 07 04	W-G	
			F	16 40 ±		
100	September 23	I	iP_{ENZ}	14 34 19	W-G	$\triangle_{S-P}$ 87°.3 (Scrase and Stechschulte)
			i_{EN}	14 34 20.5	W-G	
			ipP_{EN}	14 35 21	W-G	$\triangle_{meas.}$ 83°.0
			isS_{EN}	14 36 01	W-G	
			iS_{EN}	14 44 19.5	W-G	
			i_{EN}	14 46 22	W-G	
	September 25		Seismic motion centering at 9.7 h. (G.M.T.)			

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No.	Date	Char.	Phase	G.M.Time h. m. s.	Instrument	Remarks
101	September 26	I	eP_{EN} iS_{N} eL_{E} F	19 33 01 19 43 12 19 52 38 21 00	W-G W-G W-G	$\triangle_{S-P}$ 81°.1
102	September 29	I	e_{EN} eL_{EN} F	4 09 34 4 39 4 54	W-G W-G	
103	September 29	I	eP_{ENZ} eS F(?)	17 58 30 18 03 21	W-G W-G	$\triangle_{S-P}$ 77°.1

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No.	Date	Inst.	C/D	Phase	G.M.C.T.	S-P	△	P-O	O--remarks
104	October 2	W-A		iP_N	3-04-57	4'49"	27°9	5'50"	Tentative epicenter: 10°9 N., 86°5 W. $0=2^h59^m07^s$
		W-A		iPR_{1N}	3-05-48				
		W-A		ePR_{2N}	3-06-03				
		W-G		eS_{EN}	3-09-45				
		W-G		eSR_{1EN}	3-11-15				
		W-G		eSR_{2EN}	3-11-39				
		W-G		eL_{EN}	3-12-49				
				F	3-40				
	October 8	Seismic activity centering around 1-30.							
	October 9	Seismic activity centering around 1-10.							
	October 9	Seismic activity centering around 23-10.							
105	October 11	W-G		eP_{EN}	19-13-05	3'54"	21°4	4'43"	$19^h08^m22^s$ Tentative epicenter: 25° N., 110°W.
		W-G		iS_{EN}	19-17-01				
		W-G		iL_{EN}	19-19-07				
		W-G		eM_{EN}	19-21-30				
				F	20-04				
106	October 15	W-G		eP_{EN}	19-45-57	4'17"	24°1	5'12"	$19^h40^m45^s$
		W-G		eS_{EN}	19-50-14				
				F	20				
107	October 16	W-G		eP_{EN}	12-16-41	6'55"	46°3	8'24"	$12^h08^m17^s$
		W-G		iP_{EN}	12-16-48	6'56"	46°8	8'25"	$12^h08^m23^s$
		W-G		iS_{EN}	12-23-37				Tentative epicenter: 55° N., 155° W. Two shocks.
		W-G		eS_N	12-23-43				
		W-G		ePS_{EN}	12-23-49				
		W-G		i_{EN}	12-26-30				
		W-G		eL_{EN}	12-31				
		W-G		eM_{EN}	12-34				
				F	13-00				
	October 17	Emergent phases beginning at approximately 12-57 and lasting until 13-00.							
	October 17	Emergent phases beginning at approximately 13-24 and lasting until 14-15.							

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No.	Date	Inst.	C/D	Phase	G.M.C.T.	S-P	△	P-O	O--Remarks
	October 20	Seismic activity centering at about 19-00.							
108	October 24	W-G		iP_{EN} iS_E	12-11-26 12-13-29	iS-iP 7'03"	47°7	8'34"	Probably deep. O=12-03-52
	October 25	Seismic activity centering at about 18-40.							
	October 27	Seismic activity centering at about 10-15.							
109	October 29	W-G W-G W-G W-G		eP_E eS_E iL_{EZ} eM_{EZ} F	3-41-54 3-46-12 3-49-10 3-51-28 4-14	4'18"	24°4	5'14"	$3^h36^m40^s$
110	October 30	W-G W-G W-G W-G W-G W-G W-G		ePE $ePcP_E$ iS_E ePS_E eSR_{1E} iL_E eM_E F	20-55-29 20-56-51 21-02-31 21-02-41 21-06-17 21-09 21-14 22-15	7'02"	47°6	8'33"	$20^h46^m56^s$

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No.	Date	Inst.	Phase	G.M.C.T.	S-P	△	P-O	O--Remarks
111	Nov. 12	W-G	$iP_{I\ EN}$	4-59-11	10'13"	81?5	12'15"	$4^h46^m56^s$. Tentative epicenter: 41° N., 135° E. O by Stechschulte's table = $4^h46^m51^s$.
		W-G	$eP_{II EN}$	4-59-15				
		W-G	pP_{EN}	5-00-31				
		W-G	ePR_{1EN}	5-02-42				
		W-G	$iScPcS_{EN}$	5-09-06				
		W-G	$iS_{I\ EN}$	5-09-24				
		W-G	$eS_{II EN}$	5-09-29				
		W-G	iSR_{1EN}	5-15-14				
		W-G	iSR_{2EN}	5-19-00				
		W-G	iSR_{3EN}	5-20-44				
		W-G	L_{EN}	5-26				
		W-G	eM_{EN}	5-32				
		W-G	F	7-00 ±				
112	Nov. 15	W-G	eP_{EN}	10-36-07	4'42"	27?1		$10^h20^m24^s$.
		W-G	S_{EN}	10-40-49				
113	Nov. 18	W-G	eP_{EN}	1-04-54		25?4		$00^h59^m31^s$.
		W-G	iS_{EN}	1-09-20				
		W-G	eM_{EN}	1-16-15				
		W-G	F	2-00 ±				

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No.	Date	Inst.	C/D	Phase	G.M.C.T.	S-P	△	P-O	O--Remarks
114	Dec. 4	W-A G-W		iP_{EZ} iS_{N}	4-11-58 4-18-28 6-25	6'30"	42°4	7'53"	$4^h04^m05^s$. 38°N. 35°W.
115	Dec. 4	G-W W-A G-W G-W G-W G-W G-W		eP_{Z} eP'_{EZ} ePR_{1EZ} $iScPcP_{EZ}$ iPS_{EN} i_{EN} eL_{NZ} F	8-27-29 8-30-25 8-32-31 8-33-47 8-42-48 8-44-30 9-15-30 10-40				
115 6	Dec. 7	G-W W-A W-A W-A G-W	C	iP_{ENZ} i_{ENZ} i_{EN} i_{Z} iS F	16-27-18 16-27-24 16-27-53 16-28-03 16-31-38 19-40	4'20"	24°5	5'16"	$16^h22^m02^s$. 18°2 N. 103°5 W.
116	Dec. 19	W-A W-A W-A G-W G-W G-W	C	iP_{NZ} i_{N} i_{N} iS_{EN} i_{E} eL_{ENZ} F	6-34-06 6-34-20 6-34-27 6-38-45 6-40 00 6-44-00 7-40	4'39"	26°7	5'38"	$6^h\ 23^m28^s$. 12°5 N. 93° W.
117	Dec. 20	W-A G-W		eP_{EN} iS_{EN} F	2-44-26 2-51-30 3-20	7'04"	47°9	8'35"	$2^h35^m51^s$.
	Dec. 21	Records not available for measurement.							
118	Dec. 24	G-W W-A W-A G-W G-W	C C C 	iP i_{NZ} i_{N} i_{NZ} eS_{N}	23-57-11 23-57-33 23-57-35 23-57-47 24-01-13	4'02"	22°3	4'53"	Deep focus.

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No.	Date	Inst.	C/D	Phase	G.M.C.T.	S-P	△	P-O	O--Remarks
118 cont.	Dec. 24	G-W		iS_{EN}	24-01-20				
		G-W		i_{E}	24-02-03				
				F	24-30				
119	Dec. 25	G-W	C	iP_{Z}	2-18-20	11'54"	102°	13'56"	$2^h04^m24^s$. Destructive in Suchau, China.
		G-W	D	iPR_{1NZ}	2-22-28				
		G-W		i_{N}	2-24-26				
		G-W		i_{N}	2-28-17				
		W-A		$iScPcS_{N}$	2-29-08				
		W-A		iS_{N}	2-30-16				
		W-A		e_{N}	2-31-32				
		G-W		iSR_{1N}	2-37-35				
		G-W		i_{N}	2-40-36				
		G-W		i_{N}	2-45-00				
		W-A		M_{N}	3-03-00				
				F	6-40				
120	Dec. 26	W-A	C	iP	5-07-35	4'02"	22°3	4'53"	Deep focus.
		G-W		eS_{N}	5-11-32				
		G-W		iS_{N}	5-11-37				
		G-W		iM_{N}	5-14-14				
				F	5-50				
121	Dec. 30	W-A	C	iP_{NZ}	18-53-05	4'28"	25°5	5'26"	$18^h47^m29^s$.
		G-W		eS_{N}	18-57-38				
		G-W		eL_{N}	19-03-00				
				F	19-30				
122	Dec. 31	G-W		eP_{EZ}	6-50-22				
		G-W		i_{Z}	6-53-40				
		G-W		eM_{EZ}	7-36-00				
				F	9-10				

Minor Seismic movements at the following time intervals:
10 d. 4.4 h.-5.5h.; 10d. 10.4h.-12.0h.; 24d. 6.0h.-8.9h.;
25d. 0.2h.-1.1h.