

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

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instrument	Remarks
1	Jan. 5	I	iP _N	1 31 18	W-A	Kamchatka. 53° 5' N. 155° 7' E.
			eL _E	1 31 20	W-A	
			iP _o P _N	1 31 53	W-A	
			iS _E	1 40 44	W-A	
			i _E	1 41 16	W-A	
			eL _E	1 55 00	W-A	
			F	2 15 ±	W-A	
2	Jan. 5	I	iP _N	19 04 30	W-A	
			eS _E	19 14 33	W-A	
			i _E	19 15 07	W-A	
			eL _E	19 36 00	W-A	
			F	19 45 ±	W-A	
3	Jan. 12	I	eP _N	5 34 00	W-A	
			eS _N	5 40 30	W-A	
			eL _E	5 43 11	W-A	
			F	6 10 ±	W-A	
4	Jan. 13	I	eL _E	5 43 10	W-A	
			F	5 50 ±	W-A	
5	Jan. 14	I	e _E	21 40 22	W-A	
			eEN	21 47 02	W-A	
			e _E	21 47 45	W-A	
			F	Covered by following		
6	Jan. 14	I	e _E	22 15 22	W-A	
			e _E	22 25 27	W-A	
			eL _E	22 47 20	W-A	
			eM _E	22 55 20	W-A	
			F	23 30 ±	W-A	

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instrument	Remarks
7	Jan. 16	I	iP _E	0 29 27	W-A	In Pacific Ocean opposite Los Angeles.
			eS _E	0 33 34	W-A	
			eS _E	0 35 44	W-A	
			eM _E	0 37 54	W-A	
			F	1 10 ±	W-A	
8	Jan. 18	I	e _E	7 24 12	W-A	
			eE	7 29 54	W-A	
			eE	7 32 49	W-A	
			eE	7 39 03	W-A	
			eE	7 44 40	W-A	
			eM _E	8 00 04	W-A	
			F	8 25 ±	W-A	
9	Jan. 20	I	eS _E	7 40 45	W-A	
			eL _E	8 07 45	W-A	
			eM _E	8 17 15	W-A	
			F	8 30 ±	W-A	
10	Jan. 21	I	iP _N	3 47 07	W-A	
			iS _N	3 51 27	W-A	
			eM _E	3 55 05	W-A	
			F	4 15 ±	W-A	
11	Jan. 21	I	eP _N	22 20 13	W-A	
			eS _N	22 24 39	W-A	
			F	22 35 ±	W-A	
12	Jan. 27	I	iPEN	20 56 35.3	W-A	Local
			iEN	20 56 36.7	W-A	
			i _E N	20 56 37.3	W-A	
			F	20 57 ±	W-A	

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BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instrument	Remarks
13	Jan. 28	I	e _N	0 41 40	W-A	
			F	0 42 ±	W-A	
14	Jan. 28	I	e _W	7 13 10	W-A	
			e _M	7 20 25	W-A	
			F	7 45 ±	W-A	
						Midnight to midnight strong micro- seisms. Jan. 29-30.
15	Feb. 1	I	e _E	19 10 24	W-A	
			e _{S_E} ?	19 13 00	W-A	
			e _E	19 16 13	W-A	
			F	19 35 ±	W-A	
16	Feb. 2	I	i _{P_E}	15 06 17	W-A	Epicenter 49° N. 177° E.
			i _{S_E}	15 14 22	W-A	
			e _E	15 15 06	W-A	
			i _E	15 15 58	W-A	
			e _{L_E}	15 24 30	W-A	
			e _{M_E}	15 23 40	W-A	
			F	16 30 ±	W-A	
						Midnight to midnight Feb. 6-7. Noon to noon Feb. 9-10. Microseisms strong.
17	Feb. 11	I	i _N	23 56 36	W-A	No record on e-W.
			e _N	24 01 03	W-A	
			F	24 10 ±	W-A	

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BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instrument	Remarks
18	Feb. 13	I	i_N	10 20 07.4	W-A	Local
			i_N	10 20 07.7	W-A	
			F	10 21 ±	W-A	
19	Feb. 14	I	iP_N	18 50 40	W-A	Destructive in Crete. $\Delta = 80^\circ$ Meas = 86°
			iSE_N	19 00 52	W-A	
			eME	19 19 20	W-A	
			F	19 35 ±	W-A	
20	Feb. 14	I	$eS_C P_C S_E$	21 05 28	W-A	Epicenter according to Manila = $30^\circ S.$ $175^\circ W.$
			eSR_{1E}	21 13 10	W-A	
			eE	21 18 05	W-A	
			eME	21 31 45	W-A	
			F	22 40 ±	W-A	
21	Feb. 20	I	iP_N	19 48 42.3	W-A	Time approxi- mate.
			iS_N	19 48 44.8	W-A	
			F	19 49 ±	W-A	
22	Feb. 24	I	eP_N	1 26 08	W-A	
			eS_N	1 23 17	W-A	
			F	1 45 ±	W-A	
23	Feb. 24	I	eN	20 30 29	W-A	
			iN	20 30 32	W-A	
			F	20 31 ±	W-A	
24	Feb. 24	I	eN	21 10 29	W-A	
			eN	21 13 38	W-A	
			eN	21 13 53	W-A	
			F	21 20 ±	W-A	
25	Feb. 25	I	iP_{EN}	12 46 11	W-A	Felt at Cairo, Illinois.
			eE	12 46 12	W-A	
			F	12 47 ±	W-A	



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BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instrument	Remarks
26	Feb. 26	I	i _E	2 34 25	W-A	Approximate time. Felt in Cal- exico, Calif.
			e _E	2 38 24	W-A	
			i _{SE}	2 38 32	W-A	
			e _E	2 40 30	W-A	
			e _{LN}	2 41 00	W-A	
			e _{LE}	2 42 10	W-A	
			e _{ME}	2 43 25	W-A	
			F	3 10 ±	W-A	
27	Feb. 26	I	e _{SE}	3 30 45	W-A	
			e _{LE}	3 32 10	W-A	
			F	3 45 ±	W-A	
28	Feb. 26	I	e _E	4 32 20	W-A	
			e _{LE}	4 35 10	W-A	
			F	4 45 ±	W-A	
29	Feb. 28	I	e _{PEN}	1 06 19	W-A	Time ap- proximate.
			e _{SE}	1 12 04	W-A	
			e _{LE}	1 19 10	W-A	
			F	1 40 ±	W-A	
30	Mar. 1	I	e _E	23 55 03	W-A	
			e _{LE}	23 55 38	W-A	
			F	25 15 ±	W-A	
						Mar. 2. No record E-W. Lamp failed.
						March 3-4. 6 p.m.-6 p.m. Microseisms.

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
31	Mar. 8	I	eP _N	3 51 43	W-A	Reported from Panama.
			iP _N	3 51 45	W-A	
			i _N	3 51 57	W-A	
			i _N	3 52 21	W-A	
			eS _{EN}	3 56 10	W-A	
			iS _{EN}	3 56 41	W-A	
F				End covered by following.		
32	Mar. 8	I	eP _E	3 54 20	W-A	Superposed on preced- ing.
			eS _E	3 59 38	W-A	
			eM _N	4 04 28	W-A	
			F	4 55 ±	W-A	
33	Mar. 10	I	e _N	15 11 39	W-A	
			eM _N	15 16 00	W-A	
			F	15 25 ±	W-A	
34	Mar. 10	I	e _N	16 38 25	W-A	Time ap- proximate.
			i _N	16 38 26	W-A	
			i _N	16 41 33	W-A	
			eS _N	16 47 26	W-A	
			e _N	16 47 40	W-A	
			F	17 00 ±	W-A	
35	Mar. 20	I	i _E	22 52 00	W-A	Local
			i _E	22 52 00.3	W-A	
			i _E	22 52 00.7	W-A	
			i _E	22 52 01.2	W-A	
			F	22 53 ±	W-A	

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
36	Mar. 26	I	i _N	7 30 55	W-A	Epicenter: 8°5' S. 127°5' E. according to Manila.
			e _N	7 39 08	W-A	
			e _N	7 51 08	W-A	
			e _E	7 53 98	W-A	
			e _{EN}	7 56 27	W-A	
			e _{LEN}	8 07 00	W-A	
F	9 50 ±	W-A				
37	Mar. 30	I	e _{MN}	9 19 15	W-A	Epicenter near 55°S. 28°W.
			F	9 40 ±	W-A	
38	Mar. 30	I	e _E	15 41 20	W-A	Epicenter 8°S. 128°E.
			e _E	15 42 15	W-A	
			F	16 40 ±	W-A	
39	Mar. 31	I	e _{PEN}	12 46 12	W-A	39°5' N. 23°E. according to Strasbourg.
			e _{SN}	12 56 16	W-A	
			e _{LE}	13 11 15	W-A	
			F	13 35 ±	W-A	
40	Apr. 2	I	i _E	9 39 35.6	W-A	Felt at Caruthersville, Mo. Δ = 275 km.
			i _E	9 39 37.8	W-A	
			i _E	9 39 39.7	W-A	
			F	9 40 ±	W-A	
41	Apr. 13	I	e _E	1 03 26	W-A	
			e _{SE}	1 07 50	W-A	
			F	1 40 ±	W-A	
42	Apr. 13	I	e _{LN}	3 44 30	W-A	
			F	3 50 ±	W-A	
43	Apr. 16	I	i _{PN}	14 36 53	W-A	
			i _{SE}	14 41 55	W-A	
			e _{EN}	14 46 39	W-A	
			F	15 25 ±	W-A	

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
44	Apr. 21	I	ePR _{1E}	12 09 45	W-A	South Atlantic. 55°S. 28°W. Time approximate.
			ePS _E	12 19 05	W-A	
			eSR _{1E}	12 25 15	W-A	
			eL _E	12 41 25	W-A	
			F	13 45 ±	W-A	
45	Apr. 22	I	i _N	18 50 41	W-A	Local
			F	18 51 ±	W-A	
46	Apr. 23	I	iP _E	18 35 58	W-A	Time approximate.
			iS _E	18 43 12	W-A	
			F	19 40 ±	W-A	
47	Apr. 23	I	e _E	19 16 00.3	W-A	Local Time approximate.
			i _E	19 16 01.5	W-A	
			i _E	19 16 03.2	W-A	
			i _E	19 16 04.7	W-A	
			i _E	19 16 06.0	W-A	
			i _E	19 16 10.0	W-A	
			F	19 17 ±	W-A	
48	Apr. 23	I	eP _N	22 00 54	W-A	Kurile Islands. Δ = 77°5
			eS _E	22 10 54	W-A	
			eL _E	22 30 30	W-A	
			F	23 30 ±	W-A	
49	Apr. 26	I	eP _N	16 28 24	W-A	Aleutian Islands. Time approximate.
			iS _E	16 36 38	W-A	
			i _{EN}	16 38 13	W-A	
			eM _E	16 46 40	W-A	
			F	18 30 ±	W-A	
50	Apr. 28	I	e _E	19 30 38	W-A	
			L _E	19 31 40	W-A	
			F	20 15 ±	W-A	

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
51	May 1	I	e _E	0 55 01	W-A	Time approxi- mate.
			e _E	1 03 51	W-A	
			e _E	1 11 31	W-A	
			e _E	1 14 41	W-A	
			i _E	1 21 30	W-A	
			i _E	1 21 59	W-A	
			eM _E	1 43 40	W-A	
F	2 15 ±	W-A				
52	May 2	I	e _E	2 06 43	W-A	Time approxi- mate.
			e _E	2 09 45	W-A	
			e _E	2 15 43	W-A	
			eL _E	2 31 45	W-A	
			F	3 15 ±	W-A	
53	May 2	I	e _E	6 20 32	W-A	
			e _E	6 29 50	W-A	
			e _E	6 35 38	W-A	
			eM _E	6 53 45	W-A	
			F	8 35 ±	W-A	
54	May 3	I	e _E	12 51 59	W-A	
			eL _E	13 17 45	W-A	
			F	13 45 ±	W-A	
55	May 3	I	e _E	15 57 45	W-A	
			eL _E	16 14 15	W-A	
			F	16 45 ±	W-A	
56	May 5	I	ePR _{1N}	14 06 28	W-A	Destructive in Rangoon and Pegu. Δ = 123°5
			ePR _{2N}	14 08 22	W-A	
			eS _C P _C S _N	14 11 53	W-A	
			e _N	14 18 15	W-A	
			eL _E	14 43 40	W-A	
			eL _N	14 45 00	W-A	
			eM _E	14 56 55	W-A	
			F	16 30 ±	W-A	

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BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
57	May 6	II	eP _E	22 47 33	W-A	Destructive in Urumich N.W. Persia. Δ = 93.5
			ePR _{1E}	22 51 30	W-A	
			i _E	22 53 09	W-A	
			eS _C P _C S _E	22 58 01	W-A	
			iPS _E	23 00 04	W-A	
			eSR _{1E}	23 05 25	W-A	
			eSR _{2E}	23 08 24	W-A	
			eL _E	23 14 35	W-A	
			eM _E	23 24 00	W-A	
			F	26 30 ±	W-A	
58	May 8	I	e _E	13 59 50	W-A	Time approxi- mate.
			e _E	14 03 00	W-A	
			e _E	14 08 05	W-A	
			eL _E	14 24 50	W-A	
			F	15 15 ±	W-A	
59	May 8	I	e _E	15 41 50		End covered by following
			eL _E	15 45 50		
			F			
60	May 8	I	i _E	15 59 15		
			i _E	16 00 59		
			eL _E	16 26 50		
			F	17 15 ±		
61	May 8	I	eL _E	22 55 05		
			F	23 20 ±		
62	May 9	I	e _E	7 30 50		
			F	8 10 ±		
63	May 9	I	e _E	9 15 55		
			F	9 30 ±		
64	May 9	I	e _E	14 08 41		
			eM _E	14 16 45		
			F	15 00 ±		

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
65	May 9	I	i _E	20 40 14.7	W-A	Local
			i _E	20 40 16.3	W-A	
			i _E	20 40 18	W-A	
			F	20 41 ±	W-A	
66	May 10	I	eP _E	22 15 46	W-A	Time approximate.
			eS _N	22 19 41	W-A	
			eL _E	22 21 09	W-A	
			eM _E	22 22 39	W-A	
			F	23 10 ±	W-A	
67	May 11	I	e _E	23 03 38	W-A	Time approximate.
			eL _E	23 37 55	W-A	
			F	24 15 ±	W-A	
68	May 12	I	e _E	22 37 46	W-A	
			eL _E	22 42 55	W-A	
			F	23 15 ±	W-A	
69	May 13	I	e _E	8 36 27	W-A	
			eL _E	8 44 55	W-A	
			F	9 15 ±	W-A	
70	May 13	I	e _E	18 27 47	W-A	
			eM _E	18 31 55	W-A	
			F	18 45 ±	W-A	
71	May 14	I	e _E	19 42 00	W-A	
			eL _E	19 59 50	W-A	
			eM _E	20 06 00	W-A	
			F	21 00 ±	W-A	
72	May 16	I	eL _E	3 09 00	W-A	
			F	3 55 ±	W-A	

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
73	May 16	I	i _E	10 22 25.6	W-A	Local
			i _E	10 22 26.1	W-A	
			i _E	10 22 27	W-A	
			i _E	10 22 29	W-A	
			F	10 23 ±	W-A	
74	May 18	I	e _E	0 28 03	W-A	Time approxi- mate.
			e _E	0 32 03	W-A	
			eL _E	0 52 00	W-A	
			F	1 30 ±	W-A	
	May 18					Lamp burned out on E-W
75	May 20	I	eL _E	8 37 00	W-A	
			F	9 15 ±	W-A	
76	May 20	I	eP _E	11 25 11	W-A long and short period	51°N. 180°W. U. S. Coast and Geodetic Survey.
			eS _E	11 33 24		
			eL _E	11 43 00		
			F	13 40 ±		
77	May 21	I	eP _E	22 17 31	W-A	Time approxi- mate.
			iP _E	22 17 33	W-A	
			iS _E	22 24 15	W-A	
			iM _E	22 35 00	W-A	
			F	23 05 ±	W-A	
78	May 23	I	i _E	23 33 03	W-A	Local Time approxi- mate.
			i _E	23 33 04.3	W-A	
			i _E	23 33 07	W-A	
			F	23 34 ±	W-A	
	May 23					Part of E-W record lost by shift of light spot due to overheating.

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
79	May 24	I	i _E	23 27 24.4	W-A	Local Time approxi- mate.
			i _E	23 27 25.6	W-A	
			i _E	23 27 27.2	W-A	
			F	23 28 ±	W-A	
	May 28					Part of E-W record lost by overscoring due to heat- ing of building.
80	May 29	I	iP _E	8 37 28	W-A short-	Time approximate.
			eS _E	8 42 38	period. "	
			e _E	8 47 27	"	
			F	8 50 ±	"	
81	May 30	I	e _E	19 03 45	W-A	
			F	19 30 ±	W-A	
82	May 31	I	eP _E	10 27 55	W-A	Time approximate
			eS _E	10 32 56	W-A	
			eM _E	10 40 00	W-A	
			F	11 30 ±	W-A	
83	June 1	I	e _E	13 28 32	W-A	Time approximate
			e _E	13 37 32	W-A	
			eL _E	13 54 30	W-A	
			eM _E	14 03 30	W-A	
			F	15 15 ±	W-A	
84	June 3	I	iP _{EN}	18 20 24	W-A short-	Time approximate.
			iS _E	18 29 26	period. "	
			F	18 35 ±	"	

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
85	June 4	I	$i_E?$	10 11 42	W-A	
			i_E	10 12 01	W-A	
			e_E	10 12 36	W-A	
			e_E	10 14 39	W-A	
			e_E	10 17 44	W-A	
			F	11 30 ±	W-A	
86	June 5	I	e_E	11 57 09	W-A	
			e_E	12 07 34	W-A	
			e_E	12 08 29	W-A	
			e_E	12 11 39	W-A	
			eL_E	12 31 44	W-A	
			F	14 30 ±	W-A	
87	June 11	I	e_E	1 09 39	W-A	
			e_E	1 15 09	W-A	
			e_E	1 16 39	W-A	
			e_E	1 19 29	W-A	
			e_E	1 25 39	W-A	
			e_E	1 30 39	W-A	
			eL_E	2 00 40	W-A	
			F	3 30 ±	W-A	
88	June 12	I	e_N	9 18 40	W-A	Felt at Grover, Wyoming.
			eL_N	9 21 00	W-A	
			F	9 28 ±	W-A	
89	June 12	I	$eP_{E(N)}$	9 50 24	W-A	Felt at Grover, Wyoming and at Montpelier, Idaho. $\Delta = 16.5$ to 16.9
			eS_N	9 53 31	W-A	
			iS_N	9 53 35	W-A	
			iM_N	9 55 00	W-A	
			F	10 20 ±	W-A	

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SEISMOGRAPHIC STATION, ST. LOUIS UNIVERSITY, ST. LOUIS, MO., U. S. A.¹⁵

One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
90	June 12	I	eM _E F	10 34 10 10 40 ±	W-A W-A	Grover, Wyo.
91	June 12	I	e _N eM _N F	10 46 40 10 48 10 10 56 ±	W-A W-A W-A	Grover, Wyo.
92	June 13	I	eP _E iS _N F	1 03 27 1 11 10 2 30 ±	W-A W-A W-A	Time approxi- mate.
93	June 15	I	e _E eL _E F	8 06 46 8 19 45 9 20 ±	W-A W-A W-A	
94	June 15	I	e _E e _E e _E eM _E F	21 21 46 21 52 01 21 37 51 21 57 45 22 40 ±	W-A W-A W-A W-A W-A	
95	June 18	I	e _E F	16 00 42 16 30 ±	W-A W-A	
96	June 19	I	eL _E F	14 27 55 15 30 ±	W-A W-A	
	June 21-26					E-W records spoiled by shift of light spot due to heat- ing of build- ing by sun and cooling at night.

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

One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
97	June 23	I	e _E	20 03 40	W-A	Time approxi- mate.
			e _E	20 10 00	W-A	
			eM _E	20 33 30	W-A	
			F	21 15 ±	W-A	
98	June 25	I	iP _N	10 27 17	W-A	Δ = 54.4 Peru.
			e _N	10 29 25	W-A	
			e _N	10 32 18	W-A	
			iS	10 34 53	W-A	
			F	11 50 ±	W-A	
99	June 25	I	e _N	12 12 39	W-A	Peru
			e _N	12 17 03	W-A	
			e _N	12 20 03	W-A	
			F	13 00 ±	W-A	
100	June 25	I	eP _N	21 31 09	W-A	Peru
			iP _{EN}	21 31 13	W-A	
			iS _E	21 38 49	W-A	
			iS _N	21 38 52	W-A	
			eL _N	21 44 40	W-A	
			F	23 00 ±	W-A	
101	June 26	I	e _E	20 49 27.8	W-A	Time approxi- mate. Felt at Lima, Ohio and vicinity.
			i _N	20 49 32.3	W-A short period.	
			i _N	20 49 33		
			e _E	20 50 33	W-A	
			i _E	20 50 37.7	W-A	
			iS _N	20 50 37.8	W-A short period.	
			i _E	20 50 39	W-A	
			eL _E	20 50 57	W-A	
			F	20 53 ±	W-A	
102	June 27	I	e _E	1 14 00	W-A	
			F	1 30 ±	W-A	



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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
103	June 27	I	e _N F	6 24 18 6 25 ±	W-A short period.	
104	June 27	I	e _N eL _N F	10 17 54 10 19 00 10 25 ±	W-A W-A W-A	
105	June 28	I	eP _N iS _N F	7 06 24 7 10 55 7 15 ±	W-A short period. W-A W-A	
106	June 29					E-W lost by shift of spot.
106	July 1	I	eP _E i _E i _E iS _E i _E eM _E F	1 15 43 1 15 44 1 16 35 1 20 51 1 23 11 1 26 05 3 00 ±	W-A W-A W-A W-A W-A W-A W-A	Time approxi- mate.
107	July 2	II	eP _E eP' _E iPR _{1E} eS _C P _C S _{EN} e _E ePS _{EN} e _E eL _E eM _N F	21 18 43 21 22 05 21 23 20 21 29 08 21 31 23 21 33 22 21 39 29 21 52 40 22 07 10 24 30 ±	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	Time approxi- mate. West- ern Assam. Very des- tructive in Dhubri.

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
108	July 3	I	e _N	21 30 20.7	W-A	Local Time approxi- mate.
			i _N	21 30 20.8	W-A	
			i _N	21 30 23.8	W-A	
			iL _N	21 30 24.2	W-A	
			i _N	21 30 28.9	W-A	
			i _N	21 30 29.4	W-A	
			F	21 31 ±	W-A	
109	July 5	I	e _E	18 16 59	W-A	
			e _E	18 24 09	W-A	
			eM _E	18 53 00	W-A	
			F	20 30 ±	W-A	
110	July 5	I	e _E	22 00 09	W-A	
			F	22 10 ±	W-A	
	July 6, 7, and 12					Part of E-W lost due to shift of light spot. All other E-W over- scored for same reason to July 14 when period was changed from 12.27 to 10.3 sec.
111	July 7	I	iP _N	2 30 47	W-A	Time approxi- mate.
			eS _N	2 34 34	W-A short period.	
			eS _N	2 34 35		
			F	2 45 ±	W-A	

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
112	July 7	I	eP _N	13 36 58	W-A	Twin earth- quakes. Pacific Ocean off coast of Guatamala (Time ap- proximate)
			eP _N	13 38 30	W-A	
			i _N	13 41 15	W-A	
			iS _N	13 41 23	W-A	
			i _N	13 41 31	W-A	
			iS _N	13 42 51	W-A	
			i _N	13 43 00	W-A	
			eL _E	13 45 15	W-A	
			eM _E	13 47 35	W-A	
F	14 15 ±	W-A				
113	July 7	I	iP _N	20 48 10	W-A	Time ap- proximate
			eS _N	20 52 37	W-A	
			F	21 30 ±	W-A	
114	July 13	I	eP _N	1 03 28	W-A	
			e _N	1 06 24	short and long	
			iS _N	1 06 43	W-A	
			iL _N	1 08 36	short and long	
			iM _N	1 09 17		
F	Covered by following					
115	July 13	I	e _N	1 36 16	W-A	
			eM _N	2 04 15	W-A	
			F	2 45 ±	W-A	
116	July 13	I	e _N	19 53 09	W-A	
			eM _N	20 24 15	W-A	
			F	21 00 ±	W-A	
117	July 14	III	eP _N	22 45 58	W-A	Time ap- proximate. Pacific Ocean off coast of Guatamala.
			iP _N	22 45 59	W-A	
			i _N	22 46 01	W-A	
			i(S) _N	22 50 02	W-A	
			iS _N	22 50 17	W-A	

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

One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
			i _E eL _E eM _{EN} F	22 50 22 22 54 50 22 56 10 28 30 ±	W-A W-A W-A W-A	
118	July 15	I	eP _N eS _N F	12 08 02 12 12 27 12 25 ±	W-A W-A W-A	
119	July 16	I	e _N F	10 43 47 10 50 ±	W-A W-A	
120	July 17	I	iP _E eS _{EN} F	18 35 29 18 39 42 19 00 ±	W-A W-A W-A	
121	July 20	I	eP _{EN} eS _E F	11 11 43 11 16 07 End covered by following.	W-A W-A	
122	July 20	I	iP _N eS _{EN} F	11 26 38 11 30 58 11 45 ±	W-A W-A W-A	
123	July 20	I	iP _E eS _{EN} F	13 00 15 13 04 40 13 25 ±	W-A W-A W-A	
124	July 22	I	eP _{EN} i(P) _E iPR _{1EN} eS _E e(S) _N eL _E F	19 38 00 19 38 45 19 41 10 19 48 02 19 48 47 20 02 20 20 30 ±	W-A W-A W-A W-A W-A W-A W-A	Kurile Islands

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
125	July 23	I	eP _N	0 20 28	W-A	Destructive in S. Central Italy.
			eS _E	0 30 32	W-A	
			eL _{EN}	0 43 20	W-A	
			eM _{EN}	0 50 10	W-A	
			F	1 00 ±	W-A	
126	July 23	I	eP _N	1 55 42	W-A	short period.
			eS _N	1 59 03		
			F	2 05 ±		
127	July 23	I	e _E	17 56 52	W-A	
			F	18 10 ±	W-A	
128	July 25	I	eP _E	21 39 22	W-A	
			iS _N	21 43 25	W-A	
			eL _N	21 45 48	W-A	
			F	22 45 ±	W-A	
129	July 27	I	eP _N	8 30 35	W-A	
			eS _N	8 34 49	W-A	
			F	8 45 ±	W-A	
130	July 27	I	eP _N	12 29 25	W-A	
			eS _N	12 33 55	W-A	
			F	12 50 ±	W-A	
131	July 27	I	iP _N	12 59 14	W-A	
			iS _N	13 03 13	W-A	
			F	13 25 ±	W-A	
132	July 27	I	iP _N	19 04 00	W-A	
			iS _N	19 08 25	W-A	
			F	20 15 ±	W-A	
133	July 28	I	e _N	9 43 36	W-A	
			F	9 50 ±	W-A	
134	July 29	I	i _N	6 29 38	W-A	
			iS _N	6 34 02	W-A	
			eL _N	6 37 30	W-A	
			F	7 35 ±	W-A	
135	July 30	I	e _N	22 33 44	W-A	
			F	22 40 ±	W-A	

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR AUGUST, 1930

The August Bulletin for the St. Louis Station in some way was overlooked and it has now been sent out to complete our records.

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
1	Aug. 4	I	eP _E	5 12 38	W-A	Appears to be a deep focus type of earthquake felt in Lima, Peru.
			iP _E	5 12 45	W-A	
			iE	5 12 51	W-A	
			iE	5 12 57	W-A	
			iS _E	5 19 06	W-A	
			iE	5 21 24	W-A	
			iE	5 21 26	W-A	
			F	6 22 ±	W-A	

This appears to be an earthquake of the deep-focus type. The evidence for this conclusion is the following: (1) There are no surface waves recorded on any of our records in St. Louis or Florissant. (2) The shock was felt in Lima, Peru, but the S-P distances for La Paz, Fordham, St. Louis, Cartuja fall far short of meeting at a common point. (3) Manila apparently recorded P₁ and PR₁ but both arrived 60 to 65 seconds ahead of schedule time. (4) The reflected wave phases do not fit the arrival times corresponding to the regular Travel Time Tables.

2	Aug. 5	I	eP _N	00 17 03	W-A	
			e _N	00 17 09	W-A	
			eS _{EN}	00 22 00	W-A	
			e _N	00 24 44	W-A	
			e _N	00 25 11	W-A	
			L _E	00 25 49	W-A	
			M _E	00 26 42	W-A	
			M _N	00 26 44	W-A	
F	00 35 ±	W-A				
3	Aug. 13	I	eS _E ?	17 22 32	W-A	
			e _E	17 22 56	W-A	
			F	17 23 ±	W-A	

BULLETIN FOR AUGUST, 1930

No.	Date	Chr.	Phase	G.M. Time h. m. s.	Instruments	Remarks
4	Aug. 18	III	eN	10 08 08	W-A	Epicenter: South Atlantic 57°S. 26°N Δ meas 108°
			eN	10 08 23	W-A	
			eN	10 08 38	W-A	
			iN	10 12 11	W-A	
			iN	10 12 46	W-A	
			iEN	10 14 58	W-A	
			iEN	10 15 03	W-A	
			iScPcS	10 18 38	W-A	
			iPSN	10 21 53	W-A	
			iN	10 22 44	W-A	
			iE	10 22 53	W-A	
			iSR ₁ N	10 27 53	W-A	
			LE	10 40 49	W-A	
			M	10 54 10	W-A	
W	12 18 ±	W-A				
F	12 25 ±	W-A				
5	Aug. 20	I	eN	9 20 35	W-A	
			eN	9 21 34	W-A	
			eN	9 22 09	W-A	
			eN	9 23 53	W-A	
			M	9 53 45	W-A	
			F	10 35 ±	W-A	
6	Aug. 20	I	eN	21 19 11	W-A	
			eN	21 20 35	W-A	
			eN	21 22 45	W-A	
			eN	21 22 36	W-A	
			eN	21 29 05	W-A	
			L	21 43 55	W-A	
			M	21 50 30	W-A	
			F	22 35 ±	W-A	
7	Aug. 23	I	eN	11 15 32	W-A	Time uncertain
			eN	11 20 18	W-A	
			eN	11 21 22	W-A	
			M	11 58 40	W-A	
			F	12 11 ±	W-A	

BULLETIN FOR AUGUST, 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
8	Aug. 28	I	iP _{EN}	13 44 22	W-A	$\Delta = S-P = 26.7$
			i ?	13 44 38	W-A	
			iS _{EN}	13 48 51	W-A	
			F	13 49 ±	W-A	
9	Aug. 29	I	eP _{EN}	6 26 49	W-A	Local earthquake. $\Delta = 147$ mi.
			iS	6 27 14	W-A	
			F	6 28 30	W-A	
10	Aug. 29	I	e _N	7 33 35	W-A	
			e _{EN}	7 38 10	W-A	
			F	7 40 ±	W-A	
11	Aug. 29	I	eP _{EN}	8 33 48	W-A	
			iP _{EN}	8 33 53	W-A	
			eS _N	8 38 55	W-A	
			L	8 41 15	W-A	
			M	8 49 20	W-A	
			End covered by next quake			
12	Aug. 29	I	iP _{EN}	9 03 49	W-A	
			e _N	9 04 32	W-A	
			eS ? _N	9 08 54	W-A	
			M	9 19 15	W-A	
			F	9 28 ±	W-A	
13	Aug. 31	I	e _N	00 45 15	W-A	
			M	00 52 26	W-A	
			F	01 05 ±	W-A	

Seismic movement was also recorded as follows: 1d. 7.3h-8.6h;
25d. 8.36h-8.5h.

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
	Sept. 1-5		Instruments not in operation			
136	Sept. 10	I	iP _{EN} iS _E iE _N F	23 13 04.7 23 13 06.5 23 13 09.3 23 14 ±	W-A W-A W-A	Quarry blast?
137	Sept. 17	I	eP _N eS _N F	3 20 58 3 25 58 4 00 ±	W-A W-A W-A	
138	Sept. 21	I	e _N eP _{S_N} eM _N F	23 28 42 23 33 47 24 10 00 25 30 ±	W-A W-A W-A W-A	Burma 26°N. 18°5 E.
139	Sept. 22	I	e _N e _N e _N eM _N F	1 53 00 1 57 37 2 00 02 2 30 30 4 20 ±	W-A W-A W-A W-A W-A	New Hebrides Islands.
140	Sept. 22	I	eP _N eS _N eM F	5 08 24 5 12 51 5 17 00 5 40 ±	W-A " " "	
141	Sept. 25	I	iP _N iE iS _E iE F	15 28 31.9 15 28 41.0 15 28 41.7 15 28 42.4 15 30 ±	W-A long and short W-A " " " W-A " " " W-A long and short W-A long and short	
142	Sept. 26	I	eP _N eS _N eL _N F	4 27 32 4 31 56 4 39 00 4 45 ±	W-A W-A W-A W-A	

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
142	Sept. 29	I	eP _E	22 51 34	W-A	Felt at Sidney, Ohio and at neighboring towns.
			e _E	22 51 38	W-A	
			eS _{EN}	22 52 36	W-A	
			i _N	22 52 41	W-A	
			i _E	22 52 44	W-A	
			F	22 54 ±	W-A	
143	Sept. 30	I	eP _N	20 41 44.3	W-A, long and short	About same distance as the above and possibly same epicenter
			iP _N	20 41 48.2	"	
			i _{EN}	20 41 50.1	"	
			iS _N	20 42 50.8	"	
			F	20 46 ±	"	
<p>Besides the above, unidentifiable phases of weak or distant earthquakes were recorded at 14d. 4.2.-6.7h.: 18d. 18.2-18.5h.: 20d. 2.3-2.5h.: 22d. 12.5-12.8h.: 25d. 13.1-13.7h.</p>						
144	Oct. 2	I	eP _E	17 37 16	W-A	Distance 600 km.
			e _{EN}	17 37 29	W-A long and short	
			e _N	17 38 18	W-A short	
			e _N	17 38 31	W-A	
			F	17 40 ±	"	
145	Oct. 5	I	iP _N	14 59 04	W-A	Quarry blast? Δ=about 20km. microseisms.
			iS _N	14 59 07	W-A	
			F	15 00 ±	W-A	
146	Oct. 8	I	ePR _{1E}	10 38 05	W-A	New Hebrides Islands. Δ = 108°
			e _N	10 45 48	W-A	
			e _E	10 47 00	W-A	
			iPS _E	10 47 23	W-A	
			eL _{EN}	10 08 35	W-A	
			eM _{EN}	10 13 30	W-A	
			F	13 00 ±	W-A	

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One Wiechert 80 Kg., two Wood-Anderson long period seismographs, Wiechert clock
BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
147	Oct. 11	I	eP _N	3 15 17	W-A	$\Delta = 50^{\circ}5$
			eS _N	3 22 28	W-A	
			eL _{EN}	3 31 00	W-A	
			F	4 00 \pm	W-A	
148	Oct. 11	I	eP _N	20 49 26.8	W-A short	Local
			iN	20 49 29.3	W-A short	
			F	20 50 \pm		
149	Oct. 12	I	eP _N	10 48 00	W-A long and short	
			iN	10 48 03.6	" " " "	
			iN	10 48 35.8	" " " "	
			F	10 51 \pm	" " " "	
150	Oct. 17	I	iP _E	1 35 47	W-A	
			eS _E	1 40 39	W-A	
			F	1 50 \pm	W-A	
151	Oct. 17	I	iP _{EN}	8 58 04	W-A l and s	Dilatation. No record on N long. Twin quake. Epicenter 33°S. 72°W. Prominent P and S as compared with L and M and short S-P distance suggest deep focus.
			iP _{EN}	8 58 28	" " " "	
			i _{EN}	8 58 35	" " " "	
			iS _E	9 07 23	W-A long	
			iS _{EN}	9 07 58	W-A l and S	
			i _E	9 08 31	W-A long	
			F	10 10 \pm		
152	Oct. 19	I	eP _N	11 14 16	W-A	$\Delta = 55^{\circ}5$
			iS _N	11 21 59	W-A	
			L	11 37 30	W-A	
			F	11 45 \pm	W-A	
153	Oct. 19	I	iP _N	12 17 13	W-A	
			iS _N ?	12 19 26	W-A	
			F	12 30 \pm	W-A	
Oct. 20-21		Strong microseisms				

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char!	Phase	G.M. Time h. m. s.	Instruments	Remarks
154	Oct. 21	I	eP _N	19 43 32.1	W-A short	Local, perhaps quarry blast.
			i _N	19 43 34.1	W-A "	
			i _N	19 43 35.1	W-A "	
			i _N	19 43 36.5	W-A l and short.	
			F	19 45 ±		
155	Oct. 22	I	eP _N	20 13 46	W-A l and short.	Δ = 37.9 No surface waves.
			eS _E	20 19 35	" "	
			F	20 21 ±		
156	Oct. 23	I	eP _N	8 57 05	W-A l and s	
			eL _N	9 35 30	W-A	
			F	10 30 ±	W-A	
157	Oct. 24	I	eP _N	2 19 12	W-A l and s.	Δ = 45.7 No surface waves.
			eS _E	2 25 53	W-A	
			F	2 30 ±		
158	Oct. 24	I	eP _{EN}	20 29 93	W-A	
			e _{EN}	20 32 39	W-A	
			iS _C P _C S _{EN}	20 39 40	W-A	
			iP _S _{EN}	20 42 23	W-A	
			eL _{EN}	20 57 40	W-A	
			F	23 00 ±	W-A	
159	Oct. 25	I	iP _{EN}	12 11 26	W-A s and l.	Compression 58°N. 154°W.
			iS _{EN}	12 18 02	W-A	
			iSR _{1E}	12 21 24	W-A	
			eL _{EN}	12 27 20	W-A	
			F	13 00 ±	W-A	
October 25-26-27-28-29. Strong microseisms.						

Besides the above surface waves of weak or distant earthquakes were recorded on the W-A long period at 1d. 14.2-15.3h.: 22d. 19-19.3 h.: 23d. 21.6-22.7h.: 30d. 7.4-8.2h.: 31d. 10.8-12.8h.

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

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
160	Nov. 1	I	iP _{EN}	16 46 37	W-A 1 and S	$\Delta = 46^{\circ}9$
			i _E	16 46 46	W-A 1 and S	
			iS _{EN}	16 53 27	W-A long	
			e _{EN}	16 53 42	W-A long	
			eL _N	17 03 00	W-A long	
			F	17 30 \pm		
161	Nov. 4	I	iP _N	5 48 25	W-A	$\Delta = 23^{\circ}7$
			eS _N	5 52 32	W-A	
			F	6 10 \pm	W-A	
Nov. 6-7		Microseisms				
162	Nov. 8	I	eP _N	1 15 59	W-A s.	$\Delta = 23^{\circ}7$
			eS _E	1 20 06	W-A l.	
			eL _{EN}	1 25 00	W-A l.	
			F	1 40 \pm	W-A l.	
163	Nov. 9	I	e _N	19 30 30	W-A	
			e _N	19 34 30	W-A	
			e _N	19 41 00	W-A	
			e _N	19 47 00	W-A	
			F	21 45 \pm	W-A	
164	Nov. 10	I	eP _{EN}	14 04 35	W-A	$\Delta = 50^{\circ}3$
			eS _N	14 11 35	W-A	
			e _N	14 15 45	W-A	
			e _N	14 20 00	W-A	
			eL _N	14 48 00	W-A	
			F	15 00 \pm	W-A	
165	Nov. 12	I	iP _{EN}	19 19 42	W-A	$\Delta = 53^{\circ}6$
			iS _{EN}	19 27 13	W-A	
			F	20 40 \pm	W-A	
166	Nov. 13	I	eP _N	17 19 16	W-A	$\Delta = 55^{\circ}6$
			eL _{EN}	17 27 00	W-A	
			F	17 35 \pm	W-A	

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock
BULLETIN FOR 1930

No.	Date	Char.	Phase	G. N. Time h. m. s.	Instruments	Remarks
	Nov. 14.13		to 19.17	Instruments not in operation.		
167	Nov. 20	I	iP _N iS _E i(L) _N i _N i _N F	20 41 39 20 41 42.6 20 41 43 20 41 58.6 20 41 59.1 20 43 ±	W-A W-A W-A W-A W-A W-A	Quarry blast?
168	Nov. 24	I	eP _N e _N iS _N eE F	6 14 42 6 16 44 6 20 59 6 24 34 6 35 ±	W-A W-A W-A W-A W-A	$\Delta = 42^{\circ}.1$
169	Nov. 25	I	eP _N eS _N F	8 44 55 8 48 50 9 40 ±	W-A W-A W-A	$\Delta = 22^{\circ}.2$
170	Nov. 25	I	eP _N ? eS _C P _C S _N iS _E eL _{EN} F	19 16 01 19 26 41 19 27 21 19 27 21 19 49 25	W-A W-A W-A W-A W-A	Epicenter, Izu Peninsula, Japan.
	November 26		Microseisms			
171	Nov. 28	I	eP _{EN} iP _{EN} eS _E iS _N i _N eL _{EN} iM _{EN} F	7 38 12 7 38 17 7 42 36 7 42 40 7 42 46 7 45 31 7 46 46 9 30 ±	W-A W-A W-A W-A W-A W-A W-A W-A	Epicenter 18° N. 108° W.
172	Nov. 30	I	eP _{EN} iP _{EN} eS _{EN} iS _{EN} eL _{EN} F	21 36 01 21 36 03 21 40 26 21 40 31 21 43 45 22 30 ±	W-A W-A W-A W-A W-A W-A	Epicenter 18° N. 108° W.

Besides the above there were traces at the following times:

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
173	Dec. 2	I	e _N	7 49 00	W-A	
			eL _N	8 04 00	W-A	
			M _{EN}	8 13 00	W-A	
			F	8 25 ±	W-A	
Dec. 2-3 Microseisms, maximum at 6h. to 12h. on 3rd.						
174	Dec. 3	I	e _E	19 11 37	W-A	Destructive in Burma. Time un- certain.
			e _N	19 19 27	W-A	
			i _N	19 22 17	W-A	
			i _N	19 23 42	W-A	
			i _N	19 25 51	W-A	
			eL _E	19 38 47	W-A	
F	21 15 ±	W-A				
175	Dec. 6	I	eP _{EN}	7 12 54	W-A	Δ = 54 ^o .7
			eS _E	7 20 32	W-A	
			iS _N	7 20 34	W-A	
			i _N	7 22 37	W-A	
			eL _{EN}	7 29 00	W-A	
			eM _{EN}	7 34 00	W-A	
			F	8 20 ±	W-A	
176	Dec. 8	I	e _{EN}	17 45 57	W-A	
			e _{EN}	17 55 00	W-A	
			e _N	18 08 27	W-A	
			eL _{EN}	18 17 00	W-A	
			F	19 10 ±	W-A	
177	Dec. 9	I	iP _{EN}	19 21 02	W-A	Δ = 22 ^o .4
			eS _{EN}	19 24 59	W-A	
			iS _{EN}	19 25 06	W-A	
			eL _{EN}	19 27 31	W-A	
			F	19 45 ±	W-A	
Dec. 10-12 Microseisms.						
Dec. 14-18 Microseisms, maxima at 16h. to 24h. on 14th. 15h. to 20h. on 16th.						

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One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

BULLETIN FOR 1930

No.	Date	Char.	Phase	G.M. Time h. m. s.	Instruments	Remarks
178	Dec. 21	I	e _E	7 48 35	W-A	Time uncertain.
			e _N	7 49 12	W-A	
			F	8 35 ±	W-A	
179	Dec. 21	I	e _{P_N}	15 10 25	W-A	Time uncertain.
			i _{P_{EN}}	15 10 39	W-A	
			e _{S_N}	15 16 09	W-A	
			F	16 10 ±	W-A	
180	Dec. 23	I	i _P	14 44 00	Wiechert	Epicenter near Fern Glen 15.5 mi W.S.W. Felt in western part of St. Louis. Intensity III-IV.
			i _S	14 44 03.1	"	
			F	14 45 ±	"	
			Lost on W-A during change of record sheets.			
181	Dec. 24	I	e _N	6 13 56	W-A	
			e _{EN}	6 22 05	W-A	
			L _{EN}	6 39 00	W-A	
			F	7 10 ±	W-A	
Dec. 27-30 Microseisms, maxima at 2h to 14h on 28th. 12h. to 18 h. on 29th.						

Traces of seismic movement at the following times:
 2d. 8.5h. 8.9h; 8d. 9.1h. 9.3h; 10d. 4.1h. 4.3h; 11d. 9.1h.
 9.3h; 22d. 0.8h. 1.7h; 23d. 22.1h. 23.2h; 26d. 13.2h. 13.5h.