

SAINT LOUIS

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 1937

1.

No.	Date	Inst.	Phase	G. M. C. T.	Remarks
1	Jan 7	W-A	e(P') _N	13h38m50s	$\Delta_{PR_1-H} = 105^{\circ}2$ H = 13h20m40s Epicenter: 36 $^{\circ}$ 1 N, 98 $^{\circ}$ 6 E. Normal.
		W-A	ePR ₁ NE	13 39 09	
		W-A	ePR ₂ N	13 41 19	
		W-A	iSKS _{NE}	13 45 09	
		W-A	iSKKS _{NE}	13 45 37	
		W-A	iS _{NE}	13 46 27	
		W-A	eE	13 48 03	
		W-A	eSP _{NE}	13 48 07	
		W-A	iPP _{SN}	13 48 27	
		W-A	iSR ₁ NE	13 53 37	
		W-A	iSR ₂ N	13 57 45	
		W-A	iL _{NE}	14 10 40	
		W-A	iM _{NE}	14 18 56	
		W-A	F	16 00 +	
2	Jan 8	W-A	e(P) _N	9h31m47s	$\Delta_{S-P} = 70^{\circ}5$ La Plata Reports: Felt in Temuco, South Central Chile.
		W-A	eE	9 40 59	
		W-A	eS _{NE}	9 41 04	
		W-A	F	9 42 +	
3	Jan 11	W-A	iP _{NE}	13h26m13s	$\Delta_{S-P} = 23^{\circ}3$ H = 13h21m16s Epicenter: Vicini- ty of 15 $^{\circ}$ 6 N, 95 $^{\circ}$ 5 W. Depth by the Brunner Depth Chart 120 km.
		W-A	ipP _{NE}	13 26 33	
		W-A	iPR ₁ N	13 26 48	
		W-A	ipPR ₁ NE	13 27 06	
		W-A	iN	13 29 35	
		W-A	iP _C P _{NE}	13 29 45	
		W-A	iS _{NE}	13 30 17	
		W-A	is _{SN}	13 30 55	
		W-A	iSR ₁ NE	13 31 12	
		W-A	isSR ₁ NE	13 31 35	
		W-A	F	(Lost in next earthquake)	
4	Jan 11	W-A	iPN	13h49m19s	Aftershock of No. 3.
		W-A	ipPN	13 49 39	
		W-A	iN	13 50 33	
		W-A	eS _E	13 53 22	
		W-A	e(S) _N	13 53 35	
		W-A	eE	13 53 58	
W-A	F	14 00 +			

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
5	Jan 19	W-A	ePNE	22h24m51s	
		W-A	eN	22 28 46	
		W-A	e(S)E	22 29 46	
		W-A	eSR ₁ N	22 30 58	
		W-A	eSR ₁ E	22 31 00	
		W-A	F	23 00 +	
6	Jan 23	W-A	ePR ₁ E	11h15m22s	In vicinity of Salomon Isle. ΔSP-SKS = 10790 Strasbourg gives 190 S, 15790 E.
		W-A	eNE	11 15 51	
		W-A	eE	11 16 47	
		W-A	ePR ₂ NE	11 17 13	
		W-A	eNE	11 20 03	
		W-A	eSKSNE	11 21 03	
		W-A	eSPNE	11 24 03	
		W-A	ePPSNE	11 25 08	
		W-A	e(SR ₁)N	11 30 03	
		W-A	eN	11 31 00	
		W-A	eE	11 35 13	
		W-A	eLE	11 46 33	
		W-A	eME	11 51 58	
		W-A	F	12 30 +	
7	Jan 25	W-A	eE	6h51m46s	ΔS-H = 10995 H = 6h34m00s Epicenter: 1096 S, 16393 E. Depth: Normal.
		W-A	eE	6 52 39	
		W-A	eE	6 52 45	
		W-A	ePR ₁ E	6 52 59	
		W-A	eE	6 54 30	
		W-A	eSKSE	6 59 07	
		W-A	eE	6 59 11	
		W-A	eE	6 59 17	
		W-A	eSKKSE	7 00 11	
		W-A	iSE	7 00 43	
		W-A	iE	7 00 50	
		W-A	eSPE	7 02 19	
		W-A	ePPSE	7 03 19	
		W-A	eSR ₁ E	7 08 33	
		W-A	eLE	7 25 17	
		W-A	eME	7 31 57	
W-A	F	9 00 +			

Minor Seismic Activity: Jan. 14, 9h48m to 9h50m; Jan. 15, 5h11m to 5h16m; Jan. 17, 1h00m to 1h04m; Jan 20, 19h51m to 19h55m; Jan 21, 19h58m to 20h03m.

J. B. Macelwane S.J.
Director

R. R. Heinrich
Graduate Fellow

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3.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
8.	Feb 1	W-A W-A	eME F	21h26m21s 21 34 ±	
9.	Feb 4	W-A W-A W-A W-A W-A W-A W-A	ePE ePN ePR _{2E} eSNE eLNE eMNE F	10h38m56s 10 38 58 10 39 56 10 43 45 10 48 48 10 49 18 11 05 ±	$\Delta_{S-P} = 27^{\circ}7$ H = 10h33m04s Probable region 49°5 N, 126°4 W.
10.	Feb 15	W-A W-A W-A W-A W-A W-A	e(P) _N e(S) _{NE} eNE iNE iNE F	2h23m13s 2 27 57 2 28 06 2 31 05 2 31 34 2 45 ±	
11.	Feb 21	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	e(P) _{NE} ipPNE ipP _C PNE iNE ePR ₁ N ipPR ₁ NE e(PR ₂) _N eE eSN iSNE iSSNE iXNE eLE eME F	7h15m00s 7 15 04 7 15 12 7 15 22 7 17 57 7 18 11 7 20 02 7 20 15 7 25 01 7 25 03 7 25 24 7 35 00 7 40 37 7 48 27 (Lost in next earthquake)	$\Delta_{meas} = 81^{\circ}0$ Epicenter: 45.2 N 148°6 E. H = 7h03m45s Depth by the Brunner Depth Chart 50 to 60 km
12.	Feb 21	W-A W-A W-A	e(P) _{NE} e(S) _E F	7h39m03s 7 49 35 10 00 ±	Aftershock of No. 11.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
13	Feb 21	W-A W-A W-A	e(P) _E i _{SE} F	11h04m32s 11 14 33 12 00 ±	Aftershock of No. 11.
14	Feb 22	W-A W-A W-A W-A	e _{NE} i _{NE} e _{LNE} F	1h31m15s 1 31 19 1 33 21 1 40 ±	
15	Feb 23	W-A W-A W-A W-A W-A	e(P) _E e _{SE} i _{SE} e _{LE} F	1h00m43s 1 10 34 1 10 37 1 25 59 2 00 ±	Aftershock of No. 11.
16	Feb 24	W-A W-A W-A W-A W-A	e _{NE} i _{NE} e _E e _E F	19h04m13s 19 04 15 19 05 25 19 05 57 19 07 ±	
17	Feb 25	W-A W-A W-A W-A W-A	e _E e _{NE} e _{NE} e _{NE} F	6h08m34s 6 09 26 6 10 00 6 13 48 6 17 ±	

Minor Seismic Activity: Feb. 10, 9h29m to 9h32m; Feb. 12, 12h27m to 12h34m; Feb. 26, 5h00m to 16h00m. Microseismic activity throughout Feb. 26 and Feb. 27.

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No.	Date	Inst.	Phase	G.M.C.T.	Remarks
18	Mar. 2	W-A W-A W-A W-A W-A	iP _n iP* iP _g iS _n iS*	14h48m49s 14 48 59 14 49 16 14 49 48 14 50 05	$\Delta S_n - P_n = 4^{\circ}9$ Epicenter near 84 ^o 2 W, 40 ^o 4 N. H=14h47m33s Considerable damage in Anna, Ohio, region. Intensity at Anna about VII on the Wood Neuman Scale.
19	Mar. 3	W-A W-A W-A W-A W-A	eP _E e(S) _{NE} eNE eNE F	9h28m28s 9 34 56 9 36 08 9 36 50 9 45 +	No surface S indistinct
20	Mar. 5	W-A W-A W-A	eNE eNE F	23h28m43s 23 34 43 23 42 +	
21	Mar. 9	W-A W-A W-A W-A W-A	eP _n iP _n iP* iS _n iS*	5h45m48s 5 45 49 5 45 59 5 46 46 5 47 02	$\Delta S_n - P_n = 4^{\circ}8$ Epicenter 84 ^o 2 W, 40 ^o 4 N. H = 05h44m33s Similar to No. 18. Felt over a larger area with a greater intensity.
22	Mar. 9	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	iP _n ipP _{NE} ePR _{1N} ipPR _{1NE} iPR _{2N} iS _{NE} isS _{NE} iSR _{1NE} isSR _{1NE} eL _{NE} eM _{NE} F	15h46m32s 15 46 41 15 47 24 15 47 35 15 47 42 15 51 19 15 51 36 15 53 02 15 53 22 15 55 32 15 59 16 17 00 +	$\Delta S - P = 28^{\circ}5$ Epicenter 10 ^o .6 N, 83 ^o .4 W. H = 15h40m38s Depth of focus 50+ Km. by Brunner Depth Chart.
23	Mar. 10	W-A W-A	eL _N F	5h18m57s 5 37 +	

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
24	Mar. 14	W-A	eP _{NE}	12h06m31s	$\Delta_S - P = 65^{\circ}1$ H = 11h56m01s Depth about 80 Kms. by the Brunner Depth Chart. Minor damage at Taltal, Chile.
		W-A	iP _{NE}	12 06 32	
		W-A	i _{NE}	12 06 35	
		W-A	ip _{PN}	12 06 47	
		W-A	i _N	12 06 59	
		W-A	iS _{NE}	12 15 12	
		W-A	esS _{NE}	12 15 37	
		W-A	esS _{PN}	12 16 22	
		W-A	e _N	12 16 57	
		W-A	eSR _{1N}	12 19 33	
W-A	F	12 45 +			
25	Mar. 17	W-A	e(P) _{NE}	14h06m35s	
		W-A	e(S) _{NE}	14 11 36	
		W-A	e _{NE}	14 12 50	
		W-A	e _{NE}	14 13 12	
		W-A	eL _{NE}	14 13 32	
		W-A	F	14 45 +	
26	Mar. 19	W-A	iP _N	18h23m05s	$\Delta_S - P = 70^{\circ}3$ Depth by Brunner Chart about 80 Kms. Region Pacific Coast of Chile.
		W-A	eP _E	18 23 05	
		W-A	ip _{NE}	18 23 18	
		W-A	i _{NE}	18 23 32	
		W-A	eS _N	18 32 14	
		W-A	eS _E	18 32 17	
		W-A	esS _N	18 32 38	
		W-A	F	18 35 +	
27	Mar. 21	W-A	e(S) _{NE}	19h52m46s	
		W-A	e _E	19 53 18	
		W-A	F	19 56 +	
28	Mar. 23	W-A	iP _N	0h56m04s	
		W-A	i _N	0 56 36	
		W-A	i _N	0 57 00	
		W-A	e(S) _E	1 05 49	
		W-A	F	1 9 +	
29	Mar. 24	W-A	e _E	1h32m40s	Indistinct
		W-A	eL _E	1 45 00	
		W-A	F	2 30 +	
30	Mar. 25	W-A	eP _E	16h53m59s	$\Delta_P - H = 22^{\circ}0$ Epicenter 33 ^o 4 N, 116 ^o .7 W. H=16h49m04s Felt in Southern Cali- fornia. Pasadena asso- ciates epicenter with San Jacinto fault.
		W-A	iP _{NE}	16 54 01	
		W-A	iPR _{1NE}	16 54 22	
		W-A	e _E	16 56 11	
		W-A	eS _{NE}	16 58 08	
		W-A	e(SR ₁) _E	16 58 34	
		W-A	eL _{NE}	16 59 56	
		W-A	e _E	17 00 26	
		W-A	eM _{NE}	17 01 53	
		W-A	F	17 25 +	

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31	Mar. 26	W-A	e _E	21h15m03s	
		W-A	e _M NE	21 23 53	
		W-A	F	21 40 ±	
32	Mar. 29	W-A	e _P NE	7h59m28s	
		W-A	i _P NE	7 59 59	
		W-A	e _S N	8 07 12	
		W-A	i _S NE	8 07 16	
		W-A	i _S NE	8 08 03	
		W-A	e _E	8 09 05	
		W-A	e _N	8 09 46	
		W-A	F	8 11 ±	

Minor Seismic Activity: Mar. 5, 22h9m to 22h14m; Mar. 10, 18h00m to 20h00m; Mar. 21, 3h56m to 4h03m; Mar. 26 15h56m to 16h02m.

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No.	Date	Inst.	Phase	G. M. C. T.	Remarks
33	Apr. 5	W-A W-A W-A W-A	e _E e _E e _E F	6h55m56s 6 57 22 6 59 32 lost in next earthquake	
34	Apr. 5	W-A W-A W-A W-A W-A	e _E e(SKP) _E i _E e _E F	7h17m47s 7 18 47 7 26 21 7 26 23 8 30 + -	Epicenter by Florissant near 199 S, 133°7 E. H = 06h56m27s Δ = 126.2 (longer if deep focus).
35	Apr. 13	W-A W-A W-A W-A W-A W-A	e _{PN} i _{PN} e _N e _N e _L _N F	5h14m50s 5 14 51 5 15 09 5 16 04 5 24 59 5 35 + -	
36	Apr. 16	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	e _E i _E i _E i _E i _E e _E i _E i _E i _E i _E i _E i _E i _E i _E i _E i _E i _E i _E i _E F	3h14m47s 3 14 53 3 14 56 3 16 18 3 19 05 3 21 05 3 25 00 3 25 38 3 26 10 3 27 38 3 28 38 3 29 08 3 29 50 3 33 17 3 37 50 6 00 + -	Reverend A. J. Westland of St. Louis University is studying this earthquake in detail.
37	Apr. 19	W-A W-A W-A W-A	i _E i _E i _E F	1h07m50s 1 07 53 1 07 58 1 09 + -	Possibly near earthquake.

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No.	Date	Inst.	Phase	G.M.C.T.	Remarks
38	Apr. 22	W-A	e _E	22h50m21s	Similar to No. 37.
		W-A	i _E	22 50 23	
		W-A	i _F	22 50 58	
		W-A	F	22 52 + -	
39	Apr. 25	W-A	e _E	10h36m50s	
		W-A	e _E	10 36 56	
		W-A	e _E	10 43 09	
		W-A	e _E	10 43 15	
		W-A	i _E	10 45 33	
		W-A	F	11 00 + -	
40	Apr. 29	W-A	e _{PE}	18h19m20s	$\Delta S-P = 40^{\circ}2$ Epicenter region of 3490 W, 53.4 N. H = 18h11m42s Normal.
		W-A	e _{PR1NE}	18 20 56	
		W-A	i _{SNE}	18 25 36	
		W-A	i _{SR1E}	18 26 43	
		W-A	e _{LE}	18 32 25	
		W-A	e _{ME}	18 34 49	
		W-A	F	Lost in changing records.	
41	Apr. 29	W-A	i _{PNE}	20h30m53s	lost in following earthquake.
		W-A	ip _{PE}	20 31 03	
		W-A	e _F	20 37 52	
		W-A	F		
42	Apr. 29	W-A	i _{PNE}	20h50m40s	
		W-A	ip _{NE}	20 50 50	
		W-A	F	20 52 + -	

Minor Seismic Activity: April 3, 4h25m to 5h30m; April 6, 7h55m to 8h00m.

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43	May 1	W-A W-A W-A W-A W-A	e(P) _E e _E e _E e _E F	15h29m37s 15 37 09 15 38 19 15 39.6 15 53 ±	Weak
44	May 2	W-A	eM _N	00h05.6 m 00 13 ±	Trace
45	May 4	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	eP _{NE} e _N e _E eS _{NE} e _N e _E eL _N eL _E eM _{NE} F	05h16m55s 05 18 42 05 18 43 05 23 30 05 26 44 05 26 58 05 30.3 05 31.0 05 32.7 06 14 ±	$\Delta_{S-P} = 43^{\circ}5$ $\Delta_{meas} = 43^{\circ}9$ H = 05h08m53s $\phi = 59^{\circ}4$ N. $\lambda = 152^{\circ}9$ W.
46	May 7	W-A W-A W-A W-A W-A	eP _E e _E iS _E esS _E F	14h19m43s 14 19 44 14 26 45 14 27 05 14 50 ±	$\Delta_{S-P} = 48^{\circ}5$ $\Delta_{meas} = 48^{\circ}4$ H = 14h11m15s h = 80 -90 km by Brunner Depth Chart $\phi = 57^{\circ}7$ N. $\lambda = 160^{\circ}9$ W. Epicenter on the basis of data of Weston, Victoria, Manila, Chiufeng, Ksara.
47	May 8	W-A W-A W-A W-A	e _E e _E e _E F	20h04m50s 20 09 34 20 14 47 (Lost in microseisms)	Weak

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
48	May 9	W-A	e(P _c P) _E	14h59m07s	Beginning poor $\Delta_{\text{meas}} = 80^{\circ}7$ According to Florissant $\phi = 45^{\circ}7$ N. $\lambda = 149^{\circ}0$ E.
		W-A	e _N	14 59 09	
		W-A	e _E	15 09 01	
		W-A	e(S) _{NE}	15 09 05	
		W-A	e _E	15 09 12	
		W-A	e(L) _N	15 24.5	
		W-A	e(L) _E	15 24.6	
		W-A	eM _E	15 33.9	
W-A	F	16 09 \pm			
49	May 10	W-A	e _E	15h48m26s	Weak (Lost in changing records)
		W-A	i _E	15 49 22	
		W-A	e _E	15 51 54	
		W-A	e _E	15 54 09	
		W-A	F		
50	May 12	W-A	e(P) _E	00h15m30s	Weak
		W-A	e _E	00 23 18	
		W-A	e(S) _E	00 23 59	
		W-A	F	00 31 \pm	
51	May 12	W-A	eP _E	03h04m56s	Possibly somewhat deep (Lost in microseisms) According to Chiu-feng $\phi = 3^{\circ}0$ S. $\lambda = 142^{\circ}5$ E.
		W-A	e _E	03 04 57	
		W-A	e _E	03 14 48	
		W-A	F		
52	May 12	W-A	iP _E	22h57m19.5s	Near earthquake or blast
		W-A	i _E	22 57 20.5	
		W-A	i _E	22 57 24.5	
		W-A	e(S) _E	22 57 26.5	
		W-A	F	22 59 \pm	
53	May 13	W-A	eP _E	09h23m42s	
		W-A	e _E	09 24 12	
		W-A	e _E	09 24 20	
		W-A	e(S) _E	09 28 09	
		W-A	e _E	09 28 11	
		W-A	e _E	09 30 02	
		W-A	eL _E	09 31.5	
		W-A	F	10 00 \pm	

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No.	Date	Inst.	Phase	G.M.C.T.	Remarks
54	May 13	W-A W-A W-A W-A W-A	iP _N i _M iS _N e _F F	21h03m39s 21 03 43 21 07 58 21 08 46 (Lost in microseisms)	No surface waves Only a trace on E.W.
55	May 16	W-A W-A W-A	e _N e(M) _{NE} F	12h05m42s 12 32.6 13 03 ±	Weak Time doubtful
56	May 17	W-A W-A W-A W-A W-A W-A W-A	ePn _N i _N e _E i _{NE} i _E iS _{NE} i _F F	00h50m30.9s 00 50 31.9 00 50 34.9 00 51 01.9 00 51 02.9 00 51 04.9 00 51 06.4 01 01 ±	$\Delta_{Sn-Pn} = 2^{\circ}73$ =298 km. = 186 mi. $\Delta_{meas} = 186$ mi H = 00h49m46.4s $\phi = 35^{\circ}9$ N. $\lambda = 90^{\circ}4$ W. Northeastern Arkansas
57	May 19	W-A W-A W-A W-A W-A	iP _N e _E e _{NE} i _N F	20h22m46s 20 22 49 20 22 50 20 22 51 20 24 ±	Near earthquake or blast
58	May 21	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	eP _E iP _N i _N i _N e(PR ₂) _E e(SCP) _E e(SCP) _N e _E e _N eSR _{2E} e _N e _{NE} F	13h19m33s 13 19 35 13 19 36 13 19 51 13 21 08 13 25 18 13 25 19 13 25 54 13 25 55 13 28 21 13 28 46 13 29 42 13 38 ±	$\Delta_{P-H} = 37^{\circ}6$ $\Delta_{meas} = 37^{\circ}7$ near normal depth $\phi = 2^{\circ}3$ N. $\lambda = 78^{\circ}5$ W. H = 13h12m17s Epicenter based on data of San Juan, Philadelphia, Little Rock, Florissant, Huancayo, and Weston.

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59	May 23	W-A	eP _N	18h43m38s	$\Delta S-P = 23^{\circ}0$ Probably a fore-shock of No. 61. h = 100 km. by Brunner Depth Chart
		W-A	iP _{NE}	18 43 39	
		W-A	ep _{NE}	18 43 54	
		W-A	iPR _{1N}	18 44 05	
		W-A	isP _N	18 44 13	
		W-A	eS _{NE}	18 47 48	
		W-A	C _E	18 47 50	
		W-A	ess _N	18 48 17	
		W-A	eSR _{1NE}	18 48 33	
		W-A	F	19 02 ±	
60	May 24	W-A	iP _N	00h47m33s	Foreshock of No. 61. Deep focus
		W-A	e _E	00 47 38	
		W-A	i _N	00 47 49	
		W-A	e(S) _N	00 52 12	
		W-A	e _N	00 53 20	
		W-A	F	01 22 ±	
61.	May 28	W-A	eP _N	15h40m36s	$\Delta S-P = 23^{\circ}0$ h = 120 km. by Brunner Depth Chart H = 15h35m43s Region Acapulco Deep
		W-A	i _{NE}	15 40 37	
		W-A	ip _{P_N}	15 40 55	
		W-A	iPR _{1NE}	15 41 10	
		W-A	esP _{NE}	15 41 16	
		W-A	i _E	15 41 39	
		W-A	e _N	15 44 14	
		W-A	i _N	15 44 20	
		W-A	iS _{NE}	15 44 26	
		W-A	i _N	15 44 32	
		W-A	eSR _{1N}	15 45 05	
		W-A	i _M	15 45 34	
		W-A	F	16 09 ±	
		Clock not in operation May 29 - 30.			

Minor Seismic Activity

May 13	19h09m	to	19h13m
May 15	21 08	to	21 10
May 23	08 23	to	08 25
May 25	01 19	to	06 54

J. B. Macelwane, S.J.,
 Director

F. Robertson
 Graduate Fellow

SAINT LOUIS

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 1937

14.

No.	Date	Inst.	Phase	G. M. C. T.	Remarks
62	June 2	W-A	ePN	21 ^h 09 ^m 25 ^s	Weak
		W-A	ePE	21 09 25	
		W-A	eN	21 09 45	
		W-A	eN	21 10 25	
		W-A	eN	21 14 20	
		W-A	eN	21 15 03	
		W-A	eMNE	21 17 17	
		W-A	F	21 40 +	
63	June 3	W-A	iPN	10 ^h 59 ^m 35 ^s	
		W-A	iPR ₁ N	10 59 57	
		W-A	iPR ₂ N	11 00 08	
		W-A	iSR ₁ N	11 04 16	
		W-A	F	11 07 +	
64	June 5	W-A	eN	14 ^h 54 ^m 13 ^s	Time uncertain
		W-A	eN	15 00 35	
		W-A	eLN	15 01 59	
		W-A	F	15 08 +	
65	June 7	W-A	iPN	23 ^h 47 ^m 50 ^s	
		W-A	iE	23 47 52	
		W-A	iN	23 47 54	
66	June 8	W-A	iSNE	0 ^h 24 ^m 40 ^s	Near earthquake New Madrid Region
67	June 8	W-A	iPNE	22 ^h 34 ^m 28 ^s	$\Delta S-P = 22.4$ Epicenter: 92°7' W, 16°3' N. H = 22 ^h 29 ^m 45 ^s Depth 200 km. by the Brunner Depth Chart. This epicenter and ori- gin time replaces epicen- ter: 92°6' W, 14°7' N. H = 22 ^h 39 ^m 35 ^s of Prelimi- nary Bulletin No. 12.
		W-A	ipPN	22 35 04	
		W-A	i(pPR ₁)NE	22 35 22	
		W-A	iN	22 36 16	
		W-A	ePcR _N	22 38 16	
		W-A	iSNE	22 38 25	
		W-A	esSNE	22 39 29	
		W-A	iSR ₁ N	22 39 33	
		F	23 15 +		
68	June 13	W-A	ePE	23 ^h 29 ^m 05 ^s	$\Delta S-P = 23.7$ H = 23 ^h 23 ^m 53 ^s Epicenter Region of 15°0' N, 98°0' W. Depth nearly normal
		W-A	ePE	23 29 06	
		W-A	e(IP) _E	23 29 11	
		W-A	eSE	23 33 22	
		W-A	eSR ₁ E	23 34 20	
		W-A	eME	23 40 21	
		F	23 55 +		

No.	Date	Inst.	Phase	G. M. C. T.	Remarks
69	June 18	W-A	eP _E	9h12m29s	
		W-A	e(S) _E	9 16 47	
		W-A	e _E	9 19 33	
		W-A	e _E	9 21 43	
		W-A	F	9 28 +	
70	June 21	W	iP _N	15h21m38s	$\Delta P-H = 46.6$ Epicenter: 6°8 S, 79°9 W. H = 15h13m17s Depth by Brunner Depth Chart about 50 Km. Reported felt along the western coast of Peru.
		W	i _N	15 21 51	
		W	iP _C _R _N	15 22 23	
		W	ePR ₁ _N	15 23 32	
		W	e _N	15 26 28	
		W	iS _N	15 28 31	
		W	eSR ₁ _N	15 31 43	
		W	iS _R ₁ _N	15 32 20	
		W	eM _N	15 40 06	
		W	F	16 00 +	
71	June 23	W-A	e _E	15h44m15s	Reported felt in Tiptonville, Tennessee
		W-A	i _E	15 44 17	
		W-A	F	15 44 34	
72	June 24	W-A	e _E	3h36m33s	
		W-A	e _E	3 39 43	
			F	4 00 +	
73	June 24	W-A	ePR ₁ _E	13 18 51	$\Delta PR_1-H = 31.2$ Epicenter: 8°1 N, 84°2 W. H = 13h11m36s Normal Lost in following earthquake
		W-A	e _E	13 23 29	
		W-A	i _E	13 25 53	
		W-A	eL _E	13 26 58	
		W-A	e _E	13 28 03	
			F		
74	June 24	W-A	eP _E	13h19m47s	Epicenter same as No. 73 H = 13h13m29s
		W-A	eS _E	13 24 55	
			F	14 00 +	
75	June 24	W-A	iP _E	20 08 01	$\Delta S-P = 42.4$ Epicenter Region of 36°0 N, 36°0 W H = 20h00m06s
		W-A	ePR ₁ _E	20 09 41	
		W-A	iP _C _P _E	20 09 51	
		W-A	eS _N _E	20 14 30	
		W-A	eSR ₁ _E	20 17 39	
		W-A	eL _E	20 20 44	
		W-A	e _E	20 20 54	
		W-A	F	20 45 +	
76	June 29	W-A	e _E	10h08m25s	Weak
		W-A	i _E	10 09 23	
		W-A	i _E	10 09 32	
			F	10 10 +	

Minor Seismic Activity: June 17, 20h43m to 20h45m.



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

Bulletin for July, 1937
One Wiechert 80 Kg., two Wood-Anderson long-period seismographs, Wiechert clock

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
77	July 2	W-A	e _E	0 ^h 15 ^m 49 ^s	Local Disturbance
78	July 2	W-A W-A W-A W-A W-A W-A	e _E ePS _E e(PPS) _E i _E eL _E F	2 ^h 53 ^m 47 ^s 3 05 18 3 05 50 3 10 17 3 10.7 4 30 ±	Δ PS-H=107°8, H = 2 ^h 37 ^m 16 ^s Region of the New Hebrides. Epicenter by Christ Church, Rivervie Honolulu and Victoria 14°5 S, 168°1 E. Depth nearly normal.
79	July 4	W-A W-A W-A W-A W-A W-A W-A W-A W-A	ePR _{1E} e _E e(SKKS) _E ePS _E eSR _{1E} eSR _{2E} e _E eL _E eME F	6 ^h 14 ^m 25 ^s 6 14 33 6 21 15 6 23 45 6 29 45 6 34 13 6 44 57 6 46 17 6 54 37 Lost in next earthquake	Δ PS-H = 110.1 Epicenter: Region of 11°0 S, 163°0 E. H = 5 ^h 55 ^m 20 ^s
80	July 4	W-A W-A	e _E F	7 ^h 04 ^m 51 ^s 9 00 ±	Aftershock of No. 79
81	July 5	W-A W-A W-A W-A	e _E e _E i _E i _E F	1 ^h 54 ^m 11 ^s 1 56 57 2 01 42 2 03 08 2 15 ±	
82	July 8	W-A W-A W-A W-A W-A W-A	iP _N ipP _N i _N e _N eSE F	12 ^h 58 ^m 11 ^s 12 58 18 12 58 37 12 00 02 13 03 51 13 15 ±	Δ S-P = 35°8 h = 50 Km ±
83	July 11	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	eP _N iP _{NE} i iPR _{1N} iPR _{2NE} eS _{NE} eSR _{1E} eL _{NE} eM _{NE} F	17 ^h 24 ^m 42 ^s 17 24 43 17 24 59 17 25 11 17 25 24 17 28 58 17 30 09 17 31 50 17 34 30 18 00 ±	Δ P-H = 23.6 Epicenter: 20°7 N, 108°3 W. H = 17 ^h 19 ^m 31 ^s Depth nearly normal.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
84	July 14	W-A W-A W-A W-A W-A	iP _N ip _P _{NE} iPR ₁ _N eS _E F	4 ^h 21 ^m 08 ^s 4 21 11 4 21 31 4 25 23 4 45 +	$\Delta S-P = 23.5$ Very similar to No. 83.
85	July 18	W-A W-A W-A W-A	iP _N ip _P _N iS _N isS _N	1 ^h 10 ^m 22 ^s 1 10 37 1 17 48 1 18 06	$\Delta S-P = 53.9$ h = 75 ± Km.
86	July 19	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	eP _N iP _{NE} ip _P _{NE} isP _E iPR ₁ _{NE} iN iPR ₂ _N ip _P ₂ _N eS _{NE} esS _E isSR ₁ _{NE} F	19 ^h 43 ^m 00 ^s 19 43 03 19 43 41 19 44 08 19 44 31 19 44 50 19 45 21 19 45 46 19 48 58 19 50 16 19 52 44 20 30 +	$\Delta S-P = 40.0$ Epicenter: 0° 8 N, 76° 5 W. H = 19 ^h 35 ^m 47 ^s Depth by the Brunner Depth Chart about 200 Km. This inter- pretation replaces Preliminary Bulletin # 16 of the J.S.A. for 1937.
87	July 22	W-A W-A W-A W-A W-A W-A W-A W-A W-A	eP iP iPR ₁ i iPR ₂ iPcP i iS iSR ₁ F	17 ^h 17 ^m 18 ^s 17 17 21 17 18 40 17 18 59 17 19 10 17 19 19 17 23 29 17 23 37 17 26 13 19 30 +	Felt in Central Alaska A special study of this earthquake is being made at the University of California, Berkeley, California.
88	July 23	W-A W-A W-A W-A	e(P) _N e _{NE} i _{NE} F	1 ^h 00 ^m 24 ^s 1 12 29 1 14 57 1 45 +	
89	July 23	W-A W-A W-A	e _N i _{NE} F	23 ^h 14 ^m 08 ^s 23 16 27 23 30 +	
90	July 24	W-A W-A W-A W-A W-A	iP _N e(S) _{NE} i _{NE} i _E F	9 ^h 09 ^m 33 ^s 9 15 47 9 23 32 9 24 06 10 00 +	

No.	Date	Inst.	Phase	G. I. C. T.	Remarks
91	July 24	W-A	eP _{NE}	16 ^h 15 ^m 13 ^s	
		W-A	i _{NE}	16 15 19	
		W-A	c(S) _E	16 19 18	
		W-A	cL _E	16 21 32	
		W-A	F _E	16 30 ±	
92	July 25	W-A	e _E	11 ^h 20 ^m 39 ^s	
		W-A	c _E	11 21 48	
		W-A	i _E	11 22 23	
		W-A	i _E	11 24 11	
		W-A	F	11 30 ±	
93	July 25	W-A	eP _E	13 ^h 20 ^m 54 ^s	$\Delta S-P = 49.8$ Slightly deep.
		W-A	cpP _E	13 20 58	
		W-A	iS _E	13 28 09	
		W-A	isS _E	13 28 17	
		W-A	c(SR ₁) _E	13 31 13	
		W-A	cL _E	13 35 21	
		W-A	cM _E	13 38 29	
		F	14 00 ±		
94	July 26	W	iP	3 ^h 51 ^m 47 ^s	$\Delta P-H = 20.7$ Epicenter: 18°6' N, 95°8' W. H = 3 ^h 47 ^m 11 ^s Depth by the Brunner Depth Chart 75 kms. Felt along the Gulf Coast of Mexico.
		W	ipP	3 51 58	
		W	ipPR ₂	3 52 28	
		W	iS	3 55 27	
95	July 26	W-A	eP _N	20 ^h 09 ^m 28 ^s	$\Delta P-H = 91.0$ $H = 19^h 56^m 34^s$ Epicenter by Strasbourg. Region of 37°0' N, 141°0' E h = 100 Km.
		W-A	i _N	20 09 31	
		W-A	i _N	20 09 42	
		W-A	i _N	20 09 58	
		W-A	cPR ₁ _E	20 13 07	
		W-A	i _E	20 13 22	
		W-A	iSKS _{NE}	20 19 58	
		W-A	iS _{NE}	20 20 19	
		W-A	F	20 30 ±	
96	July 31	W-A	i _E	20 ^h 59 ^m 22 ^s	
		W-A	i _E	21 04 59	
		W-A	cL _E	21 27 02	
		W-A	F	22 00 ±	

Minor Seismic Activity

 July 14, 23^h03^m to 23^h40^m; July 30, 18^h08^m to 18^h23^m

SAINT LOUIS

9/1/30 8 159 min

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 August, 1937

19.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
97	Aug. 1	W-A	e _E	10 ^h 18 ^m 29 ^s	
		W-A	i _E	10 18 44	
		W-A	i _E	10 19 15	
		W-A	i _E	10 19 25	
		W-A	e _E	10 21 04	
		W-A	F	10 24 ±	
98	Aug. 1	W-A	e _E	11 ^h 05 ^m 40 ^s	Felt in the Province of Kiang-si, China
		W-A	i _E	11 05 41	
		W-A	eSKS _E	11 06 07	
		W-A	eL _E	11 33.0	
		W-A	F	12 00 ±	
99	Aug. 2	W-A	iP _E	3 ^h 34 ^m 35 ^s	
		W-A	epP _E	3 34 40	
		W-A	iS _E	3 40 40	
		W-A	e _E	3 43 20	
		W-A	F	3 45 ±	
100	Aug. 3	W-A	eP _E	21 ^h 59 ^m 56 ^s	
		W-A	i _E	22 00 04	
		W-A	i _E	22 01 00	
		W-A	i _E	22 01 08	
		W-A	iS _E	22 04 06	
		W-A	i _E	22 04 31	
		W-A	F	22 11 ±	
101	Aug. 5	W-A	eP* _E	21 ^h 31 ^m 48 ^s	ΔS*-P* = 11.3 miles Reported felt in south Saint Louis.
		W-A	iS* _E	21 31 50.5	
		W-A	i _E	21 32 02	
		W-A	F	21 32 33	
102	Aug. 5	W-A	iP* _E	23 ^h 12 ^m 46.5 ^s	ΔS*-P* = 28 miles Felt in Illinois near Granite City.
		W-A	iS* _E	23 12 52	
		W-A	F	23 14 ±	
103	Aug 6	W-A	e _E	22 ^h 03 ^m 35 ^s	Possibly blast.
		W-A	e _E	22 03 37	
		W-A	F	22 03 50	

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
104	Aug. 11	W-A	eP' _E	1 ^h 14 ^m 12 ^s	$\Delta = 140^{\circ}0$ ca
		W-A	i _E	1 14 15	
		W-A	i _E	1 14 24	
		W-A	i _E	1 14 31	
		W-A	iSKS _E	1 20 17	
		W-A	i _E	1 23 15	
		W-A	i _E	1 31 47	
105	Aug. 18	W-A	eP* _E	21 ^h 22 ^m 44 ^s	Possibly blast.
		W-A	i _E	21 22 46	
		W-A	iS* _E	21 22 48	
		W-A	F	21 23 56	
106	Aug. 20	W-A	ePR _{1E}	12 ^h 19 ^m 38 ^s	Epicenter by Manila. 14.2 N, 122.1 E. H = 11 ^h 59 ^m 32 ^s $\Delta_{PR_1} - H = 119^{\circ}3$ Felt throughout southern Luzon and neighboring islands.
		W-A	e _E	12 20 36	
		W-A	ePR _{2E}	12 22 16	
		W-A	e(SKS) _E	12 24 53	
		W-A	e(SKKS) _E	12 26 35	
		W-A	e _E	12 27 20	
		W-A	e(SP) _E	12 29 18	
		W-A	e(SR ₁) _E	12 34 52	
		W-A	e _E	12 38 28	
		W-A	ePR' _{3E}	12 40 18	
		W-A	eSR _{3E}	12 44 10	
		W-A	e(G) _E	12 49 36	
		W-A	eM _E	12 07 08	
107	Aug. 22	W-A	e _E	11 ^h 56 ^m 29 ^s	Indistinct.
		W-A	i _E	12 07 00	
		W-A	F	12 09 ±	
108	Aug. 24	W-A	iP _E	18 41 20	Lost in microseisms
		W-A	ipP _E	18 41 30	
		W-A	eS _E	18 52 09	
		W-A	eL _E	19 10 ±	
		W-A	F		
109	Aug. 24	W-A	iP _E	20 20 04	
		W-A	iPR _{1E}	20 21 14	
		W-A	iPR _{2E}	20 21 44	
		W-A	i _E	20 24 27	
		W-A	eL _E	20 28 14	
110	Aug. 31	W-A	i _E	21 32 24	Blast?
		W-A	i _E	21 32 26	
		W-A	i _E	21 32 28	
		W-A	i _E	21 32 32	
		W-A	F	21 33 ±	

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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 September, 1937

21.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
111	Sept 1	W-A	ePR ₁ E	8 ^h 57 ^m 37 ^s	Δ PR ₁ -H = 107 ^o 6 U.S.C. and G.S. gives 31 ^o 5 S, 179 ^o 0 W. H = 8 ^h 38 ^m 56 ^s
		W-A	eE	8 57 57	
		W-A	iE	9 04 38	
		W-A	eE	9 05 00	
		W-A	eLE	9 31 55	
			F	10 00 ±	
112	Sept 1	W-A	ePE	17 ^h 29 ^m 27 ^s	
		W-A	eE	17 29 46	
		W-A	iSE	17 33 12	
		W-A	iE	17 34 10	
		W-A	eE	17 34 30	
			F	17 40 ±	
113	Sept 3	W-A	ePE	18 ^h 58 ^m 06 ^s	Δ P-H = 58 ^o 9 H = 18 ^h 48 ^m 29 ^s Epicenter: 52 ^o 5 N. 177 ^o 5 W Depth by Brunner Depth Chart 160-180 Km.
		W-A	iE	18 58 08	
		W-A	iE	18 58 16	
		W-A	iE	18 58 21	
		W-A	iE	18 58 28	
		W-A	iPcPE	18 59 08	
		W-A	iE	19 00 37	
		W-A	eE	19 05 57	
		W-A	iE	19 06 09	
		W-A	iE	19 06 25	
		W-A	iE	19 07 00	
		W-A	iScSE	19 08 02	
		W-A	iE	19 08 38	
		W-A	eLE	19 09 58	
		F	21 00 ±		
114	Sept 8	W-A	(e)E	0 ^h 58 ^m 37 ^s	Δ about 96 ^o 0 South Atlantic Ocean off South African Coast.
		W-A	iE	0 59 07	
		W-A	ePR ₂ E	0 59 48	
		W-A	iSKKSE	1 04 38	
		W-A	eSE	1 05 30	
		W-A	ePSE	1 06 08	
		W-A	eLE	1 07 42	
		F	Lost in microseisms		
115	Sept 15	W-A	eE	12 45 21	Δ S-H = 109.1 Epicenter near 8 ^o 3 S, 162 ^o 0 E. H = 12 ^h 27 ^m 37 ^s Depth probably normal.
		W-A	ePR ₁ E	12 46 35	
		W-A	iE	12 46 50	
		W-A	iE	12 47 13	
		W-A	eE	12 47 39	
		W-A	eSKKSE	12 53 34	



No	Date	Inst.	Phase	G. M. C. T.	Remarks
115	Sept 15 (con't)	W-A W-A W-A W-A	eSE e(PPS) _E eLE eM _E F	12 ^h 54 ^m 17 ^s 12 56 21 13 20.0 13 21.5 14 00 ±	
116	Sept 15	W-A W-A W-A W-A W-A W-A W-A W-A	eP _E ipP _E isP _E ipPR _{1E} i _E eSE iSR _{2E} eL _E F	23 ^h 54 ^m 07 ^s 23 54 28 23 54 43 23 55 00 23 55 22 23 58 27 23 59 15 24 01 51 24 30 ±	ΔP-H = 24 ^o 4 Epicenter: 91 ^o 6 W. 1492 N. Depth by Brunner Depth Chart 100 Km. H = 23 ^h 48 ^m 55 ^s
117	Sept 16	W-A W-A W-A	eE iE F	18 ^h 50 ^m 32 ^s 18 50 32.5 18 50 43	Blast?
118	Sept 20	W-A W-A W-A W-A W-A W-A	iPN iN eSN eSR _{1N} eLN iN iLN	7 ^h 09 ^m 02 ^s 7 09 08 7 13 27 7 14 17 7 16 35 7 17 13 7 17 38	ΔS-P = 24 ^o 7 Epicenter: 18 ^o 9 N, 107 ^o 3 W. H = 7 ^h 03 ^m 40 ^s Normal.
119	Sept 22	W-A W-A	eP _E iS _E	18 ^h 29 ^m 59 ^s .5 18 30 01.5	Blast?
120	Sept 23	W-A W-A W-A W-A W-A W-A W-A W-A	ePR _{1E} ePR _{2E} eSKS _E eSKKS _E iE ePS _E e(PPS) _E eL _E F	13 ^h 25 ^m 33 ^s 13 27 54 13 31 28 13 32 44 13 32 52 13 35 15 13 36 36 13 59.0 14 30 ±	ΔPR ₁ -H = 114 ^o 7 Epicenter: 6 ^o 5 S, 153 ^o 8 E. H = 13 ^h 03 ^m 00 ^s Normal.
121	Sept 27	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	iP' _E iE iE iE iE iSKP _E iSKKS _E eE eE ePPS _E	9 ^h 14 ^m 50 ^s 9 15 00 9 15 04 9 15 17 9 16 06 9 18 18 9 24 53 9 25 18 9 26 29 9 30 41	ΔP-H = 145 ^o 1 H = 8 ^h 55 ^m 19 ^s h = about 60 Km. by the Brunner Depth Chart. Epicenter: 8 ^o 5 S, 110 ^o 4 E. Felt on Java, Bali and Lombok.

No.	Date	Inst.	Phase	G.L.C.T.	Remarks
123	Sept 28	W-A	eP _E	6h26m13s	ΔP-H = 24.8 Epicenter: 91.97 W. 14.90 N. H = 6h20m50s Felt in Guatemala.
		W-A	iPR _{1E}	6 26 33	
		W-A	iPR _{2E}	6 26 59	
		W-A	eS _E	6 30 39	
		W-A	eX _E	6 30 48	
		W-A	eSR _{1E}	6 31 46	
		W-A	eL _E	6 33 04	
		W-A	F	7 00 +	
123	Sept 28	W-A	iP _E	13h39m35s	
		W-A	e _E	13 39 45	
		W-A	e _E	13 40 13	
		W-A	iS _E	13 45 21	
		W-A	F	13 46 +	
124	Sept 28	W-A	eP _N	18h24m37s	
		W-A	iN	18 25 02	
		W-A	iPR _{1N}	18 25 14	
		W-A	iPR _{2N}	18 25 24	
		W-A	eS _N	18 29 00	
		W-A	eX _N	18 29 12	
		W-A	eL _N	18 34.3	
125	Sept 29	W-A	eE	11h36m37s	
		W-A	e _E	11 36 52	
		W-A	e _E	11 37 02	
		W-A	eL _E	11 46.3	
		W-A	F	12 00 +	

Minor Seismic Activity

Sept. 30, 8h8m to 8h15m

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J. B. Macelwane, S.J.
Director

R. R. Heinrich
Graduate Fellow

SAINT LOUIS

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 October, 1937

24.

No.	Date	Inst.	Phase	G. M. C. T.	Remarks
126	Oct 5	W-A	cP _E	6h26m16s	$\Delta P-H = 22^{\circ}4$ Epicenter: 22 ^o 5 N, 108 ^o 5 W. H = 6h21m17s Normal.
		W-A	iNE	6 26 30	
		W-A	cPR2E	6 26 52	
		W-A	iE	6 27 46	
		W-A	iE	6 28 08	
		W-A	iSNE	6 30 22	
		W-A	eSR1E	6 31 19	
		W-A	eLNE	6 32 14	
		W-A	iNE F	6 33 14 7 00 ±	
127	Oct 5	W-A	cPnNE	22h58m51s	$\Delta S_n-P_n = 144$ miles Felt at New Madrid, Mo.
		W-A	iPnN	22 58 52	
		W-A	iS _n NE	22 59 17.5	
		W-A	F	22 59 33	
128	Oct 6	W-A	cPN	9h52m06s	$\Delta P-H = 22^{\circ}4$ Epicenter: 17 ^o 7 N, 99 ^o 0 W. H = 9h47m16s Depth by Brunner Depth Chart about 100 Km.
		W-A	iPN	9 52 07	
		W-A	ipPNE	9 52 21	
		W-A	iNE	9 52 26	
		W-A	iPR1N	9 52 36	
		W-A	isPN	9 52 45	
		W-A	iNE	9 54 12	
		W-A	eSNE	9 56 03	
		W-A	iS _n NE	9 56 06	
		W-A	isSNE	9 56 30	
		W-A	iE	9 57 01	
		W-A	isSR1E		
		W-A	cLE F		
129	Oct 12	W-A	cP _E	21h01m29s	
		W-A	eE	21 02 12	
		W-A	eE	21 07 00	
		W-A	iE	21 11 02	
		W-A	eE F	21 12 13 21 15 ±	
130	Oct 17	W-A	iN	7h11m13s	
		W-A	eE	7 11 13	
		W-A	eLE	7 25 13	
		W-A	eLN	7 28 33	

Saint Louis Bulletin for October, 1937

No.	Date	Inst	Phase	G. M. C. T.	Remarks
131	Oct 19	W-A	ePN	17 ^h 46 ^m 14 ^s	Blast
		W-A	iPN	17 46 15	
		W-A	eSNE	17 46 18	
		W-A	iSNE	17 46 19	
132	Oct 21	W-A	ePE	7 ^h 16 ^m 45 ^s	Near earthquake or blast
		W-A	iPE	7 16 48	
		W-A	iSNE	7 16 55.5	
		W-A	iSE	7 17 08.5	
133	Oct 24	W-A	ePE	11 ^h 43 ^m 58 ^s	$\Delta_{P-H} = 42^{\circ}0$ Epicenter 59 ^c .7 N, 148 ^c .8 W. H = 11 ^h 36 ^m 07 ^s Normal. Felt at Seward, Alaska.
		W-A	eE	11 44 53	
		W-A	eE	11 45 49	
		W-A	iPR ₂ E	11 45 54	
		W-A	eSE	11 50 27	
		W-A	eSR ₁ E	11 53 36	
		W-A	eLE	11 56 47	
		W-A	iE	11 58 54	
		W-A	F	13 00 +	

Minor Seismic Activity:

Oct, 1, 20h05m to 20h30m; Oct 25, 23h40m to 23h43m.

* * * * *

P L E A S E Insert on page 24 of Saint Louis Bulletin, Earth-
quake No. 128 in the h m s column after 9 57 01

9 57 23
 9 57.8
 10 20 +

J. B. Macelwane, S.J.
 Director

R. R. Heinrich
 Graduate Fellow

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26.

No.	Date	Inst.	Phase	G. L. C. T.	Remarks
134	7	W-A W-A W-A W-A	iP _N iP _E ipP _N e _E F	9h17m38s 9 17 39 9 17 47 9 26 25 9 27 ±	
135	10	W-A W-A W-A W-A	iP _N iS _N iL _N iN F	20 ^h 09 ^m 07 ^s .4 20 09 11.4 20 09 15.0 20 09 16.2 20 09 40	ΔS-P = 8 miles Blast?
136	14	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	eP _N eNE eE iE eSKS _E iE eS _{NE} iE iE iE eE	11 ^h 11 ^m 50 ^s 11 11 52 11 15 05 11 15 42 11 22 02 11 22 10 11 23 12 11 23 51 11 24 58 11 26 26 11 31 10	Epicenter by Rev. J. J. Lynch, S. J. of Fordham 35°6 N, 70°8 E. H = 10 ^h 58 ^m 14 ^s h = 250 Km. ΔP-H = 103. ^C 8
137	17	W-A W-A W-A W-A	iP* iPg iS _n iSg	17 ^h 05 ^m 05 ^s 17 05 07.1 17 05 17.8 17 05 19.6	ΔP*-H = 64 miles H = 17 ^h 04 ^m 47 ^s .7 Epicenter: 89°05' W. 38°34' N Felt over an area of 8000 sq. miles in south central Illinois
138	25	W-A W-A	eN eL _N F	5h29m33s 5 39 45 6 00 ±	
139	30	W-A W-A	eL _N F	1h53m06s 2 30 ±	
140	30	W-A	eL _N F	13h47m46s 14 30 ±	

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26.

No.	Date	Inst.	Phase	G. M. C. T.	Remarks
134	7	W-A W-A W-A W-A	iP _N iP _E ip _N e _E F	9h17m38s 9 17 39 9 17 47 9 26 25 9 27 ±	
135	10	W-A W-A W-A W-A	iP _N iS _N iL _N iN F	20 ^h 09 ^m 07 ^s .4 20 09 11.4 20 09 15.0 20 09 16.2 20 09 40	ΔS-P = 8 miles Blast?
136	14	W-A W-A W-A W-A W-A W-A W-A W-A W-A W-A	eP _N eNE eE iE eSKS _E iE eS _{NE} iE iE iE eE	11 ^h 11 ^m 50 ^s 11 11 52 11 15 05 11 15 42 11 22 02 11 22 10 11 23 12 11 23 51 11 24 58 11 26 26 11 31 10	Epicenter by Rev. J. J. Lynch, S.J. of Fordham 35°6 N, 70°8 E. H = 10 ^h 59 ^m 14 ^s h = 250 Km. ΔP-H = 103.8 ^c
137	17	W-A W-A W-A W-A	iP* iP _g iS _n iS _g	17 ^h 05 ^m 05 ^s 17 05 07.1 17 05 17.8 17 05 19.6	ΔP*-H = 64 miles H = 17 ^h 04 ^m 47 ^s .7 Epicenter: 89°05' W. 38°34' N Felt over an area of 8000 sq. miles in south central Illinois
138	25	W-A W-A	eN eL _N F	5h29m33s 5 39 45 6 00 ±	
139	30	W-A W-A	eL _N F	1h53m06s 2 30 ±	
140	30	W-A	eL _N F	13h47m46s 14 30 ±	

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Bulletin for December, 1937

27.

No.	Date	Inst.	Phase	G. M. C. T.	Remarks
141	5	W-A W-A W-A W-A W-A W-A	eP _N iNE eNE eS _N eSE eLN F	5 ^h 47 ^m 19 ^s 5 47 35 5 48 16 5 51 34 5 51 38 5 55 48 12 00 ±	$\Delta S-P = 2395$ H = 5 ^h 42 ^m 03 ^s
142	6	W-A W-A	eP _N e(S) _{NE} F	21 ^h 13 ^m 00 ^s 21 17 34 Indistinct	$\Delta S-P = 2598$
143	6	W-A W-A W-A W-A W-A W-A W-A W-A	iP _N cPE c(OP) _N cPR _{1H} c(OPPR ₁) _H cS _N cE eLNE F	21 ^h 48 ^m 44 ^s 21 48 44 21 48 49 21 49 13 21 49 21 21 53 29 21 54 15 21 57 09 21 30 ±	$\Delta S-P = 2792$
144	8	W-A W-A W-A W-A W-A W-A	iP _N cPE iNE iNE cS _N eLN F	2 ^h 30 ^m 50 ^s 2 30 51 2 30 58 2 31 29 2 35 19 2 36 21 3 15 ±	$\Delta S-P = 2592$
145	8	W-A W-A W-A	cN eLN F	9 ^h 07 ^m 21 ^s 9 12.5 10 30 ±	Distant. Weak.
146	18	W-A W-A W-A	eLN cM _N F	14 ^h 14 ^m 29 ^s 14 18.5 14 40 ±	
147	18	W-A W-A W-A W-A	iP _N cN cS _N eLN F	20 55 30 20 56 29 21 00 41 21 03 21 21 30 ±	

No.	Date	Inst	Phase	G...C.T.	Remarks
148	22	W-A	eP _N	3 ^h 42 ^m 40 ^s	$\Delta S-P = 25^{\circ}0$ Epicenter: 17 ^o 2 N, 105 ^o 7 W. H = 3 ^h 37 ^m 15 ^s Depth normal.
		W-A	eP _E	3 42 41	
		W-A	iP _{NE}	3 42 44	
		W-A	iP _{R1NE}	3 43 15	
		W-A	iP _{R2NE}	3 43 29	
		W-A	i _E	3 43 50	
		W-A	eS _{NE}	3 47 07	
		W-A	iS _{NE}	3 47 17	
		W-A	eSR _{1E}	3 47 58	
		W-A	eL _M	3 49 31	
		W-A	iL _M	3 50 31	
			F	5 00 +	
149	22	W-A	iP _{NE}	5 ^h 48 ^m 33 ^s	Aftershock of No. 148
		W-A	eL _E	5 56 21	
150	22	W-A	iP _{NE}	7 ^h 40 ^m 30 ^s	$\Delta S-P = 25^{\circ}3$ Aftershock of No. 148.
		W-A	eP _{R1E}	7 41 05	
		W-A	eS _{NE}	7 45 00	
		W-A	eL _E	7 48 17	
				F	
151	23	W-A	eP _N	13 ^h 22 ^m 59 ^s	$\Delta P-H = 22^{\circ}7$ Epicenter: 16 ^o 6 N, 98 ^o 0 W. H = 13 ^h 17 ^m 56 ^s Normal
		W-A	eP _E	13 23 00	
		W-A	iP _{R1NE}	13 23 28	
		W-A	iP _{R2NE}	13 23 39	
		W-A	i _E	13 25 42	
		W-A	iS _{NE}	13 27 20	
		W-A	i _E	13 27 34	
		W-A	i _E	13 27 44	
		W-A	i _E	13 28 03	
		W-A	i _E	13 28 13	
		W-A	iL _{NE}	13 29.5	
		F	Lost in changing records		
152	23	W-A	eP _N	23 26 24	$\Delta S-P = 23^{\circ}1$ Epicenter: 16 ^o 6 N, 98 ^o 0 W. H = 23 ^h 21 ^m 18 ^s Aftershock of No. 151.
		W-A	iP _{NE}	23 26 25	
		W-A	iP _{R1NE}	23 26 48	
		W-A	i _N	23 28 00	
		W-A	eS _N	23 30 42	
		W-A	iS _E	23 30 44	
		W-A	i _N	23 31 56	
				F	
153	24	W-A	iP _{NE}	4 29 41	
		W-A	i _N	4 29 48	
		W-A	e(S) _{NE}	4 37 00	
		W-A	eL _M	4 41 20	
				F	

No.	Date	Inst.	Phase	G.L.C.T.	Remarks
154	26	W-A	eP _N	23 ^h 48 ^m 53 ^s	$\Delta S-P = 2594$
		W-A	eT _E	23 50 25	
		W-A	eS _N	23 53 24	
		W-A	eS _E	23 53 26	
		W-A	iS _N	23 53 27	
		W-A	eL _E	23 55.5	
			F	00 30 \pm (Dec. 27)	
155	30	W-A	eP _E	11 ^h 01 ^m 38 ^s	
		W-A	eL _E	11 09 06	
		W-A	F	11 20 \pm	
156	30	W-A	eP _{NE}	11 ^h 43 ^m 08 ^s	$\Delta S-P = 2297$
		W-A	iP _E	11 46 09	
		W-A	iP _N	11 46 11	
		W-A	iN	11 46 18	
		W-A	iN	11 46 38	
		W-A	eS _{NE}	11 50 16	
		W-A	iE	11 50 36	
		W-A	iE	11 51 20	
		W-A	eL _E	11 54.0	
		W-A	F	12 20 \pm	
157	31	W-A	iP _N	17 ^h 46 ^m 32 ^s	$\Delta S-P = 2396$ Epicenter: 1392 N, 9897 W. H = 17 ^h 41 ^m 21 ^s Normal?
		W-A	iP _E	17 46 34	
		W-A	iPR _{1NE}	17 47 00	
		W-A	ePR _{2N}	17 47 13	
		W-A	iN	17 48 03	
		W-A	iN	17 48 27	
		W-A	iS _N	17 50 48	
		W-A	eS _E	17 50 48	
		W-A	iSR _{2N}	17 51 31	
		W-A	F	18 00 \pm	

Minor Seismic Activity:

Dec. 11, 19h7m to 19h30m; Dec. 12, 8h00m to 9h30m; Dec. 13, 19h00m to 21h00m; Dec. 26, 6h8m to 6h15m; Dec. 28, 6h00m to 7h30m.

* * * * *

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