

LITTLE ROCK



From the ISC collection scanned by SISMOS

LITTLE ROCK COLLEGE SEISMOLOGICAL OBSERVATORY, PULASKI HEIGHTS, LITTLE ROCK, ARK., U. S. A.

(In cooperation with St. Louis University, St. Louis, Mo.—Records kept in St. Louis)

Two Wood-Anderson short-period seismographs, Howard clock, time checked by radio signals.

CORRIGENDA

In the Bulletin for 1934

Instead of	Read
Jan. 29 19h	Jan. 30 19h
Jan. 29 20h	Jan. 30 20h
Jan. 30 10h	Jan. 31 10h
Jan. 31 09h	Feb. 1 11h
Feb. 26 00h	Feb. 24 00h
Feb. 26 05h	Feb. 24 05h
Feb. 26 06h	Feb. 24 06h

The Central Station of the Jesuit Seismological Association acknowledges with thanks the receipt of the following reports from January 1, 1933, to June 15, 1933:

Apia.....October-December, 1932 (14 copies);
 January-March, 1933 (14 copies).
 Batavia.....October 23-November 13, November 17-
 December 2, December 4-December 15,
 1932; January 1-January 21, January
 21-February 2, February 2-February
 22, February 22-March 2, March 17-
 March 29, 1933.
 Seismological Bulletin....October-December, 1932 (11 copies).
 Special Bulletin.....May 14, 1932 (11 copies).
 Capetown, South Africa.....October-December, 1932; January,
 February, March, April, 1933;
 Corrections and Additions, September-
 December, 1932.
 Cartuja.....June-July, 1932 (3 copies);
 August-September, 1932 (2 copies).
 Chiufeng.....December, 1932; January, February,
 March, 1933.
 "Göttingen"
 Helwan.....July-December, 1932, (2 copies).
 November-December, 1932; January,
 February, March, 1933.
 Ivigtut.....August-December, 1929; January-
 December, 1930 (2 copies).
 Karlsruhe.....July-December, 1932.
 Kew.....December, 1932; January, February,
 March, April, 1933.
 La Paz.....January-August, 1932; December 9-31,
 1932; January 1-4, 7, 9, 12, 15, 18,
 1933, April 4-May 8, 1933.
 Manila
 Seismological Bulletin....November, December, 1932;
 January, February, March, 1933.
 Special Bulletin.....December, 1932; January, February,
 March, April, 1933.
 Matuyama.....January-December, 1931 (2 copies).
 Nagasaki.....October, 1931- September, 1932.
 Nagoya.....July-December, 1932;
 January-March, 1933.
 Osaka.
 Seismological Bulletin....April-June, 1932 (3 copies); Novem-
 ber-December, 1932; January, 1933.
 Paris.....December, 1932 (13 copies); January,
 (13 copies), February, (13 copies),
 March (2 copies), April, (13 copies),
 1933.
 San Fernando.....November-December, 1932 (10 copies);
 January-February, 1933 (11 copies),
 March-April, 1933 (12 copies).
 Scoresby-Sund.....January-December, 1929;
 January-June, 1930.

The General Station of the United Seismological Association is
knowledge will be the receipt of the following reports from
January 1, 1953, to June 15, 1953:

Algeria..... October-December, 1952 (14 copies);
January-March, 1953 (14 copies).
Argentina..... October 23-November 13, November 13,
December 2, December 4-December 15,
1952; January 1-January 21, January
22-January 2, February 2-February
22, February 23-March 2, March 17-
March 29, 1953.
Australia..... October-December, 1952 (11 copies);
Special Bulletin..... January 14, 1952 (11 copies).
Canada..... October-December, 1952; January,
February, March, April, 1953.
Canton..... Collocations and additions, September-
December, 1952.
Cuba..... June-July, 1952 (3 copies);
..... August-September, 1952 (2 copies).
Czechoslovakia..... December, 1952; January, February,
March, 1953.
Denmark..... January-December, 1952 (2 copies).
France..... January-December, 1952; January,
February, March, 1953.
Germany..... January-December, 1952 (10 copies).
Greece..... January-December, 1952 (11 copies).
India..... January-December, 1952 (10 copies).
Indonesia..... January-December, 1952 (10 copies).
Italy..... January-December, 1952 (10 copies).
Japan..... January-December, 1952 (10 copies).
Korea..... January-December, 1952 (10 copies).
Lithuania..... January-December, 1952 (10 copies).
Mexico..... January-December, 1952 (10 copies).
Morocco..... January-December, 1952 (10 copies).
Netherlands..... January-December, 1952 (10 copies).
New Zealand..... January-December, 1952 (10 copies).
Norway..... January-December, 1952 (10 copies).
Poland..... January-December, 1952 (10 copies).
Portugal..... January-December, 1952 (10 copies).
Romania..... January-December, 1952 (10 copies).
Spain..... January-December, 1952 (10 copies).
Sweden..... January-December, 1952 (10 copies).
Switzerland..... January-December, 1952 (10 copies).
Tanzania..... January-December, 1952 (10 copies).
Turkey..... January-December, 1952 (10 copies).
U.S.S.R..... January-December, 1952 (10 copies).
Uganda..... January-December, 1952 (10 copies).
Ukraine..... January-December, 1952 (10 copies).
Yugoslavia..... January-December, 1952 (10 copies).

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1.

LITTLE ROCK COLLEGE SEISMOLOGICAL OBSERVATORY, PULASKI HEIGHTS, LITTLE ROCK, ARK., U. S. A.

(In cooperation with St. Louis University, St. Louis, Mo.—Records kept in St. Louis)

Two Wood-Anderson short-period seismographs, Howard clock, time checked by radio signals.

Bulletin for 1934

No.	Date	Inst.	C/D	Phase	G. M. C. T.	H--Remarks
1	Jan. 3	W-A		eP _N	09h53m40s.	H = 09h42m38s. Δ = 73°8. Epicenter 53°6 N, 157°3 E. Depth of focus = ap- proximately 300 km. by Brunner Depth Chart.
				iS _N	10 02 47	
				ipS _N	10 03 23	
				isS _N	10 04 47	
	Jan. 5	W-A		Seismic activity about 23h24m50s.		
	Jan. 14	W-A		Earthquake recorded but time marks failed.		
2	Jan. 15	W-A		eP _N	08h58m41s.	H = 08h43m16s. Δ = 121°0 Time only approxi- mate. Epicenter: 25°6 N, 85°7 E. Indian Earthquake.
				eP' _N	09 02 09	
				iPR _{1N}	09 03 33	
				eScP _{cP}	09 05 01	
				ePR _{2N}	09 06 11	
				eSKS _N	09 09 03	
				ePS _N	09 13 30	
				iPPS _N	09 14 42	
F	11 30±					
3	Jan. 19	W-A		eP _N	10h00m11s.	
				ePR _{1N}	10 00 34	
				eL _N	10 05 32	
				eM	10 07 09	
				F	10 30±	
	Jan. 21	W-A		Seismic activity about 23h52m20s.		
	Jan. 22	W-A		Seismic activity about 10h32m04s, 13h47m22s, and also at 18h09m00s.		
	Jan. 25	W-A		Seismic activity about 19h04m33s.		
4	Jan. 28	W-A		iP _E	19h14m26s.	H = 19h10m03s. Δ = 19°1 Epicenter: 16°6 N, 99°1 W.
				iS _E	19 18 01	
				iSR _{1E}	19 18 14	
				iSR _{2E}	19 18 20	
	Jan. 29	W-A		Seismic activity about 19h28m50s.		

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2.

No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
5	Jan. 29	W-A		eP _E iPR _{1E} eS _E iSR _{1E} iL F	20h21m14s. 20 21 34 20 25 05 20 25 28 20 27 38 21 30 ⁺	H = 20h16m32s. Δ = 20°8 Epicenter: 37°8 N, 118°2 W Western Nevada.
	Jan. 30	W-A		Seismic activity about 10h15m19s.		
	Jan. 31	W-A		Seismic activity about 09h52m46s.		
	Feb. 3	W-A		Seismic activity about 15h30m.		
	Feb. 4	W-A		Seismic activity about 21h30m.		
	Feb. 9	W-A		Seismic activity about 08h30m33s.		
	Feb. 12	W-A		Seismic activity about 06h28m.		
6	Feb. 14	W-A		eP _N ePR _{1N}	04h18m32s. 04 19 53	H = 03h59m43s. Δ = 120°1 Epicenter: 18°4 N, 119°5 E.
7	Feb. 14	W-A		iP eS eSR _{1E} e _N	22h22m56s. 22 26 48 22 27 35 22 27 56	H = 22h18m13s. Δ = 20°9 Epicenter: 14°0 N, 94°7 W.
	Feb. 19	W-A		Seismic activity about 10h41m22s.		
8	Feb. 26	W-A		eP _{EN} eL	00h56m41s. 01 09 34	
	Feb. 26	W-A		Seismic activity about 05h38m16s.		
9	Feb. 26	W-A		e ePR ₁ iScP _{cS} eScP _{cPS} eL	06h40m34s. 06 41 53 06 48 16 06 49 06 07 10 42	H = 06h23m35s. Δ = 105.8 Epicenter: 15°3 N, 146°2 W.
	Feb. 28	W-A		Seismic activity about 15h30m.		
10	Mar. 1	W-A		eP epP eS esS	21h57m20s. 21 57 51 22 06 54 22 07 54	H = 21h45m34s. Δ = 77°2. Epicenter: 39°7 S, 72°5 N. Depth 140 km. by Brunner Depth Chart.

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3.

No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
	Mar. 5	W-A		Seismic activity about 01h21m08s.		
11	Mar. 5	W-A		eP _E ePR _{1E} eL _E	12h04m44s. 12 05 46 12 38 07	H = 11h46m04s. Δ = 116 ^o .2 Epicenter: 42 ^o 7 S, 173 ^o 7 E.
12	Mar. 7	W-A		eP _E ePR _{1E} ePR _{2E} iSR _{1E}	22h46m55s. 22 47 27 22 47 40 22 50 58	H = 22h41m35s. Δ = 24 ^o .5. Epicenter: 11 ^o 0 N, 86 ^o 0 W.
13	Mar. 12	W-A		eP iPR ₁ iPR ₂ iS iSR ₁ iL	15h09m41s. 15 09 53 15 10 02 15 13 03 15 13 25 15 14 08	H = 15h05m39s. Δ = 17 ^o .6 Epicenter: 41 ^o 7 N, 113 ^o 0 W.
	Mar. 12	W-A		Seismic activity at 17h38m06s.		
	Mar. 12			The "second quake" at the above epicenter consisted of at least three superimposed quakes--identification of the phases is doubtful. For this reason no solution of the epicenter was attempted.		
	Mar. 13	W-A		Aftershocks of Utah earthquake about 10h16m11s and 12h07m13s. Seismic activity about 13h37m44s.		
	Mar. 15	W-A		Seismic activity about 10h01m, 12h08m, 12h37m, 13h54m, 14h03m.		
14	Mar. 18	W-A		iP _{EN} iS _{EN}	04h44m47s. 04 54 26	H = 04h33m12s. Δ = 74 ^o 4 Epicenter: 50 ^o 0 N, 158 ^o 0 E.
15	Mar. 24	W-A		iPR _{1EN} eSKS _E e _E ePS _E ePPS _E iSR _{1E} eL _{EN}	12h23m25s. 12 30 34 12 32 56 12 33 45 12 34 26 12 39 16 12 55 36	H = 12h04m34s. Δ = 108 ^o 9 Epicenter: 9 ^o .3 S, 161 ^o .5 E.

 J. B. Macelwane, S.J.
 Director

 George A. O'Donnell, S.J.
 Assistant

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4.

LITTLE ROCK COLLEGE SEISMOLOGICAL OBSERVATORY, PULASKI HEIGHTS, LITTLE ROCK, ARK., U. S. A.

(In cooperation with St. Louis University, St. Louis, Mo.—Records kept in St. Louis)

Two Wood-Anderson short-period seismographs, Howard clock, time checked by radio signals.

Bulletin for 1934

No.	Date	Inst.	C/D	Phase	G. M. C. T.	H--Remarks
	April 2	W-A				Seismic activity about 23h23m. Possibly in Northern Alabama.
	April 4	W-A				Seismic activity about 12h45m13s.
	April 7	W-A				Seismic activity about 2h17m07s.
16	April 10	W-A W-A W-A W-A		eP _N epP _N eE eN	05-43-37 05-44-30 05-47-16 05-47-24	Probably a deep quake-- focus at depth 140-150 km. No time corrections.
	April 11	W-A				Seismic activity about 21h30m.
17	April 12	W-A W-A W-A W-A		eP _n E ep _g E eS _n E eS [*] _{EN}	01-40-54 01-41-02 01-41-29 01-41-35	H = 01h40m08s. Epicenter possibly at 34° N, 96°W. Δ = 2°9.
	April 12	W-A				Seismic activity about 23h27m36s.
18	April 14	W-A W-A W-A		eP eS eL	21-30-36 21-33-50 21-35-03	H = 21h26m41s. Epicenter in Northern Utah. Δ = 16°8.
19	April 15	W-A W-A W-A W-A		eP ¹ _E ePR ₁ E eS _C P _C P _E eSKKS	22-34-29 22-36-06 22-37-28 22-42-55	H = 22h15m19s. Epicenter at 11°5 N, 121°8 E. Δ = 124°1.
	April 17	W-A				Seismic activity about 7h9m and 19h45m.
20	April 17	W-A W-A W-A		ePEN eS _{EN} eL	14-50-24 14-54-27 14-55-36	H = 14h45m27s. Δ = 22°2.
	April 18	W-A				Seismic activity about 12h29m.
	April 22	W-A				Seismic activity about 15h.
	April 24	W-A				Seismic activity about 22h36m.
	April 28	W-A				Seismic activity about 10h.

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LITTLE ROCK COLLEGE SEISMOLOGICAL OBSERVATORY, PULASKI HEIGHTS, LITTLE ROCK, ARK., U. S. A.

Bulletin for 1954

No.	Date	Instr.	O/D Page	G.M.T.	M-Remarks
	April 2	W-A			Seismic activity about 23h33m. Possibly in Northern Alabama.
	April 4	W-A			Seismic activity about 13h45m.
	April 7	W-A			Seismic activity about 21h07m.
16	April 10	W-A		05-43-37 05-44-30 05-47-18 05-47-34	Probably a deep quake - focus at depth 140-150 km. No time corrections.
	April 11	W-A			Seismic activity about 21h30m.
17	April 12	W-A		01-40-54 01-41-03 01-41-38 01-41-38	H = 0140.08s. Epicenter possibly at 34° N, 92° W. Δ = 3.9.
	April 12	W-A			Seismic activity about 23h27m.
18	April 14	W-A		21-33-38 21-33-50 21-33-03	H = 2133m. Epicenter in Northern Ark. Δ = 1.98.
19	April 15	W-A		22-34-39 22-38-06 22-37-38 22-42-35	H = 2234m. Epicenter at 11° N, 182° E. Δ = 124.1.
	April 17	W-A			Seismic activity about 7h3m and 13h45m.
20	April 17	W-A		14-50-34 14-54-37 14-55-38	H = 1454m. Δ = 2.92.
	April 18	W-A			Seismic activity about 13h30m.
	April 22	W-A			Seismic activity about 15h.
	April 24	W-A			Seismic activity about 23h36m.
	April 28	W-A			Seismic activity about 10h.

Little Rock Bulletin for 1934

No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
21	May 1	W-A W-A W-A W-A		PEN pPE SEN sSEN	07-24-21 07-24-30 07-27-58 07-28-12	Depth of focus = 80 km. by Brunner Depth Chart. $\Delta = 19^{\circ}7$.
22	May 2	W-A W-A W-A W-A		PEN pPN SE sSE	09-51-32 09-51-39 09-55-13 09-55-27	Depth of focus = 80 km. by Brunner Depth Chart. $\Delta = 20^{\circ}6$
23	May 4	W-A W-A W-A W-A W-A W-A		iPEN PR1EN PR2EN iSEN iSR1EN iSR2	04-44-13 04-45-33 04-46-09 04-50-44 04-53-31 04-54-15	H = 04h36m15s. $\Delta = 42^{\circ}8$
	May 5	W-A		Seismic activity about 01h26m22s, 4h22m, and 12h49m.		
24	May 6	W-A W-A W-A		ePEN iSEN iLEN	08-14-12 08-18-31 08-19-15	H = 08h08m55s. $\Delta = 23^{\circ}8$.
	May 13	W-A		Seismic activity about 9h24m.		
25	May 14	W-A W-A		iPN iLN	13-19-26 13-25-08	Epicenter: 28° N, 113° W. $\Delta = 19^{\circ}0$.
26	May 14	W-A W-A W-A		ePN eSN eLN	22-21-15 22-27-58 22-33-29	H = 22h13m02s. Epicenter at $56^{\circ}2$ N, $150^{\circ}7$ W. $\Delta = 44^{\circ}7$.
	May 15	W-A		Seismic activity about 14h30m.		
27	May 19	W-A W-A W-A W-A		PN pPN SN sSN	10-52-03 10-52-23 10-55-40 10-56-21	Depth of focus about 12 km. by Brunner Depth Chart. $\Delta = 20^{\circ}5$. Epicenter: $13^{\circ}3$ N, 92° W.
	May 22	W-A		Seismic activity about 11h16m.		
	May 27	W-A		Seismic activity about 18h52m.		
28	June 1	W-A W-A		ePnE iSnN	16-43-18 16-45-11	H = 16h40m45s. $\Delta = 9^{\circ}7$.
29	June 2	W-A W-A W-A W-A W-A		ePEN ePR1EN eSN eLE eLN	13-53-52 13-55-55 14-01-22 14-12-30 14-13-02	H = 13h42m46s. Epicenter at 65° N, 20° W. $\Delta = 52^{\circ}2$.
	June 2	W-A		Seismic activity about 16h57m. Probably an aftershock.		

Little Rock Bulletin for 1934

No.	Date	Inst.	Q/D Phase	G.M.T.	H-Remarks
21	May 1	W-A	W-A	07-24-31 07-24-30 07-27-28 07-28-18	Depth of focus = 80 km. by Brunner Depth Chart. A = 1977.
22	May 2	W-A	W-A	08-21-23 08-21-22 08-22-13 08-22-27	Depth of focus = 80 km. by Brunner Depth Chart. A = 2078.
23	May 4	W-A	W-A	04-24-13 04-28-22 04-28-03 04-29-44 04-23-21 04-24-15	H = 0483 miles. A = 4278.
	May 5	W-A			Seismic activity about 018325Z, 4225Z, and 1245Z.
24	May 6	W-A	W-A	08-14-12 08-13-21 08-13-12	H = 0310 miles. A = 2278.
	May 12	W-A			Seismic activity about 0325Z.
25	May 13	W-A	W-A	13-19-33 13-25-08	Epicenter: 232° N, 113° W. A = 1970.
26	May 14	W-A	W-A	22-27-28 22-27-28 22-28-29	H = 2213 miles. Epicenter at 282° W, 1807° W. A = 4497.
	May 15	W-A			Seismic activity about 1430Z.
27	May 19	W-A	W-A	10-28-31 10-27-40 10-28-23	Depth of focus about 100 km. by Brunner Depth Chart. A = 8078. Epicenter: 132° N, 82° W.
	May 23	W-A			Seismic activity about 1118Z.
	May 27	W-A			Seismic activity about 1233Z.
28	June 1	W-A	W-A	12-12-32 12-12-11	H = 1214 miles. A = 977.
29	June 2	W-A	W-A	14-01-23 14-01-23 14-13-32	H = 1243 miles. Epicenter at 282° W, 1807° W. A = 2278.
	June 3	W-A			Seismic activity about 1257Z. Probably an aftershock.

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Bulletin for 1934

Geographic Coordinates $34^{\circ}47'$ N; $92^{\circ}21'$ W.

Station not in operation during the months of June, July, August, and September.

No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
30	Oct. 18	W-A W-A W-A W-A W-A W-A		ePR ₁ _E iSKS _E eSKKS _E ePS _E eL _E F	08-07-01 08-13-16 08-14-04 08-16-15 08-37-30 09-15 ⁺	$\Delta = \text{ca } 102^{\circ}$
31	Oct. 26	W-A W-A W-A W-A W-A		eP _N epP _N eS _{EN} esS _{EN} F	15-02-46 15-02-51 15-03-16 15-03-24 15-15 ⁺	$\Delta = 18^{\circ}5$ About 35 Km. deep
32	Oct. 29	W-A W-A W-A W-A W-A		eP _E ePR ₁ _E eS _{EN} eL _{EN} eM _{EN} F	02-38-55 02-39-15 02-42-21 02-43-44 02-45-20 03-30 ⁺	$\Delta = 18^{\circ}1$
33	Oct 30	W-A W-A W-A W-A		- eP _N (E) eS _E eM _{EN} F	02-27-09 02-38-02 02-38-05 02-39-20	$\Delta = 4^{\circ}1 = 282$ miles Felt at Shawnee- town, Harrisburg, Eldorado, and Golconda, Illinois Tentative epicen- ter; $37^{\circ}31'$ N, $88^{\circ}30'$ W.

Rev. Joseph A. Murray
Director of the Station

Rev. James B. Macelwane, S.J.
Director of the Department of
Geophysics
Saint Louis University

C. G. Dahm
Instructor
Saint Louis University

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Two Wood-Anderson short-period seismographs, Howard clock, time checked by radio signals.

Bulletin for 1934

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No.	Date	Inst.	C/D	Phase	G.M.C T.	H--Remarks
34	Nov. 5	W-A W-A W-A W-A W-A W-A W-A		ePEN ipPEN eSE esSE eE eME F	23-12-16 23-12-30 23-20-24 23-20-24 23-22-24 23-36-20 24-20±	Tentative Epicenter 53°2'N. 176.7°W H=23h02m28s Focal Depth 50km. by Brunner Depth Chart Δ= 59.8.
35	Nov. 7	W-A W-A W-A		iPEN iSE F	08-36-52 08-39-52 09-00±	
36	Nov. 18	W-A W-A W-A		iPEN eE F	09-29-54 09-39-19 09-45±	
37	Nov. 18	W-A W-A W-A		ePEN iME(N) F	15-07-45 15-13-17 15-30±	
38	Nov. 18	W-A W-A W-A W-A W-A		ePR ₁ E eSKSEN eEN eSR ₁ EN F	22-59-54 23-03-34 23-05-28 23-20-25 23-45±	Southwest of Tasmania. Coordinates about 138°E, 47°S
39	Nov. 23	W-A W-A W-A W-A		ePEN eSEN? iMEN F	23-45-38 23-47-04 23-47-24 23-52±	Δ=7.4?
40	Nov. 27	W-A W-A W-A W-A W-A W-A W-A		eP ¹ N ePR ₁ E eSKPE eSKS eSR ₁ eLE F	06-33-10 06-35-10 06-36-15 06-40-10 06-52-19 07-19 08-00±	

Little Rock Bulletin for 1934

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No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
41	Nov. 30	W-A		ePE	02-09-47	Tentative Epicenter 18°N, 105°W. Provisional H=02h 05m12s Δ=1999
		W-A		iPE	02-09-53	
		W-A		iPR ₁ E	02-10-06	
		W-A		iSE	02-13-30	
		W-A		iSR ₁ E	02-14-16	
		W-A		iME	02-16-24	
		W-A		F	04-00±	

Minor Seismic Movements: Nov. 2, 18h20m-18h35m; Nov. 18, 3h45m-4h;
 Nov. 19, 5h54m-6h5m; Nov. 25, 8h30m-8h45m; Nov. 27, 8h50m-
 9h00m; Nov. 29, 5h33m-5h50m.

James B. Macelwane, S.J.
 Director

C. G. Dahm
 Instructor

Little Rock Bulletin for 1934

No.	Date	Inst.	G/D Phase	G. R. O. T.	H-Remarks
41	Nov. 30	7-A	ep	02-00-17	Central Seismometer
		7-A	ip	02-00-57	180° 100W
		7-A	lp	02-10-05	Provisional 180-020
		7-A	sp	02-13-30	Omissa
		7-A	sr	02-14-15	4-1933
		7-A	lv	02-15-24	
		7-A	f	01-003	

Minor Seismic Movements: Nov. 2, 1880-1875m; Nov. 19, 1875-1870m; Nov. 25, 1870-1865m; Nov. 29, 1865-1860m

O. G. Dahn
Instructor

James H. Wadsworth, S.J.
Director

LITTLE ROCK

LITTLE ROCK COLLEGE SEISMOLOGICAL OBSERVATORY, PULASKI HEIGHTS, LITTLE ROCK, ARK., U. S. A.

(In cooperation with St. Louis University, St. Louis, Mo.—Records kept in St. Louis)

Two Wood-Anderson short-period seismographs, Howard clock, time checked by radio signals.

Bulletin for 1934

9.

No.	Date	Inst.	C/D	Phase	G.M.T.	H--Remarks
42	Dec. 2	W-A W-A W-A		e ^P EN iN F	15-00-29 15-08-05 15-15±	
43	Dec. 3	W-A W-A W-A W-A		iPN iN eSE F	01-40-11 01-41-28 01-43-58 02-00±	Δ = 2094 Foreshock
44	Dec. 3	W-A W-A W-A W-A W-A		ePN(E) iPN(E) iN iSE iSR ₁ E Surface waves very small. F	02-43-05 02-43-06 02-44-07 02-46-56 02-47-49 03-30±	Δ = 2098 Tentative epicen- ter: 14°3 N, 88°8 W. H=02h38m23s. Destructive in western Honduras.
45	Dec. 4	W-A W-A W-A W-A W-A W-A		ePN e ^P PN iSN i ^P SN eSSN F	17-34-25 17-35-14 17-42-15 17-42-47 17-43-47 18-10±	Δ = 5896 Tentative epicen- ter: 19°7 S, 69°5 W. H=17h24m53s. Depth of focus 200 km. by Brunner Depth Chart. Destructive at Zapiga in north- ern Chile.
46	Dec. 5	W-A W-A W-A W-A		iPN(E) iN eSE F	21-57-38 21-57-41 22-01-19 22-10 ±	Δ = 1997 Aftershock from Honduras.
47	Dec. 8	W-A W-A W-A W-A W-A		ePE iN eEN iME F	09-39-58 09-40-13 09-46-22 09-48-26 10-00±	

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No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
48	Dec. 14	W-A W-A W-A W-A W-A W-A		iP _N (E) i _E N i _N N i _E N eM _E N F	14-33-40 14-33-46 14-34-37 14-34-55 14-37-05 14-45±	
49	Dec. 15	W-A W-A W-A W-A W-A		e _N eSKS _N eL _E eM _E F	02-16-42 02-26-29 02-47-00 02-58-35 04-10±	
50	Dec. 21	W-A W-A W-A		eP _{EN} eM _{EN} F	18-48-00 18-55-00 19-10±	
51	Dec. 22	W-A W-A W-A W-A		eP _N iS _{EN} eL _{EN} F	14-34-47 14-39-22 14-42-44 15-10±	Tentative Epicenter 90° N, 87° W. Provisional H=14h 29ml0s. Δ = 26.2
52	Dec. 23	W-A W-A W-A W-A		eP _{EN} eS _{EN} esS _{EN} F	10-02-31 10-10-32 10-11-19 10-30±	Δ = 58° 100 km. deep.
53	Dec. 24	W-A W-A W-A W-A W-A		eP _{EN} i _{EN} iS _E isS _E ? F	14-40-14 14-41-42 14-44-07 14-44-40 15-05±	
54	Dec. 30	W-A W-A W-A W-A W-A W-A W-A		eP _{EN} i _E (N) iS _N iSR _{EN} iL _N iL _E F	13-56-39 13-56-45 14-00-22 14-01-10 14-02-11 14-02-16 15-15±	Tentative Epicenter: 32. N, 115.5 W. Provisional H=13h 52ml1s. Felt in Southern Arizona and Califor- nia. Δ = 19.9

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11.

No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
55	Dec. 31	W-A		iP _E	18-50-09	$\Delta = 19^{\circ}7$
		W-A		iPR ₁	18-50-34	Tentative Epicenter
		W-A		iS _N	18-53-54	31.8 N, 115 W.
		W -		eSR ₁ EN	18-54-36	Provisional H=18h
		W-A		eLEN	18-55-40	45m38s.
		W-A		F	21-50	Felt in Southern Arizona and Cali- fornia.

Minor Seismic Movements: Dec. 3, 4h43m-4h50m; Dec. 9, 11h40m-11h50m; Dec. 21, 19h40m-19h55m.

Rev. Joseph A. Murray
Director of the Station

Rev. James B. Macelwane, S. J.
Director of the Department of
Geophysics
Saint Louis University

C. G. Dahm
Instructor
Saint Louis University,

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No.	Date	Instr.	Obs.	Phase	G.M.C.T.	H--Remarks
53	Dec. 31	W-A		1st	18-50-08	A = 1934
		W-A		1st	18-50-34	Tentative Epicenter
		W-A		1st	18-52-54	37.8 N, 113 W
		W-A		1st	18-54-38	Provisional H-124
		W-A		1st	18-55-40	452322
		W-A		1st	21-50	Yolt in Southern
		W-A		1st		Arizona and Calif
						1934

Major Seismic Movements: Dec. 2, 4:43m-4:50m; Dec. 9, 11:40m-11:50m; Dec. 31, 12:40m-1:00m

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44	Dec. 3	W-A W-A W-A W-A W-A		e ^P N(E) i ^P N(E) iN i ^S E i ^S R ₁ E Surface waves very small. F	02-43-05 02-43-06 02-44-07 02-46-56 02-47-49 03-30±	Δ = 2098 Tentative epicen- ter: 14°3 N, 88°8 W. H=02h38m23s. Destructive in western Honduras.
45	Dec. 4	W-A W-A W-A W-A W-A W-A		e ^P N e ^P N i ^S N i ^P S _N e ^S S _N F	17-34-25 17-35-14 17-42-15 17-42-47 17-43-47 18-10±	Δ = 5896 Tentative epicen- ter: 19°7 S, 69°5 W. H=17h24m53s. Depth of focus 200 km. by Brunner Depth Chart. Destructive at Zapiga in north- ern Chile.
46	Dec. 5	W-A W-A W-A W-A		i ^P N(E) iN e ^S E F	21-57-38 21-57-41 22-01-19 22-10 ±	Δ = 1997 Aftershock from Honduras.
47	Dec. 8	W-A W-A W-A W-A W-A		e ^P E iN e ^E N i ^M E F	09-39-58 09-40-13 09-46-22 09-48-26 10-00±	

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No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
48	Dec. 14	W-A W-A W-A W-A W-A W-A		iP _N (E) i _E N i _E N i _E N e _E N F	14-33-40 14-33-46 14-34-37 14-34-55 14-37-05 14-45 [±]	
49	Dec. 15	W-A W-A W-A W-A W-A		e _N e _S K _S _N e _L E e _E F	02-16-42 02-26-29 02-47-00 02-58-35 04-10 [±]	
50	Dec. 21	W-A W-A W-A		eP _E N e _L E F	18-48-00 18-55-00 19-10 [±]	
51	Dec. 22	W-A W-A W-A W-A		eP _N i _S E e _L E F	14-34-47 14-39-22 14-42-44 15-10 [±]	Tentative Epicenter 9° N, 87° W. Provisional H=14h 29ml0s. Δ = 26°2
52	Dec. 23	W-A W-A W-A W-A		eP _E N e _S E e _S E F	10-02-31 10-10-33 10-11-19 10-30 [±]	Δ = 58° 100 km. deep.
53	Dec. 24	W-A W-A W-A W-A W-A		eP _E N i _E N i _S E i _S E ? F	14-40-14 14-41-42 14-44-07 14-44-40 15-05 [±]	
54	Dec. 30	W-A W-A W-A W-A W-A W-A		eP _E N i _S (N) i _S i _S R _L E i _L N i _L E F	13-56-39 13-56-45 14-00-22 14-01-10 14-02-11 14-02-16 15-15 [±]	Tentative Epicenter: 32.N, 115.5 W. Provisional H=13h 52mls. Felt in Southern Arizona and Califor- nia. Δ = 19°9

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No.	Date	Inst.	C/D	Phase	G.M.C.T.	H--Remarks
55	Dec. 31	W-A W-A W-A W - W-A W-A		iP _E iPR ₁ iS _N eSR ₁ EN eLEN F	18-50-09 18-50-34 18-53-54 18-54-36 18-55-40 21-50	$\Delta = 19^{\circ}7$ Tentative Epicenter 31.8 N, 115 W. Provisional H=18h 45m38s. Felt in Southern Arizona and Cali- fornia.

Minor Seismic Movements: Dec. 3, 4h43m-4h50m; Dec. 9, 11h40m-11h50m; Dec. 21, 19h40m-19h55m.

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