

CAPE GIRARDEAU
 SEISMIC STATION, SOUTHEAST MISSOURI STATE TEACHERS COLLEGE, CAPE GIRARDEAU, MO., U.S.A.
 (In cooperation with Saint Louis University, St. Louis, Mo.-Records kept in St. Louis)

Latitude: 37° 19' N., Longitude: 89° 32' W. Altitude: 134 m.

Short period Wood-Anderson seismographs, N and E components. Time checked by radio signals on records.

JANUARY, 1943

1.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
1	Jan. 14	W.A.	eN	21 ^h 39 ^m 15 ^s	Reported felt in some New England States.
		W.A.	eN	21 41 25	
		W.A.	i(M)N	21 41 34	
		W.A.	F	21 51 --	
No records from January 6 to January 13.					
2	Jan. 23	W.A.	iE	13 36 20	
		W.A.	F	13 45 --	
3	Jan. 24	W.A.	(e)E	09 32 18	
		W.A.	eE	09 32 33	
		W.A.	eE	09 35 10	
		W.A.	eE	09 35 35	
		W.A.	eE	09 36 40	
		W.A.	F	09 43 --	
4	Jan. 24	W.A.	ePE	20 46 58	Epicenter by U.S.C.G.S.: 15°+ N., 91°+ W. H = 20 ^h 41 ^m 57 ^s
		W.A.	ePR ₂ E	20 47 53	
		W.A.	iSE	20 51 04	
		W.A.	F	21 10 --	
5	Jan. 27	W.A.	ePN	02 55 29	Epicenter by J.S.A.: 51°2' N., 176°9' W. H = 02 ^h 45 ^m 26 ^s
		W.A.	eSN	03 03 51	
		W.A.	F	04 00 --	
6	Jan. 30	W.A.	ePE	05 40 34	Epicenter by J.S.A.: 0°3' S., 80°2' W. H = 05 ^h 33 ^m 53 ^s
		W.A.	eE	05 40 53	
		W.A.	eSE	05 46 33	
		W.A.	F	06 00 --	
7	Jan. 31	W.A.	ePE	08 33 34	Epicenter by J.S.A.: 18°8' N., 94°7' W. H = 08 ^h 29 ^m 12 ^s h = 100±km.
		W.A.	iSE	08 37 16	
		W.A.	F	08 51 --	

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FEBRUARY, 1943

2.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
8	Feb. 16	W.A. W.A. W.A. W.A.	iPNE eSNE esSNE F	07 ^h 37 ^m 50 ^s 07 45 12 07 47 21 09 -- --	Epicenter by J.S.A.: 15°2' S., 68°5' W. H = 07 ^h 28 ^m 41 ^s h = 300±km.
9	Feb. 24	W.A. W.A. W.A. W.A. W.A.	ePE eE eSE eE F	04 28 59 04 29 09 04 33 12 04 36 56 04 50 --	
10	Feb. 25	W.A.	iNE	22 03 06	Local Disturbance.

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MARCH, 1943

3.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
11	March 5	W.A. W.A. W.A.	ePN eSN F	00 ^h 38 ^m 12 ^s 00 43.4 01 00 --	Epicenter by J.S.A.: 5°5' N., 83°0' W. H = 00 ^h 31 ^m 53 ^s h = 50±km.
12	March 7	W.A. W.A. W.A.	ePE eSE F	03 12 27 03 21.2 04 10 --	Epicenter by J.S.A.: 58°2' N., 166°5' E. H = 03 ^h 01 ^m 45 ^s Possibly deeper than normal.
13	March 9	W.A. W.A. W.A.	ePN eSN F	03 27 37 03 29 21 03 36 --	Epicenter by J.S.A.: 41°0' N., 81°3' W. H = 03 ^h 25 ^m 25 ^s . Reported felt in Cleveland and surround- ing territory.
14	March 14	W.A. W.A. W.A. W.A. W.A.	iPN ipPN iSN isSN F	18 47 53 18 48 33 18 55 55 18 56 40 19 05 --	Epicenter by J.S.A.: 18°5' S., 68°3' W. H = 18 ^h 38 ^m 08 ^s h = 120±km.
15	March 15	W.A. W.A. W.A. W.A. W.A.	ePE epPE eE i(S)E F	23 12 13 23 13 25 23 16 12 23 22 13 23 46 --	Epicenter by J.S.A.: 15°0' S., 177°5' W. H = 22 ^h 59 ^m 17 ^s h = 300±km.
16	March 17	W.A. W.A. W.A. W.A.	ePE eSE eE F	23 08 13 23 16 38 23 17 01 23 25 --	
17	March 20	W.A. W.A.	eE F	21 03 09 21 11 --	
18	March 20	W.A.	eE	21 36 35	Local Disturbance.



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APRIL, 1943

4.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
19	April 1	W.A. W.A.	ePN F	11 ^h 37 ^m 56 ^s 14 45 --	
20	April 5	W.A. W.A. W.A.	e(P)E eE F	08 29 42 08 35 53 08 48 --	
21	April 6	W.A. W.A. W.A. W.A. W.A. W.A. W.A. W.A. W.A. W.A.	iPE iE ipPE isPE iPcPE ipPcPE iPR ₁ E ipPR ₁ E iSE isSE F	16 18 25 16 18 36 16 18 41 16 18 52 16 18 57 16 19 15 16 21 10 16 21 29 16 27 35 16 28 01 19 10 --	Epicenter by J.S.A.: 29°8 S., 71°0 W. H = 16 ^h 07 ^m 28 ^s h = 80±km. Destructive in Northern Chile.
22	April 7	W.A. W.A. W.A.	ePE eSE F	13 18 13 13 27 22 13 35 --	Aftershock of # 21
23	April 9	W.A. W.A. W.A. W.A. W.A.	ePR ₁ N e(S)E i(S)E e(sS)E F	09 06 56 09 13 03 09 13 05 09 14 17 09 25 --	Epicenter by J.S.A.: 15°7 N., 141°9 E. H = 08 ^h 48 ^m 42 ^s h = 200±km.
24	April 13	W.A. W.A.	e(P)N e(S)N	09 07 14 09 15 12	
25	April 16	W.A.	eE	21 52 51	Local Disturbance?
26	April 19	W.A. W.A. W.A.	ePN eSE F	01 23 59 01 27 53 01 45 --	
27	April 19	W.A.	eN	21 26 25	Local Disturbance.
28	April 19	W.A.	iN	22 00 00	Local Disturbance.

CAPE GIRARDEAU STATION BULLETIN (Con't.)

5.

APRIL, 1943

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
29	April 23	W.A. W.A. W.A.	ePN e(S)N F	18 ^h 18 ^m 02 ^s 18 26 10 18 28 --	
30	April 25	W.A.	iE	23 01 05	Local Disturbance.
31	April 29	W.A. W.A. W.A. W.A. W.A.	ePE e(SKS)E e(SKKS)E e(S)E F	15 37 18 15 47 33 15 48 08 15 48 30 15 57 --	

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MAY, 1943

6.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
N-S component did not operate during May, 1943.					
32	May 2	W.A. W.A. W.A.	ePE iSE F	17h24m17s 17 29 32 Lost	Epicenter by J.S.A.: 7°0' N., 80°1' W. H = 17h18m13s h = 100±km.
33	May 3	W.A. W.A. W.A.	ePE eSE F	10 21 14 10 25 22 10 34 --	
34	May 22	W.A. W.A. W.A.	ePE eSE F	09 13 11 09 22 12 09 27 --	
35	May 25	W.A.	eE	21 43 48	Local Disturbance.
36	May 25	W.A. W.A. W.A. W.A.	eP'E ePR ₁ E eE F	23 26 36 23 28 15 23 35 26 02 -- --	Time doubtful. Epicenter by J.S.A.: 7° N., 127° E. H = 23h07.7m
37	May 26	W.A. W.A. W.A.	ePE eSE F	10 36 47 10 41 16 11 25 --	Epicenter by J.S.A.: 15°5' N., 106°6' W. H = 10h31m12s



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JUNE, 1943

7.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
38	June 1	W.A. W.A. W.A.	ePE eSE F	01 ^h 20 ^m 34 ^s 01 25 01 01 47 --	
39	June 2	W.A. W.A. W.A.	ePE e(S)E F	05 28 47 05 32 24 05 43 --	
40	June 8	W.A. W.A. W.A. W.A.	eP'E eE eE F	21 02(22) 21 03 23 21 08 25 23.2	Epicenter by J.S.A.: 5° S., 102°5 E. H = 20 ^h 42 ^m 52 ^s
41	June 9	W.A. W.A. W.A.	e(P'E) e(PR ₁)E F	03 26 10 03 30 04 05.7	Same region as # 40.
42	June 13	W.A. W.A. W.A. W.A. W.A.	ePE eSKSE iSE e(SKKS)E F	05 24 30 05 35 07 05 35 25 05 35 42 Lost	Epicenter by J.S.A.: 42°0 N., 145°0 E. H = 05 ^h 11 ^m 52 ^s
43	June 15	W.A.	ePN	18 26 46	Epicenter by J.S.A.: 13°7 N., 93°1 W. H = 18 ^h 21 ^m 36 ^s h = slightly greater than normal.
44	June 15	W.A.	e(P)N	18 37 46	
45	June 15	W.A.	ePN	19 50 38	Aftershock of # 43.
46	June 15	W.A. W.A.	ePN eN	20 30 43 20 30 54	Aftershock of # 43.
47	June 15	W.A. W.A. W.A.	iPN e(S)N F	22 11 18 22 15 09 22 18 --	

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8.

JUNE, 1943

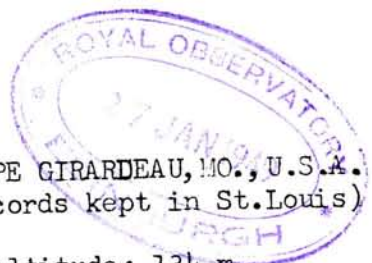
No.	Date	Inst.	Phase	G.M.C.T.	Remarks
48	June 24	W.A.	eE	12h33m39s	
		W.A.	iE	12 33 41	
49	June 25	W.A.	ePN	04 31(45)	
		W.A.	ePN	04 31 49	
		W.A.	eN	04 33 38	
		W.A.	iN	04 34 01	
		W.A.	F	04 40 --	
50	June 30	W.A.	ePN	11 07 09	
		W.A.	iN	11 10 54	
		W.A.	eN	11 16 04	
		W.A.	F	11 20 --	

John Harty
Director of the Station

James B. Macelwane, S. J.
St. Louis University.

Records read by
Harry K. Hail

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JULY, 1943

9.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
51	July 5	W.A. W.A. W.A.	ePN eSE F	21 ^h 17 ^m 24 ^s 21 25 05 21 30.0	16°6 S., 74°0 W. H = 21 ^h 07 ^m 58 ^s h = 100 ⁺ km. $\Delta P-H = 55^{\circ}9$ $\Delta_{meas} = 55^{\circ}8$
52	July 6	W.A. W.A. W.A.	eSE eN F	09 57 16 09 57 21 10 00.0	15°4 S., 69°2 W. H = 09 ^h 40 ^m 08 ^s h = 130 km. $\Delta S-H = 56^{\circ}4$ $\Delta_{meas} = 56^{\circ}3$
53	July 6	W.A. W.A.	eM F	22 17 35 22 21.0	Epicenter by N.E.S.A.: 44°9 N., 73°2 W. West of Swanton, Vermont.
54	July 9	W.A. W.A.	ePN F	23 37 56 23 44.0	52°9 N., 166°5 W. H = 23 ^h 28 ^m 37 ^s $\Delta P-H = 53^{\circ}7$ $\Delta_{meas} = 53^{\circ}8$
55	July 11	W.A. W.A. W.A. W.A.	ePR ₁ E epPR ₁ E eN F	02 29 00 02 29 44 02 30 41 02 49.0	32°7 S., 178°6 W. H = 02 ^h 10 ^m 32 ^s h = 180 ⁺ km. $\Delta PR_1-H = 107^{\circ}9$ $\Delta_{meas} = 108^{\circ}0$
56	July 12	W.A.	eN	08 32 47	
57	July 15	W.A.	eP	12 28 04	Lesser Antilles.
58	July 16	W.A.	ePN	16 02 40	Probably near Guatemala. Deep.
59	July 18	W.A. W.A. W.A. W.A.	ePN eN eSN F	08 05 31 08 05 41 08 13 53 08 18.4	Epicentral Region: 21°5 S., 70°5 W. H = 07 ^h 55 ^m 18 ^s May be slightly deeper than normal. $\Delta P-H = 61^{\circ}6$ $\Delta_{meas} = 61^{\circ}3$

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10.

JULY, 1943 (Con't.)

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
60	July 19	W.A. W.A. W.A.	ePN e(S)E F	11 ^h 14 ^m 54 ^s 11 19 33 11 30.0	12°1 N., 86°9 W. H = 11 ^h 09 ^m 30 ^s $\Delta_{P-H} = 24^{\circ}9$ $\Delta_{meas} = 24^{\circ}2$
61	July 21	W.A. W.A.	e(P)N F	04 25 31 04 30.0	Epicentral Region: 37° S., 110° W. H = 04 ^h 13.7 ^m
62	July 21	W.A. W.A.	ePN F	22 50 22 23 00.0	Ecuador.
63	July 22	W.A. W.A. W.A. W.A.	ePN e(PR ₂)N e(S)N F	02 16 40 02 18 18 02 22 34 02 30.0	0.7 S., 81°3 W. h = 02 ^h 09 ^m 23 ^s $\Delta_{P-H} = 37^{\circ}7$ $\Delta_{meas} = 38^{\circ}2$
64	July 23	W.A. W.A. W.A.	eP'N eP'N F	15 12 42 15 12 45 16 53.0	7°0 S., 111°3 E. H = 14 ^h 53 ^m 22 ^s h = 120 km. $\Delta_{P'-H} = 144^{\circ}5$ $\Delta_{meas} = 144^{\circ}4$
65	July 24	W.A. W.A. W.A.	ePN eSN F	23 34 43 23 38 47 23 50.0	Central America?
66	July 25	W.A.	eSoN	06 49 57.8	38°05 N., 91°3 W. H = 06 ^h 49 ^m 09.5 ^s $\Delta_{So-H} = 106.2$ miles. $\Delta_{meas} = 106.2$ miles. Southeast of Cuba, Mo. For details see <u>Trans.</u> <u>Am. Geo. Union</u> , vol. 27, pp. 320-323, June, 1946.
67	July 28	W.A. W.A. W.A.	eN e(S)N F	04 14 30 04 14 33 04 53.0	59°6 N., 149°0 W. H = 04 ^h 04 ^m 43 ^s May be slightly deeper than normal. $\Delta_{meas} = 43^{\circ}0$
68	July 29	W.A. W.A. W.A. W.A.	ePN iPN iSN F	03 07 58 03 08 02 03 12 27 05 54.0	18°7 N., 66°9 W. H = 03 ^h 02 ^m 15 ^s $\Delta_{P-H} = 26^{\circ}8$ $\Delta_{meas} = 27^{\circ}0$
69	July 29	W.A. W.A. W.A. W.A.	e(P)N? eSN eLN F	11 48 46 11 53 28 11 57.0 12 30.0	Indefinite beginning. Aftershock.

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11.

JULY, 1943 (Con't.)

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
70	July 30	W.A.	ePN	01 ^h 08 ^m 12 ^s	18°8 N., 66°7 W. H = 01 ^h 02 ^m 30 ^s $\Delta_{P-H} = 26^{\circ}7$ $\Delta_{meas} = 27^{\circ}0$
		W.A.	e(PR ₁)N	01 08 41	
		W.A.	e(PR ₂)N	01 09 10	
		W.A.	eSN	01 12 46	
		W.A.	eLN	01 15 49	
		W.A.	F	01 26.0	
71	July 30	W.A.	ePN	02 19 30	South America. Aftershock.
		W.A.	eN	02 19 41	
		W.A.	F	Lost	
72	July 30	W.A.	ePN	04 28 56	Aftershock. Puerto Rico.
		W.A.	eN	04 34 24	
		W.A.	F	05 00.0	
73	July 31	W.A.	ePR ₁ N	03 27 51	Aftershock. Puerto Rico. Deep?
		W.A.	F	04 10.0	

Minor Seismic Activity

Date	Inst.	Phase	G.M.C.T.	Remarks
July 12	W.A.	ePN	19 ^h 15 ^m 52 ^s	Blast?
	W.A.	eSN	19 15 56	
July 23	W.A.	eN	10 00 57	

John Hartly
Director of the Station

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AUGUST, 1943

12.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
74	Aug. 1	W.A. W.A. W.A. W.A.	e(SKKS)N eSN eSSN F	16 ^h 44 ^m 08 ^s 16 44 46 16 46 29 17 16.0	21°0 S., 170°9 E. H = 16 ^h 18 ^m 42 ^s h = 200 km. $\Delta_{S-H} = 109^{\circ}1$ $\Delta_{meas} = 110^{\circ}0$
75	Aug. 2	W.A. W.A. W.A. W.A.	eSKKSN e(S)?N eLN F	01 14 09 01 15 18 01 46.5 02 25.0	47°1 S., 166°4 E. H = 00 ^h 46 ^m 31 ^s $\Delta_{SKKS-H} = 124^{\circ}8$ $\Delta_{meas} = 124^{\circ}2$
76	Aug. 2	W.A.	ePR ₁ N	04 31 16	Puerto Rico.
77	Aug. 2	W.A. W.A.	ePN epPN	05 43 53 05 44 22	Deep.
78	Aug. 2	W.A. W.A. W.A.	ePN ePR ₁ N F	12 07 15 12 08 12 12 19.0	Puerto Rico.
79	Aug. 8	W.A. W.A. W.A. W.A. W.A.	ePN eN ePR ₁ N e(S)N F	00 44 23 00 44 35 00 44 47 00 48 54 01 10.0	18°5 N., 67°3 W. H = 00 ^h 38 ^m 45 ^s h = 50 km. $\Delta_{P-H} = 26^{\circ}7$ $\Delta_{meas} = 26^{\circ}9$
80	Aug. 8	W.A. W.A.	eFN F	07 09 00 07 16.0	
81	Aug. 8	W.A. W.A. W.A. W.A.	ePN ePR ₁ N eSN F	08 37 05 08 37 28 08 41 09 08 48.0	16°0 N., 96°4 W. H = 08 ^h 32 ^m 11 ^s $\Delta_{P-H} = 21^{\circ}9$ $\Delta_{meas} = 21^{\circ}8$
82	Aug. 8	W.A. W.A. W.A. W.A. W.A.	ePN epPN e(S)N e(sS)N F	15 39 35 15 40 25 15 47 45 15 49 03 15 15.5	Deep.

CAPE GIRARDEAU STATION BULLETIN (Con't.)

13.

AUGUST, 1943 (Con't.)

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
83	Aug. 9	W.A. W.A. W.A. W.A.	ePN eSN eN F	05h35 ^m 10 ^s 05 39 15 05 41 52 05 55.0	38°1 N., 118°5 W. H = 05 ^h 30 ^m 04 ^s $\Delta_{P-H} = 23^{\circ}1$ $\Delta_{meas} = 22^{\circ}9$
84	Aug. 10	W.A. W.A. W.A. W.A.	e(P)N eN eN F	14 10 48 14 11 08 14 17 04 14 20.0	
85	Aug. 10	W.A. W.A. W.A. W.A. W.A.	ePN eN eSN eN F	15 24 30 15 24 39 15 33 36 15 33 53 16 11.0	55°1 N., 163°5 E. H = 15 ^h 13 ^m 31 ^s $\Delta_{P-H} = 68^{\circ}6$ $\Delta_{meas} = 68^{\circ}4$
86	Aug. 10	W.A. W.A. W.A. W.A.	ePN eN eSN F	15 47 46 15 47 55 15 56 53 Lost.	Aftershock.
87	Aug. 11	W.A. W.A. W.A.	ePN e(S)N F	12 53 10 12 58 44 13 00.0	Lesser Antilles.
88	Aug. 12	W.A. W.A. W.A. W.A.	ePN eSKSN (eSN) F	05 04 18 05 14 58 05 16 05 05 19.0	Japan.
89	Aug. 12	W.A.	e(P)N	05 43 47	
90	Aug. 12	W.A. W.A. W.A. W.A.	ePN eSN eLN F	11 23 18 11 28 07 11 30 52 11 34.0	Puerto Rico.
92	Aug. 13	W.A.	e(P)N	01 25 56	Indefinite.
92	Aug. 14	W.A. W.A. W.A.	ePN eN F	02 45 03 02 45 12 02 52.0	Mexico.
93	Aug. 17	W.A. W.A.	eSN F	03 24 20 03 28.0	Region: 17° N., 78° W. H = 03 ^h 15.0 ^m
94	Aug. 21	W.A.	ePN	09 21 24	Probable Epicenter: 26°4 S., 113°6 W. H = 09 ^h 10 ^m 33 ^s $\Delta_{P-H} = 67^{\circ}4$ $\Delta_{meas} = 67^{\circ}5$

CAPE GIRARDEAU STATION BULLETIN (Con't.)

144

AUGUST, 1943 (Con't.)

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95	Aug. 22	W.A. W.A.	eN eSN	11 ^h 13 ^m 56 ^s 11 21 48	51.0° N., 174.5° W. H = 11 ^h 03 ^m 42 ^s h = 50±km. Δ _{S-H} = 58.9 Δ _{meas} = 58.9

Minor Seismic Activity

Date	Inst.	Phase	G.M.C.T.
August 1	W.A.	eN	03 ^h 51 ^m 33 ^s
5	W.A.	eN	16 03 46
6	W.A.	eN	19 34 53
7	W.A.	eN	12 15 26
9	W.A.	eN	21 29 14
13	W.A.	eN	15 35 05
17	W.A.	eN	01 11 27
17	W.A.	eN	09 26 30
17	W.A.	eN	09 27 09
17	W.A.	eN	22 12 08
18	W.A.	eN	16 37 43
18	W.A.	eN	19 01 37

C. PE GIRARDEAU

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SEPTEMBER, 1943

15.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
96	Sept. 2	W.A. W.A. W.A. W.A.	ePN epPN ePR ₁ N F	23 ^h 17 ^m 55 ^s 23 18 06 23 18 35 23 28.0	16°5 S., 100°4 W. H = 23 ^h 12 ^m 54 ^s h = 100±km. Δ _{P-H} = 23°2 Δ _{meas} = 22°9
97	Sept. 5	W.A. W.A. W.A. W.A. W.A.	eN eSKPN eN eN F	08 57 15 08 57 26 08 58 45 08 59 35 09 10 --	Region: 1/2° N., 125 1/2° W. H = 08 ^h 35.0 ^m
98	Sept. 6	W.A. W.A. W.A. W.A. W.A. W.A.	eP ₁ N ePR ₁ N eSKPN eN eN F	04 00 39 04 02 58 04 04 02 04 06 32 04 09 00 06 25.0	52°7 S., 159°6 E. H = 03 ^h 11 ^m 40 ^s Δ _{PR₁-H} = 129°8 Δ _{meas} = 130°5
99	Sept. 20	W.A. W.A. W.A. W.A.	e(pP)E e(sS)E eNE F	00 59 15 00 03 37 00 06 12 01 29 --	20°3 N., 108°7 W. H = 00 ^h 53 ^m 52 ^s h = 80 km. Δ _{meas} = 23°1
100	Sept. 23	W.A. W.A. W.A.	ePE eSE F	15 05 37 15 09 38 15 23 --	14°9 N., 91°7 W. H = 15 ^h 00 ^m 33 ^s Δ _{P-H} = 22°9 Δ _{S-P} = 22°0 Δ _{meas} = 22°2

Minor Seismic Activity

Date	Inst.	Phase	G.M.C.T.	Remarks
September 6	W.A.	Minor activity from 15 ^h 01 ^m to 15 ^h 09 ^m .		
7	W.A.	eE	19 ^h 45 ^m 55 ^s	Time Uncertain.
14	W.A.	eN	07 55 --	
23	W.A.	eE	12 48 31	



CAPE GIRARDEAU

SEISMIC STATION, SOUTHEAST MISSOURI STATE TEACHERS COLLEGE, CAPE GIRARDEAU, MO., U.S.A.
(In cooperation with Saint Louis University, St. Louis, Mo.-Records kept in St. Louis)

Latitude: $37^{\circ}19' N.$, Longitude: $89^{\circ}32' W.$ Altitude: 134 m.

Short period Wood-Anderson seismographs, N and E components. Time checked by radio signals on records.

OCTOBER, 1943

16.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
101	Oct. 13	W.A. W.A. W.A.	ePN eLN F	$01^h 49^m 25^s$ $01^h 55^m 44^s$ 05 12.0	Region: $26^{\circ}5' N.$, $110^{\circ} W.$ $H = 01^h 44^m 48^s$. $\Delta_{P-H} = 20^{\circ}3'$ $\Delta_{meas} = 20^{\circ}1'$
102	Oct. 16	W.A. W.A.	ePN F	10 06 50 10 18 --	Puerto Rico.
103	Oct. 16	W.A. W.A. W.A. W.A. W.A.	ePN epPN eSKSN eSKKSN F	13 21 33 13 21 53 13 31 46 13 31 58 13 38 --	$33^{\circ}9' N.$, $27^{\circ}8' E.$ $H = 13^h 08^m 50^s$ $h = 100 \pm km.$ $\Delta_{P-H} = 88^{\circ}8'$ $\Delta_{meas} = 88^{\circ}4'$
104	Oct. 23	W.A.	e(P)N	11 09 52	
105	Oct. 23	W.A.	ePN	17 18 39	South America.
106	Oct. 23	W.A. W.A. W.A. W.A. W.A.	eP'N e(PR ₃)N eSKSN eN F	17 42 07 17 46 47 17 48 51 17 49 20 18 45.0	$28^{\circ}5' N.$, $93^{\circ}4' E.$ $H = 17^h 23^m 33^s$ Possibly deeper than normal. $\Delta_{P'-H} = 114^{\circ}0'$ $\Delta_{meas} = 114^{\circ}4'$
107	Oct. 24	W.A. W.A.	eLN F	16 53 -- 17 05.0	$22^{\circ}0' S.$, $176^{\circ}6' W.$ $H = 16^h 04^m 40^s$. $\Delta_{meas} = 99^{\circ}0'$
108	Oct. 24	W.A. W.A. W.A.	ePN eSN F	23 34 10 23 43 24 23 46.0	$54^{\circ}2' N.$, $162^{\circ}0' E.$ $H = 23^h 23^m 06^s$ $h = 50 km.$ $\Delta_{P-H} = 70^{\circ}0'$ $\Delta_{meas} = 70^{\circ}0'$
109	Oct. 26	W.A. W.A.	e(L)N F	05 18 53 05 24 --	$37^{\circ}0' N.$, $123^{\circ}6' W.$ $H = 01^h 50^m 20^s$ $\Delta_{meas} = 26^{\circ}9'$

Minor Seismic Activity

Date	From	To
October 24	$10^h 44^m$	$11^h 07^m$

John Harty
Director of the Station

James B. Macelwane, S. J.
St. Louis University.

Records read by
Harry K. Haill.

CAPE GIRARDEAU

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Latitude: 37°19' N., Longitude: 89°32' W. Altitude: 134 m.

Short period Wood-Anderson seismographs, N and E components. Time checked by radio signals on records.

NOVEMBER, 1943

17.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
110	Nov. 2	W.A. W.A.	eN F	18 ^h 02 ^m 34 ^s 18 10 --	Probably the earthquake reported by Pasadena as: 32°58' N., 116°00' W. H = 17 ^h 50 ^m 41 ^s
111	Nov. 2	W.A. W.A. W.A. W.A.	e(PR ₁)N eN eSKSN F	18 27 40 18 33 23 18 33 35 19 40 --	General Region: 59° S., 30° W. H = 18 ^h 08.7 ^m Possibly deeper than normal.
112	Nov. 3	W.A. W.A. W.A. W.A. W.A. W.A. W.A.	ePN eS _c PN eSN eN e(SR ₁)N eN eLN F	14 40 31 14 46 32 14 47 09 14 48 37 14 50 25 14 52 10 14 53 32 16 25 --	61.0° N, 149.0° W. H = 14 ^h 32 ^m 25 ^s ΔP-H = 43.9 Δmeas = 43.8
113	Nov. 3	W.A.	ePN	22 11 01	Epicentral Region: 11.4° S., 76.4° W. H = 22 ^h 02 ^m 08 ^s ΔP-H = 50.0 Δmeas = 50.1
114	Nov. 6	W.A. W.A. W.A. W.A. W.A. W.A. W.A.	eP ¹ N ePR ₁ N eN eE eSKPN eN e(S)N F	08 50 49 08 53 06 08 53 17 08 53 29 08 54 06 09 00 39 09 01 32 17 40 --	6.1° S., 133.9° E. H = 08 ^h 31 ^m 40 ^s h = 50 ± km ΔPR ₁ -H = 131.6 Δmeas = 130.3
115	Nov. 8	W.A. W.A. W.A.	ePN eN F	07 08 41 07 12 50 07 27 --	U.S.C.G.S. gives: 81° N., 2.95° W. H = 06 ^h 59 ^m 19 ^s
116	Nov. 9	W.A. W.A. W.A. W.A. W.A. W.A. W.A.	ePN e(PcP)N epPN e(pPcP)N eN eN eSN F	11 58 57 11 59 04 11 59 17 11 59 23 11 59 26 11 59 36 12 09 09 12 13 --	43.8° N., 148.2° E. H = 11 ^h 46 ^m 42 ^s h = 100 ± km ΔP-H = 83.5 Δmeas = 83.8

CAPE GIRARDEAU STATION BULLETIN (Con't.)
NOVEMBER, 1943 (Con't.)

18.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
117	Nov. 16	W.A. W.A. W.A. W.A.	ePN iPN eSN F	11 ^h 17 ^m 22 ^s 11 47 23 11 54 58 12 01 --	Epicentral Region: 14.9 S., 74.8 W. H = 11 ^h 38 ^m 06 ^s h = 80 km. $\Delta_{P-H} = 53.8$ $\Delta_{meas} = 54.0$
118	Nov. 20	W.A.	ePN	08 30 54	Region: 15.5N., 105.5W. H = 08 ^h 25.3 ^m
119	Nov. 20	W.A. W.A. W.A.	ePN eSN F	19 05(15) 19 11 45 19 13 --	Region: 106° W., 4° S. H = 18 ^h 57.1 ^m
120	Nov. 21	W.A. W.A. W.A.	ePN eSN F	19 46 46 19 50 27 20 06 --	Epicentral Region: 17.0 N., 98.5 W. H = 19 ^h 42 ^m 00 ^s h = 50 km. $\Delta_{P-H} = 21.4$ $\Delta_{meas} = 21.3$
121	Nov. 28	W.A. W.A.	ePN F	17 22 38 18 10 --	Epicentral Region: 52.6 N., 153.4 E. H = 17 ^h 10 ^m 58 ^s $\Delta_{P-H} = 76.6$ $\Delta_{meas} = 76.2$

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Short period Wood-Anderson seismographs, N and E components. Time checked by radio signals on records.

DECEMBER, 1943

19.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
122	Dec. 1	W.A. W.A. W.A. W.A. W.A.	ePN epPN eSN esSN F	10 ^h 44 ^m 49 ^s 10 45 18 10 52 58 10 53 41 11 29 --	Epicentral Region: 18°6 S., 69°4 W. h = 100+km. H = 10 ^h 35 ^m 00 ^s $\Delta_{P-H} = 59^{\circ}3$ $\Delta_{meas} = 59^{\circ}1$
123	Dec. 3	W.A. W.A. W.A. W.A.	ePN eSKSN eSN F	07 05 29 07 15 47 07 16 00 07 18 --	42°3 N., 114°0 E. H = 06 ^h 52 ^m 50 ^s h = 50±km. $\Delta_{P-H} = 86^{\circ}7$ $\Delta_{meas} = 86^{\circ}8$
124	Dec. 7	W.A. W.A. W.A. W.A.	ePN epFN eSN F	01 12 08 01 12 26 01 16 02 01 27 --	Epicentral Region: 15°9 N., 93°8 W. H = 01 ^h 07 ^m 22 ^s h = 100±km. $\Delta_{P-H} = 21^{\circ}8$ $\Delta_{meas} = 21^{\circ}9$
125	Dec. 25	W.A.	Earthquake recorded between 08 ^h and 09 ^h . No time corrections.		
126	Dec. 26	W.A. W.A. W.A. W.A. W.A.	ePN eSN eN eMN F	05 02 33 05 06 39 05 09 58 05 10 40 05 30 --	Time doubtful. Epicenter by St. Louis: 18°8 N., 104°2 W. H = 04 ^h 57 ^m 22 ^s $\Delta_{P-H} = 23^{\circ}6$ $\Delta_{meas} = 23^{\circ}1$

John Hartly
 Director of the Station

James B. Macelwane, S. J.
 St. Louis University

Records read by
 Harry K. Hail