

CAPE GIRARDEAU

SEISMIC STATION, SOUTHEAST MISSOURI STATE TEACHERS COLLEGE, CAPE GIRARDEAU, MO., U. S. S.

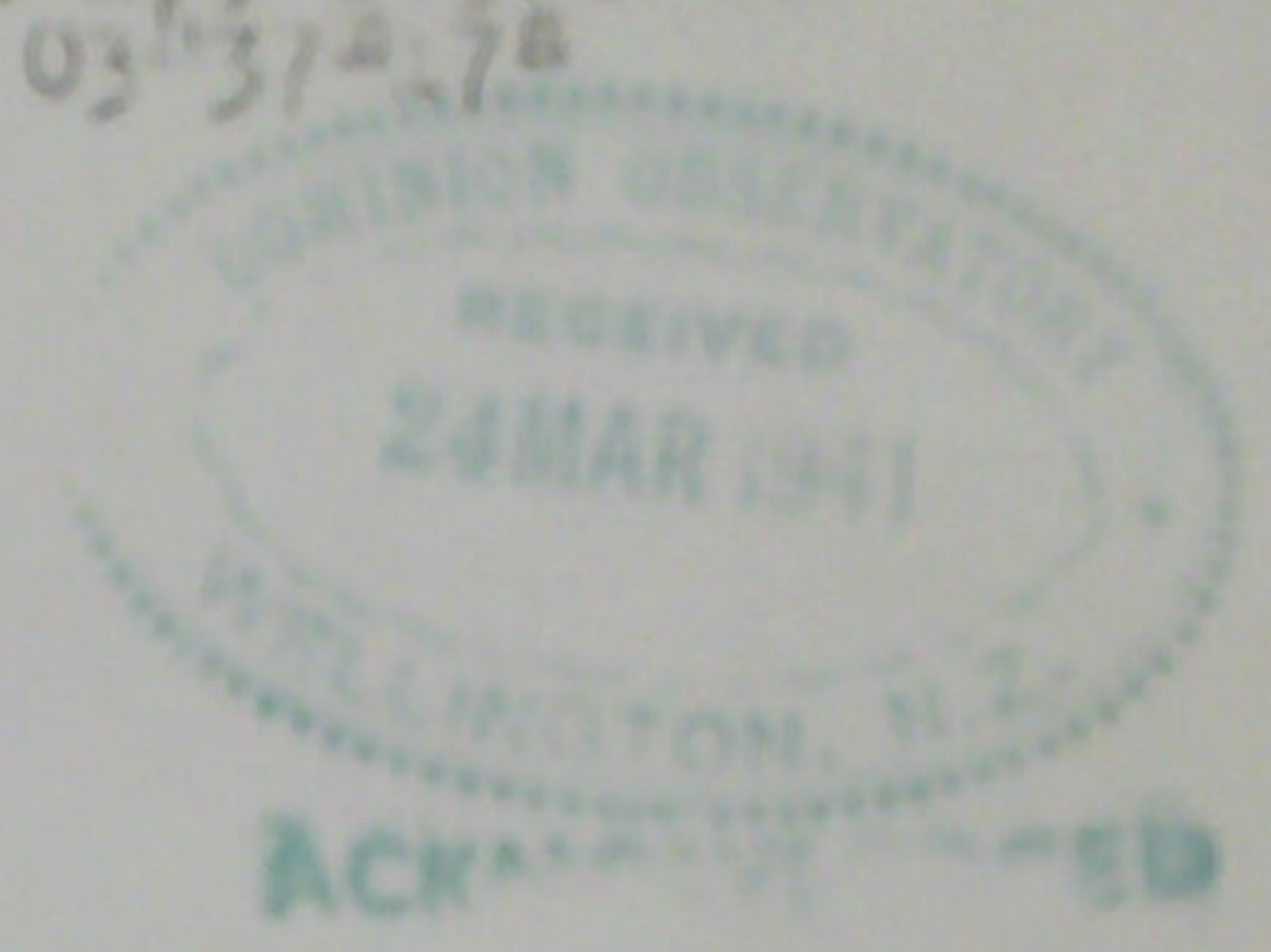
(In cooperation with Saint Louis University, St. Louis, Mo.—Records kept in Saint Louis)

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

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

Bulletin for September and October, 1940

4.

No.	Date	Phase	G.M.C.T.	Remarks
15	Aug. 22	ePN iPN iPE iNE iPR ₁ E iSN eSR ₁ N eSE eME F	07 ^h 36 ^m 32 ^s 03 36 40 03 36 42 03 37 07 03 38 29 03 41 04 03 48 02 03 51 07 03 56 07 05 00 _±	$\Delta g-p = 54.0$ 52.2 N. 169.0 W. $H = 03^h 37^m 28^s$ 
16	Sept. 18	iPE epPE iE iSE esSE F	15 ^h 19 ^m 23 ^s 15 19 51 15 20 05 15 27 39 15 28 29 15 29 _±	$\Delta g-p = 62.0$ $h = 150$ km. Off Pacific Coast of Chile. Near 22°0 South Latitude.
17	Sept. 19	ePR ₁ E eE eSR ₁ E eE eE F lost in change of records.	18 ^h 38 ^m 53 ^s 18 39 23 18 44 54 18 45 52 18 48 31	New Zealand gives 23° S. 169° E. $H = 18^h 19.7^m$ $\Delta PR_1-H = 112.0$
18	Sept. 20	iSN F	00 ^h 46 ^m 55.5 ^s 00 47 30	Near earthquake, possi- bly New Madrid region.
19	Sept. 21	eNE F	14 ^h 14 ^m 41 ^s 15 25 _±	Phase indistinct.
20	Sept. 21	iN iN F	18 ^h 51 ^m 21 ^s 18 51 22 18 51 40	Blast(?)

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21	Sept. 23	eN eNE iSNE iNE eN F	07 ^h 26 ^m 44 ^s 07 26 57 07 32 49 07 32 54 07 34 24 07 36±	With Pasadena data, Ten- tative Epicenter, 24°0' S., 64°0' W. H = 37 ^h 15.1 ^m h = 570 km.
22	Oct. 1	iPNE ipPNE eSE esSE F	10 ^h 53 ^m 42 ^s 10 54 00 11 02 33 11 02 53 11 04±	$\Delta s-p = 6794$ Near 28°5' S., 72°0' W. H = 10 ^h 42 ^m 52 ^s h = 100 km.
23	Oct. 1	eE eE eN F	22 ^h 01 ^m 00 ^s 22 01 13 22 01 54 22 03±	Character indistinct.
24	Oct. 12	e(P)NE iN ePR ₂ N eE eSE F	03 ^h 21 ^m 36 ^s 03 21 51 03 22 24 03 25 32 03 25 52 03 50±	$\Delta s-H = 2802$ J.S.A. gives, H = 03 ^h 15.2 ^m 99°0' N., 87°0' W. h over 50 km.
25	Oct. 3	ePN epPN eSNE esSNE F	05 ^h 06 ^m 15 ^s 05 06 40 05 14 24 05 15 06 05 17±	$\Delta s-p = 6190$ Near 20°8' S., 70°4' W. h about 150 km. Probably foreshock of No. 26.
26	Oct. 4	ePNE ipPN eN eE eE eSE iE F	08 ^h 04 ^m 51 ^s 08 05 03 08 05 21 08 12 59 08 13 14 08 13 25 08 13 35 09 30±	$\Delta p-H = 6190$ J.S.A. gives, 20°8' S., 70°4' W. H = 07 ^h 54 ^m 28 ^s h = 75 km.

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27	Oct. 5	iPN iPR ₁ N iN eSR ₁ N eN F	14 ^h 41 ^m 36 ^s 14 41 48 14 46 24 14 49 50 14 51 00 15 15±	$\Delta p-H = 29^{\circ}3$ J.S.A. gives $H = 14^h38^m30^s$ 89.7 N., 84.6 W.
28	Oct. 6	ePN iPN eN eSN eE eE F	15 ^h 48 ^m 25 ^s 15 48 26 15 49 07 15 56 27 15 56 30 15 56 57 16 00±	$\Delta s-p = 57^{\circ}5$ Near 18.00 S., 71.90 W. $H = 15^h38.7^m$
29	Oct. 11	ePN ePR ₁ N F	08 ^h 01 ^m 22 ^s 08 03 07 09 00±	$\Delta p-H = 43^{\circ}5$ $H = 07^h53.3^m$ 61.0 N., 149.0 W.
30	Oct. 11	ePN eSN F	18 ^h 53 ^m 22 ^s 19 03 25 20 00±	$\Delta p-H = 79^{\circ}8$ $H = 18^h41^m17^s$ 40.7 S., 73.6 W.
31	Oct. 22	ePNE ep ₁ NE esSE F	06 ^h 48 ^m 52 ^s 06 49 27 06 59 40 07 45±	$\Delta p-H = 79^{\circ}0$ $H = 06^h37.1^m$ In Roumania. Near 46.0 N., 27.0 E. $h = 130$ km.
32	Oct. 23	ePN epPN e(PR ₂)N F	02 ^h 30 ^m 47 ^s 02 31 17 02 33 23 02 34±	Δ about 500. Probably off Pacific Coast of South America. $h = 100 +$ km.
33	Oct. 24	ePNE ePcPNE epPN ePR ₁ N Record changed	20 ^h 18 ^m 10 ^s 20 18 20 20 18 30 20 21 16 20 21 36	Δ about 730. J.S.A. give 33.5 S., 73.0 W. $H = 20^h07^m$ $h = 100$ km.

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34	Oct. 27	1P _{NE} 1N 1NE 1PR _{2N} 1N 1N eE eE eSE e(SR ₁)E F	05 ^h 41 ^m 26 ^s 05 41 33 05 41 57 05 42 18 05 42 34 05 42 51 05 44 36 05 45 36 05 46 26 05 47 53 07 00±	Ap. H = 27.06 Δreas = 2796 J.S.A. gives, 1090 N., 34.07 W. H = 05 ^h 35 ^m 35 ^s
35	Oct. 28	eP _N eN e(S) _N eN F	01 ^h 44 ^m 50 ^s 01 45 31 01 53 50 01 54 10 02 00±	weak

Other Seismic Activity:

September 21, 12^h00^m
 October 4, 09^h00^m
 October 14, 16^h00^m to 17^h00^m

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

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



23 SEPT 1941

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8.

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
36	Nov. 8		iN iN F	22 ^h 21 ^m 45.5 ^s 22 21 45.8 22 22±	Blast?
37	Nov. 10		ePNE ipPN ipPcPNE ePR2N eSNE isSKSNE F	01 ^h 50 ^m 59 ^s 01 51 28 01 51 39 01 56 02 02 00 43 02 01 00 02 00	$\Delta P-H = 79^{\circ}0$ J.S.A. gives 42.2 N 26.1 E. H = 01 ^h 39 ^m 14 ^s h = 150 km.
38	Nov. 10		epN iN iPR2N iN eSN F	20 ^h 45 ^m 10 ^s 20 45 20 20 45 38 20 45 45 20 48 59 21 00±	$\Delta S-P = 20^{\circ}8$ Probably Near 17.5 N. 83.0 W. H = 20 ^h 40 ^m 26 ^s Deep?
39	Nov. 19		iE iE iE F	22 ^h 23 ^m 02 ^s 22 23 03 22 23 06 22 23 16	Blast?
40	Nov. 23		eN eN eE eN F	03 ^h 54 ^m 38 ^s 03 55 42 03 58 54 04 00 22 04 25±	Weak Character indistinct
41	Nov. 23		iP3N iS3NE F	21 ^h 18 ^m 21 ^s 21 18 34.5 21 20±	$\Delta S_3-P_3 = 71$ Miles local Earthquake

No.	Date	Inst	Phase	G.M.C.T.	Remarks
42	Dec. 7		eP _E iE iM _N eE iE iN iE F	22 ^h 21 ^m 19 ^s 22 21 21 22 28 03 22 28 08 22 28 10 22 28 16 22 28 49 22 35 [±]	$\Delta p_H = 21^{\circ}4$ Felt in San Diego J.S.A. gives 31 ^o .7 N., 115 ^o .1 W. H = 22 ^h 16.5 ^m
43	Dec. 20		eP _E eE eN iS _{NE} iL _N iL _E F	07 ^h 31 ^m 06 ^s 07 31 12 07 33 40 07 34 37 07 35 13 07 35 14 08 00 [±]	$\Delta p_H = 15^{\circ}4$ J.S.A. gives 43 ^o 42' N. 71 ^o 26' W. H = 07 ^h 27 ^m 28 ^s Felt in New England.
44	Dec. 20		e(P) _E eL _E F	23 ^h 47 ^m 05 ^s 23 57 [±] 24 05 [±]	Pasadena gives 40 ^o N. 124 ^o W. Felt in Humboldt County, California.
45	Dec. 23		eE eN iN F	21 ^h 57 ^m 52 ^s 21 59 24 21 59 42 22 02 [±]	
46	Dec. 24		eP _E iNE iL _{NE} F	13 ^h 47 ^m 23 ^s 13 50 31 13 51 36 14 10	Aftershock of No. 43 $\Delta p_H = 15^{\circ}3$ J.S.A. gives 43 ^o 42' N. 71 ^o 26' W. H = 13 ^h 43 ^m 46 ^s
47	Dec. 25		(eE) iS _{NE} iN iE F	06 ^h 49 ^m 31 ^s 06 50 22 06 50 25 06 51 00 06 53	Character indistinct. Possibly Local
48	Dec. 26		(eE) iNE eN F	06 ^h 42 ^m 44 ^s 06 46 24 06 48 51 07 00 [±]	New England

No.	Date	Inst.	Phase	G.M.C.T.	Remarks
49.	Dec. 28		e _E e _{NE} e _N F lost in record change	16h56m00s 17 02 20 17 05 01	Distant
50.	Dec. 30		i _E i _E F	20 31 57 20 32 00 32 20	Blast?

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