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 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.

Cape Girardeau Bulletin for 1939 5
Station resumed operation September 1, 1939

No.	Date	Inst	Phase	G.M.C.T.	Remarks
19	Sept. 8	W-A	iP_{NE}	$12^h15^m27^s$	Epicenter 53°.7 N. 175°.8 E
		W-A	ipP_{NE}	12 15 34	$H = 12^h05^m07^s$. h = 50 km.
		W-A	i_N	12 15 46	$\Delta_{S-P} = 63°.5$
		W-A	$iPcP_N$	12 15 58	$\Delta_{meas.} - 63°.4$
		W-A	iS_{NE}	12 24 03	
		W-A	i_N	12 25 22	
		W-A	eL_N	12 35	
		W-A	F	14 00	
20	Sept. 21	W-A	$e(P)_N$	$12^h52^m10^s$	Character indistinct.
		W-A	e_N	12 52 37	
		W-A	e_N	12 54 18	
		W-A	e_N	13 03 26	
		W-A	eL_N	13 05	
21	Sept. 22	W-A	e_{NE}	$00^h59^m03^s$	
		W-A	eL_N	01 16	
22	Sept. 28	W-A	iP_N	$15^h03^m21^s$	Probably deep surface wave absent.
		W-A	iP_E	15 03 22	$\Delta_{S-P} = 22°.2$
		W-A	ipP_N	15 03 30	$H = 14^h50^m24^s$
		W-A	iPR_{1N}	15 03 52	U.S.C.G.S. gives 14°.5 N.
		W-A	i_E	15 05 40	89°.0 W.
		W-A	iS_{NE}	15 07 24	
		W-A	isS_E	15 07 42	
		W-A	iSR_{2N}	15 08 14	
		W-A	i_E	15 08 59	
		W-A	F	15 17	
23	Oct. 8	W-A	ePE	$22^h28^m49^s$	
		W-A	e_E	22 33 39	
		W-A	eL_E	22 35 31	
		W-A	F	22 40±	
24	Oct. 7	W-A	e_N	$21^h05^m42^s$	
		W-A	e_N	21 05 53	
			Records changed at 21^h04^m		

No.	Date	Inst	Phase	G. M. C. T.	Remarks
25	Oct 8	W–A	iP_{NE}	$00^h01^m09^s$	Deep. Probably off the Pacific coast of Peru.
		W–A	i_N	00 01 11	
		W–A	ipP_N	00 01 15	
		W–A	i_E	00 01 35	
		W–A	i_N	00 01 37	
		W–A	iS_{NE}	00 09 02	
		W–A	e_N	00 09±50	
		W–A	F	00 11±	
26	Oct.10	W–A	eP_E	$18^h45^m06^s$	Epicenter 41°2 N. 143°4 E $H = 18^h32^m12^s$ $\Delta P-H = 89°0$
		W–A	e_N	18 45 09	
		W–A	e_N	18 45 40	
		W–A	e_N	18 47 10	
		W–A	$eSKS_E$	18 55 24	
		W–A	eS_E	18 55 47	
		W–A	F	20 05±	
27	Oct.19	W–A	eP_{NE}	$11^h57^m58^s$	Epicenter 47°6 N. 70°0 W. $H = 11^h53^m58^s$ $\Delta iP-H = 17°7$ $\Delta S-iP = 17°8$
		W–A	iP_{NE}	11 58 01	
		W–A	e_{NE}	12 00 06	
		W–A	i_{NE}	12 00 47	
		W–A	e_{NE}	12 01 07	
		W–A	iS_{NE}	12 01 27	
		W–A	iL_{NE}	12 01 56	
			F		
28	Oct.22	W–A	iP_{NE}	$11^h50^m40^s$	
		W–A	i_N	11 50 42	
		W–A	e_N	11 51 09	
		W–A	(eN)	11 58 44	
		W–A	F	12 00±	
29	Oct 27	W–A	i_N	$01^h45^m31^s$	
		W–A	i_{NE}	01 45 41	
		W–A	F	01 50±	

Minor Seismic Activity:
Sept. 25 16^h15^m to 16^h45^m

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

John Harty
Director of Seismological Station
State Teachers College

Records read by
R. R. Heinrich
St. Louis University

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Bulletin for 1939

No.	Date	Inst	Phase	G.M.C.T.	Remarks
30	Nov. 13	W-A	iP_{NE}	$7^h51^m\ 8^s$	47°.7 N. 123°.4 W
		W-A	ipP_{NE}	7 51 46	$\Delta_{P-H} = 26°.5$
		W-A	i_{NE}	7 51 59	$H = 07^h45^m50^s$
		W-A	iS_E	7 56 14	h about 50 km.
		W-A	isS_E	7 56 55	Felt in Tacoma, Olympia,
		W-A	i_E	7 57 28	and Seattle, Washington.
		W-A	i_{NE}	7 59 54	
		W-A	F	8 15±	
31	Nov. 21	W-A	e_N	$11^h14^m15^s$	Epicenter by U.S.C.G.S.
		W-A	e_N	11 14 20	10°.0 N., 30°.0 E.
		W-A	$eSKP_N$	11 18 14	$\Delta_{SKP-H} = 125°.2$
		W-A	$isSKP_N$	11 19 36	$H = 10^h56^m49^s$
		W-A	i_N	11 19 46	h = 200+ km.
		W-A	eS_{NE}	11 26 15	
		W-A	i_{NE}	11 28 59	
		W-A	F	11 40±	
32	Nov. 23	W-A	iP^*_{NE}	$15^h15^m10.4^s$	Epicenter 38°.13' N.
		W-A	iS^*_E	15 15 21.8	90°04' W.
		W-A	i_E	15 15 24.5	Δ_{P-H} = 113 Km.
		-			$H = 15^h14^m52.5^s$. Felt in Illinois and neighboring states. Intensity VI (Modified Mercalli) near epicenter
33	Dec. 5	W-A	iP_E	$8^h35^m14^s$	Epicenter 13°.5 N, 90°.9 W.
		W-A	ipP_E	8 35 28	$\Delta_{P-H} = 23°.6$
		W-A	i_E	8 36 49	$H = 8^h30^m10^s$
		W-A	eS_E	8 39 25	h = 75+ km.
		W-A	iS_N	8 39 25	
		W-A	iS_E	8 39 29	
		W-A	isS_E	8 39 53	
		W-A	i_E	8 41 15	
		W-A	F	9 15±	
34	Dec. 12	W-A	iP_N	$02^h54^m51^s$	Epicenter near 16°.0 N.
		W-A	iP_E	02 54 52	94°.0 W Deep
		W-A	ipP_E	02 54 55	$\Delta_{S-P} = 20°.4$
		W-A	iS_{NE}	02 58 38	$H = 2^h50^m13^s$
		W-A	F	04 00±	

No.	Date	Inst	Phase	G.M.C.T.	Remarks
35	Dec. 16	W-A	iP_N	$10^h58^m56^s$	Epicenter 45°.7 N., 145°.3 E.
		W-A	ipP_N	10 59 12	No surface waves.
		W-A	$eSKS_E$	11 09 16	Depth 80+ kms.
		W-A	$eSKS_N$	11 09 18	$H = 10^h46^m35^s$
		W-A	eS_{NE}	11 09 42	$\Delta P-H = 84°.1$
			F	11 12	
36	Dec. 18	W-A	iP^*_N	$18^h45^m31^s$	Local in New Madrid area.
		W-A	iS^*_N	18 45 44	$\Delta S^*-P^* = 1°.0$
		W-A	F	18 46 22	Δ =69 miles.
					(Time uncertain)

Time clock not in operation after December 20, 1939. Strong earthquake recorded on December 21 and 27.

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