SAINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of January, 1945

No.	Date	Sta	Phase	Inst.	h m s	Remarks
1	Jan. 1	S.L.	iPZ	M.S.	01 27 45	Epicentral Region:
			iZ	M.S.	01 28 55	72°5 N., 68° W.
			iZ	M.S.	01 29 18	H = $01^h20.8^m$
			iZ	M.S.	01 29 25	Δ_{P-H} = 35°2
			iSN	S.	01 33 22	Δ_{meas} = 35°2
			iSE	S.	01 33 32	
			iN	S.	01 36 04	
			iN	S.	01 36 50	
			iN	S.	01 39 33	
			F	S.	02.9	
		Fl.	ePZ	G.W.	01 27 47	Δ_{P-H} = 35°0
			iPE	G.W.	01 27 43	Δ_{meas} = 35°1
			eSE	G.W.	01 33 17	
			iSE	G.W.	01 33 26	
			F	G.W.	Lost	
2	Jan. 2	S.L.	ePZ	M.S.	19 45 42	Tacubaya gives:
			iZ	M.S.	19 46 12	Probable Epicenter
			e(S)N	M.S.	19 50 26	14° 26'N., 88° 11'W.
			F	M.S.	20.3	H = $19^h40^m10^s$
		Fl	eE	G.W.	19 50 53	
3	Jan. 5	S.L.	eSE	S.	06 33 03	P phases masked
			eE	S.	06 36 37	by microseisms
			eE	S.	06 44.4	
			F	S.	Lost	
		Fl.	eSE	G.W.	06 33 07	
			eE	G.W.	06 36 37	
			F	G.W.	Lost	
4	Jan. 5	S.L.	eN	S.	08 13 55	
5	Jan. 5	S.L.	iPZ	M.S.	11 09 17	Region: 4° S., 106°W.
			eSE	S.	11 16 01	H = $11^h01.0^m$
			e(L)E	S.	11 19.4	
			F	S.	11.9	
6	Jan. 5	S.L.	iPZ	M.S.	19 34 23	
7	Jan. 5	S.L.	e(P)Z	M.S.	20 53 16	Weak
			F	S.	21.5	

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8	Jan. 6	S.L.	e(P)Z	M.S.	09 45 52	Normal.
			eZ	M.S.	09 46 08	U.S.C.G.S. gives:
			eSN	S.	09 53 40	Region: 12° S., 110° W.
			eN	S.	10 03 --	
			F	S.	10.8	
		Fl.	eSE	G.W.	09 53 39	
			F	G.W.	Lost	
9	Jan. 7	S.L.	eSE	S.	04 34 01	P phases masked by microseisms.
			eE	S.	04 37 30	
			F	S.	Lost	
		Fl.	eSE	G.W.	04 34 04	
			F	G.W.	Lost	
10	Jan. 8	S.L.	eLN	S.	22 38 21	Felt in San Francisco.
		Fl.	eLN	G.W.	22 38.8	
11	Jan. 9	Fl.	e(M)N	G.W.	12 29.5	
			F	G.W.	Lost	
12	Jan. 9	S.L.	iP'Z	M.S.	21 47 45	Very distant.
			iZ	M.S.	21 48 11	No surface waves.
		Fl.	iP'Z	G.W.	21 47 45	
13	Jan. 11	S.L.	e(P)Z	M.S.	03 14 13	Weak. Epicenter by Tacubaya: 16° 14'N., 99° 33'W.
14	Jan. 12	S.L.	ePZ	M.S.	18 51 48	Epicenter:
			iZ	M.S.	18 51 56	35°.0 N., 137°.9 E.
			ePR$_1$Z	M.S.	18 55 39	H = 18^{h}38^{m}30^s
			e(SKS)N	S.	19 02 26	ΔP-H = 94°.2
			eSN	S.	19 03 03	Δ_{meas} = 94°.2
			ePSE	S.	19 04 25	
			eSR$_1$E	S.	19 09 37	
			eLN	S.	19 21.8	
			F	S.	Lost	
		Fl.	ePZ	G.W.	18 51 48	
			iZ	G.W.	18 51 55	
			iPR$_1$Z	G.W.	18 55 42	
			e(SKS)E	G.W.	19 02 26	
			iSE	G.W.	19 03 10	
			eSR$_1$E	G.W.	19 09 31	
			e(L)E	G.W.	19 21.5	
			F	G.W.	21.4	
15	Jan. 12	S.L.	ePZ	M.S.	21 13 55	
			eLN	S.	21 20.5	
			F	S.	21.5	

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16	Jan. 12	S.L.	iPZ	M.S.	22 04 29	Epicenter: 16°0 N., 93°3 W.
			ipPZ	M.S.	22 04 50	h = 100± km.
			eSN	S.	22 08 32	i = 21h59m34s
			eSR$_1$N	S.	22 09 13	ΔP-H = 22°7
			eLE	S.	22 10.8	Δ_{meas} = 22°7
		Fl.	iPZ	G.W.	22 04 32	ΔP-H = 23°1
			epP	G.W.	22 04 51	Δ_{meas} = 22°8
			eE	G.W.	22 08 41	
			eE	G.W.	22 09 03	
			F	G.W.	22.4	
17	Jan. 15	S.L.	iP*N	W.A.	01 04 49.9	Felt in Farmington,Mo.
			S*E	W.A.	01 05 00.9	Epicenter: 37° 48' N.,
			S*N	W.A.	01 05 01.1	90° 08' W.
			LN	W.A.	01 05 06.3	H = 01h04m34s6
						ΔP*-H = 57°7 miles
						Δ_{meas} = 58°4 miles
		Fl.	iP*N	W.A.	01 04 53.4	
			iN	W.A.	01 04 53.8	ΔP*-H = 70.13 miles
			iS*E	W.A.	01 05 06.4	Δ_{meas} = 70 miles
			iS*N	W.A.	01 05 07.1	
			eN	W.A.	01 05 09.4	
			iE	W.A.	01 05 10.2	
			iE	W.A.	01 05 11.1	
		C.G.	eS*E	W.A.	01 04 56.0	ΔS*-H = 47 miles
						Δ_{meas} = 46.86 miles
18	Jan. 16	Fl.	i(P)E	G.W.	13 54 01	Japan?
			eE	G.W.	14 01 23	
			(F)	G.W.	16.4	
19	Jan. 17	S.L.	ePZ	M.S.	04 11 03	South America
			ipPZ	M.S.	04 11 18	
			eN	S.	04 21 37	
		Fl.	iPZ	G.W.	04 11 05	
			ipPZ	G.W.	04 11 21	
20	Jan. 17	S.L.	ePZ	M.S.	10 17 58	
			eLE	S.	10 30.5	
21	Jan. 17	S.L.	ePZ	M.S.	11 03 45	
			eLE	S.	11 16.4	
22	Jan. 17	S.L.	e(P)Z	M.S.	15 21 05	

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No.	Date	Sta	Phase	Inst.	h m s	Remarks
23	Jan. 18	S.L.	ePZ	M.S.	03 20 34	Atlantic Ocean
			eZ	M.S.	03 22 14	U.S.C.G.S. gives:
			eSE	S.	03 26 50	57° N., 34° W.
			eLE	S.	03 32.3	
			F	S.	Lost	
		Fl.	eZ	G.W.	03 22 12	
			eSE	G.W.	03 26 44	
			eLE	G.W.	03 32.8	
24	Jan. 18	S.L.	iPZ	M.S.	03 53 02	U.S.C.G.S. gives
			eSN	M.S.	03 59 15	57° N., 34° W.
			eLN	M.S.	04 05.4	
			F	M.S.	Lost	
		Fl.	eLE	M.S.	04 05.5	
25	Jan. 18	S.L.	iPZ	M.S.	04 06 26	Atlantic
			e(L)E	M.S.	04 19.4	
			F	M.S.	Lost	
26	Jan. 18	S.L.	iPZ	M.S.	18 11 07	Tacubaya gives:
			eZ	M.S.	18 11 20	17° 42' N., 94° 07' W.
			iZ	M.S.	18 11 35	
			iSE	M.S.	18 15 05	
			iE	M.S.	18 15 23	
			F	M.S.	18.7	
		Fl.	iPZ	G.W.	18 11 07	
			eSE	G.W.	18 15 05	
			eE	G.W.	18 15 25	
			F	G.W.	Lost	
27	Jan. 22	S.L.	ePZ	M.S.	07 53 21	Epicenteral Region:
			iPZ	M.S.	07 53 26	20°0 N., 70°6 W.
			eSE	S.	07 57 59	H = 07 47.9
			iSN	S.	07 58 06	
			eLE	S.	08 00.5	
			F	S.	09.1	
		Fl.	eSE	G.W.	07 57 57	Microseisms bad.
			eLE	G.W.	08 00.2	
			F	G.W.	08.8	
28	Jan. 23	S.L.	iZ	M.S.	23 56 25	P phase uncertain

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
29	Jan. 25	S.L.	iPZ	M.S.	00 41 10	U.S.C.G.S. gives:
			iZ	M.S.	00 41 28	66° N., 173° W.
			eSR_1N	S.	00 52 10	
			eSR_1N	S.	00 52 32	
			LN	S.	00 59.1	
			F	S.	01.5	
		Fl.	ePN	W.A.	00 41 09	
			eSR_1N	G.W.	00 52 13	
			eLE	G.W.	00 58.6	
			F	G.W.	01.6	
30	Jan. 26	S.L.	eZ	M.S.	06 30 27	
			eZ	M.S.	06 34 07	Distant?

Minor Seismic Activity

Date	Station	from G.M.T. h m	to h m	Remarks
January 2	S.L.	05 57	06 10	
6	S.L.	21.6	22.7	Also Fl.
11	S.L.	03.0	03.7	
13	Fl.	09.32	10.3	
15	S.L.	18.3	18.8	
20	S.L.	16 52	17 02	Microseisms strong

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31	February 1	S.L.	eE	S.	11 01 10	Probably deep.
			eE	S.	11 02 10	U.S.C.G.S. gives
			eE	S.	11 04 55	22° S., 169° E.
			eE	S.	11 11 04	
			eE	S.	11 15 11	
			eE	S.	11 18 18	
			e(L)E	S.	11 28 23	
32	Feb. 1	S.L.	iE	S.	12 38 59	Same as #31
			eE	S.	12 41 43	
			eE	S.	12 42 40	
			eE	S.	12 48.6	
			eE	S.	12 51 59	
			e(L)E	S.	13 06 15	
			F	S.	15.0	
33	Feb. 2	S.L.	iPZ	M.S.	02 10 13	Epicentral Region
			eE	S.	02 19.2	60° N., 147°5 W.
			eLN	S.	02 25.0	
			F	S.	02.6	
34	Feb. 2	S.L.	ePZ	M.S.	2145 22	Ecuador?
			iZ	M.S.	21 45 27	
			eE	S.	21 50 20	
35	Feb. 2	S.L.	iPZ	M.S.	23 35 24	Region: 1/2°N., 80° W.
			iZ	M.S.	23 35 28	Ecuador
			iZ	M.S.	23 35 33	
			iSE	S.	23 41 25	
			eE	S.	23 44 20	
		Fl.	iZ	G.W.	23 35 33	
			iSE	G.W.	23 41 27	
			eE	G.W.	23 44 23	
			F	G.W.	00.3	
36	Feb. 5	S.L.	iPZ	M.S.	08 09 36	Colombia
37	Feb. 6	S.L.	ePZ	M.S.	19 13 14	Ecuador?
			eZ	M.S.	19 13 21	
			iZ	M.S.	19 13 27	
			iZ	M.S.	19 13 32	
			iSE	S.	19 19 15	
			e(SE$_1$)E	S.	19 22 07	
			F	S.	20.3	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
37	Feb. 6 (Con't.)	Fl.	iSE	G.W.	19 19 18	
			eE	G.W.	19 20 13	
			e(SR_1)E	G.W.	19 22 10	
			eE	G.W.	19 23 32	
			F	G.W.	20.2	
38	Feb. 6	S.L.	ePZ	M.S.	23 31 16	
39	Feb. 7	S.L.	eLE	S.	00 37.1	
40	Feb. 10	S.L.	ePZ	M.S.	05 10 34	Epicentral Region: 42°3 N., 140°0 E. H = $0^h 58^m 04^s$ Depth of Focus: ±120 km.
			iPZ	M.S.	05 10 37	
			iZ	M.S.	05 11 00	
			iZ	M.S.	05 12 48	
			iPR_1Z	M.S.	05 14 02	
			eZ	M.S.	05 14 14	
			iZ	M.S.	05 14 56	
			iSN	S.	05 21 00	
			eN	S.	05 21 32	
			e(SR_1)N	S.	05 26 22	
			iN	S.	05 32 39	
			F	S.	09.3	
		Fl.	iPZ	G.W.	05 10 37	
			iZ	G.W.	05 14 00	
			iSN	G.W.	05 20 58	
			iSR_1N	G.W.	05 27 05	
			iN	G.W.	05 31 45	
			F	G.W.	09.4	
		C.G.	eSE	W.A.	05 21.2	
41	Feb. 11	S.L.	ePZ	M.S.	01 33 41	No surface waves
			iZ	M.S.	01 33 54	
42	Feb. 11	S.L.	iPZ	M.S.	03 49 19	Weak.
43	Feb. 12	S.L.	iPZ	M.S.	16 36 08	Region: 31° S., 71°5 W. H = 16 24.9 Depth of Focus ±75 km.
			ipPZ	M.S.	16 36 22	
			eSE	S.	16 45 20	
			esSE	S.	16 45 46	
		Fl.	ePZ	G.W.	16 36 08	
			epPZ	G.W.	16 36 23	
			iSE	G.W.	16 45 25	
			esSE	G.W.	16 45 49	

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No.	Date	Sta	Phase	Inst	h m s	Remarks
44	Feb. 13	S.L.	(eP)Z	M.S.	11 34 58	Atlantic
			eZ	M.S.	11 35 01	S.W. of Azores
			eSN	S.	11 41 16	H = $11^h27.2^m$
			eSR2N	S.	11 44 17	
			F	S.	12.5	
		Fl.	eSN	G.W.	11 41 18	
			eSR2N	G.W.	11 44 20	
			F	G.W.	lost changing records	
45	Feb. 13	S.L.	eN	S.	13 42 46	Surface waves very sharp
			eLN	S.	13 44 59	
			F	S.	14 00	
		Fl.	eLN	G.W.	13 44 58	
			F	G.W.	14.0	
46	Feb. 14	S.L.	ePZ	M.S.	03 05 40	U.S.C.G.S. gives:
			iZ	M.S.	03 05 44	44°40'N., 115°04' W.
			eZ	M.S.	03 08 11	
			e	S.	03 08 49	
			eL	S.	03 11 22	
			F	S.	03.5	
		Fl.	ePZ	G.W.	03 05 37	
			eLN	G.W.	03 10.8	
			F	G.W.	03.4	
47	Feb. 17	S.L.	ePZ	M.S.	22 48 30	Surface waves small.
			iZ	M.S.	22 48 46	
			eE	S.	22 59 05	
			F	S.	23.8	
		Fl.	eE	G.W.	22 59 05	
			eE	G.W.	22 59 33	
			F	G.W.	23.4	
48	Feb. 18	S.L.	iPZ	M.S.	06 52 54	Epicentral Region:
			iZ	M.S.	06 52 57	8° N., 82°5 W.
			eSE	S.	06 58 09	H = $06^h46^m30^s$
			eE	S.	07 00 --	Δ_{meas} = 31°3
			F	S.	07.8	
		Fl.	iPZ	G.W.	06 52 57	
			eE	G.W.	06 58 12	
			eLE	G.W.	07 00 --	
			F	G.W.	07.5	

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49	Feb. 18	S.L.	ePZ	M.S.	10 20 50	Epicentral Region:
			iZ	M.S.	10 20 58	42°0 N., 143°8 E.
			iZ	M.S.	10 21 10	H = $10^h08^m08^s$
			iZ	M.S.	10 21 30	ΔSR_1-H = 86°1
			iPR1Z	M.S.	10 24 24	$\Delta meas$ = 85°8
			e(S)E	S.	10 31 15	Probably deeper than
			iE	S.	10 31 26	normal
			eSR1E	S.	10 37 15	
			F	S.	13.4	
		Fl. -	iPZ	G.W.	10 20 48	ΔSR_1-H = 85°7
			iPR1Z	G.W.	10 24 23	$\Delta meas$ = 85°6
			e(S)E	G.W.	10 31 12	
			i(S)E	G.W.	10 31 15	
			eSR1E	G.W.	10 37 09	
			eLE	G.W.	10 48.0	
			F	G.W.	Lost	
50	Feb. 18	S.L.	eN	S.	13 36 18	South Pacific?
			F	S.	15.3	
		Fl.	eN	G.W.	13 36 19	
			e(L)E	G.W.	14 03.5	
			F	G.W.	15.1	
51	Feb. 18	S.L.	eLE	S.	23 42.4	
			F	S.	00.4	
52	Feb. 20	S.L.	e(L)N	S.	12 17.6	
53	Feb. 20	S.L.	ePZ	M.S.	15 49 00	
			iPZ	M.S.	15 49 02	
			eN	S.	15 53 30	
			F	S.	16.5	
		Fl.	iPZ	G.W.	15 48 57	
			eN	G.W.	15 53 33	
54	Feb. 20	S.L.	eE	S.	17 33 07	
			e(L)E	S.	17 38.7	
			F	S.	17.9	
		Fl.	e(L)E	G.W.	17 39 --	
55	Feb. 23	S.L.	eZ	M.S.	02 10 45	Weak
56	Feb. 24	S.L.	i(P)Z	M.S.	04 04 53	
57	Feb. 26	Fl.	eE	G.W.	15 53 18	
58	Feb. 26	Fl.	e(P)Z	G.W.	17 28 06	
			eLE	G.W.	17 36 24	

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59	Feb. 26	S.L.	ePZ	M.S.	22 28 05	Epicentral Region:
			ePR$_1$Z	M.S.	22 32 11	26° N., 144° E.
			eSKSE	S.	22 38 41	H = 22^{h}14^{m}30^s
			i(S)E	S.	22 39 50	ΔP-H = 97.6
			eE	S.	22 43 40	Δmeas = 97.9
			eSR$_1$E	S.	22 45 58	
			eSR$_2$E	S.	22 50 26	Probably deeper
			L	S.	22 56 --	than normal
			F	S.	01.5	
		Fl.	ePZ	G.W.	22 28 05	ΔP-H = 97?6
			iZ	G.W.	22 32 30	Δmeas = 97?7
			eSKSE	G.W.	22 38 39	
			eE	G.W.	22 40 34	
			eE	G.W.	22 42 52	
			eLE	G.W.	22 57.0	
			F	G.W.	01.1	
60	Feb. 27	S.L.	iPZ	M.S.	07 21 34	Epicentral Region:
			ipPZ	M.S.	07 22 19	15?3 N., 95?2 W.
			iSN	S.	07 25 53	Depth = 300±km
			i(sS)N	S.	07 27 06	H = 07^{h}16.8^m
			F	S.	08.1	ΔP-H = 23?8
						Δmeas = 23?8
		Fl.	iPZ	G.W.	07 21 34	ΔP-H = 23?8
			iSN	G.W.	07 25 55	Δmeas = 23?9
			e(sS)N	G.W.	07 27 14	
			F	G.W.	07.9	
61	Feb. 28	S.L.	iPZ	M.S.	13 02 17	

Minor Seismic Activity

Date	Station	From	To	Remarks
8	S.L.	00 41	01 25	
8	S.L.	14 24	16.6	Several shocks.
15	S.L.	00 22.5	01.1	
17	S.L.	19 36.5	20 12	
19	S.L.	09 53	10 17	
19	S.L.	15 48.5	16 17	
23	Fl	18 03	18 07	
28	S.L.	03 44	04 11	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
62	March 2	S.L.	e(P)Z eSN eL F	M.S. S. S. S.	10 52 20 11 02 56 11 17 -- 12.4	U.S.C.G.S. gives: 42° N., 36° E.
63	March 2	S.L.	eZ eE	M.S. W.A.	19 59 45 20 05 08	
64	March 5	S.L.	e(P)Z eN e(L)N F	M.S. S. S. S.	12 30 18 12 40 36 12 59 -- 13.9	Weak.
65	March 9	S.L.	ePZ	M.S.	08 50 40	
66	March 10	S.L.	e(P)Z	M.S.	01 01 52	Weak.
67	March 11	S.L.	iPZ eN eE F	M.S. S. S. S.	05 26 56 05 32 05 05 35 01 05.7	Small surface waves.
68	March 11	S.L.	iP'Z iZ iZ iPR$_1$Z e(SR$_1$)E F	M.S. M.S. M.S. M.S. S. S.	18 03 55 18 04 12 18 04 17 18 06 04 18 12.5 19.8	H = 17^{h}45.1^m South of Philippines. h = 100±km.
69	March 11	S.L.	iPZ ipPZ iZ iPR$_1$Z eSRSE iSN ePPSE eSR$_1$E eSR$_2$E (L) F	M.S. M.S. M.S. M.S. S. S. S. S. S. S. S.	21 50 51 21 51 11 21 51 33 21 54 26 22 01 20 22 01 50 22 03 15 22 08 20 22 12.3 22 18.0 24.8	Epicentral Region: 37°8 N., 141°7 E. H = 21^{h}38.0^m Depth of Focus: 100±km. Δ_{P-H} = 90°3 Δ_{meas} = 90°2
70	March 12	S.L.	iPZ	M.S.	10 34 40	
71	March 14	S.L. Fl.	iPZ eZ eSN iPN eSN	M.S. M.S. S. W.A. W.A.	01 49 40 01 50 16 01 53 37 01 49 36 01 53 34	Epicenter by Tacubaya: 15°24'N., 94°22'W. No surface waves. Time Uncertain

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
72	March 17-18	S.L.	iPZ	M.S.	00 04 37	Epicenter:
			eZ	M.S.	00 04 57	7°0 N., 78°1 W.
			ePR_1Z	M.S.	00 05 27	H = $23^h57^m53^s$
			iZ	M.S.	00 05 58	ΔP-H = 33°6
			eP_cPZ	M.S.	00 07 17	Δmeas = 33°6
			iSN	S.	00 09 58	Probably deeper than
			$e(SR_1)N$	S.	00 11 32	normal
			eLN	S.	00 14.3	
			F		Lost	
		Fl.	iPZ	G.W.	00 04 38	ΔP-H = 33°7
			$e(PR_1)Z$	G.W.	00 05 38	Δmeas = 33°8
			eZ	G.W.	00 07 00	
			eZ	G.W.	00 09 11	
			iSE	G.W.	00 10 01	
			$e(S_cP)E$	G.W.	00 11 06	
			eE	G.W.	00 13 23	
			eLE	G.W.	00 14 16	
		C.G.	ePN	W.A.	00 04 24	ΔP-H = 32°1
						Δmeas = 32°0
73	March 18	S.L.	eLE	S.	01 13	
74	March 18	S.L.	ePZ	M.S.	08 16 56	
			eLN	S.	08 53.5	
			F	S.	09.5	
		Fl.	eLE	G.W.	08 56	
			F	G.W.	09.4	
75	March 18	S.L.	iPZ	M.S.	19 03 09	Region:
			$i(pP)Z$	M.S.	19 03 24	56°5 N., 156° W.
			$e(PR_1)Z$	M.S.	19 04 56	H = $18^h54.7^m$
			iSE	S.	19 09 56	Probably deeper than
			eE	S.	19 10 10	normal
			eSR_1E	S.	19 13 02	
			eE	S.	19 13 39	
			eLE	S.	19 17 13	
			F	S.	20.5	
		Fl.	ePZ	G.W.	19 03 08	
			$e(pP)Z$	G.W.	19 03 23	
			$e(PR_1)Z$	G.W.	19 04 48	
			iSE	G.W.	19 09 54	
			eSR_1E	G.W.	19 13 00	
			eLE	G.W.	19 17.0	
			F	G.W.	20.3	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
76	Jan. 18	S.L.	iPZ	M.S.	23 26 23	Epicenter:
			iZ	M.S.	23 26 35	48°5 N., 29°1 W.
			eSN	S.	23 32 59	H = $23^h18^m12^s$
			eSE	S.	23 33 02	ΔP-H = 44°4
			e(SR_1)E	S.	23 36 23	Δmeas = 44°4
			eLE	S.	23 39 44	
			F	S.	00.3	
		Fl.	ePZ	G.W.	23 26 23	Δ_{P-H} = 44.4
			ePR_1Z	G.W.	23 28 07	Δmeas = 44.5
			eSE	G.W.	23 33 01	
			e(SR_1)E	G.W.	23 36 25	
			eLE	G.W.	23 40.5	
			F	G.W.	00.1	
77	March 19	S.L.	iPZ	M.S.	13 29 50	Weak
78	March 20	S.L.	ePZ	M.S.	08 11 48	U.S.C.G.S. gives:
			iPZ	M.S.	08 11 55	H = $07^h58^m53^s$
			iZ	M.S.	08 12 05	Epicentral Region:
			eSKSE	S.	08 22 17	36°5 N., 34° E.
			e(S)E	S.	08 22 49	
			eN	S.	08 24 30	
			e(L)E	S.	08 37.5	
			F	S.	09.7	
		Fl.	ePZ	G.W.	08 11 48	
			eSKSE	G.W.	08 22 12	
			e(S)E	G.W.	08 22 50	
			eE	G.W.	08 24 35	
			e(L)E	G.W.	08 39 --	
			F	G.W.	09.5	
79	March 20	S.L.	eMN	S.	22 06 40	
80	March 22	S.L.	iPZ	M.S.	04 34 35	Microseisms large
			iZ	M.S.	04 34 50	
81	March 23	S.L.	(e)Z	M.S.	01 07 14	
			eME	S.	01 26.4	
			F	S.	Lost	
82	March 23	S.L.	(eP')	M.S.	23 33 33	Region by U.S.C.G.S.
			eZ	M.S.	23 36 32	61° S., 155°5 E
			ePR_1E	S.	23 37 06	
			eE	S.	23 38 22	
			eE	S.	23 40 05	
			eE	S.	23 40 58	
			ePPSE	S.	23 48 08	
			eE	S.	23 49 24	
			eSR_1E	S.	23 54 14	
			eSR_2E	S.	23 58.5	
			F	S.	02.8	

(Continued on next page)

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
82 (Con't.)	March 23	Fl.	eZ	G.W.	23 36 56	
			iE	G.W.	23 40 58	
			eSPZ	G.W.	23 46 48	
			eZ	G.W.	23 49 22	
			eE	G.W.	23 51 45	
			eSR_1E	G.W.	23 54.7	
			eSR_2E	G.W.	23 58.7	
			F	G.W.	02.3	
83	March 24	S.L.	ePZ	M.S.	14 29 57	Epicentral Region:
			iZ	M.S.	14 30 16	14°0 N., 92°3 W.
			eSN	S.	14 34 27	H = $14^h24^m32^s$
			eN	S.	14 35 20	ΔP-H = 25°0
			F	S.	15.3	
		Fl.	ePN	W.A.	14 29(58)	ΔP-H = 25°1
			eSN	G.W.	14 34 32	
			F	G.W.	Lost	
84	March 24	S.L.	iPZ	M.S.	18 41 54	Weak.
85	March 28	S.L.	iP_1E	W.A.	01 46 09.2	H = $20^h45^m57.9^s$
			iP_1N	W.A.	01 46 08.2	Epicenter:
			iS_1E	W.A.	01 46 16.1	38°25'N., 90°55'W.
			iS_1N	W.A.	01 46 15.2	S_1-P_1 = 6.95 sec.
						P_1-H = 10.8 sec.
						S_1-H = 17.8 sec.
						Distance = 40.1 mi.
		Fl.	iP_1E	W.A.	20 46 09.1	
			iP_1N	W.A.	20 46 09.11	S_1-P_1 = 6.9 sec.
			iS_1E	W.A.	20 46 16	Distance = 40.07 mi.
			iS_1N	W.A.	20 46 16.11	
		C.G.	eS?E	W.A.	20 46 45.4	S_1-H = 47.8 sec.
			eS_1E	W.A.	20 46 46.3	Distance = 107.3 mi.
			iS_1N	W.A.	20 46 45.4	For details, see Trans., Am. Geo. Union, vol.26, no.III,pp.347-351, December, 1945.
86	March 31	Fl.	iPZ	G.W.	07 05 45	
			eE	G.W.	07 15 41	
			F	G.W.	08.3	
		S.L.	iZ	M.S.	07 05 58	Time Uncertain!
			eN	S.	07 15 37	
87	March 31	S.L.	eLE	S.	13 39.1	Time Uncertain!
88	March 31	Fl.	eLN	G.W.	19 02.2	
89	March 31	Fl.	eLN	G.W.	19 38 48	
			F	G.W.	19.8	
		S.L.	eLE	S.	19 38.0	Time Uncertain.

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Minor Seismic Activity

Date	Station	From h m	To h m	Remarks
March 1	Fl.	00 13	00 23	
1	Fl.	02 23	02 39	
7	S.L.	20 12	02 23	
18	S.L.	11 14	11 17	
28	Fl.	14 00	14 19	
31	S.L.	22.6	23.9	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
90	April 1	S.L.	ePZ	M.S.	23 49 04	Epicenter by Pasadena:
			eZ	M.S.	23 50 27	34°00' N., 120°01' W.
			eSE	S.	23 53 35	H = $23^h43^m42^s$.
			eLN	S.	23 56 27	ΔP-H = 24°7
			M	S.	23 58.2	Δmeas = 24°7
			F	S.	00.6	
		Fl.	ePZ	G.W.	23 49 06	ΔP-H = 24°9
			eSE	G.W.	23 53 31	Δmeas = 24°6
			eLZ	G.W.	23 56 29	
			ME	G.W.	23 58.1	
			F		00.7	
91	April 6	S.L.	ePZ	M.S.	18 37 38	Felt at Cucuta, Colombia
			iPZ	M.S.	18 37 39	
			iZ	M.S.	18 37 45	
			eSE	S.	18 43 02	
			e(L)E	S.	18 45 36	
			F		19 18 --	
92	April 7	S.L.	e(P)Z	M.S.	21 39 34	Weak.
93	April 8	S.L.	eLE	S.	01 48 --	
			F	S.	02.6	
94	April 10	S.L.	iPZ	M.S.	01 34 48	Japan.
			ipPZ	M.S.	01 35 01	H = 01^h22^m2
			iZ	M.S.	01 36 44	Depth: 50 + km.
			e(S)E	S.	01 45 09	
			eSE	S.	01 45 19	
			e(sS)E	S.	01 45 44	
			eSR_1E	S.	01 51 02	
			$esSR_1E$	S.	01 51 31	
			eLE	S.	01 59 --	
			F	S.	03.2	
		Fl.	iPZ	G.W.	01 34 48	
			epPZ	G.W.	01 35 00	
			ePR_1Z	G.W.	01 38 11	
			e(S)E	G.W.	01 45 09	
			iSE	G.W.	01 45 19	
			eSR_1E	G.W.	01 51 04	
			eLE	G.W.	02 02 --	
			F	G.W.	02.9	
95	April 10	S.L.	eLE	S.	17 02 --	
			F	S.	18.0	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
96	April 11	S.L.	eE	S.	02 14.9	
			eLE	S.	02 19.1	
			F	S.	02 25 --	
		Fl.	eLE	G.W.	02 20.6	
			F	G.W.	Lost	
97	April 11	S.L.	eSE	S.	11 33 13	Pasadena gives: Roughly 42°N., 125°W. H = $11^h22^m.4$
			eLE	S.	11 37.5	
			F	S.	11.8	
		Fl.	eSE	G.W.	11 33 15	
			eLE	G.W.	11 37.8	
98	April 11	Fl.	eN	G.W.	16 06 33	
			e(L)N	G.W.	16 10 --	
			F	G.W.	Lost	
99	April 12	S.L.	iPZ	M.S.	00 28 20	West coast of Colombia?
			iZ	M.S.	00 28 29	
			e(S)N	S.	00 34.1	
		Fl.	ePZ	G.W.	00 28 20	
100	April 12	S.L.	ePZ	M.S.	14 57 40	
			eN	S.	15 01 54	
101	April 13	S.L.	eE	S.	21 36 19	Pasadena reports depth about 550 km. Tonga-Kermadec region.
		Fl.	eE	G.W.	21 36 21	
102	April 14	S.L.	eE	S.	07 15 45	
			eE	S.	07 16 32	
		Fl.	eN	G.W.	07 15 46	
			eN	G.W.	07 16 33	
103	April 15	S.L.	ePZ	M.S.	02 46 09	Epicenter: 57°0 N., 164°.3 E. H = $02^h35^m26^s$ Δ_{P-H} = 66°1 Δ_{meas} = 66°0
			iPZ	M.S.	02 46 14	
			i(PcP)Z	M.S.	02 46 38	
			iZ	M.S.	02 47 08	
			iPR_1Z	M.S.	02 48 39	
			$i(PR_2)Z$	M.S.	02 50 12	
			iPR_3Z	M.S.	02 50 58	
			eSE	S.	02 54 57	
			iN	S.	02 56 11	
			eSR_1E	S.	02 59 15	
			F	S.	Lost	
		C.G.	ePE	W.A.	02 46(21)	Δ_{P-H} = 67°9 Δ_{meas} = 67°3
			ePR_1E	W.A.	02 48 57	
			eSE	W,A.	02 55 14	
			F	W.A.	03.6	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
104	April 15	S.L.	iPZ	M.S.	03 52 13	Aftershock of # 103.
			iPZ	M.S.	03 52 17	
			eSE	W.A.	04 01 05	
			F	W.A.	04.7	
105	April 15	S.L.	iPZ	M.S.	19 55 35	Epicenter:
			iPR_1Z	M.S.	19 55 57	22°0 N., 107°2 W.
			iPR_2Z	M.S.	19 56 04	$H = 19^h50^m40^s$
			iZ	M.S.	19 56 35	$\Delta_{P-H} = 22°0$
			iSE	S.	19 59 38	$\Delta_{meas} = 22°0$
			iZ	M.S.	20 02 10	
			iME	S.	20 02 20	
			F	S.	21.7	
		Fl.	ePZ	G.W.	19 55 36	$\Delta_{P-H} = 22°1$
			iPR_1Z	G.W.	19 55 59	$\Delta_{meas} = 22°0$
			iSE	G.W.	19 59 37	
			iME	G.W.	20 02.3	
		C.G.	ePN	W.A.	19 55 35	$\Delta_{meas} = 21°3$
			ePR_1N	W.A.	19 55 57	
106	April 17	S.L.	e(P)Z	M.S.	08 24 54	
			eLE	S.	08 30.7	
			F	S.	08 38 --	
107	April 18	S.L.	e(L)E	S.	13 51.3	
			F		Lost	
		Fl.	e(L/E	G.W.	14 06 --	
108	April 19	S.L.	(iP)Z	M.S.	04 05 23	
109	April 19	S.L.	eE	S.	13 21 52	Region:
			eSKSE	S.	13 29 14	19° S., 168° N.
			ePSE	S.	13 32 30	$H = 13^h04^m0$
			eSR_1N	S.	13 38 30	Possibly deeper than
			eSR_2E	S.	13 43 10	normal.
			F	S.	Lost.	
110	April 20	S.L.	eE	S.	22 58 53	
			eN	S.	23 00 09	
			eLN	S.	23 20 --	
			F	S.	00.7	
		Fl.	eLN	G.W.	23 20.5	
			F	G.W.	00.4	
111	April 21	S.L.	eLN	S.	05 02.9	
			F	S.	05.2	
		Fl.	eLN	G.W.	05 03.5	
			F	G.W.	05.2	

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112	April 21	S.L.	iPZ	M.S.	17 19 13	Tentative epicenter:
			ipPZ	M.S.	17 19 30	18°0N., 100°7 E.
			isPE	S.	17 19 42	H = $17^h14^m19^s$
			iSN	S.	17 23 10	h = 100±km.
			isSN	S.	17 23 38	Δ_{P-H} = 22°8
			iLE	S.	17 25 44	Δ_{meas} = 22°6
			F	S.	18.5	
		Fl.	iPN	G.W.	17 19 14	Δ_{P-H} = 22°7
			ipPN	G.W.	17 19 30	Δ_{meas} = 22°6
			iSN	G.W.	17 23 15	
			isSN	G.W.	17 23 47	
			eLN	G.W.	17 25.8	
			F		18.5	
		C.G.	iPN	W.A.	17 19 04	Δ_{P-H} = 21°7
			ipPN	W.A.	17 19 24	Δ_{meas} = 21°4
			eSN	W.A.	17 22 57	
			F	W.A.	17.6	
113	April 22	S.L.	iPZ	M.S.	09 50 29	Region:of: 31°N., 114°W.
			eSN	S.	09 54 26	H = $09^h45^m41^s$.
			eLE	S.	09 57 09	Δ_{P-H} = 21°3
			F	S.	11.9	Δ_{meas} = 21°3
		Fl.	ePE	G.W.	09 50 27	Δ_{P-H} = 21°2
			iPE	G.W.	09 50 28	Δ_{meas} = 21°2
			eSN	G.W.	09 54 36	
			iLN	G.W.	09 57 05	
			F	G.W.	10.7	
		C.G.	eLN	W.A.	09 57 12	Δ_{meas} = 21°4
			F	W.A.	10 04.0	
114	April 23	S.L.	iPZ	M.S.	05 50 34	Epicentral Region:
			ipPZ	M.S.	05 50 43	16°8 N., 94°5 W.
			eN	S.	05 54 52	H = $05^h45^m30^s$
			F	S.	Lost.	h = 50±km.
						Δ_{P-H} = 22°1
						Δ_{meas} = 22°1
		Fl.	ePN	W.A.	05 50 33	Δ_{P-H} = 22°7
						Δ_{meas} = 22°3
115	April 23	S.L.	eP'Z	M.S.	06 40 54	Epicentral Region:
			epP'Z	M.S.	06 41 33	4°3 S., 154°0 E.
			iPR_1Z	M.S.	06 41 44	H = $06^h22^m43^s$
			$ipPR_1Z$	M.S.	06 42 22	h = 200±km.
			eSKSE	S.	06 47 24	Δ_{PR_1-H} = 113°1
			esSKSE	S.	06 48 37	Δ_{meas} = 113°1
			eLE	S.	07.0	
			F	S.	09.2	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
115 (Con't.)	April 23	Fl.	epP'E	W.A.	06 41 39	$\Delta_{pP'-H} = 112°8$
			epPR$_1$E	G.W.	06 42 19	$\Delta_{meas} = 112°8$
			isSKSE	G.W.	06 48 35	
			eLE	G.W.	06 51 0	
			F		09.0	
116	April 24	S.L.	iPN	W.A.	06 16 27	
			eN	S.	06 19 21	
			e(L)N	S.	06 20.8	
			F		06.8	
		Fl.	ePN	W.A.	06 16 29	
			eE	G.W.	06 21 15	
			F	G.W.	06.6	
117	April 28	S.L.	iPZ	M.S.	15 50 46	Near Panama.
			e(S)E	S.	16 56 21	
			F		16.4	
		Fl.	e(S)E	G.W.	15 56 24	
			F	G.W.	16.2	
118	April 29	S.L.	ePZ	M.S.	20 21 30	Felt in Washington State according to Pasadena.
			ipPZ	M.S.	20 21 40	
			eSE	S.	20 26 04	
			eLE	S.	20 28 52	
			iE	S.	20 31 20	
			F		21.8	
		Fl.	iPZ	G.W.	20 21 34	
			iZ	G.W.	20 25 58	
			eE	G.W.	20 28 54	
			eLE	G.W.	20 29.0	
			iZ	G.W.	20 31.18	
			F		21.5	
119	April 29	S.L.	i(P)Z	M.S.	20 27 32	
120	April 29	S.L.	ePZ	M.S.	21 06 27	Region of: 11°N., 85°W. $H = 21^h00^m33^s$ $\Delta_{P-H} = 27°9$ $\Delta_{meas} = 27°9$
121	April 30	S.L.	iPZ	M.S.	11 26 12	Epicentral Region: 50°8N., 150°0 E. $H = 11^h15^m18^s$ $h = 500 \pm$ km. $\Delta_{P-H} = 76°3$ $\Delta_{meas} = 76°3$
			epPZ	M.S.	11 28 00	
			eSE	S.	11 35 14	
			e(sS)E	S.	11 38 26	
			F		12.3	
		Fl.	ePN	W.A.	11 26 11	$\Delta_{P-H} = 76°1$ $\Delta_{meas} = 76°1$
			eSE	G.W.	11 35 12	
			e(sS)E	G.W.	11 38 24	
			F		Lost	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
122	April 30	S.L.	eSKSE	S.	17 50 03	Region of:
			eSN	S.	17 51 12	22°S., 177°W.
			isSN	S.	17 54 54	H = $17^h27^m30^s$
			F	S.	20.2	h = 600±km.
						Δ_{S-H} = 101°3
						Δ_{meas} = 101°3
		Fl.	eSKSE	G.W.	17 50 00	Δ_{S-H} = 101°0
			eSE	G.W.	17 51 08	Δ_{meas} = 101°2
			esSN	G.W.	17 54 59	
			F		19.1	

Minor Seismic Activity

Date	Station	From h m s	To h m s	Remarks
April 22	Fl.	21 22	21 34	
24	S.L.	15 40	15 47	
	Fl.	15 41	15 49	
	S.L.	16 55	17 03	
	Fl.	16 56	17 01	
25	S.L.	04 14	06 45	
	Fl.	04 09	06 19	
27	S.L.	07 22	07 31	
29	S.L.	03 00	04 00	

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SEISMOLOGICAL BULLETIN

Seismological Bulletin for the month of May, 1945.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
123	May 1	S.L.	iPZ	M.S.	06 07 47	Region of: 21°S., 69°W.
			iZ	M.S.	06 07 50	H = $05^h57^m.7$
			epPZ	M.S.	06 08 13	h = 150±km.
			iPcPZ	M.S.	06 08 27	
			eN	S.	06 10 44	
			eSN	S.	06 16 04	
			iSN	S.	06 16 09	
			esSN	S.	06 16 47	
			eScSN	S.	06 17 32	
			eN	S.	06 18 10	
			eSR_1N	S.	06 20 21	
			F	S.	06.8	
		Fl.	iPZ	G.W.	06 07 47	
			epPZ	G.W.	06 08 16	
			ePcPZ	G.W.	06 08 30	
			eZ	G.W.	06 10 42	
			eSN	G.W.	06 16 06	
			esSE	G.W.	06 16 58	
			F	G.W.	06.7	
124	May 1	S.L.	ePZ	M.S.	08 04 50	Approximately:
			eZ	M.S.	08 04 53	55°N., 167°E.
			iZ	M.S.	08 04 59	H = $07^h54^m.2$
			eSN	S.	08 13 45	Possibly deeper than
			eE	S.	08 21 48	normal.
			F	S.	09.2	
125	May 1	S.L.	iPZ	M.S.	16 46 21	31°.8 S., 68°.5 W.
			ipPZ	M.S.	16 46 47	H = $16^h35^m07^s$
			isPZ	M.S.	16 46 59	h = 150±km.
			iSN	S.	16 55 35	Δ_{P-H} = 73°.6
			iN	S.	16 56 11	Δ_{meas} = 73°.6
			isSN	S.	16 56 25	Felt in San Juan,
			iN	S.	16 56 37	Argentina, according to
			eN	S.	16 59 46	La Plata.
			eSR_2E	S.	17 03.9	
			F	S.	17.5	
		Fl.	iPZ	G.W.	16 46 21	Δ_{P-H} = 73°.6
			iZ	G.W.	16 46 23	Δ_{meas} = 73°.7
			ipPZ	G.W.	16 46 50	
			iSN	G.W.	16 55 37	
			eN	G.W.	16 56 16	
			isSN	G.W.	16 56 27	
			eN	G.W.	16 56 43	
			F	G.W.	17.4	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
126	May 2	S.L.	ePnN	W.A.	10 22 49.2	Local Shock.
			eSnE	W.A.	10 23 16.9	$36^{\circ}27'$ N., $89^{\circ}45'$W.
			iE	W.A.	10 23 17.9	Felt in New Madrid and Marston, Missouri.
						H = $10^{h}22^{m}12^{s}.6$
		Fl.	eE	W.A.	10 22 52.9	
			eSnE	W.A.	10 23 21.4	
			iE	W.A.	10 23 22.9	
		C.G.	eP*N	W.A.	10 22 24.5	
			iS*E	W.A.	10 22 35.9	
127	May 2	S.L.	eZ	M.S.	18 09 29	Very indefinite.
			eZ	M.S.	18 11 39	South America?
			eZ	M.S.	18 12 15	
			eN	S.	18 14 28	
128	May 2	S.L.	iPZ	M.S.	19 53 17	Region of :
			eSE	S.	19 57 50	$41.^{\circ}5$ N., 123°W.
			eLE	S.	20 02 25	H = $19^{h}47^{m}.7$
			eME	S.	20 03 46	Reported felt in
			F	S.	20.2	Northern California.
129	May 5	S.L.	ePZ	M.S.	02 39 16	
130	May 5	S.L.	e(P)Z	M.S.	12 17 33	Weak.
131	May 5	S.L.	iPZ	M.S.	12 41 39	
			eZ	M.S.	12 41 54	
132	May 5	S.L.	eZ	M.S.	20 58 30	May not be seismic.
133	May 9	S.L.	eE	S.	03 52 08	General Region:
			eN	S.	03 52 28	8°S., 124°E.
			ePR$_1$E	S.	03 53 05	H = $03^{h}31^{m}.3$
			epPR$_1$N	S.	03 55 04	h = $550\pm$km.
			eSKSE	S.	03 55 59	Vertical not operating.
			eSKPE	S.	04 01 23	
			eSPE	S.	04 01 56	
			eSR$_1$E	S.	04 09 27	
			e(sSR$_1$)E	S.	04 13.3	
			F	S.	05.7	
		Fl.	eP'Z	G.W.	03 49 32	
			iP'Z	G.W.	03 49 34	
			iSKPZ	G.W.	03 52 15	
			epPR$_1$E	G.W.	03 55 04	
			eSKSE	G.W.	03 55 57	
			F	G.W.	05.3	
134	May 9	S.L.	iPZ	M.S.	22 37 49	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
135	May 10	S.L.	e(P)Z	M.S.	02 24 24	Indefinite.
			e(S)E	S.	02 30 44	
			e(SR_2)E	S.	02 34 03	
			F	S.	03.1	
136	May 10	S.L.	ePZ	M.S.	18 02 45	14°0 S., 75°4 W.
			ipPZ	M.S.	18 02 53	H = $17^h53^m26^s$
			iSN	S.	18 10 20	h = 50±km.
			isSN	S.	18 10 33	ΔP-H = 54°0
			iScSE	S.	18 12 31	Δ_{meas}= 54°6
			isScSE	S.	18 12 46	
			F	S.	Lost	
		Fl.	ePZ	G.W.	18 02 46	ΔP-H = 54°2
			ipPZ	G.W.	18 02 54	Δ_{meas} = 54°8
			eSE	G.W.	18 10 23	
			esSE	G.W.	18 10 34	
			eScSE	G.W.	18 12 33	
			esScSE	G.W.	18 12 45	
			F	G.W.	19.4	
137	May 10	S.L.	eZ	M.S.	18 37 31	May not be seismic.
			iZ	M.S.	18 37 56	
138	May 11	S.L.	ePZ	M.S.	22 04 26	
			e(S)E	S.	22 15 56	
			F	S.	22.5	
139	May 12	S.L.	ePZ	M.S.	07 38 03	Pasadena gives:
			eMN	S.	07 45 40	31°6 N., 115°6 W.
			F	S.	07 53.4	H = 07^h33^m0
						"Magnitude 5.2"
140	May 12	S.L.	e(P)Z	M.S.	13 50 47	May not be seismic.
141	May 13	S.L.	iPZ	M.S.	09 54 59	
142	May 13	Fl.	ePZ	G.W.	20 32 22	Region of:
			eSE	G.W.	20 36 17	24°N., 108°W.
			iSE	G.W.	20 36 24	H = 20^h27^m6
			eLE	G.W.	20 38 23	
			iE	G.W.	20 38 49	
			i(M)E	G.W.	20 39 05	
			F	G.W.	21.8	
143	May 15	S.L.	e(P)Z	M.S.	21 47 17	May not be seismic.
			iZ	M.S.	21 47 45	
144	May 16	S.L.	eN	S.	09 05 32	
			eN	S.	09 09 44	
			F	S.	09.7	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
145	May 17	S.L.	eMN	S.	15 20 02	Pasadena reports:
			F	S.	15.5	H = 15^h07^m1
						Minor damage at
						Hollister, California.
						36°51'N., 121°24'W.
146	May 18	S.L.	iPZ	M.S.	23 47 56	Deep. No Surface.
			eSE	S.	23 57 59	Epicentral Region:
			F	S.	24.7	44°4 N., 149°3 E.
						Assumed depth of Focus:
						100 km. H = $23^h35^m50^s$.
						ΔP-H = 81°7
						Δ_{meas} = 81°7
147	May 19	S.L.	ePZ	M.S.	08 00 57	16°1 N., 98°2 W.
			iPZ	M.S.	08 00 59	H = $07^h55^m56^s$
			ipPZ	M.S.	08 01 24	h = 100±km.
			iPR_2N	S.	08 01 48	ΔP-H = 23°3
			iPcPN	S.	08 04 20	Δ_{meas} = 23°3
			iSN	S.	08 05 18	
			ipSE	S.	08 05 44	
			isSE	S.	08 06 00	
			iSR_1N	S.	08 06 26	
			iSR_2N	S.	08 06 42	
			iScPE	S.	08 08 09	
			iScSE	S.	08 12 08	
			F	S.	10.1	
		Fl.	iPZ	G.W.	08 00 58	ΔP-H = 23°4
			ipPZ	G.W.	08 01 27	Δ_{meas} = 23°4
			iZ	G.W.	08 01 35	
			iPR_2Z	G.W.	08 01 52	
			$i(pPR_2)Z$	G.W.	08 02 23	
			iSN	G.W.	08 05 20	
			F	G.W.	10 -- --	
		C.G.	ePN	W.A.	08 00 46	ΔP-H = 22°3
			eSN	W.A.	08 05 05	Δ_{meas} = 22°1
			F	W.A.	08.4	
148	May 19	S.L.	iPZ	M.S.	15 12 56	40°2 N., 126°2 W.
			iSN	S.	15 17 39	H = $15^h07^m03^s$
			iSR_1N	S.	15 18 50	ΔP-H = 27°8
			iLN	S.	15 20 05	Δ_{meas} = 27°8
			F	S.	18.1	
		Fl.	iPZ	G.W.	15 12 54	ΔP-H = 27°6
			iSE	G.W.	15 17 38	Δ_{meas} = 27°6
			F	G.W.	18 -- --	
		C.G.	ePN	W.A.	15 13 10	ΔP-H = 29°4
			eSN	W.A.	15 17 58	Δ_{meas} = 28°6
			F	W.A.	15.7	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
149	May 20	S.L.	ePZ	M.S.	16 35 12	Epicenter near
			eSN	S.	16 39 12	24°N., 107°W.
			eLN	S.	16 41 17	H = $16^h30^m.3$
			eMN	S.	16 41 55	
			F	S.	17.1	
		Fl.	eSN	G.W.	16 39 11	
			eMN	G.W.	16 41 59	
			F	G.W.	17.1	
150	May 21	S.L.	ePZ	M.S.	21 30 42	South America.
151	May 23	S.L.	iPZ	M.S.	06 31 14	Deep? No surface.
152	May 23	S.L.	ePZ	M.S.	20 55 03	
			eZ	M.S.	20 55 06	
153	May 25	S.L.	ePZ	M.S.	07 29 14	
			eN	S.	07 30 10	
			e(S)N	S.	07 34 18	
			eN	S.	07 34 32	
			e(L)N	S.	07 39.3	
			F	S.	08.0	
154	May 28	S.L.	eE	S.	10 17 20	
			eLE	S.	10 30 --	
			F	S.	12.9	
155	May 29	S.L.	e(P')Z	M.S.	17 52 50	
			i(PR_1)Z	M.S.	17 54 20	
			e(PS)N	S.	18 04 11	
			eN	S.	18 13 29	
			F	S.	19.4	
156	May 31	S.L.	iPZ	M.S.	18 24 47	Northern Japan?
			ipPZ	M.S.	18 24 59	h = 60±km.
			eSE	S.	18 35 13	
			esSE	S.	18 35 35	
			eE	S.	18 41 13	
			F	S.	19.7	
		Fl.	eSE	G.W.	18 35 13	
			isSE	G.W.	18 35 37	
			F	G.W.	Lost	
157	May 31	S.L.	e(P)Z	M.S.	23 33(18)	Indefinite beginning.

Minor Seismic Activity

Date	Station	From h m	To h m
May 1	S.L.	23 52	24 23
3	S.L.	16 08	16 50
5	S.L.	20 38	20 59
15	S.L.	02 23	02 46
15	S.L.	06 12	06 38
16	S.L.	10 --	11 --
25	Fl.	20 --	24 --
26	Fl.	10 --	12+
27	S.L.	22 21	23 14

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
158	June 1	S.L.	iPZ	M.S.	15 23 05	51°.0 N., 170°.5 W.
			iZ	M.S.	15 23 13	H = $15^h13^m40^s$
			i(pP)Z	M.S.	15 23 26	h = 100±km.
			iSE	S.	15 30 41	ΔP-H = 55°.7
						Δ_{meas} = 55°.8
						Remaining phases lost.
		Fl.	ePZ	G.W.	15 23 02	ΔP-H = 55°.3
			iSE	G.W.	15 30 39	Δ_{meas} = 55°.7
			e(ScS)E	G.W.	15 32 53	
			eSR_1E	G.W.	15 35.0	
			eLE	G.W.	15 39 --	
			F	G.W.	Lost	
159	June 1	Fl.	ePE	W.A.	15 53 11	Aftershock of # 158.
			iSE	G.W.	16 00 47	
160	June 1	Fl.	e(L)E	W.A.	17 04 04	Felt at Helena, Montana,
			F	G.W.	17 15.8	according to Pasadena.
161	June 1	S.L.	ePZ	M.S.	22 34 07	Region: 7°N., 35°.5 W.
			eZ	M.S.	22 34 15	H = $22^h24^m15^s$.
			eSE	S.	22 42 12	
			eE	S.	22 43 57	
			eME	S.	22 52.3	
			F	S.	23.4	
		Fl.	eZ	G.W.	22 34 13	
			eSE	G.W.	22 42 11	
			F	G.W.	23.4	
162	June 2	S.L.	ePZ	M.S.	10 23 50	Region:
			eSN	S.	10 28 14	15°N., 97°W.
			F	S.	10.7	H = $10^h18^m.5$
163	June 3	S.L.	ePN	W.A.	13 11 51	8°.7 N., 82°.0 W.
			eN	W.A.	13 12 00	H = $13^h05^m39^s$
			eE	W.A.	13 16 42	h = 80±km.
			eSE	W.A.	13 16 55	ΔP-H = 30°.7
			F	W.A.	Lost	Δ_{meas} = 30°.8
						Felt strongly in
						Chiriqui Province, Panama.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
163 Con't.	June 3	Fl.	iPZ	G.W.	13 11 51	$\Delta_{P-H} = 30°.7$
			iPR_1Z	G.W.	13 12 52	$\Delta_{meas} = 30°.8$
			iSZ	G.W.	13 17 13	
			$i(SR_1)Z$	G.W.	13 17 55	
			$i(SR_2)Z$	G.W.	13 18 16	
			iZ	G.W.	13 18 43	
			i(L)Z	G.W.	13 19 03	
			F	G.W.	Lost	
		C.G.	ePE	W.A.	13 11 37	$\Delta_{P-H} = 29°.1$
			eSE	W.A.	13 16 46	$\Delta_{meas} = 29°.1$
			F	W.A.	13.7	
164	June 4	S.L.	e(P)Z	M.S.	05 03 54	
165	June 4	S.L.	eSKSN	S.	12 34 10	Region:
			eSKKSN	S.	12 35 06	$31°N.,\ 78°\ E.$
			eSN	S.	12 35 47	$H = 12^h09^m.2$
			ePSN	S.	12 37 26	
			i(PPS)N	S.	12 38 44	
			eSR_1N	S.	12 42 56	
			F	S.	Lost	
		Fl.	ePSZ	G.W.	12 37 32	
			e(PPS)Z	G.W.	12 38 42	
			MZ	G.W.	13 10.9	
			F	G.W.	Lost	
166	June 4	S.L.	iPZ	M.S.	15 59 51	Aftershock of # 163.
			eSN	S.	16 04 47	
			eN	S.	16 05 06	
			eSR_1E	S.	16 06 30	
			eE	S.	16 07 19	
			eLE	S.	16 07 41	
			F	S.	16.5	
		Fl.	e(S)E	G.W.	16 05 10	
			eE	G.W.	16 07 25	
			F	G.W.	16.5	
167	June 4	S.L.	ePZ	M.S.	16 09 47	
168	June 4	S.L.	ePZ	M.S.	16 14 53	
169	June 6	S.L.	eE	S.	01 18 27	
			eE	S.	01 25 49	
			F	S.	02.8	
170	June 6	S.L.	ePZ	M.S.	07 08 13	Epicentral Region:
			eSN	S.	07 14 46	$57°.5\ N.,\ 27°.8\ W.$
			eSR_1N	S.	07 17 28	$H = 07^h00^m12^s$
			eSR_2N	S.	07 18 05	Possibly slightly
			eMN	S.	07 22.5	deeper than normal.
			F	S.	08.0	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
170 Con't.	June 6	Fl.	ePZ eSN F	G.W. G.W. G.W.	07 08 15 07 14 45 07.9	
171	June 7	S.L.	eN	W.A.	09 13 48	Reported felt locally.
172	June 7	S.L.	e(SKS)N eSR1N eLN F	S. S. S. S.	12 13 17 12 20 17 12 33 19 13.7	South Pacific?
173	June 7	S.L.	e(P)Z	M.S.	20 08 34	
174	June 7	S.L.	iPZ ipPZ	M.S. M.S.	20 21 57 20 22 27	Deep.
175	June 8	S.L.	eLN F	M.S. M.S.	22 40 32 22.8	
176	June 10	S.L.	eN	W.A.	20 45 45	Local Quake? Time doubtful.
		Fl.	eN	W.A.	20 55 53	
		C.G.	eN	W.A.	20 55 24	
177	June 12	S.L.	eSE eN eN eN eN eN e(L)N F	S. S. S. S. S. S. S. S.	16 22 20 16 22 55 16 25 12 16 29 12 16 31 10 16 35 28 16 40.2 18 -- --	
		Fl.	eSE F	G.W. G.W.	16 22 20 18.0	
178	June 13	S.L.	ePZ	M.S.	14 12 14	Aftershock of # 163.
179	June 14	S.L.	e(P)Z eZ (M) F	M.S. M.S. S. S.	00 03 40 00 07 03 00 51 -- 01.7	
180	June 14	S.L.	e(P)Z	M.S.	01 07 59	Indefinite beginning.
181	June 14	S.L.	eE	W.A.	03 27.9	Local shock? Very weak.
		Fl.	eE	W.A.	03 27 17	
		C.G.	eN	W.A.	03 26 32	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
182	June 14	S.L.	ePZ	M.S.	03 36 07	Epicenter by Pasadena:
			eSN	S.	03 40 11	37°05' N., 117°30' W.
			eN	S.	03 42 24	H = 03h31m13s
			F	S.	03.9	"Magnitude = 5.0"
		Fl.	eSN	G.W.	03 40 16	
			eN	G.W.	03 42 14	
			F	G.W.	03.8	
183	June 14	S.L.	iPZ	M.S.	22 18 44	Deep? No surface.
184	June 14	S.L.	iN	W.A.	22 52 28	May not be seismic.
			eN	W.A.	22 52 48	
185	June 15	S.L.	ePZ	M.S.	04 27 37	Alaska?
			e(S)N	S.	04 34 16	
			L	S.	04 46.8	
			F	S.	05.0	
186	June 15	S.L.	ePZ	M.S.	17 50 41	
187	June 16	S.L.	iPZ	M.S.	20 03 01	B.C.I.S. gives:
			eSE	S.	20 09 39	50°N., 30°W.
			eLN	S.	20 16.4	H = 19h54m7
			F	S.	20.7	
		Fl.	eSE	G.W.	20 09 37	
			F	G.W.	20.6	
188	June 17	S.L.	iPZ	M.S.	16 48 05	Tacubaya gives:
			eSN	S.	16 52 20	18°12'N, 105°20'W.
			eLN	S.	16 55 06	
			eE	S.	16 56 02	
			iME	S.	16 57 41	
			F	S.	17.5	
		Fl.	ePE	W.A.	16 48 07	
			eSN	G.W.	16 52 23	
			e(L)N	G.W.	16 55 39	
			F	G.W.	17.4	
189	June 17	S.L.	iPZ	M.S.	22 54 24	Deep? No surface.
190	June 18	S.L.	ePZ	M.S.	04 56 24	Deep.
			eZ	M.S.	04 56 37	
191	June 18	S.L.	iPZ	M.S.	12 48 45	
			eE	S.	12 56 10	
			eE	S.	12 58 22	
			F	S.	13.1	
		Fl.	ePE	W.A.	12 48 45	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
192	June 19	S.L.	iPZ	M.S.	17 43 58	Deep.
			eZ	M.S.	17 44 05	No surface waves.
			eZ	M.S.	17 44 16	
193	June 19	S.L.	e(P)Z	M.S.	17 54 11	Region: 16°S., 71°W.
			iPZ	M.S.	17 54 14	H = $17^h44^m.4$
			ipPZ	M.S.	17 54 57	h = 200±km
			eSE	W.A.	18 02 16	
		Fl.	ePZ	G.W.	17 54 16	
			eE	G.W.	17 54 32	
			eE	G.W.	18 00 17	
			eSE	G.W.	18 02 20	
			eE	G.W.	18 03 11	
			F	G.W.	18.2	
194	June 20	S.L.	ePZ	M.S.	01 35 45	47°.7 N., 153°.5 E.
			iPZ	M.S.	01 35 47	H = $01^h23^m58^s$
			eZ	M.S.	01 36 16	Δ_{P-H} = 76°.7
			iSE	S.	01 45 38	Δ_{meas} = 76°.8
			eE	S.	01 49 06	
			eLE	S.	02 00.2	
			F	S.	04.2	
		Fl.	ePZ	G.W.	01 35 44	Δ_{P-H} = 76°.4
			iPZ	G.W.	01 35 45	Δ_{meas} = 76°.6
			eSE	G.W.	01 45 05	
			iSE	G.W.	01 45 07	
			F	G.W.	03.7	
195	June 20	S.L.	e(PR_1)Z	M.S.	09 08 56	Approximately:
			e(SKS)E	S.	09 14 39	5°S., 149°E.
			eSKKSE	S.	09 16 06	H = $08^h49^m.3$
			ePSE	S.	09 18 57	Felt in the Wewak-Wam
			eE	S.	09 19 21	area, New Guinea,
			e(SR_1)E	S.	09 24 46	according to Riverview.
			F	S.	11.4	
		Fl.	eZ	G.W.	09 09 47	
			ePSE	G.W.	09 19 18	
			eLE	G.W.	09 48 --	
			F	G.W.	11.2	
196	June 20	S.L.	e(L)E	S.	12 26 51	
			F	S.	13.2	
197	June 20	S.L.	ePZ	M.S.	17 47 07	Same Region as # 194.
			iZ	M.S.	17 47 19	H = $17^h35^m18^s$.
			iZ	M.S.	17 47 56	Possibly deeper than
			eSN	S.	17 56 59	normal.
			iSN	S.	17 57 02	
			e(SR_2)E	S.	18 05.3	
			F	S.	21.0	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
197 Con't.	June 20	Fl.	ePZ	G.W.	17 47 06	
			eZ	G.W.	17 47 33	
			iSE	G.W.	17 56 57	
			eME	G.W.	18 18 --	
			F	G.W.	20.1	
198	June 20	S.L.	ePZ	M.S.	20 10 47	Aftershock of # 197.
199	June 20	S.L.	e(P)Z	M.S.	20 32 01	Aftershock of # 197.
200	June 22	S.L.	ePZ	M.S.	01 18 47	Epicentral Region:
			eSE	S.	01 28 26	47°6 S., 98°5 W.
			e(L)E	S.	01 38.7	H = $01^h07^m10^s$.
			F	S.	02.2	Assumed h = 100 km.
						ΔP-H = 76°4
						Δ_{meas} = 76°5
		Fl.	ePZ	G.W.	01 18 47	ΔP-H = 76°4
			eSE	G.W.	01 28 28	Δ_{meas} = 76°6
			F	G.W.	02.1	
201	June 22	S.L.	iPZ	M.S.	09 30 57	45°0 N., 146°9 E.
			ipPZ	M.S.	09 31 17	H = $09^h18^m48^s$.
			iPcPZ	M.S.	09 31 28	h = 100±km.
			ipPcPZ	M.S.	09 31 46	ΔP-H = 82°1
			iPR$_1$Z	M.S.	09 34 10	Δ_{meas} = 82°0
			iSE	S.	09 41 05	
			iE	S.	09 41 09	
			iSKSE	S.	09 41 17	
			esSN	S.	09 41 46	
			iPSE	S.	09 41 55	
			iE	S.	09 42 00	
			iSR$_1$N	S.	09 46 31	
			eE	S.	09 53 10	
			eLN	S.	09 57 00	
			F	S.	12.0	
		Fl.	ePZ	G.W.	09 30 55	ΔP-H = 81°9
			iPZ	G.W.	09 30 56	Δ_{meas} = 81°9
			iPcPZ	G.W.	09 31 26	
			iPR$_1$Z	G.W.	09 34 11	
			iSE	G.W.	09 41 04	
			iPSE	G.W.	09 41 57	
			eSR$_1$N	G.W.	09 46 34	
			F	G.W.	11.5	
		C.G.	ePE	W.A.	09 31 04	ΔP-H = 83°5
			iPE	W.A.	09 31 06	Δ_{meas} = 83°3
			eSE	W.A.	09 41 16	
			eE	W.A.	09 42 08	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
202	June 22	S.L.	ePR$_1$Z	M.S.	18 19 39	33°7 N., 74.8 E.
			ePR$_2$N	S.	18 21 58	H = 18^{h}01^{m}02^s.
			iSKSN	S.	18 25 52	ΔPR$_1$-H = 107°1
			eSKKSN	S.	18 26 47	Δmeas = 106°9
			eSN	S.	18 27 16	
			ePSN	S.	18 29 00	
			iPPSN	S.	18 30 03	
			eE	S.	18 33 17	
			eSR$_1$E	S.	18 35 09	
			e(SR$_2$)E	S.	18 38.7	
			eN	S.	18 43.2	
			F	S.	20.9	
		Fl.	ePR$_1$Z	G.W.	18 19 37	ΔPR$_1$-H = 107°0
			eZ	G.W.	18 19 41	Δmeas = 106°8
			eSKSE	G.W.	18 25 52	
			e(SKKS)E	G.W.	18 26 36	
			eSN	G.W.	18 27 15	
			ePSN	G.W.	18 29 04	
			eN	G.W.	18 43.5	
			F	G.W.	20.6	
203	June 22	C.G.	eE	W.A.	01 48 02	Local?
204	June 23	S.L.	ePZ	M.S.	01 48 02	Weak.
205	June 23	Fl.	ePR$_1$Z	G.W.	20 43 54	Δ = about 100°
			e(SKKS)N	G.W.	20 51 19	
			eLN	G.W.	21 12 --	
			F	G.W.	22.0	
206	June 24	S.L.	iPZ	M.S.	20 09 31	Epicentral Region:
			ipPZ	M.S.	20 09 57	35°6 S., 70°5 W.
			iPcPZ	M.S.	20 10 08	H = 19^{h}58^{m}00^s.
			ePR$_1$Z	M.S.	20 12 22	h = 130 km.
			iSE	S.	20 19 03	ΔP-H = 76°0
			eN	S.	20 19 33	Δmeas = 76°6
			esSE	S.	20 19 44	
			ePSN	S.	20 20 08	
			e(SR$_1$)E	S.	20 23 50	
			eE	S.	20 25 08	
			e(SR$_2$)E	S.	20 26 37	
			e(L)E	S.	20 30.3	
			F	S.	21.4	
		C.G.	ePE	W.A.	20 09 25	ΔP-H = 75°0
			epPE	W.A.	20 09 48	Δmeas = 75°1
			eSE	W.A.	20 18 50	
			esSE	W.A.	20 19 29	
207	June 25	S.L.	e(PR$_1$)Z	M.S.	08 10 27	Initial phase very weak.
			e(S)E	S.	08 16 34	
			e(SR$_1$)E	S.	08 19 06	
			e(L)E	S.	08 22 30	
			F	S.	08.9	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
208	June 25	S.L.	eSE	S.	16 09 31	
			eE	S.	16 13 34	
			e(P)Z	M.S.	16 15 16 ---	Another shock?
			eLE	S.	16 23.5	
			F	S.	16.9	
209	June 25	S.L.	iPZ	M.S.	23 53 07	Epicentral Region:
			ipPZ	M.S.	23 53 26	48°0 N., 141°1 E.
			eSN	S.	24 03 54	H = $23^h40^m18^s$.
						h = 100±km.
						Δ_{P-H} = 90°0
						Δ_{meas} = 90°1
210	June 26	S.L.	eZ	M.S.	02 06 39	Pacific coast of Chile.
			eSE	S.	02 14 25	H = 01^h54^m8
			eE	S.	02 16 37	Initial phase indefinite
			F	S.	02.7	
211	June 26	S.L.	e(P)Z	M.S.	21 32 07	Indefinite beginning.
			e(L)E	S.	21 39.5	Near Panama.
			F	S.	21.8	
212	June 27	S.L.	ePZ	M.S.	13 13 04	27°3 N., 111°1 W.
			iPR_1Z	M.S.	13 13 20	H = $13^h08^m25^s$
			iPR_2E	S.	13 13 31	Δ_{P-H} = 20°5
			iSE	S.	13 16 59	Δ_{meas} = 20°8
			eLE	S.	13 18 27	Felt in Santa Rosalia,
			F	S.	17.0	Lower California.
		Fl.	ePE	W.A.	13 13 03	Δ_{P-H} = 20°4
			eSN	W.A.	13 16 54	Δ_{meas} = 20°7
			eLE	W.A.	13 18 24	
			F	G.W.	16+	
		C.G.	ePN	W.A.	13 13 01	Δ_{P-H} = 20°2
			eSE	W.A.	13 17 00	Δ_{meas} = 20°4
			e(L)N	W.A.	13 19 23	
			F	W.A.	14.2	
213	June 27	S.L.	ePZ	M.S.	18 12 54	Same region as # 212.
			iPZ	M.S.	18 12 56	
			eSE	S.	18 16 45	
			iSE	S.	18 16 48	
			eLN	S.	18 18 29	
			F	S.	Lost	
		Fl.	ePZ	G.W.	18 12 54	
			iSN	G.W.	18 16 48	
			iMN	G.W.	18 19 09	
			F	G.W.	Lost	
		C.G.	ePN	W.A.	18 12 51	
			eMN	W.A.	18 19 15	
			F	W.A.	18.6	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
214	June 27	S.L.	ePZ	M.S.	19 15 04	Aftershock of # 212.
			eSN	S.	19 18 51	
			eLE	S.	19 20 17	
			eME	S.	19 21 29	
			F	S.	Lost	
		C.G.	eME	W.A.	19 21 10	
			F	W.A.	19.5	
215	June 27	S.L.	eSN	S.	20 04 49	Aftershock of # 212.
			eMN	S.	20 07 27	
			F	S.	20.5	
216	June 28	S.L.	iPZ	M.S.	00 04 41	Deep? South America?
			eZ	M.S.	00 05 25	
			eZ	M.S.	00 05 38	
			eZ	M.S.	00 05 47	
			e(P)Z	M.S.	00 12 12	--- Another shock?
			eZ	M.S.	00 14 24	
			e(L)N	S.	00 25 44	
			F	S.	00.6	
217	June 28	S.L.	ePZ	M.S.	04 49 22	
218	June 28	S.L.	eSE	S.	17 27 00	Aftershock of # 212.
			eME	S.	17 29 32	
			F	S.	17.8	
219	June 29	S.L.	ePZ	M.S.	04 43 51	
			e(L)E	S.	05 08 --	
			F	S.	05.9	
220	June 29	S.L.	ePZ	M.S.	10 44 14	Deep.
			eZ	M.S.	10 44 30	
			e(S)E	S.	10 49 12	
			F	S.	10.9	
221	June 29	S.L.	e(S)E	S.	15 22 11	
			e(L)E	S.	15 24 42	
			F	S.	15.6	
222	June 29	S.L.	ePZ	M.S.	21 35 37	
			e(L)E	S.	21 41.9	
			F	S.	21.8	
223	June 30	S.L.	iPZ	M.S.	05 37 40	17°.0 N., 115°.9 W.
			iSE	S.	05 42 43	H = $05^h31^m23^s$
			iSN	S.	05 42 50	$\Delta_{P-H} = 30°.7$
			iSR_1E	S.	05 44 18	$\Delta_{meas} = 31°.1$
			iE	S.	05 45 30	
			F	S.	09.2	
		Fl.	iPZ	G.W.	05 37 40	$\Delta_{P-H} = 30°.7$
			iSN	G.W.	05 42 50	$\Delta_{meas} = 31°.1$
			F	G.W.	08.8	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
224	June 30	S.L.	ePZ	M.S.	09 39 42	Aftershock of # 223.
			eSE	S.	09 44 52	
			F	S.	10.1	
		Fl.	eLE	G.W.	09 47.5	
			F	G.W.	10.1	
225	June 30	S.L.	ePZ	M.S.	18 24 57	Roughly: 10°N., 75°W.
			e(S)E	S.	18 30 30	H = $18^h 18^m.5$
			eLE	S.	18 32.5	Felt at Sincelejo, Dpto,
			F	S.	19.0	Bolivar, Colombia, according to Bogota.

Minor Seismic Activity

Date	Station	From h m	To h m	Remarks
June 2	S.L.	03 22	04 25	Surface Waves?
	Fl.	03 32	04 05	
7	S.L.	02 09	02 24	
18	S.L.	15 26.5	15 31.5	May not be seismic.
24	S.L.	18 59	19 22	
28	S.L.	08 00	08 37	
29	S.L.	11 18	11 25	

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SEISMOLOGICAL BULLETIN

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
226	July 1	S.L.	ePZ	M.S.	$23^h37^m09^s$	
227	July 2	S.L.	ePZ	M.S.	08 36 18	20°7 N., 109°1 W.
			e(S)E	S.	08 40 39	H = $08^h31^m02^s$
			eS*N	S.	08 40 55	ΔP-H = 24°1
			eN	S.	08 41 51	Δmeas = 24°1
			eLN	S.	08 43 49	
			F	S.	10.0	
		Fl.	e(S)E	G.W.	08 40 40	ΔS-H = 24°9
			eSN	G.W.	08 40 53	Δmeas = 24°2
			eN	G.W.	08 41 39	
			eE	G.W.	08 42 21	
			eLE	G.W.	08 43 50	
			F	G.W.	10.0	
228	July 2	S.L.	ePZ	M.S.	09 29 14	
229	July 3	S.L.	ePZ	M.S.	04 15 15	26°4 N., 110°4 W.
			eSN	S.	04 19 09	H = $04^h10^m32^s$
			iLN	S.	04 20 30	ΔP-H = 20°9
			F	S.	Lost	Δmeas = 20°9
		Fl.	ePZ	G.W.	04 15 15	ΔP-H = 20°9
			eSE	G.W.	04 19 10	Δmeas = 21°0
			iME	G.W.	04 21 28	
			F	G.W.	Lost	
		C.G.	eLE	W.A.	04 21 39	
230	July 3	S.L.	ePZ	M.S.	04 59 45	Region of #229
			eSN	S.	05 03 40	
			eLN	S.	05 06 02	
			F	S.	Lost	
		Fl.	eLE	G.W.	05 06 11	
			F	G.W.	Lost	
		C.G.	eLE	W.A.	05 05 --	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
231	July 3	S.L.	ePZ	M.S.	05 14 47	Region of #229
			eSN	S.	05 18 48	
			eLN	S.	05 21 06	
			F	S.	05.6	
		Fl.	eSE	G.W.	05 18 46	
			eLE	G.W.	05 21 07	
			F	G.W.	05.6	
		C.G.	eLE	W.A.	05 21 36	
232	July 3	S.L.	ePZ	M.S.	15 19 01	
233	July 3	S.L.	ePZ	M.S.	22 10 37	Kurile Islands?
			eZ	M.S.	22 10 55	Deep?
			eSE	S.	22 20 28	No Surface Waves.
234	July 4	S.L.	eLN	S.	09 21 56	
			F	S.	09.5	
235	July 4	S.L.	ePZ	M.S.	10 23 28	Region: 17° N., 105° W.
			eSN	S.	10 27 56	H = $10^h18.0^m$
			eLN	S.	10 31.3	
			F	S	10.7	
236	July 5	S.L.	e(P)N	S.	12 09 00	Region: 11° N, 86° W.
			eN	S.	12 09 42	H = $12^h03.2^m$
			eSN	S.	12 13 46	
			eN	S.	12 14 14	
			F	S.	12.7	
237	July 6	S.L.	ePZ	M.S.	02 27 22	Region of #236
238	July 6	S.L.	iPZ	M.S.	12 46 31	Region of #236
			iZ	M.S.	12 46 48	
239	July 9	S.L.	ePZ	M.S.	12 03 22	
240	July 9	S.L.	iPZ	M.S.	16 49 21	4°.3 N., 77°.2 W.
			iPZ	M.S.	16 49 22	H = $16^h42^m17^s$
			iPcPZ	M.S.	16 51 33	Δ_{P-H} = 36°.1
			eSE	S	16 55 09	Δ_{meas} = 36°.1
			eScPE	S.	16 55 47	Reported felt in
			i(SR_2)E	S.	16 58 09	Western Colombia
			F	S.	17.9	
		Fl.	iPZ	G.W.	16 49 22	Δ_{P-H} = 36°.2
			iPZ	G.W.	16 49 25	Δ_{meas} = 36°.2
			iZ	G.W.	16 50 11	
			iZ	G.W.	16 50 59	
			eZ	G.W.	16 51 26	
			iZ	G.W.	16 51 42	
			iSN	G.W.	16 55 05	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
240 (Con't.)	July 9 (Con't.)	Fl. (Con't.)	eN	G.W.	16 55 22	
			eN	G.W.	16 56 05	
			iN	G.W.	16 58 19	
			eE	G.W.	16 59 21	
			eE	G.W.	17 00 20	
			F	G.W.	17.4	
		C.G.	ePE	W.A.	16 49 10	$\Delta_{P-H} = 34°7$
			eSE	W.A.	16 54 42	$\Delta_{meas} = 34°7$
241	July 10	S.L.	eZ	M.S.	21 40 29	May not be seismic
			iZ	M.S.	21 40 46	
242	July 11	S.L.	ePZ	M.S.	00 38 42	59°0 N., 149°9 W.
			ipPZ	M.S.	00 38 56	$H = 00^h30^m50^s$
			iZ	M.S.	00 39 04	h = 75 km.
			iPR_1Z	M.S.	00 40 39	$\Delta_{P-H} = 42°7$
			iZ	M.S.	00 40 43	$\Delta_{meas} = 42°7$
			$ipPR_1Z$	M.S.	00 40 51	
			$i(PR_2)Z$	M.S.	00 41 09	
			eSN	S.	00 45 07	
			eN	S.	00 45 18	
			esSN	S.	00 45 35	
			eN	S.	00 45 44	
			eSR_1E	S.	00 48 26	
			$isSR_1N$	S.	00 48 46	
			eLN	S.	00 53 12	
			F	S.	01.6	
		Fl.	ePZ	G.W.	00 38 40	$\Delta_{P-H} = 42°5$
			ipPZ	G.W.	00 38 54	$\Delta_{meas} = 42°5$
			iZ	G.W.	00 39 02	
			ePR_1Z	G.W.	00 40 36	
			eSN	G.W.	00 45 05	
			eSR_1N	G.W.	00 48 22	
			$isSR_1N$	G.W.	00 48 42	
			eLN	G.W.	00 53 08	
			F	G.W.	01.5	
		C.G.	e(P)E	W.A.	00 39 07	$\Delta_{meas} = 43.9$
			$e(PR_1)E$	W.A.	00 40 53	
			eSR_2E	W.A.	00 49 09	
243	July 11	S.L.	ePZ	M.S.	09 20 37	
			eZ	M.S.	09 20 49	
244	July 12	S.L.	ePZ	M.S.	02 11 34	
			eZ	M.S.	02 12 14	
			iZ	M.S.	02 12 24	
			eZ	M.S.	02 12 42	
245	July 12	S.L.	ePZ	M.S.	20 41 56	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
246	July 14	S.L.	e(P)Z	M.S.	05 48 58	15°5 N., 143°5 E.
			epPZ	M.S.	05 49 47	H = $05^h35^m07^s$
			eZ	M.S.	05 52 36	h = 150± km
			eZ	M.S.	05 53 17	
			iPR_1Z	M.S.	05 53 51	ΔSKS-H = 106°1
			$ipPR_1Z$	M.S.	05 54 20	Δmeas = 106°0
			iSKSN	S.	05 59 25	
			iN	S.	05 59 30	
			eSKKSE	S.	06 00 03	
			iSN	S.	06 00 28	
			isSN	S.	06 01 30	
			iE	S.	06 02 08	
			iE	S.	06 03 28	
			iN	S.	06 07.7	
			F	S.	08.5	
		Fl.	e(P)Z	G.W.	05 48 55	ΔSKS-H = 106°0
			ipPZ	G.W.	05 49 35	Δmeas = 105°8
			iSKSN	G.W.	05 59 24	
			eSN	G.W.	06 00 26	
			esSN	G.W.	06 01 30	
			F	G.W.	08.4	
		C.G.	eE	W.A.	05 53 53	ΔSKS-H = 107°4
			eSKSE	W.A.	05 59 28	Δmeas = 107°2
			F	W.A.	06.1	
247	July 15	S.L.	iPZ	M.S.	19 37 59	
		Fl.	iPZ	G.W.	19 37 58	
248	July 16	S.L.	eSN	S.	04 59 25	
			eLN	S.	05 02 55	
			F	S.	Lost	
249	July 16	S.L.	e(S)N	S.	05 22 32	
			F	S.	06.4	
		Fl.	e(S)E	G.W.	05 22 31	
			F	G.W.	06.4	
250	July 17	S.L.	ePZ	M.S.	06 52 33	Region of 13°5 N, 94°W.
			iPZ	M.S.	06 52 36	H = $06^h47^m05^s$
			iSN	S.	06 57 03	ΔP-H = 25°3
			eLN	S.	07 00 17	Δmeas = 25°3
			F	S.	07.9	
		Fl.	ePZ	G.W.	06 52 27	Time doubtful
			eN	G.W.	06 56 57	ΔS-P = 25°3
			F	G.W.	07.6	Δmeas = 25°4
251	July 17	S.L.	ePZ	M.S.	11 03 55	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
252	July 19	S.L.	ePZ	M.S.	14 33 37	Two shocks?
			e(S)E	S.	14 37 36	
			e(S)N	S.	14 38 09	
			F	S.	Lost	
		Fl.	e(S)E	G.W.	14 37 32	
			e(S)E	G.W.	14 38 12	
			F	G.W.	15.5	
253	July 21	S.L.	e(P)Z	M.S.	22 06 35	May not be seismic
254	July 21	S.L.	eZ	M.S.	22 16 41	
			e(S)E	S.	22 22 38	
			eLE	S.	22 44 50	
			F	S.	23.7	
255	July 23	S.L.	eP'Z	M.S.	04 14 16	Sumatra
			iZ	M.S.	04 14 21	Possibly deep.
			ePR Z	M.S.	04 17 42	Δ = about 143°
			iZ	M.S.	04 17 47	
			iZ	M.S.	04 17 55	
			eE	S.	04 26 32	
			e(PSKS)E	S	04 28 30	
			e(PR_2')E	S.	04 29 10	
			F	S.	07.0	
		Fl.	eP'Z	G.W.	04 14 20	
			eZ	G.W.	04 16 53	
			e(PPS)Z	G.W.	04 29 02	
			e(PPPS)N	G.W.	04 30 29	
			F	G.W.	06.5	
256	July 24	S.L.	eS_nE	W.A.	09 01 40.4	Local shock
			iS*E	W.A.	09 01 41.2	37° 45' N., 88° 05' W.
			iE	W.A.	09 01 42.2	H = $09^h00^m49.7^s$
			eE	W.A.	09 01 44.9	ΔS_n-H = 131.2 miles
						Δmeas = 131.8 miles
		Fl.	e(P_n)N	W.A.	09 01 20.8	ΔS_n-H = 143.7 miles
			eP*N	W.A.	09 01 23.2	Δmeas = 143.8 miles
			eS_nE	W.A.	09 01 44.8	
			iS*E	W.A.	09 01 45.5	
		C.G.	e(P_n)E	W.A.	09 01 05.9	ΔS*-H = 85.0 miles
			eS*E	W.A.	09 01 22.1	Δmeas = 85.1 miles
			eSgE	W.A.	09 01 24.0	
257	July 26	S.L.	eP_4E	W.A.	10 34 21	34°4 N., 81°4 W.
			eS_4E	W.A.	10 35 53	H = $10^h32^m17^s$
			eS_oE	W.A.	10 36 42	ΔP_4-H = 8°2
			F	W.A.	10 44 --	Δmeas = 8°2
						Felt in South Carolina, North Carolina, Georgia and Tennessee

No.	Date	Sta..	Phase	Inst.	h m s	Remarks
257 (Con't.)	July 26 (Con't.)	C.G.	eS_3E	W.A.	10 35 48	$\Delta_{S_3-H} = 7^{\circ}6$
			eS_2E	W.A.	10 36 02	$\Delta_{meas} = 7^{\circ}5$
			eE	W.A.	10 36 41	
			F	W.A.	10 43	
258	July 29	S.L.	ePZ	M.S.	00 39 42	Weak.
259	July 29	S.L.	iPZ	M.S.	08 06 44	
260	July 29	S.L.	ePZ	M.S.	18 52 35	Gulf of California.
			eSE	S.	18 56 28	$\Delta_{S-P} = 21^{\circ}$
			eLN	S.	18 58 49	
			iMN	S.	18 59 13	
			F	S.	19.2	
		Fl.	eSE	G.W.	18 56 34	
			eLE	G.W.	18 58 54	
			iME	G.W.	18 59 50	
			F	G.W.	19.1	
		C.G.	eLE	W.A.	18 58 50	
			e(M)E	W.A.	18 59 05	
			F	W.A.	19.0	
261	July 30	S.L.	ePZ	M.S.	05 07 44	Very Weak.
			eN	S.	05 13 40	
			eN	S.	05 17 01	
			F	S.	06.2	
262	July 31	S.L.	ePZ	M.S.	18 50 31	h = 75 km.
			epPZ	M.S.	18 50 45	
			eZ	M.S.	18 51 26	
			e(M)E	S.	19 09.0	
			F	S.	19.7	

Minor Seismic Activity

Date	Station	From h m	To h m
July 3	S.L.	20 55	21 04
12	S.L.	00 50	00 55
22	S.L.	11 14	13 00
22	S.L.	20 16	20 17
27	S.L.	21 02	21 20
30	Fl.	05 35	06 12

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No.	Date	Sta	Phase	Inst.	h m s	Remarks
263	Aug. 1	S.L.	iPZ	M.S.	11 55 43	Deep.
			ipPZ	M.S.	11 56 44	No surface waves.
			eZ	M.S.	12 02 13	South America
			iSN	S.	12 02 20	
			e(sS)N	S.	12 04 27	
		Fl.	iPZ	G.W.	11 55 46	
			epPZ	G.W.	11 56 46	
			iSZ	G.W.	12 02 23	
264	Aug. 1	S.L.	eFR Z	M.S.	22 42 23	Epicentral Region:
			e(PS)N	S.	22 52 06	24°5 N., 122°3 E.
			eN	S.	22 53 52	$H = 22^h23^m22^s$
			eSR N	S.	22 58 26	$\Delta PR_1-H = 110°2$
			eLN	S.	23 14 41	$\Delta meas = 110°2$
			F	S.	24.8	
265	Aug. 2	S.L.	ePZ	M.S.	09 21 15	
266	Aug. 2	S.L.	eZ	M.S.	18 10 17	Japan
			ePR_1Z	M.S.	18 11 48	$H = 17^h52.3^m$
			eSKKSE	S.	18 18 39	
			eSE	S.	18 19 33	
			ePSE	S.	18 21 17	
			eSR_1E	S.	18 27 44	
			F	S.	20.1	
		Fl.	ePR_1Z	G.W.	18 11 45	
			eSPZ	G.W.	18 20 50	
			F	G.W.	19.6	
267	Aug. 2	S.L	ePZ	M.S.	20 51 18	54°2 N., 131°1 W.
			iPR_1Z	M.S.	20 52 27	$H = 20^h44^m45^s$
			eSN	S.	20 56 37	$\Delta P-H = 32°3$
			iSN	S.	20 56 48	$\Delta meas = 32°3$
			iSR_1E	S.	20 58 33	
			iLE	S.	21 00 30	
			F	S.	23.0	
		Fl.	ePZ	G.W.	20 51 19	$\Delta P-H = 32°4$
			ePR_1Z	G.W.	20 52 23	$\Delta meas = 32°1$
			iSE	G.W.	20 56 41	
			iE	G.W.	20 57 22	
			eSR_1N	G.W.	20 58 25	
			iLE	G.W.	21 00 25	

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267 (Con't.)	Aug. 2	C.G.	eE	W.A.	20 52 42	Δ_{meas} = 33°5
			eLE	W.A.	21 00 48	
			e(M)E	W.A.	21 02 41	
			F	W.A.	21.5	
268	Aug. 3	S.L.	iPZ	M.S.	04 18 09	Epicentral Region:
			ePR$_1$N	S.	04 19 00	5°9 N., 81°9 W.
			iSE	S.	04 23 32	H = $04^h11^m29^s$.
			iE	S.	04 26 26	Δ_{P-H} = 33°1
			F	S.	06.2	Δ_{meas} = 33°8
		Fl.	ePZ	G.W.	04 18 10	Δ_{P-H} = 33°2
			eSE	G.W.	04 23 34	Δ_{meas} = 34°0
			eSR$_1$E	G.W.	04 26 30	
			F	G.W.	06.0	
		C.G.	ePE	W.A.	04 17 56	Δ_{P-H} = 31°6
						Δ_{meas} = 32°2
269	Aug. 3	S.L.	iPZ	M.S.	06 41 19	Aftershock of # 268.
			eSN	S.	06 46 42	
			F	S.	08.1	
		Fl.	ePZ	G.W.	06 41 21	
			eSE	G.W.	06 46 43	
			F	G.W.	08.0	
270	Aug. 4	S.L.	iPZ	M.S.	15 00 27	37°2 N., 17°1 W.
			eSKSN	S.	15 10 23	H = $14^h48^m20^s$.
			eSN	S.	15 10 43	Δ_{P-H} = 80°0
			eSKKSN	S.	15 10 58	Δ_{meas} = 79°9
			ePSN	S.	15 11 15	
			eMN	S.	15 23.0	
			F	S.	16.4	
		Fl.	ePZ	G.W.	15 00 29	Δ_{P-H} = 80°4
			eSKSN	G.W.	15 10 23	Δ_{meas} = 80°0
			eSE	G.W.	15 10 44	
			eSKKSN	G.W.	15 10 58	
			ePSE	G.W.	15 11 13	
			F	G.W.	16.3	
271	Aug. 6	S.L.	e(Pn)N	W.A.	23 52 52.5	Local shock.
			eN	W.A.	23 52 53.5	36°24'N., 89°05'W.
			eSnE	W.A.	23 53 22.4	Δ_{Sn-H} = 166.7 miles.
						Δ_{meas} = 166.4 miles.
		Fl.	e(Pn)N	W.A.	23 52 55.2	Δ_{Sn-H} = 179.0 miles.
			eSnN	W.A.	23 53 26.9	Δ_{meas} = 179.9 miles.
		C.G.	iS*E	W.A.	23 52 44.0	Δ_{S*-H} = 68.3 miles.
						Δ_{meas} = 67.9 miles.
						Felt at Caruthersville, Missouri.

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
272	Aug. 7	S.L.	eSKSE	S.	22 31 44	Roughly: 29° N., 147°E.
			eSKKSE	S.	22 32 20	H = $22^h08.0^m$
			eLE	S.	22 54 44	
			F	S.	24.7	
		Fl.	eZ	G.W.	22 25 35	
			eSKSE	G.W.	22 31 44	
			eSKKSE	G.W.	22 32 19	
			eE	G.W.	22 40 42	
			eLE	G.W.	22 54 --	
			F	G.W.	24.5	
273	Aug. 8	S.L.	eP'Z	M.S.	10 12 52	Epicentral Region:
			ePR_1ZN	M.S.	10 15 03	11°.1 N., 93°.0 W.
			eSKPZN	S.	10 16 12	H = $09^h53^m45^s$
			iN	S	10 16 22	Δ_{PR_1-H} = 129°.8
			eZ	M.S.	10 16 32	Δ_{meas} = 130°.2
			eSKSN	S.	10 19 57	
			eSKKSN	S.	10 22 07	
			eSE	S.	10 23 09	
			ePSN	S.	10 25 24	
			ePPSN	S.	10 27 06	
			$e(SR_1)E$	S.	10 32 00	
			eSR_1E	S.	10 32 23	
			eE	S.	10 34 45	
			$e(PR'_4)E$	S	10 35 11	
			e(X)E	S.	10 44.3	
			F	S.	12.7	
		Fl.	eP'Z	G.W.	10 12 52	Δ_{PS-H} = 129°.6
			ePR_1Z	G.W.	10 14 59	Δ_{meas} = 130°.1
			eZ	G.W.	10 15 10	
			eSKPZ	G.W.	10 16 11	
			eSKSN	G.W.	10 19 50	
			eSE	G.W.	10 23 08	
			ePSE	G.W.	10 25 22	
			ePPSN	G.W.	10 27 12	
			eSR_1E	G.W.	10 32 17	
			eE	G.W.	10 34 37	
			F	G.W.	Lost	
		C.G.	eSKPE	W.A.	10 16 17	Δ_{SKP-H} = 131°.4
						Δ_{meas} = 131°.9
274	Aug. 9	S.L.	eE	S.	22 17 35	Two shocks?
			eNE	S.	22 25 50	
			F	S.	23.4	
		Fl.	eE	G.W.	22 25 44	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
275	Aug. 10	S.L.	e(P)Z	M.S.	04 32 15	Weak
276	Aug. 10	S.L.	iPZ	M.S.	11 25 24	15.9 N., 88.9 W.
			ipPN	S.	11 25 33	H = 11 20 20
			iPR$_1$N	S.	11 25 51	h = 50 km.
			eSN	S.	11 29 36	ΔP-H = 23.1
			iSN	S.	11 29 43	Δmeas = 23.1
			isSN	S.	11 29 54	
			eLN	S.	11 32 14	
			F	S.	12.9	
		Fl.	iPZ	G.W.	11 25 25	ΔP-H = 23.2
			ipPZ	G.W.	11 25 34	Δmeas = 23.2
			iSN	G.W.	11 29 46	
			isSN	G.W.	11 30 00	
			F	G.W.	Lost	
		C.G.	ePE	W.A.	11 25 10	ΔP-H = 21°8
			eSE	W.A.	11 28 56	Δmeas = 21°7
			eE	W.A.	11 29 16	
			F	W.A.	11.8	
277	Aug. 10	S.L.	ePZ	M.S.	14 14 11	Aftershock of #276
			iPZ	M.S.	14 14 13	
			eSN	S.	14 18 26	
			iSN	S.	14 18 31	
			i(sS)N	S.	14 18 45	
			eLE	S.	14 21 13	
			F	S.	14.8	
		Fl.	ePZ	G.W.	14 14 13	
			eSN	G.W.	14 18 24	
			F	G.W.	14.8	
278	Aug. 11	S.L.	iPZ	M.S.	00 40 20	Epicentral Region:
			iZ	M.S.	00 40 23	7°1 N., 81°6 W.
			eZ	M.S.	00 41 44	H = $00^h33^m52^s$
			eN	S.	00 44 09	ΔP-H = 31°7
			iSN	S.	00 45 45	Δmeas = 32°4
			F	S.	02.8	
		Fl.	ePZ	G.W.	00 40 22	ΔP-H = 32°0
			ePR$_1$Z	G.W.	00 41 28	Δmeas = 32.6
			iSE	G.W.	00 45 48	
			F	G.W.	02.4	
		C.G.	ePE	W.A.	00 40 08	ΔP-H = 30°4
			eE	W.A.	00 40 21	Δmeas = 31.0
			eSE	W.A.	00 45 19	
			F	W.A.	00.8	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
279	Aug. 11	S.L.	i(P)Z	M.S.	12 52 56	Local?
280	Aug. 12	S.L.	ePZ	M.S.	08 46 38	Roughly:
			eZ	M.S.	08 46 5	30° N., 138° W.
			eSKSN	S.	08 57 12	H = 08h33.0m
			eSKKSN	S.	08 57 52	
			eSN	S.	08 58 12	
			eSR1E	S.	09 04 26	
			eLN	S.	09 17.4	
			F	S.	10.6	
281	Aug. 13	S.L.	ePZ	M.S.	03 31 54	Bering Sea
			eLE	S.	03 46 53	Δ about 49°
			F	S.	04.1	
282	Aug. 14	S.L.	i(P')Z	M.S.	08 14 09	Deep
			i(PR1)Z	M.S.	08 16 50	Two shocks?
			eZ	M.S.	08 17 16	No surface waves.
			eZ	M.S.	08 17 36	
283	Aug. 14	S.L.	ePR1Z	M.S.	12 29 06	26°8 N., 130°0 E.
			eZ	M.S.	12 30 00	H = 12h10m50s
			eSKSN	S.	12 35 36	ΔPS-H = 105°5
			e(S)E	S.	12 37 26	Δmeas = 105°0
			ePSN	S.	12 38 26	
			ePPSN	S.	12 39 38	
			eN	S.	12 42 58	
			F	S.	Lost	
		Fl.	ePR1Z	G.W.	12 29 16	ΔPR1-H = 105°5
			e(SP)Z	G.W.	12 38 15	Δmeas = 104°9
			e(L)Z	G.W.	12 56.1	S phases lost changing records
			F	G.W.	Lost	
284	Aug. 14	S.L.	eLE	S.	17 41 36	
			F	S.	17.8	
285	Aug. 15	S.L.	eSKSN	S.	14 40 04	Japan?
			eSKKSN	S.	14 40 34	Δ= about 98°
			ePSE	S.	14 42 15	
			eSR1N	S.	14 47 01	
			eLN	S.	14 57 --	
			F	S.	15.8	
286	Aug. 15	S.L.	ePZ	M.S.	18 01 17	Pasadena gives:
			iPZ	M.S.	18 01 20	33°1 N., 116°1 W.
			eSN	S.	18 05 28	H = 17h56.4m
			eLE	S.	18 07 40	Magnitude 5.7
			iLN	S.	18 07 51	
			iME	S.	18 09 35	
			F.	S.	19.0	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
286 (Con't.)	Aug. 15	Fl.	ePZ	G.W.	18 01 19	
			eSE	G.W.	18 05 23	
			iSE	G.W.	18 05 34	
			iLN	G.W.	18 07 48	
			iME	G.W.	18 09 31	
			F	G.W.	18.8	
		C.G.	ePE	W.A.	18 01 23	
			eLE	W.A.	18 07 55	
			F	W.A.	18 17 --	
287	Aug. 16	S.L.	eN	S.	00 42 01	Very distant?
			eN	S.	00 42 30	
			eN	S.	00 42 50	
			eN	S.	00 43 01	
			e(L)N	S.	00 58 --	
			F	S.	03.3 --	
288	Aug. 16	S.L.	ePZ	M.S.	01 53 12	
289	Aug. 16	S.L.	iPZ	M.S.	19 35 04	
290	Aug. 17	S.L.	eE	S.	00 24 39	
			e(M)E	S.	00 50 --	
			F	S.	01.5	
291	Aug. 17	S.L.	iPZ	M.S.	18 45 29	Guatemala
			eZ	M.S.	18 45 58	
			eSN	S.	18 49 46	
			eLN	S.	18 54 16	
			F	S.	19.0	
292	Aug. 17.	S.L.	ePZ	M.S.	18 13 28	Bering Sea
			epPZ	M.S.	19 13 40	$H = 19^h04.5^m$
			ePR_1Z	M.S.	19 15 24	$h = 50^{\pm}$ Km
			eE	S.	19 23 20	
			eLE	S.	19 29 15	
			F	S.	19.6	
293	Aug. 18	S.L.	ePZ	M.S.	11 18 10	
294	Aug. 19	S.L.	ePZ	M.S.	04 18 40	
295	Aug. 19	S.L.	ePZ	M.S.	05 39 30	Roughly: 9° S, 74° W. $H = 05^h30.6^m$
296	Aug. 19	S.L.	iPZ	M.S.	07 38 38	Central America
297	Aug. 19	S.L.	ePZ	M.S.	10 33 37	
			eZ	M.S.	10 33 44	
			M	S.	10 58 --	
			F	S.	11.1	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
298	Aug. 21	S.L.	eMN	S	05 06 45	
			F	S.	05.2	
299	Aug. 21	S.L.	iPZ	M.S.	10 20 18	Deep.
			eZ	M.S.	10 22 59	Sea of Japan?
			eE	S.	10 29 31	
			eE	S.	10 33 07	
		Fl	ePZ	G.W.	10 19 17	
			e(S)E	G.W.	10 28 52	
			e(PS)E	G.W.	10 29 28	
			e(sS)E	G.W.	10 33 06	
		C.G.	e(S)E	W.A.	10 29 01	
300	Aug. 21	S.L.	iPZ	M.S.	16 38 25	Time uncertain
			iZ	M.S.	16 38 41	10°1 S., 74°0 W.
			ipPZ	M.S.	16 38 53	h = 150± km
			iZ	M.S.	16 39 22	H = $16^h29^m44^s$
			iSN	S.	16 45 31	Δ_{meas} = 51°4
			e(sS)E	S.	16 46 16	
			eN	S.	16 50 45	
			F	S.	17.5	
		Fl.	iPZ	G.W.	16 38 29	Δ_{P-H} = 51°0
			ipPZ	G.W.	16 38 58	Δ_{meas} = 51°5
			eSE	G.W.	16 45 34	
			esSE	G.W.	16 46 25	
			F	G.W.	17.3	
		C.G.	ePE	W.A.	16 38 17	
			epPE	W.A.	16 38 44	
			eE	W.A.	16 43 33	
			eE	W.A.	16 44 06	
			F	W.A.	16 48 --	
301	Aug. 21	S.L.	iPZ	M.S.	16 48 07	Time uncertain
302	Aug. 21	S.L.	ePR1E	S.	20 21 47	Time uncertain
			eSKSE	S.	20 27 49	New Hebrides
			eSKKSE	S.	20 28 57	Δ about 110°
			eSE	S.	20 29 36	
			ePSE	S.	20 31 21	
			SR1E	S.	20 37 --	
			F	S.	23.1	
		Fl.	ePR Z	G.W.	20 21 49	
			eSKSE	G.W.	20 27 55	
			eSKKSE	G.W.	20 28 53	
			ePSE	G.W.	20 31 14	
			eME	G.W.	20 58 --	
			F	G.W.	23.0	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
303	Aug. 22	S.L.	eE	S.	05 31 13	Two shocks
			eE	S.	05 32 18	South Pacific
			eE	S.	05 42 44	
			eE	S.	05 47 28	
			F	S.	08.0	
		Fl.	eE	G.W.	05 38 47	
			eE	G.W.	05 42 45	
			F	G.W.	07.6	
304	Aug. 24	S.L.	ePZ	M.S.	09 21 28	Central America
			eSN	S.	09 26 18	H = $09^h15.6^m$
			eMN	S.	09 32.6	
			F	S.	Lost	
305	Aug. 24	S.L.	ePZ	M.S.	09 43 02	Central America
			eZ	M.S.	09 43 15	H = $09^h37.3^m$
			eZ	M.S.	09 43 22	
			eSN	S.	09 47 43	
			eMN	S.	09 53.5	
			F	S.	10.1	
306	Aug. 27	S.L.	eN	S.	01 59 09	Weak
			eLN	S.	02 04 52	
			F	S.	03.6	
307	Aug. 27	S.L.	eZ	M.S.	07 48 54	Time doubtful
			eZ	M.S.	07 53 03	22°9 N., 143°5 E.
			iSKSN	S.	07 59 12	H = $07^h34^m45^s$
			isSKSN	S.	07 59 48	h = 100± km
			eSN	S.	08 00 10	Δ_{meas} = 101°0
			esSN	S.	08 00 45	
			eSR_1N	S.	08 06 50	
			F	S.	Lost	
		Fl.	eZ	G.W.	07 55 44	Δ_{SKS-H} = 101°7
			eSKSN	G.W.	07 58 53	Δ_{meas} = 100°9
			esSKSN	G.W.	07 59 30	
			eSN	G.W.	07 59 55	
			eE	G.W.	08 00 21	
			eSR_1N	G.W.	08 06 28	
			F	G.W.	Lost	
308	Aug. 27	S.L.	eZ	M.S.	09 18 50	Time doubtful
			iLN	S.	09 26 51	Felt in San Francisco,
			F	S.	10.0	according to Pasadena
		Fl.	eLN	G.W.	09 26 21	
			F	G.W.	09.7	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
309	Aug. 27	S.L.	iPZ	M.S.	16 39 19	37°0 N, 26°5 E.
			eZ	M.S.	16 39 59	H = $16^h26^m48^s$
			eSE	S.	16 49 41	Possibly deeper than
			e(PS)E	S.	16 50 50	normal.
			eE	S.	16 51 59	ΔP-H = 84°7
			eE	S.	16 52 43	Δmeas = 85°1
310	Aug. 28	S.L.	ePZ	M.S.	19 34 36	Japan
			eZ	M.S.	19 34 50	H = $19^h21.3^m$
			e(SKS)N	S.	19 45 19	
			eSKKSN	S.	19 45 47	
			eSN	S.	19 46 15	
			e(PS)N	S.	19 47 00	
			eLN	S.	19 57 12	
			F	S.	21.8	
		Fl.	ePZ	G.W.	19 34 34	
			e(PR_1)Z	G.W.	19 38 30	
			e(SKS)E	G.W.	19 45.2	
			e(SKKS)E	G.W.	19 45 52	
			e(SR_2)E	G.W.	19 52 15	
			F	G.W.	21.5	
311	Aug. 28	S.L.	e(P)Z	M.S.	20 48 10	Indefinite beginning
			eZ	M.S.	20 49 20	
312	Aug. 29	S.L.	ePZ	M.S.	10 37 03	Epicentral Region:
			eP'Z	M.S.	10 40 29	15°4 S., 168°9 E.
			iPR_1Z	M.S.	10 41 42	H = $10^h22^m44^s$
			ePR_2Z	M.S.	10 44 06	ΔP-H = 107°2
			iE	S.	10 48 58	Δmeas = 107°7
			iSE	S.	10 49 14	
			eE	S.	10 49 47	
			iPSE	S.	10 50 58	
			iSR_1E	S.	10 56 23	
			F	S.	Lost	
		Fl.	ePZ	G.W.	10 37 00	Time doubtful
			iZ	G.W.	10 37 19	Δmeas = 107.6
			eZ	G.W.	10 39 48	
			iPR Z	G.W.	10 41 47	
			iPR Z	G.W.	10 44 04	
			eE	G.W.	10 49 47	
			iPSE	G.W.	10 50 56	
			Following phases lost changing records			
313	Aug. 29	S.L.	eZ	M.S.	15 23 03	
			eZ	M.S.	15 23 09	
			eZ	M.S.	15 24 19	
			eE	S.	15 39 05	
			e(L)E	S.	15 49 11	
			F	S.	Lost	

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No.	Date	Sta	Phase	Inst.	h m s	Remarks
314	Aug. 29	S.L.	e(P)Z	M.S.	16 13 23	
			eZ	M.S.	16 14 51	
			F	S.	17.9	
315	Aug. 30	S.L.	ePZ	M.S.	17 07 47	Gulf of California
			eSN	S.	17 11 46	
			eLN	S.	17 14 05	
			iLN	S.	17 14 29	
			F	S.	17.5	
		Fl.	eSE	G.W.	17 11 47	
			eLE	G.W.	17 41 25	
			F	G.W.	17.4	
		C.G.	eLE	W.A.	17 14 14	
			F	W.A.	17 20 --	
316	Aug. 30	S.L.	e(S)N	S.	23 55 17	Southwest Pacific
			eN	S.	24 03 11	
			F	S.	Lost	
		Fl.	e(S)N	G.W.	23 55 18	
			F	G.W.	01.2	
317	Aug. 31	S.L.	ePZ	M.S.	15 56 31	Deep.
			epPZ	M.S.	15 57 00	

Minor Seismic Activity

August, 1945

Date	Station	From h m	To h m
5	Fl	22 09	22 26
9	S.L.	03 39 03 55	03 55
11	S.L.	01 23.2	01 23.7
12	S.L.	03 27	04 35
12	S.L.	15 49	16 10
14	S.L.	20 13	20 18
15	Fl.	21 49	22 01
16	Fl.	00 56	03 02
30	S.L.	04 54	05 04

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INSTITUTE OF GEOPHYSICAL TECHNOLOGY

3621 OLIVE STREET, SAINT LOUIS 8, MO., U. S. A.

SEISMOLOGICAL BULLETIN

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
318	Sept. 1	S.L.	eP'Z	M.S.	23 03 10	Epicentral Region:
			iPR$_1$Z	M.S.	23 05 02	45°2 S., 166°7 E.
			iZ	M.S.	23 05 14	H = 22^{h}44^{m}17^s
			eSKPE	S.	23 06 23	Δ_{PR_1-H} = 124°9
			eE	S.	23 09 21	Δ_{meas} = 124°9
			iSKSE	S.	23 10 27	
			iSKKSE	S.	23 12 13	
			iPSE	S.	23 15 02	
			iE	S.	23 22 51	
			iE	S.	23 25 02	
			iE	S.	23 30 41	
			iLE	S.	23 44.2	
			F	S.	04 -- --	
		Fl.	eP'Z	G.W.	23 03 08	Δ_{PR_1-H} = 124°8
			e(PR$_1$)Z	G.W.	23 04 51	Δ_{meas} = 124°8
			iPR$_1$Z	G.W.	23 05 01	
			e(SKP)E	G.W.	23 06 30	
			eSKSE	G.W.	23 10 26	
			iSKKSE	G.W.	23 12 14	
			iPSE	G.W.	23 15 01	
			iE	G.W.	23 15 16	
			iLE	G.W.	23 44.6	
			F	G.W.	03.5	
319	Sept. 2	S.L.	iPZ	M.S.	12 06 45	34°9 N., 29°2 E.
			i(PcP)Z	M.S.	12 06 57	H = 11^{h}54^{m}05^s
			ipPZ	M.S.	12 07 04	h = 100±km.
			i(pPcP)Z	M.S.	12 07 15	Δ_{P-H} = 88°1
			iZ	M.S.	12 08 43	Δ_{meas} = 88°1
			iZ	M.S.	12 08 52	
			ePR$_1$Z	M.S.	12 10 11	
			eZ	M.S.	12 10 16	
			epPR$_1$Z	M.S.	12 10 31	
			eSKSE	S.	12 17 06	
			iSE	S.	12 17 22	
			isSKSE	S.	12 17 59	
			eE	S.	12 18 09	
			e(sS)E	S.	12 18 24	
			eSR$_1$E	S.	12 24 18	
			F	S.	13.3	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
319 (Con't.)	Sept. 2	Fl.	iPZ	G.W.	12 06 45	$\Delta_{P-H} = 88°.1$
			ipPZ	G.W.	12 07 03	$\Delta_{meas} = 88°.2$
			ePR_1Z	G.W.	12 10 11	
			$epPR_1Z$	G.W.	12 10 31	
			eSKSN	G.W.	12 17 04	
			eSZ	G.W.	12 17 21	
			esSKSN	G.W.	12 17 57	
			i(sS)Z	G.W.	12 18 24	
			eZ	G.W.	12 18 58	
			eN	G.W.	12 23 22	
			F	G.W.	Lost	
320	Sept. 3	S.L.	iPZ	M.S.	13 11 04	Epicentral Region:
			eSE	S.	13 20 56	3°.7 S., 19°.2 W.
			$e(SR_1)E$	S.	13 25.3	$H = 12^h59^m08^s$.
			F	S.	Lost	$\Delta_{P-H} = 78°.0$
						$\Delta_{meas} = 77°.9$
321	Sept. 3	S.L.	e(P)Z	M.S.	16 36 29	Time uncertain.
			eZ	M.S.	16 36 50	South America.
322	Sept. 3	S.L.	iPZ	M.S.	19 42 06	Region: 34°S., 67°W.
			epPZ	M.S.	19 42 18	$H = 19^h30^m.7$
			eSE	S.	19 51 33	h = 60±km.
			esSE	S.	19 51 55	
323	Sept. 4	S.L.	e(S)N	S.	17 42 13	Southwest coast of
			ePPSN	S.	17 45 09	New Zealand.
			$e(SR_2)N$	S.	17 54 56	$H = 17^h14^m.3$
			e(L)N	S.	18 08 --	
			F	S.	19.6	
324	Sept. 5	S.L.	ePZ	M.S.	15 47 22	
			ipPZ	M.S.	15 47 34	
			eZ	M.S.	15 49 05	
			e(S)E	S.	15 58 30	
			F	S.	17 -- --	
325	Sept. 5	S.L.	eP'Z	M.S.	22 07 35	Epicentral Region:
			ePR_1Z	M.S.	22 08 14	6° S., 155° E.
			iZ	M.S.	22 09 11	$H = 21^h48^m49^s$
			eSKSE	S.	22 14 09	$\Delta_{PR_1-H} = 113°.7$
			eSKKSE	S.	22 15 24	$\Delta_{meas} = 113°.5$
			eSE	S.	22 16 15	
			iPSE	S.	22 18 06	
			iE	S.	22 24 57	
			F	S.	Lost	
		Fl.	ePR_1Z	G.W.	22 08 10	$\Delta_{PR_1-H} = 113°.0$
			iSKSE	G.W.	22 14 11	$\Delta_{meas} = 113°.2$
			iSKKSE	G.W.	22 15 20	
			iPSE	G.W.	22 18 04	
			F	G.W.	Lost	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
326	Sept. 6	S.L.	e(PR_1)Z	M.S.	01 46 23	Aftershock of Preceding?
			eSKSE	S.	01 52 07	
			eSKKSE	S.	01 53 19	
			F	S.	05.7	
		Fl.	eSKSE	G.W.	01 52 08	
			e(SKKS)E	G.W.	01 53 25	
			F	G.W.	05.5	
327	Sept. 6	S.L.	e(PR_1)E	S.	15 08 57	Aftershock of # 325
			eSKSE	S.	15 14 43	
			eSE	S.	15 16 29	
			e(PS)E	S.	15 18 42	
			F	S.	17.8	
		Fl.	ePR_1Z	G.W.	15 08 56	
			eSE	G.W.	15 16 27	
			ePSE	G.W.	15 18 31	
			eE	G.W.	15 18 58	
			F	G.W.	17.6	
328	Sept. 7	S.L.	eE	S.	06 39 27	
			eLE	S.	07 02 --	
			F	S.	08.5	
329	Sept. 7	S.L.	eE	S.	11 08 32	
			eE	S.	11 11 45	
			F	S.	12.1	
330	Sept. 7	S.L.	iPZ	M.S.	16 00 18	45°8 N., 27°6 E.
			ipPZ	M.S.	16 00 42	H = $15^h48^m28^s$
			eSN	S.	16 10 07	h = 100+ km.
			e(sS)N	S.	16 10 45	Δ_{P-H} = 78°8
			e(PS)N	S.	16 11 13	Δ_{meas} = 78°9
331	Sept. 8	S.L.	e(PR_1)Z	M.S.	03 55 20	
			eZ	M.S.	03 55 29	
			eE	S.	04 13 20	
			eN	S.	04 14 35	
			eE	S.	04 18 23	
			eN	S.	04 21 02	
			eLN	S.	04 37 --	
			F	S.	06.5	
332	Sept. 9	S.L.	ePZ	M.S.	01 14 29	Mexico?
			e(S)N	S.	01 18 32	
			F	S.	01.7	
333	Sept. 9	S.L.	eE	S.	04 21 34	Region of: 21°S., 167°E.
			ePR_1E	S.	04 22 01	H = $04^h02^m50^s$
			eSKSE	S.	04 28 04	h = about 50 km.
			eSKKSE	S.	04 29 10	
			eN	S.	04 29 23	
			ePSE	S.	04 31 29	
			ePPSE	S.	04 32 42	
			eSR_1E	S.	04 38.0	
			F	S.	08.5	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
333 (Con't.)	Sept. 9	Fl.	ePR$_1$Z	G.W.	04 22 04	
			eSKSE	G.W.	04 28 03	
			eSKKSE	G.W.	04 29 03	
			eN	G.W.	04 29 46	
			ePSE	G.W.	04 31 27	
			ePPSE	G.W.	04 32 41	
			eSR$_1$E	G.W.	04 37 59	
			F	G.W.	07.6	
334	Sept. 9	S.L.	ePZ	M.S.	13 05 44	Region of: 13°.5 S. 74°W.
			ipPZ	M.S.	13 06 03	H = $12^h56^m28^s$.
			iZ	M.S.	13 06 12	h = 100 km.
			e(S)E	S.	13 13 13	ΔP-H = 54°.5
			e(sS)E	S.	13 13 51	Δ_{meas} = 54°.3
			F	S.	13.6	
335	Sept. 11	C.G.	eNE	W.A.	17 08 07	Local?
336	Sept. 11	S.L.	e(S)E	S.	19 35 06	Pasadena gives:
			e(sS)E	S.	19 38 06	Tonga Region. h = 530km.
		Fl.	e(S)E	G.W.	19 35 05	
337	Sept. 12	S.L.	eZ	M.S.	15 52 04	Weak.
			e(S)N	S.	15 56 50	
			e(L)N	S.	16 01 20	
			F	S.	16.2	
338	Sept. 12	S.L.	e(P)Z	M.S.	20 08 15	Weak.
			eN	S.	20 16.2	
			F	S.	20.4	
339	Sept. 13	S.L.	ePZ	M.S.	09 11 58	
			epPZ	M.S.	09 12 07	
			e(S)E	S.	09 22 27	
		Fl.	e(S)E	G.W.	09 22 24	
340	Sept. 13	S.L.	iPZ	M.S.	10 19 07	
			ipPZ	M.S.	10 19 26	
341	Sept. 13	S.L.	iPZ	M.S.	11 28 41	32°.9 S., 70°.3 W.
			ipPZ	M.S.	11 29 06	H = $11^h17^m20^s$
			iN	S.	11 30 32	h = 100±km.
			iN	S.	11 30 53	ΔP-H = 73°.7
			ePR$_1$N	S.	11 31 22	Δ_{meas} = 73°.7
			iPR$_2$Z	M.S.	11 33 23	Felt in Santiago, Chile.
			eSN	S.	11 38 03	
			iSNE	S.	11 38 07	
			iPSN	S.	11 38 35	
			isSNE	S.	11 38 45	
			i(pPS)N	S.	11 38 53	

Continued on next page

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
341 (Con't.)	Sept. 13	S.L.	iE	S.	11 39 03	
			iE	S.	11 39 25	
			iSR_1N	S.	11 43.0	
			iSR_2N	S.	11 45 19	
			iLE	S.	11 47 23	
			iE	S.	11 49 29	
			iE	S.	11 53 36	
			eME	S.	11 58 33	
			F	S.	14.1	
		Fl.	iPZ	G.W.	11 28 39	$\Delta_{P-H} = 73°3$
			ipPZ	G.W.	11 29 03	$\Delta_{meas} = 73°8$
			iZ	G.W.	11 30 52	
			iPR_1Z	G.W.	11 31 20	
			eSN	G.W.	11 38 00	
			iSN	G.W.	11 38 07	
			iPSN	G.W.	11 38 36	
			isSN	G.W.	11 38 52	
			iSR_1N	G.W.	11 43 04	
			F	G.W.	Lost	
		C.G.	ePN	W.A.	11 28 31	$\Delta_{P-H} = 72°3$
			epPN	W.A.	11 28 54	$\Delta_{meas} = 72°1$
			eSN	W.A.	11 37 48	
			esSN	W.A.	11 38 30	
			F	W.A.	11.8	
342	Sept. 14	S.L.	ePZ	M.S.	02 12 05	Epicentral Region:
			e(pP)Z	M.S.	02 12 26	$7°6$ N., $39°3$ W.
			ePR_2E	S.	02 15 15	$H = 02^h02^m39^s$
			eSE	S.	02 19 52	h = 90+km.
			iSE	S.	02 19 57	$\Delta_{P-H} = 55°6$
			iN	S.	02 20 20	$\Delta_{meas} = 55°5$
			iSR_1E	S.	02 23 49	
			iLN	S.	02 26 24	
			F	S.	05.0	
		C.G.	ePE	W.A.	02 12 04	$\Delta_{P-H} = 54°8$
			eSE	W.A.	02 19 44	$\Delta_{meas} = 54°8$
			F	W.A.	02.9	
343	Sept. 14	S.L.	iPZ	M.S.	20 40 42	
344	Sept. 15	C.G.	eNE	W.A.	19 45 45	Local?
345	Sept. 16	S.L.	e(P)Z	M.S.	00 53 01	Deep?
			eN	S.	00 53 27	
			eN	S.	00 57 10	
			eE	S.	00 57 34	
			eE	S.	00 58 08	
			eE	S.	00 58 23	
			eE	S.	00 58 45	
			$e(SR_1)E$	S.	01 02 14	
			F	S.	01.5	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
345 (Con't.)	Sept. 16	Fl.	eN	G.W.	00 52 55	
			eN	G.W.	00 57 10	
			eE	G.W.	00 57 28	
			$e(SR_1)N$	G.W.	01 02 11	
			F	G.W.	01.3	
346	Sept. 18	S.L.	iPZ	M.S.	03 18 31	
			eZ	M.S.	03 19 11	
			eLE	S.	03 41.5	
			F	S.	04.1	
347	Sept. 19	S.L.	ePZ	M.S.	12 40 32	Epicentral Region:
			iPZ	M.S.	12 40 34	42°5 N., 144°2 E.
			ipPZ	M.S.	12 40 48	$H = 12^h28^m06^s$
			iZ	M.S.	12 41 18	$h = 80^{\pm}$km.
			iZ	M.S.	12 41 35	$\Delta_{P-H} = 85°2$
			eZ	M.S.	12 42 19	$\Delta_{meas} = 85°2$
			ePR_1Z	M.S.	12 43 41	
			$e(pPR_1)Z$	M.S.	12 44 05	
			eZ	M.S.	12 44 55	
			ePR_2Z	M.S.	12 45 36	
			eZ	M.S.	12 46 08	
			eZ	M.S.	12 46 17	
			eSN	S.	12 50 50	
			iSN	S.	12 50 57	
			isSN	S.	12 51 24	
			i(PS)E	S.	12 51 51	
			eSR_1N	S.	12 56 33	
			F	S.	Lost	
		Fl.	ePZ	G.W.	12 40 31	$\Delta_{P-H} = 85°1$
			iPZ	G.W.	12 40 33	$\Delta_{meas} = 85°0$
			ipPZ	G.W.	12 40 46	
			iPR_1Z	G.W.	12 43 50	
			$ipPR_1Z$	G.W.	12 44 03	Remaining phases lost
			eSZ	G.W.	12 50 55	changing records.
		C.G.	eE	W.A.	12 41 38	$\Delta_{meas} = 86°5$
348	Sept. 19	S.L.	e(P)Z	M.S.	18 45 01	Very weak.
349	Sept. 22	S.L.	iPZ	M.S.	03 31 42	No surface.
350	Sept. 22	S.L.	ePR_1E	S.	09 29 43	Epicentral Region:
			eE	S.	09 30 43	2°8 S., 146°5 E.
			eSKSE	S.	09 35 34	$H = 09^h09^m49^s$.
			eSKKSE	S.	09 36 52	$\Delta_{PR_1-H} = 117°6$
			eSN	S.	09 37 35	$\Delta_{meas} = 117°3$
			e(PS)E	S.	09 39 38	
			ePPSN	S.	09 40 29	
			e(PPPS)E	S.	09 40 57	
			eE	S.	09 42 37	
			eSR_2E	S.	09 50 27	
			eGE	S.	09 57.7	
			F	S.	12.4	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
350 (Con't.)	Sept. 22	Fl.	eZ	G.W.	09 29 17	Δ_{PR_1-H} = 117°5
			ePR$_1$Z	G.W.	09 29 42	Δ_{meas} = 117°2
			eSKSE	G.W.	09 35 36	
			eSKKSE	G.W.	09 36 50	
			eSN	G.W.	09 37 32	
			ePSE	G.W.	09 39 29	
			e(PPPS)E	G.W.	09 40 54	
			eE	G.W.	09 42 36	
			eE	G.W.	09 43 26	
			eE	G.W.	09 44 02	
			eN	G.W.	09 45 10	
			eSR$_2$E	G.W.	09 50 29	
			eGN	G.W.	09 57.7	
			F	G.W.	12.0	
351	Sept. 23	S.L.	ePnN	W.A.	07 24 06.6	Local Shock.
			iN	W.A.	07 24 08.2	The agreement on this
			iN	W.A.	07 24 10.5	quake is very poor, the
			iSnN	W.A.	07 24 39.2	epicenter very tentative.
			iN	W.A.	07 24 42.4	36°02' N., 89°47' W.
		Fl.	iPnN	W.A.	07 24 08.5	Felt in Missouri,
			iN	W.A.	07 24 11.6	Arkansas and Tennessee.
			iSnE	W.A.	07 24 42.9	
		C.G.	ePnN	W.A.	07 23 46.5	
			iSnN	W.A.	07 24 03.5	
352	Sept. 23	S.L.	eSE	S.	08 24 17	Δ = about 51°
			eSR$_1$E	S.	08 27 44	
			eME	S.	08 35.5	
			F	S.	09 -- --	
353	Sept. 23	S.L.	ePZ	M.S.	10 02 16	H = 09^{h}57^{m}6
			eSN	S.	10 06 05	Felt in Idaho, Montana,
			e(SR$_1$)Z	M.S.	10 06 55	Washington; according to
			i(L)Z	M.S.	10 08 01	Pasadena.
			iME	S.	10 09 47	
			F	S.	10.3	
		Fl.	iMN	G.W.	10 09 34	
			F	G.W.	10.2	
354	Sept. 23	S.L.	ePZ	M.S.	15 48 03	Region of: 44°N., 120°E.
			e(L)E	S.	16 17.1	H = 15^{h}34^{m}7
			F	S.	Lost	Felt at Peiping, accord-
						ing to Pehpei.
355	Sept. 23	S.L.	iPZ	M.S.	17 25 56	19°0 N., 104°8 W.
			iZ	M.S.	17 26 05	H = 17^{h}20^{m}46^s
			iPR$_1$Z	M.S.	17 26 22	Δ_{P-H} = 23°5
			iSE	S.	17 30 13	Δ_{meas} = 23°5
			eLE	S.	17 32.2	
			iME	S.	17 33 28	
			F	S.	18.4	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
355 (Con't.)	Sept. 23	Fl.	ePE	W.A.	17 25 57	$\Delta_{P-H} = 23°6$
			iSE	G.W.	17 30 14	$\Delta_{meas} = 23°6$
			iSR_1E	G.W.	17 31 25	
			eLE	G.W.	17 32.4	
			iME	G.W.	17 33 28	
			F	G.W.	18.2	
356	Sept. 24	S.L.	e(SKS)E	S.	13 00 11	Soloman Islands?
			e(PS)E	S.	13 04 02	
			eE	S.	13 04 42	
			eE	S.	13 05 15	
			eLE	S.	13 26.6	
			F	S.	Lost	
357	Sept. 24	S.L.	e(P)Z	M.S.	19 53 50	Indefinite
358	Sept. 26	S.L.	ePZ	M.S.	03 46 24	Epicentral Region:
			eSE	S.	03 53 38	54°N., 162° W.
			eE	S.	03 57 48	$H = 03^h37^m32^s$
			eLE	S.	04 01 23	Possibly deeper than
			F	S.	04.9	normal.
						$\Delta_{P-H} = 49°9$
						$\Delta_{meas} = 49°9$
		Fl.	eSE	G.W.	03 53 35	$\Delta_{S-H} = 49°6$
			e(M)E	G.W.	04 05 37	$\Delta_{meas} = 49°8$
			F	G.W.	04.6	
359	Sept. 26	S.L.	e(P)Z	M.S.	09 05 25	Greater Antilles.
			iZ	M.S.	09 06 01	Weston gives:
			eME	S.	09 14 00	$H = 09^h00^m13^s$
360	Sept. 26	S.L.	iPZ	M.S.	14 33 03	19°5 N., 64°4 W.
			iZ	M.S.	14 33 15	$H = 14^h26^m59^s$
			eZ	M.S.	14 33 20	$\Delta_{P-H} = 29°1$
			iZ	M.S.	14 33 36	$\Delta_{meas} = 29°5$
			iPR_1Z	M.S.	14 33 45	
			eSE	S.	14 38 01	
			eSR_2E	S.	14 39 45	
			eME	S.	14 41 47	
			F	S.	16.0	
		Fl.	ePE	W.A.	14 33 06	$\Delta_{P-H} = 29°4$
			ePR_1E	W.A.	14 33 48	$\Delta_{meas} = 29°8$
			eSN	G.W.	14 38 08	
			eMN	G.W.	14 41 50	
			F	G.W.	16.0	
361	Sept. 27	S.L.	ePZ	M.S.	23 22 20	Felt in Apia, M.M. III, IV.
			e(SKS)E	S.	23 32 23	
			eSKKSE	S.	23 32 58	
			ePSE	S.	23 33 34	
			$e(SR_1)E$	S.	23 39 54	
			eLE	S.	23 52.6	
			F	S.	01.7	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
361 (Con't.)	Sept. 27	Fl.	eSKKSE	G.W.	23 33 00	
			ePSE	G.W.	23 33 36	
			eE	G.W.	23 35 06	
			e(SR_1)E	G.W.	23 39 55	
			eLE	G.W.	23 53 --	
			F	G.W.	01 -- --	
362	Sept. 28	S.L.	e(P)Z	M.S.	05 40 19	Weak.
363	Sept. 28	S.L.	iPZ	M.S.	22 29 57	41°5 N., 126°2 W.
			iPZ	M.S.	22 30 03	H = $22^h24^m08^s$
			iZ	M.S.	22 30 10	ΔP-H = 28°1
			eSE	S.	22 34 41	Δ_{meas} = 28°2
			iSE	S.	22 34 47	Pasadena gives:
			eLE	S.	22 38.0	magnitude 6
			iME	S.	22 39 48	
			F	S.	01.7	
		Fl.	ePZ	G.W.	22 29 56	ΔP-H = 28°0
			iPZ	G.W.	22 30 01	Δ_{meas} = 28°1
			eSE	G.W.	22 34 41	
			iSE	G.W.	22 34 45	
			F	G.W.	01.5	
		C.G.	ePE	W.A.	22 30 09	ΔP-H = 28°6
			eSE	W.A.	22 35 07	Δ_{meas} = 28°4
			F	W.A.	23 -- --	
364	Sept. 28	S.L.	ePZ	M.S.	23 51 24	
			iPZ	M.S.	23 51 27	
365	Sept. 29	S.L.	ePZ	M.S.	04 36 10	5°7 S., 76°8 W.
			epPZ	M.S.	04 36 20	H = $04^h27^m48^s$
			eSE	S.	04 42 51	h = 50 km.
			eSR$_1$E	S.	04 46 03	ΔP-H = 45°8
			F	S.	Lost	Δ_{meas} = 46°1
366	Sept. 29	S.L.	eSKSE	S.	05 08 04	Off Southwest coast of
			eSKKSE	S.	05 08 43	Samoa. Apia reports:
			eLE	S.	05 28 17	iP - 04 44 46
			F	S.	06.0	iS - 04 45 08
		Fl.	eSKSE	G.W.	05 08 05	
			e(L)E	G.W.	05 29.0	
			F	G.W.	06.0	
367	Sept. 29	S.L.	e(SKS)E	S.	14 55 10	
			e(PPS)E	S.	14 57 34	
			eE	S.	14 59 56	
			eLE	S.	15 04.6	

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Minor Seismic Activity

Date	Station	From h m	To h m
September 1	S.L.	00 36	01 18
5	S.L.	12 45	13 00
6	S.L.	11 46	12 54
9	S.L.	16 05	16 41
11	S.L.	18 24	19 29
12	S.L.	01 41	02 18
14	S.L.	06 53	07 51
15	S.L.	16 14	16 34
17	S.L.	15 31	16 02
28	S.L.	19 26	19 40
28	S.L.	20 46	20 54

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
368	Oct. 1	S.L.	eSKSN	S.	05 41 48	Epicentral Region:
			eSKKSN	S.	05 42 43	29°1 N., 65°5 E.
			ePSN	S.	05 45 05	H = $05^h16^m43^s$.
			ePPSN	S.	05 45 58	Δ_{PS-H} = 109°5
			eMN	S.	06 17.2	Δ_{meas} = 109°2
			F	S.	07.0	
		Fl.	ePR_1Z	G.W.	05 36 06	Time probably + 30 sec. too much - time correction doubtful.
			eSKSN	G.W.	05 42 19	
			eSKKSN	G.W.	05 43 13	Δ_{meas} = 109°1
			ePSN	G.W.	05 45 34	
			e(PPS)N	G.W.	05 46 43	
			eMN	G.W.	06 20.3	
			F	G.W.	06.9	
369	Oct. 2	S.L.	iPZ	M.S.	22 50 12	Region of: 14°S., 70°W.
						H = $22^h40^m48^s$.
						Assumed depth of focus = 150 km. Δ_{P-H} = 56°5
						Δ_{meas} = 56°5
		Fl.	ePZ	W.A.	22 50 39	Time doubtful.
						Δ_{meas} = 56°6
370	Oct. 3	S.L.	iPZ	M.S.	06 25 03	12°4 N., 90°8 W.
			eSN	S.	06 29 36	H = $06^h19^m28^s$.
			eLN	S.	07 02.5	h = 50±km.
			F	S.	07 57 --	Δ_{P-H} = 26°3
						Δ_{meas} = 26°3
		Fl.	e(P)N	W.A.	06 25 52	Time doubtful.
			e(S)Z	G.W.	06 30 41	Δ_{meas} = 26°4
			eLZ	G.W.	06 38 09	
			F	G.W.	07.2	
371	Oct. 5	S.L.	iPZ	M.S.	15 36 06	Deep?
			iZ	M.S.	15 36 10	
			iZ	M.S.	15 36 18	
372	Oct. 5	S.L.	ePZ	M.S.	23 22 55	13°0 N., 87°8 W.
			epPZ	M.S.	23 23 13	H = $23^h17^m28^s$.
			iPR_1Z	M.S.	23 23 41	h = 100±km.
			$ipPR_1Z$	M.S.	23 23 52	Δ_{P-H} = 26°0
			iSN	S.	23 27 15	Δ_{meas} = 26°0,
			iSR_1E	S.	23 28 18	
			eLN	S.	23 30.5	
			F	S.	23.8	

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373	Oct. 6	S.L.	iP'Z	M.S.	09 31 30	Region of: 2° S., 139°E.
			ePSE	S.	09 43 14	H = $09^h12^m33^s$.
			ePPSE	S.	09 44 25	ΔP'-H = 123°0
			eME	S.	10 15.5	Δ_{meas} = 123°0
			F	S.	11.7	
374	Oct. 6	S.L.	iPZ	M.S.	19 04 26	Off coast of Chile.
			iZ	M.S.	19 04 43	
375	Oct. 7	S.L.	iPZ	M.S.	13 29 01	Epicentral region:
			ipPZ	M.S.	13 29 10	12°8 N., 89°2 W.
			iSN	S.	13 33 38	H = $13^h23^m27^s$.
			isSN	S.	13 33 56	h = 50±km.
			eLN	S.	13 36.8	ΔP-H = 26°2
			F	S.	Lost	Δ_{meas} = 26°2
		C.G.	iPE	W.A.	13 28 52	ΔP-H = 25°4
			eSE	W.A.	13 33 13	Δ_{meas} = 24°6
			F	W.A.	13.9	
376	Oct. 9	S.L.	iPZ	M.S.	14 48 49	Epicentral Region:
			ipPZ	M.S.	14 49 09	44°0 N., 147°5 E.
			iSN	S.	14 59 02	H = $14^h36^m39^s$.
			isSN	S.	14 59 36	h = 100±km.
			iSR_1N	S.	15 04 27	ΔP-H = 82°7
			iSR_2N	S.	15 07 47	Δ_{meas} = 82°7
			iN	S.	15 10 35	
			iLN	S.	15 14 35	
			F	S.	17.5	
377	Oct. 11	S.L.	ePN	W.A.	16 57 41	Epicentral Region:
			ipPN	S.	16 57 52	18°3 N., 97°5 W.
			iPR_1N	S.	16 58 05	H = $16^h52^m54^s$.
			iSN	S.	17 01 36	h = 50±km.
			isSN	S.	17 01 58	ΔP-H = 21°5
			iSR_1N	S.	17 02 12	Δ_{meas} = 21°5
			eLN	S.	17 04 16	
			F	S.	17.5	
		C.G.	ePN	W.A.	16 57 31	ΔP-H = 20°7
			eSE	W.A.	17 01 17	Δ_{meas} = 20°4
			F	W.A.	17.1	
378	Oct. 13	S.L.	ePZ	M.S.	00 46 01	
37	Oct. 13	S.L.	ePZ	M.S.	06 26 08	
			e(L)N	S.	06 35 32	
			F	S.	06.7	
		Fl.	e(L)Z	G.W.	06 37 08	

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380	Oct. 14	S.L.	ePZ	M.S.	04 20 25	Region of:
			eZ	M.S.	04 20 36	15° S., 173° W.
			eSKSE	S.	04 30 59	H = $04^h07^m10^s$.
			eSKKSE	S.	04 31 21	ΔP-H = 93°6
			eSE	S.	04 31 55	Δ_{meas} = 93°9
			eLE	S.	04.7	
			F	S.	06.0	
		Fl.	ePZ	G.W.	04 20 23	ΔP-H = 93°1
			eSKSE	G.W.	04 31 00	Δ_{meas} = 93°8
			eSKKSE	G.W.	04 31 20	
			eSE	G.W.	04 31 52	
			e(PS)E	G.W.	04 33 00	
			eLE	G.W.	04.8	
			F	G.W.	05.5	
381	Oct. 15	S.L.	ePE	W.A.	08 08 28	Epicentral Region:
			ePR_1E	W.A.	08 09 37	58°3 N., 135°3 W.
			eSN	S.	08 14 08	H = $08^h01^m33^s$.
			eLN	S.	08 18 49	ΔP-H = 35°0
			F	S.	09.2	Δ_{meas} = 35°0
382	Oct. 16	S.L.	eP'Z	M.S.	16 22 08	Region of: 0°N., 125°E.
			iP'Z	M.S.	16 22 09	H = $16^h03^m03^s$.
			iPR_1Z	M.S.	16 24 19	h = 100±km.
			iSKPZ	M.S.	16 25 24	ΔPS-H = 130°2
			iSKKSE	S.	16 31 13	Δ_{meas} = 130°1
			eE	S.	16 31 37	
			ePSE	S.	16 34 25	
			eE	S.	16 37 41	
			F	S.	19.2	
383	Oct. 17	S.L.	ePZ	W.A.	06 29 49	
384	Oct. 20	S.L.	iPZ	M.S.	00 39 00	
			iZ	M.S.	00 39 08	
			iPR_1Z	M.S.	00 39 50	
			eSE	S.	00 43 57	
			iSR_1E	S.	00 45 39	
			eLE	S.	00 47.5	
			F	S.	01.7	
385	Oct. 20	S.L.	ePZ	M.S.	02 49 47	
			eE	S.	03 00 09	
			iE	S.	03 01 36	
			eE	S.	03 02 18	
			F	S.	03.1	
386	Oct. 21	S.L.	ePZ	M.S.	00 35 47	
			iPZ	M.S.	00 35 48	
			eN	S.	00 44 56	
			iN	S.	00 47 19	
			F	S.	00 51 --	

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387	Oct. 21	S.L.	eP'Z	M.S.	03 39 45	Epicentral Region:
			ePR$_1$Z	M.S.	03 40 24	23°.5 N., 120°.0 E.
			ePSN	S.	03 49 51	H = 03^{h}21^{m}08^s.
			iPPSE	S.	03 50 49	ΔPS-H = 111°.8
			eLN	S.	04 -- --	Δ_{meas} = 111°.8
			F	S.	06.2	
388	Oct. 21	S.L.	ePZ	M.S.	12 58 23	
			eN	S.	13 08 39	
			F	S.	13 15 --	
389	Oct. 21	S.L.	eZ	M.S.	15 57 47	Indefinite beginning.
			eZ	M.S.	15 57 58	
390	Oct. 24	S.L.	iPZ	M.S.	05 28 38	
			iZ	M.S.	05 28 57	
			iZ	M.S.	05 29 06	
391	Oct. 25	S.L.	eZ	M.S.	08 53 15	Indefinite beginning.
			iZ	M.S.	08 53 19	
			iN	S.	09 01 50	
			eLN	S.	09 07.0	
			F	S.	09.6	
392	Oct. 25	S.L.	iPZ	M.S.	15 09 30	Epicentral Region:
			iZ	M.S.	15 09 57	57°.4 N., 163°.6 E.
			iZ	M.S.	15 10 06	H = 14^{h}58^{m}47^s.
			iSN	S.	15 18 20	ΔP-H = 66°.1
			F	S.	Lost	Δ_{meas} = 66°.1
		C.G.	ePE	W.A.	15 10 39	Time doubtful.
			eE	W.A.	15 10 44	Δ_{meas} = 67°.4
393	Oct. 25	S.L.	iPZ	M.S.	15 12 53	Aftershock of # 392.
			iSE	S.	15 21 43	
			F	S.	Lost	
394	Oct. 25	S.L.	iPZ	M.S.	15 13 46	Aftershock of # 392.
			iSN	S.	15 22 37	
			F	S.	Lost	
395	Oct. 25	S.L.	eZ	M.S.	15 37 53	Indefinite beginning.
			eZ	M.S.	15 38 10	
396	Oct. 25	S.L.	ePZ	M.S.	16 54 43	Aftershock of # 392.
			iPZ	M.S.	16 54 46	
397	Oct. 25	S.L.	iPZ	M.S.	17 50 40	Aftershock of # 392.
			iZ	M.S.	17 50 47	
398	Oct. 26	S.L.	iPZ	M.S.	09 39 11	Near Apia.

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
399	Oct. 26	S.L.	ePZ eSE F	M.S. S. S.	14 09 16 14 19 47 Lost	Region of: 41°N., 34°E. H = 13h56m40s. Δ_{P-H} = 85°.7 Δ_{meas} = 85°.7
400	Oct. 26	S.L.	ePZ iPZ	M.S. M.S.	22 22 48 22 22 49	
401	Oct. 27	S.L.	eLE F	S. S.	00.3 01.0	
402	Oct. 27	S.L.	iPZ	M.S.	06 54 30	
403	Oct. 27	S.L.	ePN ePN eSZ eZ iZ iZ	W.A. W.A. M.S. M.S. M.S. M.S.	10 42 20.4 10 42 21.7 10 42 50.6 10 42 54.2 10 42 55.4 10 42 57.4	Probably in Pemiscot Co., Missouri. Reported felt i in Point Pleasant, Mo.
		C.G.	eSE	W.A.	10 42 17.3	
404	Oct. 27	S.L.	iPZ ipPZ iPR_1Z $ipPR_1Z$ iSZ iZ isSZ eLN F	M.S. M.S. M.S. M.S. M.S. M.S. M.S. S. S.	11 29 31 11 29 57 11 30 10 11 30 20 11 33 27 11 33 37 11 34 11 11 38.2 13 42 --	Region of: 15°N., 91°W. H = 11h24m24s. h = 100±km. Δ_{P-H} = 23°.7 Δ_{meas} = 23°.7
		C.G.	ePE iSE isSE F	W.A. W.A. W.A. W.A.	11 29 20 11 33 08 11 33 34 11 54 --	Δ_{P-H} = 22°.8 Δ_{meas} = 22°.3
405	Oct. 28	S.L.	eLN F	S. S.	00 51.5 02.3	
406	Oct. 28	S.L.	ePZ ipPKPZ iSKSE eE ePPSE eLE F	M.S. M.S. S. S. S. S. S.	05 51 53 05 57 02 06 02 06 06 05 26 06 06 18 06 07.6 07.1	Epicentral Region: 13°.8 S., 167°.8 E. H = 05h37m48s. h = 200±km. Δ_{P-H} = 108°.3 Δ_{meas} = 108°.1
407	Oct. 28	S.L.	iPZ eE eE iE F	M.S. S. S. S. S.	08 14 57 08 30 06 08 32 03 08 33 45 08.6	

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No.	Date	Sta	Phase	Inst.	h m s	Remarks
408	Oct. 28	S.L.	ePZ	M.S.	20 35 52	
409	Oct. 29	S.L.	eLE F	S. S.	05 49.0 06 23 --	
410	Oct. 29	S.L.	ePZ	M.S.	06 49 01	
411	Oct. 29	S.L.	iPZ ipPZ iPR$_1$Z iSE eSR1N isSP$_1$E eLE F	M.S. M.S. M.S. S. S. S. S. S.	11 00 38 11 00 48 11 01 35 11 05 48 11 07 10 11 07 37 11 08.6 Lost	Epicentral Region: 51°3 N., 129°5 W. H = $10^h54^m28^s$. h = 50±km. Δ_{P-H} = 30°1 Δ_{meas} = 30°1
412	Oct. 29	S.L.	iPZ	M.S.	11 50 37	
413	Oct. 30	S.L.	ePZ	M.S.	13 18 46	

Minor Seismic Activity

October, 1945.

Date	Station	From h m	To h m
October 2	S.L.	01 24	02 13
2	Fl.	01 29	01 57
6	S.L.	22 36	23 24
8	S.L.	06 00	06 11
11	S.L.	09 59	10 13
11	S.L.	12 29	12 41
15	S.L.	18 43	19 23
16	S.L.	02 37	03 14
23	S.L.	21 27	21 38
24	S.L.	03 18	03 48
27	S.L.	07 14	07 33
29	S.L.	07 00	07 13
29	S.L.	10 26	10 33
29	C.G.	11 00	11 42
30	S.L.	02 07	02 18

James B. Macelwane, S. J.
Director

Donald P. Venker
Student Assistant

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SYMBOLS AND STATION CONSTANTS

CG—CAPE GIRARDEAU (in cooperation with Southeast Missouri State Teachers College, Cape Girardeau, Mo., U. S. A.) — (inaugurated, 1938)
Latitude: geographical, 37°19′N; geocentric, 37°08′N.
Longitude: 89°32′W. Altitude: h = 134m, H+h = 4km.
Lithologic foundation: limestone.
Seismographs: Wood-Anderson short period EN.
Director of the Station: Professor John Harty.

FL—FLORISSANT (in cooperation with Saint Stanislaus Seminary, Florissant, Missouri, U. S. A.)—(inaugurated, 1928)
Latitude: geographical, 38°48′06″N; geocentric, 38°37′N.
Longitude: 90°22′12″W. Altitude: h = 160m, H+h = 4km.
Lithologic foundation: Pennsylvanian shale.
Seismographs: Galitzin-Wilip ENZ, Wood-Anderson short period EN.
Clock: Shortt synchronome.
Director of the Station: Reverend James B. Macelwane, S. J.

LR—LITTLE ROCK (in cooperation with Saint John's Seminary, Pulaski Heights, Little Rock, Arkansas, U. S. A.)—(inaugurated, 1930).
Latitude: geographical, 34° 47′N; geocentric, 34°36′N.
Longitude: 92°21′W. Altitude: h = 135m, H+h = 5 km.
Lithologic foundation: sandstone.
Seismographs: Wood-Anderson short period EN.
Clock: Howard-Gaertner.
Director of the Station: Monsignor Joseph A. Murray.

SL—SAINT LOUIS I, Administration Building of Saint Louis University, 221 North Grand Boulevard — (inaugurated, January 1, 1910).
Latitude: geographical, 38°38′11″N; geocentric, 38°27′N.
Longitude: 90°14′00″W. Altitude: h = 160m, H+h = 4 km.
Lithologic foundation: clay.
Seismograph: Wiechert (80 kg) EN.
Clock: Wiechert.

II, University Gymnasium, 3672 West Pine Boulevard — (inaugurated, 1927).
Latitude: geographical, 38°38′10″N; geocentric, 38°27′N.
Longitude: 90°14′10″W. Altitude: h = 161m, H+h = 4 km.
Lithologic foundation: Mississippian limestone.
Seismographs: Wood-Anderson short period EN.
Macelwane-Sprengnether Z; Sprengnether NE.
Clock:Wiechert.
Director: Reverend James B. Macelwane, S.J.

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
414	Nov. 2	S.L.	iPZ	M.S.	17 49 01	
			i(pP)Z	M.S.	17 49 09	
415	Nov. 2	S.L.	iPZ	M.S.	19 21 20	
			eE	S.	19 22 34	
			F	S.	Lost	
416	Nov. 3	S.L.	iPR_1Z	M.S.	04 11 45	Region of: 23°N., 108°3W.
			iZ	M.S.	04 11 54	H = $04^h06^m22^s$.
						Δ_{PR_1-H} = 22°3
						Δ_{meas} = 22°1
417	Nov. 3	S.L.	iPN	S.	22 17 01	59°6 N., 148°8 W.
			epPN	S.	22 17 17	H = $22^h09^m14^s$.
			iPR_1N	S.	22 18 51	h = 75 km.
			iSN	S.	22 23 21	Δ_{P-H} = 42°1
			iSR_1N	S.	22 26 48	Δ_{meas} = 42°0
			iLN	S.	22 30 50	
			F	S.	24.2	
		Fl.	ePZ	G.W.	22 16 59	Δ_{P-H} = 41°8
			iPZ	G.W.	22 17 19	Δ_{meas} = 41°8
			iPR_1Z	G.W.	22 18 53	
			eSN	G.W.	22 23 19	
			eSR_1N	G.W.	22 26 47	
			iLN	G.W.	22 30 06	
			F	G.W.	23.7	
		C.G.	ePE	W.A.	22 17 12	Δ_{PH} = 43°6
			ePE	W.A.	22 17 27	Δ_{meas} = 43°4
			$i(PR_1)E$	W.A.	22 19 09	
			F	W.A.	Lost	
418	Nov. 7	S.L.	ePZ	M.S.	20 25 13	
419	Nov. 7	S.L.	iPZ	M.S.	02 42 59	
420	Nov. 8	S.L.	ePZ	M.S.	09 14 21	Region of:
			iPR_1Z	M.S.	09 16 13	82°0 N., 10°0 W.
			eSN	S.	09 21 24	H = $09^h05^m25^s$.
			eSR_1N	S.	09 24 55	Δ_{P-H} = 50°4
			eLN	S.	09 29.5	Δ_{meas} = 50°5
			iMN	S.	09 34.0	
			F	S.	Lost	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
420 (Con't.)	Nov. 8	Fl.	iPZ	G.W.	09 14 18	Δ_{PR_1-H} = 50°4
			iPR_1Z	G.W.	09 16 13	Δ_{meas} = 50°4
			iSN	G.W.	09 21 21	
			iSR_1N	G.W.	09 24 56	
			eLN	G.W.	09 29.2	
			iMN	G.W.	09 34.3	
			F	G.W.	Lost	
421	Nov. 8	S.L.	ePZ	M.S.	10 11 41	Aftershock of # 420.
			iPR_1Z	M.S.	10 13 29	
			eSN	S.	10 18 38	
			eSR_1N	S.	10 21 53	
			eLN	S.	10 27.1	
			iMN	S.	10 32.5	
			F	S.	11.1	
		Fl.	ePZ	G.W.	10 11 33	
			iPR_1Z	G.W.	10 13 26	
			iSN	G.W.	10 18 52	
			iSR_1N	G.W.	10 22 06	
			eLN	G.W.	10 26.0	
			iMN	G.W.	10 32.3	
			F	G.W.	11.2	
422	Nov. 9	S.L.	e(P)Z	M.S.	13 05 22	
			$e(PR_1)Z$	M.S.	13 05 37	
423	Nov. 10	S.L.	e(P)Z	M.S.	00 08 20	
			iZ	M.S.	00 08 29	
424	Nov. 10	S.L.	e(P)N	W.A.	09 00 48	Local?
			F	W.A.	Lost	
425	Nov. 10	S.L.	eLE	S.	19 44 05	
			F	S.	20.1	
		Fl..	eLE	G.W.	19 44 02	
			F	G.W.	20.1	
426	Nov. 10	S.L.	eLE	S.	22 56 21	
			F	S.	Lost	
		Fl.	eLE	G.W.	22 56 42	
			F	G.W.	Lost	
427	Nov. 10	S.L.	eLE	S.	23 40 31	
			F	S.	24.2	
		Fl.	eLE	G.W.	23 39 06	
			F	G.W.	24.2	
428	Nov. 13	S.L.	iPV	W.A.	02 55 16	8°3 S., 78°8 W.
			epPV	W.A.	02 55 35	H = $02^h46^m47^s$.
			eSN	S.	03 02 11	h = 100 km.
			esSN	S.	03 02 40	Δ_{P-H} = 48°0
			F	S.	Lost	Δ_{meas} = 48°0

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429	Nov. 13	S.L.	e(L)N	S.	09 29 38	
			F	S.	Lost	
		Fl.	e(L)E	G.W.	09 29 20	
			F	G.W.	Lost	
430	Nov. 13	S.L.	iPnZ	M.S.	21 22 21	Epicenter:
			iSnZ	M.S.	21 22 45.5	89°2 W., 36°93 N.
			F	M.S.	21 30.0	H = $21^h21^m48^s.9$
						Δ_{Pn-H} = 131.0 Mi.
						$\Delta_{calc.}$ = 130.4 Mi.
		Fl.	iPnE	W.A.	21 22 23.3	Δ_{Pn-H} = 143.0 Mi.
			iSnE	W.A.	21 22 50.8	$\Delta_{calc.}$ = 143.9 Mi.
			F	W.A.	21 30.0	
		C.G.	iP*E	W.A.	21 21 56.1	Δ_{S*-P*} = 31.5 Mi.
			iS*E	W.A.	21 22 02.3	$\Delta_{calc.}$ = 32.2 Mi.
			F	W.A.	21 26.0	Felt in Missouri, Illinois, Kentucky and Tennessee.
431	Nov. 15	S.L.	ePZ	M.S.	21 58 51	
			eE	S.	22 06 38	
			F	S.	Lost	
432	Nov. 16	S.L.	iPZ	M.S.	18 09 20	Epicentral region:
			iPR_1Z	M.S.	18 10 35	57°9 N., 135°5 W.
			iPR_2Z	M.S.	18 10 51	H = $18^h02^m23^s$.
			eSN	S.	18 15 02	Δ_{P-H} = 35°2
			eLN	S.	18 20 23	Δ_{meas} = 35°2
			F	S.	19.2	
		Fl.	iPN	W.A.	18 09 19	Δ_{P-H} = 35°1
			iPR_1N	W.A.	18 10 34	Δ_{meas} = 35°1
			eSE	W.A.	18 15 02	
			iLN	W.A.	18 20 21	
			F	W.A.	18.7	
433	Nov. 17	S.L.	iPZ	M.S.	16 20 33	
434	Nov. 17	S.L.	ePZ	M.S.	22 26 04	Region of:
			ePR_1Z	M.S.	22 27 16	58°4 N., 136°0 W.
			eLE	S.	22 37 49	H = $22^h18^m50^s$.
			iME	S.	22 40 47	Δ_{P-H} = 35°6
			F	S.	22.9	Δ_{meas} = 35°6
		Fl.	eLN	W.A.	22 37 39	
			eMN	W.A.	22 40 06	
			F	W.A.	22.8	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
435	Nov. 18	S.L.	iPZ	M.S.	01 11 42	Epicentral region:
			ePR_1Z	M.S.	01 11 56	38°3 N., 111°6 W.
			eSZ	M.S.	01 15 04	H = $01^h07^m44^s$.
			iLZ	M.S.	01 16 10	ΔP-H = 17°0
						Δ_{meas} = 17°0
						Reported felt in Richfield, Glenwood, and Monroe in Sevier Co., Utah, by Pasadena.
436	Nov. 20	S.L.	eLE	S.	04 08 15	
			F	S.	04.2	
437	Nov. 20	S.L.	iPZ	M.S.	06 41 07	
			iZ	M.S.	06 41 21	
			eLE	S.	07 05 47	
			F	S.	07.8	
438	Nov. 20	S.L.	ePZ	M.S.	18 12 27	Region of: 15°N., 98°W.
			iPZ	M.S.	18 12 28	H = $18^h07^m16^s$.
			eSN	S.	18 16 52	ΔP-H = 23°6
			eSR_1E	S.	18 17 47	Δ_{meas} = 23°7
			eLE	S.	18 22 07	
			F	S.	19.0	
		Fl.	ePN	W.A.	18 12 27	ΔP-H = 23°6
			iPN	W.A.	18 12 28	Δ_{meas} = 23°8
			eSN	G.W.	18 16 54	
			eSR_1N	G.W.	18 18 51	
			eLN	G.W.	18 21 32	
			F	G.W.	19.0	
439	Nov. 22	S.L.	ePZ	M.S.	15 24 53	Epicentral region:
			iPZ	M.S.	15 24 57	20°4 N., 67°5 W.
			ePR_2Z	M.S.	15 25 53	H = $15h19m07s$.
			eSN	S.	15 29 29	ΔP-H = 27°1
			eLN	S.	15 32 12	Δ_{meas} = 27°1
			eMN	S.	15 34 45	
			F	S.	16.4	
		Fl.	ePN	W.A.	15 24 58	ΔP-H = 27°6
			ePR_1N	W.A.	15 25 36	Δ_{meas} = 27°3
			eSE	G.W.	15 29 46	
			eLE	G.W.	15 32 56	
			F	G.W.	Lost	
440	Nov. 24	S.L.	eLE	S.	03 05 14	
			F	S.	03.7	
441	Nov. 25	S.L.	ePZ	M.S.	03 29 50	
			iPZ	M.S.	03 29 52	
			$i(PR_1)Z$	M.S.	03 30 01	
			e(S)Z	M.S.	03 33 04	
			F	M.S.	Lost	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
441 (Con't.)	Nov. 25	Fl.	e(P)N eZ F	W.A. W.A. W.A.	03 29 56 03 30 07 Lost	Very weak.
442	Nov. 26	Fl.	iPN iSN eSR1N F	W.A. G.W. G.W. G.W.	01 12 27 01 18 47 01 21 04 Lost	Region of: 8°5 S., 74°2 W. H = 01h04m0 Probably deeper than normal. Δ_{P-H} = 49°8 Δ_{meas} = 49°8
443	Nov. 26	S.L.	ePZ eSN F	M.S. S. S.	04 42 53 04 47 16 Lost	Along the Pacific coast of Mexico.
444	Nov. 26	S.L.	ePZ iPR1Z iSKSE iSKKSN eSN esSKSE isSN iSR1N eLN F	M.S. M.S. S. S. S. S. S. S. S. S.	05 26 06 05 30 28 05 35 47 05 36 34 05 37 06 05 39 48 05 41 05 05 44 27 05 51 57 06.6	Epicentral region: 22°4 S., 179°1 W. H = 05h13m10s. h = 550 km. Δ_{S-P} = 103°0 Δ_{meas} = 102°9
		Fl.	iPR1E iSKSE iSKKSE eSN isSKSE esSN eSR1N F	G.W. G.W. G.W. G.W. G.W. G.W. G.W. G.W.	05 30 27 05 35 49 05 36 33 05 37 05 05 39 49 05 41 03 05 44 25 06.6	Δ_{SKS-H} = 102°8 Δ_{meas} = 102°8
445	Nov. 27	S.L.	ePZ iPZ eSE eSR1E eLN F	W.A. W.A. S. S. S. S.	05 41 53 05 41 54 05 50 41 05 54 58 06 03 24 06.5	Kamchatka. Deep?
		Fl.	eSE eLE F	G.W. G.W. G.W.	05 50 39 06 05 22 06.5	
446	Nov. 27	S.L.	ePN eN F	W.A. W.A. W.A.	08 59 25 08 59 33 Lost	Deep?
447	Nov. 27	S.L.	ePZ eSN eSR1E eMN F	M.S. S. S. S. S.	10 47 27 10 51 43 10 52 39 10 57 31 Lost	Mexico.

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448	Nov. 27	S.L.	e(S)E	S.	10 56 15	
			e(SR1)E	S.	10 57 57	
			F	S.	Lost	
449	Nov. 27	S.L.	eP'Z	M.S.	12 13 24	Borneo.
			ePR1Z	M.S.	12 15 48	Δ = about 133°
			eSKPN	S.	12 16 49	Foreshock?
			e(SKS)Z	M.S.	12 20 12	
			F		Lost	
450	Nov. 27	S.L.	eP'Z	M.S.	12 42 33	Borneo.
			ePR1Z	M.S.	12 44 53	Δ = about 133°
			eSKPE	S.	12 45 56	
			F	S.	Lost	
451	Nov. 27	S.L.	ePL	S.	22 11 34	Epicentral region:
			iPR1Z	M.S.	22 16 12	25°3 N., 63°0 E.
			iPR2Z	M.S.	22 19 14	H = 21h56m52s.
			iSKSZ	M.S.	22 22 36	Δ_{P-H} = 111°9
			iPSZ	M.S.	22 25 37	Δ_{meas} = 111°9
			eLZ	M.S.	22 51 42	
			eMZ	M.S.	23 03.4	
			F	M.S.	01.5	
		C.G.	ePR1N	W.A.	22 16 22	Δ_{PR_1-H} = 114°.2
			eLE	W.A.	22.6	Δ_{meas} = 113°5
			F	W.A.	24.9	
452	Nov. 29	S.L.	e(P)Z	M.S.	05 24 51	
			eE	S.	05 32 35	
			eLE	S.	05 42 49	
			iME	S.	05 48 29	
			F	S.	06.3	

Minor Seismic Activity
November, 1945

Date	Station	From h m	To h m
November 8	C.G.	10 27	11 43
11	S.L.	09 51	11 41
11	Fl.	09 49	11 40
13	S.L.	08 00	08 26
14	S.L.	10 28	10 36
15	S.L.	02 23	02 53
20	Fl.	07 20	07 33
22	S.L.	21 13	23 11
23	S.L.	05 38	05 50
28	S.L.	20 03	20 33
29	S.L.	13 07	13 21

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
453	Dec. 3	S.L.	iPZ	M.S.	01 57 31	
			iZ	M.S.	01 57 44	
			iZ	M.S.	01 57 50	
			eZ	M.S.	01 58 35	
454	Dec. 6	S.L.	ePZ	M.S.	08 42 43	
			eZ	M.S.	08 42 56	
			e(L)E	S.	08 50 20	
			F	S.	09.2	
455	Dec. 8	S.L.	ePE	S.	01 19 02	Region of: 6°S., 151°E.
			eP'Z	M.S.	01 22 48	$H = 01^h04^m00^s$.
			ePR_1E	S.	01 23 54	Probably deep.
			eE	S.	01 30 02	$\Delta_{PS-H} = 116°9$
			eSKKSE	S.	01 30 53	$\Delta_{meas} = 116°5$
			iSE	S.	01 31 30	
			iPSE	S.	01 33 34	
			ePPSE	S.	01 35 04	
			eSR_1E	S.	01 39 48	
			eSR_2E	S.	01 44 23	
			F	S.	04.4	
		Fl.	ePR_1Z	G.W.	01 23 57	$\Delta_{SKKS-H} = 116°5$
			iE	G.W.	01 29 02	$\Delta_{meas} = 116°4$
			iE	G.W.	01 30 02	
			eSKKSE	G.W.	01 30 48	
			iE	G.W.	01 32 38	
			eSR_1E	G.W.	01 39 58	
			$i(SR_2)E$	G.W.	01 43 52	
			F	G.W.	04.2	
456	Dec. 9	S.L.	ePZ	M.S.	06 20 38	Epicentral Region:
			iPZ	M.S.	06 20 39	46°3 N., 25°6 E.
			ipPZ	M.S.	06 21 01	$H = 06^h08^m50^s$.
						h = 100 km.
						$\Delta_{P-H} = 78°1$
						$\Delta_{meas} = 78°1$
457	Dec. 9	S.L.	ePZ	M.S.	20 51 08	14°0 N., 92°3 W.
			eN	S.	20 53 11	$H = 20^h45^m46^s$.
			iSN	S.	20 55 40	$\Delta_{P-H} = 24°7$
			iSPN	S.	20 56 04	$\Delta_{meas} = 24°7$
			iE	S.	20 56 19	
			iSR_1N	S.	20 56 50	
			iE	S.	20 57 18	
			eLE	S.	20 58.6	
			F	S.	22.0	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
457 (Con't.)	Dec. 9	Fl.	ePN	W.A.	20 51 11	$\Delta_{P-H} = 25°0$
			eSPN	G.W.	20 56 07	$\Delta_{meas} = 24°9$
			iE	G.W.	20 56 23	
			eSR_1N	G.W.	20 56 54	
			eSR_2N	G.W.	20 57 07	
			F	G.W.	21.9	
458	Dec. 14	S.L.	iPZ	M.S.	17 34 37	Region of: 4°5S., 79°W.
			ipPZ	M.S.	17 35 07	H = $17^h26^m40^s$.
			iSN	S.	17 40 51	h = 150 km.
			isSE	S.	17 41 43	
			$e(SR_1)E$	S.	17 44 01	
			iE	S.	17 44 26	
			F	S.	18.2	
		Fl.	iPN	W.A.	17 34 39	
			ipPN	W.A.	17 35 08	
			eSN	W.A.	17 40 53	
			eN	W.A.	17 45 25	
			F	W.A.	17.8	
459	Dec. 17	S.L.	e(P)Z	M.S.	17 51 01	
460	Dec. 18	S.L.	e(P)Z	M.S.	20 53 10	Mexico?
461	Dec. 18	S.L.	e(P)Z	M.S.	24 06 12	
			i(P)Z	M.S.	24 06 24	
462	Dec. 20	S.L.	eP'Z	M.S.	04 18 11	Epicentral Region:
			ePR_1N	S.	04 19 42	7°9 N., 127°4 E.
			eN	S.	04 27 10	H = $03^h59^m12^s$.
			iN	S.	04 28 35	$\Delta_{PR_1-H} = 122°8$
			iSR_1E	S.	04 36 15	$\Delta_{meas} = 122°5$
			F	S.	06.5	
463	Dec. 22	S.L.	e(P)Z	M.S.	21 53 58	Indefinite beginning.
			iZ	M.S.	21 54 07	
			eLE	S.	22 09 10	
			F	S.	22.4	
464	Dec. 23	S.L.	ePZ	M.S.	08 17 11	Epicentral Region:
			iPZ	M.S.	08 17 12	10°7 N., 62°3 W.
			ipPZ	M.S.	08 17 25	H = $08^h10^m05^s$.
			iSN	S.	08 22 57	h = 100±km.
			esSN	S.	08 23 31	$\Delta_{P-H} = 37°4$
			iSR_1N	S.	08 25 43	$\Delta_{meas} = 37°6$
			eLN	S.	08 27 59	
			F	S.	09.7	
		C.G.	iPN	W.A.	08 17 02	$\Delta_{P-H} = 36°2$
			ipPE	W.A.	08 17 15	$\Delta_{meas} = 36°4$
			eSN	W.A.	08 22 41	
			eE	W.A.	08 23 03	
			eLE	W.A.	08 26 18	
			F	W.A.	08.7	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
465	Dec. 25	S.L.	iPZ	W.A.	01 36 18	Epicentral Region:
			iPR_1E	S.	01 38 46	53°0 N., 175°4 E.
			ePR_3E	S.	01 41 08	H = $01^h25^m55^s$.
			iSE	S.	01 44 49	ΔP-H = 63°1
			iSPE	S.	01 45 22	Δmeas = 62°9
			iSR_1E	S.	01 49 42	
			iLN	S.	01 56 33	
			F	S.	03.4	
		Fl.	iPZ	G.W.	01 36 17	ΔP-H = 63°0
			iPR_1Z	G.W.	01 38 36	Δmeas = 62°7
			iSN	G.W.	01 44 46	
			iSPN	G.W.	01 45 22	
			eSR_1N	G.W.	01 49 32	
			eLE	G.W.	01 56 27	
			F	G.W.	02.9	
		C.G.	ePE	W.A.	01 36 26	ΔP-H = 64°3
						Δmeas = 64°2
466	Dec. 25	S.L.	ePZ	M.S.	17 35 14	Andes of Chile or Argentina. Possibly deeper than normal.
			iPZ	M.S.	17 35 15	
			iZ	M.S.	17 35 22	
			iZ	M.S.	17 35 27	
467	Dec. 27	S.L.	eP'E	S.	05 00 04	Region of: 6°S., 150°E.
			ePR_1E	S.	05 00 48	H = $04^h41^m04^s$.
			eSKSE	S.	05 06 56	ΔPS-H = 117°3
			eSKKSE	S.	05 08 12	Δmeas = 117°2
			ePSE	S.	05 10 42	
			iPPSE	S.	05 11 57	
			eSR_1E	S.	05 16 58	
			eLN	S.	05 30.5	
			F	S.	07.8	
		Fl.	ePR_1E	G.W.	05 00 46	ΔPS-H = 116°9
			eE	G.W.	05 06 39	Δmeas = 117°0
			iSKSE	G.W.	05 06 54	
			iSKKSE	G.W.	05 08 09	
			ePSE	G.W.	05 10 38	
			ePPSE	G.W.	05 11 56	
			eLN	G.W.	05 30.5	
			F	G.W.	07.4	
468	Dec. 27	S.L.	ePZ	M.S.	14 29 56	
			iPZ	M.S.	14 29 57	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
469	Dec. 28	S.L.	iP'Z	M.S.	18 07 34	Region of: 6°S., 151°E.
			ePR$_1$Z	M.S.	18 08 42	H = 17^{h}48^{m}52^s.
			eSKPN	S.	18 09 59	ΔPS-H = 116°.6
			ePR$_2$N	S.	18 11 52	Δ_{meas} = 116°.5
			eSKSN	S.	18 14 39	
			iSKKSN	S.	18 15 57	
			ePSN	S.	18 18 23	
			iPSN	S.	18 18 31	
			iPPSN	S.	18 19 14	
			iPPPSN	S.	18 20 22	
			F	S.	Lost	
		Fl.	eP'E	W.A.	18 07 33	ΔPS-H = 116°.5
			ePR$_1$E	W.A.	18 08 42	Δ_{meas} = 116°.4
			iSKPN	G.W.	18 09 58	
			ePR$_2$N	G.W.	18 11 49	
			eSKSN	G.W.	18 14 38	
			iSKKSN	G.W.	18 15 48	
			eSN	G.W.	18 16 39	
			iPSN	G.W.	18 18 22	
			ePSN	G.W.	18 18 32	
			ePPPSN	G.W.	18 20 22	
			F	G.W.	22.7	
		C.G.	eE	W.A.	18 09 10	ΔS-H = 117°.0
			e(SKS)E	W.A.	18 14 42	Δ_{meas} = 117°.2
			eE	W.A.	18 16 12	
			eSE	W.A.	18 16 36	
			eE	W.A.	18 16 58	
			F	W.A.	20.3	
470	Dec. 29	S.L.	iPSZ	M.S.	10 19 58	South Pacific.
			eLN	S.	10 43.3	
			F	S.	12.0	
		Fl.	eLN	G.W.	10 45.7	
			F	G.W.	11.6	
471	Dec. 29	S.L.	iPR$_1$Z	M.S.	12 46 39	Region of: 6°S., 151°E.
			iZ	M.S.	12 47 02	H = 12^{h}26^{m}52^s.
						ΔPR$_1$-H = 116°.6
						Δ_{meas} = 116°.5
		Fl.	eLN	G.W.	13 20.8	
			F	G.W.	14.5	
472	Dec. 30	S.L.	iPR$_1$Z	M.S.	01 08 27	Region of: 6°S., 151°E.
			eSE	S.	01 16 20	H = 00^{h}48^{m}41^s
			ePSE	S.	01 18 13	ΔPR$_1$-H = 116°.5
			iSR$_1$N	S.	01 24 31	Δ_{meas} = 116°.5
			iSR$_2$N	S.	01 28 51	
			eLN	S.	01 37.9	
			F	S.	03 42 --	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
472 (Con't.)	Dec. 30	Fl.	iPR_1E	W.A.	01 08 25	ΔPR_1-H = 116°2
			iSKKSE	G.W.	01 15 17	Δmeas = 116°4
			iPSE	G.W.	01 18 11	
			eSR_1N	G.W.	01 24 31	
			eSR_2N	G.W.	01 28 48	
			eLN	G.W.	01 36.9	
			F	G.W.	03.5	
473	Dec. 31	S.L.	e(PS)N	S.	17 55 42	Region of: 6°S., 151°E.
			eSR_1N	S.	18 01 57	H = $17^h26^m02^s$.
			eLE	S.	18 18.6	ΔSR_1-H = 116°5
			F	S.	19.9	Δmeas = 116°5
		Fl.	eLE	G.W.	18 21.0	
			F	G.W.	19.6	

Minor Seismic Activity

December, 1945

Date	Station	From h m	To h m
December 7	S.L.	04 55	05 28
8	S.L.	05 00	05 41
8	C.G.	03 01	03 38
9	S.L.	23 28	23 30
9	C.G.	20 50	20 58
10	S.L.	11 17	11 42
11	S.L.	06 33	07 11
13	S.L.	23 06	23 16
26	C.G.	06 37	07 07
30	C.G.	01 47	02 05

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SEISMOLOGICAL BULLETIN

NOTICE OF NAME CHANGE

The Institute of Geophysical Technology of Saint Louis University was founded in 1944 for the purpose of satisfying the needs of students in new branches of engineering and technical fields. However the inclusion of Geology and of Geological Engineering, Industrial Engineering, and other kinds of engineering studies and fields of research under the name Geophysical Technology was felt by some to be capable of misinterpretation.

Taking cognizance of this possibility, the Board of Trustees of the University dropped the word GEOPHYSICAL from the name of the Institute in 1948 without in any way changing its character or decreasing the emphasis that it places on geophysical studies and research.

All seismological bulletins of the Institute commencing with the year 1946 will be identified by the title SAINT LOUIS UNIVERSITY, INSTITUTE OF TECHNOLOGY.

SUMMARY OF PRESENT STATUS OF THE BULLETINS
OF THE FOUR SEISMOGRAPH STATIONS OF THE
SAINT LOUIS UNIVERSITY GROUP

The data of all four stations, SAINT LOUIS, FLORISSANT, CAPE GIRARDEAU, and LITTLE ROCK, have been issued in the Seismological Bulletin of the Institute of Geophysical Technology for the years 1944 and 1945.

For 1946 and future years the data of the four stations will be issued in the Seismological Bulletin of the Institute of Technology.

For years prior to 1944, individual station bulletins were issued for each station. These individual station bulletins have been completed for SAINT LOUIS, FLORISSANT, and CAPE GIRARDEAU. The LITTLE ROCK bulletins for 1940, 1941, 1942, and 1943 will be completed as soon as possible.

February 1, 1949

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Director

Ross R. Heinrich
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