

SAINT LOUIS UNIVERSITY
INSTITUTE OF GEOPHYSICAL TECHNOLOGY

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

SEISMOLOGICAL BULLETIN

1.

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: 72°5' N., 68° W. H = 01 ^h 20.8 ^m $\Delta P-H = 35^{\circ}2$ $\Delta_{meas} = 35^{\circ}2$
			iZ	M.S.	01 28 55	
			iZ	M.S.	01 29 18	
			iZ	M.S.	01 29 25	
			iSN	S.	01 33 22	
			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	$\Delta P-H = 35^{\circ}0$ $\Delta_{meas} = 35^{\circ}1$
			iPE	G.W.	01 27 43	
			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: Probable Epicenter 14° 26' N., 88° 11' W. H = 19 ^h 40 ^m 10 ^s
			iZ	M.S.	19 46 12	
			e(S)N	M.S.	19 50 26	
			F	M.S.	20.3	
		Fl	eE	G.W.	19 50 53	
3	Jan. 5	S.L.	eSE	S.	06 33 03	P phases masked by microseisms
			eE	S.	06 36 37	
			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. H = 11 ^h 01.0 ^m
			eSE	S.	11 16 01	
			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. U.S.C.G.S. gives: Region: 12° S., 110° W.			
			eZ	M.S.	09 46 08				
			eSN	S.	09 53 40				
			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 22.5				
			F	G.W.	Lost				
12	Jan. 9	S.L.	iP'Z	M.S.	21 47 45	Very distant. No surface waves.			
			iZ	M.S.	21 48 11				
		Fl.	iP'Z	G.W.	21 47 45				
13	Jan. 11	S.L.	e(F)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: 35°0 N., 137°9 E. H = 18h38m30s ΔP-H = 94.92 Δ _{meas} = 94.92			
			iZ	M.S.	18 51 56				
			ePR ₁ Z	M.S.	18 55 39				
			e(SKS)N	S.	19 02 26				
			eSN	S.	19 03 03				
			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	
	S.				21.5				
F	S.				21.5				

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
16	Jan. 12	S.L.	iPZ	M.S.	22 04 29	Epicenter: 16°0 N., 93°3 W. $h = 100 \pm$ km. $h = 21^{\text{h}59^{\text{m}}34^{\text{s}}}$ $\Delta P-H = 22^{\circ}7$ $\Delta_{\text{meas}} = 22^{\circ}7$ $\Delta P-H = 23^{\circ}1$ $\Delta_{\text{meas}} = 22^{\circ}8$
			ipPZ	M.S.	22 04 50	
			eSN	S.	22 08 32	
			eSR ₁ N	S.	22 09 13	
			eLE ¹	S.	22 10.8	
		Fl.	ipZ	G.W.	22 04 32	
			epP	G.W.	22 04 51	
			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. Epicenter: 37° 48' N., 90° 08' W. $H = 01^{\text{h}}04^{\text{m}}34^{\text{s}}6$ $\Delta P^*-H = 57^{\circ}7$ miles $\Delta_{\text{meas}} = 58^{\circ}4$ miles $\Delta P^*-H = 70.13$ miles $\Delta_{\text{meas}} = 70$ miles $\Delta S^*-H = 47$ miles $\Delta_{\text{meas}} = 46.86$ miles
			S*E	W.A.	01 05 00.9	
			S*N	W.A.	01 05 01.1	
			LN	W.A.	01 05 06.3	
		Fl.	ip*N	W.A.	01 04 53.4	
			iN	W.A.	01 04 53.8	
			iS*E	W.A.	01 05 06.4	
			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	
		18	Jan. 16	Fl.	i(P)E	
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 U.S.C.G.S. gives: 57° N., 34° W.	
			eZ	M.S.	03 22 14		
			eSE	S.	03 26 50		
			eLE	S.	03 32.3		
			F	S.	Lost		
			Fl.	G.W.	03 22 12		
			eZ	G.W.	03 26 44		
			eSE	G.W.	03 32.8		
			eLE	G.W.			
24	Jan. 18	S.L.	iPZ	M.S.	03 53 02	U.S.C.G.S. gives 57° N., 34° W.	
			eSN	M.S.	03 59 15		
			eLN	M.S.	04 05.4		
			F	M.S.	Lost		
			Fl.	M.S.	04 05.5		
							eLE
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: 17° 42' N., 94° 07' W.	
			eZ	M.S.	18 11 20		
			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	Epicentral Region: 20°0 N., 70°6 W. H = 07 47.9	
			iPZ	M.S.	07 53 26		
			eSE	S.	07 57 59		
			iSN	S.	07 58 06		
			eLE	S.	08 00.5		
			F	S.	09.1		
			Fl.	eSE	G.W.		07 57 57
				eLE	G.W.		08 00.2
			F	G.W.	08.8		
		28	Jan. 23	S.L.	iZ		M.S.

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
29	Jan. 25	S.L.	iFZ	M.S.	00 41 10	U.S.C.G.S. gives: 66° N., 173° W.
			iZ	M.S.	00 41 28	
			eSR ₁ N	S.	00 52 10	
			eSR ₁ N	S.	00 52 32	
			LN	S.	00 59.1	
			F	S.	01.5	
		Fl.	ePN	W.A.	00 41 09	
			eSR ₁ N	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	Distant?
			eZ	M.S.	06 34 07	

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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No.	Date	Sta	Phase	Inst.	h m s	Remarks
31	February 1	S.L.	eE	S.	11 01 10	Probably deep. U.S.C.G.S. gives 22° S., 169° E.
			eE	S.	11 02 10	
			eE	S.	11 04 55	
			eE	S.	11 11 14	
			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 60° N., 147° 5' W.
			eE	S.	02 19.2	
			eLN	S.	02 25 0	
			F	S.	02.6	
34	Feb. 2	S.L.	ePZ	M.S.	21 45 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. Ecuador
			iZ	M.S.	23 35 28	
			iZ	M.S.	23 35 33	
			iSE	S.	23 41 25	
			eE	S.	23 44 20	
			Fl.	iZ	G.W.	
		iSE		G.W.	23 41 27	
		eE		G.W.	23 44 23	
		F		G.W.	00.3	
		36	Feb. 5	S.L.	iPZ	
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(S ₁)E	S.	19 22 07	
			F	S.	20.3	
				S.		

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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 = 4158 ^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 ₁ Z	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.	
		iZ		G.W.	05 14 00	
		iSN		G.W.	05 20 58	
		iSR ₁ N		G.W.	05 27 05	
		iN		G.W.	05 31 45	
		C.G.	F	G.W.	09.4	
			eSE	W.A.	05 21.2	
		41	Feb. 11	S.L.	ePZ	
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 S.W. of Azores H = 11 ^h 27.2 ^m
			eZ	M.S.	11 35 01	
			eSN	S.	11 41 16	
			eSR ₂ N	S.	11 44 17	
			F	S.	12.5	
		Fl.	eSN	G.W.	11 41 18	
			eSR ₂ N	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: 44°40'N., 115°04' W.
			iZ	M.S.	03 05 44	
			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: 8° N., 82°5' W. H = 06 ^h 46 ^m 30 ^s Δ _{meas} = 3193
			iZ	M.S.	06 52 57	
			eSE	S.	06 58 09	
			eE	S.	07 00 --	
			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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No.	Date	Sta	Phase	Inst.	h m s	Remarks	
49	Feb. 18	S.L.	ePZ	M.S.	10 20 50	Epicentral Region: 42°0 N., 143°8 E. H = 10 ^h 08 ^m 08 ^s ΔSR ₁ -H = 8691 Δ _{meas} = 8598 Probably deeper than normal	
			iZ	M.S.	10 20 58		
			iZ	M.S.	10 21 10		
			iZ	M.S.	10 21 30		
			iPR ₁ Z	M.S.	10 24 24		
			e(S)E	S.	10 31 15		
			iE	S.	10 31 26		
			eSR ₁ E	S.	10 37 15		
		F	S.	13.4			
		Fl.	iPZ	G.W.	10 20 48		ΔSR ₁ -H = 8597 Δ _{meas} = 8596
			iPR ₁ Z	G.W.	10 24 23		
			e(S)E	G.W.	10 31 12		
			i(S)E	G.W.	10 31 15		
			eSR ₁ E	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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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
59	Feb. 26	S.L.	ePZ	M.S.	22 28 05	Epicentral Region: 26° N., 114° E. H = 22 ^h 14 ^m 30 ^s $\Delta_{P-H} = 97.6$ $\Delta_{meas} = 97.9$ Probably deeper than normal
			eP ₁ Z	M.S.	22 32 11	
			eSKSE	S.	22 38 41	
			i(S)E	S.	22 39 50	
			eE	S.	22 43 40	
			eSR ₁ E	S.	22 45 58	
			eSR ₂ E	S.	22 50 26	
			L	S.	22 56 --	
			F	S.	01.5	
		Fl.	ePZ	G.W.	22 28 05	$\Delta_{P-H} = 97.6$ $\Delta_{meas} = 97.7$
			iZ	G.W.	22 32 30	
			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: 15°3 N., 95°2 W. Depth = 300 [±] km H = 07 ^h 16.8 ^m $\Delta_{P-H} = 23.98$ $\Delta_{meas} = 23.98$ $\Delta_{P-H} = 23.98$ $\Delta_{meas} = 23.99$
			ipPZ	M.S.	07 22 19	
			iSN	S.	07 25 53	
			i(sS)N	S.	07 27 06	
			F	S.	08.1	
		Fl.	iZ	G.W.	07 21 34	
			iSN	G.W.	07 25 55	
			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	Several shocks.
8	S.L.	14 24	16.6	
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 52 -- 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 eSR ₁ SE 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. $\Delta_{P-H} = 90^{\circ}3$ $\Delta_{meas} = 90^{\circ}2$
70	March 12	S.L.	iPZ	M.S.	10 34 40	
71	March 14	S.L. Fl.	iPZ eZ eSN iPN	M.S. M.S. S. W.A.	01 49 40 01 50 16 01 53 37 01 49 36	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: 7°0 N., 78°1 W. H = 23h57m53s $\Delta P-H = 33.96$ $\Delta_{meas} = 33.96$ Probably deeper than normal
			eZ	M.S.	00 04 57	
			ePR ₁ Z	M.S.	00 05 27	
			iZ	M.S.	00 05 58	
			eP _c PZ	M.S.	00 07 17	
			iSN	S.	00 09 58	
			e(SR ₁)N	S.	00 11 32	
			eLN	S.	00 14.3	
			F		Lost.	
		Fl.	iPZ	G.W.	00 04 38	$\Delta P-H = 33.97$ $\Delta_{meas} = 33.98$
			e(PR ₁)Z	G.W.	00 05 38	
			eZ	G.W.	00 07 00	
			eZ	G.W.	00 09 11	
			iSE	G.W.	00 10 01	
			e(S _c P)E	G.W.	00 11 06	
C.G.	eE	G.W.	00 13 23	$\Delta P-H = 32.91$ $\Delta_{meas} = 32.90$		
	eLE	G.W.	00 14 16			
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: 56°5 N., 156° W. H = 18h54.7m Probably deeper than normal
			i(pP)Z	M.S.	19 03 24	
			e(PR ₁)Z	M.S.	19 04 56	
			iSE	S.	19 09 56	
			eE	S.	19 10 10	
			eSR ₁ E	S.	19 13 02	
			eE	S.	19 13 39	
			eLE	S.	19 17 13	
			F	S.	20.5	
			Fl.	ePZ	G.W.	
		e(pP)Z		G.W.	19 03 23	
		e(PR ₁)Z		G.W.	19 04 48	
		iSE		G.W.	19 09 54	
		eSR ₁ E		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: 48°5 N., 29°1 W. H = 23 ^h 18 ^m 12 ^s ΔP-H = 44.94 Δmeas = 44.94	
			iZ	M.S.	23 26 35		
			eSN	S.	23 32 59		
			eSE	S.	23 33 02		
			e(SR ₁)E	S.	23 36 23		
			eLE	S.	23 39 44		
			F	S.	00.3		
			FL.	ePZ	G.W.		23 26 23
		ePR ₁ Z	G.W.	23 28 07			
		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.
73	March 20	S.L.	ePZ	M.S.	08 11 48	U.S.C.G.S. gives: H = 07 ^h 58 ^m 53 ^s Epicentral Region: 36°5 N., 34° E.	
			iPZ	M.S.	08 11 55		
			iZ	M.S.	08 12 05		
			eSKSE	S.	08 22 17		
			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. 61° S., 155°5 E	
			eZ	M.S.	23 36 32		
			ePR ₁ E	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 ₁ E	S.	23 54 14		
			eSR ₂ E	S.	23 58.5		

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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 ₁ E	G.W.	23 54.7		
			eSR ₂ E F	G.W.	23 58.7 02.3		
83	March 24	S.L.	ePZ	M.S.	14 29 57	Epicentral Region: 14°0 N., 92°3 W. H = 14 ^h 24 ^m 32 ^s ΔP-H = 25°0	
			iZ	M.S.	14 30 16		
			eSM	S.	14 34 27		
			eN	S.	14 35 20		
			F	S.	15.3		
		Fl.	ePN eSM F	W.A. G.W. G.W.	14 29(58) 14 34 32 Lost		ΔP-H = 25°1
84	March 24	S.L.	iPZ	M.S.	18 41 54	Weak.	
85	March 28	S.L.	iP ₁ E	W.A.	01 46 09.2	H = 20 ^h 45 ^m 57.9 ^s Epicenter: 38°25'N., 90°55'W. S ₁ -P ₁ = 6.95 sec. P ₁ -H = 10.8 sec. S ₁ -H = 17.8 sec. Distance = 40.1 mi.	
			iP ₁ N	W.A.	01 46 08.2		
			iS ₁ E	W.A.	01 46 16.1		
			iS ₁ N	W.A.	01 46 15.2		
		Fl.	iP ₁ E	W.A.	20 46 09.1		S ₁ -P ₁ = 6.9 sec. Distance = 40.07 mi.
			iP ₁ N	W.A.	20 46 09.11		
			iS ₁ E	W.A.	20 46 16		
			iS ₁ N	W.A.	20 46 16.11		
		C.G.	eS ₁ E	W.A.	20 46 45.4		S ₁ -H = 47.8 sec. Distance = 107.3 mi. For details, see <u>Trans.</u> , Am. Geo. Union, vol.26, no.III, pp.347-351, December, 1945.
			eS ₁ E	W.A.	20 46 46.3		
			iS ₁ N	W.A.	20 46 45.4		
86	March 31	Fl.	iPZ	G.W.	07 05 45		
			eE	G.W.	07 15 41		
			F	G.W.	06.3		
		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: 34°00' N., 120°01' W. H = 23 ^h 43 ^m 42 ^s . $\Delta P-H = 24.97$ $\Delta_{meas} = 24.97$			
			eZ	M.S.	23 50 27				
			eSE	S.	23 53 35				
			eLN	S.	23 56 27				
			M	S.	23 58.2				
			F	S.	00.6				
		Fl.	ePZ	G.W.	23 49 06		$\Delta P-H = 24.99$ $\Delta_{meas} = 24.96$		
			eSE	G.W.	23 53 31				
			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. H = 01 ^h 22 ^m 2 Depth: 50 + km.			
			ipPZ	M.S.	01 35 01				
			iZ	M.S.	01 36 44				
			e(S)E	S.	01 45 09				
			eSE	S.	01 45 19				
			e(sS)E	S.	01 45 44				
			eSR ₁ E	S.	01 51 02				
			esSR ₁ E	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 ₁ Z		G.W.	01 38 11				
		e(S)E		G.W.	01 45 09				
		iSE		G.W.	01 45 19				
		eSR ₁ E		G.W.	01 51 04				
			eLE	G.W.	02 02 --				
			F	G.W.	02.9				

No.	Date	Sta.	Phase	Inst.	h m s	Remarks			
96	April 11	S.L.	eE eLE F	S. S. S.	02 14.9 02 19.1 02 25 --				
		Fl.	eLE F	G.W. G.W.	02 20.6 Lost				
97	April 11	S.L.	eSE eLE F	S. S. S.	11 33 13 11 37.5 11.8	Pasadena gives: Roughly 42°N. , 125°W. $H = 11^{\text{h}}22^{\text{m}}4$			
		Fl.	eSE eLE	G.W. G.W.	11 33 15 11 37.8				
98	April 11	Fl.	eN e(L)N F	G.W. G.W. G.W.	16 06 33 16 10 -- Lost				
99	April 12	S.L.	iPZ iZ e(S)N	M.S. M.S. S.	00 28 20 00 28 29 00 34.1	West coast of Colombia?			
		Fl.	ePZ	G.W.	00 28 20				
100	April 12	S.L.	ePZ eN	M.S. S.	14 57 40 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 eE	S. S.	07 15 45 07 16 32				
			Fl.	eN eN	G.W. G.W.		07 15 46 07 16 33		
103	April 15	S.L.	ePZ iPZ i(PcP)Z iZ iPR ₁ Z i(PR ₂)Z iPR ₃ Z eSE iN eSR ₁ E F	M.S. M.S. M.S. M.S. M.S. M.S. M.S. S. S. S. S.	02 46 09 02 46 14 02 46 38 02 47 08 02 48 39 02 50 12 02 50 58 02 54 57 02 56 11 02 59 15 Lost	Epicenter: 57°N. , 164.3°E. $H = 02^{\text{h}}35^{\text{m}}26^{\text{s}}$ $\Delta\text{P-H} = 66^{\circ}1$ $\Delta_{\text{meas}} = 66^{\circ}0$			
			C.G.	ePE ePR ₁ E eSE F	W.A. W.A. W.A. W.A.		02 46(21) 02 48 57 02 55 14 03.6	$\Delta\text{P-H} = 67^{\circ}9$ $\Delta_{\text{meas}} = 67^{\circ}3$	

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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: 22°0 N., 107°2 W. H = 19 ^h 50 ^m 40 ^s $\Delta_{P-H} = 22^{\circ}0$ $\Delta_{meas} = 22^{\circ}0$	
			iPR ₁ Z	M.S.	19 55 57		
			iPR ₂ Z	M.S.	19 56 04		
			iZ	M.S.	19 56 35		
			iSE	S.	19 59 38		
			iZ	M.S.	20 02 10		
			iME	S.	20 02 20		
		F	S.	21.7			
		Fl.	ePZ	G.W.	19 55 36		$\Delta_{P-H} = 22^{\circ}1$
			iPR ₁ Z	G.W.	19 55 59		$\Delta_{meas} = 22^{\circ}0$
			iSE	G.W.	19 59 37		
		C.G.	ePN	W.A.	19 55 35		$\Delta_{meas} = 21^{\circ}3$
			ePR ₁ N	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: 19° S., 168° N. H = 13 ^h 04 ^m 00 ^s Possibly deeper than normal.	
			eSKSE	S.	13 29 14		
			ePSE	S.	13 32 30		
			eSR ₁ N	S.	13 38 30		
			eSR ₂ E	S.	13 43 10		
			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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No.	Date	Sta.	Phase	Inst.	h m s	Remarks		
112	April 21	S.L.	iPZ	M.S.	17 19 13	Tentative epicenter: 18°0N., 100°7 E. H = 17 ^h 14 ^m 19 ^s h = 100±km. Δ _{P-H} = 22°8 Δ _{meas} = 22°6		
			ipPZ	M.S.	17 19 30			
			isPE	S.	17 19 42			
			iSN	S.	17 23 10			
			isSN	S.	17 23 38			
			iLE	S.	17 25 44			
			F	S.	18.5			
		Fl.	ipN	G.W.	17 19 14	Δ _{P-H} = 22°7 Δ _{meas} = 22°6		
			ipPN	G.W.	17 19 30			
			iSN	G.W.	17 23 15			
			isSN	G.W.	17 23 47			
			eLN	G.W.	17 25.8			
		C.G.	F		18.5			
			ipN	W.A.	17 19 04	Δ _{P-H} = 21°7 Δ _{meas} = 21°4		
			ipPN	W.A.	17 19 24			
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. H = 09 ^h 45 ^m 41 ^s . Δ _{P-H} = 21°3 Δ _{meas} = 21°3		
			eSN	S.	09 54 26			
			eLE	S.	09 57 09			
			F	S.	11.9			
		Fl.	ePE	G.W.	09 50 27	Δ _{P-H} = 21°2 Δ _{meas} = 21°2		
			iPE	G.W.	09 50 28			
			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: 16°8 N., 94°5 W. H = 05 ^h 45 ^m 30 ^s h = 50±km. Δ _{P-H} = 22°1 Δ _{meas} = 22°1
					ipPZ	M.S.	05 50 43	
					eN	S.	05 54 52	
					F	S.	Lost.	
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: 41°3 S., 154°0 E. H = 06 ^h 22 ^m 43 ^s h = 200±km. Δ _{PR₁-H} = 113°1 Δ _{meas} = 113°1		
			epP'Z	M.S.	06 41 33			
			iPR ₁ Z	M.S.	06 41 44			
			ipPR ₁ Z	M.S.	06 42 22			
			eSKSE	S.	06 47 24			
			esSKSE	S.	06 48 37			
			eLE	S.	07.0			
			F	S.	09.2			

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
115 (Con't.)	April 23	Fl.	epP'E	W.A.	06 41 39	$\Delta_{pP'-H} = 112^{\circ}8$ $\Delta_{meas} = 112^{\circ}8$
			epPR ₁ E	G.W.	06 42 19	
			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.	eFZ	M.S.	21 06 27	Region of: $11^{\circ}N.$, $85^{\circ}W.$ $H = 21^h00^m33^s$ $\Delta_{p-H} = 27^{\circ}9$ $\Delta_{meas} = 27^{\circ}9$
121	April 30	S.L.	iPZ	M.S.	11 26 12	Epical Region: $50^{\circ}8'N.$, $150^{\circ}0' E.$ $H = 11^h15^m18^s$ $h = 500 \pm km.$ $\Delta_{p-H} = 76^{\circ}3$ $\Delta_{meas} = 76^{\circ}3$
			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.	
		eSE		G.W.	11 35 12	
		e(sS)E		G.W.	11 38 24	

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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: 22°S., 177°W. H = 17 ^h 27 ^m 30 ^s h = 600±km. Δ _{S-H} = 101 ^o 3 Δ _{meas} = 101 ^o 3 Δ _{S-H} = 101 ^o 0 Δ _{meas} = 101 ^o 2
			eSN	S.	17 51 12	
			isSN	S.	17 54 54	
			F	S.	20.2	
		Fl.	eSKSE	G.W.	17 50 00	
			eSE	G.W.	17 51 08	
			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	
	S.L.	15 40	15 47	
24	Fl.	15 41	15 49	
	S.L.	16 55	17 03	
25	Fl.	16 56	17 01	
	S.L.	04 14	06 45	
27	Fl.	04 09	06 19	
27	S.L.	07 22	07 31	
29	S.L.	03 00	04 00	

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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. H = 05 ^h 57 ^m .7 h = 150 [±] km.	
			iZ	M.S.	06 07 50		
			epPZ	M.S.	06 08 13		
			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 ₁ N	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: 55°N., 167°E. H = 07 ^h 54 ^m .2 Possibly deeper than normal.	
			eZ	M.S.	08 04 53		
			iZ	M.S.	08 04 59		
			eSN	S.	08 13 45		
			eE	S.	08 21 48		
			F	S.	09.2		
125	May 1	S.L.	iPZ	M.S.	16 46 21	31°8 S., 68°5 W. H = 16 ^h 35 ^m 07 ^s h = 150 [±] km. ΔP-H = 73°6 Δ _{meas} = 73°6 Felt in San Juan, Argentina, according to La Plata.	
			ipPZ	M.S.	16 46 47		
			isPZ	M.S.	16 46 59		
			iSN	S.	16 55 35		
			iN	S.	16 56 11		
			isSN	S.	16 56 25		
			iN	S.	16 56 37		
			eN	S.	16 59 46		
			eSR ₂ E	S.	17 03.9		
			F	S.	17.5		
			Fl.	iPZ	G.W.		16 46 21
				iZ	G.W.		16 46 23
				ipPZ	G.W.		16 46 50
		iSN		G.W.	16 55 37		
		eN		G.W.	16 56 16		
						ΔP-H = 73°6 Δ _{meas} = 73°7	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
126	May 2	S.L.	ePnN	W.A.	10 22 49.2	Local Shock. 36°27' N., 89°45' W. Felt in New Madrid and Marston, Missouri. H = 10 ^h 22 ^m 12 ^s .6
			eSnE	W.A.	10 23 16.9	
			iE	W.A.	10 23 17.9	
		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. South America?
			eZ	M.S.	18 11 39	
			eZ	M.S.	18 12 15	
			eN	S.	18 14 28	
128	May 2	S.L.	iPZ	M.S.	19 53 17	Region of : 41.5° N., 123° W. H = 19 ^h 47 ^m 7 ^s Reported felt in Northern California.
			eSE	S.	19 57 50	
			eLE	S.	20 02 25	
			eME	S.	20 03 46	
			F	S.	20.2	
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: 8° S., 124° E. H = 03 ^h 31 ^m 3 ^s h = 550 [±] km. Vertical not operating.
			eN	S.	03 52 28	
			ePR ₁ E	S.	03 53 05	
			epPR ₁ N	S.	03 55 04	
			eSKSE	S.	03 55 59	
			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.	
		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	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
135	May 10	S.L.	e(P)Z e(S)E e(SR ₂)E F	M.S. S. S. S.	02 24 24 02 30 44 02 34 03 03.1	Indefinite.
136	May 10	S.L.	ePZ ipPZ iSN isSN iScSE isScSE F	M.S. M.S. S. S. S. S. S.	18 02 45 18 02 53 18 10 20 18 10 33 18 12 31 18 12 46 Lost	14 ^o 0 S., 75 ^o 4 W. H = 17 ^h 53 ^m 26 ^s h = 50 ⁺ km. Δ _{P-H} = 54.0 Δ _{meas} = 54.6
		Fl.	ePZ ipPZ eSE esSE eScSE esScSE F	G.W. G.W. G.W. G.W. G.W. G.W. G.W.	18 02 46 18 02 54 18 10 23 18 10 34 18 12 33 18 12 45 19.4	Δ _{P-H} = 54.2 Δ _{meas} = 54.8
137	May 10	S.L.	eZ iZ	M.S. M.S.	18 37 31 18 37 56	May not be seismic.
138	May 11	S.L.	ePZ e(S)E F	M.S. S. S.	22 04 26 22 15 56 22.5	
139	May 12	S.L.	ePZ eMN F	M.S. S. S.	07 38 03 07 45 40 07 53.4	Pasadena gives: 31 ^o 6 N., 115 ^o 6 W. H = 07 ^h 33 ^m 0 "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 eSE iSE eLE iE i(M)E F	G.W. G.W. G.W. G.W. G.W. G.W. G.W.	20 32 22 20 36 17 20 36 24 20 38 23 20 38 49 20 39 05 21.8	Region of: 24 ^o N., 108 ^o W. H = 20 ^h 27 ^m 6
143	May 15	S.L.	e(F)Z iZ	M.S. M.S.	21 47 17 21 47 45	May not be seismic.
144	May 16	S.L.	eN eN F	S. S. S.	09 05 32 09 09 44 09.7	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
145	May 17	S.L.	eMN F	S. S.	15 20 02 15.5	Pasadena reports: H = 15 ^h 07 ^m 1 Minor damage at Hollister, California. 36°51'N., 121°24'W.
146	May 18	S.L.	iPZ eSE F	M.S. S. S.	23 47 56 23 57 59 24.7	Deep. No Surface. Epicentral Region: 44°4' N., 149°3' E. Assumed depth of Focus: 100 km. H = 23 ^h 35 ^m 50 ^s . $\Delta P-H = 81.97$ $\Delta_{meas} = 81.7$
147	May 19	S.L.	ePZ iPZ ipPZ iPR ₂ N iPcPN iSN ipSE isSE iSR ₁ N iSR ₂ N iScPE iScSE F	M.S. M.S. M.S. S. S. S. S. S. S. S. S. S. S. S.	08 00 57 08 00 59 08 01 24 08 01 48 08 04 20 08 05 18 08 05 44 08 06 00 08 06 26 08 06 42 08 08 09 08 12 08 10.1	16°1' N., 98°2' W. H = 07 ^h 55 ^m 56 ^s h = 100 ⁺ km. $\Delta P-H = 23.93$ $\Delta_{meas} = 23.93$
		Fl.	iPZ ipPZ iZ iPR ₂ Z i(pPR ₂)Z iSN F	G.W. G.W. G.W. G.W. G.W. G.W. G.W.	08 00 58 08 01 27 08 01 35 08 01 52 08 02 23 08 05 20 10 -- --	$\Delta P-H = 23.94$ $\Delta_{meas} = 23.94$
		C.G.	ePN eSN F	W.A. W.A. W.A.	08 00 46 08 05 05 08.4	$\Delta P-H = 22.93$ $\Delta_{meas} = 22.91$
148	May 19	S.L.	iPZ iSN iSR ₁ N iLN F	M.S. S. S. S. S.	15 12 56 15 17 39 15 18 50 15 20 05 18.1	40°2' N., 126°2' W. H = 15 ^h 07 ^m 03 ^s $\Delta P-H = 27.98$ $\Delta_{meas} = 27.98$
		Fl.	iPZ iSE F	G.W. G.W. G.W.	15 12 54 15 17 38 18 -- --	$\Delta P-H = 27.96$ $\Delta_{meas} = 27.96$
		C.G.	ePN eSN F	W.A. W.A. W.A.	15 13 10 15 17 58 15.7	$\Delta P-H = 29.94$ $\Delta_{meas} = 28.96$

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
149	May 20	S.L.	ePZ	M.S.	16 35 12	Epicenter near 24°N., 107°W. H = 16 ^h 30 ^m .3
			eSN	S.	16 39 12	
			eLN	S.	16 41 17	
			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(P'S)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? h = 60 [±] km.
			ipPZ	M.S.	18 24 59	
			eSE	S.	18 35 13	
			esSE	S.	18 35 35	
			eE	S.	18 41 43	
			F	S.	19.7	
			Fl.	eSE	G.W.	
			isSE	G.W.	18 35 37	
			F	G.W.	Lost	
		157	May 31	S.L.	e(P)Z	

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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. H = 15 ^h 13 ^m 40 ^s h = 100 [±] km. $\Delta P-H = 55^{\circ}7$ $\Delta_{meas} = 55^{\circ}8$ Remaining phases lost. $\Delta P-H = 55^{\circ}3$ $\Delta_{meas} = 55^{\circ}7$
			iZ	M.S.	15 23 13	
			i(pP)Z	M.S.	15 23 26	
			iSE	S.	15 30 41	
		Fl.	ePZ	G.W.	15 23 02	
			iSE	G.W.	15 30 39	
			e(ScS)E	G.W.	15 32 53	
			eSR ₁ E	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, according to Pasadena.
			F	G.W.	17 15.8	
161	June 1	S.L.	ePZ	M.S.	22 34 07	Region: 7°N., 35°5 W. H = 22 ^h 24 ^m 15 ^s .
			eZ	M.S.	22 34 15	
			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: 15°N., 97°W. H = 10 ^h 18 ^m 5
			eSN	S.	10 28 14	
			F	S.	10.7	
163	June 3	S.L.	ePN	W.A.	13 11 51	8°7 N., 82°0 W. H = 13 ^h 05 ^m 39 ^s h = 80 [±] km. $\Delta P-H = 30^{\circ}7$ $\Delta_{meas} = 30^{\circ}8$ Felt strongly in Chiriqui Province, Panama
			eN	W.A.	13 12 00	
			eE	W.A.	13 16 42	
			eSE	W.A.	13 16 55	
			F	W.A.	Lost	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
163 Con'tt.	June 3	Fl.	iPZ	G.W.	13 11 51	$\Delta_{P-H} = 30^{\circ}7$ $\Delta_{meas} = 30^{\circ}8$
			iPR ₁ Z	G.W.	13 12 52	
			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	$\Delta_{P-H} = 29^{\circ}1$ $\Delta_{meas} = 29^{\circ}1$
			eSE	W.A.	13 16 46	
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: 31°N., 78° E. H = 12 ^h 09 ^m 2 ^s
			eSKKSN	S.	12 35 06	
			eSN	S.	12 35 47	
			ePSN	S.	12 37 26	
			i(PPS)N	S.	12 38 44	
			eSR ₁ N	S.	12 42 56	
			F	S.	Lost	
			Fl.	ePSZ	G.W.	
		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 ₁ E	S.	16 06 30	
			eE	S.	16 07 19	
			eLE	S.	16 07 41	
			F	S.	16.5	
			Fl.	e(S)E	G.W.	
		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: 57°5 N., 27°8 W. H = 07 ^h 00 ^m 12 ^s Possibly slightly deeper than normal.
			eSN	S.	07 14 46	
			eSR ₁ N	S.	07 17 28	
			eSR ₂ N	S.	07 18 05	
			eMN	S.	07 22.5	
				S.	08.0	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
170 Con't.	June 6	Fl.	ePZ	G.W.	07 08 15	
			eSN	G.W.	07 14 45	
			F	G.W.	07.9	
171	June 7	S.L.	eN	W.A.	09 13 48	Reported felt locally.
172	June 7	S.L.	e(SKS)N	S.	12 13 17	South Pacific?
			cSR ₁ N	S.	12 20 17	
			eLN	S.	12 33 19	
			F	S.	13.7	
173	June 7	S.L.	e(P)Z	M.S.	20 08 34	
174	June 7	S.L.	iPZ	M.S.	20 21 57	Deep.
			ipPZ	M.S.	20 22 27	
175	June 8	S.L.	eLN	M.S.	22 40 32	
			F	M.S.	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	S.	16 22 20	
			eN	S.	16 22 55	
			eN	S.	16 25 12	
			eN	S.	16 29 12	
			eN	S.	16 31 10	
			eN	S.	16 35 28	
			e(L)N	S.	16 40.2	
		F	S.	18 -- --		
Fl.	eSE	G.W.	16 22 20			
	F	G.W.	18.0			
178	June 13	S.L.	ePZ	M.S.	14 12 14	Aftershock of # 163.
179	June 14	S.L.	e(P)Z	M.S.	00 03 40	
			eZ	M.S.	00 07 03	
			(K)	S.	00 51 --	
			F	S.	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	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
182	June 14	S.L.	ePZ eSN eN F	M.S. S. S. S.	03 36 07 03 40 11 03 42 24 03.9	Epicenter by Pasadena: 37°05' N., 117°30' W. H = 03 ^h 31 ^m 13 ^s "Magnitude = 5.0"	
		Fl.	eSN eN F	G.W. G.W. G.W.	03 40 16 03 42 14 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: 50°N., 30°W. H = 19 ^h 54 ^m 7	
			eSE	S.	20 09 39		
			eLN	S.	20 16.4		
			F	S.	20.7		
Fl.	eSE	G.W.	20 09 37	20.6			
	F	G.W.	20.6				
188	June 17	S.L.	iPZ	M.S.	16 48 05	Tacubaya gives: 18°12'N, 105°20'W.	
			eSN	S.	16 52 20		
			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		16 52 23 16 55 39 17.4
			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		

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
192	June 19	S.L.	iPZ eZ eZ	M.S. M.S. M.S.	17 43 58 17 44 05 17 44 16	Deep. No surface waves.
193	June 19	S.L.	e(P)Z iPZ ipPZ eSE	M.S. M.S. M.S. W.A.	17 54 11 17 54 14 17 54 57 18 02 16	Region: 16°S., 71°W. H = 17 ^h 44 ^m 4 ^s h = 200±km
		Fl.	ePZ eE eE eSE eE F	G.W. G.W. G.W. G.W. G.W. G.W.	17 54 16 17 54 32 18 00 17 18 02 20 18 03 11 18.2	
194	June 20	S.L.	ePZ iPZ eZ iSE eE eLE F	M.S. M.S. M.S. S. S. S. S.	01 35 45 01 35 47 01 36 16 01 45 38 01 49 06 02 00.2 04.2	47.7° N., 153.5° E. H = 01 ^h 23 ^m 58 ^s $\Delta_{P-H} = 76.7$ $\Delta_{meas} = 76.8$
		Fl.	ePZ iPZ eSE iSE F	G.W. G.W. G.W. G.W. G.W.	01 35 44 01 35 45 01 45 05 01 45 07 03.7	$\Delta_{P-H} = 76.4$ $\Delta_{meas} = 76.6$
195	June 20	S.L.	e(PR ₁)Z e(SKS)E eSKKSE ePSE eE e(SR ₁)E F	M.S. S. S. S. S. S. S.	09 08 56 09 14 39 09 16 06 09 18 57 09 19 21 09 24 46 11.4	Approximately: 5°S., 149°E. H = 08 ^h 49 ^m 3 ^s Felt in the Wewak-Wam area, New Guinea, according to Riverview.
		Fl.	eZ ePSE eLE F	G.W. G.W. G.W. G.W.	09 09 47 09 19 18 09 48 -- 11.2	
196	June 20	S.L.	e(L)E F	S. S.	12 26 51 13.2	
197	June 20	S.L.	ePZ iZ iZ eSN iSN e(SR ₂)E F	M.S. M.S. M.S. S. S. S. S.	17 47 07 17 47 19 17 47 56 17 56 59 17 57 02 18 05.3 21.0	Same Region as # 194. H = 17 ^h 35 ^m 18 ^s . Possibly deeper than normal.

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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: 47°6 S., 98°5 W. H = 01 ^h 07 ^m 10 ^s . Assumed h = 100 km. $\Delta P-H = 76^{\circ}4$ $\Delta_{meas} = 76^{\circ}5$ $\Delta P-H = 76^{\circ}4$ $\Delta_{meas} = 76^{\circ}6$
			eSE	S.	01 28 26	
			e(L)E	S.	01 38.7	
			F	S.	02.2	
		Fl.	ePZ	G.W.	01 18 47	
			eSE	G.W.	01 28 28	
			F	G.W.	02.1	
201	June 22	S.L.	iPZ	M.S.	09 30 57	45°0 N., 146°9 E. H = 09 ^h 18 ^m 48 ^s . h = 100±km. $\Delta P-H = 82^{\circ}1$ $\Delta_{meas} = 82^{\circ}0$
			iPZ	M.S.	09 31 17	
			iPcPZ	M.S.	09 31 28	
			iPcPZ	M.S.	09 31 46	
			iPR ₁ Z	M.S.	09 34 10	
			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	$\Delta P-H = 81^{\circ}9$ $\Delta_{meas} = 81^{\circ}9$
			iPZ	G.W.	09 30 56	
			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	
		C.G.	eSR ₁ N	G.W.	09 46 34	$\Delta P-H = 83^{\circ}5$ $\Delta_{meas} = 83^{\circ}3$
			F	G.W.	11.5	
			ePE	W.A.	09 31 04	
			iPE	W.A.	09 31 06	
			eE	W.A.	09 42 08	

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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. H = 18 ^h 01 ^m 02 ^s . Δ _{PR₁-H} = 107°1 Δ _{meas} = 106°9	
			ePR ₂ N	S.	18 21 58		
			iSKSN	S.	18 25 52		
			eSKKSN	S.	18 26 47		
			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
		eZ		G.W.	18 19 41		
		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: 35°6 S., 70°5 W. H = 19 ^h 58 ^m 00 ^s . h = 130 km. Δ _{P-H} = 76°0 Δ _{meas} = 76°6	
			ipPZ	M.S.	20 09 57		
			iPcPZ	M.S.	20 10 08		
			ePR ₁ Z	M.S.	20 12 22		
			iSE	S.	20 19 03		
			eN	S.	20 19 33		
			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
		epPE		W.A.	20 09 48		
		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
e(S)E	S.				08 16 34		
e(SR ₁)E	S.				08 19 06		
(S)E	S.				08 22 30		

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
208	June 25	S.L.	eSE	S.	16 09 31	--- Another shock?
			eE	S.	16 13 34	
			e(P)Z	M.S.	16 15 16	
			eLE	S.	16 23.5	
			F	S.	16.9	
209	June 25	S.L.	iPZ	M.S.	23 53 07	Epicentral Region: 48°0 N., 141°1 E. H = 23 ^h 40 ^m 18 ^s . h = 100±km. $\Delta_{P-H} = 90^{\circ}0$ $\Delta_{meas} = 90^{\circ}1$
			ipPZ	M.S.	23 53 26	
			eSN	S.	24 03 54	
210	June 26	S.L.	eZ	M.S.	02 06 39	Pacific coast of Chile. H = 01 ^h 54 ^m 8 Initial phase indefinite
			eSE	S.	02 14 25	
			eE	S.	02 16 37	
			F	S.	02.7	
211	June 26	S.L.	e(P)Z	M.S.	21 32 07	Indefinite beginning. Near Panama.
			e(L)E	S.	21 39.5	
			F	S.	21.8	
212	June 27	S.L.	ePZ	M.S.	13 13 04	27°3 N., 111°1 W. H = 13 ^h 08 ^m 25 ^s $\Delta_{P-H} = 20^{\circ}5$ $\Delta_{meas} = 20^{\circ}8$ Felt in Santa Rosalia, Lower California.
			iPR ₁ Z	M.S.	13 13 20	
			iPR ₂ E	S.	13 13 31	
			iSE	S.	13 16 59	
			eLE	S.	13 18 27	
			F	S.	17.0	
		Fl.	ePE	W.A.	13 13 03	$\Delta_{P-H} = 20^{\circ}4$ $\Delta_{meas} = 20^{\circ}7$
			eSN	W.A.	13 16 54	
			eLE	W.A.	13 18 24	
		C.G.	F	G.W.	16*	$\Delta_{P-H} = 20^{\circ}2$ $\Delta_{meas} = 20^{\circ}4$
			ePN	W.A.	13 13 01	
			eSE	W.A.	13 17 00	
			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	

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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	
			eLE	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.
			ehN	S.	20 07 27	
			F	S.	20.5	
216	June 28	S.L.	iPZ	M.S.	00 04 41	Deep? South America? --- Another shock?
			eZ	M.S.	00 05 25	
			eZ	M.S.	00 05 38	
			eZ	M.S.	00 05 47	
			c(P)Z	M.S.	00 12 12	
			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. H = 05 ^h 31 ^m 23 ^s $\Delta_{P-H} = 30^{\circ}7$ $\Delta_{meas} = 31^{\circ}1$
			iSE	S.	05 42 43	
			iSN	S.	05 42 50	
			iSR ₁ E	S.	05 44 18	
			iE	S.	05 45 30	
			F	S.	09.2	
		Fl.	iPZ	G.W.	05 37 40	

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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	
			e(S)E	S.	18 30 30	
			eLE	S.	18 32.5	
			F	S.	19.0	

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	May not be seismic.
18	S.L.	15 26.5	15 31.5	
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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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
226	July 1	S.L.	ePZ	M.S.	23 ^h 37 ^m 09 ^s	
227	July 2	S.L.	ePZ e(S)E	M.S. S.	08 36 18 08 40 39	20°7 N., 109°1 W. H = 08 ^h 31 ^m 02 ^s
			eS*N	S.	08 40 55	$\Delta P-H = 24.91$
			eN	S.	08 41 51	$\Delta_{meas} = 24.91$
			eLN	S.	08 43 49	
			F	S.	10.0	
		Fl.	e(S)E	G.W.	08 40 40	$\Delta S-H = 24.99$
			eSN	G.W.	08 40 53	$\Delta_{meas} = 24.92$
			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 eSN iLN F	M.S. S. S. S.	04 15 15 04 19 09 04 20 30 Lost	26°4 N., 110°4 W. H = 04 ^h 10 ^m 32 ^s $\Delta P-H = 20.99$ $\Delta_{meas} = 20.99$
		Fl.	ePZ eSE iME F	G.W. G.W. G.W. G.W.	04 15 15 04 19 10 04 21 28 Lost	$\Delta P-H = 20.99$ $\Delta_{meas} = 21.00$
		C.G.	eLE	W.A.	04 21 39	
230	July 3	S.L.	ePZ eSN eLN F	M.S. S. S. S.	04 59 45 05 03 40 05 06 02 Lost	Region of #229
		Fl.	eLE F	G.W. G.W.	05 06 11 Lost	
		C.G.	eLE	W.A.	05 05 --	

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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? Deep? No Surface Waves.
			eZ	M.S.	22 10 55	
			eSE	S.	22 20 28	
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. H = 10 ^h 18.0 ^m
			eSN	S.	10 27 56	
			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. H = 12 ^h 03.2 ^m
			eN	S.	12 09 42	
			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. H = 16 ^h 42 ^m 17 ^s $\Delta_{P-H} = 36.1$ $\Delta_{meas} = 36.1$ Reported felt in Western Colombia
			iPZ	M.S.	16 49 22	
			iPcPZ	M.S.	16 51 33	
			eSE	S.	16 55 09	
			eScPE	S.	16 55 47	
			i(SR ₂)E	S.	16 58 09	
			F	S.	17.9	
		Fl.	iPZ	G.W.	16 49 22	$\Delta_{P-H} = 36.2$ $\Delta_{meas} = 36.2$
			iPZ	G.W.	16 49 25	
			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 eSE	W.A. W.A.	16 49 10 16 54 42		$\Delta_{P-H} = 34.07$ $\Delta_{meas} = 34.07$	
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., 111°09 W. H = 00 ^h 30 ^m 50 ^s h = 75 km. $\Delta_{P-H} = 42.07$ $\Delta_{meas} = 42.07$		
			ipPZ	M.S.	00 38 56			
			iZ	M.S.	00 39 04			
			iPR ₁ Z	M.S.	00 40 39			
			iZ	M.S.	00 40 43			
			ipPR ₁ Z	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 ₁ E	S.	00 48 26			
			isSR ₁ N	S.	00 48 46			
			eLN	S.	00 53 12			
			F	S.	01.6			
			Fl.	ePZ	G.W.		00 38 40	$\Delta_{P-H} = 42.05$ $\Delta_{meas} = 42.05$
				ipPZ	G.W.		00 38 54	
				iZ	G.W.		00 39 02	
		ePR ₁ Z		G.W.	00 40 36			
		eSN		G.W.	00 45 05			
		eSR ₁ N		G.W.	00 48 22			
		isSR ₁ N		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 ₂ E	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			

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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. H = 05 ^h 35 ^m 07 ^s h = 150± km ΔSKS-H = 106°1 Δmeas = 106°0
			epPZ	M.S.	05 49 47	
			eZ	M.S.	05 52 36	
			eZ	M.S.	05 53 17	
			iPR ₁ Z	M.S.	05 53 51	
			ipPR ₁ Z	M.S.	05 54 20	
			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 Δmeas = 105°8
			ipPZ	G.W.	05 49 35	
			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 Δmeas = 107°2		
	eSKSE	W.A.	05 59 28			
	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. H = 06 ^h 47 ^m 05 ^s ΔP-H = 25°3 Δmeas = 25°3
			iPZ	M.S.	06 52 36	
			iSN	S.	06 57 03	
			eLN	S.	07 00 17	
			F	S.	07.9	
		Fl.	ePZ	G.W.	06 52 27	Time doubtful ΔS-P = 25°3 Δmeas = 25°4
			eN	G.W.	06 56 57	
			F	G.W.	07.6	
251	July 17	S.L.	ePZ	M.S.	11 03 55	

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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 F	G.W. G.W.	14 38 12 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 Possibly deep. $\Delta = \text{about } 143^{\circ}$	
			iZ	M.S.	04 14 21		
			ePR Z	M.S.	04 17 42		
			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 F		G.W. G.W.	04 30 29 06.5		
		256	July 24	S.L.	eS _n E		W.A.
iS*E	W.A.				09 01 41.2		
iE	W.A.				09 01 42.2		
eE	W.A.				09 01 44.9		
Fl.	e(P _n)N			W.A.	09 01 20.8	$\Delta_{S_n-H} = 143.7$ miles	
	eP*N			W.A.	09 01 23.2	$\Delta_{\text{meas}} = 143.8$ miles	
	eS _n E			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	$\Delta_{S_n-H} = 85.0$ miles	
	eS*E			W.A.	09 01 22.1	$\Delta_{\text{meas}} = 85.1$ miles	
	eSgE			W.A.	09 01 24.0		
257	July 26	S.L.	eP ₁ E	W.A.	10 34 21	34° 4 N., 81° 4 W. H = 10h32m17s $\Delta_{P_1-H} = 892$ $\Delta_{\text{meas}} = 892$ Felt in South Carolina, North Carolina.	
			eS ₁ E	W.A.	10 35 53		
			eS ₂ E	W.A.	10 36 42		
			F	W.A.	10 44 --		

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No.	Date	Sta..	Phase	Inst.	h m s	Remarks
257 (Con't.)	July 26 (Con't.)	C.G.	eS ₃ E	W.A.	10 35 48	$\Delta_{S_3-H} = 7^{\circ}6$ $\Delta_{meas} = 7^{\circ}5$
			eS ₂ E	W.A.	10 36 02	
			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. $\Delta_{S-P} = 21^{\circ}$
			eSE	S.	18 56 28	
			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	S.L.	20 55	21 04
	S.L.	00 50	00 55
	S.L.	11 14	13 00
	S.L.	20 16	20 17
	S.L.	21 02	21 20
	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. No surface waves. South America
			ipPZ	M.S.	11 56 44	
			eZ	M.S.	12 02 13	
			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.	eR Z	M.S.	22 42 23	Epicentral Region: 24°5' N., 122°3' E. H = 22 ^h 23 ^m 22 ^s $\Delta_{PR_1-H} = 110^{\circ}2$ $\Delta_{meas} = 110^{\circ}2$
			e(PS)N	S.	22 52 06	
			eN	S.	22 53 52	
			eSR N	S.	22 58 26	
			eLN	S.	23 14 41	
			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 H = 17 ^h 52.3 ^m
			ePR ₁ Z	M.S.	18 11 48	
			eSKKSE	S.	18 18 39	
			eSE	S.	18 19 33	
			ePSE	S.	18 21 17	
			eSR ₁ E	S.	18 27 44	
			F	S.	20.1	
			Fl.	ePR ₁ Z	G.W.	
		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. H = 20 ^h 44 ^m 45 ^s $\Delta_{P-H} = 32^{\circ}3$ $\Delta_{meas} = 32^{\circ}3$
			iPR ₁ Z	M.S.	20 52 27	
			eSN	S.	20 56 37	
			iSN	S.	20 56 48	
			iSR ₁ E	S.	20 58 33	
			iLE	S.	21 00 30	
			F	S.	23.0	
			Fl.	ePZ	G.W.	
		ePR ₁ Z		G.W.	20 52 23	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
267 (Con't.)	Aug. 2	C.G.	eE	W.A.	20 52 42	$\Delta_{\text{meas}} = 33^{\circ}5$
			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: 5 ⁰⁹ N., 81 ⁰⁹ W. H = 04 ^h 11 ^m 29 ^s . $\Delta_{\text{P-H}} = 33^{\circ}1$ $\Delta_{\text{meas}} = 33^{\circ}8$
			ePR ₁ N	S.	04 19 00	
			iSE	S.	04 23 32	
			iE	S.	04 26 26	
			F	S.	06.2	
		Fl.	ePZ	G.W.	04 18 10	$\Delta_{\text{P-H}} = 33^{\circ}2$ $\Delta_{\text{meas}} = 34^{\circ}0$
			eSE	G.W.	04 23 34	
			eSR ₁ E	G.W.	04 26 30	
		C.G.	F	G.W.	06.0	$\Delta_{\text{P-H}} = 31^{\circ}6$ $\Delta_{\text{meas}} = 32^{\circ}2$
				W.A.	04 17 56	
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 ⁰² N., 17 ⁰¹ W. H = 14 ^h 48 ^m 20 ^s . $\Delta_{\text{P-H}} = 80^{\circ}0$ $\Delta_{\text{meas}} = 79^{\circ}9$
			eSKSN	S.	15 10 23	
			eSN	S.	15 10 43	
			eSKKSN	S.	15 10 58	
			ePSN	S.	15 11 15	
			eMN	S.	15 23.0	
			F	S.	16.4	
		Fl.	ePZ	G.W.	15 00 29	$\Delta_{\text{P-H}} = 80^{\circ}4$ $\Delta_{\text{meas}} = 80^{\circ}0$
			eSKSN	G.W.	15 10 23	
			eSE	G.W.	15 10 44	
			eSKKSN	G.W.	15 10 58	
			ePSE	G.W.	15 11 13	
				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. 36 ⁰² 4' N., 89 ⁰⁰ 5' W. $\Delta_{\text{Sn-H}} = 166.7$ miles. $\Delta_{\text{meas}} = 166.4$ miles. $\Delta_{\text{Sn-H}} = 179.0$ miles. $\Delta_{\text{meas}} = 179.9$ miles. $\Delta_{\text{S*-H}} = 68.3$ miles. $\Delta_{\text{meas}} = 67.9$ miles. Felt at Caruthersville.
			eN	W.A.	23 52 53.5	
			eSnE	W.A.	23 53 22.4	
		Fl.	e(Pn)N	W.A.	23 52 55.2	
			eSnN	W.A.	23 53 26.9	
		C.G.	iS*E	W.A.	23 52 44.0	

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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. H = 22 ^h 08.0 ^m				
			eSKKSE	S.	22 32 20					
			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: 11°1' N., 93°0' W. H = 09 ^h 53 ^m 45 ^s $\Delta_{PR1-H} = 129^{\circ}8$ $\Delta_{meas} = 130^{\circ}2$
							ePR ₁ ZN	M.S.	10 15 03	
eSKPZN	S.	10 16 12								
iN	S.	10 16 22								
eZ	M.S.	10 16 32								
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 ₁ E	S.	10 32 23								
eE	S.	10 34 45								
e(PR ₁)E	S.	10 35 11								
e(X)E	S.	10 44.3								
F	S.	12.7								
Fl.	eP'Z	G.W.	10 12 52	$\Delta_{PS-H} = 129^{\circ}6$ $\Delta_{meas} = 130^{\circ}1$						
	ePR ₁ Z	G.W.	10 14 59							
	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 ₁ E	G.W.	10 32 17							
	eE	G.W.	10 34 37							
F	G.W.	Lost								
C.G.	eSKPE	W.A.	10 16 17	$\Delta_{SKP-H} = 131^{\circ}4$ $\Delta_{meas} = 131^{\circ}9$						
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 ipPN iPR ₁ N eSN iSN isSN eLN F	M.S. S. S. S. S. S. S. S.	11 25 24 11 25 33 11 25 51 11 29 36 11 29 43 11 29 54 11 32 14 12.9	15.9 N., 88.9 W. H = 11 20 20 h = 50 km. $\Delta_{P-H} = 23.1$ $\Delta_{meas} = 23.1$
		Fl.	iPZ ipPZ iSN isSN F	G.W. G.W. G.W. G.W. G.W.	11 25 25 11 25 34 11 29 46 11 30 00 Lost	$\Delta_{P-H} = 23.2$ $\Delta_{meas} = 23.2$
		C.G.	ePE eSE eE F	W.A. W.A. W.A. W.A.	11 25 10 11 28 56 11 29 16 11.8	$\Delta_{P-H} = 21.98$ $\Delta_{meas} = 21.97$
277	Aug. 10	S.L.	ePZ iPZ eSN iSN i(sS)N eLE F	M.S. M.S. S. S. S. S. S.	14 14 11 14 14 13 14 18 26 14 18 31 14 18 45 14 21 13 14.8	Aftershock of #276
		Fl.	ePZ eSN F	G.W. G.W. G.W.	14 14 13 14 18 24 14.8	
278	Aug. 11	S.L.	iPZ iZ eZ cN iSN F	M.S. M.S. M.S. S. S. S.	00 40 20 00 40 23 00 41 44 00 44 09 00 45 45 02.8	Epicentral Region: 79.1 N., 81.96 W. H = 00 ^h 33 ^m 52 ^s $\Delta_{P-H} = 31.97$ $\Delta_{meas} = 32.94$
		Fl.	ePZ ePR ₁ Z iSE F	G.W. G.W. G.W. G.W.	00 40 22 00 41 28 00 45 48 02.4	$\Delta_{P-H} = 32.90$ $\Delta_{meas} = 32.6$
		C.G.	ePE eE eSE F	W.A. W.A. W.A. W.A.	00 40 08 00 40 21 00 45 19 00.8	$\Delta_{P-H} = 30.94$ $\Delta_{meas} = 31.0$

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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: 30° N., 138° W. H = 08h33.0m
			eZ	M.S.	08 46 5	
			eSKSN	S.	08 57 12	
			eSKKSN	S.	08 57 52	
			eSN	S.	08 58 12	
			eSR ₁ E	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 Δ about 49°
			eLE	S.	03 46 53	
			F	S.	04.1	
282	Aug. 14	S.L.	i(P')Z	M.S.	08 14 09	Deep Two shocks? No surface waves.
			i(PR ₁)Z	M.S.	08 16 50	
			eZ	M.S.	08 17 16	
			eZ	M.S.	08 17 36	
283	Aug. 14	S.L.	ePR ₁ Z	M.S.	12 29 06	26°8 N., 130°0 E. H = 12 ^h 10 ^m 50 ^s Δ _{PS-H} = 105°5 Δ _{meas} = 105°0
			eZ	M.S.	12 30 00	
			eSKSN	S.	12 35 36	
			e(S)E	S.	12 37 26	
			ePSN	S.	12 38 26	
			ePPSN	S.	12 39 38	
			eN	S.	12 42 58	
			F	S.	Lost	
		Fl.	ePR ₁ Z	G.W.	12 29 16	Δ _{PR₁-H} = 105°5 Δ _{meas} = 104°9 S phases lost changing records
			e(SP)Z	G.W.	12 38 15	
			e(L)Z	G.W.	12 56.1	
			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? Δ = about 98°
			eSKKSN	S.	14 40 34	
			ePSE	S.	14 42 15	
			eSR ₁ N	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: 33°1 N., 116°1 W. H = 17 ^h 56.4 ^m Magnitude 5.7
			iPZ	M.S.	18 01 20	
			eSN	S.	18 05 28	
			eE	S.	18 07 10	
			F	S.		

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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 H = 19 ^h 04.5 ^m h = 50 [±] Km
			epPZ	M.S.	19 13 40	
			ePR ₁ Z	M.S.	17 15 24	
			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 ^h 30.6 ^m
296	Aug. 19	S.L.	iPZ	M.S.	07 38 38	Central America
					10 22 27	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
298	Aug. 21	S.L.	eMN F	S S.	05 06 45 05.2	
299	Aug. 21	S.L.	iPZ eZ eE eE	M.S. M.S. S. S.	10 20 18 10 22 59 10 29 31 10 33 07	Deep. Sea of Japan?
		Fl	ePZ e(S)E e(PS)E e(sS)E	G.W. G.W. G.W. G.W.	10 19 17 10 28 52 10 29 28 10 33 06	
		C.G.	e(S)E	W.A.	10 29 01	
300	Aug. 21	S.L.	iPZ iZ ipPZ iZ iSN e(sS)E eN F	M.S. M.S. M.S. M.S. S. S. S. S.	16 38 25 16 38 41 16 38 53 16 39 22 16 45 31 16 46 16 16 50 45 17.5	Time uncertain 10°1 S., 74°0 W. h = 150± km H = 16 ^h 29 ^m 44 ^s Δ _{meas} = 51.04
		Fl.	iPZ ipPZ eSE esSE F	G.W. G.W. G.W. G.W. G.W.	16 38 29 16 38 58 16 45 34 16 46 25 17.3	Δ _{P-H} = 51.0 Δ _{meas} = 51.05
		C.G.	ePE epPE eE eE F	W.A. W.A. W.A. W.A. W.A.	16 38 17 16 38 44 16 43 33 16 44 06 16 48 --	
301	Aug. 21	S.L.	iPZ	M.S.	16 48 07	Time uncertain
302	Aug. 21	S.L.	ePR ₁ E eSKSE eSKKSE eSE ePSE SR ₁ E F	S. S. S. S. S. S. S.	20 21 47 20 27 49 20 28 57 20 29 36 20 31 21 20 37 -- 23.1	Time uncertain New Hebrides Δ about 110°
		Fl.	ePR Z eSKSE eSKKSE	G.W. G.W. G.W.	20 21 49 20 27 55 20 28 53	

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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 South Pacific		
			eE	S.	05 32 18			
			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 H = 09 ^h 15.6 ^m		
			eSN	S.	09 26 18			
			eMN	S.	09 32.6			
			F	S.	Lost			
305	Aug. 24	S.L.	ePZ	M.S.	09 43 02	Central America H = 09 ^h 37.3 ^m		
			eZ	M.S.	09 43 15			
			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 22°9 N., 143°5 E. H = 07 ^h 34 ^m 45 ^s h = 100± km Δ _{meas} = 10190		
			eZ	M.S.	07 53 03			
			iSKSN	S.	07 59 12			
			isSKSN	S.	07 59 48			
			eSN	S.	08 00 10			
			esSN	S.	08 00 45			
			eSR ₁ N	S.	08 06 50			
			F	S.	Lost			
			Fl.	eZ	G.W.		07 55 44	Δ _{SKS-H} = 10187 Δ _{meas} = 10089
				eSKSN	G.W.		07 58 53	
		esSKSN		G.W.	07 59 30			
		eSN		G.W.	07 59 55			
			eE	G.W.	08 00 21			
			eSR ₁ N	G.W.	08 06 28			
F	G.W.		Lost					
308	Aug. 27	S.L.	eZ	M.S.	09 18 50	Time doubtful Felt in San Francisco, according to Pasadena		
			iLN	S.	09 26 51			
			F	S.	10.0			
		Fl.	eLN	G.W.	09 26 21			
			F	G.W.	09.7			

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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. H = 16 ^h 26 ^m 48 ^s Possibly deeper than normal. $\Delta P-H = 84.7$ $\Delta_{meas} = 85.1$
			eZ	M.S.	16 39 59	
			eSE	S.	16 49 41	
			e(PS)E	S.	16 50 50	
			eE	S.	16 51 59	
			eE	S.	16 52 43	
310	Aug. 28	S.L.	ePZ	M.S.	19 34 36	Japan H = 19 ^h 21.3 ^m
			eZ	M.S.	19 34 50	
			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: 15°4 S., 168°9 E. H = 10 ^h 22 ^m 44 ^s $\Delta P-H = 107.2$ $\Delta_{meas} = 107.7$
			eP'Z	M.S.	10 40 29	
			iPR ₁ Z	M.S.	10 41 42	
			ePR ₂ Z	M.S.	10 44 06	
			iE	S.	10 48 58	
			iSE	S.	10 49 14	
			eE	S.	10 49 47	
			iPSE	S.	10 50 58	
			iSR ₁ E	S.	10 56 23	
			F	S.	Lost	
		Fl.	ePZ	G.W.	10 37 00	
			iZ	G.W.	10 37 19	
			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	Time doubtful $\Delta_{meas} = 107.6$
			eZ	M.S.	15 23 09	
			eZ	M.S.	15 24 19	
			eE	S.	15 39 05	
			eE	S.	15 40 11	

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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		To	
		h	m	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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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
318	Sept. 1	S.L.	eP'Z	M.S.	23 03 10	Epicentral Region: 45°2 S., 166°7 E. H = 22 ^h 44 ^m 17 ^s $\Delta_{PR_1-H} = 124.9$ $\Delta_{meas} = 124.9$
			iPR ₁ Z	M.S.	23 05 02	
			iZ	M.S.	23 05 14	
			eSKPE	S.	23 06 23	
			eE	S.	23 09 21	
			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.	
		e(PR ₁)Z		G.W.	23 04 51	
		iPR ₁ Z		G.W.	23 05 01	
		e(SKPE)		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. H = 11 ^h 54 ^m 05 ^s h = 100 [±] km. $\Delta_{P-H} = 88.1$ $\Delta_{meas} = 88.1$
			i(PcP)Z	M.S.	12 06 57	
			ipPZ	M.S.	12 07 04	
			i(pPcP)Z	M.S.	12 07 15	
			iZ	M.S.	12 08 43	
			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	

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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	$\Delta_{P-H} = 88^{\circ}1$ $\Delta_{meas} = 88^{\circ}2$		
			ipPZ	G.W.	12 07 03			
			ePR ₁ Z	G.W.	12 10 11			
			epPR ₁ Z	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: 3°7 S., 19°2 W. H = 12 ^h 59 ^m 08 ^s . $\Delta_{P-H} = 78^{\circ}0$ $\Delta_{meas} = 77^{\circ}9$		
			eSE	S.	13 20 56			
			e(SR ₁)E	S.	13 25.3			
			F	S.	Lost			
321	Sept. 3	S.L.	e(P)Z	M.S.	16 36 29	Time uncertain. South America.		
			eZ	M.S.	16 36 50			
322	Sept. 3	S.L.	iPZ	M.S.	19 42 06	Region: 34°S., 67°W. H = 19 ^h 30 ^m 7 ^s h = 60±km.		
			epPZ	M.S.	19 42 18			
			eSE	S.	19 51 33			
			esSE	S.	19 51 55			
323	Sept. 4	S.L.	e(S)N	S.	17 42 13	Southwest coast of New Zealand. H = 17 ^h 14 ^m 3 ^s		
			ePPSN	S.	17 45 09			
			e(SR ₂)N	S.	17 54 56			
			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: 6° S., 155° E. H = 21 ^h 48 ^m 49 ^s $\Delta_{PR_1-H} = 113^{\circ}7$ $\Delta_{meas} = 113^{\circ}5$		
			ePR ₁ Z	M.S.	22 08 14			
			iZ	M.S.	22 09 11			
			eSKSE	S.	22 14 09			
			eSKKSE	S.	22 15 24			
			eSE	S.	22 16 15			
			iPSE	S.	22 18 06			
			iE	S.	22 24 57			
			F	S.	Lost			
			Fl.	ePR ₁ Z	G.W.		22 08 10	$\Delta_{PR_1-H} = 113^{\circ}0$ $\Delta_{meas} = 113^{\circ}2$
				iSKSE	G.W.		22 14 11	
		iSKKSE		G.W.	22 15 20			
			iPSE	G.W.	22 18 04			

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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 ₁ Z	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. H = 15 ^h 48 ^m 28 ^s h = 100+ km. Δ _{P-H} = 78°8 Δ _{meas} = 78°9
			ipPZ	M.S.	16 00 42	
			eSN	S.	16 10 07	
			e(sS)N	S.	16 10 45	
			e(PS)N	S.	16 11 13	
331	Sept. 8	S.L.	e(PR ₁)Z	M.S.	03 55 20	
			cZ	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. H = 04 ^h 02 ^m 50 ^s h = about 50 km.
			ePR ₁ E	S.	04 22 01	
			eSKSE	S.	04 28 04	
			eSKKSE	S.	04 29 10	
				S.	04 29 23	

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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. H = 12 ^h 56 ^m 28 ^s . h = 100 km. ΔP-H = 54.95 Δ _{meas} = 54.03
			ipPZ	M.S.	13 06 03	
			iZ	M.S.	13 06 12	
			e(S)E	S.	13 13 13	
			e(sS)E	S.	13 13 51	
			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: Tonga Region. h = 530km.
			e(sS)E	S.	19 38 06	
		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.	iFZ	M.S.	11 28 41	32°9' S., 70°3' W. H = 11 ^h 17 ^m 20 ^s h = 100±km. ΔP-H = 73.97 Δ _{meas} = 73.97 Felt in Santiago, Chile.
			ipPZ	M.S.	11 29 06	
			iN	S.	11 30 32	
			iN	S.	11 30 53	
			ePR ₁ N	S.	11 31 22	
			iPR ₂ Z	M.S.	11 33 23	
			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	

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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 ₁ N	S.	11 43.0											
			iSR ₂ N	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	$\Delta P-H = 73^{\circ}3$ $\Delta_{meas} = 73^{\circ}8$								
		ipPZ		G.W.	11 29 03											
		iZ		G.W.	11 30 52											
		iPR ₁ Z		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 ₁ N		G.W.	11 43 04											
		F		G.W.	Lost											
		C.G.	ePN	W.A.	11 28 31		$\Delta P-H = 72^{\circ}3$ $\Delta_{meas} = 72^{\circ}1$									
epPN	W.A.		11 28 54													
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: 7 ^o 6 N., 39 ^o 3 W. H = 02 ^h 02 ^m 39 ^s h = 90+km. $\Delta P-H = 55^{\circ}6$ $\Delta_{meas} = 55^{\circ}5$										
			e(pP)Z	M.S.	02 12 26											
			ePR ₂ E	S.	02 15 15											
			eSE	S.	02 19 52											
			iSE	S.	02 19 57											
			iN	S.	02 20 20											
			iSR ₁ E	S.	02 23 49											
			iLN	S.	02 26 24											
			F	S.	05.0											
			C.G.	ePE	W.A.		02 12 04	$\Delta P-H = 54^{\circ}8$ $\Delta_{meas} = 54^{\circ}8$								
		eSE		W.A.	02 19 44											
		F		W.A.	02.9											
		343		Sept. 14	S.L.		iFZ		M.S.	20 40 42						
												344	Sept. 15	C.G.	eNE	W.A.
			345					Sept. 16								
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 ₂)E	S.	01 02 14														

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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: 42°5' N., 114°2' E. H = 12 ^h 28 ^m 06 ^s h = 80 [±] km. ΔP-H = 85°2 Δ _{meas} = 85°2	
			iPZ	M.S.	12 40 34		
			ipPZ	M.S.	12 40 48		
			iZ	M.S.	12 41 18		
			iZ	M.S.	12 41 35		
			eZ	M.S.	12 42 19		
			ePR ₁ Z	M.S.	12 43 41		
			e(pPR ₁)Z	M.S.	12 44 05		
			eZ	M.S.	12 44 55		
			ePR ₂ Z	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 ₁ N	S.	12 56 33		
			F	S.	Lost		
		Fl.	ePZ	G.W.	12 40 31		ΔP-H = 85°1
			iPZ	G.W.	12 40 33		Δ _{meas} = 85°0
			ipPZ	G.W.	12 40 46		Remaining phases lost changing records.
			iPR ₁ Z	G.W.	12 43 50		
			ipPR ₁ Z	G.W.	12 44 03		
			eSZ	G.W.	12 50 55		
		C.G.	eE	W.A.	12 41 38		Δ _{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 ₁ E	S.	09 29 43	Epicentral Region: 2°8' S., 114°5' E. H = 09 ^h 09 ^m 49 ^s . ΔPR ₁ -H = 117°6 Δ _{meas} = 117°3	
			eE	S.	09 30 43		
			eSKSE	S.	09 35 34		
			eSKKSE	S.	09 36 52		
			eSN	S.	09 37 35		
			e(PS)E	S.	09 39 38		
			ePFSN	S.	09 40 29		
			e(PPPS)E	S.	09 40 57		
			eE	S.	09 42 37		
			eE	S.	09 50 27		

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
350 (Con't.)	Sept. 22	Fl.	eZ	G.W.	09 29 17	$\Delta_{PR_1-H} = 117^{\circ}5$ $\Delta_{meas} = 117^{\circ}2$
			ePR ₁ Z	G.W.	09 29 42	
			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. The agreement on this quake is very poor, the epicenter very tentative. 36°02' N., 89°47' W.
			iN	W.A.	07 24 08.2	
			iN	W.A.	07 24 10.5	
			iSnN	W.A.	07 24 39.2	
			iN	W.A.	07 24 42.4	
		Fl.	iPnN	W.A.	07 24 08.5	
			iN	W.A.	07 24 11.6	
			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	$\Delta = \text{about } 51^{\circ}$
			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 Felt in Idaho, Montana, Washington; according to Pasadena.
			eSN	S.	10 06 05	
			e(SR ₁)Z	M.S.	10 06 55	
			i(L)Z	M.S.	10 08 01	
			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. H = 15 ^h 34 ^m 7 Felt at Peiping, accord- ing to Pehpei.
			e(L)E	S.	16 17.1	
			F	S.	Lost	
355	Sept. 23	S.L.	iPZ	M.S.	17 25 56	19°0 N., 104°8 W. H = 17 ^h 20 ^m 46 ^s $\Delta_{P-H} = 23^{\circ}5$ $\Delta_{meas} = 23^{\circ}5$
			iZ	M.S.	17 26 05	
			iPR ₁ Z	M.S.	17 26 22	

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355 (Cont.)	Sept. 23	Fl.	ePE	W.A.	17 25 57	$\Delta P-H = 23^{\circ}6$ $\Delta_{meas} = 23^{\circ}6$					
			iSE	G.W.	17 30 14						
			iSR ₁ E	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: 54°N., 162° W. H = 03 ^h 37 ^m 32 ^s Possibly deeper than normal. $\Delta P-H = 49^{\circ}9$ $\Delta_{meas} = 49^{\circ}9$					
			eSE	S.	03 53 38						
			eE	S.	03 57 48						
			eLE	S.	04 01 23						
			F	S.	04.9						
			Fl.	eSE	G.W.		03 53 35	$\Delta S-H = 49^{\circ}6$ $\Delta_{meas} = 49^{\circ}8$			
		e(N)E		G.W.	04 05 37						
		F		G.W.	04.6						
		359		Sept. 26	S.L.		e(P)Z		M.S.	09 05 25	Greater Antilles. Weston gives: H = 09 ^h 00 ^m 13 ^s
							iZ		M.S.	09 06 01	
							eME		S.	09 14 00	
			360				Sept. 26	S.L.	iPZ	M.S.	
iZ	M.S.					14 33 15					
eZ	M.S.					14 33 20					
iZ	M.S.	14 33 36									
iPR ₁ Z	M.S.	14 33 45									
eSE	S.	14 38 01									
eSR ₂ E	S.	14 39 45									
eME	S.	14 41 47									
F	S.	16.0									
Fl.	ePE	W.A.		14 33 06	$\Delta P-H = 29^{\circ}4$ $\Delta_{meas} = 29^{\circ}8$						
	ePR ₁ E	W.A.		14 33 48							
	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						
(SP)E				S.	23 33 51						
F				S.	23.0						

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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. H = 22 ^h 24 ^m 08 ^s Δ _{P-H} = 28°1 Δ _{meas} = 28°2 Pasadena gives: magnitude 6	
			iPZ	M.S.	22 30 03		
			iZ	M.S.	22 30 10		
			eSE	S.	22 34 41		
			iSE	S.	22 34 47		
			eLE	S.	22 38.0		
			iME	S.	22 39 48		
			F	S.	01.7		
		Fl.	ePZ	G.W.	22 29 56		Δ _{P-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		
		C.G.	ePE	W.A.	22 30 09		Δ _{P-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. H = 04 ^h 27 ^m 48 ^s h = 50 km. Δ _{P-H} = 45°8 Δ _{meas} = 46°1	
			epPZ	M.S.	04 36 20		
			eSE	S.	04 42 51		
			eSR ₁ E	S.	04 46 03		
			F	S.	Lost		
366	Sept. 29	S.L.	eSKSE	S.	05 08 04	Off Southwest coast of Samoa. Apia reports: iP - 04 44 46 iS - 04 45 08	
			eSKKSE	S.	05 08 43		
			eLE	S.	05 28 17		
			F	S.	06.0		
		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: 29°1 N., 65°5 E. H = 05 ^h 16 ^m 43 ^s . ΔP-H = 109°5 Δ _{meas} = 109°2		
			eSKKSN	S.	05 42 43			
			ePSN	S.	05 45 05			
			ePPSN	S.	05 45 58			
			eMN	S.	06 17.2			
			F	S.	07.0			
		Fl.	ePR ₁ Z	G.W.	05 36 06	Time probably + 30 sec. too much - time correc- tion doubtful. Δ _{meas} = 109°1		
			eSKSN	G.W.	05 42 19			
			eSKKSN	G.W.	05 43 13			
			ePSN	G.W.	05 45 34			
			e(PPS)N	G.W.	05 46 43			
			eMN F	G.W. G.W.	06 20.3 06.9			
369	Oct. 2	S.L.	iPZ	M.S.	22 50 12	Region of: 14°S., 70°W. H = 22 ^h 40 ^m 48 ^s . Assumed depth of focus = 150 km. ΔP-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. H = 06 ^h 19 ^m 28 ^s . h = 50 [±] km. ΔP-H = 26°3 Δ _{meas} = 26°3
					eSN	S.	06 29 36	
eLN	S.	07 02.5						
F	S.	07 57 --						
Fl.	e(P)N	W.A.	06 25 52	Time doubtful. Δ _{meas} = 26°4				
	e(S)Z	G.W.	06 30 41					
	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. H = 23 ^h 17 ^m 28 ^s . h = 100 [±] km. ΔP-H = 26°0		
			epPZ	M.S.	23 23 13			
			iPR ₁ Z	M.S.	23 23 41			
			iPR ₂ Z	M.S.	23 23 52			
			iPR ₃ Z	M.S.	23 23 52			

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
373	Oct. 6	S.L.	iP'Z	M.S.	09 31 30	Region of: 2° S., 139° E. H = 09 ^h 12 ^m 33 ^s . $\Delta P-H = 123^{\circ}0$ $\Delta_{meas} = 123^{\circ}0$
			ePSE	S.	09 43 14	
			ePPSE	S.	09 44 25	
			eME	S.	10 15.5	
			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: 12°8 N., 89°2 W. H = 13 ^h 23 ^m 27 ^s . h = 50 ⁺ km. $\Delta P-H = 26^{\circ}2$ $\Delta_{meas} = 26^{\circ}2$
			ipPZ	M.S.	13 29 10	
			iSN	S.	13 33 38	
			isSN	S.	13 33 56	
			eLN	S.	13 36.8	
			F	S.	Lost	
		C.G.	iPE	W.A.	13 28 52	$\Delta P-H = 25^{\circ}4$ $\Delta_{meas} = 24^{\circ}6$
			eSE	W.A.	13 33 13	
			F	W.A.	13.9	
376	Oct. 9	S.L.	iPZ	M.S.	14 48 49	Epicentral Region: 14 ^h 00 N., 147 ^h 05 E. H = 14 ^h 36 ^m 39 ^s . h = 100 ⁺ km. $\Delta P-H = 82^{\circ}7$ $\Delta_{meas} = 82^{\circ}7$
			ipPZ	M.S.	14 49 09	
			iSN	S.	14 59 02	
			isSN	S.	14 59 36	
			iSR ₁ N	S.	15 04 27	
			iSR ₂ N	S.	15 07 47	
			iN	S.	15 10 35	
			iLN	S.	15 14 35	
			F	S.	17.5	
377	Oct. 11	S.L.	ePH	W.A.	16 57 41	Epicentral Region: 18°3 N., 97°5 W. H = 16 ^h 52 ^m 54 ^s . h = 50 ⁺ km. $\Delta P-H = 21^{\circ}5$ $\Delta_{meas} = 21^{\circ}5$
			ipPN	S.	16 57 52	
			iPR ₁ N	S.	16 58 05	
			iSN	S.	17 01 36	
			isSN	S.	17 01 58	
			iSR ₁ N	S.	17 02 12	
			eLN	S.	17 04 16	
			F	S.	17.5	
		C.G.	eFN	W.A.	16 57 31	$\Delta P-H = 20^{\circ}7$ $\Delta_{meas} = 20^{\circ}4$
			eSE	W.A.	17 01 17	
F	W.A.	17.1				
378	Oct. 13	S.L.	ePZ	M.S.	00 46 01	
379	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	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
380	Oct. 14	S.L.	ePZ	M.S.	04 20 25	Region of: 15° S., 173° W. H = 04 ^h 07 ^m 10 ^s . $\Delta P-H = 93^{\circ}6$ $\Delta_{meas} = 93^{\circ}9$	
			eZ	M.S.	04 20 36		
			eSKSE	S.	04 30 59		
			eSKKSE	S.	04 31 21		
			eSE	S.	04 31 55		
			eLE	S.	04.7		
			F	S.	06.0		
			Fl.	ePZ	G.W.		04 20 23
		eSKSE		G.W.	04 31 00		$\Delta_{meas} = 93^{\circ}8$
		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: 58°3 N., 135°3 W. H = 08 ^h 01 ^m 33 ^s . $\Delta P-H = 35^{\circ}0$ $\Delta_{meas} = 35^{\circ}0$	
			ePR ₁ E	W.A.	08 09 37		
			eSN	S.	08 14 08		
			eLN	S.	08 18 49		
			F	S.	09.2		
382	Oct. 16	S.L.	eP'Z	M.S.	16 22 08	Region of: 0°N., 125°E. H = 16 ^h 03 ^m 03 ^s . h = 100±km. $\Delta PS-H = 130^{\circ}2$ $\Delta_{meas} = 130^{\circ}1$	
			iP'Z	M.S.	16 22 09		
			iPR ₁ Z	M.S.	16 24 19		
			iSKPZ	M.S.	16 25 24		
			iSKKSE	S.	16 31 13		
			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 ₁ Z	M.S.	00 39 50		
			eSE	S.	00 43 57		
			iSR ₁ E	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		

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387	Oct. 21	S.L.	eP ₁ Z ePR ₁ Z ePSN iPPSE eLN F	M.S. M.S. S. S. S. S.	03 39 45 03 40 24 03 49 51 03 50 49 04 -- -- 06.2	Epicentral Region: 23°5' N., 120°0' E. H = 03 ^h 21 ^m 08 ^s . ΔP-H = 111.8 Δ _{meas} = 111.8
388	Oct. 21	S.L.	ePZ eN F	M.S. S. S.	12 58 23 13 08 39 13 15 --	
389	Oct. 21	S.L.	eZ eZ	M.S. M.S.	15 57 47 15 57 58	Indefinite beginning.
390	Oct. 24	S.L.	iPZ iZ iZ	M.S. M.S. M.S.	05 20 38 05 28 57 05 29 06	
391	Oct. 25	S.L.	eZ iZ iN eLN F	M.S. M.S. S. S. S.	08 53 15 08 53 19 09 01 50 09 07.0 09.6	Indefinite beginning.
392	Oct. 25	S.L.	iPZ iZ iZ iSN F	M.S. M.S. M.S. S. S.	15 09 30 15 09 57 15 10 06 15 18 20 Lost	Epicentral Region: 57°4' N., 163°6' E. H = 14 ^h 58 ^m 47 ^s . ΔP-H = 66.1 Δ _{meas} = 66.1
		C.G.	ePE eE	W.A. W.A.	15 10 39 15 10 44	Time doubtful. Δ _{meas} = 67.4
393	Oct. 25	S.L.	iPZ iSE F	M.S. S. S.	15 12 53 15 21 43 Lost	Aftershock of # 392.
394	Oct. 25	S.L.	iPZ iSN F	M.S. S. S.	15 13 46 15 22 37 Lost	Aftershock of # 392.
395	Oct. 25	S.L.	eZ eZ	M.S. M.S.	15 37 53 15 38 10	Indefinite beginning.
396	Oct. 25	S.L.	ePZ iPZ	M.S. M.S.	16 54 43 16 54 46	Aftershock of # 392.
397	Oct. 25	S.L.	iPZ iZ	M.S. M.S.	17 50 40 17 50 47	Aftershock of # 392.

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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 = 13 ^h 56 ^m 40 ^s . $\Delta P-H = 85^{\circ}7$ $\Delta_{meas} = 85^{\circ}7$
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 in Point Pleasant, Mo.
		C.G.	eSE	W.A.	10 42 17.3	
404	Oct. 27	S.L.	iPZ ipPZ iPR ₁ Z ipPR ₁ Z 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 = 11 ^h 24 ^m 24 ^s . h = 100±km. $\Delta P-H = 23^{\circ}7$ $\Delta_{meas} = 23^{\circ}7$
		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 --	$\Delta P-H = 22^{\circ}8$ $\Delta_{meas} = 22^{\circ}3$
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 = 05 ^h 37 ^m 48 ^s . h = 200±km. $\Delta P-H = 108^{\circ}3$ $\Delta_{meas} = 108^{\circ}1$
407	Oct. 28	S.L.	iPZ eF	M.S. S.	08 14 57 08 30 06	

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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 iFR ₁ Z iSE eSR ₁ N isSR ₁ E eLE F	M.S. M.S. M.S. 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 ^h 54 ^m 28 ^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

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
420 (Con't.)	Nov. 8	Fl.	iPZ	G.W.	09 14 18	$\Delta_{PR_1-H} = 50^{\circ}4$ $\Delta_{meas} = 50^{\circ}4$
			iPR ₁ Z	G.W.	09 16 13	
			iSN	G.W.	09 21 21	
			iSR ₁ N	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 ₁ Z	M.S.	10 13 29	
			eSN	S.	10 18 38	
			eSR ₁ N	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 ₁ Z	G.W.	10 13 26	
			iSN	G.W.	10 18 52	
			iSR ₁ N	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 F	W.A. W.A.	09 00 48 Lost	Local?
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	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
435	Nov. 18	S.L.	iPZ	M.S.	01 11 42	Epicentral region: 38°3 N., 111°6 W. H = 01 ^h 07 ^m 44 ^s . ΔP-H = 17°0 Δ _{meas} = 17°0 Reported felt in Rich- field, Glenwood, and Monroe in Sevier Co., Utah, by Pasadena.
			ePR ₁ Z	M.S.	01 11 56	
			eSZ	M.S.	01 15 04	
			iLZ	M.S.	01 16 10	
436	Nov. 20	S.L.	eLE F	S. S.	04 08 15 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. H = 18 ^h 07 ^m 16 ^s . ΔP-H = 23°6 Δ _{meas} = 23°7
			iPZ	M.S.	18 12 28	
			eSN	S.	18 16 52	
			eSR ₁ E	S.	18 17 47	
			eLE	S.	18 22 07	
			F	S.	19.0	
		Fl.	ePN	W.A.	18 12 27	ΔP-H = 23°6 Δ _{meas} = 23°8
			iPN	W.A.	18 12 28	
			eSN	G.W.	18 16 54	
			eSR ₁ N	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: 20°4 N., 67°5 W. H = 15 ^h 19 ^m 07 ^s . ΔP-H = 27°1 Δ _{meas} = 27°1
			iPZ	M.S.	15 24 57	
			ePR ₂ Z	M.S.	15 25 53	
			eSN	S.	15 29 29	
			eLN	S.	15 32 12	
			eMN	S.	15 34 45	
			F	S.	16.4	
			Fl.	ePN	W.A.	
ePR ₁ N	W.A.	15 25 36				
eSE	G.W.	15 29 46				
eLE F	G.W. G.W.	15 32 56 Lost				
440	Nov. 24	S.L.	eLE F	S. S.	03 05 14 03.7	
441	Nov. 25	S.L.	ePZ	M.S.	03 29 50	
			iPZ	M.S.	03 29 52	
			ePR ₁ Z	M.S.	03 30 01	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
441 (Con't.)	Nov. 25	Fl.	e(P)N	W.A.	03 29 56	Very weak.
			eZ	W.A.	03 30 07	
			F	W.A.	Lost	
442	Nov. 26	Fl.	iPN	W.A.	01 12 27	Region of: 8°5' S., 74°2' W. H = 01 ^h 04 ^m 40 ^s Probably deeper than normal. $\Delta P-H = 49^{\circ}8$ $\Delta_{meas} = 49^{\circ}8$
			iSN	G.W.	01 18 47	
			eSR ₁ N	G.W.	01 21 04	
			F	G.W.	Lost	
443	Nov. 26	S.L.	ePZ	M.S.	04 42 53	Along the Pacific coast of Mexico.
			eSN	S.	04 47 16	
			F	S.	Lost	
444	Nov. 26	S.L.	ePZ	M.S.	05 26 06	Epicentral region: 22°4' S., 179°1' W. H = 05 ^h 13 ^m 10 ^s . h = 550 km. $\Delta S-P = 103^{\circ}0$ $\Delta_{meas} = 102^{\circ}9$
			iPR ₁ Z	M.S.	05 30 28	
			iSKSE	S.	05 35 47	
			iSKKSN	S.	05 36 34	
			eSN	S.	05 37 06	
			esSKSE	S.	05 39 48	
			isSN	S.	05 41 05	
			iSR ₁ N	S.	05 44 27	
			eLN	S.	05 51 57	
		F	S.	06.6		
		Fl.	iPR ₁ E	G.W.	05 30 27	$\Delta_{SKS-H} = 102^{\circ}8$ $\Delta_{meas} = 102^{\circ}8$
			iSKSE	G.W.	05 35 49	
			iSKKSE	G.W.	05 36 33	
			eSN	G.W.	05 37 05	
			isSKSE	G.W.	05 39 49	
			esSN	G.W.	05 41 03	
			eSR ₁ N	G.W.	05 44 25	
F	G.W.		06.6			
445	Nov. 27	S.L.	ePZ	W.A.	05 41 53	Kamchatka. Deep?
			iPZ	W.A.	05 41 54	
			eSE	S.	05 50 41	
			eSR ₁ E	S.	05 54 58	
			eLN	S.	06 03 24	
		F	S.	06.5		
Fl.	eSE	G.W.	05 50 39			
eLE	G.W.	06 05 22				
F	G.W.	06.5				
446	Nov. 27	S.L.	ePN	W.A.	08 59 25	Deep?
			eN	W.A.	08 59 33	
			F	W.A.	Lost	
447	Nov. 27	S.L.	ePZ	M.S.	10 17 27	Mexico.

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

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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. H = 01 ^h 04 ^m 00 ^s . Probably deep. $\Delta_{PS-H} = 116^{\circ}9$ $\Delta_{meas} = 116^{\circ}5$
			eP'Z	M.S.	01 22 48	
			ePR ₁ E	S.	01 23 54	
			eE	S.	01 30 02	
			eSKKSE	S.	01 30 53	
			iSE	S.	01 31 30	
			iPSE	S.	01 33 34	
			ePPSE	S.	01 35 04	
			eSR ₁ E	S.	01 39 48	
			eSR ₂ E	S.	01 44 23	
			F	S.	04.4	
			Fl.	ePR ₁ Z	G.W.	
		iE		G.W.	01 29 02	
		iE		G.W.	01 30 02	
		eSKKSE		G.W.	01 30 48	
		iE		G.W.	01 32 38	
		eSR ₁ E		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.
iPZ	M.S.				06 20 39	
ipPZ	M.S.				06 21 01	
457	Dec. 9	S.L.	ePZ	M.S.	20 51 08	14°0 N., 92°3 W. H = 20 ^h 45 ^m 46 ^s . $\Delta_{P-H} = 24^{\circ}7$ $\Delta_{meas} = 24^{\circ}7$
			eN	S.	20 53 11	
			iSN	S.	20 55 40	
			iSPN	S.	20 56 04	
			iE	S.	20 56 19	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks			
457 (Con't.)	Dec. 9	Fl.	ePN	W.A.	20 51 11	$\Delta_{P-H} = 25^{\circ}0$ $\Delta_{meas} = 24^{\circ}9$			
			eSPN	G.W.	20 56 07				
			iE	G.W.	20 56 23				
			eSR ₁ N	G.W.	20 56 54				
			eSR ₂ N	G.W.	20 57 07				
			F	G.W.	21.9				
458	Dec. 14	S.L.	iPZ	M.S.	17 34 37	Region of $4^{\circ}5'S.$, $79^{\circ}W.$ $H = 17^h26^m40^s.$ $h = 150$ km.			
			ipPZ	M.S.	17 35 07				
			iSN	S.	17 40 51				
			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: $7^{\circ}9' N.$, $127^{\circ}4' E.$ $H = 03^h59^m12^s.$ $\Delta_{PR_1-H} = 122^{\circ}8$ $\Delta_{meas} = 122^{\circ}5$			
			ePR ₁ N	S.	04 19 42				
			eN	S.	04 27 10				
			iN	S.	04 28 35				
			iSR ₁ E	S.	04 36 15				
			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: $10^{\circ}7' N.$, $62^{\circ}3' W.$ $H = 08^h10^m05^s.$ $h = 100 \pm$ km. $\Delta_{P-H} = 37^{\circ}4$ $\Delta_{meas} = 37^{\circ}6$						
	Dec. 23	S.L.	ipZ	M.S.	08 17 12				
			ipPZ	M.S.	08 17 25				
			iSN	S.	08 22 57				
			esSN	S.	08 23 31				
			iSR ₁ N	S.	08 25 43				
			eLN	S.	08 27 59				
			F	S.	09.7				
			C.G.	iPN	W.A.		08 17 02	$\Delta_{P-H} = 36^{\circ}2$ $\Delta_{meas} = 36^{\circ}4$	
ipPE	W.A.	08 17 15							

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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. H = 17 ^h 48 ^m 52 ^s . $\Delta_{PS-H} = 116^{\circ}6$ $\Delta_{meas} = 116^{\circ}5$		
			ePR ₁ Z	M.S.	18 08 42			
			eSKPN	S.	18 09 59			
			ePR ₂ N	S.	18 11 52			
			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	$\Delta_{PS-H} = 116^{\circ}5$ $\Delta_{meas} = 116^{\circ}4$
				ePR ₁ E	W.A.		18 08 42	
				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	$\Delta_{S-H} = 117^{\circ}0$ $\Delta_{meas} = 117^{\circ}2$	
			e(SKS)E	W.A.	18 14 42			
			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. H = 12 ^h 26 ^m 52 ^s . $\Delta_{PR_1-H} = 116^{\circ}6$ $\Delta_{meas} = 116^{\circ}5$		
			iZ	M.S.	12 47 02			
		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. H = 00 ^h 48 ^m 41 ^s $\Delta_{PR_1-H} = 116^{\circ}5$		
			eSE	S.	01 16 20			
			ePSE	S.	01 18 13			

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
472 (Con't.)	Dec. 30	Fl.	iPR ₁ E	W.A.	01 08 25	$\Delta_{PR_1-H} = 116^{\circ}2$ $\Delta_{meas} = 116^{\circ}4$	
			iSKKSE	G.W.	01 15 17		
			iPSE	G.W.	01 18 11		
			eSR ₁ N	G.W.	01 24 31		
			eSR ₂ N	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. H = 17 ^h 26 ^m 02 ^s . $\Delta_{SR_1-H} = 116^{\circ}5$ $\Delta_{meas} = 116^{\circ}5$	
			eSR ₁ N	S.	18 01 57		
			eLE	S.	18 18.6		
			F	S.	19.9		
		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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SAINT LOUIS UNIVERSITY

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INSTITUTE OF GEOPHYSICAL TECHNOLOGY
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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

J. B. Macelwane, S. J.
Director

Ross R. Heinrich
Associate Professor