

SAINT LOUIS UNIVERSITY
 INSTITUTE OF GEOPHYSICAL TECHNOLOGY

2.

 Seismological Bulletin for the month of January, 1944.

No.	Date	Sta	Phase	Inst	h m s	Remarks
1	Jan. 1	S.L.	(e)N	S.	16 30 29	
2	Jan. 3	S.L.	eLE	S.	10 34 23	
3	Jan. 4	S.L.	ePZ eZ eSE e(SR ₁)E eLN F	M.S. M.S. S. S. S. S.	01 04 11 01 04 23 01 09 21 01 10 21 01 13 03 01 39.5	$\Delta_{P-H} = 30^{\circ}6$ $\Delta_{meas} = 30^{\circ}8$ H = 00 ^h 57 ^m 53 ^s Epicentral Region: 12 ^o 8 N., 71.4 W.
4	Jan. 5	S.L.	(e)Z	M.S.	04 17 58	
5	Jan. 5	S.L.	iZ	M.S.	07 56 45.5	
6	Jan. 5	S.L.	iPZ iZ iSN eN eL F	M.S. M.S. S. S. S. S.	11 05 28.5 11 05 33.5 11 10 33.5 11 12 58.5 11 14.9 12 21.5	$\Delta_{P-H} = 30^{\circ}2$ $\Delta_{meas} = 30^{\circ}9$ H = 10 ^h 59 ^m 14 ^s Epicentral Region: 12 ^o 8 N., 71 ^o 4 W.
	Jan. 5	C.G.	ePN	W.A.	11 05 15	
7	Jan. 5	S.L.	eP'Z iP'Z iZ iZ iPR ₁ Z i(SKKS)Z i(PSKS)N eN i(FPS)N eN i(SR ₁)N (sSR ₁)N iSR ₂ N eLN FN	M.S. M.S. M.S. M.S. M.S. M.S. S. S. S. S. S. S. S. S. S. S.	21 32 12 21 32 15 21 32 28 21 32 35 21 35 22 21 36 19 21 45 56 21 47 21 21 48 19 21 49 05 21 53 50 21 54 54 21 59 29 22 04 -- 23 48 --	$\Delta_{PR_1-H} = 143^{\circ}2$ $\Delta_{meas} = 143^{\circ}5$ H = 21 ^h 13 ^m 01 ^s Epicentral Region: 3 ^o 5 S., 101 ^o 7 E. Depth of Focus: 125±km.
	Jan. 5	C.G.	eP'N eN	W.A. W.A.	21 32 18 21 33 20	
8	Jan. 6	S.L.	iPZ iZ eZ eSN eLN	M.S. M.S. M.S. S. S.	16 53 34 16 53 43 16 57 51 17 01 12 17 13 --	$\Delta_{P-H} = 54^{\circ}8$ $\Delta_{meas} = 55^{\circ}3$ H = 16 ^h 14 ^m 07 ^s Epicenter: 15 ^o S., 75 ^o 5 W.

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9	Jan. 7	S.L.	ePR ₁ Z	M.S.	03 09 25	New Guinea. Deep.
			iPR ₁ Z	M.S.	03 09 30	
			epPR ₁ Z	M.S.	03 09 57	
			eE	S.	03 10 27	
			iSKSE	S.	03 14 51	
			eE	S.	03 15 49	
			eSKKSE	S.	03 16 15	
			eSPE	S.	03 19 20	
			eL F	S. S.	03 20 -- 05 02 --	
	Jan. 7	Fl.			Time Uncertain.	
10	Jan. 7	Fl.		W.A.	05 22 --	Time Uncertain.
	Jan. 7	C.G.	iPN	W.A.	05 18 20.8	Local
			iSN	W.A.	05 18 23	
Jan. 7	S.L.	iE	W.A.	05 18 57		
11	Jan. 8	S.L.	eZ	M.S.	10 16 14	
			eLE	S.	10 29 --	
12	Jan. 8	S.L.	eZ eL	M.S. S.	19 36 12.5 20 08 --	
	Jan. 8	Fl.			Time Uncertain	
13	Jan. 10	S.L.	ePZ	M.S.	04 33 53	
14	Jan. 10	S.L.	iPZ	M.S.	20 15 01	$\Delta_{P-H} = 23^{\circ}3$ $\Delta_{meas} = 23^{\circ}3$ H = 20h09m56s Epicentral Region: 17°1 N., 100°3 W. Slightly deep.
			ipPZ	M.S.	20 15 08	
			iSN	S.	20 19 13	
			isSN	S.	20 19 27	
	Jan. 10	C.G.	iPN	W.A.	20 14 52	$\Delta_{P-H} = 22^{\circ}2$ $\Delta_{meas} = 22^{\circ}2$
			iSN	W.A.	20 19 09	
	Jan. 10	Fl.	iPZ	G.W.	20 15 03	$\Delta_{P-H} = 23^{\circ}2$ $\Delta_{meas} = 23^{\circ}4$
			ipN	W.A.	20 15 10	
			iSZ isSZ	G.W. G.W.	20 19 16 20 19 28	
15	Jan. 10	S.L.	iPZ	M.S.	20 38 32	Aftershock of No. 14?
			ipPZ	M.S.	20 38 40	
			i(S)Z	M.S.	20 42 57	
			i(sS)Z	M.S.	20 43 09	
	Jan. 10	C.G.	iPN	W.A.	20 38 23	
			eSE	W.A.	20 42 46	
	Jan. 10	Fl.	iPN	W.A.	20 38 34	
			iSN	W.A.	20 43 00	

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No.	Date	Sta	Phase	Inst	h m s	Remarks				
16	Jan. 12	S.L.	iPZ	M.S.	15 08 20	$\Delta P-H = 26^{\circ}3$ $\Delta_{meas} = 26^{\circ}3$ $H = 15^h02^m42^s$ Epicenter: 40° N., 124.2° W.				
			iZ	M.S.	15 08 40					
			eSN	S.	15 12 53					
			eN	S.	15 13 30					
			eLN	S.	15 15 33					
			F	S.	15 55 --					
	Jan. 12	C.G.	e	W.A. _n	15 08 47					
			eL	W.A. _n	15 17.5					
	Jan. 12	Fl.	iSN	G.W.	15 12 57	$\Delta S-H = 26^{\circ}2$ $\Delta_{meas} = 26^{\circ}1$				
eLN			G.W.	15 15.5						
F			G.W.	15 51 --						
17	Jan. 15	S.L.	eE	W.A.	05 54 09	$\Delta S-H = 41^{\circ}3$ $\Delta_{meas} = 41^{\circ}2$ $H = 05^h46^m18^s$? Epicentral Region: $17^{\circ}6$ N., $49^{\circ}7$ W.				
			eSN	S.	06 00 25					
			eL	S.	06 03.5					
			F	S.	06 33 --					
	Jan. 15	Fl.	e(P)Z	G.W.	05 54 01	$\Delta S-H = 41^{\circ}3$ $\Delta_{meas} = 41^{\circ}4$				
			eSN	G.W.	06 00 25					
			eLN	G.W.	06 03 48					
			F	G.W.	06 31 --					
18	Jan. 16	S.L.	iPZN	M.S.	00 00 56	$\Delta P-H = 72^{\circ}7$ $\Delta_{meas} = 72^{\circ}7$ $H = 23^h49^m33^s$ Epicenter: 31° S., $68^{\circ}2$ W. About 40 km deep.				
			eNE	W.A.	00 00 57					
			iPE	S.	00 00 57					
			ipPZ	M.S.	00 01 05					
			eN	S.	00 01 42					
			i(S)N	S.	00 10 11					
			iE	S.	00 10 15					
			iSN	S.	00 10 17					
			eSE	W.A.	00 10 17					
			eSN	W.A.	00 10 18					
			isSE	S.	00 10 34					
			Records of January 15, 1944 are at La Plata, Argentina.							
			19	Jan. 16	S.L.		eE	S.	14 37 50	
(M)	S.	14 38.5								
(L)	S.	14 40 --								
Jan. 16	Fl.	(e)		G.W. _n	14 38 38					
		(L)	G.W. _n	14 42 --						
20	Jan. 20	S.L.	eFZ	M.S.	03 12 28	$\Delta S-H = 95^{\circ}1$ $\Delta_{meas} = 95^{\circ}1$ $H = 02^h59^m17^s$ Epicentral Region: $15^{\circ}5$ S., $174^{\circ}5$ W. About 100 km deep.				
			iFZ	M.S.	03 12 29.5					
			epPZ	M.S.	03 12 52					
			iZ	M.S.	03 12 59					
			eSKSE	S.	03 22 56					
			eSE	S.	03 23 38					
			e(SP)E	S.	03 24 59					
			eL	S.	03 29 --					
			F	S.	04 17 --					

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20 (Con't.)	Jan. 20	Fl.	ePZ	W.A.	03 12 31	$\Delta_{S-H} = 95^{\circ}3$ $\Delta_{meas} = 95^{\circ}$
			iSKSE	G.W.	03 22 59	
			eSE	G.W.	03 23 40	
21	Jan. 20	S.L.	iPZ	M.S.	12 49 03	
			iZ	M.S.	12 49 15	
			iZ	M.S.	12 49 24	
			iZ	M.S.	12 49 56	
22	Jan. 22	S.L.	ePZ	M.S.	19 59 31	
	Jan. 22	Fl.	eN	W.A.	19 59 45	
23	Jan. 22	S.L.	ePE	W.A.	22 01 27	
	Jan. 22	Fl.	ePN	W.A.	22 01 24	
24	Jan. 23	S.L.	iPZ	M.S.	07 27 10	South of Alaska. May be deep.
			iZ	M.S.	07 27 14	
			iZ	M.S.	07 27 23	
			e(S)E	S.	07 34 16	
	Jan. 23	Fl.	ePN	W.A.	07 27 09	
			eN	W.A.	07 27 13	
			eN	W.A.	07 27 27	
			eN	G.W.	07 34 13	
			eLN	G.W.	07 46 --	
	F	G.W.	08 10 --			
Jan. 23	C.G.	eN	W.A.	07 27 20		
25	Jan. 24	S.L.	ePZ	M.S.	00 15 57	
			eZ	M.S.	00 16 07	
			eZ	M.S.	00 16 15	
	Jan. 24	Fl.	ePN	W.A.	00 15 58	
	Jan. 24	C.G.	ePN	W.A.	00 15 49	
26	Jan. 24	S.L.	eE	S.	06 17 28	
	Jan. 24	Fl.	eE	G.W.	06 17 07	
			F	G.W.	06 25 --	
27	Jan. 25	S.L.	eP'Z	M.S.	07 52 31	Region about 8° S., 121° E.
			epP'Z	M.S.	07 53 07	
			i(SKP)Z	M.S.	07 56 05	
			iZ	M.S.	07 56 57	
	Jan. 25	Fl.	epP'Z	G.W.	07 53 06	
			e(SKP)Z	G.W.	07 56 04	
28	Jan. 25	S.L.	iPZ	M.S.	12 48 17	
			iZ	M.S.	12 48 22	

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No.	Date	Sta	Phase	Inst	h m s	Remarks
29	Jan. 27	S.L.	eZ	M.S.	04 59 51	
			eZ	M.S.	04 59 56	
			eZ	M.S.	05 00 21	
	Jan. 27	Fl.	eE	W.A.	04 59 35	
			eE	W.A.	04 59 41	
			eN	W.A.	04 59 59	
			eE	W.A.	05 00 14	
			eE	W.A.	05 00 25	
	Jan. 27	C.G.	eN	W.A.	05 00 40	
30	Jan. 28	S.L.	eLN	S.	11 51.5	
			F	M.S.	12 38.5	
	Jan. 28	Fl.	e(L)E	G.W.	11 55 --	
			F	G.W.	12 21 --	
31	Jan. 29	S.L.	iFZ	M.S.	02 33 26	H = 02h25m13s. Epicentral Region: 63° N., 153°8 W. Slightly deep.
			iFZ	M.S.	02 33 31	
			i(pP)Z	M.S.	02 33 36	
			eZ	M.S.	02 35 19	
			eSE	S.	02 40 05	
			eLE	S.	02 46 47	
			F	S.	03 53.5	
	Jan. 29	Fl.	iPZ	G.W.	02 33 30	
			e(S)E	G.W.	02 40 03	
			F		03 43 --	
	Jan. 29	C.G.	ePN	W.A.	02 33 36	
			e(pP)N	W.A.	02 33 41	
32	Jan. 31	S.L.	(e)Z	M.S.	00 05 39	
			eLN	S.	00 29 53	
33	Jan. 31	S.L.	e(P)Z	M.S.	02 59 25	
			e(PR ₁)Z	M.S.	02 59 38	
			eLN	S.	03 05 54	
	Jan. 31	Fl.	eN	G.W.	03 06 03	
			Jan. 31	C.G.	eLN	
	34	Jan. 31			S.L.	
eZ			M.S.	09 40 57		
Jan. 31		Fl.	eN	G.W.	10 02 51	
			35	Jan. 31	S.L.	eZ

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Minor Seismic Activity

Station	From h m	To h m	Date
S.L.	00 40	05 00	Jan. 3
S.L.	23 06	23 07	4
S.L.	08 25.5	08 40	5
S.L.	11 46.5	11 58	6
S.L.	03 22.5	03 31	8
S.L.	11 25	11 26	8
S.L.	05 35	05 40	14
S.L.	03 29.5	03 56.5	15
S.L.	02 05.5	02 08.5	15
Fl.	21 22	21 30	14
S.L.	14 17.5	14 29.5	17
S.L.	16 40	16 43	17
S.L.	06 18.5	06 22.5	18
S.L.	21 19	22 30	20
S.L.	03 22	03 30	22
S.L.	14 --	20 --	21
Fl.	04 36	04 39	24
S.L.	07 04	08 39	31

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AINT LOUIS UNIVERSITY

INSTITUTE OF GEOPHYSICAL TECHNOLOGY

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E.

No.	Date	Sta	Phase	Inst	h m s	Remarks
36	Feb. 1	S.L.	ePZ	M.S.	03 35 09	$\Delta_{P-H} = 84.04$ $\Delta_{meas} = 84.04$ $H = 03^h 22^m 43^s$ Epicentral Region: 41.05 N., 32.03 E.
			iPZ	M.S.	03 35 13	
			iPZ	M.S.	03 35 16	
			iZ	M.S.	03 35 31	
			iZ	M.S.	03 36 01	
			iZ	M.S.	03 36 55	
			iZ	M.S.	03 37 57	
			iZ	M.S.	03 38 08	
			iPR ₁ Z	M.S.	03 38 31	
			iPR ₂ Z	M.S.	03 40 28	
			e(PF ₃)Z	M.S.	03 42 04	
			iE	S.	03 45 52	
			iE	S.	03 48 33	
			eSR ₁ E	S.	03 51 25	
			eSR ₁ N	S.	03 51 35	
		F	M.S.	08.2		
		Fl.	iPZ	G.W.	03 35 16	
			iZ	G.W.	03 35 31	
			iZ	G.W.	03 35 49	
			iPR ₁ Z	G.W.	03 38 35	
			iZ	G.W.	03 38 58	
			iPR ₂ Z	G.W.	03 40 24	
		C.G.	e(S)E	G.W.	03 45 41	
			ePN	W.A.	03 35 19	$\Delta_{P-H} = 85.06$ $\Delta_{meas} = 85.04$
			eN	W.A.	03 35 34	
			eN	W.A.	03 38 14	
			eN	W.A.	03 38 19	
ePR ₁ N	W.A.		03 38 30			
eN	W.A.		03 41 12			
e(S)N	W.A.		03 45 54			
F		05 18 --				
37	Feb. 1	S.L.	iPZ	M.S.	05 28 54	$\Delta_{P-H} = 87.08$ $\Delta_{meas} = 87.08$ $H = 05^h 16.2^m$ Epicentral Region: 40.95 N., 141.83 E. About 70 km. deep.
			ipPZ	M.S.	05 29 07	
			iZ	M.S.	05 29 25	
			iZ	M.S.	05 30 03	
			eZ	M.S.	05 30 21	
			e(SKS)Z	M.S.	05 39 14	
			Fl.	iPZ	G.W.	
		iZ		G.W.	05 29 10	
		eSKSE		W.A.	05 39 11	
		eSE		G.W.	05 39 20	
		iSE		G.W.	05 39 23	

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No.	Date	Sta	Phase	Inst	h m s	Remarks	
37 (Con't.)	Feb. 1	C.G.	ePN	W.A.	05 29 01	$\Delta_{P-H} = 89^{\circ}1$ $\Delta_{meas} = 89^{\circ}2$	
			eN	W.A.	05 29 05		
			epPN	W.A.	05 29 13		
			eN	W.A.	05 29 24		
			e(SKS)N	W.A.	05 39 22		
38	Feb. 1	S.L.	iPZ	M.S.	06 21 24	Aftershock of No. 36	
39	Feb. 1	S.L.	ePZ	M.S.	17 42 12	Blast ?	
40	Feb. 1	S.L.	eZ	M.S.	21 37 18		
			eLE	S.	22 09 41		
		Fl.	eE	G.W.	22 13.1		Surface Waves.
41	Feb. 2	S.L.	ePZ	M.S.	03 45 47	Aftershock of No. 36	
			iPZ	M.S.	03 45 50		
			iZ	M.S.	03 46 02		
42	Feb. 2	S.L.	ePZ	M.S.	22 55 01		
			eZ	M.S.	22 55 23		
43	Feb. 2	S.L.	ePZ	M.S.	19 42 09		
44	Feb. 3	S.L.	ePZ	M.S.	11 32 33	Region of $5^{\circ}6$ N., $71^{\circ}6$ W. H = $11^h25.4^m$ $\Delta_{P-H} = 36^{\circ}6$ $\Delta_{meas} = 37^{\circ}$	
45	Feb. 3	S.L.	iPZ	M.S.	12 22 06	$\Delta_{P-H} = 35^{\circ}3$ $\Delta_{meas} = 35^{\circ}4$ H = $12^h15^m08^s$ Epicenter: $59^{\circ}5$ N., $135^{\circ}6$ W.	
			iZ	M.S.	12 22 13		
			iPR ₁ Z	M.S.	12 23 20		
			iPR ₂ Z	M.S.	12 23 44		
			i(PcP)Z	M.S.	12 24 29		
			eSE	S.	12 27 47		
			eSR ₁ E	S.	12 29 43		
			e(SR ₂)E	S.	12 30 26		
			eN	S.	12 33 04		
			iN	S.	12 33 44		
			C.G.	ePN	W.A.		12 22 17
				eN	W.A.		12 23 20
		ePR ₁ N		W.A.	12 23 40		
		ePR ₂ N		W.A.	12 24 04		
		ePR ₃ N		W.A.	12 24 19		
		eN		W.A.	12 24 54		
		eSR ₁ N		W.A.	12 30 23		
		F	W.A.	12 59 --			

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No.	Date	Sta	Phase	Inst	h m s	Remarks	
45 (Con't.)	Feb. 3	Fl.	iPZ	G.W.	12 22 05	$\Delta_{P-H} = 35^{\circ}2$ $\Delta_{meas} = 35^{\circ}3$	
			eZ	G.W.	12 23 14		
			ePR ₁ Z	G.W.	12 23 21		
			iPR ₂ Z	G.W.	12 23 44		
			e(PcF)Z	G.W.	12 24 30		
			eSE	G.W.	12 27 44		
			eSR ₁ E	G.W.	12 29 46		
			e(L)E	G.W.	12 32 43		
			iE	G.W.	12 34 03		
			F	G.W.	14 09 --		
46	Feb. 3	S.L.	ePZ	M.S.	14 17 22	Region of No. 44.	
47	Feb. 4	S.L.	iPZ	M.S.	21 18 06	Region of: 39°2 N., 143°5 E. H = 21 ^h 05.5 ^m About 150 km. deep.	
			ipPZ	M.S.	21 18 40		
			eSKSE	S.	21 27 36		
			eSE	S.	21 28 06		
			esSKSE	S.	21 28 39		
			esSE	S.	21 29 10		
		Fl.	eSKSE	G.W.	21 27 34		
			ePN	W.A.	21 18 05		
			epPN	W.A.	21 18 40		
48	Feb. 4	S.L.	ePZ	M.S.	23 54 37	Eastern Greenland. H = 23 ^h 46.1 ^m	
			eSE	S.	24 02 02		
			eN	S.	24 04 24		
			eN	S.	24 05 45		
			eL	S.	24 10 --		
			F	S.	24 49 --		
			Fl.	eSE	G.W.		24 02 01
		eIE		G.W.	24 09.5		
		F		G.W.	24 30 --		
		49	Feb. 5	S.L.	eZ		M.S.
ePR ₁ Z	M.S.				17 39 20		
eZ	M.S.				17 39 36		
eSKSN	S.				17 45 10		
eSPN	S.				17 48 54		
eFPSPN	S.				17 50 40		
F	S.				19 47 --		
Fl.	iPR ₁ Z				G.W.	17 39 17	
	eZ				G.W.	17 42 18	
	eZ				G.W.	17 44 57	
	eSKSE			G.W.	17 45 21		
	eSPE			G.W.	17 48 45		
	eE			G.W.	17 49 25		
	F			G.W.	19 32 --		

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No.	Date	Sta	Phase	Inst	h m s	Remarks
50	Feb. 5	S.L.	eN	W.A.	20 45 40	
			eN	W.A.	20 45 42	
			eLE	S.	21 00.5	
		Fl.	W.A.	20 45 46		
			eLE	G.W.	21 00.1	
51	Feb. 5	C.G.	ePN	W.A.	22 10 44	
			eN	W.A.	22 10 52	
52	Feb. 6	S.L.	ePZ	M.S.	18 47 45	$\Delta_{\text{meas}} = 36^{\circ}8$ $\Delta_{\text{P-H}} = 36^{\circ}7$ $H = 18^{\text{h}}40.6^{\text{m}}$ Epicentral Region: $10^{\circ}3 \text{ N.}, 64^{\circ} \text{ W.}$
			eZ	M.S.	18 48 02	
			eLN	S.	18 57 31	
		Fl.	ePN	W.A.	18 47 45	
			eE	W.A.	18 48 30	
		C.G.	ePN	W.A.	18 47 29	
		eN	W.A.	18 47 47		
53	Feb. 7	S.L.	e(L)E	S.	17 58 57	South Alaska.
		Fl.	e(L)E	G.W.	17 59 12	
54	Feb. 10	S.L.	ePZ	M.S.	12 18 02	
55	Feb. 11	S.L.	eE	S.	19 24 58	
56	Feb. 14	S.L.	iPZ	M.S.	03 05 07	Roughly $39^{\circ}\text{N.}, 143^{\circ}\text{E.}$
			eZ	M.S.	03 05 15	
57	Feb. 14	S.L.	eZ	M.S.	09 42 13	
58	Feb. 15	S.L.	iPZ	M.S.	05 47 23	$H = 05^{\text{h}}39.5^{\text{m}}$ Region of $49^{\circ}\text{N.}, 32^{\circ}\text{W.}$ $\Delta_{\text{P-H}} = 42^{\circ}2$
			iZ	M.S.	05 47 29	
			eSN	S.	05 53 45	
		Fl.			Time correction uncertain.	
59	Feb. 15	S.L.	ePR ₁ Z	M.S.	16 02 55	$H = 15^{\text{h}}56.0^{\text{m}}$ Region of $17^{\circ}\text{N.}, 66^{\circ}\text{W.}$ $\Delta_{\text{PR}_1\text{-H}} = 29^{\circ}6$
60	Feb. 16	S.L.	iPZ	M.S.	11 20 15	Alaska?
			eZ	M.S.	11 20 34	
			eSE	S.	11 27 27	
			eLN	S.	11 32 13	
			F	S.	12 07.5	

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No.	Date	Sta	Phase	Inst	h m s	Remarks
61	Feb. 18	S.L.	iFZ eZ	M.S. M.S.	19 30 41 19 30 48	Southwestern Canada?
62	Feb. 19	S.L.	eFZ eSN eN F	M.S. S. S. S.	11 44 15 11 51 04 11 56 18 12 20.5	H = 11 ^h 35.9 ^m $\Delta_{P-H} = 45^{\circ}7$ Region of 59°N., 24°W.
63	Feb. 19	S.L.	c(P)Z	M.S.	16 03 03	Northern Pacific. South of Aleutians.
64	Feb. 19	S.L.	e(L)Z	M.S.	20 21.6	
65	Feb. 20	S.L.	eZ eE	M.S. S.	19 40 26 19 55 59	
66	Feb. 21	S.L.	eFZ e(L)E	M.S. S.	00 36 26 00 50.6	
67	Feb. 21	S.L.	iFZ iZ iPR ₁ Z iZ eSE L eE eScPE F	M.S. M.S. M.S. M.S. S. S. S. S. S.	11 33 57 11 34 02 11 34 22 11 34 32 11 38 19 11 39 -- 11 40 58 11 41 47 12 42 --	H = 11 ^h 28.9 ^m Region of : 104°6 W., 19°0 N. $\Delta_{P-H} = 23^{\circ}$
		C.G.	eN eN	W.A. W.A.	11 33 59 11 37 04	
68	Feb. 21	S.L.	eE eIE	S. S.	15 41 35 15 50 13	
69	Feb. 21	S.L.	(e)Z c(L)E	M.S. S.	17 42 05 17 57 40	
70	Feb. 21	S.L.	eLE	S.	20 54.3	
71	Feb. 23	S.L.	eN cLE M	S. S. S.	01 44 28 01 53 -- 01 56.2	
72	Feb. 23	S.L.	eZ eN F	M.S. S. S.	05 57 10 06 07 03 06 29.5	

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No.	Date	Sta	Phase	Inst	h m s	Remarks
73	Feb. 23	S.L.	iPZ	M.S.	12 35 15	$H = 12^h25.5^m$ $\Delta P-H = 59.1$ Region of $51^{\circ}N.$, $176^{\circ}W.$ About 100 km. deep.
			iZ	M.S.	12 35 23	
			iZ	M.S.	12 35 31	
			ipPZ	M.S.	12 35 40	
			eSE	S.	12 43 20	
			eE	S.	12 43 39	
			esSE	S.	12 44 00	
			eN	S.	12 44 47	
			cE	W.A.	12 45 00	
			eLE	S.	12 53 45	
			F	S.	13 33 --	
74	Feb. 25	S.L.	iPZ	M.S.	06 44 01	
75	Feb. 25	S.L.	iPZ	M.S.	07 41 22	$H = 07^h32.5^m$ $\Delta P-H = 49.5$ Region: $68^{\circ}N.$, $166^{\circ}W.$
			e(SR ₁)N	S.	07 52 29	
			eLE	S.	07 56 03	
			F	S.	08 33 --	
		Fl.	cPE	W.A.	07 41 20	$\Delta P-H = 49.2$
			eSR ₁ E	G.W.	07 51 48	
			F	G.W.	08 27 --	
76	Feb. 26	S.L.	ePZ	M.S.	22 31 27	Alaska. $H = 22^h22.9^m$
			iPZ	M.S.	22 31 29	
			eZ	M.S.	22 32 18	
			eLE	S.	22 45.3	
			F	S.	23 14 --	
		Fl.	ePZ	G.W.	22 31 27	
eL	G.W.		22 44.9			
77	Feb. 28	S.L.	eE	S.	16 35 33	
78	Feb. 28	S.L.	e(P)Z	M.S.	17 52 01	
			eLE	S.	18 06 27	
		Fl.	eLE	G.W.	18 06 22	
79	Feb. 29	S.L.	iPZ	M.S.	03 51 17	$H = 03^h12^m07^s$ $\Delta P-H = 56.3$ $\Delta_{meas} = 56.3$ Tentative Epicenter: $14^{\circ}2 S.$, $69^{\circ}3 W.$ About 275 km. deep.
			iZ	M.S.	03 51 58	
			ipPZ	M.S.	03 52 02	
			ipPZ	M.S.	03 52 14	
			iZ	M.S.	03 52 46	
			iZ	M.S.	03 53 11	
			iPR ₁ Z	M.S.	03 53 25	
			iZ	M.S.	03 54 07	
			ipPR ₁ Z	M.S.	03 54 27	
			ipPR ₂ Z	M.S.	03 55 57	
			iSE	S.	03 58 40	
			iSE	S.	03 58 47	
			iE	S.	03 59 13	
			iSPE	S.	03 59 58	

(Con't. on next page)

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No.	Date	Sta	Phase	Inst	h m s	Remarks			
79 (Con't.)	Feb. 29	S.L.	iE	S.	04 00 18				
			isSE	S.	04 00 47				
			iScSE	S.	04 01 32				
			iSR ₁ E	S.	04 02 43				
			e(sSR ₁)E	S.	04 04 43				
			eLE	S.	04 08 38				
			F	S.	06 06 --				
		Fl.	iPZ	G.W.	03 51 19		$\Delta_{\text{meas}} = 56^{\circ}4$		
			iZ	G.W.	03 52 02				
			iPcP	G.W.	03 52 09				
			ipPZ	G.W.	03 52 16				
			iPR ₁ Z	G.W.	03 53 30				
			ipPR ₁ Z	G.W.	03 54 23				
			ipPR ₃ Z	G.W.	03 55 58				
			iSE	G.W.	03 58 44				
			iSE	G.W.	03 58 51				
			cSPE	G.W.	03 59 31				
			iE	G.W.	04 00 02				
			isSE	G.W.	04 00 49				
			iScSE	G.W.	04 01 35				
			iE	G.W.	04 02 11				
			iSR ₁ E	G.W.	04 02 44				
			iSR ₁ E	G.W.	04 02 53				
			eE	G.W.	04 03 55				
			csSR ₁	G.W.	04 04 32				
			cE	G.W.	04 06 59				
			e(L)E	G.W.	04 08 06				
			F	G.W.	05 44 --				
			C.G.	iPE	W.A.			03 51 07	$\Delta_{\text{meas}} = 55^{\circ}$
				cPcPE	W.A.			03 51 57	
		eE		W.A.	03 56 09				
		eSE		W.A.	03 58 28				
		eE		W.A.	04 00 33				
		80	Feb. 29	S.L.	eP'Z		M.S.	16 47 27	H = 16h28m08s Epicenter: 0°01', 75°0E. $\Delta_{\text{PR}_1\text{-H}} = 139^{\circ}2$ $\Delta_{\text{meas}} = 139^{\circ}2$
					iP'Z		M.S.	16 47 33	
iZ	M.S.				16 47 42				
iPR ₁ Z	M.S.				16 50 22				
eSKP ₁ Z	M.S.				16 51 06				
iZ	M.S.				16 51 34				
iPR ₂ Z	M.S.				16 53 29				
eSKSZ	M.S.				16 54 47				
cPR ₂ Z	M.S.				16 55 43				
ePSKSN	S.				17 00 23				
e(FPS)N	S.				17 02 26				
eSR ₁ N	S.				17 08 38				
cPPSSN	S.				17 09 46				
eSR ₂ N	S.			17 13 59					
F	S.			20.5					
C.G.	eP'N			W.A.	16 47 45	$\Delta_{\text{PR}_1\text{-H}} = 140^{\circ}3$ $\Delta_{\text{meas}} = 140^{\circ}4$			
	ePR ₁ N			W.A.	16 50 29				
	eSKP ₁ E			W.A.	16 51 12				

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No.	Date	Sta	Phase	Inst	h m s	Remarks
80 (Con't.)	Feb. 29	Fl.	eP'Z	G.W.	16 47 24	
			iZ	G.W.	16 47 44	
			ePR ₁ Z	G.W.	16 50 22	
			cSKF ₁ Z	G.W.	16 50 52	
			iZ	G.W.	16 51 17	
			ePR ₂ Z	G.W.	16 53 32	
			e(SKS)Z	G.W.	16 55 12	
			ePR ₃ Z	G.W.	16 55 51	
			ePSKSE	G.W.	17 00 39	
			ePPFSZ	G.W.	17 04 15	
			cSR ₁ E	G.W.	17 08 45	
			cSR ₂ E	G.W.	17 13 45	
			F	G.W.	20.2	
81	Feb. 29	S.L.	eFZ	M.S.	20 44 51	
			eN	S.	20 55 35	

Minor Seismic Activity

Station	From h m s	To h m s	Date
S.L.	04 22 --	04 32 --	Feb. 2
Fl.	04 22 --	04 27.5	2
S.L.	12 58 36		4
S.L.	03 09 --	03 38 --	5
S.L.	16 36.5	16 43 --	5
S.L.	20 17 --	20 43 --	7
Fl.	20 21 --	20 31 --	7
S.L.	17 07.5	17 10 --	15
S.L.	03 15 --	03 20 --	16
S.L.	03 15 --	03 19 --	19
S.L.	00 59 --	01 03 --	22
S.L.	07 37 --	07 52 --	22
S.L.	02 59.5	03 18 --	26
S.L.	02 35 --	03 38 --	27

 James B. Macelwane, S. J.,
 Director.

 Paul E. Howe,
 Student Assistant.

SAINT LOUIS UNIVERSITY INSTITUTE OF GEOPHYSICAL TECHNOLOGY

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SEISMOLOGICAL BULLETIN

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No.	Date	Sta	Phase	Inst	h m s	Remarks
82	March 1	S.L.	e(L)N	S.	13 37 40	
83	March 5	S.L.	eP ₁ Z iPR ₁ Z eSE eSR ₁ E eLE F	M.S. M.S. S. S. S. S.	17 34 39 17 36 12 17 45 48 17 53 00 18 15 14 19 08 --	Epicentral Region by U.S.C.G.S.: 8° N., 127° E. H = 17 ^h 16.1 ^m 200 km. deep. (Approx.)
		Fl.	ePR ₁ E	W.A.	17 36 13	
84	March 6	S.L.	ePZ cSE cE e(sS)E eSR ₁ E eLN eMN	M.S. S. S. S. S. S. S.	20 15 14 20 20 17 20 20 24 20 20 37 20 21 42 20 23 49 20 26 00	Epicentral Region: 44°2 N., 128°6 W. May be 50 km. deep. $\Delta_{P-H} = 29^{\circ}6$ H = 20 ^h 09 ^m 09 ^s
		Fl.	ePZ eSZ eE e(L)E	G.W. G.W. G.W. G.W.	20 15 16 20 20 18 20 20 45 20 24 07	
85	March 6	S.L.	ePZ ePR ₁ Z cSE eE eME	M.S. M.S. S. S. S.	21 11 59 21 12 58 21 16 53 21 21 17 21 22 13	Aftershock of No 84. Normal.
		Fl.	ePZ eSE eME	G.W. G.W. G.W.	21 11 56 21 17 06 21 22 17	
86	March 6	S.L.	ePZ ePR ₁ Z eSN eSR ₁ N eLN eMN	M.S. M.S. S. S. S. S.	23 22 37 23 23 39 23 27 41 23 29 04 23 31 11 23 33 29	Aftershock of No. 84. H = 23 ^h 16 ^m 32 ^s $\Delta_{meas} = 29^{\circ}3$
		Fl.	ePR ₁ Z eSE eE eLE	G.W. G.W. G.W. G.W.	23 23 42 23 27 41 23 29 45 23 31 31	$\Delta_{meas} = 29^{\circ}1$

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No.	Date	Sta	Phase	Inst	h m s	Remarks
87	March 7	S.L.	ePZ	M.S.	06 15 19	Aftershock of No. 84. $\Delta_{\text{meas}} = 29^{\circ}6$ H = 06h09m13s $\Delta_{\text{meas}} = 29^{\circ}4$
			e(S)E	S.	06 20 42	
			e(L)E	S.	06 24 38	
		FL.	G.W.	06 15 19		
			eSE	G.W.	06 20 20	
88	March 7	S.L.	ePZ	M.S.	06 51 14	H = 06h41m56s $\Delta_{\text{meas}} = 30^{\circ}6$ Aftershock of No. 84.
			eSE	S.	06 56 45	
			eE	S.	07 00 47	
			eE	S.	07 03 41	
89	March 7	S.L.	ePZ	M.S.	08 27 37	$\Delta_{\text{meas}} = 29^{\circ}7$ H = 08h21m08s Aftershock of No. 84. $\Delta_{\text{meas}} = 29^{\circ}5$
			eSE	S.	08 32 37	
			eE	S.	08 36 51	
			eE	S.	08 37 49	
		FL.	ePZ	G.W.	08 27 35	
			eSE	G.W.	08 32 38	
90	March 9	S.L.	eLE	S.	16 37 54	Aftershock of No. 84 ?
		FL.	eLE	G.W.	16 38 --	
91	March 9	S.L.	eLE	S.	16 48 16	Aftershock of No. 84 ?
		FL.	eLE	G.W.	16 48.5	
92	March 9	S.L.	eLE	S.	17 23 47	Aftershock of No. 84 ?
		FL.	eLE	G.W.	17 24 --	
93	March 9	S.L.	ePZ	M.S.	22 17 18	Foreshock of No. 94.
			eSKSN	S.	22 27 54	
			eSPN	S.	22 29 58	
94	March 9	S.L.	iPZ	M.S.	22 26 32	H = 22h13m00s $\Delta_{\text{P-H}} = 97^{\circ}0$ $\Delta_{\text{meas}} = 97^{\circ}2$ Epicentral Region: 44.4 N., 85.95 E. $\Delta_{\text{meas}} = 97^{\circ}7$ $\Delta_{\text{meas}} = 97^{\circ}1$ $\Delta_{\text{P-H}} = 97^{\circ}0$
			eZ	M.S.	22 26 57	
			ePR ₁ Z	M.S.	22 30 28	
			iSKSN	S.	22 37 06	
			eSE	W.A.	22 37 58	
			iSPN	S.	22 39 22	
			e(SR ₁)N	S.	22 45 34	
			e(SR ₂)N	S.	22 48 26	
			eLN	S.	23 00 19	
			C.G.	eSKSN	W.A.	
		FL.	ePZ	G.W.	22 26 32	
			e(PR ₁)Z	G.W.	22 30 37	
			iSKSE	G.W.	22 37 05	
			eSPZ	G.W.	22 39 22	
			eSR ₂ E	G.W.	22 49 06	

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No.	Date	Sta	Phase	Inst	h m s	Remarks	
95	March 10	S.L.	cPZ	M.S.	06 52 42	H = 06 ^h 40 ^m 08 ^s Δ _{P-H} = 85 ^o 9 Δ _{meas} = 86 ^o 1 Epicentral Region: 41 ^o 4 N., 143 ^o 3 E. Depth: 50 km.	
			ipPZ	M.S.	06 52 55		
			epPR ₁ Z	M.S.	06 56 21		
			eSE	S.	07 03 21		
			eSR ₁ E	S.	07 09 11		
			c(SR ₃)E	S.	07 15 43		
			eLE	S.	07 20 36		
			F	S.	08.5		
		Fl.	ePZ	G.W.	06 52 44		Δ _{meas} = 86 ^o 0
			epPR ₁ Z	G.W.	06 56 16		Δ _{P-H} = 86 ^o 3
			eSKSE	G.W.	07 03 37		
			eSE	G.W.	07 03 49		
			eSR ₁ E	G.W.	07 09 08		
			c(SR ₃)E	G.W.	07 15 39		
eLE	G.W.	07 21 --					
F	G.W.	08.1					
96	March 12	S.L.	c(P)Z	M.S.	18 22 26		
97	March 14	S.L.	e(P)Z	M.S.	07 32 47		
			eLE	S.	07 52.6		
		Fl.	eLE	G.W.	07 53.5		
98	March 15	S.L.	eLE	S.	05 59 --		
			Fl.	eLE	G.W.	05 59.5	
99	March 15	S.L.	cZ	M.S.	09 15 42		
100	March 21	S.L.	e(P)Z	M.S.	15 28 07	Weak.	
			cLN	S.	15 43 --		
101	March 21	S.L.	iPZ	M.S.	22 22 37	Epicentral Region by U.S.C.G.S.: 42 ^o N., 143 ^o E. (May be 50 km. deep.)	
			c(pP)Z	M.S.	22 22 52		
			eZ	M.S.	22 24 04		
			cPR ₁ Z	M.S.	22 26 18		
			iSE	S.	22 33 15		
			cSR ₁ E	S.	22 38 57		
			eLE	S.	22 50 --		
			Fl.	c(P)Z	G.W.		22 22 50
		eSE		G.W.	22 33 01		
		cSR ₁ E		G.W.	22 38 56		
		eLE		G.W.	22 52 --		

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No.	Date	Sta	Phase	Inst	h m s	Remarks
102	March 22	S.L.	eZ	M.S.	01 02 05	Epicentral Region: 8°7 S., 123°08 E H = 00h43m20s $\Delta PR_1 - H = 137^{\circ}7$ $\Delta_{meas} = 137^{\circ}8$ 200±km deep.
			i(F')Z	M.S.	01 02 10	
			iP'Z	M.S.	01 02 19	
			iPR ₁ Z	M.S.	01 05 02	
			iSKPZ	M.S.	01 05 32	
			ipPR ₁ Z	M.S.	01 05 47	
			iZ	M.S.	01 06 06	
			isSKPE	S.	01 06 49	
			ePR ₂ Z	M.S.	01 07 58	
			eSKKSE	S.	01 11 39	
			esSKKSE	S.	01 12 52	
			esSN	S.	01 15 06	
			ePPSE	S.	01 17 50	
			eE	S.	01 18 40	
			eSR ₁ Z	M.S.	01 22 53	
			e(FPSS)N	S.	01 23 59	
			eSR ₂ E	S.	01 28 59	
			eN	S.	01 36 39	
			F	S.	03.4	
			Fl.	iP'Z	G.W.	
		iPR ₁ Z		G.W.	01 05 03	
		eSKPZ		G.W.	01 05 38	
		esSKPE		G.W.	01 06 47	
		eZ		G.W.	01 11 38	
		eSKKSE		G.W.	01 11 41	
		ePPSE		G.W.	01 17 34	
		ePPPSE		G.W.	01 18 47	
		eSR ₁		G.W.	01 23 00	
		eSR ₂ E		G.W.	01 28 01	
		F	G.W.	03.3		
		C.G.	eP'N	W.A.	01 02 23	$\Delta_{meas} = 138^{\circ}8$
			eSKPN	W.A.	01 05 44	
			epPR ₁ N	W.A.	01 05 59	
103	March 22	S.L.	e(P)Z	M.S.	17 45 18	
104	March 22	S.L.	iPZ	M.S.	17 56 50	
			iZ	M.S.	17 57 03	
			eLE	S.	18 15 --	
105	March 22	S.L.	eN	S.	19 32 54	
			eLE	S.	19 57 --	
		Fl.	eLE	G.W.	19 58 --	
106	March 23	S.L.	iPZ	M.S.	12 11 00	Off West Coast of Central America.
			e(S)E	S.	12 15 59	
		Fl.	ePN	W.A.	12 11 05	Time correction un- certain.

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No.	Date	Sta	Phase	Inst	h m s	Remarks
107	March 24	S.L.	iPZ eSN	M.S. S.	17 08 07 17 13 07	Epicentral Region: by U.S.C.G.S. 9° N., 83 1/2° W.
108	March 25	S.L.	iPZ	M.S.	04 30 06	Central America?
109	March 25	S.L.	eZ	M.S.	19 30 22	
110	March 26	S.L.	iPZ	M.S.	23 54 55	
		Fl.	ePN	W.A.	23 54 58	
111	March 28	S.L.	eLE	S.	11 25 --	
112	March 28	S.L.	eLE	S.	23 37 --	Also Fl.
113	March 31	S.L.	eP'Z eZ ePR ₁ Z iSKPZ iZ eE ePR ₂ E eSE eSR ₁ E eSR ₂ N eN eL F	M.S. M.S. M.S. M.S. M.S. M.S. M.S. M.S. M.S. M.S. M.S. M.S. M.S. M.S.	03 11 03 03 11 17 03 13 23 03 14 09 03 14 17 03 14 52 03 15 44 03 21 40 03 30 20 03 35 46 03 46 18 03 55.4 05.6	Region by U.S.C.G.S. 5 1/2° S., 136 1/2° E. H = 02 ^h 51.9 ^m
		Fl.	eZ eSKPZ ePR ₂ Z eSE F	G.W. G.W. G.W. G.W. G.W.	03 13 02 03 14 18 03 15 42 03 30 21 05.3	
		C.G.	eSKPN	W.A.	03 14 17	
114	March 31	C.G.	eN eN eN	W.A. W.A. W.A.	20 42 28 20 42 41 20 44 11	

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Minor Seismic Activity

Station	Date	From h ^h m ^m s	To h ^h m ^m s	Remarks	
S.L.	March 1	21 32.5	22 01	Calif. reports quake.	
S.L.	6	03 21.4	03 25.5		
S.L.	6	13 11.5	13 22.5		
S.L.	8	23 49.5	24 14		
Fl.	8	23 51	24 15		
S.L.	12	13 54	14 23		
S.L.	14	12 25	12 51		
S.L.	14	19 28	19 55		
S.L.	16	13 09.5	13 29		
S.L.	17	00 25	00 47		
Fl.	17	00 30	00 39		
S.L.	17	17.5	17.7		
S.L.	25	12 40.5	12 55.5		
Fl.	24	23 07.5	23 13		
S.L.	25	22 22.5	22 37		
S.L.	26	17.2	17.5		
Fl.	27	04.0	05.7		Seismic?
S.L.	27	04.3	06.5		Seismic?

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SEISMOLOGICAL BULLETIN

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No.	Date	Sta	Phase	Inst	h m s	Remarks		
115	April 2	S.L.	eLN	S.	04 51 36			
116	April 3	S.L.	e(L)N	S.	13 04 39			
117	April 3	S.L.	eLN	S.	13 22 58			
118	April 3	S.L.	eSN	S.	18 16 38			
			eLN	S.	18 36.1			
		Fl.	eLE	G.W.	18 39 --			
119	April 4	S.L.	ePZ	M.S.	22 57 46	H = 22 ^h 46 ^m 10 ^s Epicentral Region: 35°2 S., 100°5 W. ΔP-H = 74.6 Δ _{meas} = 74.5		
			eSE	S.	23 07 22			
120	April 5	S.L.	iFZ	M.S.	04 53 14	H = 04 ^h 40.7 ^m Epicentral Region: 40° N., 31° E. ΔP-H = 84.98 Δ _{meas} = 84.99		
			iZ	M.S.	04 53 21			
			eSN	S.	05 03 39			
		Fl.	eLE	S.	05 20.5			
		Fl.	eLE	S.	05 21.4			
121	April 6	S.L.	iPZ	M.S.	02 39 25			
			eZ	M.S.	02 39 41			
		Fl.	ePN	W.A.	02 39 26			
122	April 7	S.L.	iPZ	M.S.	13 38 27	H = 13 ^h 32 ^m 51 ^s . Epicentral Region: 11°6 N., 86°3 W. ΔP-H = 26.9 Δ _{meas} = 27.1 Depth of Focus: 100±km.		
			iPR ₁ Z	M.S.	13 39 19			
			iPcPZ	M.S.	13 41 25			
			eSN	S.	13 42 51			
			eSN	S.	13 43 03			
			esSN	S.	13 43 20			
			eSR ₁ N	S.	13 44 01			
			eN	S.	14 15 04			
			C.G.	ePN	W.A.		13 38 13	ΔP-H = 25.0 ₄ Δ _{meas} = 25.7
				iPN	W.A.		13 38 14	
				ePR ₁ N	W.A.		13 38 14	
eSN	W.A.	13 42 31						
eSR ₁ N	W.A.	13 43 36						
123	April 10	S.L.	iFZ	M.S.	02 32 10			

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No.	Date	Sta	Phase	Inst	h m s	Remarks
124	April 10	S.L.	iPZ	M.S.	21 09 29	
			iZ	M.S.	21 09 49	
125	April 11	S.L.	(e)Z	M.S.	01 28 23	
126	April 11	S.L.	eLN	S.	02 43 --	
		Fl.	eLN	G.W.	02 43.3	
127	April 11	S.L.	iPZ	M.S.	23 06 01	H = 23 ^h 00 ^m 45 ^s Epicentral Region: 15°1 N., 97°7 W. ΔP-H = 24.1 Δmeas = 24.1
			eSN	S.	23 10 27	
		Fl.	ePZ	G.W.	23 06 03	
			eSE	G.W.	23 10 25	
128	April 13	S.L.	eN	S.	15 52 42	
129	April 17	S.L.	iPZ	M.S.	17 57 16	
			iZ	M.S.	17 57 38	
			eN	S.	18 10 49	
		Fl.	ePZ	G.W.	17 57 16	
eZ	G.W.		17 57 39			
130	April 19	S.L.	ePZ	M.S.	22 43 14	Epicentral Region by U.S.C.G.S.: 29° S., 116° W. H = 22 ^h 32.0 ^m
			iZ	M.S.	22 45 13	
			iSE	S.	22 52 23	
			eSR ₂ E	S.	23 00 13	
			eLN	S.	23 05 --	
		Fl.	ePZ	G.W.	22 43 19	
			iSE	G.W.	22 52 28	
			eSR ₂ E	G.W.	23 00 18	
eLE	G.W.	23 05 --				
131	April 21	S.L.	ePZ	M.S.	15 08 15	H = 15 ^h 01 ^m 27 ^s Epicenter: 1.8 N., 81.7 W. ΔP-H = 34.1 Δmeas = 34.1
			eSE	S.	15 13 45	
			e(SR ₁)E	S.	15 15 59	
			F	S.	15.6	
		Fl.	ePZ	G.W.	15 08 18	
			eSE	G.W.	15 13 48	
eZ	G.W.	15 16 10				
132	April 22	S.L.	ePZ	M.S.	03 46 49	
			eSE	S.	03 55 58	
			eE	S.	04 04 05	
		Fl.	eSE	G.W.	03 56 03	

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24.

No.	Date	Sta	Phase	Inst	h m s	Remarks
133	April 23	S.L.	e(P)Z	M.S.	08 25 56	
134	April 23	S.L.	epPZ eSKSE iE eSN eSR ₁ E	M.S. S. S. S. S.	11 12 32 11 21 00 11 21 41 11 22 10 11 29 24	Epicentral Region by U.S.C.G.S.: 22°0 S., 177 1/2°W. Depth approximately 375 km.
135	April 24	S.L.	eLE	S.	02 28 --	
		Fl.	eLE	G.W.	02 28 --	
136	April 26	S.L.	iP'Z iPR ₁ Z eSKPE ePR ₂ Z eSPE iSR ₁ E ePPSSE eE iSR ₂ E eLE F	M.S. M.S. S. M.S. S. S. S. S. S. S. S.	02 13 14 02 15 01 02 16 25 02 18 00 02 24 54 02 31 55 02 32 30 02 34 53 02 36 43 02 53.6 04.7	Epicentral Region: 1°0 S., 135°0 E. H = 01 ^h 54.3 ^m Agreement is poor. Possibly slightly deep. $\Delta_{PR_1-H} = 124^{\circ}6$ $\Delta_{meas} = 124^{\circ}4$
		Fl.	eP'Z iPR ₁ Z eSKPE eSKSE eSPE eE eSR ₁ E iSR ₁ E iPPSSE iSR ₂ E F	G.W. G.W. G.W. G.W. G.W. G.W. G.W. G.W. G.W. G.W. G.W.	02 13 14 02 14 59 02 16 25 02 20 14 02 24 55 02 30 35 02 31 48 02 31 52 02 32 26 02 36 39 04.5	$\Delta_{SR_1-H} = 124^{\circ}0$ $\Delta_{meas} = 124^{\circ}2$
137	April 26	S.L.	eZ	M.S.	18 46 52	
138	April 27	S.L.	eP'Z iPZ iZ iPR ₁ Z iPR ₂ Z iSKSE eE eSE iSPE iE iSR ₁ E F	M.S. M.S. M.S. M.S. M.S. S. S. S. S. S. S. S.	14 57 07 14 57 12 14 57 17 14 59 01 15 01 38 15 04 22 15 05 51 15 07 07 15 08 57 15 11 29 15 15 53 18.5	Epicentral Region: 1°0 S., 134°0 E. H = 14 ^h 38.2 ^m Poor Agreement. Possibly 50 km. deep. $\Delta_{meas} = 124^{\circ}4$

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No.	Date	Sta	Phase	Inst	h m s			Remarks
138 (Con't.)	April 27	Fl.	iP'Z	G.W.	14	57	15	$\Delta_{\text{meas}} = 124.92$
			ePR ₁ Z	G.W.	14	58	52	
			iZ	G.W.	14	59	27	
			ePR ₂ Z	G.W.	15	01	11	
			iSKSE	G.W.	15	04	22	
			e(SKKS)E	G.W.	15	05	47	
			iSE	G.W.	15	07	26	
			iSPE	G.W.	15	08	59	
			eSR ₁ E	G.W.	15	15	36	
			eE	G.W.	15	16	02	
			eSR ₂ E	G.W.	15	20	37	
			F	G.W.	18.0			
139	April 27	S.L.	eP'Z	M.S.	19	24	13	Aftershock of No. 136. $H = 19^{\text{h}}05.2^{\text{m}}$
			ePR ₁ Z	M.S.	19	26	01	
			eSKSE	S.	19	31	19	
			eSPN	S.	19	36	01	
			eSR ₁ N	S.	19	42	54	
			eE	S.	19	43	40	
			eE	S.	19	45	49	
			eSR ₂ E	S.	19	47	49	
			eLE	S.	20	02	49	
			eME	S.	20	15	54	
			F	S.	21.5			
140	April 28	S.L.	(e)	M.S.	05	55	37	
141	April 28	S.L.	iPZ	M.S.	05	56	47	$H = 05^{\text{h}}50^{\text{m}}28^{\text{s}}$ Epicentral Region: 8° N., 82 1/2° W. $\Delta_{\text{P-H}} = 30.7$ $\Delta_{\text{meas}} = 30.97$
			iPR ₁ ZN	M.S.	05	57	45	
			eSN	S.	06	01	51	
			eE	S.	06	03	42	
			F	M.S.	06.6			
		Fl.	iPZ	G.W.	05	56	49	
			iPR ₁ Z	G.W.	05	57	47	
			eSN	G.W.	06	01	57	
			eE	G.W.	06	03	47	
			F	G.W.	06.5			
142	April 29	S.L.	e(P)Z	M.S.	06	34	37	
			eLN	S.	06	50	09	
		Fl.	eLN	G.W.	06	50	30	
143	April 29	S.L.	ePZ	M.S.	16	30	48	
144	April 29	S.L.	eZ	M.S.	18	30	59	Very weak.

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Minor Seismic Activity

Station	Date	G.M.T.		Remarks
		From h m s	To h m s	
S.L.	April 8	03 55	04 02	Pasadena reports quake.
S.L.	9	19.1	19.5	
S.L.	10	04 33	04 51	
Fl.	10	04 33	04 40	
S.L.	16	09 26	09 43.5	
S.L.	18	12 16.5	12 53	
S.L.	25	18 56	19 17	

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No.	Date	Sta	Phase	Inst	h m s	Remarks		
145	May 4	S.L.	eZ	M.S.	06 07 31	Very weak.		
146	May 4	S.L.	iPZ	M.S.	06 20 17			
147	May 4	S.L.	e(L)N	S.	07 38 --			
		Fl.	e(L)	G.W.	07 37.5			
148	May 4	S.L.	ePZ	M.S.	20 42 58	Very weak. H = 20 ^h 36.3 ^m Region: 6° N., 83° W.		
149	May 6	S.L.	cPZ	M.S.	00 21 35	H = 00 ^h 13 ^m 45 ^s Epicenter: 23°0 N., 44°6 W. $\Delta_{P-H} = 41.8$ $\Delta_{meas} = 41.8$		
			iPZ	M.S.	00 21 38			
			iPZ	M.S.	00 21 41			
			iZ	M.S.	00 22 29			
			ePR ₁ E	S.	00 23 13			
			e(ScP)E	S.	00 27 41			
			iSE	S.	00 27 59			
			e(SR ₁)N	S.	00 30 57			
			eE	S.	00 31 49			
			eLE	S.	00 33 20			
		F	S.	01.6				
		Fl.	ePZ	G.W.	00 21 37	$\Delta_{P-H} = 42.1$ $\Delta_{meas} = 42.0$		
			eZ	G.W.	00 22 22			
			ePR ₁ Z	G.W.	00 23 25			
			eSE	G.W.	00 27 53			
			e(SR ₁)N	G.W.	00 30 36			
			eE	G.W.	00 31 50			
			eLE	G.W.	00 33 21			
			F	G.W.	01.6			
			150	May 6	S.L.		ePZ	M.S.
151	May 7		S.L.	iPZ	M.S.		15 18 15	Region: 58° N., 104° W. H = 15 ^h 10.0 ^m
		e(PR ₁)Z		M.S.	15 20 04			
		eSE		S.	15 25 01			
		eScSN		S.	15 28 23			
		eLE		S.	15 32.7			
		F	S.	16.5				
		Fl.	eN	G.W.	15 25 23			
			cScSN	G.W.	15 28 22			
			F	G.W.	16.5			

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No.	Date	Sta	Phase	Inst	h m s	Remarks.
152	May 9	S.L.	ePZ	M.S.	14 37 08	H = 14 ^h 29.9 ^m Epicentral Region: 3° N., 54.5° W. Depth of Focus: 75±km.
			epP Z	M.S.	14 37 19	
			iSE	S.	14 42 59	
			eSR ₁ E	S.	14 45 22	
		F	S.	15.6		
		Fl.	iSE	G.W.	14 43 02	
eSR ₁ E	G.W.		14 46 03			
F	G.W.		15.4			
153	May 9	S.L.	eZ	M.S.	19 34 12	May not be seismic.
			eZ	M.S.	19 39 02	
154	May 11	S.L.	(e)Z	M.S.	08 14 39	Very Weak.
155	May 12	S.L.	e(L)E	S.	07 54	
156	May 13	S.L.	eZ	M.S.	02 51 42	Weak; indefinite beginning.
157	May 13	S.L.	ePZ	M.S.	22 10 34	
			eLE	S.	22 24	
		Fl.	eLE	S.	22 24.3	
158	May 14	S.L.	iPZ	M.S.	11 07 38	H = 05 ^h 54.5 ^m Region: 175° W., 14° S. Probably deeper than normal.
			ePR ₁ Z	M.S.	11 11 26	
			eSKSE	S.	11 17 59	
		Fl.	ePZ	G.W.	11 07 38	
			ePR ₁ Z	G.W.	11 11 27	
			eSKSE	G.W.	11 17 59	
159	May 14	S.L.	eZ	M.S.	17 37 53	Very weak.
160	May 15	Fl.	eE	G.W.	19 45 19	
			eE	G.W.	19 47 55	
			eLE	G.W.	20 11 --	
161	May 17	S.L.	ePZ	M.S.	07 07 20	
162	May 18	S.L.	ePR ₁ Z	M.S.	05 02 39	H = 01 ^h 43 ^m 14 ^s Epicentral Region: 1°5' S., 151° E. Δ _{PR₁-H} = 113°5' Δ _{meas} = 113°3'
			eSKSE	S.	05 08 37	
			eSKKSE	S.	05 09 45	
			iSPE	S.	05 12 11	
			eSR ₂ E	S.	05 22 44	
			eLE	S.	05 35 --	
			F	S.	07.1	

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No.	Date	Sta	Phase	Inst	h m s	Remarks
162 (Con't.)	May 18	Fl.	ePR ₁ Z	G.W.	05 02 38	$\Delta_{PR_1-H} = 113^{\circ}3$ $\Delta_{meas} = 113^{\circ}2$
			eZ	G.W.	05 03 11	
			eSKSE	G.W.	05 08 39	
			eSKKSE	G.W.	05 09 44	
			eSPE	G.W.	05 12 11	
			eSR ₂ E	G.W.	05 22 31	
			F	G.W.	06.9	
163	May 18	S.L.	ePZ	M.S.	20 07 47	H = 19 ^h 55.5 ^m Epicentral Region: 110° W., 41 1/2° S. $\Delta_{P-H} = 81^{\circ}8$ $\Delta_{meas} = 82^{\circ}1$
			eE	S.	20 18 08	
			eE	S.	20 23 37	
			F	S.	21.0	
		Fl.	ePZ	G.W.	20 07 47	$\Delta_{P-H} = 81^{\circ}8$ $\Delta_{meas} = 82^{\circ}2$
			eN	G.W.	20 18 11	
			eN	G.W.	20 23 --	
			F	G.W.	20.9	
164	May 19	S.L.	ePR ₁ Z	M.S.	00 38 41	H = 00 ^h 19.3 ^m Epicentral Region: 2° S., 152 1/2° E. $\Delta_{PR_1-H} = 113^{\circ}2$
			eSKSE	S.	00 44 37	
			eSKKSE	S.	00 45 47	
			iSPE	S.	00 48 14	
			eE	S.	00 58 03	
			eSR ₂ E	S.	00 58 48	
			eLE	S.	01 12 --	
			F	S.	03.3	
			Fl.	ePR ₁ Z	G.W.	
		eE		G.W.	00 41 53	
		eSKSE		G.W.	00 44 43	
		eSKKSE		G.W.	00 45 45	
		eSPE		G.W.	00 48 09	
		eSR ₁ E		G.W.	00 54 08	
		eSR ₂ E		G.W.	00 58 47	
		eLE	G.W.	01 12 --		
F	G.W.	03.4				
165	May 20	S.L.	eZ	M.S.	01 01.2	Weak beginning.
			eE	S.	01 08 07	
			eLE	S.	01 10 13	
		Fl.	eLE	G.W.	01 10 22	
166	May 20	S.L.	ePZ	M.S.	22 43 41	
167	May 20	S.L.	ePZ	M.S.	23 38 33	
			eE	S.	23 45 18	
			eLE	S.	23 53 --	
		Fl.	ePZ	G.W.	23 38 35	
			eLE	G.W.	23 54.5	

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No.	Date	Sta	Phase	Inst	h m s	Remarks
168	May 21	S.L.	ePZ	M.S.	00 24 40	Very weak beginning.
			eE	S.	00 36 47	
			e(L)E	S.	00 40 --	
		Fl.	e(L)E	G.W.	00 40 --	
169	May 21	S.L.	ePZ	M.S.	00 45 01	Weak.
170	May 21	S.L.	ePZ	M.S.	04 50 56	$\Delta P-H = 49^{\circ}4$ $\Delta_{meas} = 49^{\circ}6$
			iPZ	M.S.	04 50 59	
			eSE	S.	04 58 14	
			eSR ₁ E	S.	05 01 34	
			eLE	S.	05 05 44	
		F	S.	05 38 --		
		Fl.	ePZ	G.W.	04 50 59	Epicentral Region: 11 ^o 1 N., 44 ^o W. H = 04h42m08s $\Delta P-H = 49^{\circ}8$ $\Delta_{meas} = 49^{\circ}8$
eSE	G.W.	04 58 17				
eLE	G.W.	05 06 --				
F	G.W.	05 35 --				
171	May 21	Fl.	ePZ	G.W.	17 12 53	U.S.C.G.S. gives: H = 17 ^h 07.1 ^m Epicentral Region: 19 1/2 ^o N., 71 ^o W.
			eSE	G.W.	17 17 14	
			F	G.W.	17 32 --	
172	May 23	S.L.	iPZ	M.S.	10 48 05	H = 10 ^h 38 ^m 30 ^s Epicentral Region: 52 ^o N., 171 1/2 ^o W. $\Delta P-H = 55^{\circ}9$
			eSE	S.	10 55 47	
			eLE	S.	11 04.5	
			eME	S.	11 09 --	
			F	S.	12.0	
		Fl.	eSN	G.W.	10 55 44	$\Delta S-H = 55^{\circ}0$
173	May 24	S.L.	ePZ	M.S.	01 35 50	Epicenter: 20 ^o 0 N, 70 ^o 8 W. H = 01 ^h 30 ^m 26 ^s $\Delta P-H = 24^{\circ}9$ $\Delta_{meas} = 25^{\circ}1$
			eSE	S.	01 40 14	
			eLE	S.	01 42 16	
			F	S.	02.2	
		Fl.	ePZ	G.W.	01 35 56	$\Delta P-H = 25^{\circ}5$ $\Delta_{meas} = 25^{\circ}3$
			eSE	G.W.	01 40 30	
			F	G.W.	02.1	
174	May 25	S.L.	eP	M.S.	01 19 29	H = 01 ^h 06 ^m 37 ^s $\Delta S-H = 102^{\circ}5$ $\Delta_{meas} = 102^{\circ}7$ Epicenter: 21 ^o 9 S., 179 ^o 2 W. Depth = 625 \pm km.
			pP	M.S.	01 21 42	
			SP	M.S.	01 22 53	
			PKP	M.S.	01 23 21	
			PR ₁	M.S.	01 23 50	
			pPR ₁	M.S.	01 25 46	
			pPKP	M.S.	01 25 48	
			PR ₂	M.S.	01 26 13	
			SKS	S.	01 29 07	

(Con't. on next page)

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No.	Date	Sta	Phase	Inst	h m s	Remarks	
174 (Con't.)	May 25	S.L.	SKKS	S.	01 29 52		
			eS	S.	01 30 24		
			SP	S.	01 32 01		
			PS	S.	01 33 25		
			sS	S.	01 34 29		
			SR ₁	S.	01 37 29		
			SR ₂	S.	01 41 26		
		Fl.	eFZ	G.W.	01 19 29		Δ _{P-H} = 102 ⁰ .0 Δ _{meas} = 102 ⁰ .6
			epFZ	G.W.	01 21 44		
			isPZ	G.W.	01 22 55		
			iPR ₁ Z	G.W.	01 23 50		
			eE	G.W.	01 26 54		
			iSKSE	G.W.	01 29 08		
			iSKKSE	G.W.	01 29 53		
			eSE	G.W.	01 30 30		
			iSFE	G.W.	01 32 08		
			iE	G.W.	01 33 01		
			esSE	G.W.	01 34 32		
			eSR ₁ E	G.W.	01 37 41		
			F	G.W.	04.3		
175	May 25	S.L.	iPR ₁ Z	M.S.	13 17 30	H = 12h58.1 ^m Epicentral Region: 2° S., 152° E. Δ _{P-H} = 131 ⁰ .5 Δ _{meas} = 131 ⁰ .1	
			iZ	M.S.	13 17 53		
			eE	S.	13 18 11		
			iPR ₂ E	S.	13 19 58		
			iSKSE	S.	13 23 30		
			iSKKSE	S.	13 24 32		
			iSE	S.	13 25 28		
			iE	S.	13 26 18		
			iPSE	S.	13 27 01		
			F	S.	17.8		
176	May 28	S.L.	iFZ	M.S.	00 05 04		
177	May 29	S.L.	iFZ	M.S.	02 50 02	H = 02h43 ^m 20 ^s Epicentral Region: 5 ⁰ 9 N., 82 ⁰ 3 W. Δ _{P-H} = 33 ⁰ .3 Δ _{meas} = 33 ⁰ .3	
			eSE	M.S.	02 55 28		
			e(SR ₁)E	S.	02 57 42		
			eSR ₂ E	S.	02 58 20		
178	May 29	S.L.	eFZ	M.S.	02 59 27		
179	May 29	S.L.	ePZ	M.S.	15 30 30	H = 15h19.0 ^m Region: 33° S., 53° W.	
			e(S)E	S.	15 39 44		
180	May 30	S.L.	e(P)Z	M.S.	03 52 47		
181	May 30	S.L.	eP'Z	M.S.	10 15 01	Indian Ocean?	
			eZ	M.S.	10 17 31		
182	May 31	S.L.	iFZ	M.S.	11 01 45	South America.	

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Minor Seismic Activity

Station	Date	From h m s	To h m s	Remarks
S.L.	May 4	08.8	09.3	Pas. has a "P" at 08 ^h 05 ^m 07 ^s
S.L.	5	06.4	07.5	
Fl.	5	06.6	07.4	
S.L.	6	02.7	03.5	
S.L.	7	19.2	19.4	
S.L.	8	17.1	17.4	
S.L.	14	00.6	00.8	
S.L.	19	17 26 --	18 08 --	
S.L.	22	16 44 --	17 00 --	
Fl.				

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No.	Date	Sta	Phase	Inst	h m s	Remarks
183	June 1	S.L.	eE	S.	02 49 54	
184	June 3	S.L.	eLE	S.	01 54.5	
		Fl.	eLE	G.W.	01 54.5	
185	June 3	S.L.	iSKSE	S.	04 33 18	H = 04 ^h 10.8 m Region: 28°N., 145°E. About 400 km. deep. ΔSKS -H = 95.2 Δ _{meas} = 95.2
		Fl.	iPR ₁ Z	G.W.	04 27 23	Δ _{PR₁} -H = 95.2
			epPR ₁ Z	G.W.	04 28 41	Δ _{meas} = 95.2
			iSKSE	G.W.	04 33 18	
			eSE	G.W.	04 34 07	
			eE	G.W.	04 36 14	
186	June 3	S.L.	e(P)Z	M.S.	07 18 24	Epicentral Region by U.S.C.G.S. 20° N., 63° W. H = 07 ^h 12m13s
			epPR ₁ Z	M.S.	07 19 08	
			eLE	S.	07 26.3	
			F	S.	08.1	
		Fl.	eLE	G.W.	07 26.4	
187	June 3	S.L.	eE	S.	16 01 11	U.S.C.G.S. gives: H = 15 ^h 46.4m Epicentral Region: 8° S., 80° W. Slight depth.
			eE	S.	16 03 19	
188	June 4	S.L.	iSE	S.	13 46 20	
		Fl.	e(L)E	S.	13 59 --	
			F	S.	15.4	
189	June 4	S.L.	iSE	S.	19 57 08	
		Fl.	e(L)E	S.	20 09.5	
			iSE	G.W.	19 57 06	Beginning masked by microseisms.
		e(L)E	G.W.	20 10 --		
190	June 5	S.L.	eLE	S.	01 19 --	

No.	Date	Sta	Phase	Inst	h m s	Remarks	
191	June 6	S.L.	eSKKSE	S.	04 10 55	U.S.C.G.S. gives: H = 03 ^h 44.2 ^m Epicentral Region: 5° S., 152° E.	
			eSE	S.	04 11 41		
			ePSE	S.	04 13 32		
			eLE	S.	04 38 --		
192	June 7	S.L.	eLE	S.	06 41 --		
		Fl.	eLE	G.W.	06 41.5		
193	June 8	S.L.	iPZ	M.S.	02 46 19	H = 02 ^h 38 ^m 15 ^s Δ P-H = 50°9 Δ meas = 60°0 Epicentral Region: 9 1/2° S., 72° W. Depth: 600+km.	
			iPcPZ	M.S.	02 47 23		
			epPZ	M.S.	02 48 11		
			iSN	S.	02 52 53		
			eScSN	S.	02 55 06		
			eE	S.	02 56 39		
		Fl.	iPZ	G.W.	02 46 23		
			iSN	G.W.	02 52 58		
194	June 8	S.L.	ePZ	M.S.	15 39 59		
195	June 9	S.L.	ePR ₁ Z	M.S.	20 54 44	U.S.C.G.S. gives: H = 20 ^h 35.0 ^m Epicentral Region: 4° S., 150° E.	
			eSKSE	M.S.	21 00 24		
			e(PPS)E	M.S.	21 05 53		
			eSR ₁ E	M.S.	21 10 55		
			F	M.S.	23.6		
		Fl.	ePR ₁ Z	G.W.	20 54 43		
			e(PPS)E	G.W.	21 05 52		
			eE	G.W.	21 10 12		
	F	G.W.	23.4				
196	June 10	Fl.	eE	G.W.	14 44 09		
			eIE	G.W.	14 56 --		
197	June 11	S.L.	eSE	S.	19 32 01	H = 19 ^h 18 ^m 54 ^s Epicentral Region: 0°7' N., 85°7' W. Δ meas = 38°1	
			eSR ₁ E	S.	19 34 31		
			M	S.	19 40 --		
			F	S.	20.5		
		Fl.	ePZ	G.W.	19 26 14		Δ P-H = 38°1 Δ meas = 38°3
			iSE	G.W.	19 32 07		
			eSR ₁ E	G.W.	19 34 35		
			F	G.W.	20.4		
198	June 12	S.L.	ePE	W.A.	10 50 34	Epicenter by Pasadena: 33° 58' N., 116° 45' W. H = 10 ^h 45 ^m 34 ^s San Andreas fault in San Gorgonio Pass.	
			eLN	S.	10 57 14		
			eME	S.	10 58 55		
		Fl.	ePE	W.A.	10 50 32		
			eME	G.W.	10 58 48		

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199	June 12	S.L.	ePE	W.A.	11 21 30		
			iPE	W.A.	11 21 34		
			eSE	S.	11 25 42		
			iLN	S.	11 28 16		
			iME	S.	11 29 48		
		F	S.	11.9			
		Fl.	ePE	W.A.	11 21 29		
			iPE	W.A.	11 21 33		
			eSE	G.W.	11 25 40		
			eLN	G.W.	11 28 03		
eME	G.W.		11 29 43				
200	June 13	S.L.	iPZ	M.S.	10 04 42		
			iZ	M.S.	10 04 58		
			eE	S.	10 12 20		
		Fl.	iPZ	G.W.	10 04 42		
201	June 13	S.L.	iPZ	M.S.	13 48 56	H = 10h40.2m Region: 7°S., 72°W.	
		Fl.	iPZ	G.W.	13 48 58		
202	June 15	S.L.	e(P)Z	M.S.	16 45 32	Weak.	
203	June 16	S.L.	ePZ	M.S.	00 18 51		
			iZ	M.S.	00 19 04		
		Fl.	iZ	G.W.	00 19 04		
204	June 16	S.L.	iPZ	M.S.	04 30 21	Near Japan. Depth: 100±km.	
			ipPZ	M.S.	04 30 40		
			eSE	S.	04 40 48		
			esSE	S.	04 41 20		
		Fl.	eSE	G.W.	04 40 47		
			esSE	G.W.	04 41 19		
205	June 16	S.L.	iPZ	M.S.	21 56 41	H = 21h51m37s Epicenter: 19°4 N., 104°7 W. $\Delta_{P-H} = 22^{\circ}9$ $\Delta_{meas} = 22^{\circ}9$	
			iZ	M.S.	21 57 16		
			iZ	M.S.	21 57 31		
			eSN	S.	22 00 49		
			iSN	S.	22 00 55		
			iE	S.	22 01 14		
			iSR ₁ E	S.	22 01 53		
			eLE	S.	22 02.7		
			Fl.	iPZ	G.W.		21 56 42
				iE	W.A.		21 57 14
		iE		W.A.	21 57 33		
		iSN		G.W.	22 00 59		
		eL	G.W.	22 03 --	$\Delta_{P-H} = 23^{\circ}0$ $\Delta_{meas} = 22^{\circ}9$		

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206	June 18	S.L.	eLE	S.	02 50 --	
207	June 18	S.L.	e(P)Z eMN	M.S. S.	22 17 37 22 24.2	U.S.C.G.S. Reports: H = 22h12.3m Epicentral Region: 26° N., 110° W.
208	June 19	S.L.	MN	S.	00 16.2	Epicenter by Pasadena: 33° 52' N., 118° 13' W. H = 00h03m33s
209	June 19	S.L.	M	S.	03 18.7	Epicenter by Pasadena: 33° 52' N., 118° 13' W. H = 03h06m07s
210	June 20	S.L.	iPZ iE iE Fl. iE	M.S. S. S. G.W.	02 02 50 02 10 41 02 12 00 02 10 42	
211	June 20	S.L.	eFZ eSE Fl. eSE	M.S. S. G.W.	12 29 08 12 39 36 12 39 38	Kurile Islands?
212	June 21	S.L.	ePE ePR ₁ E eSKSE iSKKSE ePS eSR ₁ E Fl. ePZ ePR ₁ Z eSKSE eSKKSE ePSE eSR ₁ E	S. S. S. S. S. S. G.W. G.W. G.W. G.W. G.W. G.W.	11 12 58 11 17 29 11 23 37 11 24 34 11 26 58 11 33 28 11 12 56 11 17 29 11 23 37 11 24 31 11 26 59 11 33 39	H = 10h55m20s Epicenter: 21°6 S., 169°3 E. Probably deeper than normal. $\Delta P-H = 111^{\circ}1$ $\Delta_{meas} = 111^{\circ}1$ $\Delta P-H = 110^{\circ}7$ $\Delta_{meas} = 111^{\circ}0$
213	June 21	S.L.	ePZ eE Fl. eZ	M.S. S. G.W.	17 12 30 17 22 08 17 22 07	Weak - no surface waves.
214	June 22	S.L.	e(P)Z (e)E F	M.S. S. S.	00 45 44 00 52 11 01 09 --	Weak.
215	June 23	S.L.	eZ	M.S.	06 47 58	

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No.	Date	Sta	Phase	Inst	h m s	Remarks
216	June 23	S.L.	eZ eE	M.S. S.	07 42 32 07 50 34	Weak.
217	June 25	S.L.	ePZ iPZ iZ eSN F	M.S. M.S. M.S. S. S.	01 13 35 01 13 36 01 13 44 01 18 00 02.6	Epicenter: 14°5' N., 93°3' W. H = 01 ^h 08 ^m 18 ^s $\Delta P-H = 24.2$ $\Delta_{meas} = 24.2$
		Fl.	ePZ eSZ eSE eE F	G.W. G.W. G.W. G.W. G.W.	01 13 35 01 18 12 01 18 09 01 25 51 02.0	$\Delta P-H = 24.2$ $\Delta_{meas} = 24.3$
218	June 25	S.L.	ePZ iPZ eSN F	M.S. M.S. S. S.	04 28 56 04 29 00 04 39 21 05.8	U.S.C.G.S. gives: Epicentral Region: 39° N., 29° E. Western Turkey.
		Fl.	ePZ iPZ eSE F	G.W. G.W. G.W. G.W.	04 28 54 04 28 57 04 39 25 05.6	Time Uncertain.
219	June 25	S.L.	ePZ eSN F	M.S. S. S.	07 10 23 07 20 54 07.9	Aftershock of No. 218.
		Fl.	ePZ eSN	G.W. G.W.	07 10 21 07 20 51	Time Uncertain.
220	June 25	S.L.	ePZ eSE	M.S. S.	08 16 43 08 24 20	Epicentral Region: 51 1/2° N., 72 1/2° W. H = 08 ^h 07 ^m 03 ^s $\Delta P-H = 56.7$ $\Delta_{meas} = 56.7$
		Fl.	eSE	G.W.	08 24 18	
221	June 25	S.L.	ePZ eSE	M.S. S.	08 19 56 08 27 33	
222	June 26	S.L.	eZ eN eE F	M.S. S. S. S.	14 23 53 14 44 22 14 46 07 17.0	U.S.C.G.S. gives: H = 04 ^h 16.3 ^m Epicentral Region: 39° N., 29° W.
		Fl.	eE eE	G.W. G.W.	14 44 24 14 46 05	Time Uncertain.

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No.	Date	Sta	Phase	Inst	h m s	Remarks
223	June 26	S.L.	iPZ	M.S.	17 53 36	Epicentral Region: 1° S., 24° W. H = 17 ^h 42.2 ^m
			iZ	M.S.	17 53 40	
			iZ	M.S.	17 53 50	
			eZ	M.S.	17 54 35	
			iZ	M.S.	17 55 18	
			eSEN	S.	18 03 00	
			eE	S.	18 03 37	
			eN	S.	18 08 40	
			eLE F	S. S.	18 16 10 19.5	
224	June 27	S.L.	e(P)Z	M.S.	03 31 48	No S phases.
225	June 27	S.L.	(e)Z	M.S.	23 40 55	Foreshock of #228?
			eZ	M.S.	23 41 10	
			eN	S.	23 45 17	
			e(M)N	S.	23 50.2	
			F	S.	24.2	
226	June 28	S.L.	ePZ	M.S.	05 37 05	Foreshock of # 228.
			eE	S.	05 41 31	
			F	S.	Lost	
227	June 28	S.L.	ePZ	M.S.	05 51 33	Foreshock of # 228.
228	June 28	S.L.	iPZ	M.S.	08 04 10	H = 07 ^h 58 ^m 50 ^s Epicenter: 14°1 N., 92°5 W. $\Delta P-H = 24.5$ $\Delta_{meas} = 24.5$
			iZ	M.S.	08 07 14	
			iSE	S.	08 08 35	
			eE	S.	08 11 09	
			F	S.	Lost	
		C.G.	ePN	W.A.	08 03 55	$\Delta P-H = 23.0$ $\Delta_{meas} = 23.0$
			eSN	W.A.	08 08 06	
			F	W.A.	08.8	
229	June 28	S.L.	iPZ	M.S.	08 29 41	Aftershock of # 228.
230	June 28	S.L.	ePZ	M.S.	09 09 21	Aftershock of # 228.
231	June 28	S.L.	ePZ	M.S.	10 00 38	Aftershock of # 228.
232	June 28	S.L.	ePZ	M.S.	10 58 37	Aftershock of # 228.
233	June 29	S.L.	ePZ	M.S.	01 42 34	Aftershock of # 228.
			F	M.S.	02.3	
234	June 29	S.L.	ePZ	M.S.	06 25 33	Aftershock of # 228.
235	June 29	S.L.	ePZ	M.S.	11 38 44	Aftershock of # 228.
			eN	S.	11 45 59	
			F	M.S.	12.3	

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Minor Seismic Activity

Station	Date	From			G.M.T.	To			Remarks
		h	m	s		h	m	s	
S.L.	June 2	01	03	--		01	22	--	
S.L.	2	09	.1			09	.5		
S.L.	3	09	.1			09	.9		
S.L.	3	12	26	--		12	35	--	
S.L.	4	00	18	--		00	24	--	
S.L.	6	12	35	--		12	47	--	
S.L.	7	00	47.5			00	55.5		
S.L.	12	02	.5			03	.1		
S.L.	13	08	40	--		08	51	--	Also Fl.
S.L.	18	09	17	--		09	23	--	
S.L.	19	02	30.5			02	47.5		
S.L.	26	04	18	--		04	50	--	
S.L.	26	05	40	--		06	10	--	
S.L.	26	19	24	--		19	33	--	
S.L.	28	19	02.5			19	14	--	

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No.	Date	Station	Phase	Inst.	h m s	Remarks
236	July 1	S.L.	ePZ eSE F	M.S. S. S.	11 25 13 11 29 25 12.0	
237	July 2	S.L.	ePZ eSN F	M.S. S.	04 00 44 04 05 11	Region: 13° N., 92° W. H = 03h55.2m
238	July 2	S.L.	e(SKS)N eN	S. S.	09 00 01 09 03 41	Southwest Pacific Deep?
239	July 2	S.L.	ePZ F	M.S. S.	09 12 02 09 45	
240	July 2	S.L.	ePZ iPZ iSN F	M.S. M.S. S. S.	22 17 37 22 17 43 22 22 08 23 4	Epicentral Region: 13° N., 93° W. H = 22h12m07s $\Delta P-H = 2596$ $\Delta_{meas} = 2598$
241	July 3	S.L.	e(P)Z eSN F	M.S. S. S.	04 27 37 04 32 05 04 58	Aftershock of No. 240
242	July 3	S.L.	eLN eME F	S. S. S.	05 50 12 05 52 00 05 55	Pasadena gives: 35° 21' N., 117° 52' W. H = 05h38m23s
243	July 3	S.L.	iPZ	M.S.	07 30 42	
244	July 4	S.L.	e(P)Z eN F	M.S. S. S.	03 28 07 03 33 03 03 55	Weak
245	July 5	S.L.	iPZ eSN F	M.S. S. S.	09 51 58 09 56 28 10.3	Off the Pacific coast of Guatemala
246	July 5	S.L.	e(P)Z F	M.S. S.	10 18(54) 12.3	Very weak

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
247	July 9	S.L.	e(P)Z	M.S.	02 53 27	Weak.	
			eLN	S.	03 02 22		
			F	S.	03 08 --		
248	July 10	S.L.	eE	W.A.	12 54 12	Mac instruments not operating.	
249	July 10	Fl.	ePZ	G.W.	13 38 06	Near Samoa. U.S.C.G.S. gives: 14° S., 176° W. H = 13 ^h 24.9 ^m h = 150km.	
			i(pP)Z	G.W.	13 38 54		
			iSKSE	G.W.	13 48 27		
			F	G.W.	14 48 --		
250	July 10	S.L.	ePR ₁ Z	M.S.	16 06 28	Region: 31°S., 178°W. H = 15 ^h 47 ^m 46 ^s $\Delta_{PR_1-H} = 107^{\circ}7$ $\Delta_{meas} = 107^{\circ}7$	
			e(SKS)E	S.	16 12 32		
			i(SKKS)E	S.	16 13 25		
			ePSE	S.	16 15 48		
		F	S.	18 25 --			
		Fl.	ePR ₁ Z	G.W.	16 06 23		$\Delta_{PR_1-H} = 107^{\circ}91$ $\Delta_{meas} = 107^{\circ}6$
			e(SKS)E	G.W.	16 12 31		
			e(SKKS)E	G.W.	16 13 25		
F	G.W.		18 21 --				
251	July 12	S.L.	iPZ	M.S.	07 53 42	No surface work. Deep?	
252	July 12	S.L.	ePZ	M.S.	08 09 13	Probably a foreshock of # 253.	
			eSN	S.	08 15 37		
			e(SR ₂)N	S.	08 18 52		
			F	S.	Lost in following.		
		Fl.	eZ	G.W.	08 09 26		
			eSE	G.W.	08 15 39		
F	G.W.	Lost in following.					
253	July 12	S.L.	ePZ	M.S.	08 22 31	Epicentral Region: 18°7 N., 178°4 W. H = 08 ^h 14 ^m 45 ^s $\Delta_{P-H} = 41^{\circ}3$ $\Delta_{meas} = 41^{\circ}4$	
			iSN	S.	08 28 57		
			i(SR ₂)N	S.	08 32 13		
			F	S.	09 16 --		
		Fl.	ePZ	G.W.	08 22 39		$\Delta_{P-H} = 41^{\circ}5$ $\Delta_{meas} = 41^{\circ}6$
			iSE	G.W.	08 29 02		
			F	G.W.	09 19 --		
254	July 12	S.L.	ePZ	M.S.	19 34 47	14°7 N., 114°5 W. H = 19 ^h 30 ^m 22 ^s $\Delta_{P-H} = 19^{\circ}3$ $\Delta_{meas} = 19^{\circ}3$	
			iPZ	M.S.	19 34 48		
			eSE	S.	19 38 29		
			i(L)E	S.	19 40 26		
			F	S.	20 44 --		
		Fl.	ePZ	G.W.	19 34 46		$\Delta_{P-H} = 19^{\circ}2$ $\Delta_{meas} = 19^{\circ}2$
			eSE	G.W.	19 38 22		
			i(L)E	G.W.	19 40 10		

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No.	Date	Sta	Phase	Inst	h m s	Remarks							
255	July 13	S.L.	ePZ	M.S.	10 58 39	Japan. $\Delta =$ about 94°							
			eSKSE	S.	11 09 18								
			eSKKSE	S.	11 09 54								
			eN	S.	11 10 01								
			e(S)N	S.	11 10 15								
			e(PPS)N	S.	11 12 05								
		F	S.	13.1									
		Fl.	eZ	G.W.	10 58 46	Time doubtful.							
			eSKSE	G.W.	10 09 20								
			eSKKSE	G.W.	10 09 57								
F	G.W.		12 52 --										
256	July 13	S.L.	ePZ	M.S.	19 55 57	Epicentral Region: $16^{\circ}2$ N., $97^{\circ}0$ W. $\Delta_{P-H} = 23^{\circ}2$ $\Delta_{meas} = 23^{\circ}2$ $H = 19h50m50s$							
			eSN	S.	20 00 09								
			F	S.	20 23 --								
		Fl.	ePZ	G.W.	19 55 58		$\Delta_{P-H} = 23^{\circ}3$						
			eSE	G.W.	20 00 16		$\Delta_{meas} = 23^{\circ}3$						
			F	G.W.	20 18 --								
			257	July 15	S.L.		e(P)Z	M.S.	23 44 27	Very Weak.			
							258	July 16	S.L.	ePZ	M.S.	10 32 11	U.S.C.G.S. gives: 22° S., 175° W. $H = 10h19.1m$ $h = 450^{\pm} km.$
										eZ	M.S.	10 35 08	
			eZ	M.S.	10 36 38								
iSN	S.	10 43 04											
eE	S.	10 44 27											
e(SR ₁)N	S.	10 50 00											
F	S.	11 33 --											
Fl.	eSE	G.W.	10 42 38	Time doubtful.									
	eE	G.W.	10 43 07										
	e(sS)E	G.W.	10 45 26										
	e(SR ₁)E	G.W.	10 50 09										
	F	G.W.	11 01 --										
259	July 17	S.L.	ePZ	M.S.	11 07 04	Turkey. $\Delta =$ about 95°							
			e(S)E	S.	11 18 12								
			e(PPS)E	S.	11 20 08								
			e(SR ₁)E	S.	11 24 53								
			F	S.	13.5								
260	July 19	S.L.	e(P)Z	M.S.	10 34 43	Region: 33° N., 140° E. $H = 10h21m18s$ $\Delta_{PS-H} = 95^{\circ}1$ $\Delta_{meas} = 94^{\circ}4$							
			e(SKS)N	S.	10 45 22								
			iSE	S.	10 46 00								
			iPSN	S.	10 47 05								
			i(PPS)N	S.	10 48 08								
			eSR ₁ N	S.	10 52 27								
			eSR ₂ E	S.	10 55 28								
			eLN	S.	11 06 48								
			F	S.	Lost.								

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
260 (Con't.)	July 19	Fl.	ePZ	G.W.	10 34 37	$\Delta_{FR_1-H} = 94.97$ $\Delta_{meas} = 94.92$
			ePR ₁ Z	G.W.	10 38 28	
			cSKSN	G.W.	10 45 05	
			iSE	G.W.	10 45 57	
			e(PS)E	G.W.	10 47 14	
			eE	G.W.	10 48 28	
			eSR ₁ E F	G.W. G.W.	10 52 34 Lost	
261	July 19	S.L.	ePZ	M.S.	11 15 49	South America.
262	July 19	S.L.	ePZ	M.S.	11 28 44	
263	July 19	S.L.	ePZ	M.S.	11 35 27	
264	July 19	S.L.	ePZ	M.S.	16 35 18	Central America.
			eSE	S.	16 40 18	
			F	S.	17 +	
		Fl.	ePZ	G.W.	16 35 25	Time doubtful.
			e(S)E	G.W.	16 39 46	
			F	G.W.	17 12 --	
265	July 19	Fl.	ePZ	G.W.	18 04 08	Central America? Time doubtful.
			eSE	G.W.	18 09 16	
			F	G.W.	18 45 --	
266	July 20	Fl.	eLE	G.W.	00 03.5	Time doubtful.
			F	G.W.	00 52 --	
267	July 20	Fl.	eLE	G.W.	02 47 18	Time doubtful.
			F	G.W.	02 57 --	
268	July 20	S.L.	eSKSN	S.	20 31 04	Time doubtful.
			eSKSE	S.	20 31 37	
			e(SR ₁)E	S.	20 37 19	
			eN	S.	20 38 26	
			F	S.	22 17 --	
		Fl.	eSKSE eSKKSE F	G.W. G.W. G.W.	20 31 07 20 31 41 22 05 --	
269	July 21	S.L.	e(P)Z	M.S.	02 24 57	
270	July 21	S.L.	eZ	M.S.	10 30 15	
			e(L)N	S.	10 40 32	
			F	S.	10 44 --	
271	July 21	S.L.	ePZ	M.S.	12 30 54	Epicentral Region: 43°0 N., 127°2 W. H = 12h24m54s $\Delta_{P-H} = 28.6$ $\Delta_{meas} = 28.6$
			eZ	M.S.	12 30 59	
			iZ	M.S.	12 31 04	
			eSE	S.	12 35 37	
			eLN	S.	12 38 30	
			F	S.	13 17 --	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
271 (Con't.)	July 21	Fl.	ePZ	G.W.	12 30 58	Time doubtful. $\Delta_{\text{meas}} = 23^{\circ}4$
			eSE	G.W.	12 35 40	
			F	G.W.	Lost.	
272	July 21	S.L.	e(P)Z	M.S.	19 04 10	
			eE	S.	19 15 17	
			F	S.	20 22 --	
273	July 22	S.L.	iPZ	M.S.	11 33 28	Deep? Region: $17^{\circ}\text{N.}, 95^{\circ}\text{W.}$ $H = 11^{\text{h}}28^{\text{m}}35^{\text{s}}$ $\Delta_{\text{P-H}} = 21^{\circ}8$ $\Delta_{\text{meas}} = 21^{\circ}9$
			iZ	M.S.	11 33 45	
			iSE	S.	11 37 28	
			iE	S.	11 37 45	
			iN	S.	11 38 08	
			iSR ₁ N	S.	11 38 20	
			iSR ₂ N	S.	11 38 27	
			F	S.	12 12 --	
		Fl.	iPZ	G.W.	11 33 30	$\Delta_{\text{P-H}} = 22^{\circ}0$ $\Delta_{\text{meas}} = 22^{\circ}0$
			iZ	G.W.	11 33 49	
			iSE	G.W.	11 37 30	
			iE	G.W.	11 37 49	
			F	G.W.	12 04 --	
274	July 22	S.L.	ePZ	M.S.	11 56 40	Aftershock?
275	July 23	S.L.	eZ	M.S.	15 52(54)	Very Weak.
276	July 23	S.L.	iPZ	M.S.	16 24 04	Epicentral Region: $23^{\circ}3 \text{ S.}, 67^{\circ}0 \text{ W.}$ $H = 16^{\text{h}}13^{\text{m}}50^{\text{s}}$ $h = 250^{\pm}\text{km.}$ $\Delta_{\text{P-H}} = 65^{\circ}6$ $\Delta_{\text{meas}} = 65^{\circ}9$
			ipFZ	M.S.	16 24 59	
			ePR ₁ Z	M.S.	16 26 41	
			eSE	S.	16 32 26	
			e(PS)E	S.	16 33 30	
			eE	S.	16 35 17	
			F	S.	17 04 --	
277	July 24	S.L.	eSKSE	S.	07 55 36	Region: $10^{\circ}5 \text{ S.}, 161^{\circ}\text{E.}$ $H = 07^{\text{h}}30^{\text{m}}27^{\text{s}}$ $h = 50^{\pm}\text{km.}$
			eSKKSE	S.	07 56 40	
			ePSE	S.	07 59 06	
			epPSE	S.	07 59 35	
			ePTSE	S.	08 00 20	
			F		10.0	
278	July 24	S.L.	e(P)Z	M.S.	22 12 58	Weak.
279	July 27	S.L.	iPZ	M.S.	00 13 23	$54^{\circ}3 \text{ N.}, 163^{\circ}5 \text{ W.}$ $H = 00^{\text{h}}04^{\text{m}}30^{\text{s}}$ $h = 80^{\pm}\text{km.}$ $\Delta_{\text{P-H}} = 50^{\circ}8$ $\Delta_{\text{meas}} = 50^{\circ}9$
			ipFN	S.	00 13 40	
			iP _c PZ	M.S.	00 14 31	
			iSN	S.	00 20 37	
			isSN	S.	00 21 08	
			iScSN	S.	00 23 06	
			isScSM	S.	00 23 40	
			F	S.	03.5	
		C.G.	eFE	W.A.	00 13 33	$\Delta_{\text{P-H}} = 52^{\circ}1$ $\Delta_{\text{meas}} = 52^{\circ}2$
			eSE	W.A.	00 20 55	
			F	W.A.	01.0	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
280	July 27	S.L.	ePZ	M.S.	00 52 46	U.S.C.G.S. Gives: 44°07' N., 115°02' W. H = 00h18.3 ^m	
281	July 27	S.L.	eP'Z	M.S.	08 37 47	Region: 12° N., 92°5' E. H = 08h18m10s	
			ePR ₁ Z	M.S.	08 39 58		
			eSKPZ	M.S.	08 41 04		
			eSE	S.	08 47 57		
			eE	S.	08 48 24		
			ePSE	S.	08 50 25		
			eSR ₁ E F	S. S.	08 57 10 10.4		
282	July 27	S.L.	eFZ	M.S.	10 36 46	Weak.	
283	July 28	S.L.	eFZ	M.S.	03 43 10	South America?	
284	July 29	S.L.	ePZ e(M)E F	M.S. S. S.	11 43 03 11 52 17 12.0	Pasadena gives: 40° N., 125° W. H = 11h37m15s	
285	July 29	S.L.	e(P)Z	M.S.	13 08 59	Indefinite beginning.	
286	July 29	S.L.	e(SKS)N e(M)E F	S. S. S.	22 47 36 23 13 -- 24.1		
287	July 30	S.L.	iFZ iZ iZ iSE i(sS)E	M.S. M.S. M.S. S. S.	04 13 02 04 13 05 04 13 08 04 23 17 04 23 36	Approximately: 37° N., 21° W. Possibly deeper than normal.	
		Fl.	ePZ eSE e(sS)E F	G.W. G.W. G.W. G.W.	04 13 03 04 23 17 04 23 37 05.2		
288	July 31	S.L.	eN eN F	W.A. W.A. W.A.	00 52 51 00 53 10 00 55 --		Local shock? Also recorded at Little Rock. (No time marks.)
		Fl.	eE eN F	W.A. W.A. W.A.	00 52 48 00 53 27 00 55 --		
289	July 31	S.L.	e(P)Z eN F	M.S. S. S.	21 34 53 21 39 48 22 06 --		

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Minor Seismic Activity

Station	Date	From h m s	To h m s
S.L.	July 4	01 20	01 38
S.L.	7	19 00	19 46
S.L.	8	01 42	02 16
S.L.	11	19.3	20.2
S.L.	13	00 48	01 56
S.L.	16	00 20	01 31
S.L.	19	01 19	01 25
S.L.	22	06 57	07 20
S.L.	23	10 59	13 33
Fl.	25	05 --	06 --
S.L.	30	00 58	01 33
S.L.	30	09 55	10 48
S.L.	31	18 28	19 06

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
290	Aug. 1	S.L.	ePZ	M.S.	15 33 44	Mexico; Tacubaya gives: 15°8 N., 97°4 W.
			eSN	S.	15 37 56	
			F	S.	15.7	
291	Aug. 2	S.L.	iPZ	M.S.	12 34 13	Region: 10° N., 84° W. H = 12 ^h 28 ^m 10 ^s
			eSN	S.	12 39 14	
			F	S.	13.2	
292	Aug. 2	S.L.	e(SKS)E	S.	18 13 24	
			e(SKKS)E	S.	18 14 06	
			F	S.	19.3	
		Fl.	e(SKS)E	G.W.	18 13 26	
			F	G.W.	19.2	
293	Aug. 2	S.L.	iPZ	M.S.	20 20 30	Off the coast of Chile. Deep?
			eSE	S.	20 29 57	
			eE	S.	20 30 14	
		F	S.	20.6		
		Fl.	eSE	G.W.	20 29 58	
			eE	G.W.	20 30 16	
F	G.W.		20.5			
294	Aug. 2	S.L.	ePZ	M.S.	20 39 55	Very similar to preceding.
			eSE	S.	20 49 22	
			eE	S.	20 49 38	
		F	S.	20.9		
		Fl.	eSE	G.W.	20 49 24	
			F	G.W.	20.9	
295	Aug. 2	S.L.	eLN	S.	23 57 40	
			F	S.	24.6	
296	Aug. 4	S.L.	ePZ	M.S.	20 00 14	Southwest of Central America.
			e(S)N	S.	20 04 27	
			F	S.	20.1	
297	Aug. 4	S.L.	iPZ	M.S.	20 38 36	Approximately: 25° S., 75° W. H = 20 ^h 29.2 ^m Possibly slightly deeper than normal.
			eSN	S.	20 46 18	
			e(ScS)E	S.	20 48 20	
			F	S.	21.3	
		Fl.	eSE	G.W.	20 46 18	
			e(ScS)E	G.W.	20 48 24	

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48.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks		
298	Aug. 5	S.L.	iPZ	M.S.	01 06 28	Foreshock of # 299. H = 00h57m19s		
			e(PcP)Z	M.S.	01 07 39			
			eSN	S.	01 13 56			
			eN	S.	01 14 05			
			eN	S.	01 15 25			
			F	S.	01.5			
			Fl.	iPZ	G.W.		01 06 30	
		eE	G.W.	01 14 00				
		F	G.W.	01.3				
		299	Aug. 5	S.L.	iPZ	M.S.	01 33 19	13°6 S., 92°7 W. H = 01h21m10s $\Delta_{P-H} = 52^{\circ}2$ $\Delta_{meas} = 52^{\circ}1$
iZ	M.S.				01 33 22			
iZ	M.S.				01 34 25			
eSE	S.				01 40 48			
F	S.				02.2			
Fl.	iPZ				G.W.	01 33 21		
eSE	G.W.			01 40 50				
F	G.W.			02.2				
300	Aug. 5			S.L.	ePZ	M.S.	13 12 26	12°1 N., 87°2 W. H = 13h07m00s h = 100±km. $\Delta_{P-H} = 26^{\circ}2$ $\Delta_{meas} = 26^{\circ}3$
					epPZ	M.S.	13 12 40	
		e(PR ₁)Z	M.S.		13 12 53			
		i(PR ₂)Z	M.S.		13 13 21			
		eN	S.		13 16 36			
		eSE	S.		13 16 51			
		i(SR ₁)N	S.		13 17 41			
		iLN	S.		13 19 31			
		F	S.		13.9			
		Fl.	ePZ		G.W.	13 12 28		
eSE	G.W.	13 16 55						
e(SR ₁)E	G.W.	13 17 47						
F	G.W.	13.9						
301	Aug. 6	S.L.	eE	S.	15 53 05	Time Uncertain.		
			eSE	S.	15 53 39			
			F	S.	16.0			
		Fl.	eSE	G.W.	15 53 34			
		F	G.W.	16.0				
302	Aug. 6	S.L.	e(PR ₁)Z	M.S.	18 33 31	Time Uncertain.		
			eN	S.	18 50 33			
			F	S.	21.1			
		Fl.	e(PR ₁)Z	G.W.	18 33 28			
		F	G.W.	20.7				

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
303	Aug. 7	S.L.	ePZ	M.S.	00 12 11	Mexico.
			ePR ₂ Z	M.S.	00 12 46	
			eSN	S.	00 16 13	
			F	S.	00.5	
		Fl.	ePZ	G.W.	00 12 12	
			F	G.W.	00.3	
304	Aug. 7	S.L.	ePZ	M.S.	03 35 08	Epicentral Region: 15°5' S., 73°8' W. H = 03 ^h 25 ^m 32 ^s ΔP-H = 56°2 Δ _{meas} = 56°4 the character of the recordings of this earthquake indicate that it is deeper than normal. However, the present interpretation is based on a normal depth.
			iPZ	M.S.	03 35 09	
			iZ	M.S.	03 35 22	
			iSE	S.	03 43 02	
			iN	S.	03 43 47	
			i(ScS)E	S.	03 44 54	
			iN	S.	03 45 39	
			iN	S.	03 46 14	
			iSR ₁ N	S.	03 47 06	
			i(SR ₂)N	S.	03 48 46	
			i(SR ₃)N	S.	03 49 57	
		F	S.	07.3		
305	Aug. 7	S.L.	ePZ	M.S.	05 07 55	
306	Aug. 7	S.L.	eSKSE	S.	13 09 32	New Hebrides. Δ = about 110°0
			eSE	S.	13 11 09	
			ePSE	S.	13 13 55	
			eE	S.	13 15 13	
			F	S.	Lost	
No record at Saint Louis from 13 ^h 50 ^m August 7 to 14 ^h 30 ^m August 8.						
307	Aug. 7	Fl.	iPZ	G.W.	18 52 29	16°1' N., 97°7' W. H = 18 ^h 47 ^m 17 ^s ΔP-H = 23°7 Δ _{meas} = 23°7
			eSE	G.W.	18 56 46	
			F	G.W.	19.4	
		C.G.	ePN	W.A.	18 52 19	ΔP-H = 22°6 Δ _{meas} = 22°3
			eSE	W.A.	18 56 45	
			F	W.A.	19.0	
308	Aug. 7	Fl.	ePZ	G.W.	23 48 06	Epicentral Region: 15°0' S., 72°2' W. H = 23 ^h 38 ^m 31 ^s ΔP-H = 56°0 Δ _{meas} = 56°2
			iSE	G.W.	23 55 59	
			iE	G.W.	23 56 10	
			e(ScS)E	G.W.	23 57 51	
			F	G.W.	24.3	
309	Aug. 8	C.G.	ePN	W.A.	03 43 11	Guatemala.
			eSE	W.A.	03 47 19	
			F	W.A.	03.9	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
310	Aug. 8	Fl.	iPR ₁ Z	G.W.	08 53 47	4°9 S., 140°5 E. H = 08 ^h 33 ^m 30 ^s h = 100±km. Δ _{PR₁-H} = 123°0 Δ _{meas} = 123°1
			ipPR ₁ Z	G.W.	08 54 11	
			e(PR ₂)Z	G.W.	08 56 49	
			eSKSE	G.W.	08 59 05	
			esSKSE	G.W.	08 59 50	
			ePSE	G.W.	09 03 40	
			epPSE	G.W.	09 04 04	
			ePPSZ	G.W.	09 05 02	
			e(pPPS)E	G.W.	09 05 42	
			iSR ₁ N	G.W.	09 10 17	
			isSR ₁ N	G.W.	09 10 58	
F	G.W.	10.3				
311	Aug. 9	S.L.	iPZ	M.S.	04 21 19	18°9 N., 67°2 W. H = 04 ^h 15 ^m 28 ^s Δ _{P-H} = 27°6 Δ _{meas} = 28°0 → Another shock?
			iPR ₁ Z	M.S.	04 21 54	
			eSN	S.	04 26 01	
			i(P)Z	M.S.	04 26 32	
F	M.S.	05.0				
		Fl.	eSE	G.W.	04 26 07	Δ _{S-H} = 27°7
			F	G.W.	04.9	Δ _{meas} = 28°1
312	Aug. 9	S.L.	ePZ	M.S.	05 41 05	Central America?
			F	S.	05.9	
313	Aug. 9	S.L.	eSE	S.	07 44 45	
			F	S.	07.8	
314	Aug. 10	S.L.	ePZ	M.S.	01 59 09	51°5 N., 129°8 W. H = 01 ^h 52 ^m 52 ^s Δ _{P-H} = 30°5 Δ _{meas} = 30°5
			ipZ	M.S.	01 59 10	
			eSE	S.	02 04 12	
			iSE	S.	02 04 18	
			iSR ₁ E	S.	02 06 03	
			iLE	S.	02 07 57	
			F	S.	05.5	
		C.G.	eFE	W.A.	01 59 16	Δ _{P-H} = 31°3
			eLN	W.A.	02 09 49	Δ _{meas} = 31°7
			F	W.A.	03.0	
315	Aug. 10	S.L.	eP'E	S.	11 08 34	New Guinea. Δ = about 125°0
			eN	S.	11 11 56	
			c(SKS)E	S.	11 14 35	
			eE	S.	11 15 39	
			eSKKSN	S.	11 16 37	
			eSE	S.	11 18 16	
			eE	S.	11 23 10	
			F	S.	Lost in following	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
316	Aug. 10	S.L.	iPZ	M.S.	11 36 32	16°0 N., 96°2 W. H = 11 ^h 31 ^m 26 ^s h = 50±km. ΔP-H = 23°3 Δmeas = 23°3
			ipPZ	M.S.	11 36 43	
			iSFZ	M.S.	11 36 48	
			i(PR ₁)N	S.	11 37 12	
			iSE	S.	11 40 46	
			isSE	S.	11 41 04	
			iSR ₁ E	S.	11 41 20	
			F	S.	13.4	
		C.G.	W.A.	11 36 16	ΔP-H = 22°1 Δmeas = 22°0	
		eSE	W.A.	11 40 20		
			F	W.A.	11.8	
317	Aug. 10	S.L.	eSE	S.	19 50 08	
			eE	S.	19 55 00	
			F	S.	20.5	
318	Aug. 13	S.L.	e(P)Z	M.S.	08 27 42	Indefinite beginning. Foreshock of following? S phase doubtful.
			e(S)E	S.	08 32 46	
			F	S.	Lost	
319	Aug. 13	S.L.	iPZ	M.S.	08 28 47	---Part of preceding? ---Part of preceding? 49°9 N., 127°7 W. H = 08 ^h 22 ^m 40 ^s ΔP-H = 29°4 Δmeas = 29°2
			eN	S.	08 33 07	
			eSE	S.	08 33 47	
			eE	S.	08 34 10	
			eN	S.	08 35 21	
			eN	S.	08 36 20	
			eLN	S.	08 37 56	
			F	S.	09.4	
		Fl.	G.W.	08 28 43	Vertical not operating. ΔP-H = 29°0 Δmeas = 29°1	
		eSE	G.W.	08 33 43		
			F	G.W.	09.5	
320	Aug. 14	S.L.	iPZ	M.S.	11 15 30	58°4 N., 151°9 W. H = 11 ^h 07 ^m 32 ^s h = 100±km. ΔP-H = 43°9 Δmeas = 43°8
			ipPZ	M.S.	11 15 53	
			iZ	M.S.	11 17 36	
			iSE	S.	11 22 01	
			isSE	S.	11 22 40	
			iSR ₁ N	S.	11 25 27	
			isSR ₁ E	S.	11 26 04	
			F	S.	12.0	
		Fl.	G.W.	11 15 50	Vertical not operating. ΔP-H = 43°6 Δmeas = 43°7	
		epPE	G.W.	11 21 58		
			iSE	G.W.	11 22 36	
			isSE	G.W.	11 25 18	
			iSR ₁ E	G.W.	11 25 50	
			isSR ₁ E	G.W.	11.9	
			F	G.W.		
321	Aug. 14	Fl.	eN	G.W.	14 51 52	U.S.C.G.S. gives: Philippine Islands.
			eE	G.W.	14 58 29	
			eF	G.W.	15 17 --	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
322	Aug. 14	S.L.	ePZ	M.S.	16 56 53	Weak.
323	Aug. 14	S.L.	e(P)Z eZ	M.S. M.S.	17 57 16 17 58 20	Indefinite beginning.
324	Aug. 14	S.L.	ePZ iZ	M.S. M.S.	23 05 57 23 06 12	
325	Aug. 15	S.L.	eZ eSKSE ePSN ePFSE eSR ₁ E F	M.S. S. S. S. S. S.	01 39 11 01 46 50 01 49 13 01 50 33 01 55 29 03.0	Indefinite beginning. $\Delta = \text{about } 100^{\circ}0$
326	Aug. 15	S.L.	ePR ₁ Z iSKSE isSKSE iSN isSN ePSN ipPSN iFPSN eE iSR ₁ E isSR ₁ E F	M.S. S. S. S. S. S. S. S. S. S. S. S. S.	12 06 22 12 12 21 12 13 12 12 13 47 12 15 39 12 15 45 12 16 22 12 16 42 12 18 27 12 21 26 12 22 14 14.1	13 ⁰⁰ N., 142 ⁰³ E. H = 11 ^h 47 ^m 42 ^s h = 150 [±] km. $\Delta_{PR_1-H} = 109^{\circ}0$ $\Delta_{\text{meas}} = 108^{\circ}7$
		Fl.	iSKSE isSKSE iSE ePSE ipPSE e(PFS)E iSR ₁ E esSR ₁ E F	G.W. G.W. G.W. G.W. G.W. G.W. G.W. G.W. G.W.	12 12 18 12 13 10 12 13 40 12 15 45 12 16 20 12 16 44 12 21 22 12 22 14 Lost.	$\Delta_{SKS-H} = 109^{\circ}3$ $\Delta_{\text{meas}} = 108^{\circ}6$
327	Aug. 16	S.L.	eLE F	S. S.	15 27 20 15.6	
		Fl.	eLE F	G.W. G.W.	15 27 15 15.5	

 No Saint Louis Records from August 16, 18^h to August 18, 15^h.

328	Aug. 18	Fl.	iPZ ipPZ i(sP)Z iPR ₁ Z ipPR ₁ Z iSKSE iSE	G.W. G.W. G.W. G.W. G.W. G.W. G.W.	10 46 05 10 46 41 10 46 56 10 49 41 10 50 15 10 56 23 10 56 47	37 ⁰⁹ N., 139 ⁰² E. H = 10 ^h 33 ^m 27 ^s h = 200 [±] km. $\Delta_{P-H} = 90^{\circ}4$ $\Delta_{\text{meas}} = 90^{\circ}8$
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(Con't. on next page)

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
328	August 18 (Con't)	Fl	isSKSE	G.W.	10 57 25	$\Delta P-H = 9290$ $\Delta_{meas} = 9291$
			i(sS)E	G.W.	10 57 41	
			i(PS)E	G.W.	10 58 50	
			iSR ₁ E	G.W.	11 02 49	
			isSR ₁ E	G.W.	11 03 44	
		C.G.	F	G.W.	12.5	
			ePE	V.A.	10 46 13	
			eSKSE	W.A.	10 56 23	
			eSE	W.A.	10 57 02	
			e(sS)E	W.A.	10 58 01	
F	W.A.	11.0				
329	August 18	S.L.	ePZ	M.S.	19 32 49	Epicentral Region: 18°1.5' N., 71°3' W. H = 19 ^h 22 ^m 48 ^s $\Delta P-H = 5997$ $\Delta_{meas} = 5997$ $\Delta P-H = 5998$ $\Delta_{meas} = 5998$
			eSN	S.	19 41 06	
			F	S.	20.7	
		Fl.	ePZ	G.W.	19 32 49	
			iSE	G.W.	19 41 08	
			eE	G.W.	19 42 41	
			F	G.W.	20.7	
330	August 21	S.L.	iPZ	M.S.	02 48 53	
			e(S)N	S.	02 53 51	
			F	S.	03.0	
331	August 21	S.L.	ePZ	M.S.	20 25 09	General Region: 2° N., 33° W. H = 20 ^h 14 ^m 7 ^s
			eSN	S.	20 33 52	
			ePSE	S.	20 34 15	
			e(SR ₁)N	S.	20 41 10	
			F	S.	21.3	
		Fl.	ePZ	G.W.	20 25 14	Time doubtful
eSN	G.W.		20 34 00			
332	August 22	S.L.	ePZ	M.S.	07 25 23	Weak
			F	S.	07.6	
333	August 22	S.L.	e(P)Z	M.S.	17 01 37	Very Weak
334	August 22	S.L.	ePZ	M.S.	19 29 23	
			F	M.S.	20.0	
335	August 23	S.L.	eN	S.	09 17 51	
			e(L)N	S.	09 20.1	
			F	S.	09.4	
336	August 24	S.L.	iPZ	M.S.	00 05 07	Region: 16°5' N., 96° W. H = 00 ^h 00 ^m 10 ^s h = 100± Km $\Delta P-H = 2299$ $\Delta_{meas} = 2299$
			ipPZ	M.S.	00 05 31	
			iZ	M.S.	00 05 57	
			iSN	S.	00 09 08	
			isSE	S.	00 09 38	
			F	S.	00.5	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks		
336 (Con't.)	August 24	Fl.	ePZ	G.W.	00 ^h 05 ^m 09 ^s	$\Delta P-H = 23^{\circ}1$ $\Delta_{meas} = 23^{\circ}0$		
			epPZ	C.W.	00 05 39			
			eSE	G.W.	00 09 09			
			isSE	G.W.	00 09 43			
			F	G.W.	00.3			
337	August 24	S.L.	ePZ	M.S.	02 43 25	Weak		
338	August 24	S.L.	ePZ	M.S.	16 08 13	General Region: 77° N., 5° E. H = 17 ^h 59 ^m 0		
			eSN	S.	16 15 48			
			eSR ₁ N	S.	16 19 31			
			eLN	S.	16 24 16			
			F	S.	17.0			
		Fl.	ePZ	G.W.	16 08 12	Time doubtful		
		eSN	G.W.	16 15 41				
F	G.W.	16.8						
339	August 24	Fl.	iPZ	G.W.	23 42 42	Time doubtful 15°5 N., 23°6 W. H = 23 ^h 37 ^m 51 ^s h = 80±km. $\Delta S-P = 23^{\circ}3$ $\Delta_{meas} = 23^{\circ}1$		
			ipPZ	G.W.	23 43 02			
			iSE	G.W.	23 46 48			
			F	G.W.	25.3			
			C.G.	ePN	W.A.		23 42 38	$\Delta P-H = 21^{\circ}.7$ $\Delta_{meas} = 21^{\circ}.7$
		ipPN	W.A.	23 42 57				
		iSPN	W.A.	23 43 07				
		iSE	W.A.	23 46 34				
		i(sS)E	W.A.	23 46 53				
		340	August 26	S.L.	ePZ	M.S.	02 06 49	Deep?
e(pP)Z	M.S.				02 07 16			
eN	S.				02 16 02			
F	S.				02.5			
341	August 27	S.L.	ePZ	M.S.	18 57 44	N.S., E.W. not operating.		
			eZ	M.S.	18 57 50			
342	August 30	S.L.	eSKSE	S.	01 39 16	Epicentral Region: 17°0 S., 167°9 E. H = 01 ^h 14 ^m 12 ^s $\Delta SKG-H = 109^{\circ}5$ $\Delta_{meas} = 109^{\circ}5$		
			eE	S.	01 39 33			
			ePSE	S.	01 42 38			
			eE	S.	01 43 05			
			ePPSE	S.	01 43 42			
			eSR ₁ E	S.	01 48 36			
			eSR ₂ E	S.	01 53 06			
			F	S.	03.9			
			Fl.	eSKSE	G.W.		01 39 23	Time doubtful.
			epPSE	G.W.	01 42 46			
			eE	G.W.	01 49 02			
		F	G.W.	03.8				

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
343	Aug. 30	S.L.	iPZ	M.S.	04 09 53	U.S.C.G.S. gives: Region: 14°5' S., 78° W. H = 04 ^h 00.8 ^m h = 100 [±] km.
			iZ	M.S.	04 10 47	
			eSE	S.	04 17 48	
			esSE	S.	04 18 55	
			eSR ₁ E	S.	04 19 30	
			esSR ₁ E	S.	04 20 41	
			F	S.	04.4	
		FL.	iSE	G.W.	04 17 49	Time doubtful.
			esSE	G.W.	04 19 01	
			eSR ₁ E	G.W.	04 19 31	
			esSR ₁ E	G.W.	04 20 42	
			F	C.W.	04.4	

Minor Seismic Activity

Station	Date	From			To		
		h	m	s	h	m	s
S.L.	August 1	18	29	18	47		
S.L.	6	17	00	18	18		
FL.	8	02	57	03	18		
S.L.	8	15	26	15	34		
S.L.	11	10	00	10	15		
S.L.	11	17	51	18	18		
S.L.	12	10	13	10	43		
FL.	12	10	12	10	35		
FL.	17	18	27	18	33		
S.L.	21	12	00	12	12		
Fl.	25	03	59	04	15		
S.L.	31	16	06	16	48		

James B. Macelwane, Director

Harry K. Hail, Student Assistant

No.	Date	Sta	Phase	Inst.	h m s	Remarks			
351	Sept. 24	S.L.	iPZ	M.S.	11 06 56	Region: 53° N., 160° E. H = 10 ^h 55 ^m 45 ^s			
			eSN	S.	11 16 12				
			F	S.	11.2				
		Fl.	iPZ	G.W.	11 06 54				
			eSN	G.W.	11 16 10				
			F	G.W.	11.9				
352	Sept. 24	S.L.	iZ	M.S.	20 39 03	May not be seismic			
			iZ	M.S.	20 39 28				
353	Sept. 25	S.L.	ePZ	M.S.	10 47 03	Weak			
354	Sept. 25	S.L.	iFE	W.A.	11 37 37.0	Local shock 37° 56' N., 89° 58' W. H = 11 ^h 37 ^m 22.9 ^s For details see <u>Earthquake Notes</u> , Vol. 16, No. 4, pp. 1-2, June, 1945			
			iSE	W.A.	11 37 48.9				
		Fl.	iPE	W.A.	11 37 40.7				
			iPN	W.A.	11 37 40.9				
		C.G.	iPE	W.A.	11 37 36.4				
			iSE	W.A.	11 37 46.2				
355	Sept. 25	S.L.	iPZ	M.S.	16 26 50	Aftershock of No. 348			
			eSN	S.	16 35 59				
			eN	S.	16 36 09				
			eScSE	S.	16 37 02				
			F	S.	17.5				
			Fl.	ePZ	G.W.		16 26 50		
		eSE		G.W.	16 36 04				
		eScSE		G.W.	16 37 02				
		F		G.W.	17.3				
		356		Sept. 25	S.L.		ePZ	M.S.	17 24 35
							e(SR ₁)E	S.	17 38 38
			F				S.	18.1	
357	Sept. 25	S.L.	ePZ	M.S.	21 24 17	Mexico Tacubaya gives: 16° N., 95° 5' W.			
			eSN	S.	21 28 43				
			F	S.	Lost				
358	Sept. 25	S.L.	iPZ	M.S.	21 34 13	Region of No. 357			
			eSN	S.	21 38 36				
			F	S.	21.9				
359	Sept. 27	S.L.	ePR ₁ N	M.S.	16 43 07	Epicentral Region: 38° 1' N., 73° 6' E. H = 16 ^h 25 ^m 06 ^s ΔPR ₁ -H = 102° 2' Δ _{meas} = 102° 0'			
			iSE	S.	16 50 37				
			iPSN	S.	16 52 12				
			F	S.	18.6				
			Fl.	ePZ	G.W.		16 39 01		
				eSKSE	G.W.		16 49 36		
		eSE		G.W.	16 50 37				
		F		G.W.	19.3				
		ΔP-H = 101° 9'							
		Δ _{meas} = 101° 8'							

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No.	Date	Sta	Phase	Inst.	h m s	Remarks
360	Sept. 29	S.L.	ePZ	M.S.	17 06 28	Weak
361	Sept. 29	S.L.	(e) Z?	M.S.	19 17 39	Epicentral Region: 51°5' N., 170°3' W. H = 19 ^h 08 ^m 14 ^s $\Delta P-H = 55^{\circ}2$ $\Delta_{meas} = 55^{\circ}2$
			ePZ	M.S.	19 17 44	
			eZ	M.S.	19 17 47	
			eSE	S.	19 25 19	
			F	S.	20. 8	
362	Sept. 29	S.L.	iPZ	M.S.	22 10 49	

Minor Seismic Activity

Station	Date	From	To
		h m	h m
S.L.	September 21	07 06	07 44
S.L.	30	01 34	02 00
S.L.	30	01 36	05 45
S.L.	30	08 26	09 16

James B. Macelwane, S. J.
Director

Harry K. Hail
Student Assistant

SAINT LOUIS UNIVERSITY
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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
363	Oct. 1	S.L.	ePZ e(S)E F	M.S. S. S.	08 26 06 08 35 08 09.3	
364	Oct. 2	S.L.	iPN ipPN iSE isSE F	W.A. W.A. W.A. W.A. W.A.	17 27 01 17 27 36 17 31 14 17 32 15 17.8	14 ^o .4 N., 90 ^o .6 W. H = 17 ^h 21 ^m 59 ^s h = 150 [±] Km $\Delta_{P-H} = 24^{\circ}2$ $\Delta_{meas} = 24^{\circ}.1$
		C.G.	ePE. eE eSE e(sS)E F	W.A. W.A. W.A. W.A. W.A.	17 26 53 17 27 56 17 30 47 17 31 30 17.6	$\Delta_{P-H} = 23^{\circ}0$ $\Delta_{meas} = 22^{\circ}9$
365	Oct. 2	S.L.	ePN ipP eSKSE iSE isSE ePSE F	W.A. W.A. W.A. W.A. W.A. W.A. W.A.	20 42 26 20 42 42 20 52 48 20 53 02 20 53 32 20 53 54 21.1	43 ^o 5 N., 141 ^o 7 E. H = 20 ^h 29 ^m 57 ^s $\Delta_{P-H} = 85^{\circ}6$ $\Delta_{meas} = 85^{\circ}7$ h = 80 [±] Km.
		C.G.	eSKSE eSE esSE F	W.A. W.A. W.A. W.A.	20 52 55 20 53 13 20 53 46 20.9	$\Delta_{S-H} = 87^{\circ}6$ $\Delta_{meas} = 86^{\circ}9$
366	Oct. 3	S.L.	(eE)? eE	W.A. W.A.	02 31 42 02 32 53	
367	Oct. 5	S.L.	eFZ	M.S.	15 28 28	Epicentral Region: 4.4 N., 77.8 W. H = 15 ^h 21 ^m 25 ^s $\Delta_{P-H} = 36^{\circ}0$ $\Delta_{meas} = 36^{\circ}0$
368	Oct. 5	S.L.	ePR ₁ Z eSKSE eSKKSE ePSE	M.S. S. S. S.	17 16 15 17 22 22 17 23 26 17 25 58	Region: 4 ^o S., 152 ^o E. H = 16 ^h 57.1 ^m h = about 150 km.

No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
369	Oct. 5	S.L.	(eZ)	M.S.	17 26 30		
			ePZ	M.S.	17 26 55		
			iZ	M.S.	17 27 01		
			iE	S.	17 32 19		Part of Preceding?
			iE	S.	17 37 03		Part of Preceding?
			F	S.	Lost		
370	Oct. 5	S.L.	ipPR ₁ Z	M.S.	17 47 57	Epicentral Region: 21°9 S., 171°2 E. H = 17 ^h 28 ^m 34 ^s h = 150± Km ΔS-H = 110°0 Δ _{meas} = 109°8	
			iSN	S.	17 54 58		
			isSN	S.	17 55 52		
			iSR ₁ N	S.	18 03 24		
			iSR ₂ N	S.	18 06 55		
			F	S.	20+		
371	Oct. 6.	S.L.	ePZ	M.S.	02 47 09	39°9 N., 26°2 E. H = 02 ^h 34 ^m 50 ^s ΔP-H = 82°3 Δ _{meas} = 82°4	
			iPZ	M.S.	02 47 13		
			iZ	M.S.	02 47 17		
			iSN	S.	02 57 28		
			F	S.	05.6		
		Fl.	ePZ	G.W.	02 47 11	ΔP-H = 82°6 Δ _{meas} = 82°5	
			eSN	G.W.	02 57 37		
			F	G.W.	05.4		
372	Oct. 6	S.L.	eZ	M.S.	09 05 51		
			eE	S.	09 12 47		
			F	S.	10.3		
373	Oct. 7	S.L.	e(FR ₁)E	M.S.	19 10 44	New Hebrides Δ = about 109°	
			eE	S.	19 11 16		
			e(FR ₂)E	S.	19 12 35		
			eE	S.	19 13 48		
			eN	S.	19 14 11		
			e(SKS)E	S.	19 16 17		
			e(SKKS)E	S.	19 17 29		
			eSE	S.	19 18 09		
			e(PS)E	S.	19 20 03		
F	S.	21.6					
374	Oct. 7	S.L.	ePZ	M.S.	21 46 48	38°0 N., 25°9 E. H = 21 ^h 34 ^m 24 ^s ΔP-H = 83°2 Δ _{meas} = 83°0	
			iPZ	M.S.	21 46 52		
			eE	S.	21 55 31		
			F	S.	22.5		
375	Oct. 9	S.L.	ePZ	M.S.	02 20 16	Epicentral Region: 9°1 S., 75°8 W. H = 02 ^h 11 ^m 25 ^s ΔP-H = 49°8 Δ _{meas} = 49°8	
			F	S.	Lost		
376	Oct. 9	S.L.	iPZ	M.S.	02 33 12		
			eZ	M.S.	02 33 21		
			F	S.	03.1		

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No.	Date	Sta.	Phase	Inst	h m s	Remarks
377	Oct. 9	S.L.	eLN F	S. S.	21 32.7 22.3	Southwest Pacific
378	Oct. 11	S.L.	iPZ i(pF)Z i i	M.S. M.S. S. S.	09 58 20 09 58 33 10 08 54 10 09 16	Epicentral Region: 14°8 S., 173°7 W. H = 09h45m16s h = 80± Km $\Delta_{P-H} = 92^{\circ}4$ $\Delta_{meas} = 94^{\circ}0$ Saint Louis readings from J.S.A. Preliminary Bulletin #40, 1944
		Fl.	iPZ iSKSE isSKSE F	G.W. G.W. G.W. G.W.	09 58 21 10 08 52 10 09 18 11.5	$\Delta_{P-H} = 92^{\circ}7$ $\Delta_{meas} = 93^{\circ}9$
379	Oct. 13	S.L.	eE eSN ePSE e(SR ₂)E F	S. S. S. S. S.	11 45 43 11 46 44 11 48 24 11 58 02 13.5	Epicentral Region: 33°9 S., 178°4 W. H = 11 ^h 20 ^m 10 ^s $\Delta_{PS-H} = 109^{\circ}0$ $\Delta_{meas} = 108^{\circ}9$
		Fl.	e(PR ₁)Z eSKKSE eSN F	G.W. G.W. G.W. G.W.	11 39 10 11 46 09 11 46 45 13.2	$\Delta_{SKKS-H} = 108^{\circ}7$ $\Delta_{meas} = 108^{\circ}9$
380	Oct. 14	S.L.	eP'Z ePR ₁ E i(PS)E F	M.S. S. S. S.	02 37 00 02 38 04 02 48 02 05.0	Region: 7° S., 151° E. H = 02 ^h 18.4 ^m h = about 50 Km
		Fl.	ePR ₂ Z eSKSE e(PS)E F	G.W. G.W. G.W. G.W.	02 38 09 02 43 51 02 48 12 04.9	
381	Oct. 14	S.L.	eSKSE ePSE eSR ₁ E eSR ₂ E F	S. S. S. S. S.	09 32 23 09 34 56 09 40 29 09 44 44 10.7	Approximately: 11° S, 173°E. H = 09 ^h 07.8 ^m
382	Oct. 14	S.L.	iPZ eZ eSE eE F	M.S. M.S. S. S. S.	15 27 24 15 29 08 15 37 17 15 39 04 15.7	Northern Japan Deep No surface waves
		Fl.	eSE eE F	G.W. G.W. G.W.	15 37 16 15 39 19 15.7	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
383	Oct. 14	S.L.	eSKSE	S.	16 45 27	Southwest Pacific $\Delta = \text{about } 110^\circ$	
			eSKKSN	S.	16 46 32		
			eN	S.	16 47 57		
			eE	S.	16 53 15		
			F	S.	17.7+		
		Fl.	eSKSE	G.W.	16 45 25		
	eSKKSE	G.W.	16 46 32				
	F	G.W.	18.0				
384	Oct. 14	Fl.	e(SKS)E	G.W.	19 43 18	Southwest Pacific	
			e(SKKS)E	G.W.	19 44 36		
			F	G.W.	19.8		
385	Oct. 14	S.L.	eP ₁ Z	M.S.	20 35 19	Southeast of Mindanao $\Delta = \text{about } 128^\circ$	
			ePR ₁ Z	M.S.	20 37 15		
			e(SKP)N	S.	20 38 41		
			ePSN	S.	20 47 31		
			ePPSN	S.	20 48 56		
			e(SR ₁)N	S.	20 54 59		
		F	S.	22.6			
		Fl.	ePR ₁ Z	G.W.	20 37 12		
		e(SKP)E	G.W.	20 38 42			
		e(SKKS)E	G.W.	20 44 23			
		eE	G.W.	20 46 10			
F	G.W.	22+					
386	Oct. 15	S.L.	eFZ	M.S.	04 12 58	Epicentral Region: 10°7 S., 78°4 W. H = 04 ^h 04 ^m 05 ^s $\Delta_{P-H} = 50.0$ $\Delta_{\text{meas}} = 50.4$	
			eZ	M.S.	04 13 09		
			eSE	S.	04 20 07		
			ePSE	S.	04 20 41		
			eE	S.	04 22 41		
			e(SR ₁)E	S.	04 23 40		
		F	S.	04.9			
		Fl.	eE	G.W.	04 19 36		$\Delta_{\text{meas}} = 50.6$
		e(S)E	G.W.	04 20 05			
		F	G.W.	04.5			
387	Oct. 15	S.L.	e(PS)E	S.	08 28 40	Southwest Pacific?	
			eLE	S.	08 49 07		
			F	S.	09.5		
388	Oct. 15	S.L.	eLE	S.	20 08 13		
			F	S.	20.2		
389	Oct. 17	Fl.	ePR ₁ Z	G.W.	18 56 06	Epicentral Region: 30°7 N., 83°2 E. H = 18 ^h 36 ^m 57 ^s $\Delta_{PS-H} = 110.9$ $\Delta_{\text{meas}} = 110.8$	
			eSKSN	G.W.	19 02 08		
			eSKKSN	G.W.	19 03 08		
			iSPZ	G.W.	19 05 21		
			iPSN	G.W.	19 05 31		
			F	G.W.	21.3		
390	Oct. 19	S.L.	eLN	S.	04 58 31		
			F	S.	05.1		

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
391	Oct. 19	S.L.	eLE F	S. S.	16 21 22 16.6	
392	Oct. 20	S.L.	iPZ	M.S.	23 14 42	
		Fl.	eFE F	W.A. W.A.	23 14 40 23 16.6	
393	Oct. 21	S.L.	iPZ	M.S.	10 52 22	
394	Oct. 21	S.L.	ePZ eSN eE eME F	M.S. S. S. S. S.	20 24 05 20 28 26 20 28 52 20 36 02 21.0	Off the coast of Guatemala.
395	Oct. 23	S.L.	ePZ iPZ ePR ₁ Z iZ iSE iSR ₁ E F	M.S. M.S. M.S. M.S. S. S. S.	23 47 30 23 47 31 23 49 07 23 49 19 23 53 45 23 56 08 03.6	0°7 N., 79°6 W. H = 23 ^h 40 ^m 07 ^s $\Delta P-H = 38.6$ $\Delta_{meas} = 39.0$
		Fl.	ePZ iPZ iPR ₁ Z i(ScP)E iSE F	G.W. G.W. G.W. G.W. G.W. G.W.	23 47 33 23 47 36 23 47 10 23 53 17 23 53 31 04.4	$\Delta P-H = 38.8$ $\Delta_{meas} = 39.2$
396	Oct. 26	S.L.	ePZ	M.S.	01 53 20	
397	Oct. 29	S.L.	iSKSN eSKSN eSE cN iPSN eE ePPSN e(PKRP)Z cN ePPSN F	S. S. S. S. S. S. S. S. S. S. S.	00 36 44 00 37 42 00 38 13 00 39 50 00 40 07 00 40 29 00 41 07 00 41 14 00 41 28 00 41 55 02.7	Same Region as No. 389, October 17. H = 00 ^h 11 ^m 15 ^s
		Fl.	c(PR ₁)Z eN eSKSE eSKSE e(S)E ePSN F	G.W. G.W. G.W. G.W. G.W. G.W. G.W.	00 30 39 00 36 21 00 36 44 00 37 38 00 38 15 00 40 05 02 5	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
398	Oct. 30	S.L.	ePZ	M.S.	05 42 00	1096 N., 4398 W. H = 05 ^h 13 ^m 12 ^s h = 50 [±] km $\Delta P-H = 49^{\circ}9$ $\Delta_{meas} = 50^{\circ}0$ $\Delta S-H = 50^{\circ}4$ $\Delta_{meas} = 50^{\circ}2$
			ipFZ	M.S.	05 42 12	
			eSE	S.	05 49 16	
			eSR ₁ E	S.	05 52 56	
			F	S.	06.4	
		Fl.	eSE	G.W.	05 49 19	
			eLE	G.W.	05 56.5	
			F	G.W.	06.2	

Minor Seismic Activity

Station	Date	From		To	
		h	m	h	m
S.L.	October 14	06	36	06	57
S.L.	14	07	44	08	13
S.L.	14	22		24.5	
Fl.	15	09	00	10	53
S.L.	15	09	45	11	35
S.L.	17	04	39	05	44
S.L.	21	22.0		22.5	

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No.	Date	Sta.	Phase	Inst.	h m s			Remarks
399	Nov. 1	S.L.	iP'Z	M.S.	12	20	51	Region: 4° S., 102° E. H = 12h01m30s h = 100 ⁺ km.
			iZ	M.S.	12	21	03	
			iZ	M.S.	12	21	12	
			ipP'Z	M.S.	12	21	18	
			iZ	M.S.	12	21	27	
			eSR ₁ E	S.	12	42	47	
			ePPSSE	S.	12	44	01	
			eIE	S.	13	05.5		
F	S.	14.1						
400	Nov. 3	S.L.	eN	S.	06	39	49	
			eLN	S.	07	03	48	
			F	S.	07.9			
401	Nov. 5	S.L.	e(P)Z	M.S.	06	12	06	Weak.
402	Nov. 6	S.L.	(eZ)	M.S.	06	09	02	Japan?
			eSN	S.	06	13	48	
			eSR ₁ E	S.	06	15	50	
			eLN	S.	06	26	58	
			F	S.	07.5			
Fl.	eSR ₁ E	G.W.	06	15	49			
F	F	G.W.	07.4					
403	Nov. 6	S.L.	eZ	M.S.	17	35	03	Obscured by microseisms.
			(eE)	S.	17	43	16	
404	Nov. 7	S.L.	iPZ	M.S.	05	42	03	Deep? No surface waves. General Region: 14° N., 89° W. H = 05h36.7m
			iZ	M.S.	05	42	05	
			iZ	M.S.	05	42	11	
			e(S)Z	M.S.	05	46	29	
			F	M.S.	05	47.0		
		C.G.	ePN	W.A.	05	41	54	
405	Nov. 8	S.L.	ePZ	M.S.	04	14	26	
406	Nov. 8	S.L.	e(P)Z	M.S.	06	35	13	
			eIE	S.	06	51	12	
			F	S.	07.1			

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks			
407	Nov. 10	S.L.	epPZ	M.S.	13 25 20	Epicentral Region: 54°2 N., 156°7 W. h = 50 [±] km. H = 13 ^h 16 ^m 46 ^s Δ _{pP-H} = 46°5 Δ _{meas} = 46°7			
			iSE	S.	13 31 56				
			i(PS)E	S.	13 32 08				
			iSN	S.	13 32 32				
			i(pFS)E	S.	13 32 41				
			eSR ₁ N	S.	13 35 30				
F	S.	Lost							
408	Nov. 13	S.L.	ePnE	W.A.	11 50(20)	Very weak initial phase. Epicentral Region: 39°7 N., 84°2 W. H = 11 ^h 49 ^m 09 ^s Δ _{S*-H} = 4°6 Δ _{meas} = 4°7			
			iS*N	W.A.	11 51 27				
			F	W.A.	11 56.7				
		Fl.	ePnE	W.A.	11 50 19		Δ _{Pn-H} = 4°6		
			eSnN	W.A.	11 51 12		Δ _{Sn-H} = 4°9		
			iS*E	W.A.	11 51 30		Δ _{meas} = 4°8		
			F	W.A.	11 57.1				
		C.G.	eS*N	W.A.	11 51 32		Δ _{S*-H} = 4°8		
			eN	W.A.	11 51 35		Δ _{meas} = 4°9		
			F	W.A.	11 53.2		Felt at Anna and Botkins, Ohio.		
		409	Nov. 13	S.L.	eE		S.	19 47 14	Epicentral Region: 24°9 S., 177°9 E. H = 19 ^h 23 ^m 30 ^s h = 600 [±] km. Δ _{S-H} = 106°1 Δ _{meas} = 106°5
					eSN		S.	19 47 53	
410	Nov. 14	S.L.	iSN	S.	00 01 39				
			F	S.	00.6				
411	Nov. 14	S.L.	(ePZ)	M.S.	00 42 04				
			eSE	S.	00 51 25				
412	Nov. 14	S.L.	eSR ₁ E	S.	00 56 04				
			F	S.	02.1				
411	Nov. 14	Fl.	eN	G.W.	00 47 49				
			eSE	G.W.	00 51 26				
			F	G.W.	02.2				
412	Nov. 14	S.L.	ePZ	M.S.	23 26 50				

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
413	Nov. 14	S.L.	eSKSN	S.	23 42 05	Region: 41° N., 66° E. H = 23 ^h 18.6 ^m h = about 100 km.
			esSKSN	S.	23 42 44	
			eSKKSE	S.	23 43 15	
			e(sSKKS)E	S.	23 43 38	
			iPSN	S.	23 44 45	
			eN	S.	23 46 45	
F	S.	24.4				
414	Nov. 15	S.L.	ePZ	M.S.	16 06 58	South of Easter Island?
			e(S)E	S.	16 16 22	
			F	S.	16.6	
415	Nov. 15	S.L.	eP'Z	M.S.	21 06 01	Epicentral Region: 4° N., 128° E. H = 20 ^h 47 ^m 04 ^s $\Delta_{PR_1-H} = 125^{\circ}.2$ $\Delta_{meas} = 125^{\circ}.0$
			iPR ₁ Z	M.S.	21 07 51	
			eSKSE	S.	21 12 56	
			ePSE	S.	21 18 06	
			ePPSE	S.	21 19 26	
			F	S.	24.3	
		Fl.	eP'Z	G.W.	21 05 59	$\Delta_{PR_1-H} = 125^{\circ}.0$ $\Delta_{meas} = 124^{\circ}.8$
			iPR ₁ Z	G.W.	21 07 50	
			eSKSE	G.W.	21 12 55	
			e(PS)E	G.W.	21 18 14	
			F	G.W.	24.2	
416	Nov. 15	S.L.	iPZ	M.S.	22 34 14	Deep?
			i(pP)Z	M.S.	22 34 48	
			F	S.	Lost	
417	Nov. 16	S.L.	ePR ₁ E	S.	12 29 50	12° S., 166° E. H = 12 ^h 10 ^m 59 ^s $\Delta_{PS-H} = 108^{\circ}.3$ $\Delta_{meas} = 108^{\circ}.0$
			iSKSE	S.	12 36 03	
			eSE	S.	12 37 44	
			iE	S.	12 38 52	
			iPSE	S.	12 39 06	
			F	S.	15.4	
		Fl.	iSKSE	G.W.	12 36 02	$\Delta_{PS-H} = 108^{\circ}.5$ $\Delta_{meas} = 107^{\circ}.9$
			iPSE	G.W.	12 39 08	
			F	G.W.	15.3	
418	Nov. 18	S.L.	ePZ	M.S.	08 04 33	29° S., 112° W. H = 07 ^h 53 ^m 20 ^s $\Delta_{P-H} = 70^{\circ}.8$ $\Delta_{meas} = 70^{\circ}.6$
			iSE	S.	08 13 46	
			F	S.	09.1	
419	Nov. 19	S.L.	eLE	S.	04 33 48	
			F	S.	05.0	
420	Nov. 19	S.L.	eLE	S.	07 39.4	
			F	S.	08.2	
421	Nov. 19	S.L.	ePZ	M.S.	19 23 12	
			eZ	M.S.	19 23 19	
			eZ	M.S.	19 23 37	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
422	Nov. 20	S.L.	ePZ	M.S.	03 34 36	
423	Nov. 20	S.L.	e(SKKS)E eLE F	S. S. S.	05 07 27 05 35.0 06.3	Possibly the same region as # 417, Nov. 16, with $H = 04^h 41.3^m$
424	Nov. 20	S.L.	iPZ iPPZ iSE F	M.S. M.S. S. S.	21 41 41 21 42 09 21 51 00 21 52.0	$50^{\circ}9$ N., $155^{\circ}0$ E. $H = 21^h 30^m 23^s$ $h = 150 \pm \text{km.}$ $\Delta P-H = 74^{\circ}2$ $\Delta_{\text{meas}} = 74^{\circ}1$
425	Nov. 21	S.L.	ePZ iSKSN iPSM eSR ₁ E F	M.S. S. S. S. S.	10 16 03 10 26 38 10 28 53 10 34 04 11.5	Region: 56° S., 70° W. $H = 10^h 02.5^m$ Possibly deeper than normal.
		Fl.	eSKSN F	G.W. G.W.	10 26 43 11.5	
426	Nov. 21	S.L.	eZ F	M.S. M.S.	15 12 54 15 14.0	Very weak.
427	Nov. 23	S.L.	e(P)Z F	M.S. M.S.	05 55 16 05 56.7	Weak.
428	Nov. 23	S.L.	e(P)Z F	M.S. M.S.	11 02 40 11 03.7	Very Weak.
429	Nov. 24	S.L.	ePZ eE iPR ₁ Z iE iSKSE isSKSE iSKKSE iSE iPSE iPPSE iE iSR ₁ E isSR ₁ E iSR ₂ E F	M.S. S. M.S. S. S. S. S. S. S. S. S. S. S. S. S. S. S. S. S.	05 03 18 05 06 38 05 07 48 05 08 47 05 13 40 05 14 37 05 14 57 05 15 54 05 17 16 05 18 14 05 19 39 05 23 15 05 24 21 05 27 26 00.0	$19^{\circ}0$ S., $169^{\circ}1$ E. $H = 04^h 49^m 00^s$ $h = 100 \pm \text{km.}$ $\Delta_{PR_1-H} = 109^{\circ}7$ $\Delta_{\text{meas}} = 109^{\circ}9$
		Fl.	ePZ iPR ₁ Z iZ iSKSE isSKSE iSKKSE iSE iPSE	G.W. G.W. G.W. G.W. G.W. G.W. G.W. G.W.	05 03 15 05 07 49 05 08 49 05 13 36 05 14 36 05 15 00 05 15 52 05 17 09	$\Delta_{PR_1-H} = 109^{\circ}8$ $\Delta_{\text{meas}} = 109^{\circ}8$

(Continued on next page)

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
429 (Continued)	Nov. 24	Fl.	iPPSE	G.W.	05 18 08	
			iE	G.W.	05 22 35	
			iSR ₁ E	G.W.	05 23 17	
			isSR ₁ E	G.W.	05 24 21	
			iE	G.W.	05 25 03	
			iE	G.W.	05 26 05	
			iSR ₂ E	G.W.	05 27 24	
		F	G.W.	07.6		
430	Nov. 24	S.L.	eLE	S.	19 13 13	
			F	S.	19.4	
431	Nov. 26	S.L.	e(P)Z	M.S.	00 51 09	
			eLE	S.	01 22 --	
			F	S.	01.9	
432	Nov. 26	S.L.	eSR ₁ E	S.	08 47 04	Region: 19° S., 173° W. H = 08 ^h 15.5 ^m
			eME	S.	09 00.5	
			F	S.	10.3	
433	Nov. 27	S.L.	ePZ	M.S.	16 38 06	16°0 N., 97°7 W. H = 16 ^h 32 ^m 54 ^s ΔP-H = 23°7 Δmeas = 23°7
			iZ	M.S.	16 38 16	
			e(S)N	S.	16 42 31	
			eLN	S.	16 47.4	
			F	S.	17.2	
		Fl.	G.W.	16 38 07	ΔP-H = 23°8 Δmeas = 23°7	
434	Nov. 28	S.L.	e(P)Z	M.S.	16 15 12	
			iLN	S.	16 21 52	
			F	S.	16.6	
435	Nov. 28	S.L.	ePZ	M.S.	19 06 56	Kurile Islands.
			eSE	S.	19 17 44	
			F	S.	20.1	
436	Nov. 29	S.L.	e(P)Z	M.S.	00 49 01	Indefinite. Peru?
			e(S)E	S.	00 56 44	
			F	S.	01.3	
437	Nov. 29	S.L.	e(PR ₁)E	S.	19 09 58	Aftershock of # 429, November 24, at 04 ^h . H = 18 ^h 51 ^m 23 ^s h = 150±km.
			eE	S.	19 11 07	
			eSKSE	S.	19 16 02	
			e(sSKS)E	S.	19 17 17	
			eSN	S.	19 17 49	
			iE	S.	19 18 15	
			i(sS)N	S.	19 18 59	
			eE	S.	19 19 48	
			i(PPS)NE	S.	19 20 35	
			iE	S.	19 26 45	
			e(SR ₂)N	S.	19 30 45	
			F	S.	21.4	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
429 (Continued)	Nov. 24	Fl.	iPPSE	G.W.	05 18 08	
			iE	G.W.	05 22 35	
			iSR ₁ E	G.W.	05 23 17	
			isSR ₁ E	G.W.	05 24 21	
			iE	G.W.	05 25 03	
			iE	G.W.	05 26 05	
			iSR ₂ E	G.W.	05 27 24	
			F	G.W.	07.6	
430	Nov. 24	S.L.	eLE	S.	19 13 13	
			F	S.	19.4	
431	Nov. 26	S.L.	e(P)Z	M.S.	00 51 09	
			eLE	S.	01 22 --	
			F	S.	01.9	
432	Nov. 26	S.L.	eSR ₁ E	S.	08 47 04	Region: 19° S., 173° W. H = 08 ^h 15.5 ^m
			eME	S.	09 00.5	
			F	S.	10.3	
433	Nov. 27	S.L.	ePZ	M.S.	16 38 06	16°0 N., 97°7 W. H = 16 ^h 32 ^m 54 ^s $\Delta P-H = 23^{\circ}7$ $\Delta_{meas} = 23^{\circ}7$
			iZ	M.S.	16 38 16	
			e(S)N	S.	16 42 31	
			eLN	S.	16 47.4	
			F	S.	17.2	
		Fl.	G.W.	16 38 07	$\Delta P-H = 23^{\circ}8$ $\Delta_{meas} = 23^{\circ}7$	
434	Nov. 28	S.L.	e(P)Z	M.S.	16 15 12	
			iLN	S.	16 21 52	
			F	S.	16.6	
435	Nov. 28	S.L.	ePZ	M.S.	19 06 56	Kurile Islands.
			eSE	S.	19 17 44	
			F	S.	20.1	
436	Nov. 29	S.L.	e(P)Z	M.S.	00 49 01	Indefinite. Peru?
			e(S)E	S.	00 56 44	
			F	S.	01.3	
437	Nov. 29	S.L.	e(PR ₁)E	S.	19 09 58	Aftershock of # 429, November 24, at 04 ^h . H = 18 ^h 51 ^m 23 ^s h = 150±km.
			eE	S.	19 11 07	
			eSKSE	S.	19 16 02	
			e(sSKS)E	S.	19 17 17	
			eSN	S.	19 17 49	
			iE	S.	19 18 15	
			i(sS)N	S.	19 18 59	
			eE	S.	19 19 48	
			i(PPS)NE	S.	19 20 35	
			iE	S.	19 26 45	
			e(SR ₂)N	S.	19 30 45	
			F	S.	21.4	

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
437 (Con't.)	Nov. 29	Fl.	e(SKKS)E	G.W.	19 17 23		
			iE	G.W.	19 18 13		
			eE	G.W.	19 19 47		
			i(PPS)E	G.W.	19 20 33		
			eE	G.W.	19 26 43		
			iE	G.W.	19 31 17		
			F	G.W.	21.1		
438	Nov. 30	S.L.	eSKSN	S.	02 09 54	Epicentral Region: 24°9 S., 178°8 W. H = 01 ^h 45 ^m 50 ^s h = 200±km. Δ _{S-H} = 104.1 Δ _{meas} = 104.1	
			eE	S.	02 10 36		
			iSN	S.	02 11 08		
			e(PS)N	S.	02 12 30		
			e(pPS)E	S.	02 14 08		
			eE	S.	02 17 11		
			F	S.	03.3		
		Fl.	eSKSE	G.W.	02 09 50		Δ _{S-H} = 104.2
			eE	G.W.	02 10 34		Δ _{meas} = 104.0
			eSE	G.W.	02 11 12		
			F	G.W.	03.2		

Minor Seismic Activity

Station	Date	From h m	To h m
S.L.	November 7	16 36	17 16
S.L.	17	22 --	24 --
S.L.	19	06 22	06 42

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No.	Date	Sta.	Phase	Inst.	h m s	Remarks
439	Dec. 1	S.L.	iSKSE	S.	04 23 02	Epicentral Region: 21°2 S., 179°1 W. H = 04 ^h 00 ^m 27 ^s $\Delta_{S-H} = 102^{\circ}2$ $\Delta_{meas} = 102^{\circ}2$ h = 600 Km. $\Delta_{S-H} = 102^{\circ}2$ $\Delta_{meas} = 102^{\circ}1$
			iE+	S.	04 23 45	
			iSN	S.	04 24 18	
			esSN	S.	04 28 06	
			eSR ₁ N	S.	04 31 27	
		F	S.	05.3		
		Fl.	eSKSE	G.W.	04 23 00	
			eE	G.W.	04 23 45	
			eSN	G.W.	04 24 18	
			eSR ₁ N	G.W.	04 31 26	
F	G.W.		05.1			
440	Dec. 2	S.L.	ePZ	M.S.	03 02 44	Region: 2°5 N., 84°5 W. H = 02 ^h 55 ^m 37 ^s $\Delta_{P-H} = 36^{\circ}5$ $\Delta_{meas} = 36^{\circ}5$
			eZ	M.S.	03 02 50	
			eSN	S.	03 08 42	
			F	S.	03.4	
441	Dec. 4	S.L.	e(P)Z	M.S.	03 09 58	
442	Dec. 4	S.L.	e(P)Z	M.S.	11 34 00	
443	Dec. 4	S.L.	eZ	M.S.	20 52 22	Region: 16° N, 145° E. H = 20 34 36 h = 50 [±] km $\Delta_{PR_1-H} = 105^{\circ}6$ $\Delta_{meas} = 105^{\circ}3$
			ePR ₁ Z	M.S.	20 53 00	
			epPR ₁ Z	M.S.	20 53 13	
			iSKSE	S.	20 59 14	
			eE	S.	20 59 25	
			eS _E	S.	21 00 42	
			eSN	S.	21 00 48	
			e(PS)E	S.	21 02 10	
			eN	S.	21 07 51	
			iSR ₁ E	S.	21 08 05	
		eN	S.	21 08 10		
		F	S.	22.4		
		Fl.	e(pPR ₁)Z	G.W.	20 53 18	$\Delta_{SKS-H} = 105^{\circ}9$ $\Delta_{meas} = 105^{\circ}1$
iSKSE	G.W.		20 59 15			
eSR ₁ E	G.W.		21 08 04			
F	G.W.	22.2				
444	Dec. 5.	S.L.	iPZ	M.S.	01 02 23	Epicentral Region: 32°9 S., 66°8 W. H = 00 ^h 51 ^m 00 ^s h = 150 [±] Km $\Delta_{P-H} = 75^{\circ}0$ $\Delta_{meas} = 75^{\circ}0$
			epPZ	M.S.	01 02 55	
			esPZ	M.S.	01 03 05	
			eSN	S.	01 11 37	
			eN	S.	01 12 14	
			F	S.	01.3	
				S.		

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
445	Dec. 5	S.L.	ePZ	M.S.	09 33 58	
446	Dec. 5	S.L.	ePZ iPZ iZ eSN eLN iLN F	M.S. M.S. M.S. S. S. S. S.	14 46 11 14 46 14 14 46 19 14 50 07 14 52 26 14 52 51 Lost	Region 25° N., 110°W. H = 14 ^h 41 ^m 22 ^s
447	Dec. 5	S.L.	ePZ iZ eSN eLN iLN F	M.S. M.S. S. S. S. S.	17 14 10 17 14 19 17 18 05 17 20 28 17 20 56 17.8	Region 25°N., 110°W. H = 17 ^h 09 ^m 20 ^s
448	Dec. 5	S.L.	e(P)Z eLN F	M.S. S. S.	17 57 45 18 04.7 18.2	Indefinite Region of No. 447?
449	Dec. 7	S.L.	ePZ iZ iPR ₁ Z iSKSN iSE F	M.S. M.S. M.S. S. S. S.	04 49 09 04 49 38 04 53 17 04 59 36 05 00 20 10.3	Weak initial phase. Region of 33°N., 137°E. H = 04 35 46 Destructive along Pacific coast of Lower Honshu, Japan
		Fl.	ePZ iZ iPR ₁ E iSE F	G.W. G.W. G.W. G.W. G.W.	04 49 09 04 49 25 04 53 19 05 00 21 10.0	
		C.G.	e(P)E eSN F	W.A. W.A. W.A.	04 49 48 05 00 53 06.9	
450	Dec. 7	S.L.	ePZ ePR ₁ Z	M.S. M.S.	06 39 00 06 43 06	Aftershock of No. 449
451	Dec. 7	S.L.	e(P)Z eE F	M.S. S. S.	22 55 12 23 12.8 23.3	
452	Dec. 8	S.L.	eN eSN e(L)N F	S. S. S. S.	01 35 38 01 35 56 01 51 -- 02.7	Epicentral Region: 20°0 S., 175°05 W. H = 01 ^h 10 ^m 40 ^s ΔS-H = 9899 Δmeas = 9897
453	Dec. 8	S.L.	e(S)E eE eE eE F	S. S. S. S. S.	07 43 28 07 45 45 07 47 19 07 49 58 09.3	Epicentral Region: 21°7 S., 169°9 E. H = 07 ^h 17 ^m 14 ^s h = 100± Km Δmeas = 110°9

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
454	Dec. 8	S.L.	ePSE	S.	13 27 41	Region of No. 453 h = 100± Km
			eE	S.	13 28 07	
			eSR ₁ E	S.	13 34.3	
			F	S.	Lost	
455	Dec. 8	S.L.	iPZ	M.S.	16 31 20	Epicentral Region: 33°9 N., 141.2 E. H = 18 ^h 21 ^m 06 ^s Δ _{P-H} = 93°3 Δ _{meas} = 93°3
			eSE	S.	18 45 33	
			eSR ₁ E	S.	18 51 48	
			eIE	S.	19 02.5	
			F	S.	20.1	
456	Dec. 10	S.L.	iPKP ₁ Z	M.S.	05 31 23	Approximately: 24° S., 65° E. H = 05 ^h 11.5 ^m Possibly deeper than normal.
			iZ	M.S.	05 31 31	
			iPKP ₂ Z	M.S.	05 31 44	
			iZ	M.S.	05 31 47	
			iPR ₁ Z	M.S.	05 35 21	
			iZ	M.S.	05 35 30	
			eSKKSN	S.	05 42 04	
			eN	S.	05 45 19	
			iPSKSN	S.	05 45 51	
			eE	S.	05 46 34	
			iE	S.	05 48 39	
			iE	S.	05 50 35	
			iSR ₁ E	S.	05 54 31	
		eE	S.	05 59 46		
		F	S.	07.8		
		Fl.	iPKP ₁ Z	G.W.	05 31 24	
			iPKP ₂ Z	G.W.	05 31 50	
			iPR ₁ Z	G.W.	05 35 26	
			eE	G.W.	05 39 39	
			iSKKSE	G.W.	05 42 11	
			eE	G.W.	05 45 13	
			iE	G.W.	05 48 46	
			eE	G.W.	05 50 05	
iE	G.W.		05 50 36			
eSR ₁ E	G.W.		05 54 32			
F	G.W.	07.5				
457	Dec. 10	S.L.	e(PR ₁)Z	M.S.	09 45 37	No surface waves Pasadena gives Region of Japan. Depth about 600 Km?
458	Dec. 10	S.L.	ePR ₁ Z	M.S.	16 44 01	18°3 S., 167°8 E. H = 16 ^h 25 ^m 00 ^s Δ _{PR₁-H} = 110°3 Δ _{meas} = 110°4
			eSKSE	S.	16 49 57	
			iSKKSE	S.	16 51 03	
			iE	S.	16 51 23	
			iPSE	S.	16 53 26	
			iSR ₁ E	S.	16 59 01	
			F	S.	20 --	
		Fl.	ePR ₁ Z	G.W.	16 44 04	Δ _{PR₁-H} = 110°7 Δ _{meas} = 110°5
			iZ	G.W.	16 44 18	
			iSKSE	G.W.	16 50 09	
			iSKKSE	G.W.	16 51 04	
			iPSE	G.W.	16 53 12	
			iE	G.W.	16 53 12	

No.	Date	Sta.	Phase	Inst.	h m s	Remarks	
459	Dec. 10	S.L.	iPZ e(L)E F	M.S. S. S.	19 42 52 20 26 -- 21.3		
		Fl.	ePZ	G.W.	19 42 52		
460	Dec. 12	S.L.	e(P)E	S.	01 26 22		
461	Dec. 12	S.L.	iPE	S.	04 27 20	52°0 N., 176°7 W. H = 04 ^h 17 ^m 24 ^s Possibly slightly deeper than normal. $\Delta P-H = 59^{\circ}0$ $\Delta_{meas} = 58^{\circ}9$	
			iE	S.	04 27 30		
			iE	S.	04 27 51		
			iE	S.	04 28 56		
			eN	S.	04 30 20		
			iSE	S.	04 35 32		
			iE	S.	04 35 47		
			eN	S.	04 37 02		
			iN	S.	04 37 08		
			iN	S.	04 37 25		
			iSR ₁ N	S.	04 39.4		
			F	S.	07.6		
			Fl.	iPZ	G.W.		04 27 18
		iZ		G.W.	04 27 27		
iSE F	G.W. G.W.	04 35 28 07.6					
462	Dec. 12	S.L.	eSKSE	S.	10 49 10	Japan about 92°	
			c(S)E	S.	10 49 52		
			ePPSN	S.	10 51 28		
			iE	S.	10 52 52		
			eSR ₁ N	S.	10 56 20		
			e(L)E	S.	11 07.9		
			F	S.	12.3		
		Fl.	ePZ	G.W.	10 38 40		
			c(S)E	G.W.	10 49 58		
			ePPSN	G.W.	10 51 38		
			eE F	G.W. G.W.	10 53 37 12.2		
463	Dec. 15	S.L.	ePZ	M.S.	04 59 11	Tacubaya gives: 18° 39' N., 104° 33' W.	
464	Dec. 15	S.L.	e(P)Z	M.S.	05 21 26	Region of #463	
465	Dec. 15	S.L.	(eP)Z	M.S.	08 18 45		
466	Dec. 15	S.L.	ePZ	M.S.	14 01 17		
			iZ	M.S.	14 01 22		

No.	Date	Sta.	Phase	Inst.	h m s	Remarks
467	Dec. 17	S.L.	iPZ	M.S.	07 41 42	Region: 14° N., 99° W. H = 07h36.3m
			eE	S.	07 43 41	
			eSN	S.	07 46 08	
			eLN	S.	07 51.5	
			eME	S.	07 52 24	
			F	S.	08.6	
468	Dec. 19	S.L.	cN	S.	14 43 57	Japan? S phases lost changing records
			eLE	S.	14 47 47	
			iME	S.	14 55 05	
			F	S.	16.3	
		Fl.	eZ	G.W.	14 31 42	
			eE	G.W.	14 41 59	
			iME	G.W.	14 55 05	
			F	G.W.	16.0	
469	Dec. 20	S.L.	eLE	S.	15 10.8	
			F	S.	15.7	
		Fl.	eLE	G.W.	15 11.6	
			F	G.W.	15.8	
470	Dec. 20	S.L.	eSN	S.	21 11 09	28°3 S., 178°0 W. H = 20h45m05s $\Delta_{PS-H} = 106^{\circ}2$ $\Delta_{meas} = 105^{\circ}7$ Reported felt in Kermadec Islands
			ePSE	S.	21 12 50	
			eSR E	S.	21 18 33	
			eE	S.	21 21.5	
			eLE	S.	21 35.4	
			F	S.	22.3	
		Fl.	eE	G.W.	21 22.1	
			eLE	G.W.	21 35.3	
			F	G.W.	22.4	
471	Dec. 21	S.L.	e(P)Z	M.S.	05 24 57	Pasadena gives: Northern California
			e(S)E	S.	05 29 35	
			eLN	S.	05 34 07	
			iMN	S.	05 35 33	
			F	S.	05.7	
			Fl.	eLE	G.W.	
		F		G.W.	05.7	
		472	Dec. 21	S.L.	eSKSE	
esSKSE	S.				20 39 20	
ePSE	S.				20 41 34	
eE	S.				20 41 51	
eFPSE	S.				20 42 41	
eSR ₁ N	S.				20 47 13	
eN	S.				20 47 31	
eSR ₂ E	S.				20 51.3	
eE	S.					
eLN	S.				21 00.4	
F	S.				22.6	

Continued on next page

No.	Date	Sta.	Phase	Inst.	h m s	Remarks				
472 (Con't.P)	Dec. 21	Fl.	eSKSE	G.W.	20 38 36	Δ SKS-H = 105.8 Δ meas = 106.7				
			esSKSE	G.W.	20 39 19					
			c(SR ₁)E	G.W.	20 46 53					
			eSR ₂ E	G.W.	20 51.5					
			eLE	G.W.	21 01.0					
			F	G.W.	22.2					
473	Dec. 21	S.L.	eSKSE	S.	22 52 29	Region of No. 472 h = 100 \pm Km				
			esSKSE	S.	22 53 13					
			iSN	S.	22 53 54					
			esSN	S.	22 54 40					
			ePSE	S.	22 55 25					
			ePPSE	S.	22 56 37					
			eN	S.	23 00 03					
			eN	S.	23 00 14					
			eSR ₂ E	S.	23 05 25					
			e(L)E	S.	23 12.4					
			F	S.	24.4					
		Fl.	eSKSE	G.W.	22 52 30					
			ePPSE	G.W.	22 56 37					
			eLE	G.W.	23 14 --					
F	G.W.	24.2								
474	Dec. 22	S.L.	eSKSN	S.	06 01 37	Region of No. 472				
			eSE	S.	06 03 16					
			eE	S.	06 08 51					
			eE	S.	06 13 07					
			eLE	S.	06 25.5					
			F	S.	07.3					
		Fl.	eLE	G.W.	06 26 --					
			F	G.W.	07.1					
			475	Dec. 22	S.L.		ePN	W.A.	22 42 30	Region of: 23.91 S., 71.92 W. H = 22h32m10s h = 150 \pm Km Sprengnether Instruments not operating
							eSE	W.A.	22 51 14	
476	Dec. 23	S.L.	ePnN	W.A.	07 24 20.5	Reported felt in Caruthersville, Missouri Δ Sn-Pn = 162 miles				
			eSnE	W.A.	07 24 49.7					
			iSnN	W.A.	07 24 50.7					
			iLE	W.A.	07 24 52.7					
477	Dec. 24	S.L.	eE	S.	15 14 18					
			eN	S.	15 16 40					
			eN	S.	15 17 46					
			eE	S.	15 34 32					
			e(L)E	S.	15 38 05					
			F	S.	16.4					

No.	Date	Sta	Phase	Inst.	h m s	Remarks	
478	Dec. 27	Fl.	iPR ₁ Z	G.W.	15 45 22	Epicentral Region: 6° 5' S., 151° 7' E. h = 100 [±] Km H = 15 ^h 25 ^m 50 ^s Δ _{PR₁-H} = 116° 2 Δ _{meas} = 116° 2	
			ipPR ₁ Z	G.W.	15 45 47		
			iSKKSE	G.W.	15 52 28		
			iPSE	G.W.	15 55 10		
			iLE	G.W.	16 25 —		
			F	G.W.	18.0		
479	Dec. 29	S.L.	ePZ	M.S.	23 02 32	Epicentral Region: 9° 2' N., 102° 0' W. H = 22 ^h 56 ^m 06 ^s Δ _{P-H} = 3195 Δ _{meas} = 3193 Δ _{S-H} = 3190 Δ _{meas} = 3194	
			iSE	S.	23 07 44		
			iSN	S.	23 07 53		
			F	S.	Lost		
		Fl.	eSN	G.W.	23 07 39		
			eLN	G.W.	23 11 00		
			F	G.W.	Lost		
480	Dec. 29	S.L.	ePZ	M.S.	23 10 08	Region of #479	
			i(S)E	S.	23 15 04		
			F	S.	Lost		
		Fl.	i(S)N	G.W.	23 16 03		
F	G.W.		Lost				
481	Dec. 29	S.L.	iPZ	M.S.	23 51 48	Region of #479	
			iN	S.	23 52 48		
			eE	S.	23 56 24		
			i(S)N	S.	23 56 46		
			i(S)N	S.	23 57 11		
			iLN	S.	24 01 56		
			F	S.	24.3		
			Fl.	e(S)N	G.W.		23 57 00
		F		G.W.	24.3		
		482	Dec. 30	S.L.	ePZ		M.S.
ipZ	M.S.				22 09 15		
iZ!	M.S.				22 09 24		
iSN	S.				22 14 15		
iLN	S.				22 16 08		
F	S.				23.2		
Fl.	iE				G.W.	22 09 19	
	iSE				G.W.	22 14 14	
	F			G.W.	23 — —		
483	Dec. 31			S.L.	ePZ	M.S.	22 01 12
		eSN	S.		22 05 40		
		eE	S.		22 06 07		
		eE	S.		22 06 28		
		eME	S.		22 12 48		
		F	S.		22.7		
		Fl.	eSN	G.W.	22 05 38		
			F	G.W.	22.5		

Minor Seismic Activity

Station	Date	From		To		Remarks
		h	m	h	s	
S.L.	December 7	16	01	16	06	
S.L.	7	21	42	22	38	
S.L.	8	09	25	09	53	
S.L.	13	03	29	03	48	
S.L.	17	14	17	15	09	
Fl.	17	14	39	15	05	
S.L.	17	22	13	22	31	
S.L.	18	17	57	18	06	
S.L.	21	00	12	00	56	
S.L.	22	02	40	03	05	
S.L.	22	09	48	10	07	
S.L.	22	11	30	12	10+	
S.L.	23	18	06	19	09	
S.L.	27	01	--	03.5		Strong surface waves.
Fl.	27	06	52	07	03	
Fl.	28	01	35	04	09	

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