





BULLETIN OF THE SEISMOGRAPHIC STATION  
OF THE  
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI  
FOR THE YEAR 1928

No.	Date	Char.	Phase	G. M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
4	Jan. 5	Iu	eP <sub>EN</sub>	21 55 28						Exact time correction could not be ascertained hence these times are uncertain.	
			iP <sub>N</sub>	21 55 29							
			iP <sub>c</sub> PE	21 55 35							
			iP <sub>c</sub> PN	21 55 37							
			iS <sub>EN</sub>	22 03 01							
			i <sub>EN</sub>	22 04 20							
			i <sub>E</sub>	22 06 20							
			F	22 29 <sup>±</sup>							
5	Jan. 6	IIu	e <sub>E(N)</sub> ?	19 47 32					Reported from Lake Baringo, Africa. Time of phases only approximate.		
			i <sub>E</sub>	19 48 24							
			e <sub>EN</sub>	19 50 54							
			e <sub>EN</sub>	19 54 22							
			e <sub>E</sub>	19 55 54							
			e <sub>N</sub>	19 56 39							
			e <sub>EN</sub>	19 58 22							
			e <sub>N</sub>	19 58 52							
			e <sub>EN</sub>	20 03 27							
			e <sub>EN</sub>	20 04 59							
			e <sub>EN</sub>	20 08 29							
			e <sub>N(?)</sub>	20 12 38							
			e <sub>EN</sub>	20 14 03							
			e <sub>LE</sub>	20 18 12							
			e <sub>LN</sub>	20 18 22							
			L <sub>1</sub> EN	20 21 47							
			i <sub>ME</sub>	20 25 00							
			i <sub>MN</sub>	20 26 00							
			M <sub>1</sub> E	20 29 38							
			M <sub>1</sub> N	20 32 00							
M <sub>2</sub> E	20 35 00										
F	22 28 <sup>±</sup>										
6	Jan. 9	I?	e <sub>EN(?)</sub>	13 35 00							
			e <sub>LEN</sub>	13 52 30							
			e <sub>ME</sub>	13 56 00							
			F	14 12 <sup>±</sup>							



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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
7	Jan. 10	Iu	eL <sub>E</sub>	3 02 00							
			eM <sub>N</sub>	3 23 00							
			eM <sub>E</sub>	3 27 00							
			eM <sub>1N</sub>	3 35 00							
			eM <sub>2N</sub>	3 41 00							
			F	4 03 <sup>±</sup>							
8	Jan. 12	Iu	iP <sub>EN</sub>	13 17 59							
			i <sub>N</sub>	13 18 00							
			i <sub>EN</sub>	13 18 14							
			i <sub>SN</sub>	13 27 07							
			eS <sub>E</sub>	13 27 07							
			e <sub>N</sub>	13 27 15							
			eSR <sub>1EN</sub>	13 32 05							
			eSR <sub>2N</sub>	13 35 21							
			eL <sub>E</sub> ?	13 44 00							
			M <sub>EN</sub> ?	13 47 00							
			M <sub>1E</sub>	13 51 00							
			M <sub>2E</sub>	13 55 00							
			F	15 30 <sup>±</sup>							
9	Jan. 18	Iu	eP <sub>N</sub> (?)	13 31 43							
			i <sub>SN</sub>	13 39 16							
			iP <sub>SE</sub>	13 39 26							
			iP <sub>SN</sub>	13 39 27							
			i <sub>EN</sub>	13 40 09							
			i <sub>EN</sub>	13 41 24							
			i <sub>EN</sub>	13 41 33							
			eL <sub>EN</sub> (?)	13 51 00							
			eM <sub>E</sub>	13 58 12							
			eM <sub>1E</sub>	13 59 00							
F	14 15 <sup>±</sup>										
10	Jan. 20	Iir	iP <sub>N</sub>	4 15 45							
			i <sub>SN</sub>	4 19 47							
			i <sub>L</sub>	4 22 05							
			F	4 41 <sup>±</sup>							



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				h.	m.	s.	e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
11	Jan. 22	Iv	i <sub>N</sub>	17	44	56							
			i <sub>E</sub>	17	44	57							
			i <sub>E</sub>	17	44	58							
			i <sub>E</sub>	17	45	02							
			i <sub>N</sub>	17	45	03							
			i <sub>E</sub>	17	45	07							
			i <sub>N</sub>	17	45	08							
			i <sub>M<sub>N</sub></sub>	17	45	42							
			F	17	48	±							
12	Jan. 25	Iu	e <sub>E</sub>	2	44	00							
			e <sub>E</sub>	2	46	00							
			e <sub>E</sub>	2	50	00							
			F	3	02	±							
13	Jan. 25	Ir	i <sub>PEN</sub>	21	11	56							
			i <sub>PR<sub>1</sub>EN</sub>	21	12	23							
			i <sub>S<sub>N</sub></sub>	21	16	06							
			e <sub>S<sub>E</sub></sub>	21	16	06							
			i <sub>SR<sub>1</sub>E</sub>	21	17	03							
			L <sub>E</sub>	21	19	02							
			F	21	37	±							
14	Jan. 26	Iu	e <sub>N</sub>	22	33	18							
			e <sub>N</sub>	22	56	00							
			e <sub>M<sub>N</sub></sub>	23	03	00							
			e <sub>M<sub>E</sub></sub>	23	10	00							
			e <sub>M<sub>1</sub>N</sub>	23	45	00							
			e <sub>M<sub>1</sub>E</sub>	23	46	00							
			F	23	56	±							
15	Jan. 30	Iu	e <sub>N</sub> ?	3	35	38							
			e <sub>E</sub> ?	3	35	41							
			e <sub>E</sub>	3	54	00							
			e <sub>L<sub>E</sub></sub>	4	26	00							
			e <sub>M<sub>E</sub></sub>	4	34	00							
			M <sub>N</sub>	4	43	00							
			M <sub>1</sub> E	4	43	48							
			F	5	24	±							



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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
16	Jan. 31 to Feb. 1	Iu	eL <sub>E</sub> F	23 58 38 00 17 <sup>±</sup>							
17	Feb. 2	Ir	eS <sub>E</sub> (?) iS <sub>EN</sub> (?) L <sub>E</sub> iM <sub>E</sub> iM <sub>N</sub> F	00 27 08 00 27 12 00 28 36 00 30 09 00 30 14 00 38 <sup>±</sup>							
18	Feb. 3	Iu	iP <sub>N</sub> i <sub>N</sub> e <sub>N</sub> (?) e <sub>E</sub> (?) iPR <sub>1N</sub> iPR <sub>2EN</sub> eS <sub>EN</sub> iS <sub>E</sub> iS <sub>N</sub> eL <sub>E</sub> eM <sub>E</sub> eM <sub>N</sub> M <sub>1N</sub> F	13 58 33 13 58 38 14 01 01 14 01 14 14 01 19 14 02 43 14 07 26 14 07 28 14 07 29 14 18 49 14 23 31 14 28 49 14 35 28 14 53 <sup>±</sup>							
19	Feb. 4	Iu	e <sub>E</sub> eM <sub>E</sub> M <sub>1E</sub> F	6 48 37 7 03 05 7 12 26 7 41 <sup>±</sup>							
20	Feb. 5	Iu	eL <sub>E</sub> e <sub>N</sub> F	23 36 40 23 37 40 24 40 <sup>±</sup>							
21	Feb. 7	Iu	e <sub>N</sub> i <sub>EN</sub> i <sub>N</sub> e <sub>N</sub>	00 21 17 00 21 28 00 21 32 00 24 35							



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	Az	
	Feb. 7 Cont'd		iN	00 25 28							
			eE	00 36 59							
			eE	00 42 53							
			eE	00 48 41							
			eE	00 55 41							
			eE	00 58 34							
			eE	01 00 50							
			eE	01 05 38							
			eLN	01 05 41							
			eLE	01 07 13							
			eMEN	01 19 41							
			M1EN	01 34 41							
			F	02 42 <sup>±</sup>							
22	Feb. 7	Iu	iN	18 07 18							
			eEN	18 16 30							
			eN	18 21 22							
			eE	18 21 24							
			eLN	18 25 35							
			F	18 35 <sup>±</sup>							

Owing to change in time service our instruments were not in operation from February 8th, 8:00 A.M. to February 10th, 5:00 P.M. and the absolute times are not very reliable in the following two weeks or more.

23	Feb. 17	Iu	eE	13 37 00							
			eMEN	13 40 10							
			M1E	13 46 00							
			F	13 53 <sup>±</sup>							
24	Feb. 19	Ir	eE	19 17 14							
			eN	19 17 19							
			iN	19 17 21							
			eMEN	19 21 00							
			F	19 29 <sup>±</sup>							
25	Feb. 19	Iu	e(P)N	21 17 00							
			iN	21 19 00							
			e(S)N	21 24 00							
			eLEN	21 31 00							
			eMN	21 35 00							
			F	21 45 <sup>±</sup>							
26	Feb. 21	IIu	iPE	19 58 10							Tentative epicenter: Arctic Ocean 68°4'N, 173°5'W. Δ = 52°5
			iPN	19 58 11							
			PR1N	20 00 03							
			eSEN	20 05 15							
			iEN	20 05 26							



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
	Feb. 21 Cont'd		iSR <sub>1</sub> N iSR <sub>1</sub> E eLEN iMEN F	20 09 03 20 09 06 20 12 46 20 16 02 22 07 <sup>±</sup>							
27	Feb. 22	Iu	eE LE ME F	13 35 00 13 47 00 13 53 00 14 20 <sup>±</sup>							
28	Feb. 24	Iu	eP <sub>1</sub> N iP <sub>1</sub> N eSN eE eSR <sub>1</sub> N eN LN LN ME F	14 19 38 14 21 31 14 26 43 14 30 32 14 30 43 14 30 46 14 34 35 14 35 38 14 38 37 15 23 <sup>±</sup>							
29	Feb. 25	Ir	eE LE? ME F	1 15 13 1 18 00 1 20 00 1 27 <sup>±</sup>							
30	Feb. 26	IIu	ePE PR <sub>1</sub> E iSE SR <sub>1</sub> E SR <sub>2</sub> E LE iME	1 28 19 1 30 39 1 35 42 1 39 44 1 41 20 1 45 12 1 46 39						Δ = 52 <sup>o</sup> .4 Probably Arctic Ocean, north of Bering Strait	
31	Feb. 29	Iu	eN eE eN eLEN? eMEN F	22 37 36 22 42 30 22 43 30 23 03 00 23 07 00 24 04 <sup>±</sup>							
32	Feb. 29	Ir	iN iEN iEN L F	22 46 19 22 46 26 22 46 32 22 46 59 22 57 <sup>±</sup>							Superposed on the above. Reported from Montana



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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
33	Mar. 6	Ir	e <sub>N</sub>	3 09 30							
			M <sub>EN</sub>	3 10 00							
			F	3 13 <sup>±</sup>							
34	Mar. 7	I?	e <sub>E</sub> ?	11 09 40							
			e <sub>E</sub> ?	11 16 38							
			e <sub>E</sub>	11 24 12							
			L <sub>E</sub>	11 41 12							
			M <sub>E</sub>	11 42 12							
			F	11 48 <sup>±</sup>							
35	March 7-8	Iu	e <sub>N</sub>	23 15 38							
			e <sub>N</sub>	23 24 19							
			e <sub>N</sub>	23 29 34							
			e <sub>N</sub>	23 30 46							
			L <sub>N</sub>	23 37 12							
			M <sub>N</sub>	23 44 03							
			M <sub>1N</sub>	23 52 07							
			M <sub>2N</sub>	23 56 24							
F	24 39 <sup>±</sup>										
36	Mar. 8	Ir?	e <sub>N</sub>	5 46 12							
			i <sub>N</sub>	5 49 41							
			e <sub>N</sub>	5 53 46							
			F	6 04 <sup>±</sup>							
37	Mar. 9	IIIu	i <sub>PN</sub>	18 25 04							Indian Ocean South of Bay of Bengal apparently 89° E 1° S
			e <sub>E</sub>	18 25 15							
			e <sub>PR1N</sub>	18 28 27							
			i <sub>ScPcPEN</sub>	18 28 39							
			i <sub>PR2</sub>	18 31 33							
			i <sub>ScPcSEN</sub>	18 32 09							
			i <sub>PR3EN</sub>	18 34 35							
			i <sub>ScPcPcSE</sub>	18 34 54							
			i <sub>ScPcPcSN</sub>	18 34 57							
e <sub>EN</sub>	18 36 59										



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude			Remarks
						A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
			ePS <sub>EN</sub>	18 39 31					
			iN	18 41 24					
			iN	18 43 47					
			SR <sub>1</sub> EN	18 46 46					
			SR <sub>2</sub> EN	18 52 42					
			SR <sub>3</sub> N	18 57 12					
			iN	19 00 27					
			iLE	19 11 27					
			iLN	19 13 41					
			iMN	19 23 48					
			iME	19 24 55					
			F	21 55 <sup>±</sup>					
38	Mar. 13	Iu	eN ?	18 51 ?					Beginning obscured by change of record sheet.
			iEN	18 59 05					
			iEN	19 00 53					
			iEN	19 01 26					
			eEN	19 02 29					
			eN	19 06 32					
			eE	19 06 48					
			eEN	19 07 22					
			eN	19 09 38					
			eN	19 10 22					
			eE	19 11 39					
			eEN	19 18 12					
			eLE	19 24 12					
			eLN	19 25 00					
			eMN	19 27 12					
			eME	19 27 39					
			F	20 55 <sup>±</sup>					
39	Mar. 16	IIIu	ePR <sub>1</sub> N	5 20 07					No record on E-W component. Pacific Ocean. 23° S 171° E
			eS <sub>c</sub> P <sub>c</sub> S <sub>N</sub>	5 26 48					
			iS <sub>c</sub> P <sub>c</sub> P <sub>c</sub> S <sub>N</sub>	5 27 38					
			iPS <sub>N</sub>	5 29 45					



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					e	n	z	AE	AN	AZ	
			iN	5 32 58							
			eSR <sub>1</sub> N	5 35 31							
			iN	5 39 39							
			LN	5 46 21							
			MN	5 54 12							
			M <sub>1</sub> N	6 06 30							
			W <sub>2</sub>	7 15 00							
			F	9 31 <sup>±</sup>							
40	Mar. 16	Iv	iP <sub>E</sub>	21 15 27							
			iE	21 15 28							
			iE	21 15 31							
			iS <sub>EN</sub>	21 15 36							
			L <sub>EN</sub>	21 15 41							
			M <sub>E</sub>	21 15 55							
			M <sub>N</sub>	21 16 10							
			F	21 18 <sup>±</sup>							
41	Mar. 18	Iu	L <sub>EN</sub>	3 48 00							
			M <sub>E</sub>	3 56 58							
			M <sub>N</sub>	4 05 40							
			M <sub>1E</sub>	4 06 40							
			F	4 53 <sup>±</sup>							
42	Mar. 18		eL <sub>EN</sub>	12 54 00							
			M <sub>EN</sub>	12 56 55							
			M <sub>1EN</sub>	13 05 00							
			M <sub>2EN</sub>	13 11 00							
			F	13 37 <sup>±</sup>							
43	Mar. 22	IIIr	iP <sub>EN</sub>	4 22 08							Off Pacific Coast of Mexico. 14°5' N 95°8' W
			iP <sub>C</sub> P <sub>EN</sub>	4 25 00							
			iS <sub>EN</sub>	4 26 22							
			iSR <sub>1</sub> EN	4 27 29							
			LN ?	4 28 10							
			L <sub>E</sub>	4 28 57							
			M <sub>N</sub>	4 31 39							
			M <sub>E</sub>	4 32 08							
			F	8 33 <sup>±</sup>							



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					e	n	z	AE	AN	Az	
44	Mar. 23	I ?	eEN eEN iN iEN F	11 21 06 11 22 06 11 24 18 11 24 26 11 27 <sup>±</sup>							
45	Mar. 23	Iu	ME MN F	20 56 00 20 57 00 21 23 <sup>±</sup>							
46	Mar. 26	Iu	eN ? eEN eN eE eLN eLE eMN M1N ME F	5 49 26 5 51 43 6 07 27 6 09 00 6 30 40 6 31 00 6 35 56 6 39 31 6 40 00 6 56 <sup>±</sup>							
47	Mar. 27	Ir	iPN iPR <sub>1</sub> N iN iN eSE iSN SR <sub>1</sub> N LE MN F	5 14 34 5 14 59 5 15 30 5 16 25 5 18 32 5 18 37 5 19 34 5 21 40 5 26 39 5 56 <sup>±</sup>							
48	Mar. 27	Iu	eLN eLE eMEN F	9 08 30 9 09 30 9 12 45 9 29 <sup>±</sup>							
49	Mar. 28	Iu	eLEN eME eMN M <sub>1</sub> E M <sub>1</sub> N F	20 27 00 20 29 00 20 33 00 20 36 00 20 48 00 21 10 <sup>±</sup>							

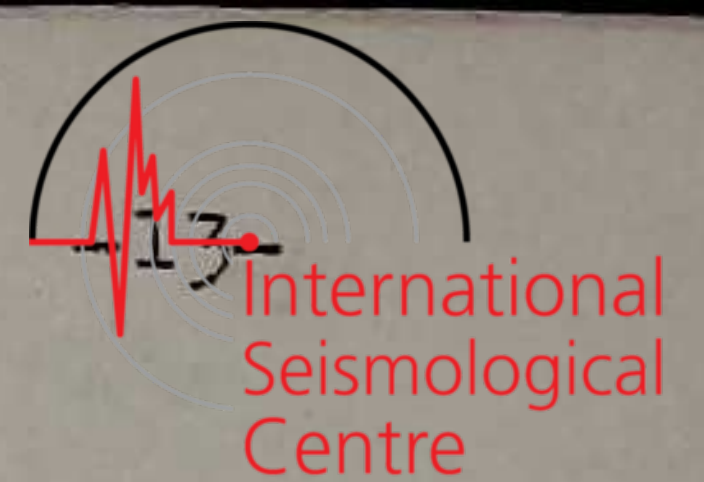


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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
50	Mar. 29	Iu?	eN?	5 18 36							
			i <sub>N</sub>	5 18 54							
			i <sub>N</sub>	5 20 31							
			i <sub>N</sub>	5 22 51							
			i <sub>N</sub>	5 22 56							
			i <sub>N</sub>	5 24 12							
			i <sub>N</sub>	5 25 04							
			e <sub>N</sub>	5 28 47							
			i <sub>N</sub>	5 28 48							
			e <sub>N</sub>	5 29 19							
			i <sub>N</sub>	5 29 42							
			i <sub>N</sub>	5 31 04							
			e <sub>N</sub>	5 31 38							
			e <sub>N</sub>	5 32 30							
			e <sub>N</sub>	5 33 31							
		eLN?	5 42 00								
		F	6 52 <sup>±</sup>								
51	Mar. 31	Iu	ePN?	00 42 25						Reported from Smyrna. Δ = 82°6	
			ePE	00 42 26							
			iPE	00 42 28							
			iPN	00 42 30							
			eSEN?	00 52 47							
			eSN	00 52 50							
			iSN	00 52 51							
			eSR <sub>1</sub> E	00 58 35							
			eSR <sub>2</sub> EN?	01 02 34							
			eLN	01 06 03							
			eLE	01 06 37							
			iMN	01 11 54							
			eME	01 12 20							
			M <sub>1</sub> N	01 16 09							
			M <sub>2</sub> E	01 22 00							
		F	02								



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					e	n	z	AE	AN	AZ	
52	April 3	I?	eE	1 41 27							
			eE	1 43 18							
			LE	1 49 18							
			ME	1 53 27							
			F	2 22-							
53	April 3	Iu	eEN?	16 55 44							
			eN	17 02 09							
			eE	17 05 49							
			eN	17 05 50							
			eEN	17 11 44							
			eEN	17 14 44							
			eN	17 19 44							
			LEN	17 22 44							
			ME	17 26 44							
			MN	17 29 24							
			M <sub>1</sub> EN	17 35 00							
			F	18 22±							
54	April 7	Iu	eN?	20 36 15							
			eN	20 40 11							
			eN	20 45 00							
			eL <sub>N</sub> ?	20 54 00							
			M <sub>N</sub>	21 07 47							
			M <sub>1</sub> N	21 11 40							
			M <sub>2</sub> N	21 18 40							
F	21 43±										
55	April 9	Iu	iPE	17 43 46							Southeastern Peru Δ = 53.5
			eSE	17 51 16							
			iPSE	17 51 31							
			iE	17 53 31							
			iE	17 54 17							
			eLE	17 58 54							
			iME?	18 03 30							
			M <sub>1</sub> E	18 04 54							
F	20 42±										



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
56	April 10	I?	i <sub>EN</sub>	6 15 42							
			i <sub>N</sub>	6 15 51							
			i <sub>N</sub>	6 16 05							
			eL <sub>EN</sub>	6 20 00							
			eM <sub>E</sub>	6 26 00							
			F	6 56 <sup>±</sup>							
57	April 10	I?	e <sub>EN</sub>	16 46 41							
			eS <sub>EN</sub> ?	16 51 17							
			iS <sub>E(N)</sub>	16 51 24							
			L <sub>EN</sub>	16 54 03							
			iM <sub>EN</sub>	16 55 24							
			F	17 13 <sup>±</sup>							
58	April 10	I?	e <sub>EN</sub>	21 42 40							
			eM <sub>EN</sub>	21 45 07							
			F	21 57 <sup>±</sup>							
59	April 12	Iu	e <sub>N</sub> ?	18 20 01							
			e <sub>EN</sub>	18 28 50							
			e <sub>E</sub>	18 29 54							
			e <sub>N</sub>	18 33 13							
			e <sub>N</sub>	18 36 13							
			e <sub>E</sub>	18 37 13							
			e <sub>EN</sub>	18 46 00							
			L <sub>N</sub>	18 49 00							
			M <sub>EN</sub>	18 55 00							
			F	19 17 <sup>±</sup>							
60	April 13	Ir	iP <sub>EN</sub>	23 21 24							In Pacific Ocean, south of Mexico Δ = 25°9
			iPR <sub>1N</sub>	23 21 59							
			iS <sub>EN</sub>	23 25 48							
			iSR <sub>2N</sub>	23 27 19							
			iL <sub>EN</sub>	23 28 31							
			iM <sub>E</sub>	23 31 19							
			F	25 12 <sup>±</sup>							



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
56	April 10	I?	i <sub>EN</sub>	6 15 42							
			i <sub>N</sub>	6 15 51							
			i <sub>N</sub>	6 16 05							
			e <sub>LEN</sub>	6 20 00							
			e <sub>ME</sub>	6 26 00							
			F	6 56 <sup>±</sup>							
57	April 10	I?	e <sub>EN</sub>	16 46 41							
			e <sub>S<sub>EN</sub>?</sub>	16 51 17							
			i <sub>SE(N)</sub>	16 51 24							
			L <sub>EN</sub>	16 54 03							
			i <sub>M<sub>EN</sub></sub>	16 55 24							
			F	17 13 <sup>±</sup>							
58	April 10	I?	e <sub>EN</sub>	21 42 40							
			e <sub>M<sub>EN</sub></sub>	21 45 07							
			F	21 57 <sup>±</sup>							
59	April 12	Iu	e <sub>N?</sub>	18 20 01							
			e <sub>EN</sub>	18 28 50							
			e <sub>E</sub>	18 29 54							
			e <sub>N</sub>	18 33 13							
			e <sub>N</sub>	18 36 13							
			e <sub>E</sub>	18 37 13							
			e <sub>EN</sub>	18 46 00							
			L <sub>N</sub>	18 49 00							
			M <sub>EN</sub>	18 55 00							
			F	19 17 <sup>±</sup>							
60	April 13	Ir	i <sub>P<sub>EN</sub></sub>	23 21 24							In Pacific Ocean, south of Mexico Δ = 25°9
			i <sub>PR<sub>1N</sub></sub>	23 21 59							
			i <sub>S<sub>EN</sub></sub>	23 25 48							
			i <sub>SR<sub>2N</sub></sub>	23 27 19							
			i <sub>L<sub>EN</sub></sub>	23 28 31							
			i <sub>M<sub>E</sub></sub>	23 31 19							
			F	25 12 <sup>±</sup>							



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks	
					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>		
61	April 14	IIu	iPN	9 12 13							Central Bulgaria $\Delta = 79^{\circ}.4$	
			iPE	9 12 14								
			iN	9 12 25								
			iSN	9 22 22								
			iSE	9 22 23								
			iSR <sub>1</sub> N	9 27 39								
			iSR <sub>1</sub> E	9 27 45								
			LEN	9 33 25								
			L <sub>1</sub> EN	9 38 08								
			MEN	9 42 00								
			F	12 19 <sup>±</sup>								
62	April 15	Ir	eE	22 07 12								
			eN	22 10 06								
			iLN	22 10 55								
			iLE	22 11 03								
			eME	22 12 54								
			F	22 24 <sup>±</sup>								
63	April 16	I?	eE?	8 57 02								
			eEN	9 03 30								
			LEN	9 23 00								
			F	9 34 <sup>±</sup>								
64	April 17	IIr	iPEN	3 30 09							Oaxaca, Mexico $\Delta = 22^{\circ}.8$	
			iPR <sub>1</sub> EN	3 30 35								
			iPR <sub>2</sub> EN	3 30 44								
			iEN	3 31 00								
			iP <sub>c</sub> PEN	3 33 59								
			iSE	3 34 09								
			iSN	3 34 10								
			iEN	3 35 00								
			iSR <sub>2</sub> EN	3 35 21								
			iL <sub>1</sub> EN	3 36 00								
			iME	3 37 16								
			F	5 52 <sup>±</sup>								



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	Az	
65	April 18	Ir	eP <sub>EN</sub>	3 52 18							
			iS <sub>EN</sub>	3 56 13							
			eL <sub>N</sub>	3 58 00							
			iM <sub>EN</sub>	3 59 08							
			M <sub>1E</sub>	4 00 29							
			F	4 49 <sup>±</sup>							
66	April 18	IIu	eP <sub>E</sub>	19 35 06							Destructive in Bulgaria.
			iP <sub>N</sub>	19 35 08							
			iS <sub>N</sub>	19 45 12							
			eS <sub>E</sub>	19 45 13							
			iE	19 45 17							
			P <sub>S</sub> <sub>N</sub>	19 45 34							
			iE	19 45 39							
			iE <sub>N</sub>	19 45 59							
			SR <sub>1E</sub> <sub>N</sub>	19 50 40							
			iE <sub>N</sub>	19 56 05							
			L <sub>E</sub> <sub>N</sub>	19 57 12							
			M <sub>E</sub> <sub>N</sub>	20 05 00							
			F	22 56 <sup>±</sup>							
67	April 22	I?	eE <sub>N</sub>	5 14 44							
			iN	5 16 43							
			iE	5 16 45							
			iN	5 16 58							
			iN	5 18 15							
			L <sub>N</sub>	5 34 00							
			M <sub>E</sub> <sub>N</sub>	5 40 00							
			F	5 43 <sup>±</sup>							
68	April 22	Iu	eP <sub>E</sub> ?	20 26 13							Destructive in Greece
			iE	20 26 39							
			eS <sub>E</sub>	20 36 25							
			iS <sub>E</sub>	20 36 29							
			eE	20 37 22							
			SR <sub>1E</sub>	20 42 10							
			eL <sub>E</sub>	20 51 00							
			iM <sub>E</sub>	20 53 38							
			M <sub>1E</sub>	21 01 00							
			F	22 05 <sup>±</sup>							



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
69	Apr. 24	Iu	eE?	15 53 20							
			eN?	15 53 33							
			iEN	15 54 35							
			iN	15 57 40							
			iSE	16 02 37							
			iSN	16 02 38							
			iE	16 02 52							
			eLN	16 12 00							
			eLE	16 12 30							
			MN	16 16 30							
			ME	16 17 00							
			MLEN	16 21 00							
F	17 08 <sup>±</sup>										
70	Apr. 24	Iu	eEN	20 13 47							
			eE	20 30 52							
			eE	20 31 54							
			iEN	20 39 57							
			eE	20 46 42							
			eN	20 48 42							
			eEN	20 55 00							
			eME	20 58 20							
F	End covered by following										
71	Apr. 24	Iu	eEN?	21 40 37							
			iEN	21 50 38							
			LN	22 03 42							
			LE	22 04 42							
			MN	22 08 45							
			F	Lost in the following							
72	Apr. 24	Iu	iN	22 32 16							
			iE	22 32 25							
			F	23 16 <sup>±</sup>							
73	Apr. 25	Iu	LN	10 08 01							
			MII	10 12 00							
			F	10 24 <sup>±</sup>							



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	A <sub>E</sub>	A <sub>y</sub>	A <sub>z</sub>	
74	April 24	Iu	e <sub>N</sub>	16 30 00							
			eM <sub>N</sub>	16 35 21							
			F	16 47 <sup>±</sup>							
75	April 26	Ir	iP <sub>N</sub>	19 42 44							
			eP <sub>E</sub>	19 42 46							
			e <sub>E</sub>	19 46 47							
			iS <sub>N</sub>	19 46 58							
			i <sub>E</sub>	19 47 09							
			F	20 20 <sup>±</sup>							
76	April 27	Ir	iP <sub>N</sub>	00 12 17							
			eS <sub>N</sub>	00 16 43							
			iS <sub>N</sub>	00 16 45							
			iS <sub>E</sub>	00 16 47							
			e <sub>EN</sub>	00 18 29							
			eM <sub>N</sub>	00 21 38							
			F	00 53 <sup>±</sup>							
77	April 27	IIu	iP <sub>N</sub>	20 44 59							
			eP <sub>E</sub>	20 44 30							
			iPR <sub>1N</sub>	20 46 45							
			iPR <sub>2N</sub>	20 47 44							
			iS <sub>EN</sub>	20 52 06							
			iPS <sub>EN</sub>	20 52 16							
			i <sub>E</sub>	20 54 17							
			SR <sub>1EN</sub>	20 56 07							
			L <sub>EN</sub> ?	21 00 36							
			M <sub>N</sub>	21 06 45							
			M <sub>E</sub>	21 06 51							
			M <sub>1N</sub>	21 11 02							
F	22 54 <sup>±</sup>										



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
78	May 1	Iu	ePN	00 23 21							
			iSEN	00 32 46							
			eSR <sub>1</sub> EN	00 37 39							
			eSR <sub>2</sub> EN	00 40 41							
			LEN	00 43 49							
			MN	00 48 29							
			M <sub>1</sub> EN	00 57 09							
			F	01 39 <sup>±</sup>							
79	May 1	Iu?	ePN?	2 27 02							
			eSN	2 36 36							
			eN	2 46 29							
			F	2 59 <sup>±</sup>							
80	May 1	I?	eN	9 50 21							
			iN	9 51 08							
			F	9 57 <sup>±</sup>							
81	May 1	Ir	eEN	19 11 13							
			iSEN	19 15 07							
			eSR <sub>1</sub> N	19 16 16							
			eSR <sub>2</sub> N	19 16 45							
			L	19 18 28							
			M	19 20 30							
			F	20 44 <sup>±</sup>							
82	May 2	Iu	eN	12 06 30							
			eE	12 09 20							
			MEN	12 16 30							
			F	12 42 <sup>±</sup>							
83	May 2	Iu	eN?	15 19 11							
			eE	15 24 15							
			MEN	15 45 00							
			F	15 57 <sup>±</sup>							



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					e	n	z	AE	AN	AZ	
84	May 2	Iu	ePEN	22 06 57							Epicenter in Asia Minor - opposite Con- stantinople.
			iSEN	22 17 27							
			PSN	22 18 35							
			SR <sub>1</sub> N	22 23 04							
			eN	22 23 48							
			LEN	22 31 27							
			MEN	22 38 27							
			M <sub>1</sub> N	22 40 30							
F	23 45 <sup>+</sup>										
85	May 8	I ?	iN	4 57 05							
			iN	4 59 08							
			eEN	5 00 04							
			i(S)EN	5 06 05							
			i(L)EN	5 09 35							
			F	6 11 <sup>±</sup>							
86	May 10	I ?	eEN	2 40 12							
			eEN	2 42 12							
			eE	2 47 00							
			eN	2 50 00							
			eE	2 52 00							
			F	3 02 <sup>±</sup>							
87	May 10	I ?	eLN	20 40 31							
			eM <sub>N</sub>	20 41 38							
			eM <sub>E</sub>	20 42 22							
			F	20 49 <sup>±</sup>							
88	May 12	Ir	eN	20 49 30							
			eE	20 49 32							
			eN	20 54 20							
			eLE	21 03 38							
			MEN	21 07 00							
			F	21 46 <sup>+</sup>							



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				h.	m.	s.	e	n	z	AE	AN	AZ	
89	May 14	IIIr- u	iPN	22	23	02							Very destructive in northern Peru on east slope of Andes. $\Delta = 45.1$
			ePE	22	23	03							
			iPR <sub>1</sub> N	22	24	51							
			iN	22	25	05							
			iE	22	25	11							
			iPR <sub>2</sub> N	22	25	28							
			iPR <sub>3</sub> N	22	25	44							
			iN	22	28	45							
			iN	22	29	27							
			iSEN	22	29	39							
			iPSEN	22	29	49							
			iSR <sub>1</sub> E	22	32	57							
			iEN	22	33	27							
			iSR <sub>2</sub> E	22	34	06							
			iSR <sub>3</sub> EN	22	54	39							
			iLEN	22	36	49							
			iMEN	22	38	26							
W <sub>2</sub>	25	09	50										
F	26	28 <sup>±</sup>											
90	May 15	Iu	ePN	2	44	26						Apparently an aftershock of the above.	
			iPN	2	44	31							
			iPR <sub>1</sub>	2	46	24							
			eSE	2	51	02							
			iPSEN	2	51	15							
			iSR <sub>1</sub> E	2	54	22							
			iSR <sub>1</sub> N	2	54	26							
			F	4	49 <sup>±</sup>								
91	May 16	Iu	ePN	5	23	25							
			ePE	5	23	27							
			eSN	5	31	42							
			eSE	5	31	44							
			F	6	27 <sup>±</sup>								
92	May 16	Iu	iPN	8	05	05							
			eSE	8	11	37							
			iSE	8	11	40							
			eE	8	14	56							
			eN	8	15	18							
			F	8	55 <sup>±</sup>								



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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
93	May 17	I ?	eN	22 54 15							
			eE	22 54 20							
			eN	22 59 50							
			eMN	23 02 21							
			F	23 18 <sup>±</sup>							
94	May 17	I ?	eN	11 02 30							
			iN	11 02 38							
			eEN	11 10 24							
			eEN	11 19 59							
			MN	11 27 00							
			F	12 22 <sup>±</sup>							
95	May 18	Iu	e(P)EN	2 24 15							
			e(S)EN	2 32 19							
			eN	2 39 21							
			LEN	2 42 00							
			MN	2 47 00							
			ME	2 48 00							
			MLEN	2 52 00							
			F	3 22 <sup>±</sup>							
96	May 18	Iu	eE	3 32 04							
			eE	3 32 34							
			MEN	3 52 00							
			F	4 13 <sup>±</sup>							
97	May 19	Iu	eEN	4 10 12							
			eN	4 15 50							
			eN	4 28 50							
			LE	4 34 00							
			ME	4 36 40							
			F	5 13 <sup>±</sup>							
98	May 19	Iu	eN	9 55 36							
			eN	9 56 00							
			iE	9 56 32							
			eEN	10 02 14							
			LEN	10 12 10							
			MEN	10 17 48							
			F	11 17 <sup>±</sup>							



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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
99	May 20	Iu	eEN	16 54 00							
			eEN	17 00 34							
			eLN	17 16 00							
			M <sub>N</sub>	17 19 45							
			F	17 41 <sup>±</sup>							
100	May 21	Ir	eN	2 21 48							
			eEN	2 26 12							
			LN	2 33 00							
			M <sub>EN</sub>	2 35 18							
			M <sub>1</sub> EN	2 37 00							
			F	3 57 <sup>±</sup>							
101	May 21	I ?	e <sub>N</sub>	13 59 05							
			L <sub>EN</sub>	14 18 44							
			M <sub>EN</sub>	14 28 00							
			F	14 49 <sup>±</sup>							
102	May 23	I ?	eN	21 43 00							
			eEN	21 46 00							
			M <sub>EN</sub>	21 12 00							
			F	22 19 <sup>±</sup>							
103	May 24	Ir?	ePE	5 44 52							
			iPN	5 44 55							
			iEN	5 50 16							
			eE	5 53 00							
			eN	5 55 00							
			M <sub>EN</sub> ?	6 01 00							
F	6 34 <sup>±</sup>										
104	May 26	Iu	iPEN	8 40 24							
			iEN	8 40 56							
			eN	8 43 10							
			eE	8 43 15							
			eN	8 44 53							
			iSN	8 47 53							
			eSN	8 47 53							
			eEN	8 48 20							
			eEN	8 48 32							
			L	9 05 00							
			F	9 24 <sup>±</sup>							



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				h.	m.	s.	e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
105	May 26	I ?	iN	14	11	30							
			eN	14	13	22							
			eN	14	18	26							
			eN	14	21	35							
			eN	14	24	33							
			eN	14	27	46							
			LN	14	29	05							
			MEN	14	33	26							
			F	15	03	±							
106	May 27	IIu	ePN	10	03	14							In the Tuscarora Deep -- off the coast of Japan $\Delta = 86^{\circ}.3$
			ePE	10	03	17							
			ePR <sub>2</sub> N	10	08	44							
			ePR <sub>3</sub> N	10	10	13							
			iScPcSEN	10	13	40							
			iSEN	10	13	55							
			iSPSEN	10	19	47							
			eN	10	23	39							
			iSR <sub>3</sub> N	10	26	22							
			eLEN	10	28	22							
			MEN	10	35	22							
			M <sub>1</sub> N	10	45	56							
						F	14	07	±				
107	May 28	Iu	eE	7	00	43							
			eEN	7	06	12							
			eEN ?	7	09	19							
			eN	7	15	40							
			eE	7	16	46							
			eLN	7	22	16							
			eMN	7	27	00							
			LE ?	7	30	50							
			ME	7	35	00							
			F	8	32	±							
108	May 28	Iu	eN	15	58	57							
			eE	15	59	09							
			iEN	15	59	13							
			eE	16	04	56							
			eN	16	05	06							
			LEN	16	18	00							
			ME	16	24	00							



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No.	Date	Mhar.	Phase	G.M. Time			Period			Amplitude			Remarks
				h.	m.	s.	e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
	May 28 Cont'd		MN M <sub>1</sub> E M <sub>1</sub> N F	16	30	00 36 00 16 <sup>±</sup>							
109	May 30	Iu	e <sub>E</sub> e <sub>EN</sub> e <sub>N</sub> e <sub>LE</sub> M <sub>E</sub> F	6	49	00 00 30 00 00 34 <sup>±</sup>							
110	May 31	Iu	e <sub>N</sub> ? e <sub>SEN</sub> e <sub>EN</sub> e <sub>EN</sub> M <sub>N</sub> F	7	38	50 18 23 00 00 43 <sup>±</sup>							
111	May 31	Iu	e <sub>EN</sub> e <sub>N</sub> e <sub>EN</sub> M <sub>N</sub> F	14	18	04 00 23 00 12 <sup>±</sup>							
112	May 31	Iu	e <sub>N</sub> e <sub>EN</sub> L <sub>N</sub> M <sub>E</sub> F	21	35	00 00 00 00 31 <sup>±</sup>							
113	May 31	Iu	e <sub>EN</sub> e <sub>E</sub> e <sub>N</sub> e <sub>EN</sub> e <sub>EN</sub> L M F	23	49	00 00 00 21 10 00 00 57 <sup>±</sup>							



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	s	AE	AN	AZ	
114	June 1	Iu	eE	8 42 57							
			eN	8 46 00							
			eL	9 03 00							
			M	9 07 00							
			F	9 16 <sup>±</sup>							
115	June 1	Iu	eEN	12 47 00							
			M <sub>EN</sub>	13 13 00							
			F	Covered by following							
116	June 1	Iu	eP <sub>EN</sub>	13 25 07							Tuscarora Deep
			S <sub>c</sub> P <sub>c</sub> S <sub>N</sub>	13 35 32							
			S <sub>c</sub> P <sub>c</sub> S <sub>E</sub>	13 35 35							
			S <sub>N</sub>	13 35 47							
			S <sub>E</sub>	13 35 51							
			SR <sub>1</sub> EN	13 41 41							
			SR <sub>2</sub> EN	13 45 57							
			M <sub>E</sub>	13 53 00							
			M <sub>N</sub>	13 54 00							
			F	15 37 <sup>±</sup>							
117	June 3	Iu	eE	3 28 50							
			eN	3 29 00							
			L <sub>E</sub>	3 48 00							
			F	4 19 <sup>±</sup>							
118	June 3	I?	e <sub>EN</sub>	6 46 58							
			i <sub>E</sub>	6 55 39							
			L <sub>N</sub>	6 57 10							
			F	7 08 <sup>±</sup>							
119	June 3	Iu	e <sub>EN</sub>	8 48 44							
			e <sub>E</sub>	9 03 42							
			eL <sub>EN</sub>	9 16 00							
			eM <sub>E</sub>	9 25 00							
			eM <sub>N</sub>	9 27 00							
			F	10 28							



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No.	Date	Phase	G.M. Time h. m. s.	Period			Amplitude			Char.	Remarks
				e	n	z	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>		
120	June 3	L <sub>EN</sub>	23 01 28							Iu	
		M <sub>EN</sub>	23 05 39								
		F	23 16 <sup>±</sup>								
121	June 4	e <sub>EN</sub>	2 24 00							I?	
		F	2 44 <sup>±</sup>								
122	June 5	e <sub>ME</sub>	6 51 00							I?	
		e <sub>MN</sub>	6 57 00								
		F	7 07 <sup>±</sup>								
123	June 6	e <sub>EN</sub>	16 57 00							I?	
		F	17 03 <sup>±</sup>								
124	June 6	e <sub>N</sub>	19 47 00							Iu	
		e <sub>EN</sub>	19 55 00								
		e <sub>MEN</sub>	19 58 00								
		F	20 34 <sup>±</sup>								
125	June 7	e <sub>ME</sub>	3 26 00							Iu	
		F	3 34 <sup>±</sup>								
126	June 8	e <sub>E?</sub>	6 04 59							Ir	
		e <sub>E?</sub>	6 09 26								
		i <sub>E</sub>	6 11 33								
		i <sub>ME</sub>	6 12 00								
		F	6 29 <sup>±</sup>								
127	June 8	e <sub>PE(N)</sub>	14 53 20							Iu	
		e <sub>SE</sub>	15 02 54								
		P <sub>SE</sub>	15 03 36								
		L <sub>N</sub>	15 18 00								
		M <sub>N</sub>	15 22 30								
		L <sub>E</sub>	15 23 00								
		M <sub>E</sub>	15 26 00								
		F	17 41 <sup>±</sup>								
128	June 8	e <sub>PE</sub>	2 45 42							Ir	
		e <sub>SE</sub>	2 49 10								
		e <sub>SN</sub>	2 49 12								
		L <sub>N</sub>	2 51 14								
		M <sub>N</sub>	2 53 24								
		F	3 21 <sup>±</sup>								



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No.	Date	Char.	Phase	G.M. Time			Period			Amplitude			Remarks
				h.	m.	s.	e	n	z	AE	AN	AZ	
129	June 15	IIu	eE	6	32	24							South China Sea $\Delta = 124^{\circ}8$
			iFR <sub>1</sub> E	6	33	01							
			eFR <sub>2</sub> E	6	35	28							
			ePR <sub>3</sub> E	6	38	25							
			eS <sub>c</sub> P <sub>c</sub> P <sub>c</sub> S	6	39	30							
			iPS <sub>E</sub>	6	42	58							
			iSR <sub>1</sub> E	6	49	31							
			eE	6	53	46							
			eSR <sub>3</sub> E	6	58	40							
			eL <sub>E</sub>	7	04	16							
			eM <sub>E</sub>	7	18	16							
F	9	32	<sup>+</sup> <sub>-</sub>										
130	June 15	Iu	eE	17	36	42						Apparently a repetition of the above.	
			eE	17	46	45							
			eE	17	48	55							
			eE	17	52	45							
			eE	17	59	45							
			eL <sub>E</sub>	18	07	00							
			eM <sub>E</sub>	18	19	00							
F	20	13	<sup>±</sup>										
131	June 17	IIIr	iP <sub>EN</sub>	3	24	33						Record hard to interpret owing to violence of shock or series of shocks. Acapulco Deep $\Delta = 24^{\circ}5$	
			iN	3	25	54							
			iN	3	28	30							
			iS <sub>EN</sub>	3	29	15							
			eL	3	31	23							
			F	9	00	<sup>±</sup>							
132	June 17	Ir	eP <sub>E</sub>	22	26	15						Aftershock $\Delta = 24^{\circ}8$	
			eS <sub>E</sub>	22	30	31							
			F	23	07	<sup>±</sup>							
133	June 17	Ir	iP <sub>E</sub>	23	29	59							
			eS <sub>E</sub>	23	34	12							
			F	24	31	<sup>±</sup>							
134	June 18	I?	eE?	15	45	30							
			eE	15	49	57							
			ME	15	57	00							
			F	16	17	<sup>±</sup>							



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No.	Date	Char.	Phase	G. M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
135	June 21	Iu	iS <sub>N</sub>	11 05 32						Fiji Islands	
			iPS <sub>N</sub>	11 06 41							
			e <sub>N</sub>	11 08 54							
			e <sub>N</sub>	11 13 53							
			L	11 21 47							
			F	13 30 <sup>±</sup>							
136	June 21	IIu	eP <sub>N</sub>	16 34 59						Acapulco Deep off coast of Mexico. Δ = 24.5	
			i <sub>N</sub>	16 35 05							
			iPR <sub>1N</sub>	16 36 28							
			iS <sub>EN</sub>	16 41 23							
			iSR <sub>1N</sub>	16 44 04							
			eSR <sub>2E</sub> ?	16 45 21							
			L	16 48 02							
F	20 30										
137	June 22	I?	e <sub>N</sub>	22 04 26							
			e <sub>N</sub>	22 04 49							
			F	22 22 <sup>±</sup>							
138	June 23	I?	e <sub>N</sub>	6 33 03							
			e <sub>N</sub>	6 35 29							
			e <sub>N</sub>	6 39 23							
			e <sub>N</sub>	6 40 42							
			F	6 57 <sup>±</sup>							
139	June 23	Iu	e <sub>EN</sub>	7 02 29							
			e <sub>N</sub>	7 12 47							
			e <sub>E</sub>	7 14 30							
			e <sub>E</sub>	7 19 08							
			e <sub>E</sub>	7 26 23							
			e <sub>EN</sub>	7 30 31							
			e <sub>E</sub>	7 32 59							
			eL <sub>EN</sub>	7 35 10							
			M <sub>EN</sub>	7 38 23							
F	8 20 <sup>±</sup>										



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
140	June 25	Iu	e <sub>E</sub> ?	7 28 40							
			e <sub>EN</sub>	7 30 28							
			e <sub>E</sub>	7 32 13							
			e(S) <sub>EN</sub>	7 39 25							
			e <sub>E(N)</sub>	7 40 49							
			e <sub>E</sub>	7 55 13							
			F	8 22 <sup>±</sup>							
141	June 27	Ir	e <sub>EN</sub>	1 56 08							
			i <sub>SN</sub>	2 00 37							
			e <sub>LEN</sub>	2 06 08							
			F	2 27 <sup>±</sup>							
142	June 29	Iv	e <sub>E</sub>	22 45 23							
			i <sub>E</sub>	22 45 27							
			i <sub>E</sub>	22 45 31							
			F	22 50 <sup>±</sup>							
143	June 29	IIu	e <sub>PE</sub>	23 03 52							
			e <sub>E</sub>	23 04 52							
			i <sub>PR1E</sub>	23 08 15							
			e <sub>E</sub>	23 10 15							
			PR <sub>3E</sub>	23 13 00							
			i <sub>ScPcSE</sub>	23 14 32							
			i <sub>PSE</sub>	23 17 24							
			P <sub>cScScPE</sub>	23 18 43							
			e <sub>SPSE</sub> ?	23 22 47							
			i <sub>SR1E</sub>	23 23 07							
			i <sub>E</sub>	23 26 48							
			e <sub>LE</sub>	23 38 34							
			e <sub>ME</sub>	23 47 33							
			W <sub>2</sub>	25 03 00							
F	26 13 <sup>±</sup>										
144	June 30	I?	i <sub>E</sub>	9 53 25							
			i <sub>E</sub>	9 53 29							
			e <sub>E</sub>	9 54 07							
			F	9 59 <sup>±</sup>							



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
145	June 30	Ir	i(S) <sub>E</sub>	22 45 39							
			eL <sub>E</sub>	22 48 21							
			F	22 53 <sup>±</sup>							
146	July 1	Iu	e <sub>N</sub>	9 23 34							
			e <sub>N</sub>	9 29 18							
			e <sub>N</sub>	9 30 05							
			e <sub>N</sub>	9 31 18							
			e <sub>N</sub>	9 33 14							
			L <sub>EN</sub>	9 34 14							
			M <sub>N</sub>	9 42 42							
			F	10 38 <sup>±</sup>							
147	July 3	Iv	i <sub>N</sub>	22 35 13							
			i <sub>E</sub>	22 35 14							
			i <sub>N</sub>	22 35 18							
			i <sub>N</sub>	22 35 24							
			F	22 35 25							
148	July 6	Ir	eP <sub>N</sub>	00 59 05							
			i <sub>N</sub>	1 00 57							
			eS <sub>N</sub>	1 03 02							
			eS <sub>E</sub>	1 03 06							
			SR <sub>1N</sub>	1 03 59							
			F	1 34 <sup>±</sup>							
149	July 7	Ir	iP <sub>N</sub>	3 39 04							
			i <sub>N</sub>	3 39 13							
			ePR <sub>1N</sub>	3 39 34							
			i <sub>N</sub>	3 39 47							
			e <sub>N</sub>	3 40 40							
			iS <sub>N</sub>	3 43 18							
			e <sub>N</sub>	3 43 59							
			L <sub>N</sub>	3 47 13							
			eM <sub>N</sub>	3 49 29							
			F	4 26 <sup>±</sup>							







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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
156	July 11	Iu	e <sub>EN</sub>	3 17 05							
			e <sub>E</sub>	3 19 26							
			e <sub>N</sub>	3 23 45							
			e <sub>E</sub>	3 24 00							
			e <sub>N</sub>	3 25 19							
			e <sub>E</sub> (L)	3 35 12							
			M <sub>E</sub>	3 41 00							
			M <sub>1EN</sub> F	3 57 23 4 55 <sup>±</sup>							
157	July 13	Iu	e <sub>EN</sub>	9 47 42							
			e <sub>EN</sub>	9 53 24							
			e <sub>E</sub>	9 55 07							
			e <sub>EN</sub>	9 57 00							
			e <sub>E</sub>	10 02 50							
			e <sub>N</sub>	10 06 00							
			e <sub>E</sub>	10 07 00							
			L <sub>N</sub>	10 21 00							
			L <sub>E</sub>	10 22 00							
			M <sub>N</sub>	10 31 00							
			M <sub>E</sub> F	10 35 00 11 05 <sup>±</sup>							
			158	July 15	Iu	e <sub>EN</sub> ?	9 55 00				
e <sub>LN</sub>	10 13 00										
e <sub>MN</sub>	10 21 00										
F	10 41 <sup>±</sup>										
159	July 17	I?	e <sub>N</sub>	16 15 00							
			e <sub>N</sub>	16 20 00							
			e <sub>N</sub>	16 24 00							
			e <sub>N</sub>	16 32 52							
			e <sub>N</sub> F	16 42 00 16 50 <sup>±</sup>							
			160	July 18	IIr	i <sub>PEN</sub>	19 13 19				
i <sub>PR<sub>1</sub>N</sub>	19 14 40										
i <sub>PR<sub>2</sub>N</sub>	19 15 09										
i <sub>SE</sub>	19 19 58										
i <sub>SN</sub>	19 19 59										
i <sub>PSN</sub>	19 20 12										
i <sub>SR<sub>1</sub>E</sub>	19 23 23										
i <sub>SR<sub>1</sub>N</sub>	19 23 26										



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
	July 18 Cont'd		iSR <sub>2E</sub> eLN iM <sub>N</sub> iM <sub>E</sub> F	19 24 33 19 26 49 19 36 47 19 37 18 23 15 <sup>±</sup>							
161	July 19	I?	eE eE F	5 57 00 6 01 00 6 08 <sup>±</sup>							
162	July 19	I?	eE F	16 01 00 16 09 <sup>±</sup>							
163	July 20	Iu	eE eE eE eE eE F	00 00 57 00 06 00 00 09 00 00 12 00 00 17 00 01 25 <sup>±</sup>							
164	July 20	I?	eE eE eE F	1 26 27 1 31 00 1 35 00 1 48 <sup>±</sup>							
165	July 21	I?	eE F	3 02 57 3 24 <sup>±</sup>							
166	July 21	I?	eP <sub>E</sub> eE eE eE F	6 36 51 6 41 08 6 46 55 6 52 04 6 55 <sup>±</sup>							
167	July 22	Ir	iP <sub>E</sub> iS <sub>E</sub> eM <sub>E</sub> F	7 34 18 7 38 34 7 43 34 8 19 <sup>±</sup>							Acapulco Deep Δ = 24.8



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				h.	m.	s.	e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
168	July 23	Iu	eE	8	02	14							
			eE	8	11	42							
			eE	8	15	48							
			eE	8	19	30							
			eE	8	31	30							
			eLE	8	35	30							
			eME	8	47	50							
F	9	15 <sup>±</sup>											
169	July 23	Iu	eE	15	35	30							
			eN	15	38	15							
			eE	15	38	47							
			eN	15	41	03							
			eLN	15	42	30							
			F	16	11 <sup>±</sup>								
170	July 25	Ir	eP <sub>N</sub>	18	54	29							
			eS <sub>N</sub>	18	58	54							
			eL <sub>N</sub>	19	01	24							
			iM <sub>N</sub>	19	02	30							
			F	19	45 <sup>±</sup>								
171	July 28	Iu	iP <sub>EN</sub>	20	01	36							
			iS <sub>EN</sub>	20	10	51							
			iE	20	11	13							
			eM <sub>EN</sub>	20	32	28							
			F	20	42 <sup>±</sup>								
172	July 30	Iu	eE?	2	26	46							May be beginning of another earth- quake
			eE	2	37	00							
			eE	2	44	00							
			eE?	2	53	30							
			eE	2	58	10							
			eE	3	03	10							
			ME	3	10	10							
F	3	58 <sup>±</sup>											



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
Instruments not in operation during August					
173	Sept. 1	I	e <sub>PN</sub> e <sub>SE</sub> e <sub>LN</sub> e <sub>M<sub>N</sub></sub> F	23 58 54 0 03 15 0 10 30 0 13 00 0 30 ±	Central America Δ = 25° 1 Absolute time uncertain
No records from September 2nd to 4th.					
174	Sept. 5	I	e <sub>N</sub> e <sub>M<sub>N</sub></sub> F	5 45 03 5 47 16 5 51 ±	
175	Sept. 5	I	e <sub>N</sub> e <sub>M<sub>N</sub></sub> F	14 53 30 14 54 00 15 10 ±	
176	Sept. 6	I	e <sub>N</sub> F	4 22 44 4 30 ±	
No records until October 17th.					
177	Oct. 17	I	e <sub>N</sub> e <sub>N</sub> e <sub>N</sub> F	15 43 14 15 43 53 15 50 53 17 13 ±	
178	Oct. 19	I	e	10 37 -	Record cannot be read
179	Oct. 23	I	e <sub>EN</sub> e <sub>EN</sub> i <sub>SN</sub> i <sub>SE</sub> e <sub>PS<sub>EN</sub></sub> e <sub>N</sub> e <sub>LE</sub> e <sub>M<sub>EN</sub></sub> F	18 03 40 18 08 10 18 13 05 18 13 06 18 13 33 18 21 10 18 25 40 18 32 20 19 00 ±	Kamchatka 53°N. 157° 8 E.



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180	Oct. 25	II	iP <sub>N</sub> i <sub>N</sub> iS <sub>N</sub> iL <sub>N</sub> iM <sub>N</sub> F	12 38 46 12 40 06 12 43 21 12 46 30 12 48 30 14 20 ±	Felt in Nicaragua $\Delta = 27^{\circ}4$
181	Oct. 30	I	e <sub>EN</sub> e <sub>M<sub>N</sub></sub> F	0 12 00 0 12 20 0 22 ±	
182	Oct. 30	I	iP <sub>EN</sub> iS <sub>EN</sub> iL <sub>EN</sub> e <sub>M<sub>E</sub></sub> F	4 28 28 4 32 41 4 37 42 4 39 00 5 30 ±	Acapulco Deep $\Delta = 24^{\circ}5$
183	Nov. 1	II	eP <sub>EN</sub> iS <sub>EN</sub> F	4 16 51 4 20 12 4 09 ±	Epicenter: $25^{\circ}9'N.106^{\circ}W.$ $\Delta = 18^{\circ}$
184	Nov. 1	I	eP eS <sub>N</sub> ? eL <sub>N</sub> eM <sub>N</sub> F	cannot be read 16 20 50 16 28 00 16 33 00 17 00 ±	Reported from Bogota
185	Nov. 3	I	e <sub>E</sub> e <sub>E</sub> i <sub>EN</sub> i <sub>EN</sub> i <sub>EN</sub> ? i <sub>E</sub> F	4 04 43 4 05 07 4 06 10 4 06 15 4 06 25 4 06 44 4 11 ±	Appalachian Mts. Western North Carolina
186	Nov. 6	I	Record cannot be read		



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No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
187	Nov. 10	I	e <sub>EN</sub>	12 37 00	
			e <sub>EN</sub>	12 55 00	
			e <sub>EN</sub>	12 56 25	
			e <sub>E</sub>	13 03 00	
			e <sub>EN</sub>	13 24 00	
			e <sub>N</sub>	13 27 00	
			e <sub>LE</sub>	13 30 00	
			e <sub>ME</sub> F	13 40 25 14 30 ±	
188	Nov. 11	I	e <sub>EN</sub>	23 17 00	
			e <sub>N</sub>	23 24 50	
			e <sub>E</sub>	23 29 00	
			e <sub>LE</sub>	23 57 00	
			e <sub>ME</sub>	0 05 30	
			F	1 00 ±	
189	Nov. 15	I	e <sub>PE</sub>	13 28 08	Aleutian Islands Δ = 55°6
			i <sub>SE</sub>	13 35 52	
			e <sub>LEN</sub>	13 49 00	
			e <sub>ME</sub>	13 53 00	
			F	14 30 ±	
190	Nov. 27	I	No records November 16th to 26th		Distance 23°4
			i <sub>PN</sub>	3 40 21	
			i <sub>PE</sub>	3 40 22	
			e <sub>SN</sub>	3 44 25	
			F	3 50 ±	
191	Nov. 27	I	e <sub>EN</sub>	9 32 34	
			e <sub>EN</sub>	9 35 34	
			e <sub>LEN</sub>	9 40 04	
			e <sub>MN</sub>	9 44 24	
			F	10 20 ±	
192	Nov. 28	I	i <sub>PEN</sub>	1 28 23	Pacific Coast of Mexico Δ = 24°7
			i <sub>SEN</sub>	1 32 38	
			e <sub>LEN</sub>	1 36 07	
			e <sub>MEN</sub>	1 38 07	
			F	2 30 ±	



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No.	Date	Char.	Phase	G.M. Time			Remarks
				h.	m.	s.	
193	Nov. 28	I	e <sub>EN</sub> F	7	52	15 8 20 ±	
194	Nov. 28	I	e <sub>N</sub> e <sub>EN</sub> e <sub>EN</sub> e <sub>LE</sub> e <sub>ME</sub> e <sub>MN</sub> F	11	03	27 11 05 32 11 15 37 11 41 37 11 52 40 11 53 07 13 30 ±	
195	Nov. 29	I	e <sub>N</sub> ? e <sub>N</sub> i <sub>SEN</sub> e <sub>E</sub> e <sub>MEN</sub> F	12	31	20 12 34 45 12 43 15 12 43 33 13 01 00 13 20 ±	
196	Nov. 29	I	e <sub>E</sub> e <sub>E</sub> e <sub>LEN</sub> e <sub>ME</sub> F	14	09	30 14 18 30 14 40 00 14 45 30 15 10 ±	
197	Nov. 29	I	e <sub>EN</sub> e <sub>MEN</sub> F	16	08	00 16 30 00 17 25 ±	
198	Nov. 29	I	e <sub>E</sub> e <sub>N</sub> e <sub>N</sub> e <sub>EN</sub> e <sub>E</sub> e <sub>N</sub> e <sub>LE</sub> e <sub>ME</sub> e <sub>MN</sub>	18	15	50 18 20 25 18 26 25 18 34 00 18 43 00 18 46 40 18 52 00 19 00 00 19 00 30	



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			eM <sub>1N</sub>	19 07 00	
			eM <sub>2E</sub>	19 10 00	
			F	20 50 ±	
199	Nov. 29	I	iP <sub>N</sub>	23 24 48	
			iP <sub>E</sub>	23 24 49	
			e(S) <sub>EN</sub>	23 32 34	
			eL <sub>E</sub>	0 02 00	
			eM <sub>E</sub>	0 05 00	
			eM <sub>N</sub>	0 06 30	
			F	0 50 ±	
200	Dec. 1	III	iP <sub>EN</sub>	4 17 48	Destructive in Chile Δ = 73°4 Other phases cannot be read
			iS <sub>EN</sub>	4 27 22	
			F	9 00 ±	
201	Dec. 1	I	iP <sub>N</sub>	18 44 07	
			iS <sub>N</sub> ?	18 52 59	
			eS <sub>N</sub>	18 53 46	
			F	19 50 ±	
202	Dec. 2	I	eM <sub>EN</sub>	3 21 00	
			F	3 40 ±	
203	Dec. 2	II	eP <sub>EN</sub>	4 32 06	Repetition of No. 200
			iP <sub>N</sub>	4 32 08	
			iS <sub>E</sub>	4 41 43	
			iS <sub>N</sub>	4 41 44	
			iSR <sub>1EN</sub>	4 46 16	
			eM <sub>EN</sub>	4 59 30	
			F	7 30 ±	
204	Dec. 3	I	eP <sub>N</sub> ?	12 33 05	
			e <sub>EN</sub>	12 38 30	
			eM <sub>E</sub>	12 41 00	
			F	13 30 ±	



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No.	Date	Char.	Phase	G.M. Time			Remarks
				h.	m.	s.	
205	Dec. 5	I	iP <sub>EN</sub>	11	11	36	
			iS <sub>E</sub>	11	17	08	
			F	11	40	±	
206	Dec. 7	I	e <sub>N</sub>	9	36	00	
			e <sub>E</sub>	9	37	00	
			eSR <sub>1E</sub>	9	52	55	
			eL <sub>E</sub>	10	16	00	
			eM <sub>E</sub>	10	25	00	
			F	12	00	±	
207	Dec. 9	I	eP <sub>E</sub> ?	0	17	35	
			eS <sub>E</sub> ?	0	27	00	
			eL <sub>E</sub>	0	52	00	
			eM <sub>E</sub>	1	02	00	
			F	1	55	±	
208	Dec. 9	I	e <sub>N</sub>	4	55	15	
			e <sub>N</sub>	5	04	00	
			e <sub>E</sub>	5	32	25	
			e <sub>E</sub>	5	34	52	
			e <sub>E</sub>	5	44	10	
			eL <sub>E</sub>	6	01	00	
			F	6	30	±	
209	Dec. 9	I	e <sub>EN</sub>	12	01	00	
			F	12	15	±	
210	Dec. 9	I	e <sub>E</sub>	18	36	24	
			e <sub>E</sub>	18	38	54	
			eL <sub>EN</sub>	19	03	00	
			eM <sub>EN</sub>	19	08	00	
			F	19	55	±	
211	Dec. 9	I	eM <sub>EN</sub>	22	00	30	
			F	22	15	±	
212	Dec. 10	I	e <sub>E</sub>	5	55	00	
			F	6	10	±	



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213	Dec. 10	I	e <sub>E</sub>	15 55 00	
			eM <sub>E</sub>	16 05 00	
			F	16 30 ±	
214	Dec. 12	II	eS <sub>c</sub> P <sub>c</sub> S <sub>E</sub>	20 44 30	
			i <sub>EN</sub>	20 44 39	
			i <sub>E</sub>	20 45 24	
			e <sub>N</sub>	20 45 56	
			e <sub>N</sub>	20 55 00	
			c <sub>EN</sub>	21 05 00	
			eM <sub>E</sub>	21 17 00	
			F	23 20 ±	
215	Dec. 15	I	e <sub>EN</sub>	20 21 00	
			eM <sub>N</sub>	20 23 00	
			F	20 35 ±	
216	Dec. 16	I	e <sub>E</sub>	1 03 00	
			F	1 15 ±	
217	Dec. 17	I	e <sub>EN</sub>	4 54 00	
			eM <sub>E</sub>	5 01 00	
			F	5 20 ±	
218	Dec. 17	I	e <sub>EN</sub>	6 29 35	
			eM <sub>EN</sub>	6 30 00	
			F	6 40 ±	
219	Dec. 19	II	e <sub>EN</sub>	11 58 06	
			i <sub>EN</sub>	11 58 33	
			e <sub>E</sub>	11 59 24	
			iP <sub>S</sub> <sub>N</sub>	12 03 30	
			eSR <sub>1</sub> <sub>EN</sub>	12 15 00	
			eSR <sub>2</sub> <sub>E</sub>	12 19 45	
			eSR <sub>2</sub> <sub>N</sub>	12 19 50	
			eL <sub>N</sub>	12 28 00	
			eL <sub>E</sub>	12 28 30	
			iM <sub>E</sub>	12 37 00	
			iM <sub>2</sub> <sub>E</sub>	12 39 30	
			eM <sub>N</sub>	12 41 00	
			F	14 30 ±	

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
	December 25-26		No records		
220	Dec. 26	I	iP <sub>N</sub>	21 39 37	Epicenter 5°2 N. 101°3 W. Δ = 35°3
			e <sub>N</sub>	21 40 38	
			iPR <sub>1N</sub>	21 40 47	
			iS <sub>N</sub>	21 45 08	
			e <sub>N</sub>	21 46 46	
			F	22 30 ±	
	December 27- January 3, 1929,		No records.		