



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	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
4	Jan. 5	Iu	e <sub>P</sub> EN	21 55 28						Exact time correction could not be ascertained hence these times are uncertain.	
			i <sub>P</sub> N	21 55 29							
			i <sub>P</sub> c <sub>P</sub> E	21 55 35							
			i <sub>P</sub> c <sub>P</sub> N	21 55 37							
			i <sub>S</sub> EN	22 03 01							
			i <sub>E</sub> N	22 04 20							
			i <sub>E</sub>	22 06 20							
			F	22 29 <sup>±</sup>							
5	Jan. 6	IIu	e <sub>E</sub> (N)?	19 47 32						Reported from Lake Baringo, Africa. Time of phases only approximate.	
			i <sub>E</sub>	19 48 24							
			e <sub>E</sub> N	19 50 54							
			e <sub>E</sub> N	19 54 22							
			e <sub>E</sub>	19 55 54							
			e <sub>N</sub>	19 56 39							
			e <sub>E</sub> N	19 58 22							
			e <sub>N</sub>	19 58 52							
			e <sub>E</sub> N	20 03 27							
			e <sub>E</sub> N	20 04 59							
			e <sub>E</sub> N	20 08 29							
			e <sub>N</sub> (?)	20 12 38							
			e <sub>E</sub> N	20 14 03							
			e <sub>L</sub> E	20 18 12							
			e <sub>L</sub> N	20 18 22							
			L <sub>1</sub> EN	20 21 47							
			i <sub>M</sub> E	20 25 00							
			i <sub>M</sub> N	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>E</sub> N(?)	13 35 00							
			e <sub>L</sub> EN	13 52 30							
			e <sub>M</sub> E	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							
			iS <sub>N</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							
			iS <sub>N</sub>	13 39 16							
			iP <sub>S<sub>E</sub></sub>	13 39 26							
			iP <sub>S<sub>N</sub></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							
			iS <sub>N</sub>	4 19 47							
			iL	4 22 05							
			F	4 41 <sup>±</sup>							





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					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 <sup>±</sup>							
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 <sup>±</sup>							
13	Jan. 25	Ir	i <sub>PEN</sub>	21 11 56							
			i <sub>PR<sub>1</sub>EN</sub>	21 12 23							
			i <sub>SN</sub>	21 16 06							
			e <sub>SE</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 <sup>±</sup>							
14	Jan. 26	Iu	e <sub>N</sub>	22 33 18							
			e <sub>N</sub>	22 56 00							
			e <sub>MN</sub>	23 03 00							
			e <sub>ME</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 <sup>±</sup>							
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>ME</sub>	4 34 00							
			M <sub>N</sub>	4 43 00							
			M <sub>1E</sub>	4 43 48							
			F	5 24 <sup>±</sup>							

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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 eE eE eE eE eE eE eE eLN eLE eMEN M1EN F	00 25 28 00 36 59 00 42 53 00 48 41 00 55 41 00 58 34 01 00 50 01 05 38 01 05 41 01 07 13 01 19 41 01 34 41 02 42 <sup>±</sup>							
22	Feb. 7	Iu	iN eEN eN eE eLN F	18 07 18 18 16 30 18 21 22 18 21 24 18 25 35 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 eMEN M1E F	13 37 00 13 40 10 13 46 00 13 53 <sup>±</sup>							
24	Feb. 19	Ir	eE eN iN eMEN F	19 17 14 19 17 19 19 17 21 19 21 00 19 29 <sup>±</sup>							
25	Feb. 19	Iu	e(P) <sub>N</sub> iN e(S) <sub>N</sub> eL <sub>EN</sub> eM <sub>N</sub> F	21 17 00 21 19 00 21 24 00 21 31 00 21 35 00 21 45 <sup>±</sup>							
26	Feb. 21	IIu	iPE iPN PR1N eS <sub>EN</sub> iEN	19 58 10 19 58 11 20 00 03 20 05 15 20 05 26							Tentative epicenter: Arctic Ocean 68°4'N, 173°5'W. Δ = 52.5



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					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±								
27	Feb. 22	Iu	eE LE ME F	13 35 00 13 47 00 13 53 00 14 20±								
28	Feb. 24	Iu	ePE <sub>N</sub> iPR <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±								
29	Feb. 25	Ir	eE LE? ME F	1 15 13 1 18 00 1 20 00 1 27±								
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°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±								
32	Feb. 29	Ir	iN iEN iEN L F	22 46 19 22 46 26 22 46 32 22 46 59 22 57±								Superposed on the above. Reported from Montana

REPORT OF THE SEISMOGRAPHIC STATION

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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>S<sub>c</sub>P<sub>c</sub>P<sub>E</sub>N</sub>	18 28 39							
			i <sub>PR2</sub>	18 31 33							
			i <sub>S<sub>c</sub>P<sub>c</sub>S<sub>E</sub>N</sub>	18 32 09							
			i <sub>PR3EN</sub>	18 34 35							
			i <sub>S<sub>c</sub>P<sub>c</sub>P<sub>c</sub>S<sub>E</sub></sub>	18 34 54							
			i <sub>S<sub>c</sub>P<sub>c</sub>P<sub>c</sub>S<sub>N</sub></sub>	18 34 57							
			e <sub>EN</sub>	18 36 59							



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					e	n	z	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							
			iL <sub>E</sub>	19 11 27							
			iL <sub>N</sub>	19 13 41							
			iM <sub>N</sub>	19 23 48							
			iM <sub>E</sub>	19 24 55							
			F	21 55 <sup>±</sup>							
38	Mar. 13	Iu	eN ?	18 51 ?							Beginning obscured by change of record sheet.
			i <sub>EN</sub>	18 59 05							
			i <sub>EN</sub>	19 00 53							
			i <sub>EN</sub>	19 01 26							
			e <sub>EN</sub>	19 02 29							
			e <sub>N</sub>	19 06 32							
			e <sub>E</sub>	19 06 48							
			e <sub>EN</sub>	19 07 22							
			e <sub>N</sub>	19 09 38							
			e <sub>N</sub>	19 10 22							
			e <sub>E</sub>	19 11 39							
			e <sub>EN</sub>	19 18 12							
			eL <sub>E</sub>	19 24 12							
			eL <sub>N</sub>	19 25 00							
			eM <sub>N</sub>	19 27 12							
			eM <sub>E</sub>	19 27 39							
			F	20 55 <sup>±</sup>							
39	Mar. 16	IIIu	ePR <sub>1N</sub>	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	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
			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	iPE	21 15 27							
			iE	21 15 28							
			iE	21 15 31							
			iSEN	21 15 36							
			LEN	21 15 41							
			ME	21 15 55							
			MN	21 16 10							
			F	21 18 <sup>±</sup>							
41	Mar. 18	Iu	LEN	3 48 00							
			ME	3 56 58							
			MN	4 05 40							
			M <sub>1</sub> E	4 06 40							
			F	4 53 <sup>±</sup>							
42	Mar. 18		eLEN	12 54 00							
			MEN	12 56 55							
			M <sub>1</sub> EN	13 05 00							
			M <sub>2</sub> EN	13 11 00							
			F	13 37 <sup>±</sup>							
43	Mar. 22	IIIr	iPEN	4 22 08							Off Pacific Coast of Mexico. 14.5°N 95.8°W
			iP <sub>C</sub> PEN	4 25 00							
			iSEN	4 26 22							
			iSR <sub>1</sub> EN	4 27 29							
			LN ?	4 28 10							
			LE	4 28 57							
			MN	4 31 39							
			ME	4 32 08							
			F	8 33 <sup>±</sup>							

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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
44	Mar. 23	I ?	eEN	11 21 06							
			eEN	11 22 06							
			iN	11 24 18							
			iEN	11 24 26							
			F	11 27 <sup>±</sup>							
45	Mar. 23	Iu	ME	20 56 00							
			MN	20 57 00							
			F	21 23 <sup>±</sup>							
46	Mar. 26	Iu	eN ?	5 49 26							
			eEN	5 51 43							
			eN	6 07 27							
			eE	6 09 00							
			eLN	6 30 40							
			eLE	6 31 00							
			eMN	6 35 56							
			M1N	6 39 31							
			ME	6 40 00							
			F	6 56 <sup>±</sup>							
47	Mar. 27	Ir	iPN	5 14 34							
			iPR1N	5 14 59							
			iN	5 15 30							
			iN	5 16 25							
			eSE	5 18 32							
			iSN	5 18 37							
			SR1N	5 19 34							
			LE	5 21 40							
			MN	5 26 39							
			F	5 56 <sup>±</sup>							
48	Mar. 27	Iu	eLN	9 08 30							
			eLE	9 09 30							
			eMEN	9 12 45							
			F	9 29 <sup>±</sup>							
49	Mar. 28	Iu	eLEN	20 27 00							
			eME	20 29 00							
			eMN	20 33 00							
			M1E	20 36 00							
			M1N	20 48 00							
			F	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							
			iN	5 18 54							
			iN	5 20 31							
			iN	5 22 51							
			iN	5 22 56							
			iN	5 24 12							
			iN	5 25 04							
			eN	5 28 47							
			iN	5 28 48							
			eN	5 29 19							
			iN	5 29 42							
			iN	5 31 04							
			eN	5 31 38							
			eN	5 32 30							
			eN	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 <sup>+</sup> 27							
			F	2 22 <sup>-</sup>							
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 <sup>±</sup>							
54	April 7	Iu	eN?	20 36 15							
			eN	20 40 11							
			eN	20 45 00							
			eLN?	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 <sup>±</sup>							
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 <sup>±</sup>							

BULLETIN OF THE SEISMOGRAPHIC STATION  
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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 48 41							
			e <sub>SEN</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>PEN</sub>	23 21 24							In Pacific Ocean, south of Mexico A = 25°9
			i <sub>PR<sub>1</sub>N</sub>	23 21 59							
			i <sub>SEN</sub>	23 25 48							
			i <sub>SR<sub>2</sub>N</sub>	23 27 19							
			i <sub>LEN</sub>	23 28 31							
			i <sub>ME</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							
			iLEN	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> F	4 00 29 4 49±							
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							
			i <sub>E</sub>	19 45 17							
			PS <sub>N</sub>	19 45 34							
			i <sub>E</sub>	19 45 39							
			i <sub>EN</sub>	19 45 59							
			SR <sub>1EN</sub>	19 50 40							
			i <sub>EN</sub>	19 56 05							
			L <sub>EN</sub>	19 57 12							
			M <sub>EN</sub> F	20 05 00 22 56±							
67	April 22	I?	e <sub>EN</sub>	5 14 44							
			i <sub>N</sub>	5 16 43							
			i <sub>E</sub>	5 16 45							
			i <sub>N</sub>	5 16 58							
			i <sub>N</sub>	5 18 15							
			L <sub>N</sub>	5 34 00							
			M <sub>EN</sub> F	5 40 00 5 43±							
68	April 22	Iu	eP <sub>E</sub> ?	20 26 13							Destructive in Greece
			i <sub>E</sub>	20 26 39							
			eS <sub>E</sub>	20 36 25							
			iS <sub>E</sub>	20 36 29							
			e <sub>E</sub>	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> F	21 01 00 22 05±							

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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±										
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±							
73	Apr. 25	Iu	LN	10 08 01							
			MN	10 12 00							
			F	10 24±							



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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							
			e <sub>M<sub>N</sub></sub>	16 35 21							
			F	16 47±							
75	April 26	Ir	i <sub>P<sub>N</sub></sub>	19 42 44							
			e <sub>P<sub>E</sub></sub>	19 42 46							
			e <sub>E</sub>	19 46 47							
			i <sub>S<sub>N</sub></sub>	19 46 58							
			i <sub>E</sub>	19 47 09							
			F	20 20±							
76	April 27	Ir	i <sub>P<sub>N</sub></sub>	00 12 17							
			e <sub>S<sub>N</sub></sub>	00 16 43							
			i <sub>S<sub>N</sub></sub>	00 16 45							
			i <sub>S<sub>E</sub></sub>	00 16 47							
			e <sub>E<sub>N</sub></sub>	00 18 29							
			e <sub>M<sub>N</sub></sub>	00 21 38							
			F	00 53±							
77	April 27	IIu	i <sub>P<sub>N</sub></sub>	20 44 59							
			e <sub>P<sub>E</sub></sub>	20 44 30							
			i <sub>P<sub>R1</sub><sub>N</sub></sub>	20 46 45							
			i <sub>P<sub>R2</sub><sub>N</sub></sub>	20 47 44							
			i <sub>S<sub>E<sub>N</sub></sub></sub>	20 52 06							
			i <sub>P<sub>S<sub>E<sub>N</sub></sub></sub></sub>	20 52 16							
			i <sub>E</sub>	20 54 17							
			S <sub>R1</sub> <sub>E<sub>N</sub></sub>	20 56 07							
			L <sub>E<sub>N</sub></sub> ?	21 00 36							
			M <sub>N</sub>	21 06 45							
			M <sub>E</sub>	21 06 51							
			M <sub>1</sub> <sub>N</sub>	21 11 02							
			F	22 54±							

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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 F	00 57 09 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 F	19 20 30 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>							



F THE SEISMOGRAPHIC STATION  
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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
84	May 2	Iu	ePEN	22 06 57						Epicenter in Asia Minor - opposite Constantinople.	
			iSEN	22 17 27							
			PSN	22 18 35							
			SRIN	22 23 04							
			eN	22 23 48							
			LEN	22 31 27							
			MEN	22 38 27							
			M1N	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							
			eMN	20 41 38							
			eME	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>							



STATION OF THE SEISMOGRAPHIC STATION  
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No.	Date	Char.	Phase	G.M. Time			Period			Amplitude			Remarks
				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>									Gap in records shortly after M		
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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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>	
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							
			M <sub>1</sub> EN	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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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>	
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 ?	eN	13 59 05							
			LEN	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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No.	Date	Char.	Phase	G.M. Time			Period e n z	Amplitude			Remarks
				h.	m.	s.		AE	AN	AZ	
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 <sup>±</sup>							
106	May 27	IIu	ePN	10	03	14					In the Tuscarora Deep -- off the coast of Japan $\Delta = 86.3$
			ePE	10	03	17					
			ePR <sub>2</sub> N	10	08	44					
			ePR <sub>3</sub> N	10	10	13					
			iScP <sub>3</sub> EN	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 <sup>±</sup>							
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 <sup>±</sup>							
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					

LOGBOOK OF THE SEISMOGRAPHIC STATION  
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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>	
	May 28 Cont'd		MN M <sub>1</sub> E M <sub>1</sub> N F	16 30 00 16 34 36 16 37 00 17 16 <sup>±</sup>							
109	May 30	Iu	eE eEN eN eLE ME F	6 49 00 6 57 00 7 03 30 7 05 00 7 12 00 7 34 <sup>±</sup>							
110	May 31	Iu	eN? eSEN eEN eEN MN F	7 38 50 7 49 18 7 55 23 8 15 00 8 27 00 8 43 <sup>±</sup>							
111	May 31	Iu	eEN eN e <sub>EN</sub> MN F	14 18 04 14 33 00 14 49 23 14 59 00 15 12 <sup>±</sup>							
112	May 31	Iu	eN e <sub>EN</sub> LN ME F	21 35 00 21 43 00 21 55 00 22 01 00 22 31 <sup>±</sup>							
113	May 31	Iu	e <sub>EN</sub> eE eN e <sub>EN</sub> e <sub>EN</sub> L M F	23 49 00 23 56 00 24 06 00 24 10 21 24 25 10 24 42 00 24 56 00 25 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							
			MEN	13 13 00							
			F	Covered by following							
116	June 1	Iu	ePEN	13 25 07							Tuscarora Deep
			ScPcSN	13 35 32							
			ScPcSE	13 35 35							
			SN	13 35 47							
			SE	13 35 51							
			SR <sub>1</sub> EN	13 41 41							
			SR <sub>2</sub> EN	13 45 57							
			ME	13 53 00							
			MN	13 54 00							
			F	15 37 <sup>±</sup>							
117	June 3	Iu	eE	3 28 50							
			eN	3 29 00							
			LE	3 48 00							
			F	4 19 <sup>±</sup>							
118	June 3	I?	eEN	6 46 58							
			iE	6 55 39							
			LN	6 57 10							
			F	7 08 <sup>±</sup>							
119	June 3	Iu	eEN	8 48 44							
			eE	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							





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

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	LEN	23 01 28							Iu	
		MEN	23 05 39								
		F	23 16±								
121	June 4	eEN	2 24 00							I?	
		F	2 44±								
122	June 5	eME	6 51 00							I?	
		eMN	6 57 00								
		F	7 07±								
123	June 6	eEN	16 57 00							I?	
		F	17 03±								
124	June 6	eN	19 47 00							Iu	
		eEN	19 55 00								
		eMEN	19 58 00								
		F	20 34±								
125	June 7	eME	3 26 00							Iu	
		F	3 34±								
126	June 8	eE?	6 04 59							Ir	
		eE?	6 09 26								
		iE	6 11 33								
		iME	6 12 00								
		F	6 29±								
127	June 8	ePE(N)	14 53 20							Iu	
		eSE	15 02 54								
		PSE	15 03 36								
		LN	15 18 00								
		MN	15 22 30								
		LE	15 23 00								
		ME	15 26 00								
		F	17 41±								
128	June 8	ePE	2 45 42							Ir	
		eSE	2 49 10								
		eSN	2 49 12								
		LN	2 51 14								
		MN	2 53 24								
		F	3 21±								

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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 $\Delta = 124.8$
			iPR <sub>1</sub> E	6	33	01							
			ePR <sub>2</sub> E	6	35	28							
			ePR <sub>3</sub> E	6	38	25							
			eS <sub>0</sub> P <sub>0</sub> C <sub>0</sub> P <sub>0</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. Acap- ulco Deep $\Delta =$ 24.5	
			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 $\Delta = 24.8$	
			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	$\Delta_E$	$\Delta_N$	$\Delta_Z$	
135	June 21	Iu	i <sub>SN</sub>	11 05 32							Fiji Islands
			i <sub>PSN</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	e <sub>PN</sub>	16 34 59							Acapulco Deep off coast of Mexico. $\Delta = 24.5$
			i <sub>N</sub>	16 35 05							
			i <sub>PR<sub>1</sub>N</sub>	16 36 28							
			i <sub>SEN</sub>	16 41 23							
			i <sub>SR<sub>1</sub>N</sub>	16 44 04							
			e <sub>SR<sub>2</sub>E</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							
			e <sub>L<sub>EN</sub></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	eE?	7 28 40							
			eEN	7 30 28							
			eE	7 32 13							
			e(S)EN	7 39 25							
			eE(N)	7 40 49							
			eE	7 55 13							
			F	8 22 <sup>±</sup>							
141	June 27	Ir	eEN	1 56 08							
			iSN	2 00 37							
			eLEN	2 06 08							
			F	2 27 <sup>±</sup>							
142	June 29	Iv	eE	22 45 23							
			iE	22 45 27							
			iE	22 45 31							
			F	22 50 <sup>±</sup>							
143	June 29	IIu	ePE	23 03 52							
			eE	23 04 52							
			iPR <sub>1</sub> E	23 08 15							
			eE	23 10 15							
			PR <sub>3</sub> E	23 13 00							
			iS <sub>c</sub> P <sub>c</sub> S <sub>E</sub>	23 14 32							
			iPSE	23 17 24							
			P <sub>c</sub> S <sub>c</sub> S <sub>c</sub> P <sub>E</sub>	23 18 43							
			eSPSE?	23 22 47							
			iSR <sub>1</sub> E	23 23 07							
			iE	23 26 48							
			eLE	23 38 34							
			eM <sub>E</sub>	23 47 33							
			W <sub>2</sub>	25 03 00							
F	26 13 <sup>±</sup>										
144	June 30	I?	iE	9 53 25							
			iE	9 53 29							
			eE	9 54 07							
			F	9 59 <sup>±</sup>							

**STATION OF THE SEISMOGRAPHIC STATION**  
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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)E eL <sub>E</sub> F	22 45 39 22 48 21 22 53 <sup>±</sup>							
146	July 1	Iu	e <sub>N</sub> e <sub>N</sub> e <sub>N</sub> e <sub>N</sub> e <sub>N</sub> L <sub>EN</sub> M <sub>N</sub> F	9 23 34 9 29 18 9 30 05 9 31 18 9 33 14 9 34 14 9 42 42 10 38 <sup>±</sup>							
147	July 3	Iv	i <sub>N</sub> i <sub>E</sub> i <sub>N</sub> i <sub>N</sub> F	22 35 13 22 35 14 22 35 18 22 35 24 22 35 25							
148	July 6	Ir	e <sub>PN</sub> i <sub>N</sub> e <sub>SN</sub> e <sub>SE</sub> SR <sub>1N</sub> F	00 59 05 1 00 57 1 03 02 1 03 06 1 03 59 1 34 <sup>±</sup>							
149	July 7	Ir	i <sub>PN</sub> i <sub>N</sub> e <sub>PR<sub>1N</sub></sub> i <sub>N</sub> e <sub>N</sub> i <sub>SN</sub> e <sub>N</sub> L <sub>N</sub> e <sub>M<sub>N</sub></sub> F	3 39 04 3 39 13 3 39 34 3 39 47 3 40 40 3 43 18 3 43 59 3 47 13 3 49 29 4 26 <sup>±</sup>							

BULLETIN OF THE SEISMOGRAPHIC STATION  
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No.	Date	Char.	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>	
150	July 8	Iu	eN	6	23	24							
			iE	6	23	39							
			eEN	6	29	13							
			LE	6	42	13							
			LN	6	46	01							
			ME	6	48	13							
			M <sub>N</sub> F	6 7	53 05	00 -							
151	July 8	Ir	eP <sub>E</sub>	12	01	16							
			eS <sub>E</sub> ?	12	05	26							
			iS <sub>E</sub>	12	05	32							
			iE	12	05	42							
			eLE	12	12	03							
			F	12	42	-							
152	July 9	Iu	eE	21	41	54							
			i	21	42	54							
			e	21	43	39							
			i	21	50	04							
			i	21	52	28							
			i	21	53	42							
			i 215	21	57	54							
			L	22	14	18							
			M W <sub>2</sub> F	22 23 24	18 27 20	00 00 ±							
153	July 10	Ir	iP <sub>EN</sub>	2	08	04							
			iE	2	08	13							
			i	2	08	37							
			iS <sub>N</sub>	2	12	19							
			iS <sub>E</sub>	2	12	20							
			iE	2	14	06							
			LEN	2	16	13							
			iE? F	2 3	19 25	24 ±							
154	July 10	Ir	iP <sub>EN</sub>	10	28	07							
			iS <sub>N</sub>	10	32	27							
			iS <sub>E</sub>	10	32	34							
			F	10	56	±							
155	July 10	Ir	eP <sub>N</sub>	11	12	05							
			eS <sub>N</sub>	11	16	26							
			F	11	32	±							





REPORT OF THE SEISMOGRAPHIC STATION  
 OF THE  
 SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.  
 FOR THE YEAR 1928

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	eEN	3 17 05							
			eE	3 19 26							
			eN	3 23 45							
			eE	3 24 00							
			eN	3 25 19							
			eE (L)	3 35 12							
			ME	3 41 00							
			M <sub>1</sub> EN F	3 57 23 4 55 <sup>±</sup>							
157	July 13	Iu	eEN	9 47 42							
			eEN	9 53 24							
			eE	9 55 07							
			eEN	9 57 00							
			eE	10 02 50							
			eN	10 06 00							
			eE	10 07 00							
			LN	10 21 00							
			LE	10 22 00							
			MN	10 31 00							
			ME F	10 35 00 11 05 <sup>±</sup>							
			158	July 15	Iu	eEN ?	9 55 00				
eLN	10 13 00										
eMN	10 21 00										
F	10 41 <sup>±</sup>										
159	July 17	I?	eN	16 15 00							
			eN	16 20 00							
			eN	16 24 00							
			eN	16 32 52							
			eN	16 42 00							
			F	16 50 <sup>±</sup>							
160	July 18	IIr	iPEN	19 13 19							Northern Peru Δ = 45.4
			iPR <sub>1</sub> N	19 14 40							
			iPR <sub>2</sub> N	19 15 09							
			iSE	19 19 58							
			iSN	19 19 59							
			iPSN	19 20 12							
			iSR <sub>1</sub> E	19 23 23							
			iSR <sub>1</sub> N	19 23 26							

BULLETIN OF THE SEISMOGRAPHIC STATION  
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 FOR THE YEAR 1928.

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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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
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 F	8 47 50 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	ePN	18 54 29							
			eSN	18 58 54							
			eLN	19 01 24							
			iMN	19 02 30							
			F	19 45 <sup>±</sup>							
171	July 28	Iu	iPEN	20 01 36							
			iSEN	20 10 51							
			iE	20 11 13							
			eMEN	20 32 28							
			F	20 42 <sup>±</sup>							
172	July 30	Iu	eE?	2 26 46							
			eE	2 37 00							
			eE	2 44 00							
			eE?	2 53 30							
			eE	2 58 10							
			eE	3 03 10							
			ME F	3 10 10 3 58 <sup>±</sup>							





BULLETIN OF THE SEISMOGRAPHIC STATION  
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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	eP <sub>N</sub> eS <sub>E</sub> eL <sub>N</sub> eM <sub>N</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> eM <sub>N</sub> F	5 45 03 5 47 16 5 51 ±	
175	Sept. 5	I	e <sub>N</sub> eM <sub>N</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	eE <sub>N</sub> eE <sub>N</sub> iS <sub>N</sub> iS <sub>E</sub> ePS <sub>EN</sub> e <sub>N</sub> eL <sub>E</sub> eM <sub>EN</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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No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
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	eE <sub>N</sub> eM <sub>N</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> eM <sub>E</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: $25^{\circ}9N.106^{\circ}W.$ $\Delta = 18^{\circ}$
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	eEN	12 37 00	
			eEN	12 55 00	
			eEN	12 56 25	
			eE	13 03 00	
			eEN	13 24 00	
			eN	13 27 00	
			eLE	13 30 00	
			eME	13 40 25	
			F	14 30 ±	
188	Nov. 11	I	eEN	23 17 00	
			eN	23 24 50	
			eE	23 29 00	
			eLE	23 57 00	
			eME	0 05 30	
			F	1 00 ±	
189	Nov. 15	I	ePE	13 28 08	Aleutian Islands Δ = 55.6
			iSE	13 35 52	
			eLEN	13 49 00	
			eME	13 53 00	
			F	14 30 ±	
190	Nov. 27	I	No records November 16th to 26th		Distance 23.4
			iPN	3 40 21	
			iPE	3 40 22	
			eSN	3 44 25	
			F	3 50 ±	
191	Nov. 27	I	eEN	9 32 34	
			eEN	9 35 34	
			eLEN	9 40 04	
			eMN	9 44 24	
			F	10 20 ±	
192	Nov. 28	I	iPEN	1 28 23	Pacific Coast of Mexico Δ = 24.7
			iSEN	1 32 38	
			eLEN	1 36 07	
			eMEN	1 38 07	
			F	2 30 ±	



**TIM OF THE SEISMOGRAPHIC STATION**  
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No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
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	



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



**LOG-BOOK OF THE SEISMOGRAPHIC STATION**  
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**FOR THE YEAR 1928**

No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
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	
			e <sub>EN</sub>	21 05 00	
			eM <sub>E</sub>	21 17 00	
			F	23 20 ±	
			215	Dec. 15	I
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	
			iPS <sub>N</sub>	12 03 30	
			eSR <sub>1</sub> EN	12 15 00	
			eSR <sub>2</sub> E	12 19 45	
			eSR <sub>2</sub> N	12 19 50	
			eLN	12 23 00	
			eL <sub>E</sub>	12 23 30	
			iM <sub>E</sub>	12 37 00	
			iM <sub>2</sub> E	12 39 30	
			eMN	12 41 00	
			F	14 30 ±	

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Remarks
220	December 25-26		No records		
	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.		