

BULLETIN OF THE SEISMOGRAPHIC STATION  
OF THE  
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.  
FOR THE YEAR 1927.

No.	Date	Char.	Phase	G.M. Time			Period s.	Amplitude		Remarks
				h.	m.	s.		A <sub>E</sub>	A <sub>N</sub>	
1	Jan. 1	Ir	e <sub>N</sub> <sup>?</sup>	8	27	12	15	+14	+16	Reported destruc-
			e <sub>N</sub>	8	28	19				
			i <sub>N</sub>	8	28	25				
			i <sub>L</sub> <sub>N</sub>	8	28	44				
			e <sub>M</sub> <sub>N</sub>	8	31	00				
			F	8	40 <sup>±</sup>	5				
2	Jan. 1	Ir	e <sub>N</sub> <sup>?</sup>	9	23	54	17	+28	+18	Reported also des-
			e <sub>N</sub>	9	25	04				
			i <sub>N</sub>	9	25	12				
			i <sub>L</sub> <sub>N</sub>	9	25	44				
			e <sub>M</sub> <sub>N</sub>	9	27	17				
			F	9	36 <sup>±</sup>	7				
3	Jan. 24	Iu	e <sub>N</sub>	1	23	50	38	-51	+27	The epicenter as
			e <sub>N</sub>	1	26	56				
			e <sub>N</sub>	1	27	31				
			e <sub>N</sub>	1	34	28				
			e <sub>L</sub> <sub>N</sub>	1	51	00				
			e <sub>M</sub> <sub>N</sub>	2	02	00				
			M <sub>1</sub> <sub>N</sub>	2	04	25				
			F	2	54 <sup>±</sup>	20				
Constants										
Determined	Component	Period T <sub>0</sub>	V	Damping	$\frac{r}{T_0^2}$					
February 3	E-W	5.9	75	6.2	0.0072					
	N-S	6.7	64	6.9 7.9 8.0	0.0047					

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-2-

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4	Feb. 16	Iu	eP <sub>N</sub> ?	1 47 13			Kurile Islands $\Delta=76^\circ=8440$ Km The time marking device was not working in the beginning and the sheet was changed during the earthquake so that part of the record was lost.
			eS <sub>EN</sub>	1 57 10			
			PS <sub>EN</sub>	1 57 46			
			EL <sub>eN</sub>	2 00 00			
			F	2 48 $\pm$			
5	Feb. 28	Iu	iP <sub>N</sub>	14 19 02			Presumably Atacama Desert, Chili $\Delta=67^\circ 6'=7516$ Km
			iS <sub>N</sub>	14 28 05			
			PS <sub>N</sub>	14 28 32			
			eM <sub>N</sub>	14 43 00			
			F	15 16 $\pm$			

Constants

Determined	Component	Period $T_0$	V	Damping	$\frac{r}{T_0^2}$
March 3	E-W	6.2	77	6.7	0.0054
	N-S	6.2	72	6.2	0.0057

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				h.	m.	s.	e. n. z.			AE	μ	AN	
6	March 7	Iu	eS <sub>N</sub>	9	52	17							Near Tungo Peninsula, north central coast of Japan.
			ePS <sub>N</sub>	9	53	26							
			ePPS <sub>N</sub>	9	54	17							
			eSR <sub>1</sub> EN	9	58	58							
			eL <sub>EN</sub>	10	11	22							
			eM <sub>EN</sub>	10	18	25							
			M <sub>1</sub> EN	10	23	31	16	16		-24		-26	
			M <sub>2</sub> E	10	31	33	13			-31			
			M <sub>2</sub> N	10	31	35		16				+44	
F	11	16	<sup>±</sup>										
7	March 9	Ir	eN <sup>?</sup>	16	19	38						Apparently off coast of northern California. -Record very faint.	
			e(S) <sub>EN</sub>	16	24	27							
			L <sub>E</sub>	16	28	00							
			F	16	41	<sup>±</sup>							
8	March 25		e <sub>EN</sub>	13	10	21						Amplitudes very small.	
			e <sub>E</sub>	13	13	20							
			L	13	22	00							
			F	13	24	<sup>±</sup>							
9	April 1	Iu	eE <sup>?</sup>	19	19	38						Very faint	
			e <sub>E</sub>	19	29	18							
			e <sub>E</sub>	19	30	22							
			L <sub>N</sub>	19	44	00							
			M <sub>N</sub>	19	55	00							
			F	20	14	<sup>±</sup>							

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					e.	n.	z.	A <sub>E</sub>	μ	A <sub>N</sub>	
10	Apr. 14	Iu	iP <sub>E</sub>	6 34 42							According to La Paz, the epicenter was near Mt. Aconcagua between Santiago and Mendoza.
			iP <sub>c</sub> P <sub>E</sub>	6 35 20							
			ePR <sub>1</sub> E	6 38 23							
			ePR <sub>2</sub> E	6 39 44							
			ePR <sub>3</sub> E	6 41 06							
			iS <sub>E</sub>	6 44 01							
			iS <sub>c</sub> S <sub>EN</sub>	6 45 01	11		-112				
			eE	6 45 42							
			SR <sub>1</sub> E	6 49 08							
			SR <sub>2</sub> E	6 53 01							
			eL <sub>E</sub>	6 53 20							
			L <sub>1</sub> E	6 53 46	16		-26				
			F	7 29 <sup>±</sup>							
11	Apr. 16	Iu	eP <sub>N</sub>	6 25 30						Time marker was working. Arrival times are only approximate	
			eS <sub>EN</sub>	6 33 40							
			eL <sub>E</sub>	6 43 20							
			eM <sub>E</sub>	6 50 00							
			F	7 18 <sup>±</sup>							

Constants

Determined	Component	Period T <sub>0</sub>	V	Damping	$\frac{r}{T_0^2}$
April 22	E-W	6.1	72	6.2	0.0037
	N-S	6.1	80	6.2 6.3 6.7	0.0035

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				h.	m.	s.	e.	n.	z.	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
12	May 7	Iv	ePN	8	31	10							Felt in south-eastern Mo, in western Tennessee and Ky. and in northeastern Arkansas.
			iPN	8	31	13							
			iEN	8	31	42							
			iEN	8	31	53							
			iEN	8	32	01							
			F	8	36 <sup>±</sup>								
13	May 9	I	iN	20	10	58							
			iN	20	11	10							
			iN	20	11	33							
			eN	20	12	07							
			eN	20	12	37							
			eN	20	13	17							
			iN	20	15	18							
			eN	20	15	37							
			iEN	20	15	39	3			+7			
			F	20	32 <sup>±</sup>								
14	May 22	IIu	ePN	22	46	49							Destructive in the province of Kansu, China. $\Delta = 103^\circ$
			eP <sub>N</sub>	22	50	48							
			ePR <sub>1N</sub>	22	51	17							
			ePR <sub>2N</sub>	22	53	25							
			ePR <sub>2E</sub>	22	53	59							
			iN	22	55	00							
			iPR <sub>3</sub>	22	55	18							
			iScPcSN	22	57	32							
			eScPcSE	22	57	33							
			eScPcPcSE	22	58	41							
			ePS <sub>N</sub>	23	00	06							
			ePPS <sub>N</sub>	23	01	21							
			ePPS <sub>E</sub>	23	01	29							
			eSR <sub>1N</sub>	23	05	38							
			iSR <sub>2NE</sub>	23	10	00							
			SR <sub>3N</sub>	23	13	27							
			eLE	23	18	00	60			-140			
			iM <sub>EN</sub>	23	29	00	21	21		-17	-5		
M <sub>1EN</sub>	23	29	52	21	23		-38	-19					
F	24	45 <sup>+</sup>											

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FOR THE YEAR 1927

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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
17	Aug. 5	Iu	e <sub>N</sub> e <sub>N</sub> e <sub>SEN</sub> e <sub>LEN</sub> F	21 30 42 21 30 48 21 36 43 21 52 00 22 24 <sup>±</sup>							Epicenter: Japan. Placed by the U.S. Coast and Geod- etic Survey at 41°N, 141°E.
18	Aug. 6	Iu	e <sub>SEN</sub> e <sub>LN</sub> F	00 29 24 00 35 30 00 54 <sup>±</sup>							Epicenter ac- cording to U.S. C. and G.S., 57°N, 159°W.
19	Aug. 10	Ir	i <sub>P<sub>EN</sub></sub> e <sub>PR<sub>1N</sub></sub> (?) e <sub>PR<sub>2N</sub></sub> e <sub>SEN</sub> e <sub>EN</sub> e <sub>N</sub> e <sub>LEN</sub> (?) F	01 42 01 01 43 03 01 43 14 01 47 09 01 48 25 01 49 05 01 49 21 02 28 <sup>±</sup>							$\Delta_{g-p}=32^{\circ}=3560$ km Epicenter in Pacific Ocean south of Panama (according to U.S.C. and G.S., 5°N, 83°W.)
20	Aug. 10	Iu	e <sub>LE</sub> e <sub>LN</sub> M <sub>E</sub> M <sub>N</sub> F	12 35 00 12 36 00 12 45 00 12 46 00 13 13 <sup>±</sup>							Epicenter near Island of Ceram (according to U.S.C. and G.S. 4°S, 130°E.)
21	Aug. 18	Iu	e <sub>E</sub> e <sub>L</sub> M F	19 52 20 20 10 00 20 19 00 20 48 <sup>±</sup>							
22	Aug. 20 --21	Ir	e <sub>PN</sub> e <sub>PE</sub> e <sub>N</sub> e <sub>EN</sub> e <sub>SEN</sub> i <sub>LN</sub> i <sub>LE</sub> F	00 01 15 00 01 25 00 02 29 00 04 58 00 06 42 00 09 56 00 09 57 00 37 <sup>±</sup>							Epicenter in Pacific south of Panama.

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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
23	Sept. 11	Iu	eP <sub>E</sub> ?	22 28 33						Destructive in the Crimea	
			eP <sub>N</sub> ?	22 28 38							
			ePR <sub>2N</sub>	22 33 35							
			eS <sub>N</sub>	22 38 23							
			eS <sub>E</sub>	22 38 33							
			eSR <sub>2N</sub>	22 48 40							
			eLN	22 54 00							
			eM	23 02 00							
		F	23 21 <sup>±</sup>								
24	Sept. 18	Ir	eP <sub>N</sub>	02 12 10						Reported felt on both sides of the south- ern Sierra Nevada Mts. in California and Nevada, U.S.A.	
			eP <sub>E</sub>	02 12 11							
			eS <sub>N</sub> ?	02 16 46							
			eL <sub>E</sub>	02 19 48							
			eL <sub>N</sub>	02 19 52							
			F	02 38 <sup>±</sup>							

Constants

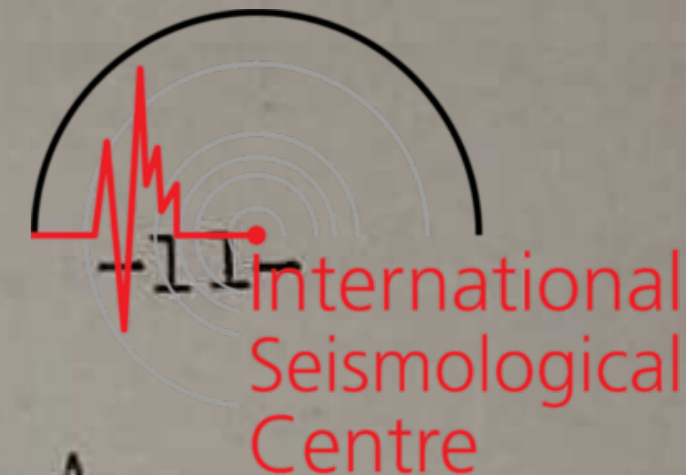
Determined	Component	Period T <sub>0</sub>	V	Damping	$\frac{r}{T_0^2}$
August 31	E-W	6.1	80	6.3	0.0034
	N-S	6.1	83	6.7 11 8	0.0034

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					e	n	z	AE	Ag	
25	Oct. 24	IIIr	iP <sub>N</sub>	16 06 51						Southeastern Alaska $\Delta_{S-P} = 38.8 =$ 3980 Km.
			iPR <sub>1N</sub>	16 07 59						
			iP <sub>c</sub> P	16 09 10						
			iSE <sub>N</sub>	16 12 26	19	17		+12	-19	
			iSR <sub>1N</sub>	16 15 03						
			eL <sub>EN</sub>	16 16 36	41	41		-200	+400	
			eM <sub>EN</sub>	16 18 42	21	21		+1620	+1370	
			M <sub>1EN</sub>	16 19 21	14	14		+3000	+1920	
			M <sub>2EN</sub>	16 20 08	9	9		-710	-720	
			iM <sub>EN</sub>	16 21 42	14	14		-840	+540	
		F	20 09 <sup>±</sup>							
26	Oct. 25	Iv	iP <sub>E</sub>	18 23 18						$\Delta = 223$ Km.
			iSE	18 23 46						
			i <sub>E</sub>	18 23 53						
			i <sub>E</sub>	18 23 58						
			F	18 36 <sup>±</sup>						
27	Oct. 27	I?	eL <sub>E</sub>	8 28 30						
			F	8 39 30						



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					o.	n	A <sub>E</sub>	A <sub>N</sub>	
28	Nov. 4	Iir	iP <sub>EN</sub>	13 56 25	7		-17		Epicenter off the coast of Calif. $\Delta_{S-P} = 25^{\circ}9$
			iPR <sub>1E</sub>	13 56 48					
			iPR <sub>2E</sub>	13 57 00					
			e <sub>EN</sub>	14 00 33					
			e <sub>SE</sub>	14 00 49					
			i <sub>SE</sub>	14 01 00	14	13	+138	-42	
			iSR <sub>1EN</sub>	14 01 32					
			iL <sub>E?</sub>	14 02 22					
			iM <sub>EN</sub>	14 04 06	7	10	+11	-90	
			M <sub>E1</sub>	14 06 10	7		+114		
			M <sub>N1</sub>	14 04 40		7		-290	
			F	15 53 <sup>±</sup>					
29	Nov. 6	Ir	iP <sub>E</sub>	2 45 26					Off California coast. Apparently an after-shock of earthquake of November 4th. $\Delta_{S-P} = 26^{\circ}4$
			i <sub>SE</sub>	2 49 54					
			iL <sub>EN</sub>	2 53 00					
			iM <sub>EN</sub>	2 55 20					
			F	3 26 <sup>±</sup>					
30	Nov. 8	Iu	eP <sub>E</sub> '	3 30 34					$\Delta = 150^{\circ}$
			<u>S<sub>c</sub>P<sub>c</sub>P<sub>E</sub></u>	3 34 08					
			<u>P<sub>S</sub><sub>c</sub>P<sub>c</sub>S<sub>E</sub></u>	3 44 15					
			<u>S<sub>c</sub>P<sub>c</sub>P<sub>c</sub>S<sub>E</sub>'</u>	3 45 15					
			eL <sub>E</sub>	4 22 00					
			iM <sub>EN</sub>	4 26 00					
			F	5 30 <sup>±</sup>					
31	Nov. 12	Iv	c <sub>N</sub>	22 14 00					
			i <sub>E</sub>	22 14 09					
			e <sub>N</sub>	22 14 17					
			i <sub>E</sub>	22 14 24					
			i <sub>E</sub>	22 14 48					
			iM <sub>E</sub>	22 15 18					
			iM <sub>N</sub>	22 15 21					
			M <sub>1N</sub>	22 15 34					
			F	22 42 <sup>±</sup>					

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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
32	Nov. 14	Iu	eP <sub>EN</sub>	0 23 10							$\Delta_{S-P} = 66^{\circ}.3$ Epicenter in north- ern Siberia, about $71^{\circ}.6$ N and $130^{\circ}$ E
			eS <sub>EN</sub>	0 32 04							
			i <sub>E</sub>	0 32 18							
			iPS <sub>N</sub>	0 32 25							
			iPPPS <sub>E</sub>	0 32 40							
			i <sub>E</sub>	0 3 04							
			i <sub>E</sub>	0 37 52							
			iSR <sub>2E</sub>	0 39 41							
			iL <sub>E</sub>	0 43 04							
			iM <sub>E</sub>	0 48 00							
			F	1 40 $\pm$							
33	Nov. 14	Iu?	e <sub>N</sub> ?	5 07 45							
			i <sub>EN</sub>	5 16 25							
			i <sub>E</sub>	5 18 36							
			iL	5 23 55							
			iM	5 28 09							
34	Nov. 14	Iu	iP <sub>N</sub>	7 30 46							$\Delta_{S-P} = 69^{\circ}.3$ Reported felt in Chile from Copiapo to Santiago
			eP <sub>E</sub>	7 30 47							
			i <sub>N</sub>	7 31 00							
			iP <sub>o</sub> P <sub>N</sub>	7 31 28							
			i <sub>N</sub>	7 31 58							
			iPR <sub>2N</sub>	7 35 11							
			iS <sub>E</sub>	7 40 00							
			eS <sub>N</sub>	7 40 02							
			iPS <sub>E</sub>	7 40 23							
			i <sub>E</sub>	7 40 44							
			eL <sub>E</sub>	7 48 00							
						F	8 37 $\pm$				

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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
35	Nov. 15	Iu	iP <sub>E</sub>	8 39 31							$\Delta_{S-p} = 57^{\circ}.5$
			eP <sub>N</sub>	8 39 32							
			ePR <sub>1N</sub>	8 42 11							
			iPR <sub>3E</sub>	8 43 40							
			eS <sub>E</sub>	8 47 27							
			eS <sub>N</sub>	8 47 30							
			iPS <sub>N</sub>	8 47 39							
			i <sub>E</sub>	8 48 10							
			i <sub>N</sub>	8 48 14							
			iSR <sub>1E</sub>	8 51 55							
			iSR <sub>2E</sub>	8 53 51							
			iSR <sub>2N</sub>	8 53 55							
			eSR <sub>3EN</sub>	8 54 56							
			eP <sub>C</sub> SS <sub>C</sub> P <sub>E</sub>	8 55 30							
			eL <sub>E</sub>	8 57 56							
			eM <sub>E</sub>	9 01 57							
F	9 50 <sup>±</sup>										
36	Nov. 16	Iu	eP <sub>E</sub>	21 25 00							$\Delta_{meas} = 138^{\circ}.3$ Epicenter according to U.S. C. and G. Survey = 2° S, 113° E
			iS <sub>C</sub> P <sub>C</sub> P <sub>E</sub>	21 31 03							
			iS <sub>C</sub> P <sub>C</sub> S <sub>E</sub>	21 34 49							
			iPR <sub>4E</sub>	21 37 42							
			iPS <sub>C</sub> P <sub>C</sub> S <sub>E</sub>	21 40 24							
			ePPS <sub>E</sub>	21 42 16							
			ePR <sub>3E</sub>	21 46 33							
			i <sub>E</sub>	21 47 35							
			iSR <sub>1E</sub>	21 48 45							
			i <sub>E</sub>	21 51 09							
			i <sub>E</sub>	21 57 10							
			L <sub>E</sub> ?	22 02 10							
			M <sub>E</sub> ?	22 04 19							
			F	23 33 <sup>±</sup>							
37	Nov. 17	I	eL <sub>E</sub> ?	15 29 00							
			eM <sub>E</sub>	15 36 33							
			F	15 56 <sup>±</sup>							

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					e	n	z	A <sub>E</sub>	A <sub>N</sub>	A <sub>Z</sub>	
38	Nov. 18	I	eL <sub>N</sub> F	3 24 00 5 02 <sup>±</sup>							
39	Nov. 18	I	e <sub>E</sub> e <sub>N</sub> F	7 50.3 7 50.5 8 12 <sup>±</sup>							
40	Nov. 19	Ir	eP <sub>EN</sub> ? i <sub>N</sub> i <sub>S<sub>E</sub></sub> i <sub>S<sub>N</sub></sub> eL <sub>E</sub> iM <sub>E</sub> iM <sub>N</sub> F	3 37 27 3 40 35 3 42 00 3 42 07 3 45 02 3 47 50 3 48 20 4 03 <sup>±</sup>						Reported felt in Santa Maria, San Luis Obispo, Lompoc, Calif. at 3h. 22m. P.M. $\Delta_{S-P} = 27^{\circ}2$	
41	Nov. 19	Ir	iP <sub>EN</sub> iPR <sub>LEN</sub> e <sub>S<sub>N</sub></sub> e <sub>S<sub>E</sub></sub> iSR <sub>3N</sub> eL <sub>N</sub> i <sub>N</sub> eM <sub>E</sub> iM <sub>N</sub> F	6 57 06 6 57 59 7 01 59 7 02 06 7 04 34 7 04 52 7 06 53 7 08 53 7 09 00 7 36 <sup>±</sup>						$\Delta_{S-P} = 29^{\circ}9$ Epicenter prob- ably in the Pac- ific Ocean west of British Col- umbia.	
42	Nov. 19	I	eL <sub>E</sub> F	8 15 41 8 51 <sup>±</sup>							
43	Nov. 21	I	e <sub>E</sub> e <sub>N</sub> e <sub>N</sub> e <sub>E</sub> M <sub>E</sub> M <sub>N</sub> F	15 30 40 15 30 41 15 31 50 15 31 52 15 32 12 15 32 25 16 59 <sup>±</sup>							

BULLETIN OF THE SEISMOGRAPHIC STATION  
OF THE  
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.  
FOR THE YEAR 1927

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>		
44	Nov. 21	Iu	eP <sub>E</sub>	18 59 40					$\Delta_{S-P} = 47.4^{\circ}$	
			iP <sub>N</sub>	18 59 43						
			eS <sub>EN</sub>	19 06 32						
			iPS <sub>EN</sub>	19 06 40						
			e <sub>E</sub>	19 08 44						
			eS <sub>c</sub> S <sub>E</sub> ?	19 09 25						
			e <sub>E</sub>	19 10 38						
			eL <sub>E</sub>	19 12 39						
			F	19 33 <sup>+</sup>						
45	Nov. 21	IIu	eP <sub>E</sub> ?	23 25 00					$\Delta_{S-P} = 85.8^{\circ}$	
			eP <sub>EN</sub>	23 25 06						
			P <sub>c</sub> P <sub>EN</sub>	23 25 14						
			ePR <sub>2N</sub>	23 30 25						
			ePR <sub>2E</sub>	23 30 31						
			ePR <sub>3E</sub>	23 32 53						
			ePR <sub>3N</sub>	23 32 55						
			eS <sub>c</sub> P <sub>c</sub> S <sub>N</sub>	23 35 32						
			eS <sub>c</sub> P <sub>c</sub> S <sub>E</sub>	23 35 35						
			iS <sub>EN</sub>	23 35 39						
			iS <sub>c</sub> P <sub>c</sub> P <sub>c</sub> S	23 35 59						
			iS <sub>c</sub> S <sub>E</sub>	23 36 10						
			iPS <sub>N</sub>	23 36 25						
			iPPPS <sub>N</sub>	23 37 05						
			iP <sub>c</sub> S <sub>c</sub> S <sub>c</sub> P <sub>N</sub>	23 40 12						
			i <sub>N</sub>	23 40 25						
			i <sub>N</sub>	23 40 50						
			iSR <sub>1N</sub>	23 41 18						
			iSR <sub>1E</sub>	23 41 27						
			eP <sub>c</sub> P <sub>c</sub> P <sub>c</sub> E	23 43 29						
			eP <sub>c</sub> P <sub>c</sub> P <sub>N</sub>	23 43 37						
			iSR <sub>2N</sub>	23 45 13						
			eSR <sub>2E</sub>	23 45 39						
			iSR <sub>3N</sub>	23 47 09						
			iSR <sub>3E</sub>	23 47 38						
			i <sub>N</sub>	23 50 11						

BULLETIN OF THE SEISMOGRAPHIC STATION  
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SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.  
FOR THE YEAR 1927

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>	
45	Nov. 21 Cont'd		i <sub>E</sub>	23 52 14							
			eL <sub>N</sub>	23 52 37							
			eL <sub>E</sub>	23 52 50							
	M <sub>N</sub>		23 59 25								
	Nov. 22		M <sub>E</sub>	00 00 12							
	F		02 15 <sup>±</sup>								
46	Nov. 25	I	e <sub>N</sub>	15 08.3							
			e <sub>N</sub>	15 15.7							
			e <sub>N</sub>	15 24.7							
			eL <sub>N</sub> ?	16 05.3							
			F	Apparently overtaken by next earthquake							
47	Nov. 25	I	e <sub>N</sub>	17 50.3							
			e <sub>N</sub>	18 04							
			e <sub>N</sub>	18 06.6							
			eL <sub>N</sub> ?	18 19.5							
			F	19 00+							
48	Nov. 25	I	e <sub>N</sub>	19 08.8							
			eL <sub>N</sub> ?	19 14.3							
			F	20 19 <sup>±</sup>							
49	Nov. 26	Iu	O	12 53 57							$\Delta_{S-P} = 63.4$ Tentative epi- center = 22°4 S, 72°4 W Two earthquakes were reported violently felt in Tacna, Chile on this date.
			iP <sub>EN</sub>	13 04 27							
			iP <sub>C</sub> P <sub>EN</sub>	13 05 14							
			i <sub>N</sub>	13 05 43							
			iPR <sub>1N</sub> ?	13 07 35							
			ePR <sub>3N</sub> ?	13 09 35							
			iS <sub>N</sub>	13 13 02							
			i <sub>EN</sub>	13 14 06							
			i <sub>EN</sub>	13 15 32							
			eSR <sub>3N</sub>	13 21 23							
			eL <sub>EN</sub>	13 24 48							
			F	14 50 <sup>±</sup>							
			50	Nov. 28							
F	11 46 <sup>±</sup>										
51	Nov. 28	Id	iP̄	21 58 00							$\Delta = 15$ km.
			iS̄M	21 58 02							
			F	21 58 40							



BULLETIN OF THE SEISMOGRAPHIC STATION  
 OF THE  
 SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.  
 FOR THE YEAR 1927

No.	Date	Or.	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>	
58	Dec. 18	Iv	e <sub>E</sub>	4 03 19					
			e <sub>E</sub>	4 03 49					
			e <sub>E</sub>	4 04 01					
			e <sub>E</sub>	4 04 10					
			e <sub>E</sub>	4 04 17					
			e <sub>E</sub>	4 04 21					
			F	4 11 <sup>+</sup>					
59	Dec. 24	Ir	e <sub>PN</sub>	4 34 19					Δ = 24°8
			i <sub>PE</sub>	4 34 20					
			i <sub>PN</sub>	4 34 20					
			PR <sub>1</sub> EN	4 34 49					
			e <sub>SN</sub>	4 38 35					
			e <sub>SE</sub>	4 38 37					
			SR <sub>1</sub> N	4 39 42					
			SR <sub>2</sub> N	4 40 03					
			e <sub>LN</sub>	4 41 52					
			e <sub>MN</sub>	4 44 01					
			F	5 00 <sup>+</sup>					
60	Dec. 27	Ir	i <sub>PEN</sub>	20 36 50					
			i <sub>N</sub>	20 37 18					
			i <sub>N</sub>	20 37 25					
			i <sub>N</sub>	20 39 22					
			i <sub>EN</sub>	20 40 21					
			i <sub>EN</sub>	20 41 02					
			e <sub>LE</sub>	20 41 29					
			e <sub>ME</sub>	20 41 56					
			F	20 53 <sup>+</sup>					
61	Dec. 27	Ir	e <sub>PEN</sub>	23 36 42					
			i <sub>EN</sub>	23 40 59					
			F	24 01 <sup>+</sup>					



BULLETIN OF THE SEISMOGRAPHIC STATION  
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FOR THE YEAR 1927

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>	
62	Dec. 28	Iu	iP <sub>EN</sub>	9 06 12							$\Delta = 67^{\circ}.4$
			iP <sub>c</sub> P <sub>N</sub>	9 06 50							
			eS <sub>EN</sub>	9 15 14							
			i <sub>EN</sub>	9 15 49							
			eSR <sub>1</sub> EN	9 19 40							
			eL <sub>EN</sub>	9 27 33							
			eM <sub>EN</sub> (?)	9 31 33							
			F	9 58 <sup>±</sup>							
63	Dec. 28	IIu	iP <sub>E</sub>	18 31 40							Kamchatka $\Delta = 68^{\circ}.1$  Phase differ- ences are cor- rect but ab- solute time uncertain
			iP <sub>N</sub>	18 31 41							
			iP <sub>c</sub> P <sub>EN</sub>	18 32 21							
			iS <sub>E</sub>	18 40 46							
			iS <sub>EN</sub>	18 40 53							
			PS <sub>EN</sub>	18 41 10							
			S <sub>c</sub> S <sub>EN</sub>	18 42 12							
			SR <sub>1</sub> EN	18 45 23							
			SR <sub>2</sub> EN	18 48 33							
			SR <sub>3</sub> E	18 49 51							
			eL <sub>EN</sub>	18 51 45							
			iM <sub>EN</sub>	18 54 42							
			F	19 22 <sup>±</sup>							
64	Dec. 30	Ir	e <sub>EN</sub>	12 38 23							
			e <sub>EN</sub>	12 43 08							
			e <sub>EN</sub>	12 44 25							
			L <sub>EN</sub>	12 45 21							
			M <sub>EN</sub>	12 47 09							
			F	13 19 <sup>±</sup>							
65	Dec. 30	Iv (?)	i <sub>EN</sub>	23 37 18							
			i <sub>EN</sub>	23 37 50							
			F	23 38.5 <sup>±</sup>							

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FOR THE YEAR 1927

No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	AE	AN	AZ	
66	Dec. 30	Iv (?)	i <sub>N</sub>	23 47 22							
			e <sub>E</sub>	23 47 22							
			i <sub>E</sub>	23 47 59							
			F	23 49 <sup>±</sup>							
67	Dec. 31	Iv	i <sub>EN</sub> ?	19 21 53							
			i <sub>E</sub>	19 23 13							
			i <sub>EN</sub>	19 24 15							
			i <sub>EN</sub>	19 24 27							
			i <sub>EN</sub>	19 24 48							
			i <sub>EN</sub>	19 25 00							
			L	19 25 26							
			F	Lost in changing record sheet							