

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			Amplitude			Remarks
				h.	m.	s.	A _E	μ	A _N	
1	Jan. 1	Ir	e _N ?	8	27	12				Reported destruc- tive in the Imper- ial Valley, Calif- ornia.
			e _N	8	28	19				
			i _N	8	28	25	15		+14	
			i _L _N	8	28	44	13		+16	
			e _M _N	8	31	00	5		+2	
			F	8	40	±				
2	Jan. 1	Ir	e _N ?	9	23	54				Reported also des- tructive in the Im- perial Valley, Cal- ifornia.
			e _N	9	25	04				
			i _N	9	25	12	17		+28	
			i _L _N	9	25	44	12		+18	
			e _M _N	9	27	17	7		-2	
			F	9	36	±				
3	Jan. 24	Iu	e _N	1	23	50				The epicenter as given tentatively by the U.S. Coast and Geodetic Sur- vey was in the New Hebrides Islands.
			e _N	1	26	56				
			e _N	1	27	31				
			e _N	1	34	28				
			e _L _N	1	51	00				
			e _M _N	2	02	00	38		-51	
			M _L _N	2	04	25	20		+27	
			F	2	54	±				

Constants

Determined	Component	Period T ₀	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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4	Feb. 16	Iu	eP _N ?	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 _{EN}	1 57 10			
			PS _{EN}	1 57 46			
			EL _{eN}	2 00 00			
			F	2 48 \pm			
5	Feb. 28	Iu	iP _N	14 19 02			Presumably Atacama Desert, Chili $\Delta=67.6=7519$ Km
			iS _N	14 28 05			
			PS _N	14 28 32			
			eM _N	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 _N	9	52	17							Near Tongo Peninsula, north central coast of Japan.
			ePS _N	9	53	26							
			ePPS _N	9	54	17							
			eSR ₁ EN	9	58	58							
			eL _{EN}	10	11	22							
			eM _{EN}	10	18	25							
			M ₁ EN	10	23	31	16	16		-24		-26	
			M ₂ E	10	31	33	13			-31			
			M ₂ N	10	31	35		16				+44	
F	11	16 [±]											
7	March 9	Ir	eN?	16	19	38						Apparently off coast of northern California. -Record very faint.	
			e(S) _{EN}	16	24	27							
			L _E	16	28	00							
			F	16	41 [±]								
8	March 25		e _{EN}	13	10	21						Amplitudes very small.	
			e _E	13	13	20							
			L	13	22	00							
			F	13	24 [±]								
9	April 1	Iu	eE?	19	19	38						Very faint	
			e _E	19	29	18							
			e _E	19	30	22							
			L _N	19	44	00							
			M _N	19	55	00							
			F	20	14 [±]								

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

Constants

Determined	Component	Period T ₀	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	0.0035
				6.3	
				6.7	

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					e.	n.	z.	A _E	A _N	A _Z	
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 [±]							
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 [±]							
14	May 22	IIu	ePN	22 46 49						Destructive in the province of Kansu, China. Δ = 103°	
			eP _N	22 50 48							
			ePR _{1N}	22 51 17							
			ePR _{2N}	22 53 25							
			ePR _{2E}	22 53 59							
			iN	22 55 00							
			iPR ₃	22 55 18							
			iScPcSN	22 57 32							
			eScPcSE	22 57 33							
			eScPcPcSE	22 58 41							
			ePSN	23 00 06							
			ePPSN	23 01 21							
			ePPSE	23 01 29							
			eSR _{1N}	23 05 38							
			iSR _{2NE}	23 10 00							
			SR _{3N}	23 13 27							
			eLE	23 18 00	60			-140			
			iMEN	23 29 00	21	21		-17	-5		
			M _{1EN}	23 29 52	21	23		-33	-19		
F	24 45 [±]										

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					e	n	z	A _E	A _N	A _Z	
17	Aug. 5	Iu	e _N e _N e _{SEN} e _{LEN} F	21 30 42 21 30 48 21 36 43 21 52 00 22 24 [±]							Epicenter: Japan. Placed by the U.S. Coast and Geod- etic Survey at 41°N, 141°E.
18	Aug. 6	Iu	e _{SEN} e _{LN} F	00 29 24 00 35 30 00 54 [±]							Epicenter ac- cording to U.S. C. and G.S., 57°N, 159°W.
19	Aug. 10	Ir	i _{PEN} e _{PR₁N} (?) e _{PR₂N} e _{SEN} e _{EN} e _N e _{LEN} (?) F	01 42 01 01 43 03 01 43 14 01 47 09 01 48 25 01 49 05 01 49 21 02 28 [±]							$\Delta_{g-p}=32^{\circ}=3560$ 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 _{LE} e _{LN} M _E M _N F	12 35 00 12 36 00 12 45 00 12 46 00 13 13 [±]							Epicenter near Island of Ceram (according to U.S.C. and G.S. 4°S, 130°E.)
21	Aug. 18	Iu	e _E e _L M F	19 52 20 20 10 00 20 19 00 20 48 [±]							
22	Aug. 20 --21	Ir	e _{PN} e _{PE} e _N e _{LN} e _{SEN} i _{LN} i _{LE} F	00 01 15 00 01 25 00 02 29 00 04 58 00 06 42 00 09 56 00 09 57 00 37 [±]							Epicenter in Pacific south of Panama.

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					e	n	z	AE	AN	AZ	
23	Sept. 11	Iu	ePE?	22 28 33						Destructive in the Crimea	
			ePN?	22 28 38							
			ePR ₂ N	22 33 35							
			eSN	22 38 23							
			eSE	22 38 33							
			eSR ₂ N	22 48 40							
			eLN	22 54 00							
			eM	23 02 00							
F	23 21±										
24	Sept. 18	Ir	ePN	02 12 10					Reported felt on both sides of the southern Sierra Nevada Mts. in California and Nevada, U.S.A.		
			ePE	02 12 11							
			eSN?	02 16 46							
			eLE	02 19 48							
			eLN	02 19 52							
			F	02 38±							

Constants

Determined	Component	Period T ₀	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	A _H	
25	Oct. 24	IIIr	iP _N	16 06 51						Southeastern Alaska $\Delta_{S-P} = 38.8 =$ 3980 Km.
			iPR _{1N}	16 07 59						
			iP _C P	16 09 10						
			iSE _N	16 12 26	19	17		+12	-19	
			iSR _{1N}	16 15 03						
			eLE _N	16 16 36	41	41		-200	+400	
			eME _N	16 18 42	21	21		+1620	+1370	
			M ₁ LE _N	16 19 21	14	14		+3000	+1920	
			M ₂ LE _N	16 20 08	9	9		-710	-720	
			iME _N	16 21 42	14	14		-840	+540	
F	20 09 [±]									
26	Oct. 25	Iv	iP _E	18 23 18						$\Delta = 223$ Km.
			iSE	18 23 46						
			i _E	18 23 53						
			i _E	18 23 58						
			F	18 36 [±]						
27	Oct. 27	I?	eLE	8 28 30						
			F	8 39 30						

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				h.	m.	s.	o.	n	A _E	A _N	
28	Nov. 4	Iir	iP _{EN}	13	56	25	7		-17		Epicenter off the coast of Calif. ΔS-p = 25°9
			iPR _{1E}	13	56	48					
			iPR _{2E}	13	57	00					
			eEN	14	00	33					
			eS _E	14	00	49					
			iS _E	14	01	00	14	13	+138	-42	
			iSR _{1EN}	14	01	32					
			iL _E ?	14	02	22					
			iM _{EN}	14	04	06	7	10	+11	-90	
			M _{E1}	14	06	10	7		+114		
			M _{N1}	14	04	40		7		-290	
			F	15	53	±					
29	Nov. 6	Ir	iP _E	2	45	26					Off California coast. Apparently an after-shock of earthquake of November 4th. ΔS-p = 26°4
			iS _E	2	49	54					
			iL _{EN}	2	53	00					
			iM _{EN}	2	55	20					
			F	3	26	±					
30	Nov. 8	Iu	eP _E	3	30	34					Δ = 150°
			S _C P _C P _E	3	34	08					
			P _S C _P C _S _E	3	44	15					
			S _C P _C P _C S _E	3	45	15					
			eL _E	4	22	00					
			iM _{EN}	4	26	00					
			F	5	30	±					
31	Nov. 12	Iv	c _N	22	14	00					
			i _E	22	14	09					
			e _N	22	14	17					
			i _E	22	14	24					
			i _E	22	14	48					
			iM _E	22	15	18					
			iM _N	22	15	21					
			M _{1N}	22	15	34					
			F	22	42	±					

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

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

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					e	n	z	A _E	A _N	A _Z	
38	Nov. 18	I	eL _N F	3 24 00 5 02 [±]							
39	Nov. 18	I	e _E e _N F	7 50.3 7 50.5 8 12 [±]							
40	Nov. 19	Ir	eP _{EN} ? i _N i _{SE} i _{SN} eL _E i _{ME} i _{MN} F	3 37 27 3 40 35 3 42 00 3 42 07 3 45 02 3 47 50 3 48 20 4 03 [±]						Reported felt in Santa Maria, San Luis Obispo, Lompoc, Calif. at 3h. 22m. P.M. Δ _{S-P} = 27 ^o .2	
41	Nov. 19	Ir	iP _{EN} iP _{R1EN} e _{SN} e _{SE} iSR _{3N} eL _N i _N e _{ME} i _{MN} 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 [±]						Δ _{S-P} = 29 ^o .9 Epicenter probably in the Pacific Ocean west of British Columbia.	
42	Nov. 19	I	eL _E F	8 15 41 8 51 [±]							
43	Nov. 21	I	e _E e _N e _N e _E M _E M _N F	15 30 40 15 30 41 15 31 50 15 31 52 15 32 12 15 32 25 16 59 ⁺							

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

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					e	n	z	A _E	A _N	A _Z	
45	Nov. 21 Cont'd		i _E	23 52 14							
			eL _N	23 52 37							
			eL _E	23 52 50							
	Nov. 22		M _N	23 59 25							
			M _E	00 00 12							
			F	02 15 [±]							
46	Nov. 25	I	e _N	15 08.3							
			e _N	15 15.7							
			e _N	15 24.7							
			eL _N ?	16 05.3							
			F	Apparently overtaken by next earthquake							
47	Nov. 25	I	e _N	17 50.3							
			e _N	18 04							
			e _N	18 06.6							
			eL _N ?	18 19.5							
			F	19 00+							
48	Nov. 25	I	e _N	19 08.8							
			eL _N ?	19 14.3							
			F	20 19 [±]							
49	Nov. 26	Iu	O	12 53 57							$\Delta_{S-P} = 63.4$ Tentative epi- center = 22 ⁰ .4 S, 72 ⁰ .4 W Two earthquakes were reported violently felt in Tacna, Chile on this date.
			iP _{EN}	13 04 27							
			iP _C P _{EN}	13 05 14							
			i _N	13 05 43							
			iPR _{1N} ?	13 07 35							
			ePR _{3N} ?	13 09 35							
			iS _N	13 13 02							
			i _{EN}	13 14 06							
			i _{EN}	13 15 32							
			eSR _{3N}	13 21 23							
			eL _{EN}	13 24 48							
F	14 50 [±]										
50	Nov. 28	I	eL _E	11 06 09							
			F	11 46 [±]							
51	Nov. 28	Id	i _P	21 58 00						$\Delta = 15$ km.	
			i _{SM}	21 58 02							
			F	21 58 40							

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No.	Date	Ch.	Phase	G.M. Time h. m. s.	Period e n z	Amplitude			Remarks
						A _E	A _N	A _Z	
58	Dec. 18	Iv	e _E	4 03 19					
			e _E	4 03 49					
			e _E	4 04 01					
			e _E	4 04 10					
			e _E	4 04 17					
			e _E	4 04 21					
			F	4 11 ⁺ ₋					
59	Dec. 24	Ir	e _{PN}	4 34 19					Δ = 24.0 ^o g
			i _{PE}	4 34 20					
			i _{PN}	4 34 20					
			PR _{1EN}	4 34 49					
			e _{SN}	4 38 35					
			e _{SE}	4 38 37					
			SR _{1N}	4 39 42					
			SR _{2N}	4 40 03					
			e _{LN}	4 41 52					
			e _{MN}	4 44 01					
			F	5 00 ⁺ ₋					
60	Dec. 27	Ir	i _{PEN}	20 36 50					
			i _N	20 37 18					
			i _N	20 37 25					
			i _N	20 39 22					
			i _{EN}	20 40 21					
			i _{EN}	20 41 02					
			e _{LE}	20 41 29					
			e _{ME}	20 41 56					
			F	20 53 ⁺ ₋					
61	Dec. 28	Ir	e _{PEN}	23 36 42					
			i _{EN}	23 40 59					
			F	24 01 ⁺ ₋					

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 SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	A _E	A _N	A _Z	
62	Dec. 28	Iu	iP _{EN}	9 06 12						Δ = 67°4	
			iP _C P _N	9 06 50							
			eS _{EN}	9 15 14							
			i _{EN}	9 15 49							
			eSR ₁ EN	9 19 40							
			eL _{EN}	9 27 33							
			eM _{EN} (?)	9 31 33							
F	9 58 [±]										
63	Dec. 28	IIu	iP _E	18 31 40						Kamchatka Δ = 68°1	
			iP _N	18 31 41							
			iP _C P _{EN}	18 32 21							
			iS _E	18 40 46							
			iS _{EN}	18 40 53							
			PS _{EN}	18 41 10							
			S _C S _{EN}	18 42 12							
			SR ₁ EN	18 45 23							
			SR ₂ EN	18 48 33							
			SR ₃ E	18 49 51							
			eL _{EN}	18 51 45							
			iM _{EN}	18 54 42							
			F	19 22 [±]							
64	Dec. 30	Ir	e _{EN}	12 38 23							
			e _{EN}	12 43 08							
			e _{EN}	12 44 25							
			L _{EN}	12 45 21							
			M _{EN}	12 47 09							
			F	13 19 [±]							
65	Dec. 30	Iv(?)	i _{EN}	23 37 18							
			i _{EN}	23 37 50							
			F	23 38.5 [±]							

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No.	Date	Char.	Phase	G.M. Time h. m. s.	Period			Amplitude			Remarks
					e	n	z	A _E	A _N	A _Z	
66	Dec. 30	Iv (?)	i _N	23 47 22							
			e _E	23 47 22							
			i _E	23 47 59							
			F	23 49 [±]							
67	Dec. 31	Iv	i _{EN} ?	19 21 53							
			i _E	19 23 18							
			i _{EN}	19 24 15							
			i _{EN}	19 24 27							
			i _{EN}	19 24 48							
			i _{EN}	19 25 00							
			L	19 25 26							
			F	Lost in changing record sheet							