

BULLETIN OF THE SEISMOGRAPHIC STATION
OF THE
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
FOR THE YEAR 1925

Latitude of the seismograph vault: $38^{\circ} 33' 17''$ N.

Longitude: $90^{\circ} 13' 59''$ or 6h. 0m. 56s. Gr.

Altitude: 160.4 meters

Foundation: Clay on St. Louis limestone of Mississippian age.

Instrument: Wiechert 30 Kg., inverted pendulum.

For lack of sufficient personnel the constants of the seismograph were not determined during the first eight months of the year. Amplitudes given in the reports for the months January to August are trace amplitudes in millimeters. During the last four months they are reduced to approximate earth amplitudes in microns.

No.	Date	Char.	Phase	G.M. Time			Period s.	Trace Amp.		Remarks		
				h.	m.	s.		AE mm.	AN			
1	Jan. 18	IIu	eP _{EN}	12	17	51	9	3.6	2.6	Kuril Islands $\Delta = 7505 = 8390$ km.		
			ePR _{2N}	12	22	45						
			iS _{EN}	12	27	31						
			i _{EN}	12	27	35						
			PS _E	12	27	57						
			SR _{1N}	12	32	52						
			SR _{2N}	12	36	05						
			eL _N	12	42	00						
			fM _N	12	49	07						
			M _{1N}	12	49	50					21	0.5
			F	13	34 [±]							

BULLETIN OF THE SEISMOGRAPHIC STATION
OF THE
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
FOR THE YEAR 1925

No.	Date	Char.	Phase	G.M. Time h. m. s.	Period s.	Trace Amp.		Remarks				
						AE	mm AN					
2	Feb. 24	IIr	iP _{EN}	00 01 31	5	0.4	0.9	Reported from Anchorage and other points in Alaska $\Delta = 4291 = 4630$ km.				
			e _N	00 02 31								
			ePR _{1EN}	00 03 14								
			iPR _{2EN}	00 03 49								
			iS _N	00 07 44								
			iS _E	00 07 45								
			PS _{EN}	00 07 54								
			i _{EN}	00 09 13								
			iSR _{1EN}	00 10 34								
			iSR _{2EN}	00 11 17								
			eSR _{3EN}	00 12 05								
			eL _{EN}	00 14 00					This phase is obscure.			
			iM _{EN}	00 15 34								
			M _{1E}	00 16 03						7	5.4	
			M _{2E}	00 17 02						18	4.6	
			M _{3N}	00 17 04						20	2.8	
F	1 00 [±]											
3	March 1	IIIr	iP _{EN}	2 23 13	6	0.4	0.4	Destructive in the Province of Quebec $\Delta = 1693 = 1370$ km.				
			i _{EN}	2 23 36								
			i _{EN}	2 23 50								
			i _N	2 25 25								
			i _{EN}	2 26 08								
			i _{EN} (S)	2 26 19								
			iL _{EN}	2 26 29						7.5	0.6	1.2
			i(E) _N	2 27 19						8	3.3	5.6
			iM _{EN}	2 28 04								
			M _{1EN}	2 28 20						5	29	36
			i _{EN}	2 29 16								
			i _{EN}	2 30 11								
			F	3 15 [±]								

BULLETIN OF THE SEISMOGRAPHIC STATION

OF THE

SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.

FOR THE YEAR 1925

No.	Date	Char.	Phase	G.M. Time			Period	Trace Amp.		Remarks
				h.	m.	s.		s.	A _E mm.	
4	April 27	Iv	iP _E	4	05	37				Reported from Illinois and Indiana. Δ about 300 Km.
			eP _N	4	05	37				
			iS _{EN}	4	06	15				
			F	4	08 [±]					
5	June 14	Ir	iP _{EN}	22	33	15				Caribbean Sea between Jamaica and Honduras. Δ = 2304 = 2600 Km.
			ePR _{1N}	22	33	29				
			ePR _{2N}	22	33	37				
			eS _{EN}	22	37	19				
			iS _{EN}	22	37	24	11	0.8	0.4	
			eL _E	22	40	27				
			iL _{EN}	22	40	46	13	0.2	0.2	
			eM _{EN}	22	42	00				
			M _{EN}	22	42	29	8	0.3	0.6	
F	22	50 [±]								
6.	June 28	IIr	iP _E	2	09	41				
			eP _N	2	09	42				
			e _{EN}	2	10	40				
			eL _N	2	13	59				
			iM _N	2	14	39				
			iM _E	2	14	46				
			M _{1EN}	2	14	47	4	2.7	5.6	
			M _{2E}	2	16	18	11	1.8		
			F	2	43 [±]					

BULLETIN OF THE SEISMOGRAPHIC STATION
OF THE
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
FOR THE YEAR 1925

No.	Date	Char.	Phase	G.M. Time h. m. s.	Period s.	Trace Amp.		Remarks
						A _E mm	A _N	
7	June 28	IIIr	eP _{EN}	1 25 12				Destructive in Montana. $\Delta = 15^{\circ}2' = 1690$ Km.
			iP _{EN}	1 25 15				
			i _{EN}	1 25 20	4	2.4	1.2	
			i _{EN}	1 25 23	4	3	1.3	
			i _E	1 25 28				
			i _E	1 25 50				
			i _E	1 26 23				
			i _E	1 27 00				
			i _{EN}	1 27 36				
			i _E	1 27 51				
			iL _{EN}	1 28 53	6	1	0.8	
			iM _{EN}	1 29 16				
			M ₁ EN	1 29 20	5.5	17	158	
			M ₂ EN	1 29 23	5.5	34	90	
			M ₃ EN	1 29 47	11	66	80	
			i _{EN}	1 29 51				
			F	Obscured	in the following aftershock			
8	June 29	IIr	e _E	14 47 45				Destructive in Santa Barbara, California. Δ measured = $23^{\circ} = 2560$ Km.
			e _E	14 52 14	20	0.4		
			e _N	14 52 16				
			i _E	14 52 24	20	1.0		
			e _N	14 53 08				
			e _E	14 53 09				
			L _N	14 55 00				
			L _E	14 55 08				
			M _N	14 55 40	15		2.5	
			M _E	14 55 42	6	0.8		
			M _E	14 57 40	20	2.6		
			M _N	14 57 50	14		2.8	
F	15 15 [±]							

BULLETIN OF THE SEISMOGRAPHIC STATION
OF THE
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
FOR THE YEAR 1925

No.	Date	Char.	Phase	G.M. Time h. m. s.	Period s.	Trace Amp.		Remarks
						A _E mm.	A _N	
9	July 7	Ir	eP _N	14 17 42				Off southwest coast of Mexico about 17° N and 107° W. Δ=25° 1=2790 km.
			eS _N	14 22 00				
			iS _E	14 22 21	7	+0.3		
			iS _N	14 22 22	10		+1	
			eL _{EN}	14 25 00				
			L _{1EN}	14 26 00	14	-1.2	+1.1	
			iM _{EN}	14 26 13				
			M _{1EN}	14 26 26	11	-1	+1.2	
			M _{2N}	14 26 32	11		-2	
			M _{3EN}	14 27 16	7	+0.5	-2.4	
			e _{EN}	14 28 22				
F	14 57±							
10	July 30	Iv	i _N ?	12 20 19				Reported from Panhandle, Cuyler, and Amarillo, Tex. Δ=9° 4=940 km.
			i _N ?	12 20 33				
			i _{EN}	12 20 38				
			i _{EN}	12 21 08				
			i _{EN}	12 21 17	2		-0.6	
			i _N	12 21 52				
			i _E	12 22 39				
			i _N	12 22 43				
F	12 24±							
11	Aug. 19	Iu	eP _E ?	12 18 19				Off East Coast of Kamchatka. Δ=66° = 7330 km.
			eP _N	12 18 25				
			iS _E	12 27 04	7	-0.7		
			e _E	12 27 34				
			eL _E	12 36 31				
			eL _N	12 38 34				
			eM _E	12 43 44				
			M _{1EN}	12 44 32	19	+1.2	+0.6	
F	12 58±							

BULLETIN OF THE SEISMOGRAPHIC STATION
OF THE
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
FOR THE YEAR 1925

No.	Date	Char.	Phase	G.M. Time h. m. s.	Period s.	Trace Amp.		Remarks
						A _E mm	A _N	
12	Aug. 29	Ir	eP _{EN} ?	10 41 00				In the vicinity of the extremity of the Peninsula of Lower California $\Delta=23^{\circ}4' = 2600$ km.
			e _E	10 41 37				
			e _E	10 41 37				
			e _E	10 43 09				
			e _E	10 46 34				
			e _N	10 47 38				
			eL _E	10 47 42				
			L _{1EN}	10 48 16	13	+0.8	-1.2	
			iM _{EN}	10 49 41				
			M _{1E}	10 50 09	8	-1.5		
M _{2E}	10 50 34							
F	10 58 [±]							
13	Sept. 2	Iv	e _{EN} ?	11 56 20		Amplitude μ		Reported from Evansville, Ind. The E-W pen was not in perfect adjustment.
			i _{EN}	11 56 42				
			i _E	11 56 44				
			i _N	11 56 45				
			i _{EN}	11 56 59				
			iM _N	11 57 05				
			F	11 58 [±]				
14	Oct. 5	Ir	eP _E ?	4 13 41				East central Nic- aragua 13°N. 84°W. $\Delta=26^{\circ}5' = 2940$ km.
			eP _N	4 13 42				
			ePR _{1N}	4 17 22				
			ePR _{2N}	4 17 29				
			e _{EN}	4 15 14				
			iS _N	4 19 00				
			iS _E	4 19 02				
			i _{EN}	4 19 08	6	+7	-13	
			eL _N	4 19 44				
			eM _E	4 20 19				
			M _{1E}	4 20 56	13	-77		
			F	4 27 [±]				

BULLETIN OF THE SEISMOGRAPHIC STATION
OF THE
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
FOR THE YEAR 1925

No.	Date	Char.	Phase	G.M. Time			Period s.	Amplitude μ		Remarks
				h.	m.	s.				
15	Oct. 13	Iu	eP _{EN}	17	49	37	4	+1	-1	Atlantic Ocean 42°W. 10°N. $\Delta=51^{\circ}4=5710$ km.
			iP _{EN}	17	49	38	6	-4	+3	
			PR _{1E}	17	51	24				
			iPR _{2EN}	17	52	32				
			iS _N	17	56	54	4		-3	
			iS _E	17	56	56	4	+2		
			i _{EN}	17	57	03	8	-17	+14	
			SR _{1EN}	18	00	28				
			i _N	18	02	45				
			eL _E	18	04	30				
			eL _N	18	04	45				
			iM _N	18	05	00	16		-64	
			M _{1E}	18	06	06	23	-161		
			M _{2N}	18	10	47	16		-96	
			F	18	34 [±]					
16	Oct. 19	Ir?	e _N	10	54	12				
			e _N	10	54	42				
			eL _N	10	55	00				
			iM _{EN}	10	55	32	11		+9	
			M _{1N}	10	55	58	10		+20	
			F	10	59 [±]					
17	Nov. 10	Iu	eSR _{1N}	14	29	00				Near N.W. part of New Guinea about 130°E. 2°S. $\Delta=127^{\circ} = 14110$ km.
			eL _N	14	44	00				
			eL _E	14	45	00				
			iM _N	14	55	00	24		+76	
			M _{1EN}	15	06	11	17	-38	-30	
			F	15	43 [±]					

BULLETIN OF THE SEISMOGRAPHIC STATION
OF THE
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
FOR THE YEAR 1925.

No.	Date	Char.	Phase	G.M. Time			Period s.	Amplitude		Remarks			
				h.	m.	s.		A _E	μ A _N				
18	Nov. 13	Iu	e _N [?]	12	33	00	26	-	-24	Pacific Ocean N.E. of Island of Samar 127°E. 13°N. Δ=117°=13000 km.			
			PS _N	12	44	45							
			eSR _{1N}	12	51	20							
			SR _{2N}	12	56	11							
			eL _N	13	04	00							
			eM _N	13	16	09							
			eM _E	13	18	50							
			M _{1N}	13	22	00					21	+84	
			M _{2N}	13	26	21					19	+57	
F	14	05	±										
19	Nov. 16	Iir	iP _{EN}	12	00	26	4	-	+4	Off Pacific coast of Mexico, about 106°W. 16°5' N. Δ=25°8'=2870 km.			
			iPR _{1EN}	12	01	00							
			iPR _{2N}	12	01	09							
			iPR _{3N}	12	01	19							
			i _N	12	01	36							
			e _N	12	02	56							
			eS _{EN}	12	04	49							
			iS _N	12	04	54					13	+94	
			i _N	12	05	04					7	-33	
			SR _{1EN}	12	05	58							
			SR _{2N}	12	06	13							
			SR _{3N}	12	06	23							
			cL _E	12	06	57					39	-600	
			eM _{EN}	12	08	31					18	-187	+115
			M _{1EN}	12	08	57					13	+62	-116
			M _{2EN}	12	10	32					16	-116	-116
F	12	47	±										
20	Nov. 28	Ir	i _N	12	38	26							
			i _N	12	39	04							
			i _N	12	39	30							
			i _N	12	42	26							
			cE	12	43	32							
			F	12	47	±							

BULLETIN OF THE SEISMOGRAPHIC STATION
OF THE
SAINT LOUIS UNIVERSITY, SAINT LOUIS, MISSOURI, U.S.A.
FOR THE YEAR 1929

No.	Date	Char.	Phase	G.M. Time			Period s.	Amplitude			Remarks
				h.	m.	s.		A_E	μ	A_N	
21	Dec. 10	Iir	eP _N	14	20	01				Off Pacific Coast of Guate- mala. $\Delta=25^{\circ}3' = 2810$ km.	
			i _N	14	20	25					
			i _N	14	20	34					
			i _N	14	20	43					
			i _N	14	20	50					
			i _N	14	21	04					
			i _N	14	21	08					
			i _N	14	21	22					
			i _N	14	21	46					
			e _N	14	22	22					
			e _N	14	23	31					
			e _N	14	24	20					
			i _N	14	24	30					
			i _N	14	24	49	16		-113		
			i _N	14	25	07	13		-113		
			i _{EN}	14	26	45	35		+40		
			eL _{EN}	14	26	45	35		+40		
iL _{LN}	14	30	00	24		+181					
iM _N	14	32	00	20		+71					
M _{LN}	14	33	32	16		+65					
F	15	26 [±]									

CONSTANTS

Determined	Component	Period T_0	V	Damping	$\frac{r}{T_0^2}$
September 25	E	5.4	72	6.0	.0083
	N	6.4	78	7.3	.0094
October 5	E	5.7	74	5.4	.0065
	N	6.3	74	5.0	.0061
December 26	E	5.7	74	3.2	.0081
	N	6.4	75	4.9	.0073
				5.5	
				5.6	