EARTHQUAKE STATION, ST. LOUIS UNIVERSITY

St. Louis, Mo., U.S.A.

Latitude: 38°38'17"N.

Longitude: 90°13'58".5 or 6h 0m 55s.9 W.Gr.

Time: Mean Greenwich, midnight to midnight

Instrument: Wiechert 80 kg., astatic, horizontal pendulum

NOMENCLATURE: Goettingen

From January 1st. 1913 to March

Date	Char.	Phase	Time	Period. T	Amplitude AE	Amplitude AN	
			h. m. s.	s.	MM.	MM.	
Jan. 15	Ir	iP N	18: 58. 3	3		.6	E-W very faint
		eP E	18: 58. 4				Distance about 3000 km.
		PR 1N	18: 58. 8	4-6		1.	
		S E	19: 02. 8				
		S N	19: 02. 8	5		.5	
		L E	19: 03. 8	6-9			
		F E	19: 40.				
Feb. 18	I	?e N	00: 47. 1				
		L N	00: 52. 7	9			
		F	8: 15. 5				
Mar. 3	II	e	3: 12. (?)				Record very imperfect.
		?S E					T_E = 6. 8 sec.
		L N	3: 18. 5	10-12			T_N = 7. 3 sec.
		L E	3: 19. 8	10-11			E_E = 5. 1
		M N	3: 20.	10		.8	E_N = 6. 2
		F	3: 48. 5				
Mar. 4	Iu	S N	11: 29: 50				(S-L) = 4 min. 25 sec.
		S E	11: 30: 14				Distance = 4450 km.
		?SR E	11: 32: 15				Periods and amplitudes
		L	11: 34:				exceedingly slight
		F	11: 50.				
Mar. 8	IIr	?P N	15: 57. q				S - P = 5 m. 35 s.
		S	16: 02: 41	4-10			Δ = 3800 km.
		M N	16: 02: 50	10			Beginning of phases
		eL	16: 06: 12				indistinct
		L N	16: 11: 36	10		.4	T = 7 sec.
		C N	16: 12: 36	10			E_N = 6.2
		F	16: 33 ca.				E_E = 6.1

J.B. Macelwane, S.J.

EARTHQUAKE STATION - ST LOUIS UNIVERSITY

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Latitude: 38° 38' 17" N.

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Time: Mean Greenwich, midnight to midnight

Instrument: Wiechert 80 kg., astatic, horizontal pendulum.

NOMENCLATURE: International.

From March 9 1913 to March 31 1913

Date	Char.	Phase	Time	Period	Amplitude		Remarks
			h. m. s.	T. s.	AE mm.	AN mm.	
Mar. 9		$L_{\cdot}$	16: 30. 4			4	S - P = 10m.
							Δ = 8800 km.
Mar. 14	IIu	P	9: 05: 58				P_N faint. L prominent, but no distinct M.
		S	9: 15: 59				
		?e L_N	9: 27: 55				
		?eL_E	9: 32: 01	12			
		L_E	9: 41: 07	40	.4		
		L_E	10: 04: 44	15	.5		
		F_E	11: 14: oa.				
Mar. 15	I	?e $_E$	22: 29:.7				N-S disturbed
		eL_E	22: 33: 22	6			by windquakes
		F_E	22: 52.				
Mar. 31	IIu	P	3: 51: 14				S - P = 8m. 18 s.
		S_E	3: 59: 31				
		S	3: 59: 33				Δ = 6800 km.
		L_N	4: 02. 2	33			On N-S there
		M_{N1}	4: 15: 35	20		.7	are seven distinct main
		M	4: 15: 59	19	.4		shocks and 3
		$_{E1}$					after shocks
		M_{N2}	4: 17: 37	13		.9	T_E = 7 sec.
		M_{E2}	4: 17: 45	14	.7		T_N = 7.2 sec.
		M_{N3}	4: 19: 48	14		1.	ε=5.8 $_E$
		M_{E3}	4: 19: 48	16	.8		ε = 6.3 $_N$
		M_{E4}	4: 22: 49	11	.6		
		M_{N4}	4: 23: 21	13		,9	
		M_{N5}	4: 27: 58	12		.6	

J. B. Macelwane S.J.

Date	Char.	Phase	Time	Period	Amplitude AE	Amplitude AN	Remarks
			h. m. s.	s.	mm.	mm.	
Mar. 31		~~M~~					
		C_N	5: 03: 45	10		.4	
		C_{E1}	5: 03: 45	10	.2		
		C_{E2}	5: 09: 14	10	.2		
		F_N	5: 13: 30				
		F_E	5: 30. ca.				
Apr. 25	I	?e	18: 23: 42				
		L_E	19: 00: 30				
		L_N	19: 02: 07	20			
		L_E	19: 11: 06	18			
		F	19: 59.				
Apr. 26	Ir	P	12: 43: 49				No L on E-W. P-S= 5m. Δ = 3250 km.
		P_E	12: 43: 51				
		P_N	12: 43: 51				
		S	12: 48: 50				
		?eL	12: 51: ca				
		L_N	12: 54: 14	15			
		L_N					
		?F	13: 15.				
Apr. 28		i	24: 34: 27				Local earthquake
		i_E	24: 34: 35				felt along the
		i_N					St. Lawrence
Apr. 29		L	24: 05. 5	15			
		L_E	24: 07: 25	15			
		L_N					
		?F	24: 25.				
Apr. 30	Iu	?S	11: 52: 15				Δ = 8000? km.
		L	12: 04: 58	17			
		L_N					
		L_E	12: 04: 59	14-16			
		F	13: 57.				

Supplementary : Please insert in previous record:

Jan. 11	I	$?P_E$	13: 39.				Contact clock
		$?P_N$	13: 39. .1				slightly inac-
		L_N	13: 54: .3				curate
		L_E	13: 54.				
		F_E	15: 37.				

Note: Please rectify the following on first record 1913:

Damping symbol write: ε for E

Amplitudes in millimetres write: mm for MM.

~~Δ = D~~ ~~E = e~~

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NOMENCLATURE: INTERNATIONAL.

From May 1 to August 31

Date	Char.	Phase	Time	Period	Amplitude		Remarks
				T	AE	AN	
			h. m. s.	s.	mm	mm	
May 8		e_E	18 51 .8				Record very slight and masked in locals and microseisms
May 16	I	?eL_E	12 11 15	10			
		?eL_N	11 17				
		F	30 ca.				
May 30	I	?eP_N	11 54 53				Δ = 13200 Km.?
		?eP_E	58 .3				
		e_N	12 02 .7				T_E = 7 sec.
		e_E	02 35				T_N = 7 sec.
		eL_N	34 20	54		.4	e_E = 4.5
		eL_E	35 .5				e_N = 6.3
		L_E	50 32	20	.5		
		L_N	53 36	15		.6	
		F_E	14 08 30				
		F_N	09 55				
June 22	Ir	eP	13 59 .6				
		R_1 P N	14 02 .2				S-P = 8 min. .1 sec.
		eS	07 .7				Δ = 6.500 Km.
		?R_1 S N	12				Quake reported from Aleutian Islands
		?eL_N	17 .4				
		?eL_E	17 .8				
		M_E	26	17	.5		
		M_N	27 .5	16		.7	
		F	15 12				

Continued

Date	Char.	Phase	Time h	m	s	Period T s	Amplitude AE mm	Amplitude AN mm	Remarks
June 26	Ir	?eP	5.	11	30				S-P==6min. 30sec.
		?eS E		18					
		R P E		13	15.				Δ=:4.900 Km.
		1 eL E		23	01				Microseisms onN.S
		?eL N		23	50				render determina-
		M E		45.	18	26	.8		tion of S impossi=
		M N		43	54	21		.7	ble
		F	7	36					
July 8	Ir	?eP E	0	17	05.				S-P=3min. 18sec.
		eP N	0	17					Δ = 1.900
		eS E	0	20	23				
		eS N	0	20	16				
		eL E	0	20	59				
		eL N	0	21	58				
		M E	0	25.	39	.8	.4		
		M N	0	25.	17	10		.7	
		F N	0	40					
		F E	0	42					
Aug. 1	II	?e	17	33	02				
		?eL		52	50				
		F	18	30					
Aug. 6	II	?eP E							
		e	21	21	15.				S-P=5min. 24 sec.
		?eP E		24	06				Δ = 3.600 Km.
		P N		24	22				
		?eS E		29	30				Quake reported
		?S N		29	19				from Peru
		eL E		31	58				
		L N		32	12	12			
		M E		44	55.	30	.9	.	
		M N		48		21		2.1	
		M E2 F	22	50		20	1.2		

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NOMENCLATURE: INTERNATIONAL

:::

From October 2 to December 31 1913

Date	Char.	Phase	Time	Period	Amplitude		Remarks
				T	AE	AN	
			h m s	s	mm	mm	
Oct. 2	IIr	eP_N	4: 29: 47				
		$?PR_{1N}$	30: 41				Distance: 3100 Km.
		eS_N	34: 13				reported from Panama
		$?S_E$	35: 53				
		eL_N	36: 17				
		$?eL_E$	39: 04				
		M_{N1}	41: 11	9		.5	
		M_E	41: 15	8	.4		
		M_{N2}	46: 09	11		.6	
		F_N	5: 03: 00				
		F_E	5: 18: 00				
Oct. 4		e_N	22: 11: 39				Microseisms,
		eE_E	11: 06				especially on E-W
		F	29: 00				
Oct. 11		$?eP_E$	2: 03: 16				
		$?eL_e$	35: 00				
		eL_e	43: 00				
			53: 00				

Date	Char.	Phase	Time h m s	Period T s	Amplitude AE mm	Amplitude AN mm	Remarks
Oct. 11	IIr	eL_N	5: 05: 38				
		eL_E	:16 :42				
		F	:35 :00				
Oct. 14	Ir	eP_E	8 :27 :38				
		RP_{2E}	:33 :12				
		RP_{3E}	:34 :22				
		?eS_E	:38 :08				
		RS_E	:44 :				
		F	:55 :00				
Oct. 23	Ir	?eP	15:08 :26				
		eS	:13 :14				
		eL	:15 :25				
		M_E	:16 :19	9	.3		
		F	:44 :00				
Nov. 23		e_E	21:34 :17				
Nov. 26		$?i_N$	7:01 :00				Microseisms prevail
		?e	:04 :00				
Dec. 6		e_E	0:26 :00				
		e_E	0:31 :12				
Dec. 6		?e	11:08 :33				
		$?i_E$	:14 :46				
		?e	:19 :27				
Dec. 15			23:59 :00				
			24:14 :06 24:48 :02				Microseisms
Dec. 21		$?eL_E$	16:42 :25				
		eL_N	:43 :00				
		M_N	:46 :12			.3	
		F	17:00 :00				
Dec. 28		?e	12:08 :12				Microseisms, remarkable for their frequent appearance on this and the following days
		?i	:18 :49				