

ROSDHAM UNIVERSITY, NEW YORK CITY

Monthly Seismological Report



Latitude 40° 51' 47" N. Longitude 73° 53' 08" W. Elevation above sea 23.9 metres

Time: Mean Greenwich, midnight to midnight. Nomenclature: Göttingen

Instrument: Wiechert horizontal, 80 kg. Foundation: Stockbridge Dolomite (Silurian)

From JANUARY 1st to JANUARY 31st. No. _____

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A _E	A _N		
22		Ø	9 04 10				4160 4060Km.	
		↳ P _E	9 11 40					
		↳ PR _N	9 13 07					
		↳ P _N	9 11 40					
		↳ S _E	9 17 36					
		↳ S _N	9 17 35					
		L _N	9 22	*				
M _N	9 25 53	*4250	4000					
26		oN	8 14 41					
		oN	8 15 26					
		oE	8 15 31		*			
		LE	8 17 20		250			
		LN	8 18					
		LN	8 20					



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From **FEBRUARY 1st.** to **February 28th.** No.

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A _E	A _N		
2		LE	1 46 -				Preliminaries not discernible.	
2		O PN SE SN LN LE ME	5 07 43 5 19 17 5 28 46 5 28 49 5 45 5 45 5 50 54				Clock correction uncertain. * 875 8200 Km.	
3		O PE PN SN SE L _{TE} L _{TN} LN ME	16 03 06 16 14 25 16 14 27 16 23 44 16 23 45 16 35 16 35 16 40 16 44				* 13750 8000 Km.	
3		LE LE ME	19 22 19 30 19 33					
12		eE LE	2 31 31 2 39				Obscured by micros.	
24		O ePN ePE eSE LE ME	7 34 28 7 46 17 7 46 09 7 55 48 8 10 8 17 25				First Preliminaries doubtful, obscured by micros. * 1500 8380 Km.	
27		eE LE	20 51 32 20 55				Obscured by micros.	



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From March 1, 1923 to April 24, 1923 No. 1

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A _E	A _N		
	Mar.							
	2	L _N	17-26-0					
		M _N	17-56-0					
		L _E	17-40-0					
		M _E	18-05-0					
	11	e	2-25-0					
		L	2-30-30					
		F	2-35-0					
	14	L	4-13-0					
		F	4-24-0					
	24 16	eL	8 ^h 32-48					
		M	8-45-30		400			
	16	eL	6-21-0					
		F	6-40-0					
	APR. 13	L	11-8-25	20				
		M	11-15-0		400			
		F	11-37-0					
	22	eL	11-21-0					
		F	11-39-0					
	24	P	5-25					
		S	6-2-22					
		L	6-7-30					
		M	6-8-0	5	500			



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From April 24, 1923 to Aug 15, 1923 No. 2

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A _E	A _N		
	Apr. 25	eP(?)	2-52-37					
		L	2-55-0					
		M	2-55-25					
	May 3	F	3-17-12				6,690	
		P _E	11-36-35					
		S _E	43-37.5					
		P _N	36-6.5					
		S _N	43-40.5					
		M	57		2500			
	July 20	F	lost in changing record. impossible to read due to overlapping of lines.					
	22	e	2-48-10					
		L	50-0					
		F	3-0					
<p>These copies were made from old readings made before my time. I did not assume control until Sept. 1923 and did not find that the readings had been entered into the log. The time on some may possibly be Eastern Standard as the clocks were not set to read Greenwich time until I came.</p> <p style="text-align: right; font-family: cursive;">J. W. Johnson, S. I.</p>								



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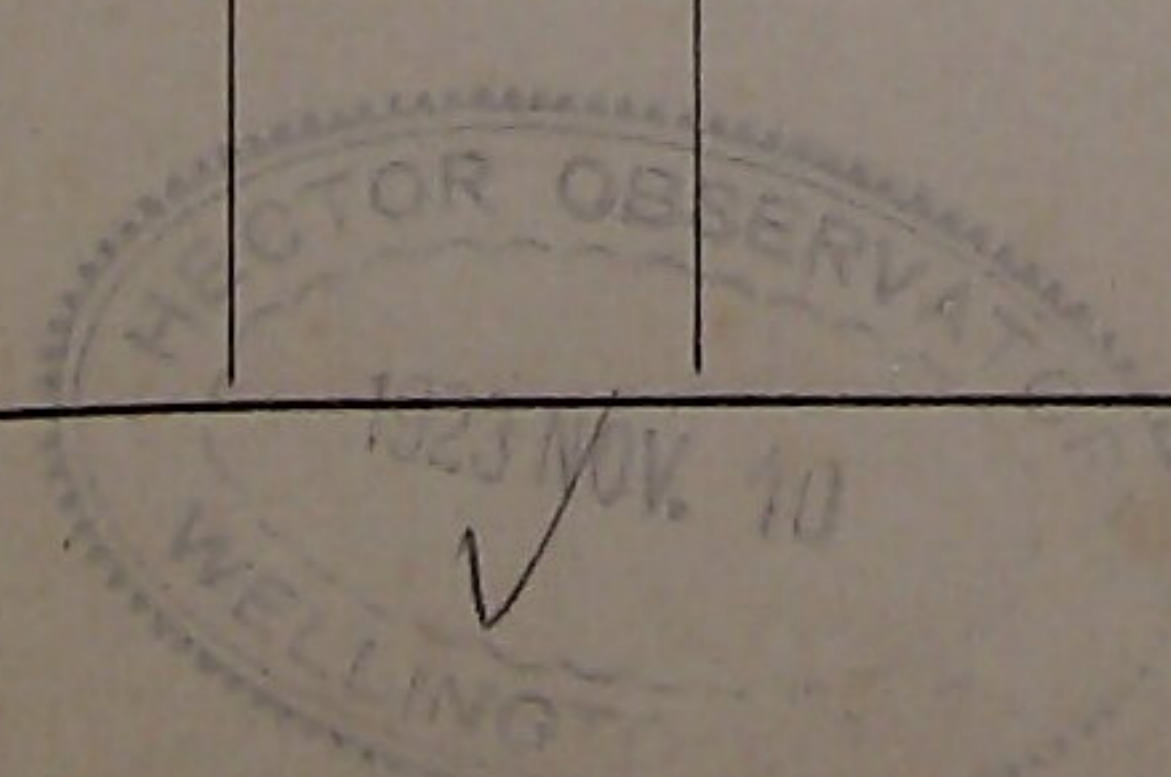
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From Aug. 14 1923 to Oct. 5 1923 No. _____

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A _E	A _N		
	Aug. 14 to Sept. 10	Chronograph being repaired.			of mm.	trace		
11		P L	Obscured by micros. 15-36-45		.02	0		
26 to 29	E-W	Component out of order						
30	eP		1-26-41			0	3500	
	eS		31-44			0		N-S Comp. not working properly.
	L		35-16	28	1.5	irreg.		
	M		36-35	18	3.8	"		
	M ₁		27-23	16	4.8	"		
	M ₂		39-21	16	5.4	"		
	M ₃		40-51	13	3.0	"		
	M ₄							
	O		50	9.2	9.2			
	F		Obscured by micros.					
Constants:					Components			
	Period				E-W	N-S		
	Magnification				5.7sec.	3.7sec.		
	Resistance				8mm.	4mm.		
	Damping				3.26	3.7		



T.W. S. J., S.J.

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From October 5 to December 31, 1923 No. _____

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS	
					A _E	A _N			
	October								
	7	L	3 or 4 hrs					Long quake obscured by micros No clock marks.	
	10	eL M F	6h 23m 6 37 7 10)))				badly broken up by excessive clock marks	
	12	Not working							
	13 to 29	Many small shocks all day long probably of local origin							
	30	Thrust arms removed for repairs.							
	November								
	18	Thrust arms received from repair shop and machine reassembled							
	19 et	seq. Locals noted above continue. prominent micros.							
	20 to 27	Clock out of order							
	N.B.	Thesenlocal shocks continue until Dec 22 occurring both day and night except on Sunday. Exceptionally heavy micros in December (6,7,8,9,11,15,19,23,27,29,30) which might easily conceal small quakes.							
	Determination of constants December 6, 1923.								
		Component			N	E			
		Period		T	5.0	4.8			
		Magnification		V	78	59.5			
		Friction		r	.6	.7			
		Damping		e	2.9	2.8			
	<p>No record seems to have been kept of the period from February to July. Part of this time the machine was not operating. Will send analyses of what seismograms we have as soon as these can be prepared.</p>								



F.W. Johnson, S.S.