

FORDHAM UNIVERSITY, NEW YORK CITY

Monthly Seismological Report



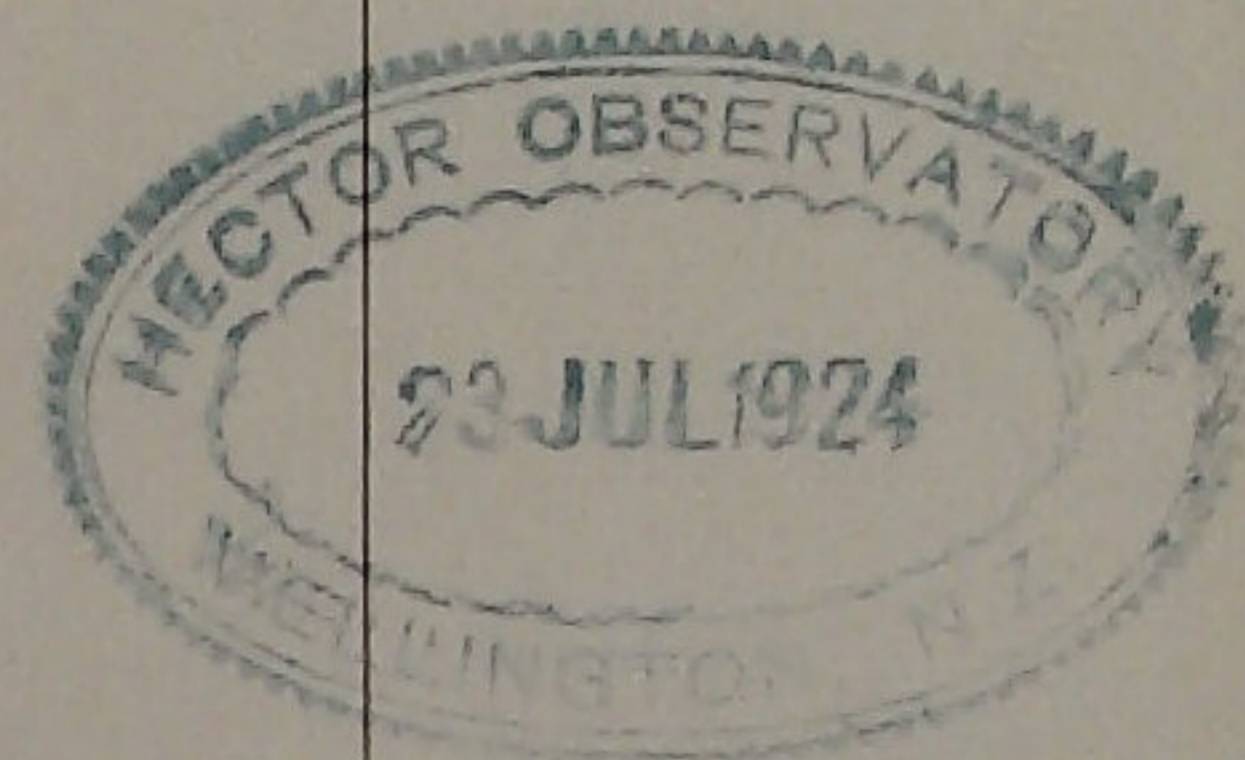
Latitude 40° 51' 47" N. Longitude 73° 53' 08" W. Elevation above sea 23.9 metres

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

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

From Jan 1, 1924 to July 31, 1924 No. _____

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A _E	A _N		
	Jan.							
	6	i	9-32-30					
		L	50	5	200			
		F	34					
	11	eL	17-12-0		20			
		F	lost					
	14	e	21-37-17					
		L	39-19	20	100			
		F	48-16					
<p>In the beginning of February station shut down and instruments dismantled etc. pending removal to new site. We hope to be able to start Aug. 1, 1924 & with our new Milne-Shaw.</p> <p style="text-align: right; margin-right: 50px;"><i>T. Wilson, S.S.</i></p>								



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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: MILNE-SHAW, N-S COMP. Wiechert horizontal, 80 kg. Foundation: Stockbridge Dolomite (Silurian)

From Jan. 14, 1924 to Jan. No.

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					N - S comp. trace mm	E - W comp. earth μ		
25-3	Jan. 17	P _i	12,18,16		1.2		8960 kms.	Kuril Islands
		S _i	12,28,25	17	7.	58.3		
		SR	12,33,46	14	3.	19.4		
		L	12,47,00	20	3.4			
		M ₁	12,55,05	18	3.5	33.4		
		M ₂	13,00,15	17	5.	43.5		
		M ₃	13,01,42	15	5.	35.6		
		M ₄	13,03,35	15	4.6	32.8		
		M ₅	13,04,30	16	4.6	38.8		
		Ca	13,28,05	21	2.	25		
		F	13,59,00				Maxima decreasing in intervals of 3 minutes, until, 13,28,0	
	Jan. 25	Magnification of Milne Shaw set to 150.						
25-4	Jan. 26	P _i	19,08,58				3550 kms.	
		S _i	19,14,18	22	1.5			
		L	19,18,35					
		M ₁	19,21,38	20	2.6	29.6		
		M ₂	19,23,38	20	2.4	27.6		
		M ₃	19,25,18	18	1.1			
		F	20,18,58					
25-5	Jan. 28	Quake lost due to wandering zero.						
		L	lost	15	2	17.4		
		M	"	17				
25-6	Jan. 30	P _o (?)	17,55,42					P doubtful
		L	18,02,40	26	1.	18.9		
		M ₁	18,09,32	20	1.1	11.5		
		M ₂	18,14,15	15				
		M ₃	18,16,05	15				

1924
~~LAST~~ LAST QUARTER
 1924

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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)
 Milne-Shaw Photographic

From Oct. 8, 1924 to Dec. 8, 1924 No. _____
 N - S comp.

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A_N trace mm	A_X earth μ		
24-1	Oct. 8	e_N	20,47,00	22 14			2400	Clock cor- rection +64 sec
		L_N	21,35,08					
		M_{1N}	21,36,00					
		M_{2N}	21,40,40					
		M_{3N}	21,45,50					
		F_N	22,06,50					
24-2	Oct. 13	Quake lost due to instrumental defect.						Quake lost due to instrumental defect.
24-3	Oct. 17	P_N	03,38,40	11 11			2400	$\Delta_1 = 2400$ km.
		S_N	03,43,05					
		L_N	03,44,10					
		M_{1N}	03,44,50					
24-4	Oct. 18	P_N	23,12,47	15			2400	7.1
		(?) PR_N	23,14,30					
		S_N	23,18,55					
		L_N	23,22,40					
		M_{1N}	23,26,00					
		M_{2N}	23,29,05					
F_N	24,05,00							
24-5	Oct. 19	e_N	15,51,00	10			3700	3700 km. clock cor- rection +10 sec
		e_N	15,53,15					
		L_N	15,55,40					
		M_{1N}	15,56,05					
		F_N	16,09,20					
24-6	Nov. 1,	$1P_N$	05,02,13	20 15			3700	
		S_N	05,07,45					
		L_N	05,12,40					
		M_{1N}	05,14,20					
		M_{3N}	05,17,35					
F_N	05,28,00							
24-7	Nov. 20	e_N	20,48,00	20 20				clock correction +9 sec
		e_N	21,03,50					
		M_{1N}	21,05,10					
		M_{2N}	21,08,00					
		M_{3N}	21,12,55					
		F_N	21,18,50					

*Put all these
figures in N column*
~~1.10*~~
~~1.1/1*~~ 7.

20^*
 $15^* 1.5$

5^*
 0.5
 0.55^*

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Instrument: Wiechert horizontal, 80 kg. Foundation: Stockbridge Dolomite (Silurian)
MILNE-SHAFF Fordham Gneiss

From October 5, 1924 to October 31, 1924 No.

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A _E	A _N		
0	Oct. 6		6 ^h to 15 ^h hrs.	Continuous micros.				<i>Continuous micros.</i>
24-1	Oct. 8	e_N I _{1N} M _{1N} M _{2N} M _{3N} F _N	20, 47, 0 21, 35, 8 21, 36, 0 21, 40, 40 21, 45, 50 22, 5, 50	22 14		7.6		
	Oct. 11		3 ^h to 4 ^h 13 ^m & 13 m.	Continuous micros				<i>Continuous micros.</i>
24-2	Oct. 13		quake lost due to intersecting lines on gram.					<i>Quake lost, due to intersecting lines on gram.</i>
	Oct. 16		4 ^h to 7 ^h hrs.	Continuous micros.				<i>Continuous micros.</i>
24-3	Oct. 17	P _N S _N L _N M _{1N}	3, 38, 40 3, 43, 5 3, 44, 10 3, 44, 50	11 11			2400 Km.	$\Delta_1 = 2400 \text{ km.}$
24-4	Oct. 18	P _N PR _N (?) Pr(?) S _N L _N M _{1N} M _{2N} F _N	23, 12, 47 23, 14, 30 23, 18, 55 23, 22, 40 23, 26, 0 23, 29, 5 24, 5, 0	15		7.1		
24-5	Oct. 19	e _N e _N L _N M _{1N} F _N	15, 51, 0 15, 53, 15 15, 55, 40 15, 56, 5 16, 9, 20	10		11.9		
	Oct. 21		Continuous micros all day.					<i>Continuous micros all day.</i>

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MILNE-SHAW PHOTOGRAPHIC

Fordham Gneiss

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

From November 1, 1924 to November 30, 1924

North-South

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A_N mm.	A_N μ		
24-6	Nov. 1	P_1	5,02,26		trace		3700 kms. $\Delta_1 = 3700$ km.	
		S_N	5,07,58		comp. earth			
		L_N	5,12,53					
		M_1	5,14,33	20	2.20*	38		
		M_2	5,15,28	20	2.20*	38		
		M_3	5,17,48	15	1.5*	17		
		F_N	5,23,15					
	Nov. 2	Micros.	17 ^h to 23 ^h 17 hrs. to 23 hrs.				Small	
	Nov. 6	"	0 ^h to 17 ^h hrs.				High wind.	
	Nov. 8	"	2 ^h to 7 ^h hrs.		1.2/2*			
	Nov. 14	"	9 ^h to 15 ^h hrs.					
24-7	Nov. 20	e_N	20,48,09					
		e_N	21,00,59					
		M_1	21,05,19	20	6*.6	11		
		M_2	21,08,09	20	6*.6	11		
		M_3	21,13,04					
		F_N	21,18,59					

Put all these figures in N column

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

Instrument: ~~WIECHERT~~ ^{MILNE-SHALE PHONOGRAPH} horizontal, 80 kg. Foundation: Stockbridge Dolomite (Silurian)

From Dec. 8, 1924 to Dec. 27, 1924. No. _____

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					NA- 3 comp. trace mm.	earth mm.		
24-8	Dec. 8	i_N 1 i_N 12 i_N 13 M_{1N} 11 M_{2N} 12	23,03,02 23,05,02 23,26,32 23,26,37 23,42,02					
	Dec. 9	micros, continuous,	very irregular form	11 to 13 sec				Storm. Micros, continuous, very irregular form
	Dec. 20	micros.	3^h to 4^h hrs.	15 & 20	1.2 1.5 1.5*			Micros.
	Dec. 22	"	all day	two distinct periods.	.5 to 1.5 35 to 38 & 6 sec. 35 to 38; 6	1.5 5* to 15*		Micros, all day. Two distinct periods.
	Dec. 25	"	4^h to 15^h hrs.					Micros. Very irregular.
34-9	Dec. 27	i _N L _N M _{1N} M _{2N} M _{3N} P _N	11,34,48 11,44,55 11,45,21 11,46,16 11,47,23 12,25,03	13 12 14	1.6* 1.5* .6*	16* 5.3 15* 6*		

Put all these figures in the 11 column

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

Instrument: ~~MILNE-SHAW~~ PHOTOGRAPHIC
Wiechert horizontal, 80 kg. Foundation: Stockbridge Dolomite (Silurian)

Dec. 28, 1924

Dec. 30, 1924

From to No.

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					trace mm.	earth μ		
24-10	Dec. 28	P_N	23,07,54				9000 kms.	$\Delta_1 = 9000 \text{ km.}$
		S_N	23,18,19					
		S_R	23,27,09					
		L_N	23,38,04	38	11* 1.1	55		
		M₁	23,44,29	25	14* 1.4	42		
		M₂	23,47,34	20	16* 1.6	32		
		M₃	23,52,34	"	30* 3.	60		
		M₄	23,56,04	"	15* 1.5	30		
		J_N	0,17,49	22	4* .4	11		
		F_N	0,31,04					Trace amp- litude de- creases gradually from 1.5 to 0.4 mm.
	Dec. 29	micros.		4 sec.				Put in Remarks column. Micro. Very regular periodic occurrence, two minutes duration, with half minute intervals between.
24-11	Dec. 30	e_N	3,28,31					
		L_N	3,29,24	14	4* .4	4.8		
	Dec. 30	e_N	12,54,14	less than one sec.				
		e_N	13,02,41					
		L_N	13,07,42					
		M_N	13,09,40	16	6* .6	9.		
		F_N	13,14,25					
CONSTANTS OF MILNE-SHAW								
Magnification				150				
Period				12 sec				
Damping ratio				20 : 1				
Sensitivity to tilt.				Displacement of 1" arc causes deflection of 26 mm				

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MILNE-SHAW, PHOTOGRAPHIC

From Dec. 28, 1924 to Dec. 30, 1924 No. N-S comp.

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A_E	A_X		
					xx	xx		
					trace mm	earth μ		
24-10	Dec. 28	$1P_N$	23,07,50					
		$1S_N$	23,18,15					
		SR_N	23,27,05					
		L_N	23,38,00	38	1.1	11*		Clock cor- rection +4
		M_{1N}	23,44,25	25	1.4	14*		
		M_{2N}	23,47,30	20, 1.6	1.6	16*		
		M_{3N}	23,52,30	20	3.	30*		
		M_{4N}	23,56,00	20	1.5	15*		
		Ca_N	00,17,45,	22	0.4	4*		
		F_N	00,31,00					
	Dec. 30	e_N	03,28,27					
		L_N	03,29,20	14	0.4	4*		
24-11	Dec. 30	e_N	12,54,10	less than				
		e_N	13,02,37	1 sec				
		L_N	13,07,39					
		M_{1N}	13,09,10	16	0.6	6*		
		$F_N^{(2)}$	13,43,30					

*Put in
N column*