

FORDHAM UNIVERSITY

April 6, 1925

In order to preserve the continuity of the regular monthly reports, the data on the earthquake of March 1, 1925, for which a special bulletin was issued, is being repeated in the March Bulletin enclosed herewith.

Certain changes have been made in this report.

First: The time of "S" (obscure on both grams) in the first report was given as; 02,22,07.

The correct value for this station is most probably; 02,22,20; taken at first for L.

Secondly: The value of M in the first report was the greatest visible maximum; the true maximum being lost, due to the attenuation of the line during the period of greatest disturbance.

By further intensification of the photographic record, what seems to be the turning point of the true maximum has been found at 02,23,18, with a trace amplitude of 69.5 mm. This gives the maximum ground movement as 289 microns.

Note on Report for January 1925

Errata: On second page (listing quakes from Jan. 14 to Jan. 30,) for 1924 read 1925.  
Under quake 25-3, (Kuril Is.) for Jan. 17, read Jan. 18.

# 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: <sup>MILNE-SHAW PHOTOGRAPHIC</sup> Mean Greenwich, midnight to midnight. Nomenclature: Göttingen

Instrument: Wiechert horizontal, 80 kg. Foundation: Stockbridge Dolomite (Silurian)  
 Jan. 1, 1925 Jan. 15, 1925

From ..... to ..... No. ....

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					trace mm	earth µ		
25-1	Jan. 5	Pi(?)	21,52,52	11 11	0.5	4.2		Magnifi- cation of Milne- Shaw: 150
		L	21,57,27					
		M	21,59,17					
		Ca	22,04,57					
25-2		F	22,10,27	9.5	0.6	4.7		These ap- pear to be two quakes tho' separ- ated only by less than two minutes. This dis- turbance recorded on E-W comp. of Wiech- ert mach- ine only.
		e	22,12,07					
		L	22,15,57					
		M	22,17,02					
25-01	Jan. 7	F	22,29,37	1.2	0.4	6.	Shock reported in north New Eng- land.	
		e	13,08,26					
		L	13,08,38					
		M	13,08,42					
	Jan. 10							Magnification of Milne-Shaw reset to 250.
					N-S	N-S		
	Jan. 12				0.6 to 1.2			Irregular onsets
	Jan. 13	i	0,27,40		1.2			Followed by irregular waves and continued onsets as on day previous; heavy micros.
		i	16,44,50					

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## Monthly Seismological Report

1925

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



Time: Mean Greenwich, midnight to midnight. Nomenclature: Göttingen  
MILNE-SHAW, N-S COMP.

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

Jan. 14, 1925

Jan.

From ..... to ..... No. ....

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					N	S comp.		
25-3	Jan. 17	P <sub>i</sub>	12,18,16		1.2		8960 kms	Kuril Islands  Maxima decreasing in intervals of 3 minutes, until, 13,28,0
		S <sub>i</sub>	12,28,25	17	7.	58.3		
		SR	12,33,46	14	3.	19.4		
		L	12,47,00	20	3.4			
		M <sub>1</sub>	12,55,05	18	3.5	33.4		
		M <sub>2</sub>	13,00,15	17	5.	43.5		
		M <sub>3</sub>	13,01,42	15	5.	35.6		
		M <sub>4</sub>	13,03,35	15	4.6	32.8		
		M <sub>5</sub>	13,04,30	16	4.6	38.8		
		Ca	13,28,05	21	2.	25		
		F	13,59,00					
	Jan. 25		Magnification of Milne Shaw set to 150.					
25-4	Jan. 26	P <sub>i</sub>	19,08,58				3550 kms.	
		S <sub>i</sub>	19,14,18	22	1.5			
		L	19,18,35					
		M <sub>1</sub>	19,21,38	20	2.6	29.6		
		M <sub>2</sub>	19,23,38	20	2.4	27.6		
		M <sub>3</sub>	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 <sub>e</sub> (?)	17,55,42					P doubtful
		L	18,02,40	26	1.	18.9		
		M <sub>1</sub>	18,09,32	20	1.1	11.5		
		M <sub>2</sub>	18,14,15	15	1.	7.1		
		M <sub>3</sub>	18,16,05	15	1.	7.1		
		M <sub>4</sub>	18,19,35	15	1.	7.1		
		F	18,20,000					

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

MILNE-SHAW PHOTOGRAPHIC  
Time: Mean Greenwich, midnight to midnight. Nomenclature: Göttingen

Instrument: Wiechert horizontal, 80 kg. Foundation: Stockbridge Dolomite (Silurian)  
Feb. 1, 1925 Feb. 7, 1925

From ..... to ..... No. ....

No.	DATE	PHASE	TIME h. m. s.	PERIOD	N AMPITUDE		DISTANCE	REMARKS
					trace	earth		
25-7	Feb. 1,	e	05,48,24					
		e	06,07,11	33				
		M <sub>1</sub>	06,20,30	15	1.4	10.		
		M <sub>2</sub>	06,25,00	15	0.7	5.		
		M <sub>3</sub>	06,27,16	14	0.8	5.5		
		F	06,50,00					
25-8		Fe	21,25,36					
		Si	21,27,29					
		L	21,28,20					
		M	21,28,25	12	1.5	3		
		F	21,33,25					
25-9	Feb. 2,	e	12,26,25	20	0.4			these small waves continuing till 12,44,00.
25-10		e	13,51,20					
		e	14,03,00					
		L	14,15,00					
		M <sub>1</sub>	14,20,42	19	0.6			
		M <sub>2</sub>	14,24,42	17	1.1			
		M <sub>3</sub>	14,30,00	13	1.			
25-11		(?) P <sub>1</sub>	20,10,11					7160(?) P and S from Wiechert lost on M - S
		(?) S <sub>e</sub>	20,18,49					
		L	20,32,44					
		M <sub>1</sub>	20,27,24	20	1.7			
		M <sub>2</sub>	20,42,28	15, 1.2	1.2			
		M <sub>3</sub>	20,47,30	15	3.			
		M <sub>4</sub>	20,50,34	16	1.9			
		F	21,47,00					
	Feb. 6,	Le	13,50,00	28	0.4			continuing till 15hrs. when record was changed,
	Feb. 7	Le	00,19,58	43	0.4			continuing till 00,51,00

# 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: ~~LITHOGRAPHIC~~ Mean Greenwich, midnight to midnight. Nomenclature: Göttingen

Instrument: ~~Feb. 8, 1925~~ Wiechert horizontal, 80 kg. Foundation: ~~Feb. 1925~~ Stockbridge Dolomite (Silurian)

From Feb. 8, 1925 to Feb. 28, 1925 No. \_\_\_\_\_  
N - S comp,

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					$\frac{m}{A_E}$	$\frac{m}{A_N}$		
25-12	Feb. 8	Pe	14,53,22			<i>M</i>	6220 kms.	Record badly obscured by micros.
		Se	15,01,10					
		L	15,10,50					
		M <sub>1</sub>	15,13,30					
		M <sub>2</sub>	15,17,15	16	2.1	14		
		M <sub>3</sub>	15,26,35					
		F	16,08,00					
	Feb. 10	Long period micros						
	Feb. 11			60 sec?				
25-13	Feb. 16	Micros						
		L	18,09,05					
		M <sub>1</sub>	18,14,44	21	2.	22		
		M <sub>2</sub>	18,35,53	22	1.2			
		M <sub>3</sub>	18,39,55	20	1.2			
	Feb. 18	Micros		22	0.9			
			35	1.1				
25-14	Feb. 20	Micros all day						
		L	01,45,55					
		M <sub>1</sub>	01,47,45	26	1.1			
		M <sub>2</sub>	01,50,20	21	1.6			
		M <sub>3</sub>	01,59,26	16	2	16		
		Record changed at 02,01,40						
25-15	Feb. 23	P	00,02,19				5250	Alaska
		PR <sub>1</sub>	00,04,22					
		SI	00,09,14	6	3.4	14		
		SR <sub>1</sub>	00,13,01					
		L	00,17,23					
		M <sub>1</sub>	00,18,53	8	25.	100.7		
		M <sub>2</sub>	00,22,23	15	27.5	182.		
		M <sub>3</sub>	00,24,33	15	11.5			
		M <sub>4</sub>	00,28,08	14	8.			
		Ca	02,14,13					
	F	02,24,00						
	Feb. 26	Micros beginning at 14,05,00, continuing till following day						
	Feb. 27	Micros reaching maximum amplitude of 4.8 mm. period: 23 sec? (irregular)						

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



Latitude, 40° 51' 47" N. Longitude, 73° 53' 08" W. Elevation above sea, 26 meters.

Time: Mean Greenwich, midnight to midnight.

Instruments: { Milne-Shaw, Photographic.  
 { Wiechert horizontal, 80 kg.

Foundation: { Milne-Shaw pier, Stockbridge Dolomite.  
 { Wiechert pier, Fordham Gneiss.

### INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD $T_0$	MAGNIFICATION $V$	DAMPING RATIO $\epsilon$	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw	12	250	20:1	= 47 mm	8 mm. per min.
N - S					
E - W					8 mm. per min.
Wiechert	5	56	7:1		13 mm. per min.
N - S					
E - W	3.8	82	5:1		13 mm. per min.

From March 1, 1925

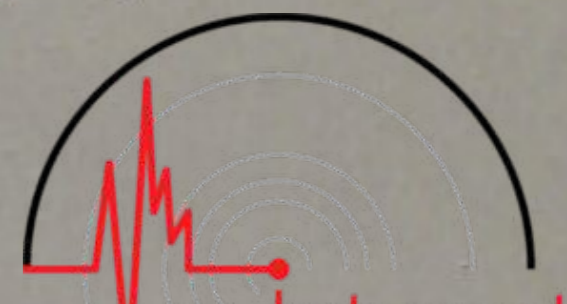
to March 2, 1925

No. ....

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS	
					$A_E$	$A_N$			
					$\mu$	$\mu$			
25-16	Mar. 1	iP <sub>N</sub>	02,21,02				710		
		eS <sub>N</sub>	02,22,20				Canada, Central		
		(?)L	02,22,30				St. Lawrence		
		M <sub>1</sub>	02,23,18	6		289	district.		
		M <sub>2</sub>	02,27,08	6		75			
		M <sub>3</sub>	02,28,38	8		52			
		M <sub>4</sub>	02,31,00	7					
		M <sub>5</sub>	02,31,37	7					
		M <sub>6</sub>	02,34,40	14					
		M <sub>7</sub>	02,44,40	7		15		Record	
					02,51,20				changed
				Ca	03,09,38	11			New record.
				F	04,33,00				
			Mar. 2		20,11,02				
		i	20,32,04						
		L	20,44,37	8					
		i	20,52,12						
		L	20,56,12	23	continuing irregularly till				
			21,18,00		2 to 4 mm. (traces)				

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



No. International  
Seismological  
Centre

From March 2, 1925 to March 31, 1925

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub> μ	A <sub>N</sub> μ		
	Mar. 4		3 to 14 hrs,	micros.				
	Mar. 5		6 to 15 "	"				
	Mar. 9		6 hrs.	60			Long period micros.	
	Mar. 12		7 hrs. till 15hrs.	90 18			2 types, with smaller period superimposed	
	Mar. 14	i F	17,53,08, 23,11,00	18			Followed by irregular waves 1.7mm(trace)	
	Mar. 15	L	00,11,01	25			1.7mm(trace) Several sets of L waves follow, but obscured by micros.	
25-17	Mar. 16	L M <sub>1</sub> M <sub>2</sub> M <sub>3</sub> F	15,41,07 15,44,30 15,52,42 15,58,57 16,57,55	25 17 18			P & S lost.	
	Mar. 17	L	06,56,00				Very irregular(90 sec period) undulations	
	Mar. 18	F	02,00,00					
25-18	Mar. 19	eP (?)i L M <sub>1</sub> M <sub>2</sub> F	17,13,14 17,27,54 17,52,52 17,58,32 18,40,44 20,49,00	20 22			15 also several smaller maxima. Intermittent maxima recurring till end of record.	
25-19	Mar. 22	eP eS (L)? M <sub>1</sub> M <sub>2</sub> M <sub>3</sub> M <sub>4</sub> M <sub>5</sub> F	08,02,33 08,13,51 08,33,28 08,45,51 08,48,22 08,56,09 09,13,15 09,14,29 10,30,4	21 22 18 15 17			10440 M <sub>4</sub> & M <sub>5</sub> via antipodes.	
	Mar. 27	e L F	06,30,56 06,31,56 06,45,00	12			0.5mm(trace)	
25-20	Mar. 29	1P 1S L M <sub>1</sub> M <sub>2</sub> F	21,19,07 21,24,36 21,28,56 21,33,11 21,35,46 22,37,00	12 15 12			3530 Canal Zone Panama.	

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



Latitude  $40^{\circ} 51' 47''$  N Longitude  $73^{\circ} 53' 08''$  W. Elevation above sea 23.9 metres  
 MILNE-SHAW PHOTOGRAPHIC

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

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

Interpretation of Seismogram

From registered by N - S component of Milne-Shaw Seismograph No. ....

N - S comp.

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					trace mm A <sub>E</sub>	earth mm A <sub>N</sub>		
						u		
								Quake of March 1, 1925 felt along East coast of U.S. and Canada.
								Constants of Milne-Shaw instrument. Period: 12 sec. Static magnification: 250. Damping ratio 20;1
25-16	Mar. 1,	1P	02,21,02				590(?) Kms.	
		(?) S	02,22,07					
		L	02,22,20					
		M <sub>1</sub>	02,22,52	6	16			
		M <sub>2</sub>	02,24,15	7	28	116		
		M <sub>3</sub>	02,27,08	6	18			
		M <sub>4</sub>	02,28,38	8	12			
		M <sub>5</sub>	02,31,00	7	9			
		M <sub>6</sub>	02,31,37	7	9			
		M <sub>7</sub>	02,34,40	14	10			
			02,44,40	6 to 7				3.5 record changed
			02,51,20	10 to 11				2. new record begins.
		Ca	03,09,38	11	1.9			
		F	04,33,00					

This shock was sensibly felt by a number of individuals at Fordham University. It was described as a slight swaying motion with an almost imperceptible rotational component, such as to excite a feeling of nausea. Drop lights, about 4 ft. in length were seen swinging thru an arc of over an inch.

Any observatory more than usually interested in the study of this quake may obtain a photographic reproduction of the Milne-Shaw record, if assurance is had of its return.

J.S. O'Connor, S.J.



# 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)  
SPECIAL: Quake of Mar. 1st. 1925

From ..... to ..... No. ....

No.	DATE	PHASE	TIME h. m. s.	PERIOD	AMPLITUDE		DISTANCE	REMARKS
					A <sub>E</sub>	A <sub>N</sub>		
								Quake as recorded by Wiechert 80 kgm. inverted pendulum Seismograph, recording, N. S. & E. W. components. Constants determined Feb. 1st. 1925
		N - S	Period:	5 sec.	static magnification:	56	damping	7:1
		E - W	"	3.8 "	"	"	82	damping 5:1
	Mar. 1,	ePN	02,21,04	1.8			550(?) km.	
		iP E	02,21,01	2.				
		(?) PR	02,21,32	1.4				
		eSN	02,22,05	1.5				
		oSE	02,21,52	2.				
		LN	02,22,33	1.8				
		LE	02,22,39					
		M <sub>1</sub> N	02,23,08	1.8	84mm			
		M <sub>1</sub> E	02,23,17	3.	60mm			At this point amplitude
		M <sub>2</sub> N	02,23,15		60mm			Of E - W comp. went be-
		M <sub>3</sub> N	02,23,39	4.				yond range of recording
			02,23,48					paper.
								here amplitude drops to 3mm.
								Thereafter regular recurring maxima every 8 sec.
								with periods of 0.5 sec and of decreasing ampli-
								tude, from 2mm to 0.4mm., till 02,29,00
		F	02,33,45					

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Wiechert horizontal, 80 kg.

Foundation: { Milne-Shaw pier, Stockbridge Dolomite.  
Wiechert pier, Fordham Gneiss.

### INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD T <sub>0</sub>	MAGNIFICATION V	DAMPING RATIO ε	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw					
N - S	12	250	20:1	= 47	8 mm. per min.
E - W					8 mm. per min.
Wiechert					
N - S	5	56	7:1		13 mm. per min.
E - W	3.8	82	5:1		13 mm. per min.

From April 1, 1925 to April , 1925. No 3

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub>	A <sub>N</sub>		
					μ	μ		
25-21	Apr. 11	P	11,00,57				Uncertain clock correction record obscure	
		L	11,47,32					
		M <sub>1</sub>	11,51,47	22		20		
		M <sub>2</sub>	11,57,19	20		16		
		M <sub>3</sub>	12,02,24	24		25		
		M <sub>4</sub>	12,05,27	18		21		
		M <sub>5</sub>	12,11,42	18		21		
		F	12,27,00					
25-22	Apr. 16	e	20,11,25					
		SR <sub>1</sub> (?)	20,22,09					
		L	20,43,38					
		M <sub>1</sub>	20,55,00	32		34		
		M <sub>2</sub>	20,59,27	21		37		
		M <sub>3</sub>	21,02,08	26		60		
		M <sub>4</sub>	21,06,19	18		28		
		F	22,07,00					
	Apr. 18	Micros	3-13 hrs.	60sec.				
	Apr. 20	"	all day	2 sec.				
25-23	Apr. 25	i	21,52,50					
		i	21,54,45					
		i	22,01,09					
25-24	Apr. 26	e	09,07,40					
		L	09,36,12					
		M <sub>1</sub>	09,48,20	16				
		M <sub>2</sub>	09,59,05	16		small.		
		F	10,30,00					

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Foundation: { Milne-Shaw pier, Stockbridge Dolomite.  
 { Wiechert pier, Fordham Gneiss.

### INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD $T_0$	MAGNIFICATION $V$	DAMPING RATIO $\epsilon$	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw					
N - S	10	250	20:1	= 32 mm.	8 mm. per min.
E - W					8 mm. per min.
Wiechert					
N - S	5	56	7:1		13 mm. per min.
E - W	3.8	82	5:1		13 mm. per min.

From May 1, 1925

to May 6, 1925

No. 4

From ..... to ..... No. ....

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					$A_E$	$A_N$		
					$\mu$	$\mu$		
25-25	May 3	ePR(?)	17,43,41				(14500)	
		i	17,44,36	5		10		
		SR(?)	18,02,01					
		L	18,27,30	35				
		M <sub>1</sub>	18,36,03	24		52		
		M <sub>2</sub>	18,40,13					
		M <sub>3</sub>	18,47,08					
		Ca	19,32,21					
		F	19,38,00					
25-26	May 3	eP	23,18,46				(15600)	
		SR(?)	23,40,21					
		SR <sub>2</sub>	23,45,26					
	May 4	L	00,02,11					
		M <sub>1</sub>	00,21,13	19		21		
		M <sub>2</sub>	00,23,41	17		18		
		M <sub>3</sub> <sup>v</sup>	00,25,46	17				
		M <sub>4</sub>	00,30,31	16				
		Ca	01,17,00					
		F	01,39,00					
25-27	May 5	eP	10,26,??					Record light
		M	11,16	25		30		struck
		M	11,21	23		25		secondary lost
		M	11,29	21				
		F	12,31					
25-28	May 5	ePR(?)	23,42,07					
		i	23,43,55	11		10		
	May 6	L	00,19,16					
		M <sub>1</sub>	00,35,41	27		29		
		M <sub>2</sub>	00,46,01	25				
		F	01,35,00					

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report

From May 7, 1925 to May 31, 1925



No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS	
					A <sub>E</sub> μ	A <sub>N</sub> μ			
	May 9 " 10	Micros " till	9hrs. 119hrs.	25 sec.		1,4mm (trace)			
	May 12,	Micros " i	12,31,00 13,35,50 15,57,00	65 sec. 22 "					
25-29	May 12	e i i L M F	18,10,35 18,13,35 18,22,42 18,52,32 18,54,30 19,06,00	11		small			
25-30	May 15	iP iS L M F	12,07,49 12,16,33 12,30,57 12,37,27 13,00,37	18		10	7300 absolute time very doubtful due to uncertain clock correction Press reports from Armenia.		
25-31,	May 19	P	12,43,??	Quake lost due to excessive tilt,					
25-32	May 22	M waves just discernible				" "	" "		
	May 24 May 25	Heavy short period micros, both days 4 sec.							
					J.S.O'C., S.J.				

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



Latitude, 40° 51' 47" N. Longitude, 73° 53' 08" W. Elevation above sea, 26 meters.

Time: Mean Greenwich, midnight to midnight.

Instruments: { Milne-Shaw, Photographic.  
 { Wiechert horizontal, 80 kg.

Foundation: { Milne-Shaw pier, Stockbridge Dolomite.  
 { Wiechert pier, Fordham Gneiss.

### INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD $T_0$	MAGNIFICATION $V$	DAMPING RATIO $\epsilon$	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw	10	150	20 : 1	18 mm.	
N - S				=	8 mm. per min.
E - W					8 mm. per min.
Wiechert					
N - S	6.3	81.4	7.5 : 1		13 mm. per min.
E - W	6.2	65.5	16 : 1		13 mm. per min.

From June 1, 1925 to June 9, 1925 No.         

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					$A_E$ $\mu$	$A_N$ $\mu$		
25-33	June 3	iPR <sub>1</sub> P <sub>c</sub> P <sub>c</sub> S M <sub>1</sub> M <sub>2</sub>	04,55,45 56,44 05,47,55 55,55,	8 10 28 22			(15300) Record ob- scure	
25-34	June 4	e eL M <sub>1</sub> M <sub>2</sub> F	01,22,36 30,00 35,42 38,02 55,47					
25-35	June 4	L M <sub>1</sub> M <sub>2</sub> M <sub>3</sub>	12,22,30 26,04 27,06 30,02				early phase: lost in micros	
25-36	June 9	iP' ? iPR <sub>1</sub> iPS iSR <sub>1</sub> SR <sub>2</sub> L M <sub>1</sub> M <sub>2</sub> M <sub>3</sub> M <sub>4</sub> M <sub>5</sub> F	14,02,24 03,35 12,34 19,43 20,53 40,30 51,30 53,34 57,00 15,02,02 03,34 16,14,00	2 13 7 16 20  20 19 16 16 18			12100	

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



From June 10, 1925 to June 30, 1925

No.                      International Seismological Centre

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub> μ	A <sub>N</sub> μ		
25-37	June 28	eP	01,26,59	1			3048	
		i	27,27	6				
		iS	31,40	4		12		
		SR <sub>1</sub>	32,11	7		44		
		L	34,10	12				
		M	37,48	7		474		
		i	02,15,54	2				
		i	17,03	11				
		i	19,07	6				
		M	20,03					
		M <sub>1</sub>	20,41	8		50		
		M <sub>2</sub>	20,58	8		60		
		M <sub>3</sub>	22,31					
								appears as second shock of same quake
25-38	June 29	eP	14,49,40				4000	Both P and S ill defined
		eS	55,18					
		SR <sub>1</sub>	57,32					
		L	59,46	18		40		
		M	15,01,04					
		M <sub>1</sub>	02,20	18		222		
		M <sub>2</sub>	04,04	11		80		
		M <sub>3</sub>	05,23	12		80		

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



From July 1, 1925 to July 31, 1925.

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub> μ	A <sub>N</sub> μ		
5-39	July 4	e	09,37,22					
		e	47,35					
		L	10,09,20					
		M <sub>1</sub>	15,58	23		23		
		M <sub>2</sub>	21,30	20				
		M <sub>3</sub>	26,00	19				
		M <sub>4</sub>	32,55	19				
	F	11,11,08						
5-40	July 7	iP	14,19,18	6			4100	
		iPR <sub>1</sub>	20,33	6				
		S	25,00	11		21		
		i	29,22					
		L(?)	30,40					
		M	32,12					
		M <sub>1</sub>	33,08	10		117		
		M <sub>2</sub>	34,41	9		40		
		i	15,15,35	9				also appears as 2d. shock of same quake
		i	16,39					
		L	17,12	16				
		M <sub>1</sub>	20,19	14		16		
		M <sub>2</sub>	21,58	14		11		
M <sub>3</sub>	23,29	15		14				
	F	16,27,38						
25-41	July 7	iP	17,49,06	4			2944	
		PR <sub>1</sub>	51,33	14				
		eS	53,37					
		L	54,46					
		M <sub>1</sub>	57,43	17		small		
		M <sub>2</sub>	18,01,42	18				
		M <sub>3</sub>	06,12					small onsets continu-
		F	23,48,00					ing until F
5-42	July 8	eP	11,23,00				3050	
		eS	37,42					
		eL	41,50					
		M <sub>1</sub>	44,10	16		small		
		M <sub>2</sub>	45,22	13				
		F	12,37,00					

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



Latitude, 40° 51' 47" N. Longitude, 73° 53' 08" W. Elevation above sea, 26 meters.

Time: Mean Greenwich, midnight to midnight.

Instruments: { Milne-Shaw, Photographic.  
 { Wiechert horizontal, 80 kg.

Foundation: { Milne-Shaw pier, Stockbridge Dolomite.  
 { Wiechert pier, Fordham Gneiss.

### INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD T <sub>0</sub>	MAGNIFICATION V	DAMPING RATIO ε	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw N - S	10	150	20 : 1	= 18	8 mm. per min.
E - W					8 mm. per min.
Wiechert N - S	6.3	81.4	7.5 : 1		13 mm. per min.
E - W	6.2	65.5	16 : 1		13 mm. per min.

From Aug. 1, 1925

to Aug. 18, 1925

From ..... to ..... No. ....

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS	
					A <sub>E</sub> μ	A <sub>N</sub> μ			
25-43	Aug. 7	O	07,47,50	11			3800	Lost in hr. mark.	
		eP	07,54,55						
		iPR <sub>1</sub>	.55,57						
		S	08,00,20?						
		SR <sub>1</sub>	03,02	10					11
		SR <sub>2</sub>	03,55						
		L	07,15						
		M <sub>1</sub>	08,32						
M <sub>2</sub>	13,28	6	7						
M <sub>3</sub>	15,12	7	8						
F	09,59,00								
25-44	Aug. 11	e	06,28,50	non periodic				trace 2.2 mm	
		i	32,08						
		i F	36,05 43,00						
25-45	Aug. 18	e	04,11,28	4					
		L	04,15,22	8					
25-45	Aug. 18	e	05,43,55	15				small	
		L	05,54,52						
		M	06,00,00						
		M <sub>2</sub>	02,08						19
		M <sub>3</sub>	04,22						15
F	06,55,00								



# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



From Aug. 19, 1925 to Aug. 31, 1925

No. \_\_\_\_\_

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub> μ	A <sub>N</sub> μ		
25-47	Aug. 19	O	12,07,54				7835	
		iP	12,19,06					
		FR <sub>2</sub>	23,40					
		iS	28,23	10		13		
		PS	29,16					
		SR <sub>1</sub>	33,01					
		SR <sub>2</sub>	36,23	19		75		
		L	40,10	38				
		M	44,48	21				
		M <sub>1</sub>	46,32	19		-137		
		M <sub>1</sub>	47,20	15		1100		
		M <sub>2</sub>	52,11			114		
		M <sub>3</sub>	58,00			90		
		F	15,22,00					
25-48	Aug. 29	e	22,48,42				Wichert only	
		L	33,20					
		M <sub>1</sub>	55,00					
		M <sub>2</sub>	56,10			40		
		F	23,23,00					



# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



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Foundation: { Milne-Shaw pier, Stockbridge Dolomite.  
Wiechert pier, Fordham Gneiss.

### INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD T <sub>0</sub>	MAGNIFICATION V	DAMPING RATIO ε	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw					
N - S	12	150	20 : 1	= 24.6	8 mm. per min.
E - W					8 mm. per min.
Wiechert					
N - S	6.3	81.4	7.5 : 1		13 mm. per min.
E - W	6.2	65.5	16 : 1		13 mm. per min.

From Oct. 1, 1925 to Oct. 13, 1925 No. \_\_\_\_\_

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub>	A <sub>N</sub>		
25-51	Oct. 5	O	04,09,05				3110	
		iP	04,15,12					
		iPR <sub>1</sub>	16,01					
		i	16,30					
		iS	20,04	10		37		
		SR <sub>1</sub>	21,13	13		35		
		L	23,27	19				
		M	26,22					
		M <sub>1</sub>	27,33	20		54		
		M <sub>2</sub>	29,32					
		F	05,43					
25-52	Oct. 13	O	17,40,22				4600	
		iP	17,48,23					
		i	48,47					
		PR <sub>1</sub>	49,46					
		PR <sub>2</sub>	50,40					
		S	54,35	11		160		
		SR <sub>1</sub>	57,19					
		SR <sub>2</sub>	57,42					
		L	58,52					
		M <sub>1</sub>	59,47	14		130		True M lost in hr. mark
		M <sub>2</sub>	18,01,52	14		78		
(?F)	19,30					Record changed.		

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



From Oct. 14, 1925 to Oct. 31, 1925

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS		
					A <sub>E</sub> μ	A <sub>N</sub> μ				
25-53	Oct. 19	O(?)	10,57,57	non periodic " "			(890)?	Emersion very faint obscured by hr. mark		
		eP(?)	11,00,55							
		i	11,01,27							
		iL(?)	01,42							
		i	01,50							
		i	02,04							
		M	02,15							
		M <sub>1</sub>	03,12						10	28
		M <sub>2</sub>	04,15						8	7
		M <sub>3</sub>	06,00						8	small
		e	12,06,22							second shock
		L	12,06,42							
		M	07,20						11	small
F	12,30.									

Note: Quake 25-53 as recorded by Wiechert instrument indicates a zero angle of azimuth with the Fordham station; i.e. an entire absence of motion on E.W. component.

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



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Wiechert pier, Fordham Gneiss.

### INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD $T_0$	MAGNIFICATION $V$	DAMPING RATIO $\epsilon$	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw	12	150	20 : 1	= 24.6	8 mm. per min.
N - S					
E - W					
Wiechert	6.3	81.4	7.5 : 1		13 mm. per min.
N - S					
E - W	6.2	65.5	16 : 1		13 mm. per min.

November 1, 1925

November 9, 1925

From.....to.....No.....

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					$A_E$	$A_N$		
25-54	Nov. 1	e i F	15,26,46 27,21 32,00	8	$\mu$	$\mu$ 8		sharp impulses for 1 min., 20 s.
25-55	Nov. 9	e(?) L M F	20,09,19 10,55 11,20 21,54	14		18	(712)	

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report

From November 10, 1925

to November 1925



From ..... to .....

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub> μ	A <sub>N</sub> μ		
25-56	Nov. 10	O	13,58,41				11460	
		P	14,12,52					
		PR <sub>2</sub>	20,07					
		S <sub>1</sub> P <sub>1</sub>	22,53					
		S <sub>1</sub> P <sub>2</sub>	24,32					
		S <sub>1</sub> P <sub>3</sub>	24,52					
		PS	26,02					
		SR <sub>1</sub>	31,10					
		SR <sub>2</sub>	34,24					
		L	49,04					
		M	58,40					
		M <sub>1</sub>	15,02,47	22		145		
		M <sub>2</sub>	04,52	22		202		
		M <sub>3</sub>	07,46	19		120		
		M <sub>4</sub>	12,15	19		120		
		M <sub>5</sub>	17,12	19		98		
M <sub>6</sub>	23,34	17		69				
Ca	23,54,30				Possibly micros which obscure F.			
25-57	Nov. 13	O	12,19,28				(13500)?	
		P	12,35,00					
		P'	38,34					
		S <sub>1</sub> P <sub>1</sub>	45,20					
		S <sub>1</sub> P <sub>2</sub>	46,47					
		S <sub>1</sub> P <sub>3</sub>	52,52					
		SR <sub>1</sub>	56,32					
		SR <sub>2</sub>	59,30					
		L	13,14,15					
		M	22,22					
		M <sub>1</sub>	27,55	23		100		
		M <sub>2</sub>	30,30	19		50		
		M <sub>3</sub>	34,57	19		63		
M <sub>4</sub>	38,40	19		72				
F					Lost in micros.			
25-58	Nov. 16	O	11,53,26				4600 Wiechert only M-S not operating	
		P	12,01,26					
		S	07,37					
		L	11,38					
		M	14,34					
		M <sub>1</sub>	15,25	13		133		
F	13,00 --							

# FORDHAM UNIVERSITY, NEW YORK CITY

## Monthly Seismological Report



From November 17, 1925 to November 30, 1925

No. International Seismological Centre

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub> μ	A <sub>N</sub> μ		
25-59	Nov. 19	eP M M <sub>1</sub> F <sup>1</sup>	16,20,53 21,33 22,06 35,00	11		19	(296)	
25-60	Nov. 28	O P S	12,33,19 39,20 44,00				3150	Records changed during progress of quake, other phases lost.
25-61	Nov. 28	e e e i L M <sub>1</sub> M <sub>2</sub> Max F	16,30,18 37,52 17,02,59 10,36 18,00 21,18 28,56, till 17,56 19,31,04	19 16		9 small		

Note: Quakes Nos. 25-56, & 25-57  
 No satisfactory interpretation could be obtained with the travel-time curves usually used. The phases given on these quakes are taken from the travel-time curves of Gutenberg. Subscript "c" designates core, bar over phase letter designates refraction.

# FORDHAM UNIVERSITY, NEW YORK CITY

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Foundation: { Milne-Shaw pier, Stockbridge Dolomite.  
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### INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD T <sub>0</sub>	MAGNIFICATION V	DAMPING RATIO ε	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw					
N - S	14	250	aperodic	= 58	8 mm. per min.
E - W					8 mm. per min.
Wiechert					
N - S	6.3	81.4	7.5 : 1		13 mm. per min.
E - W	6.2	65.5	16 : 1		13 mm. per min.

From Dec 1, 1925 to Dec 30, 1925 No.

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A <sub>E</sub> μ	A <sub>N</sub> μ		
25-59	Dec. 6	e i M <sub>1</sub> M <sub>2</sub> M <sub>3</sub> F <sub>3</sub>	16, 26, 22 30, 19 30, 43 31, 49 33, 22 44, 52	7 12 8			small	
25-60	Dec. 10	O eP i iS L M <sub>1</sub> M <sub>2</sub> M <sub>3</sub> F	14, 14, 40 14, 21, 15 22, 08 26, 16 32, 37 35, 17 37, 08 40, 30 15, 19, 30 16, 29	17 14 14			3425 Micros render time of P doubtful	decreasing maxima till record changed.
25-61	Dec. 11	eL M M <sub>1</sub> M <sub>2</sub> F	01, 39, 46 47, 12 48, 14 49, 50 Lost	19 12			Irregular micros of 3 to 4 mm. trace amp. cover entire record. 52	in micros
25-62	Dec. 19	eL M M <sub>1</sub> M <sub>2</sub> Ca	16, 46, 50 49, 46 51, 54 55, 29 17, 06, 50	20 20			early phases again entirely lost in micro storm.	
	Dec. 24 25 26							Unusual micro. storm Period: 3 & 9 sec. Amp: 2 to 2.6 mm