

Fordham University

New York, N. Y.

ANNOUNCEMENT.

The new series of reports from this station begins with January 1929. The old series ended with December 1927, when the work at the station was suspended until the completion of a new vault and the installation of additional instruments. Operations were resumed January 13th 1928, in a temporary location which was occupied until ca June 15th 1928, when the new vault was ready for occupancy. Operations in the new vault began in July 1928, with the setting to work of the two Milne-Shaws and three new Galitzin-Wilip Seismographs. A description of the station will be found in the May 1928 issue of 'Instruments' published at Pittsburgh Pa., U.S.A. A description of the Galitzin Wilip instruments will be found in the March 1929 issue of the same journal.

FORDHAM UNIVERSITY

MONTHLY REPORT

JANUARY - FEBRUARY
1929

	Jan.					Feb.				
2901	13	iP	00	15 08		2907	8	eP	02	15 44
		i		18 08				eS		21 45
		i		19 08				L		23 23
		i		20 23				M		24 26
		i		21 53				F		44 -
		i		22 00						
		iS		24 53		2908	10	eP	03	44 20
		i		25 06				S		48 46
		L		28 53				L		51 16
		e		30 46				M		52 43
		M		43 00						
		F	03	40 -		2909	10	eP	15	46 16
2902	17	iP	11	48 34				S		51 39
		iS		53 34				L		55 24
		L		55 -		2910	13	M		58 32
								eP	22	24 52
2903	19	iP	02	21 30				S		29 18
		iS		26 45				L	1	31 14
		L		32 54				M		32 24
								F	23	05 -
2904	21	iP	10	44 35		2911	15	eP	08	09 15
		S _E		48 56				S		13 59
		S _N		49 24				L		18 43
		e		50 40				M		21 52
		L		53 -						
2905	24	eP	23	43 08		2912	22	eP	20	57 16
		iS		48 22				S	21	03 20
		L		50 21				L		06 27
		M		52 13				M		08 24
		F	01	04 -				F	22	30 -
2906	31	eP	18	14 12		2913	26	eP	09	16 16
		e		19 08				eS		25 34
		e		19 50				M		32 08
		L		22 36				F	10	40 -
		M		23 42						
		F		34 -						

Fordham University

MONTHLY REPORT

MARCH
1929

Year	Month	Day	Time	Location	Year	Month	Day	Time	Location
2914	Mar.	1	07 44 00	eP	2923	Mar.	21	02 43 22	eP
			46 41	S ^N				47 29	eS
			47 15	S ^E				48 37	e
			48 57	Sr ^{LN}				52 14	e
			49 30	Sr ^{LE}				53 22	L ^N
			49 44	L				54 44	L ^{FE}
			56 10	M			03 00 59	03 00 59	M ^{FE}
							03 03 44	03 03 44	M ^{FN}
							32 29	32 29	F ^N
2915	1	09 11 11		e					
		19 19		eL					
2916	9	03 02 14		e	2924	23	12 01 53	12 01 53	eL
		09 25		S			04 15	04 15	eL
		12 30		L			13 40	13 40	F
		14 40		M					
2917	9	11 30 49		e	2925	23	21 02 28	21 02 28	e
		31 02		e ^E			17 21	17 21	L
		47 25		e ^S			21 58	21 58	L
		53 07		e ^N			25 43	25 43	F
		53 56		e ^E					
		58 10		L	2926	28	03 30 14	03 30 14	e
		58 26		M			31 10	31 10	L
		13 17 --		F			55 40	55 40	F
2918	11	21 20 -		e	2927	30	16 35 10	16 35 10	e
							43 31	43 31	L
2919	12	12 41 00		e					
		42 20		e					
		44 33		e					
2920	15	18 07 01		e					
		08 12		L					
		09 39		M					
2921	19	09 42 24		e					
		43 47		L ^N					
		43 54		e					
		45 17		M ^{FE}					
		45 58		M ^{NE}					
		10 00 00		F					
2922	19	20 55 36		e					
		21 02 14		e					
		06 00		e					
		08 43		M					

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MONTHLY REPORT

APRIL - MAY
1929

	Apr.					May				
2928	6	e	01 34 38	2941	1	1P	15 50 40			
		eL	38 43			i	53 14			
2929	6	eL	04 17 10			e	16 00 25			
2930	6	e	05 11 10			e	01 10			
		eL	21 -			e	01 28			
2931	7	e	19 39 04			13N	01 51			
		e	40 19			e	03 40			
		e	43 14			e	04 17			
		eL	49 54			e	04 40			
		M	53 00			e	06 47			
2932	9	e	02 55 44			e	07 47			
2933	9	e	04 13 00			e	08 55			
2934	13	e	07 41 50	2942	1	e	10 47			
2935	20	e	20 - -			L	14 25			
		no	time marks	2943	2	e	21 00			
2936	21	e	12 50 03			F	22 18 34			
		eL	51 18	2944	7	L	14 15 17			
2937	23	e	00 48 40			MZ	30 00			
2938	23	e	14 05 18	2945	12	e	17 44 59			
		eL	07 05			e	09 44 01			
2939	27	e	11 46 27			e	46 38			
		e	49 27			e	50 08			
		eL	56 27	2946	17	eL	51 48			
		M	58 37			e	53 00			
		F	12 57 00	2947	18	i	54 10			
2940	27	eL	22 04 27			L	56 03			
		eL	20 25			L	00 16 45			
						M	22 00			
						L	07 00 44			
						L	11 56			
						M	18 46			
							20 36			

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MONTHLY REPORT

MAY
1929

2948	May 20	iP eS eL	05 03 42 12 30 32 00	2952	May 28	e e e eL M	00 03 38 07 00 09 16 12 30 15 00
2949	21	e e eL M F	16 53 31 17 00 28 27 29 40 11 18 15 14	2953	29	eL	14 05 30
2950	24	e e e eL M	12 06 30 11 06 17 08 18 06 20 39	2954	30	iP _E e e e e iS i e e e eL M F	09 55 30 55 57 57 57 59 51 59 59 10 04 58 05 40 07 20 13 15 15 13 18 15 29 20 13 48 -
2951	26	ePZ i i i i iS iL	22 47 30 49 31 50 23 51 01 53 43 53 47 23 00 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 ₀	MAGNIFICATION V	DAMPING RATIO ε	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw				=	
N - S					8 mm. per min.
E - W					8 mm. per min.
Wiechert					
N - S					13 mm. per min.
E - W					13 mm. per min.

From June 1, 1929 to June 9, 1929. No. ¹

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
					μ	μ		
	June 2	e _{WE}	21 56 00					
		i _N	22 02 00					
		e _{LN}	22 04 00					
	June 6	e	11 04 00					
		e _{LE}	11 10 00					
		M	11 22 00					
	June 7	e _{LE}	17 52 00					
		F	18 28 00					
	June 9	e _{NE}	8 28 35					
		i _N	8 34 00					
		M	8 32 30					

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Monthly Seismological Report

From June 9, 1929 to June 13, 1929 No. 2

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
	June 9	eNE	9 30 50		μ	μ		
		eLE	9 36 00					
		ME	9 57 00					
		MN	10 02 00					
	June 11	eN	0 48 05					
		eLN	1 20 00					
		M	1 25 00					
		M	1 27 00					
		M	1 29 00					
	June 12	eP	0 34 46					
		iP	0 35 12					
		e	0 35 39					
		e	0 37 12					
		S	0 48 36					
		e	0 51 38					
		M	1 01 40					
	June 13	iP	9 45 44					
		i	9 46 59					
		i	9 52 59					
		i	9 55 59					
		L	9 57 29					
		e	9 59 44					
		M	10 03 11					
		M	10 04 29					
		M	10 18 55					
	June 13	eLN	20 13 00					
		M	21 02 00					
		F	21 40 00					

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Monthly Seismological Report

June 13, 1929

June 17, 1929.

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

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
	June 13	e _N	23 21 00		μ	μ		
		e _{NE}	23 38 30					
		eI _{NE}	24 08 00					
		M	24 21 00					
	June 16	e	22 29 †				11344	
		e	22 45 +					
		eP _N	23 05 25					
		iP _Z	23 06 43					
		iP _E	23 06 48					
		i _E	23 06 54					
		i _N	23 09 05					
		i _{NE}	23 09 12					
		i _E	23 09 27					
		i _N	23 10 41					
		e _N	23 16 02					
		i _{NE}	23 21 12					
		i _{NE}	23 26 49					
		i _N	23 30 53					
		L _{NE}	23 43 12					
		L _N	23 44 46					
		M	23 53 00					
	June 17	e _Z	10 35 50					
		e _L	10 36 00					
		M _Z	10 38 00					
		F	11 07 00					
	June 17	e _E	23 43 25					
		eL _E	23 58 55					
		M _E	24 03 †					

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Monthly Seismological Report

From June 19, 1929 to June 26, 1929 No. 4

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
	June 19	e _E	8 09 00		μ	μ		
		eL _E	8 39 00					
		M _N	8 51 00					
		M _N	8 58 00					
		M _E	8 59 30					
	June 20	L	12 35 00					
		to						
		F	12 42 00					
	June 22	e _Z	15 48 00					
		eL _Z	15 51 45					
	June 22	e _N	16 01 30					
		e _E	16 02 00					
		eL _{NE}	16 35 30					
		M	16 40 00					
		F	17 58 00					
	June 22	eL _N	19 41 00					
		F	20 30 00					
	June 23	L	4 02 30					
		F	4 09 00					
	June 23	L	6 56 15					
		F	7 12 00					
	June 23	L	22 57 00					
		M	23 05 00					
	June 26	e _N	6 50 00					
		eL _{NE}	7 04 30					
		M	7 07 00					

FORDHAM UNIVERSITY, NEW YORK CITY

Monthly Seismological Report

From June 27, 1929 to June 30, 1929 No. 5

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
	June 27	eP	13 01 16			μ		Records changed during quake.
		iS	13 05 15					
		i _E	13 08 00					
		i _E	13 20 06					
		M	13 49 00					
		F	17 37 00					
	June 30	e _N	3 06 20					
		e _E	3 23 30					
		e _N	3 40 00					
		e _E	3 43 05					
		M _N	4 02 00					
		M _E	4 05 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.
 Galitzin, N-E-Z.

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

INSTRUMENTAL CONSTANTS

INSTRUMENT	PERIOD T_0	MAGNIFICATION V	DAMPING RATIO ϵ	SENSITIVITY 1" ARC TILT	PAPER SPEED
Milne-Shaw				=	
N - S					8 mm. per min.
E - W					8 mm. per min.
Wiechert					
N - S					13 mm. per min.
E - W					13 mm. per min.

From July 1, 1929 to July 5, 1929 No. 1

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A_E	A_N		
	July 3	eL _E	20 03 52		μ	μ		
		F	20 07 00					
	July 4	eP _{NE}	4 38 55					
		eP _Z	4 38 50					
		S _{NEZ}	4 45 55					
		eL _N	4 48 00					
		eL _E	4 50 00					
		eL _Z	4 50 30					
		M _{NEZ}	4 54 00					
	July 5	eP _{NEZ}	14 30 12					
		eS _E	14 39 00					
		iS _N	14 39 05					
		eL _{NE}	14 49 00					
		M	14 58 00					
	July 5	eP _{NEZ}	22 47 24					
		eS _Z	22 56 15					

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Monthly Seismological Report

From July 5, 1929 to July 12, 1929 No. 2

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
		iS _{NE}	22 56 20		μ	μ		
		eL _{NEZ}	23 10 05					
		M	23 20 00					
	July 5	eP _E	2 14 58					
		i P _{NZ}	2 14 58					
		iS _{EZ}	2 23 37					
		iS _N	2 24 00					
		eL _{NE}	2 35 00					
		M _N	2 43 00					
		M _E	2 46 00					
	July 6	iP	9 53 45					Readings for this quake are only approximate due to the failure of the time-recording mechanism.
		PR ₁	9 55 00					
		iS	9 59 15					
		M	10 07 00					
	July 7	iP _{NZ}	21 34 08					
		iS _{NZ}	21 43 00					
		L _N	21 54 00					
		M	22 02 00					
	July 8	eP _{NE}	17 04 20					
		L _{NEZ}	17 06 20					
		M	17 08 00					
	July 11	e	21 17 00					
		L	21 32 00					
		M	21 35 00					
	July 12	e _{NE}	16 14 02					
		M	16 20 00					
		M _Z	16 25 00					

FORDHAM UNIVERSITY, NEW YORK CITY

Monthly Seismological Report

From July 13 1929 to July 18 1929. No. 3

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
	July 13	e _Z	15 10 00		μ	μ		
		e _N	15 12 12					
		M _Z	15 13 00					
		M _N	15 27 00					
	July 14	e _{NZ}	9 10 16					
	July 14	eP _{NEZ}	9 49 01					
		iS _{NEZ}	9 59 03					
		M _E	10 25 00					
		M _N	10 28 00					
	July 17	eP _{NE}	8 49 01					
		iS _{NE}	8 57 56					
		eL _{E?}	9 08 31					
		eL _N	9 09 46					
		M _E	9 17 00					
		M _N	9 20 00					
		F	11 30 00					
	July 17	e _N	20 48 00					
		eL _{NE}	20 53 30					
	July 18	eL _{NEZ}	7 03 15					
		M _Z	7 05 00					
		M _N	7 06 30					
		M _E	7 07 30					
	July 18	L	17 34 00					
		F	18 11 00					
	July 18	eP	18 50 18					(approximate because of microseisms.)
		eS	18 56 19					

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Monthly Seismological Report

From July 18, 1929 to August 14, 1929 No. 4

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
					μ	μ		
		eL _{NEZ}	19 01 00					
		M	19 05 00					
		M _{2E}	19 08 00					
	July 30	eP _Z	7 50 04					
		eS _{EZ?}	7 55 06					
		eL _Z	7 58 00					
		M	8 00 00					
		M	8 03 30					
	Aug. 3	eL _E	15 57 25					
		M	16 08 00					
	Aug. 3	e _E	19 03 00					
		e	19 14 00					
		eL	19 19 10					
		M	19 22 00					
	Aug. 8	eP _N	13 17 26					
		PR ₁	13 22 58					
		eS	13 25 55					
		eL _E	13 52 05					
		L _N	13 53 03					
		M _E	13 57 38					
		M _N	14 07 00					
		M _{2N}	14 16 25					
	Aug. 12	d	11 26 35					Nearby shock felt in surrounding
		M	11 27 00					states.
	Aug. 14	e _Z	14 46 00					
		L	14 53 00					

FORDHAM UNIVERSITY, NEW YORK CITY

Monthly Seismological Report

From August 14, 1929 to August 19, 1929. No. 5

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
	Aug 14	eP _Z ?	19 07 24		μ	μ		
		eP _{NE}	19 08 25					
		iS _{NE}	19 13 10					
		eL	19 21 20					
		M	19 24 00					
		M _Z	19 29 00					
	Aug 15	iP	20 03 26					
		iS	20 09 08					
		eL _E	20 11 33					
		L _{NZ}	20 13 53					
		M _E	20 13 53					
		M	20 18 00					
	Aug 17	eP	23 47 19					
		iS	23 52 51					
		eL _E	23 56 00					
		M	00 05 00					
	Aug 17	L	21 54 00					
		F	22 14 00					
	Aug 19	eP	3 02 40					
		PR ₁	3 08 30					
		iS	3 12 06					
		L	3 23 00					
		M	3 34 00					
	Aug 19	e _E	18 04 14					
		eL _E	18 10 10					
		M	18 14 00					
		F	18 23 00					

FORDHAM UNIVERSITY, NEW YORK CITY

Monthly Seismological Report

From August 19, 1929 to August 31, 1929 No. 6

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
					μ	μ		
	Aug 19	eL _E	21 45 15					
		L _E	21 49 00					
		M	21 56 00					
	Aug 20	eL _E	17 04 10					
		L _E	17 34 00					
		L _E	17 40 00					
	Aug 20	iP _Z	17 43 36					
		PR ₁	17 44 45					
		iS	17 48 50					
		eL _N	17 52 00					
		L _Z	17 52 45					
		M _Z	17 59 00					
		M _N	18 01 00					
	Aug 22	eL _{NE}	8 43 10					
		L _Z	8 44 00					
		F	9 18 00					
	Aug 22	e _N	16 54 33					
		eL _{NE}	17 06 00					
		M _N	17 16 00					
		M _E	17 17 00					

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Monthly Seismological Report

From September 1, 1929 to September 30, 1929 No. 7

No.	DATE	PHASE	TIME h. m. s.	PERIOD s	AMPLITUDE		DISTANCE km.	REMARKS
					A _E	A _N		
					μ	μ		
	Sept 8	e _E	11 01 16					
		e _Z	11 01 26	6.2				
		F	11 14 00					
	Sept 8	e _{EZ}	14 16 49					
		F	14 29 00					
	Sept 17	i _P	19 25 05				4520	
		PR ₁	19 26 53					
		i _S	19 31 13					
		i _{NE}	19 34 03					
		L	19 36 53	8.25				
		M _{NE}	19 39 00					
		M _{2E}	19 42 00					
		M _{2N}	19 43 00					
	Sept 21	e _{NE}	16 54 19					
		e _Z	16 54 30					
	Sept 23	e _N	16 27 27					
	Sept 24	e _N	5 19 55					
	Sept 26	e _N	15 48 03					
		eL _{NZ}	15 54 28					
	Sept 27	eP?	23 23 20					
		eS?	23 28 28					
		L	23 33 54	6.6				
		M _N	23 35 36					
		M _Z	23 37 10					

SEISMOLOGICAL REPORT

From December 18, 1929 to April 30, 1930.

DATE	PHASE	TIME (h.m.s.)	PERIOD (s)	DISTANCE
Dec. 18	eL _N	19 33.5		21
	M _N	20 01		
Dec. 19	eL _N	4 51		
	M _N	4 53		
Dec. 19	e _N	10 42 06		
	e	10 43 55		
	eL	10 57 10		
	M	11 06	17	
	L _N	11 14	16	
Dec. 19	F	11 44		
	eL _N	20 05.6		15
	M _N	20 13		
F	20 42			
Dec. 20	eL _N	7 54.4		N.B. From Dec. 20 to Dec. 24, inclusive, the time correction is uncertain. Hence the readings are only approximate.
	L _N	8 20.5		
	M	8 21.5		
Dec. 20	e	10 38 10		
	e _{NE}	10 39 20		
	i	10 40 28		
	i _{E?}	10 41 30		
	eL _{E?}	10 43 26		
Dec. 21	e _{NE}	11 45 36		22.5
	e _N	11 46 18		
	eL	11 51.5		
	M	11 59.5		
Dec. 24	eL _N	5 17.2		19
	L _N	5 19.8		
	M _{EZ}	5 21		
Dec. 28	eL _N	2 40.3		
	M _N	2 48		
Dec. 28	eL _N	12 43.6		22
	F	13 33		
Dec. 31	e _N	1 34 04		18
	eL _N	2 00.7		
	L _N	2 07		
	M _N	2 18.5		
	L _N	2 24		
Dec. 31	e _N	5 30 22		19.5
	eL _N	5 37.5		
	M	5 54		
	L _N	6 03.5		