

$\phi = 40^{\circ} 51' 47''$ N
 $\lambda = 73^{\circ} 53' 8''$ W
 $h = 24$ m
 $a = +.210$
 $b = -.726$
 $c = +.654$

FORDHAM UNIVERSITY NEW YORK CITY

Instruments:
 Wiechert
 Galitzin-Wilip
 Milne-Shaw
 Wood-Anderson
 (Short Period)
Foundation:
 Fordham Gneiss

Instrumental Bulletin of the Seismic Observatory

Jan. 4	e Z	01 ^h 43 ^m 15 ^s			
	e	01 49 54			
	e	01 52 40			
	eL	02 15.5			
Jan. 4	eP	04 08 11	Δ 46.6°		
	iS	04 15 08			
	iPS	04 15 18	62°N		
	iL	04 22	148°W (USCGS)		
Jan. 7	i	04 30 55			
	e	04 37 24			
	eL	04 51			
Jan. 21	eP'	19 40 37	Δ 148°		
	iPR1	19 43 52			
	i	19 44 30	41°S		
	iSR1	20 02 23	59°E (JSA)		
	iSR2	20 07 43			
	eL	20 29.3			

DAILY MICROSEISMIC RECORD - JANUARY 1933.

Day	Max. Amp. (mm)	Approx. Time	Period	Day	Max. Amp. (mm)	Approx. Time	Period
1	3.8	3	4.8	16	.8	1	4.6
2	2.7	4	6.4	17	.6	123	4.8
3	2.5	1	6.6	18	.8	34	irreg.
4	1.2	123	6.2	19	1.2	4	5.6
5	.8	123	irreg.	20	1.5	1 34	irreg.
6	.8	12	"	21	1.7	1234	5.4
7	.9	23	5.8	22	2.8	2	6.2
8	(2.5)	2	4.2	23	1.1	1	5.2
	(3.3)	4	5.8	24	2.0	4	8.0
9	4.5	12	6.4	25	2.4	1	8.0
10	3.5	4	5.6	26	6.5	4	6.0
11	8.5	2	6.4	27	6.0	1	6.4
12	2.5	1	6.0	28	5.0	4	6.8
13	1.4	3	5.0	29	4.8	12	6.0
14	2.0	4	irreg.	30	3.4	34	5.4
15	1.8	1	4.8	31	3.4	1	5.8

1 = 00h - 06h
 2 = 06h - 12h
 3 = 12h - 18h
 4 = 18h - 24h

J. J. L., S. J.

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FEBRUARY 1933.

Feb. 3	eP	22 ^h	24 ^m	16 ^s	$\Delta 84^{\circ}$
	eS	22	34	36	
	ePS	22	35	27	46°N
	eSR ₁	22	40+		151°E (JSA)
	eL	22	55+		
Feb. 18	eP	19	51	33	$\Delta 31.1^{\circ}$
	eS	19	56	01	13°N
	eL	20	00		90°W (JSA)
Feb. 23	eP	08	19	30	$\Delta 59.7^{\circ}$
	iS	08	27	40	19°S
	iL	08	37		69°W

DAILY MICROSEISMIC RECORD - FEBRUARY 1933.

Max. Approx.				Max. Approx.			
Day	Amp. (mm)	Time	Period	Day	Amp. (mm)	Time	Period
1	1.5	1	5.6	15	.8	4	3.4
2	.7	1234	4.8	16	1.1	234	4.4
3	.8	234	3.8	17	3.2	23	6.6
4	1.4	34	5.2	18	1.7	1	6.2
5	2.5	4	4.6	19	.8	34	4.4
6	3.1	12	4.6	20	1.2	4	5.2
7	3.5	12	6.4	21	1.5	4	4.0
8	2.5	1234	6.8	22	1.4	12	4.0
9	5.0	12	4.8	23	1.7	23	7.0-8.0
10	5.5	12	6.4	24	1.2	1	7.6
11	(2.2)	1	6.4	25	3.2	12	8.0
	(2.2)	4	3.4	26	3.3	4	4.6
12	3.2	12	4.4	27	3.4	12	5.2
13	6.7	3	7.2	28	(No record	03h-15h)	
14	3.5	1	6.2		3.3	34	6.0

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 2 = 06h - 12h
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MARCH 1933.

Mar. 2	iP	17 ^h 44 ^m 13 ^s	$\Delta 92^{\circ}$	
	iPR ₁	17 47 54		
	iPR ₂	17 50 07	39.5°N	
	iS	17 54 58	143.5°E	(USCGS)
	L	18 13.5		
Mar. 11	iP	02 01 06	$\Delta 36.2^{\circ}$	
	ePR ₁	02 02 23		
	iS	02 06 45	32.8°N	
	e	02 06 57	118.5°W	(JSA)
	iSR ₁	02 09 07		
	eL	02 12		
	M	02 13.5		
Mar. 17	eP	16 06 58	$\Delta 71.4^{\circ}$	
	e	16 11 32		
	eS	16 16 22	56°N	
	e	16 21 02	160°E	(JSA)
	L	16 31+		

DAILY MICROSEISMIC RECORD - MARCH 1933.

Day	Max. Approx.			Day	Max. Approx.		
	Amp. (mm)	Time	Period		Amp. (mm)	Time	Period
1	2.7	12	5.6	16	1.6	12	4.0
2	1.8	1	5.4	17	1.6	4	6.2
3	2.5	234	5.0	18	1.7	123	6.4
4	2.7	1	5.2	19	.8	1	irreg.
No record		4d19h-5d14h		20	1.3	34	"
5	1.2	34	irreg.	21	2.3	4	"
6	1.4	12	5.0	22	2.3	12	"
7	.9	4	5.6	23	1.4	1	"
8	2.0	4	irreg.	24	1.0	123	5.0
9	2.8	234	5.8	25	.7	123	5.0
10	2.8	1	6.0	26	1.7	4	4.6
11	.6	1	irreg.	27	2.2	234	5.0
12	.9	234	5.6	28	1.8	1	5.0
13	.6	12	5.0	29	.7	1234	4.4
14	1.2	4	3.8	30	2.2	23	8.0
15	1.7	4	4.0	31	1.2	1	8.0

1 = 00h to 06h
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Instrumental Bulletin of the Seismic Observatory

APRIL 1933.

Apr. 9	e	03 ^h 09 ^m 59 ^s	39.5°N 143.0°E	(JSA)
	eL	03 32		
	M	03 46		
Apr. 9	eP	04 05 07	3800 kms.	
	ePR ₁	04 06 11		
	eS	04 10 31	18°N	
	eSR ₁	04 12 34	105.5°W	(USCGS)
	L	04 16+		
Apr. 9	eS	21 16 14	4000 kms.	
	eSR ₁	21 18 49	18.5°N	
	eL	21 22+	107.0°W	(JSA)
Apr. 23	eP	06 09 12	8100 kms.	
	iS	06 18 48		
	eSR ₁	06 23.8	37°N	
	eSR ₂	06 27.3	27°E	(USCGS)
	eL ₂	06 32.8		
Apr. 27	iP	02 44 58	5500 kms.	
	iPR ₁	02 46 58		
	iPR ₂	02 47 43	61°N	
	iS	02 52 02	150°W	(USCGS)
	iPS	02 52 18		
	iL	02 58		

DAILY MICROSEISMIC RECORD - APRIL 1933.

Max. Approx.				Max. Approx.			
Day	Amp. (mm)	Time	Period	Day	Amp. (mm)	Time	Period
1	.9	123	5.6	16	.4	1234	6.4-4.4
2	.7	34	4.4	17	.4	1234	4.0-5.0
3	.8	123	4.2	18	.3	1234	4.0
4	.9	4	irreg.	19	.7	34	3.8
5	1.8	34	6.2	20	1.0	123	irreg.
6	1.9	12	6.0	21	.5	12	"
7	.7	1	5.4	22	.2	123	4.0
8	.7	1234	4.0	23	.4	234	3.6-4.4
9	.6	1234	4.0	24	.3	1234	4.4
10	.5	123	4.2	25	.4	1234	4.6
11	.5	234	4.6	26	.6	1234	5.0
12	.8	4	3.4	27	1.2	234	irreg.
13	2.2	2	4.2	28	.9	1	"
14	2.3	1	irreg.	29	.4	12	5.4
15	.6	12	5.4	30	.3	1	irreg.

1 = 00h - 06h
 2 = 06h - 12h
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Instrumental Bulletin of the Seismic Observatory

MAY 1933.

May 1	e \bar{P}	19h 00m 26s	7100kms.
	e	19 00 38	
	eS	19 09 05	
	e	19 09 18	
	eL	19 21	
	M	19 30.2	
May 5	e	04 21 59	Time approximate.
	e	04 27 41	
	eL	04 34	
May 6	e \bar{P}	05 40 34	4200 kms.
	e	05 41 46	
	e	05 42 13	5 $^{\circ}$ N
	iS	05 46 22	84 $^{\circ}$ W (USCGS)
	eSR ₁	05 48 57	
	M	05 54.8	
May 8	i \bar{P}	10 40 20	3800 kms.
	i	10 45 43	17 $^{\circ}$ N
	i	10 45 55	100 $^{\circ}$ W (USCGS)
May 11	e \bar{P}	19 20 59	7660 kms.
	eS	19 30 09	
	eL	19 43	
May 19	e \bar{P}	18 09 04	7450 kms.
	i \bar{P}	18 09 09	
	eS	18 18 01	
	iS	18 18 11	
	eL	18 28.8	
May 30	e \bar{P} ?	11 50 20	
	e	11 51 31	
	e	11 55 30	
	e	11 55 40	

N.B. The records of May 8^d and 9^d are incomplete due to the installation of new recording drums on the Galitzins.

DAILY MICROSEISMIC RECORD - MAY 1933.

Max. Approx.							
Day	Amp. (mm)	Time	Period	Day	Amp.	Time	Period
1	.9	34	8.4	15	.9	34	5.2
2	.7	123	7.6	16	1.5	3	5.2
3	.4	123	7.6	17	1.1	1234	6.2
4	.8	23	9.0	18	1.2	12	6.0
No record		4 ^d 18h-5 ^d 13h		19	.5	1	6.2
5	.8	3	irreg.	20	.2	4	3.6
6	1.2	4	5.8	21	.4	34	3.4
7	1.4	234	irreg.	22	.4	12	3.4
8	1.0	12	6.2	23	.2	1	3.6
No record		8 ^d 13h-8 ^d 23h		24	.2	4	4.6
9	2.2	4	5.4	25	.2	1234	4.6-6.0
10	2.2	1	5.6	26	.3	34	4.6
11	.7	1	5.0	27	.7	34	4.6
12	.5	12	4.8	28	.6	1	4.8
13	.3	34	5.0	29	.5	123	5.0
14	.3	1234	5.2	30	.5	1	4.8
				31	.3	1	4.6

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Instrumental Bulletin of the Seismic Observatory

JUNE 1933

June 8 eP 18^h23^m50^s 10100 kms
 ePR₁ 18 27 32
 eSKS 18 34 22 40°N:144°E
 e 18 34 34 (JSA)
 eL 18 55+

June 12 eP 15 32 24 5630 kms.
 eS 15 39 43
 eL 15 49

June 13 iP 22 28 40 5390 kms.
 eS 22 35 44
 e 22 38 23 61°N:151°W
 eL 22 43 (CGS)

June 18 e 04 19 00
 e 04 20 23
 e 04 22 01
 e 04 27 44
 eL 04 46

June 18 iP 21 51 00 10550 kms.
 iPR₁ 21 54 48
 i 21 55 06 38°N:142°E
 iSKS 22 01 34 (CGS)
 iSKKS 22 02 04
 iS 22 02 18
 iPS 22 03 32
 eSR₁ 22 08.5
 eL 22 25.5

June 19 eS 19 03 38
 eL 19 13

June 24 iP' 22 14 21 15960 kms.
 i 22 22 04 4°S:101°E
 i 22 37 42 (JSA)

June 28 e 10 08 27
 e 10 15 41
 eL 10 25+

June 28 eP 23 44 59 6450 kms.
 ePR₁ 23 47 13
 eS 23 53 06 53°N:167°W
 e 23 53 26 (CGS)
 eSR₁ 23 57+
 eL 24 06

June 29 eS 02 50 38 6450 kms.
 eL 03 05+

DAILY MICROSEISMIC RE-
CORD FOR JUNE 1933.

Day	Max. Amp. (mm)	Approx. Time	Period (s)
1	1.2	4	4.4
2	1.3	1	4.6
3	.7	1	4.4
4	.7	4	5.0
5	.4	1234	5.0
6	.4	12	4.8
7	.3	12	4.4
8	.1	12	4.6
9	.1	234	4.0
10	.2	23	4.0
11	.1	1	3.8
12	0		
13	.1	234	2.0-4.0
14	.3	1234	3.6
15	.3	12	3.6
16	.1	1234	3.4
17	.2	123	3.2
18	.3	3	3.0
19	.3	1234	3.6
20	.3	1234	3.6-4.2
21	.3	12	4.2
22	.1	12	4.4
No record 22 ^d 14 ^h -23 ^d 15 ^h			
23	.2	4	4.4
24	.2	12	4.4
25	.2	12	3.4
No record 25 ^d 13 ^h -26 ^d 16 ^h			
26	.1	4	7.2
27	.1	12	7.2
28	.1	1234	7.0
29	.3	12	3.8
30	0		

1 = 00^h to 06^h
 2 = 06^h to 12^h
 3 = 12^h to 18^h
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Instrumental Bulletin of the Seismic Observatory JULY 1933

1933				
July	9	eP	01 ^h 42 ^m 42 ^s	9340 kms.
		eS	01 53 12	45°N:150°E
		L	02 14+	(CGS)
July	9	iP	05 41 19	3780 kms.
		eS	05 46 52	17°N:105°W
		L	05 53+	(CGS)
July	9	eP	09 40 43	9220 kms.
		eS	09 51 04	45°N:150°E
		L	10 12	(CGS)
July	9	eP	12 43 19	9340 kms.
		L	13 14	45°N:150°E
July	9	e(P)	16 19 46	(9440 kms)
		e(S)	16 30 14	
		L	16 47	
July	10	eP	00 34 47	9445 kms.
		eS	00 45 18	
July	10	eP	03 28 45	4000 kms.
		iS	03 34 31	17°N:104°W
		L	03 41	(CGS)
July	10	eP	10 55 22	
		e	11 05 30	
		e	11 13 30	
		L	11 40	
July	19	ePR ₁	05 15 39	4670 kms.
		eS	05 20 12	
		L	05 27.5	
July	19	eP	10 56 10	7110 kms.
		eS	11 04 52	50°N:170°W
		L	11 21	(JSA)
July	19	eP	13 43 01	7110 kms.
		eS	13 51 43	50°N:170°W
		L	14 03.6	(JSA)
July	19	iP	15 10 33	7080 kms.
		eS	15 19 11	50°N:170°W
		L	15 31.5	(JSA)
July	20	eP	23 27 08	(9500 kms)
		e(S)	23 37 41	
		L	24 00+	
July	21	eP	07 34 01	2640 kms.
		eS	07 38 02	
		eP	07 40 7 41 ca	
July	21	ePR ₁	20 25 12	
		L	20 59	
July	22	eP	21 05 32	6675 kms.
		ePR ₁	21 07 52	52°N:169°W
		iS	21 13 56	(CGS)
		L	21 25+	

DAILY MICROSEISMIC RE- CORD FOR JULY 1933.

Day	Max. Amp. (mm)	Approx. Time	Period (s)
' 1	.3	34	4.0
' 2	.5	34	4.4
' 3	.8	4	4.2
' 4	.8	4	4.2
' 5	1.1	123	4.0
' 6	.6	1	4.4
' 7	0		
' 8	.2	234	4.6
' 9	.2	12	4.2
' 10	.1	123	4.2
' 11	.1	1234	4.2
' 12	.4	4	3.6
' 13	.5	123	4.0
' 14	.3	1234	4.0
' 15	.4	12	4.4
' 16	.3	1234	4.4
' 17	.3	1234	4.4
' 18	.2	1	4.2
' 19	.1	1234	4.0
' 20	0		
' 21	0		
' 22	.1	123	4.0
' 23	.1	12	4.0
' 24	0		
' 25	.2	3	4.4
' 26	.1	12	4.4
' 27	.3	4	3.6
' 28	.2	1234	3.6
' 29	.2	34	3.6
' 30	.2	1234	4.2
' 31	.3	234	4.0

1=00^h-06^h
 2=06^h-12^h
 3=12^h-18^h
 4=18^h-24^h

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JULY AND AUGUST 1933.

1933			
July 23	eP eS L	09 ^h 43 ^m 46 ^s 09 48 34 09 51	3070 kms.
July 24	eSKS ePS L	19 20 37 19 23 35 19 46 ca	12000 kms. 15°S:170°W
July 26	eS L	05 16 18 05 19+	2000 kms.
July 31	e e L	15 32 40 15 40 25 15 47+	
Aug. 6	e e	03 03 57 03 11 29	
Aug. 7	e e	03 09 37 03 15 03	
Aug. 11	e e L	09 15 55 09 23 14 09 43 ca	
Aug. 13	e i e L	09 47 24 09 50 36 10 09 12 10 35 ca	
Aug. 25	eP ePR ₁ iSKS L	08 04 50 08 09 15 08 15 33 08 44+	11830 kms. 31°N:101°E (CGS)
Aug. 28	eP iPR ₁ iPR ₂ iPS ₂ L	22 34 02 22 38 44 22 41 08 22 48 24 23 10	12820 kms.
Aug. 29	iP iS	15 00 50 15 07 25	5560 kms. 8.3°S:70.6°W (JSA)
Aug. 31	e e L	03 06 19 03 09 02 03 12+	

 DAILY MICROSEISMIC RECORD
 FOR AUGUST 1933.

Day	Max. Amp. (mm)	Approx. Time	Period (s)
1	.2	1234	4.2
2	.3	4	4.4
3	.5	4	4.4
4	.7	4	3.6
5	.7	1	3.6
6	.3	1	4.0
7	.2	1234	4.0
8	.1	12	4.0
9	.2	1234	4.0
10	.3	34	4.6
11	(.3)	1	4.8
	(.2)	4	2.8
12	.2	1	2.8
13	.1	1234	3.6
14	.1	1234	3.6
15	.1	1234	3.6
16	.1	1234	3.6
17	.1	1234	3.6
18	.2	4	4.8
19	.2	1234	4.8
20	.8	4	8.0
21	1.1	12	8.0
22	1.1	1234	irreg.
23	2.4	34	"
24	1.5	12	"
25	.4	1	3.6
26	.8	34	4.4
27	.8	123	6.0
28	.4	12	5.0
29	.5	234	irreg.
30	.4	34	5.0
31	.3	12	5.0
8			
		1=00h-06h	
		2=06h-12h	
		3=12h-18h	
		4=18h-24h	

J.J.L.S.J.

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SEPTEMBER 1933

1933			
Sept. 2	iPR ₁	16 ^h 58 ^m 50 ^s	11000 kms.
	i	17 04 26	5°N:178°E
	i	17 05 08	(JSA)
	i	17 05 38	
	i	17 07 13	
Sept. 6	eP'	22 27 19	12850 kms.
	i	22 32 01	24°S:178°W
	i	22 33 17	(JSA)
	i	22 34 13	
	e	22 35 58	
	i	22 38 16	
	i	22 39 55	
	i	22 42 36	
	i	22 48 45	
Sept. 9	e	21 38 42	
	iPR ₂	21 40 08	30°N:141°E
	e	21 49 48	(JSA)
	L	22 16+	
Sept. 24	iP	15 30 23	7110 kms.
	iS	15 39 05	51°N:177°W
	L	15 51 ca	(CGS)
Sept. 25	e	19 05 11	
	e	19 09 16	
	e	19 15 38	
	e	19 18 23	
	L	19 37	
Sept. 30	e	14 43 43	
	L	15 20	

 DAILY MICROSEISMIC RECORD
 FOR SEPTEMBER 1933.

Day	Max. Amp. (mm)	Approx. Time	Period (s)
1	.3	234	3.8
2	.4	234	4.4
3	.4	12	4.4
4	.5	4	4.8
5	.6	4	4.6
6	.6	123	4.6
7	.5	1	4.6
8	.3	1 34	4.2-6.0
9	No record	09 ^d 00 ^h -09 ^d 14 ^h	irreg.
10	.2	34	3.6
11	1.1	4	5.6
12	2.8	34	6.0
13	2.5	1	6.0
14	1.2	4	5.2
15	2.3	4	5.2
16	3.8	4	5.0
17	6.2	2	4.8
18	No record	17 ^d 09 ^h -17 ^d 14 ^h	
19	3.0	1	4.6
20	.8	12	4.6
21	1.3	23	4.8
22	1.2	23	5.6
23	.9	1234	irreg.
24	.8	23	4.6
25	.7	1234	irreg.
26	.5	12	"
27	.4	1	5.2
28	.3	12	5.4
29	.7	4	7.0
30	.8	12	7.0
	.3	12	6.0-7.6
		1=00 ^h -06 ^h	
		2=06 ^h -12 ^h	
		3=12 ^h -18 ^h	
		4=18 ^h -24 ^h	

J.J.L.S.J.

$\phi = 40^{\circ} 51' 47''$ N
 $\lambda = 73^{\circ} 53' 8''$ W
 $h = 24$ m
 $a = +.210$
 $b = -.726$
 $c = +.654$

FORDHAM UNIVERSITY NEW YORK CITY

Instrumental Bulletin of the Seismic Observatory

Instruments:
 Wiechert
 Galitzin-Wilip
 Milne-Shaw
 Wood-Anderson
 (Short Period)
 Foundation:
 Fordham Gneiss

OCTOBER 1933

1933
 Oct. 1 eP_{NE} 02h⁴⁹m¹⁰s 5100 kms.
 eS_{NE} 02 56 00
 e_{NE} 02 59 46

Oct. 2 e 09 23 03
 eL 09 28+

Oct. 2 iP_{NZ} 15 37 26 4670 kms.
 iS_E 15 43 53 3⁰S:80⁰W.
 iL 15 50 (CGS)

Oct. 3 eP_Z 10 29 25 4590 kms.
 eS_E 10 35 47
 eL 10 42

Oct. 12 iP 07 23 38
 e 07 31 34

Oct. 14 eP_{NE} 22 28 54 6400 kms.
 eS_{NE} 22 36 57
 eSR_{NE} 22 41 01
 eL 22 48+

Oct. 25 iP_{NEZ} 23 38 31 6620 kms.
 i_{NZ} 23 39 27 22⁰S:67⁰W.
 iS_{NE} 23 46 53 (CGS)
 L 23 56+

Oct. 26 e_{NZ} 12 25 12
 i_N 12 30 48
 i_N 12 34 24
 i 12 39 47
 eL 12 54 ca

Oct. 28 e 02 55 38 On the Wood-
 e 02 56 07 Anderson record
 e 02 56 20 only.
 e 02 58 16 Period - 4.8^s
 F 03 07

Oct. 28 e[?] 15 18 35 Only on W-A.
 e 15 20 23 Period - 4.7^s
 F 15 29

Oct. 29 i[?] 03 05 41 Only on W-A.
 e 03 06 34
 i 03 06 53 Period - 4.8^s
 F 03 23

 DAILY MICROSEISMIC RECORD
 FOR OCTOBER 1933.

Day	Max. Amp. (mm)	Approx. Time	Period (s)
1	.2	1234	7.0
2	.3	4	4.6
3	.5	4	irreg.
4	.8	123	8.0
5	.6	12	irreg.
6	2.3	2	8.0
7	3.4	4	6.0
8	4.3	1	5.6
9	2.3	4	5.6
10	1.3	1	5.0
11	.7	12	8.0
12	.3	1234	4.2
13	.5	3	6.4
14	.5	1234	5.0
15	.9	234	5.2
16	1.0	12	5.2
17	.7	234	6.2
18	.6	12	6.2
19	.7	123	6.0-5.4
20	1.0	12	6.0
21	1.0	4	5.0
22	.8	1234	4.8
23	1.5	234	8.0
24	1.3	34	7.0
25	2.0	34	4.4
26	2.2	23	5.2
27	2.4	4	6.0
28	1.7	1	6.0
29	2.7	12	5.2
30	.9	1	5.0
31	.3	1234	4.6

1=00h-06h
 2=06h-12h
 3=12h-18h
 4=18h-24h

$\phi = 40^{\circ} 51' 47'' \text{ N}$
 $\lambda = 73^{\circ} 53' 8'' \text{ W}$
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DECEMBER 1933

1933						DAILY MICROSEISMIC RECORD FOR DECEMBER 1933			
Dec. 4	iP Z iS E i E	19 ^h 46 ^m 02 ^s 19 55 52 19 56 06	8500 kms. 63°N:135°E (CGS)	Day	Max. Amp. (mm)	Approx. Time	Period (s)		
Dec. 12	e NE i NE eL N M	14 37 12 14 50 15 15 05 15 14+		1	2.6	4	5.2		
Dec. 13	eP EZ e N i NE i NE L E M	21 30 27 21 31 19 21 31 36 21 36 10 21 38 02 21 42 21 46	3900 kms. 18°N:104°W (CGS)	2	2.8	23	5.8		
Dec. 14	ePR ₁ LE eS ₁ NE eSR ₁ LN eL M	07 24 24 07 28 57 07 30 51 07 36 ca 07 38	3900 kms 18°N:103.5°W (JSA)	3	1.8	1	6.0		
Dec. 15	eP Z e Z e N e E e NE eL N M	07 48 21 07 49 01 07 49 14 07 49 21 07 53 01 07 53 24 07 57+ 08 01	3270 kms 54.2°N:35°W (JSA)	4	2.5	4	4.2		
Dec. 19	e' e' i' Z i E MLN M ₂ N i E i E FE	17 58 00 18 01 37 18 03 00 18 05 01 18 05.6 18 08 18 08 00 18 08 47 18 40	Peculiar. The phases with the ' appear on W-A short period, instrument only.	5	3.1	1	4.4		
				6	2.2	1	6.6		
				7	.9	1	irreg.		
				8	.5	1234	4.6ca		
				9	1.0	4	irreg.		
				10	1.8	34	4.4		
				11	2.3	4	5.0		
				12	2.3	12	5.0		
				13	2.1	1	5.0		
				14	1.7	3	4.6		
				15	1.7	34	5.4		
				16	1.4	12	5.4		
				17	.8	1	5.6ca		
				18	.8	1 34	irreg.		
				19	2.2	23	5.2		
				20	1.2	1	6.0		
				21	1.8	34	4.6		
				22	2.0	34	5.2		
				23	2.1	4	5.8		
				24	1.6	1234	5.8		
				25	1.5	3	3.6		
				26	2.2	2	5.4		
				27	3.7	2	4.0		
				28	5.7	23	6.0		
				29	4.5	1	6.6		
				30	2.0	12	5.2		
				31	1.3	12	6.6		

1=00h-06h
 2=06h-12h
 3=12h-18h
 4=18h-24h

J.J.L.S.J.