

Jan. 2	eP	9 56 03	4120
	iPR <sub>1</sub>	9 57 21	
	iS	10 01 47	
	iSR <sub>1</sub>	10 04 17	
	iL	10 06.8	
Jan. 15	iP	1 57 06	3500
	iS	2 02 12	
	iL <sub>Z</sub>	2 06	
Jan. 16	eP	19 26 17	3650
	eS	19 31.31	
	L	19 35.5	
Jan. 17	eP <sub>Z</sub>	2 57 03	3650
	iSN	3 02.17	
	iL	3 06.4	
Jan. 25	eP?	12 43 28	3090?
	eS	12 48 06	
	eL?	12 51+	
Jan. 27	ePR <sub>1</sub>	20 28 37	12100
	iPS	20 38 27	
	iPPS	20 39 27	
	iSR <sub>1</sub>	20 44 13	
Jan. 28	oPR <sub>1</sub>	21 44 09	12600
	iPPS	21 54 21	
	iSR <sub>1</sub>	22 00 15	

Those earthquakes of which the various phases cannot be read with certainty are omitted. Only those with distinct epochs are noted in this report by giving some of the best defined arrival times.

FORDHAM UNIVERSITY

NEW YORK CITY .

SEISMIC BULLETIN FOR FEBRUARY 1931.

Day	Phase	H.	M.	S.	Distance
2	iP'Z	23	05	51	14000 kms.
	iPR <sub>1</sub>	23	07	55	
	iSR <sub>1</sub>	23	25	10	
	iSR <sub>2</sub>	23	29	55	
	L	23	46.6		
10	iP'N	6	54	08	15800 kms.
	iPR <sub>1</sub> N	6	57	22	
	iSR <sub>1</sub> N	7	16	46	
	eL	7	52+		
12	eP'NZ	6	03	34	15800 kms.
	ePR <sub>1</sub>	6	06	50	
	eLNE	7	00		
	LZ	7	08		
13	iP'Z	1	46	28	14200 kms.
	iPR <sub>1</sub> N	1	48	18	
	iSR <sub>1</sub>	2	05	38	
	L	2	29+		
16	iP	19	01	37	9890? kms.
	eSKS?	19	12	09	
	iS?	19	12	30	
	eLN	19	31+		
19	i Z	18	00	03	
	i Z	18	00	11	
	iZ	18	02	20	
	eLNE	18	47+		
20	iPZ I	5	45	52	6530 kms. No L waves visible.
	iPZ II	5	47	14	
	iPNZ III	5	47	54	
	iSNL	5	55	47	
	i NE	5	56	16	
	i NE	5	58	41	
27	eNEZ	9	59	25	
	i	10	00	16	
	eN	10	16	56	
	e	10	21	45	
	eLN	10	42+		

Less legible shocks were recorded on the following days: -

7(2), 8, 9, 10, 11, 12, 14.

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NEW YORK CITY

SEISMIC BULLETIN FOR MARCH 1931.

Mar 2	iZ	2 39 18		Mar 18	eP	8 14 00	$\Delta=73^\circ$
	e	2 41 46			ePR <sub>1</sub>	8 17 00	
	e	2 50 42			iS	8 23 35	
	e	2 56 12			iPS	8 24 00	
	M	3 14			eSR <sub>1</sub>	8 28 40	
					eL <sub>NE</sub>	8 37+	
Mar 7	iP	0 48 09	$\Delta=34^\circ$	Mar 18	iP' <sub>NZ</sub>	20 32 51	$\Delta=129^\circ$
	iPR <sub>1</sub>	0 49 05			iPR <sub>1</sub>	20 35 23	
	PcP	0 50 27			eSR <sub>1</sub>	20 52	
	iS	0 53 31			eL	21 16+	
	L	0 56+					
Mar 8	iP	2 01 24	$\Delta=67^\circ$	Mar 19	PR <sub>1</sub>	6 45 20	$\Delta=119^\circ$
	ePR <sub>2</sub>	2 05 34			PS	6 55 27	
	eS	2 10 23			SR <sub>1</sub>	7 01 27	
	eSR <sub>1</sub>	2 15 05			eL	7 28+	
	eL	2 22+					
Mar 9	P	4 02 26	$\Delta=87^\circ$	Mar 28	iP' <sub>Z</sub>	12 58 02	$\Delta=141^\circ$
	PR <sub>2</sub>	4 08 12			iP' <sub>Z</sub>	12 58 13	
	SKS	4 12 41			iPR <sub>1Z</sub>	13 01 24	
	iS	4 13 09			iPR <sub>1NZ</sub>	13 01 39	
	Ps	4 13 59			iPR <sub>3N</sub>	13 07 37	
	eL	4 31+			iPR <sub>3N</sub>	13 07 54	
					iPS <sub>3N</sub>	13 12 40	
					iSR <sub>1</sub>	13 17 25	
Mar 11	eN	12 46 15		Mar 29	ePZ	17 35 28	$\Delta=60^\circ$
	eNE	12 51 23			eS	17 43 38	
	e	12 54 30			eSR <sub>1</sub>	17 48 18	
	e	13 00 58			eL <sub>NE</sub>	17 56+	
	eL?	13 12+					
Mar 12	e	10 58 30		Mar 31	eP	16 08 35	Managua.
	e	11 09 00			ePR <sub>1</sub>	16n09 31	
	e	11 14 45			S	16 13 37	
	eLN	11 36+			L	16 17.2	

Other shocks recorded on the  
7th and 30th.

FORDHAM UNIVERSITY

NEW YORK CITY

SEISMIC BULLETIN FOR APRIL 1931

April 6	iP'	7	08	25	Time approximate.
	e <sub>N</sub>	7	20	18	
	e <sub>N</sub>	7	28	30	
	e <sub>N</sub>	7	34		
	e <sub>L</sub>	7	47		
April 9	i <sub>Z</sub>	23	08	42	Time approximate.
	e <sub>N</sub>	23	19	06	
	e <sub>E</sub>	23	19	22	
	e <sub>L</sub>	23	39		
April 15	eP <sub>Z</sub>	17	05	37	$\Delta=33^\circ$
	e	17	06	51	
	e <sub>N</sub>	17	10	47	
	e <sub>L<sub>N</sub></sub>	17	15		
April 19	ePR <sub>1Z</sub>	2	08	46	$\Delta=37^\circ$
	eS <sub>N</sub>	2	13	08	
	e <sub>L</sub>	2	18.2		
April 20	e <sub>Z</sub>	19	55	51	Felt in New England and parts of New York State.
	e <sub>NE</sub>	19	55	53	
	i <sub>E</sub>	19	55	56	
	e <sub>NZ</sub>	19	56	06	
	M <sub>N</sub>	19	56	12	
April 22	e <sub>NE</sub>	0	08	33	
	e <sub>NE</sub>	0	15	53	
	e <sub>NE</sub>	0	29	58	
	e <sub>NE</sub>	0	37	28	
	e <sub>L</sub>	0	48+		
April 24	iP' <sub>Z</sub>	17	41	24	$\Delta_{PR_1-P'}=120^\circ$
	ePR <sub>1</sub>	17	42	59	
	ePS?	17	52	55	
	eSR <sub>1</sub>	17	59	47	
	eL <sub>NE</sub>	18	18+		
	L <sub>Z</sub>	18	19+		
April 27	eP <sub>N</sub>	17	03	15	$\Delta=78^\circ$
	PR <sub>1</sub>	17	06	27	
	eS	17	13	30	
	eSR <sub>1</sub>	17	19		
	e <sub>L</sub>	17	29		

Others on April 1, 3(2), 8, 11, 12, 16, 18,  
19, 20, 22, 23, 24, 25(3), 26.

FORDHAM UNIVERSITY SEISMIC STATION

NEW YORK CITY

MICROSEISMIC BULLETIN - 1931.

JANUARY, 1931.

FEBRUARY, 1931.

Day	Max. Amp. (mm)	Approx. Time	Period (s)	Day	Max. Amp. (mm)	Approx. Time	Period (s)
1	4.2	First few hrs.	5.0	1	1.7	First 9 hrs.	3.8
2	1.3	All day	5.0		1.5	Remaining hrs.	5.0
3	1.8	Latter half	5.3	2	1.0	All day	6.0
4	2.0	All day	5.5	3	.5	First quarter	3.0
5	1.9	First half	6.0		1.4	Latter half	9.0
6	2.5	20 - 24 hrs.	4.0 I	4	1.3	All day	7.5
7	6.0	First half	4.4 D	5	1.4	First half	7.5
8	3.2	First hour	4.8 D	6	.5	All day	4.5
9		No record		7	.6	" "	4.2-8.4
10	"	"		8	.9	" "	5.0-8.0
11	"	"		9	.8	" "	6.0
12	"	"		10	2.3	" "	4.0
13	1.8	All day	5.0	11	2.8	First 6 or 7hrs	4.4 D
14	1.8	" "	5.0	12	1.0	Latter half	4.4
15	3.7	Latter half	6.0 I	13	1.2	All day	5.0
16	4.8	All day	6.5	14	1.1	First 16 hrs.	5.0
17	2.3	First quarter	6.0 D		2.6	Remaining hrs.	4.0
18	4.0	Latter half	6.0	15	3.0	First 10 hrs.	4.4
19	2.8	First half	6.0		1.6	Remaining hrs.	5.0
20	1.4	All day	Irr.	16	1.5	All day	8.0
21	1.0	" "	Irr.	17	1.5	" "	6.0
22	1.4	" "	6.0	18	1.4	Last five hrs.	4.5
23	1.8	" "	6.0	19	2.1	All day	5.0
24	1.2	First 6 hrs.	6.0	20	2.6	Last quarter	7.5
25	1.1	Last 10 hrs.	5.0, 6.2	21	2.5	First quarter	7.0
26	1.0	All day	6.0	22	2.5	First half	7.8
27	.9	" "	6.4	23	2.8	Last 3 hrs.	6.0
28	.8	First few hrs.	5.8	24	5.0	All day	6.0
29	.6	All day	5.8	25	2.5	" "	6.0
30		No record		26	2.0	" "	6.0
31	1.0	First 14 hrs.	5.0	27	2.0	First half	6.0
	1.7	Remaining hrs.	3.8	28	1.8	Last few hrs.	6.0

All measurements were obtained from the records of the N-S Galitzin.

When there has been a particularly marked increase or decrease in intensity, it is indicated by "I" or "D".

In practically no case can the maximum be restricted to a definite point of time. Hence "First few hours" etc. indicate that the microseisms maintained the given maximum amplitude throughout that period.

FORDHAM UNIVERSITY SEISMIC STATION

NEW YORK CITY

MICROSEISMIC BULLETIN - 1931.

MARCH, 1931

APRIL, 1931.

Day	Max. Amp. (mm)	Approx. Time	Period (s)	Day	Max. Amp. (mm)	Approx. Time	Period (s)
1	2.5	All day	6.0	1	1.5	Last quarter	4.0
2	2.2	" "	6.0	2	1.8	All day	4.0, 5.5
3	2.3	Last few hrs.	6.0	3	1.1	" "	5.0
4	10.3	2:45 <sup>a</sup> 3:00 <sup>a</sup>	6.5 I	4	.7	" "	5.0, 4.0
5	8.5	04:30 <sup>m</sup>	6.5 D	5	.6	" "	5.0, 4.0
6	4.0	All day	6.0	6	2.0	Latter half	4.5
7	2.5	First few hrs.	6.0 D	7	2.4	All day	4.5
8	(1.0)	First 17 hrs.	5.0	8	3.0	First half	4.5
	(2.4)	Remaining hrs.	4.5	9	1.0	All day	4.5
9	2.9	All day	5.0	10	1.1	First half <sup>b</sup>	5.0
10	3.0	First few hrs.	5.5 D	11	(1.0)	First half	6.0
11	2.0	All day	5.0		(.6)	Remaining half	3.5
12	1.8	" "	5.8	12	.6	All day	3.0, 6.0
13	1.9	" "	5.5	13	1.4	" "	7.5
14	1.9	" "	6.0	14	1.0	" "	8.0
15	1.5	" "	7.0	15	1.2	First half	8.0
16	2.7	Last few hrs.	8.0	16	2.5	6 to 18 hrs.	6.0
17	(2.1)	First half	8.0	17	1.8	First half	6.0
	(2.3)	Remaining half	4.0	18	.6	First half	5.0
18	2.1	All day	4.4, 5.0	19	.3	All day	5.0
19	2.4	" "	6.0	20		Negligible	
20	1.9	First half	6.0 D	21		"	
21	1.7	First few hrs.	5.0 D	22		"	
22	1.0	All day	5.0	23	(1.2)	7 to 17 hrs.	3.5
23	3.6	Last few hrs.	5.0 I		(2.7)	Remaining hrs.	4.5
24	2.8	First few hrs.	5.0 D	24	1.8	First half	5.0
25	1.2	All day	6.0	25	.5	All day	4.0
26	2.2	Last few hrs.	5.0 I	26	.4	" "	4.0
27	2.3	First quarter	5.0 D	27	1.5	" "	3.0, 4.0
28	1.2	All day	6.0	28	(.9)	First half	4.5
29	.8	" "	5.0, 4.0		(.7)	Second half	4.0
30	1.0	" "	4.0	29	.5	All day	From 4 to 6 at 18h.
31	.9	" "	4.0	30	.4	" "	3.5

<sup>a</sup> The time is 18<sup>h</sup> 40<sup>m</sup>.  
<sup>b</sup> Should read "All day".

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NEW YORK CITY.

SEISMIC BULLETIN FOR JUNE 1931

QUAKES			MICROSEISMS			
Day	Phase	Time	Day	Max. Amp. (mm)	Approx. Time	Period
9	e	14 10 -	1	1.6	All day	6.5
	e	14 20 30	2	1.3	First half	6.0
	eL	14 43 20	3	.6	All day	5.0
9			4	.6	" "	5.0
9	e	16 24 02	5	.8	" "	6.0
	e	16 28 10	6	.8	" "	6.0
	eL	16 58	7	1.0	Latter half	6.0
13	e	15 59 26	8	.8	First 3 hrs.	6.0
	e	16 03 00	9	.4	Start at 5 h.	2.5, 3.0
	e	16 08 50	10	.5	All day	3.0-4.0
	eL <sub>NE</sub>	16 34+	11	.4	" "	4.0
15	eP <sub>NZ</sub>	11 29 35	12	.4	" "	4.0
	eS <sub>NE</sub>	11 37 21	13	.3	" "	4.0-6.0
	eL <sub>NE</sub>	11 47	14	.5	" "	4.0-6.0
			15	.4	First half	4.5
20	e(T) <sub>NZ</sub>	15 14 32	16	.3	All day	4.5
	eL	15 28	17	.3	" "	4.0
21	eI <sub>Z</sub>	12 30 18	18	.3	" "	3.5
	eI <sub>R1NL</sub>	12 31 28	19	.3	" "	3.5
	eS <sub>N</sub>	12 36 03	20	.3	" "	3.5
23	e <sub>N</sub>	6 39 03	21	.5	" "	3.5
	eL	7 03+	22	.5	Last quarter	4.2
29	iI <sub>Z</sub>	20 35 24	23	1.2	Latter half	5.2
	eS <sub>NE</sub>	20 44 40	24	1.0	First half	5.2
	eL	20 58	25	.5	First quarter	4.5
			26	.4	First half	4.5
			27	.3	All day	3.5
			28	.3	" "	3.5
			29	.4	" "	3.5
			30	.4	First half	3.5

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SEISMIC BULLETIN FOR JULY 1931

QUAKES			
Day	Phase	Time	
9	e <sub>Z</sub>	12 07 02	Δ 34.3°
	e <sub>PR1</sub>	12 08 05	
	e <sub>NE</sub>	12 12 26	
	e <sub>L</sub>	12 15.9	
11	e <sub>NZ</sub>	6 04 56	Δ 49°
	e <sub>NE</sub>	6 11 56	
	e <sub>L</sub>	6 19+	
12	i <sub>Z</sub>	17 06 37	
	e <sub>NE</sub>	17 16 46	
	e <sub>L</sub>	17 38+	
15	e <sub>PZ</sub>	16 38 36	Δ 72.4°
	e <sub>S</sub>	16 48 07	
	e <sub>L</sub>	17 01	
17	e <sub>P</sub>	9 20 09	Δ 32.4°
	e <sub>NE</sub>	9 25 20	
	e <sub>L</sub>	9 30	
18	e <sub>NZ</sub>	5 37 23	Δ 61.8°
	i <sub>NE</sub>	5 45 47	
18	i <sub>F</sub>	11 35 23	Δ 71.6°
	e <sub>S</sub>	11 44 48	
19	e(P) <sub>Z</sub>	20 21 43	
	e(S)	20 30 37	
20	e	8 55 20	
	e <sub>L</sub>	9 21	
21	e <sub>Z</sub>	3 55 06	Δ 119.8°
	i <sub>PR1</sub>	3 56 46	
	i <sub>SKKS</sub>	4 03 30	
23	e	14 41 10	
	e <sub>NE</sub>	14 45 47	
27	e <sub>P</sub>	7 21 45	Δ 27.3°
	i <sub>S</sub>	7 26 19	
	e <sub>L</sub>	7 29.5	
27	e <sub>P</sub>	16 36 46	Δ 43.3°
	e <sub>S</sub>	16 43 11	
	e <sub>SR1</sub>	16 46 23	

MICROSEISMS			
Day	Max. Amp. (nm)	Approx. Time	Period
1	.3	All day	3.5
2	.6	Latter half	4.2
3	.7	All day	4.2
4	.6	" "	5.0
5	.5	" "	4.5
6	1.4	Latter half	6.0
7	1.3	First half	6.0
8	.5	" "	4.6
9	.2	All day	4.0
10	.2	" "	4.0
11	.5	Last 5 hrs.	3.6
12	.4	All day	4.0
13	.3	First quarter	4.0
14	.3	Last quarter	3.0
15	.4	First half	3.5
	.5	Latter half	5.0
16	.5	All day	5.8
17	.4	First half	4.0
18	.4	All day	4.0
19	.2	" "	3.5
20	.5	Latter half	4.2
21	.4	All day	4.2
22	.3	" "	4.0
23	.4	" "	4.0
24	.4	First half	4.0
25	.3	All day	3.6
26	.3	First half	4.0
27		Negligible	
28		" "	
29	.3	First half	4.0
30	.4	All day	4.0
31	.4	" "	4.4



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SEISMIC BULLETIN FOR AUGUST 1931

QUAKES				MICROSEISMS			
Day	Phase	Time		Day	Max. Amp. (mm)	Approx. Time	Period
6	e(P)Z	18 28 46		1	.7	Last quarter	4.6
	eSNE	18 39 01		2	1.0	First quarter	4.6
	eL	18 55+		3	.5	First half	4.2
7	eP'Z	2 30 51	$\Delta 130^\circ$	4	.3	First quarter	4.2
	iPR <sub>1</sub> Z	2 33 15		5		Negligible	
	iPS	2 43 23		6		"	
	cSR <sub>1</sub>	2 50 21		7		"	
	eL	3 11+		8	.2	Third quarter	2.0
10	iP Z	21 31 49	$\Delta 90^\circ$	9	.2	All day	4.0
	iSKS	21 42 01		10	.2	" "	4.0
	iPS	21 43 49		11	1.0	Third quarter	3.2
	iSR <sub>1</sub>	21 48 53		12	1.6	Second quarter	3.5
13	eP'NZ	22 29 30	$\Delta 105.5^\circ$	13	.4	All day	irreg.
	ePR <sub>1</sub>	22 29 50		14	.2	First half	3.5
	eSKS	22 36 15		15		Negligible	
	ePS	22 39 06		16		"	
	eL	23 01+		17		"	
14	ePZ	16 22 16	$\Delta 61.5^\circ$	18		"	
	eSNE	16 30 38		19	.2	Third quarter	4.0
	eL	16 42		20	.15	Last hour	1.8
16	ePZ	8 09 52	$\Delta 15.7^\circ$	20	.3	First half	2.2
	eS	8 12 52		21	.3	Letter half	4.8
	eL	8 14.4		21	.3	All day	3.0-5.0
16	iP	11 46 05	$\Delta 27.6^\circ$	22	.4	Last quarter	3.8
	iPR <sub>1</sub> N	11 46 47		23	.7	Letter half	4.0
	iSNE	11 50 41		24	.8	All day	4.0
18	ePZ	14 34 07	$\Delta 91.6^\circ$	25	.6	First half	3.8
	cSN	14 45 12		26	.5	All day	4.0
	eLN	15 04.2		27	.5	" "	4.0
23	ePE	18 09 09	$\Delta 39.2^\circ$	28	.5	" "	4.5
	eS	18 15 07		29	.5	" "	5.0
	eL	18 20.5		30	.4	" "	5.0
24	cPR <sub>1</sub>	21 53 20	$\Delta 100.5^\circ$	31	.3	" "	5.0
	cSKS	21 59 50					
	cPS	22 01 10					
	cSR <sub>1</sub>	22 07 58					
		15 41 10	$\Delta 100^\circ$				
				(27)	iPR <sub>1</sub>	15 45 15	
					iSKS	15 51 45	
					iPS	15 53 57	
					cSR <sub>1</sub>	15 59.5	
					eL	16 15.5	
				30	e Z	7 43 54	
					e L	7 48 32	
					e	7 51 53	
					eL	7 55.5	

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SEISMIC BULLETIN FOR SEPTEMBER 1931.

QUAKES				MICROSEISMS			
Day	Phase	Time		Day	Max. Amp. (mm)	Approx. Time	Period
9	eP	13 47 59	$\Delta 38.2^\circ$	1	.2	All day	4.6
	ePR <sub>1</sub>	13 49 22		2	.3	" "	7.0
	eS <sub>E</sub>	13 53 50		3	.3	Last 3 qrtrs	4.0
	eSR <sub>1</sub>	13 56 12		4	.4	All day	4.2
	eL	13 57.6		5	1.0	Latter half	6.8
9	eP	20 52 39	$\Delta 108.9^\circ$	6	.8	First quarter	6.8
	eP'	20 56 20		7	.4	Last 3 qrtrs	3.2
	iPR <sub>1</sub>	20 57 15		8	.3	All day	4.0
	iSKS	21 03 00		9	.4	" "	4.0
	iPS	21 06 25		10	.5	" "	4.5
	eSR <sub>1</sub>	21 12 27		11	.8	2nd quarter	5.0
	eL	21 31		12	.8	Latter half	4.6
12	e(P) <sub>N</sub>	15 48 40	$(\Delta 44^\circ)$	13	.8	First half	4.6
	e(S) <sub>NE</sub>	15 54 08		14	.4	First quarter	4.5
	eL	16 01		15		Negligible	
21	eSKS	2 44 10	$\Delta 97.2^\circ$	16	.4	Latter half	2.4
	eS	2 44 59		17	.3	First half	3.8
	ePS	2 46 17		18	.6	Last quarter	4.0
	eL	3 07.8		19	2.1	11h 13m	5.0
				20	1.9	18h 05m	5.0
21	e	10 47 38		21	1.4	First quarter	5.0
	e	10 53 14		22	1.1	First half	5.0
	e	10 57 22		23	.6	First quarter	6.0
	eL	11 23		24	.3	First half	4.0
				25	1.5	Last quarter	4.0
				26	3.0	Last hour	5.0
				27	2.9	First hour	5.0
21	e <sub>E</sub>	13 56 40		28	1.5	All day	irreg.
	i <sub>E</sub>	13 01 58		29	2.5	3rd quarter	6.0
	e <sub>NE</sub>	14 12 20		30	2.6	Last quarter	7.2
	eL?	14 28					
25	iP'	6 19 22	$\Delta 143^\circ$				
	iPR <sub>1</sub>	6 22 42					
	iSKS	6 26 15					
	SR <sub>1</sub>	6 41 50					
	eL	7 07+					
26	e <sub>NE</sub>	20 01 48	Two shocks.				
	i <sub>N</sub>	20 08 20					
	i <sub>EZ</sub>	20 11 00					
	M	20 24+					

FORDHAM UNIVERSITY

NEW YORK CITY

SEISMIC BULLETIN FOR OCTOBER 1931.

				MICROSEISMS				
Day	Phase	Time			Day	Max. Amp. (mm)	Approx. Time	Period
1	ePZ	11 52 35		$\Delta 34.8^\circ$	1	.9	All day	7.0-5.0
	eS	11 58 02			2	1.4	Latter half	5.0
	eSR <sub>1</sub>	12 00 10			3	1.3	All day	5.5
	eLN	12 02+			4	1.0	First half	6.0
3	iPR <sub>1</sub>	19 34 00		$\Delta 125^\circ$	5	.6	All day	4.3
	iSKS	19 39 26			6	.4	" "	4.5-5.5
	iPS	19 44 12			7	.5	" "	4.7
	iSR <sub>1</sub>	19 51 28			8	.7	" "	5.2
	eL <sub>EZ</sub>	20 11			9	1.2	Latter half	4.8
5	eNZ	22 43 25			10	.5	All day	4.6
	eN	22 51 41			11	.7	First half	5.0
	eNE	22 57				.4	Last 4 hrs.	3.0
10	eP <sub>E</sub>	0 35 27		$\Delta 121^\circ$	12	1.0	Second quarter	3.0
	eP <sub>EZ</sub>	0 38 59				1.0	Last quarter	5.0
	SKS <sub>NE</sub>	0 46 00			13	2.2	21 <sup>h</sup> 38 <sup>m</sup>	6.0
	eFS	0 50 30			14	2.8	07 <sup>h</sup> to 15 <sup>h</sup>	5.8
	iSR <sub>1NE</sub>	0 57 00			15	1.0	Third quarter	5.5
	L <sub>NZ</sub>	1 17			16	.6	All day	irreg.
10	eNZ	16 48 44			17	1.8	Last quarter	3.0-5.0
	eL	16 58 09			18	1.9	Last 3 qtrrs.	4.0-8.5
	eL <sub>E</sub>	17 12			19	1.8	First quarter	8.0
13	e	4 49 50			20	.9	All day	4.8
	eE	4 54 35			21	1.2	Latter half	5.6
	eN	4 57 00			22	1.6	01 <sup>h</sup> 36 <sup>m</sup>	6.0
26	eP <sub>E</sub>	4 31 52		$\Delta 34.5^\circ$	23	1.2	All day	6.8
	BPRL <sub>E</sub>	4 32 56			24	1.3	" "	6.4
	eS <sub>W</sub>	4 37 18			25	1.1	First quarter	6.0
	eL	4 42+			26	1.6	Last quarter	5.0
					27	1.8	First 3 qtrrs.	5.0
					28	1.4	First quarter	5.4
					29	1.8	Latter half	5.2
					30	1.9	First quarter	5.2
					31	1.4	Third quarter	5.6

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SEISMIC BULLETIN FOR NOVEMBER 1931.

			MICROSEISMS				
Day	Phase	Time		Day	Max. Amp. (mm)	Approx. Time Period	
2	iP <sub>NZ</sub>	0 38 23	Δ 32.4°	1	1.2	First quarter	5.5
	iPR <sub>1Z</sub>	0 39 23		2	1.0	All day	5.5
	iS <sub>NL</sub>	0 43 34		3	1.0	" "	5.0
	iL	0 47.8		4	.8	" "	5.0
2	eP	10 17 00	Δ 102.6°	5	.5	" "	irreg.
	ePR <sub>1</sub>	10 21 15		6	.9	Last 3 qtrts.	"
	ePR <sub>2</sub> NZ	10 30 20		7	.8	All day	"
	eSR <sub>1</sub>	10 36 02		8	1.2	Final quarter	5.5
	eL <sub>Z</sub>	10 54		9	1.3	First half	5.5
					10	.8	" "
2	eP' <sub>Z</sub>	17 24 35	Δ 111.4°	11	.5	All day	6.0-5.0
	ePR <sub>1</sub>	17 25 34		12	.8	" "	5.0
	eL <sub>Z</sub>	18 10+		13	.8	" "	5.0
				14	1.8	Latter half	5.2
5	e	7 06 38		15	2.4	Second quarter	5.2
	e	7 10 28		16	1.9	First quarter	5.5
	eL	7 12+		17	1.2	" "	5.0
5				18	.9	First half	5.0
	e	12 43 38		19	1.3	First 3 qtrts	4.8
	e	12 56.8		20	.8	First half	4.5
	eL	13 03.8		21	.5	All day	5.0
				22	.8	Last quarter	4.5
				23	.8	All day	5.0
18	e <sub>1</sub>	3 57 10		24	.8	" "	5.0
	e <sub>2</sub>	4 00 40		25	.9	First quarter	5.0
	e	4 11		(1.4	Last hour	3.0	
	eL	4 30.6		26	2.4	First quarter	3.8
				27	1.7	All day	4.6
20	e	14 42 06		28	2.0	First 3 qtrts	5.5
	cSR <sub>1</sub>	14 53 46		29	1.1	First half	irreg.
	eL	15 16.5		30	.5	All day	3.0-5.0

SEISMIC BULLETIN FOR DECEMBER 1931.

MICROSEISMS

Day Phase Time

24 i(P) 3 50 45  
 i N 3 57 33  
 i NE 3 58 15  
 L? 4 06  
 M 4 08.9

Clock  
 correction  
 uncertain.

Day	Max. App. (mm)	Approx. Time	Period
1	(.7)	Third quarter	3.0
	(1.0)	Last quarter	6.0
2	1.7	Letter half	5.0
3	2.2	Last quarter	6.0
4	2.7	Second qtr	6.0
5	(1.6)	First quarter	6.0
	(3.1)	Last "	4.8
6	6.9	" "	6.5
7	6.5	First "	6.5
8	3.2	Second "	5.8
9	2.5	First half	5.4
10	1.1	All day	irreg.
11	1.0	Letter half	4.5
12	1.2	At 20 <sup>h</sup>	6.4
13	.9	All day	6.5
14	.8	" "	5.0
15	2.0	" "	irreg.
16	3.8	Last quarter	6.5
17	3.5	First half	6.5
18	2.5	" quarter	6.0
19	3.1	At 19 <sup>h</sup>	5.5
20	2.3	Second qtr	5.5
21	2.0	First quarter	5.5
22	1.0	Mid-day	irreg.
23	1.4	Last quarter	5.5
24	1.4	All day	irreg.
25	2.0	Last quarter	4.0
26	2.6	1st, 4th qtrs	4.0
27	3.7	Last quarter	5.5
28	4.0	First quarter	5.8
29	3.3	Second "	5.5
30	5.7	At 08 <sup>h</sup> 55 <sup>m</sup>	6.0
31	4.5	Third quarter	6.0