

# TORONTO



From the ISC collection scanned by SISIMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
DECEMBER, 1926, continued.							
16th.	LE LE FE	( 1-20-00 ( 1-23-00 2-04			3?		NS record not distinct.
17th	EN LN FN	7-10-15 7-12-45 7-48	17	4			
17th.	Slight irregularity from 12h 12m 38s to 12h 40m on NS record, wind on EN.						
19th	L) L)	9-35-39 9-36-30			3		Irregular waves. F, marked micros.
22nd.	LE LE F?	4-41-00 4-42-46 4-59			6		Time shutter not working on NS component.
25th	LN LE ME LE	7-39-15 7-44-31 7-50-25 7-56	15 20	4 9 4			Micros active F obscured by micros and wind.
27th	LN LN	10-12-35 10-14	17?	6			More pronounced on NS. F masked by micros.
29th	LN MN FN	8-48-58 8-49-28 8-57	12	4			More pronounced on NS record, looks like a local quake.

James Young,  
Seismologist.

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## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 79 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
JANUARY 1927, continued.							
19th.	LN	2-41-00	13	6			
	LE	2-43-13	10		4		
	FN	2-55-00					
19th.	Small quake at 5h 01m 38s.						
20th.	O	10-57-27					
	ePAN	11-07-25					
	iN	11-07-38					P barely visible.
	iSE	11-15-27					6480 m.
	iEN	11-16-15	8		10		
	LE?	(11-22-00	15		2		Irregular waves.
	LE	(11-26-12					
	PE?	12-27-00					
24th.	eE	1-25-45					
	eE	1-31-22					
	eN	1-35-35					
	iE	1-36-00	15				
	eN	1-40-00					
	iE	1-42-28					
	LE	1-55-10					
	eLE	2-02-24	45				May be a dual quake.
	iLE	2-06-55					
	ME	2-10-15	20		66		
	M2E	2-14-24	17		50		
	ME	2-09-47	20	37			
	LE	2-42-15	15				
	M2E	2-44-00	15		12		
	F	4-40-00					
24th.	eE	7-08-08					
	eE	7-12-10					
	eE	7-19-22					
	eN	7-35-15					
	LE	7-42-00	22				
	LE	7-43 to	15	0			
		8-20-00	22		11		Sinusoidal.
	F	9-43-00					
25th.	Small movement at 8h 19m 38s, may not be seismic.						
25th.	LE	8-56-00					
	LE	8-58-22					
	LE	9-01-00			2		
25th.	Small quake at 9h 00m.						
25th.	LE	13-14-00					
	LE	13-18-17	10		2		Wind masks P <del>xxxxxx</del>
26th.	LN	0-08-00					
	MN	0-13-37		3			Micros & wind inter-
	MN	0-20-00	17	3			fero with early phases
26th.	LE	16-37-00					Paper started at 16h32m
	ME	16-39-24	18		11		
	LE	17-58-08	15		2		May be another quake.
							Wind at E.
30th.	Very small record on NS from 9h 40m 30s to 10h 16m.						
31st.	Wind interferes with quake 0h 44m to 1h 30m.						
31st.	eN	3-24-16	LN 8h 34m 47s.				LN 8h 35m 05s. amp. 4 microns.
31st.	Small quake with L 8h 35m 05 s. Period 13 sec. amp. 4 microns.						



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LATITUDE, 43° 40' 0.8" N. LONGITUDE, 79h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

PERIOD 12 SECONDS

MAGNIFICATION 7.50

INSTRUMENTS—Two Milne-Shaw Seismographs

DAMPING, 20-1

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				N	E	Z	
1927.							
FEBRUARY.							
1st.	eN	4-12-22					
	eE	4-14-38					
	LN	4-23-08		2			
	F	4-33					
1st.	eE	18-16-45					
	eE	18-22-08					
	iE	18-26-44					
	eN	18-26-38					
	eE	18-28-25					
	eE	18-33-33					
	LE	18-54-00	30				
	ME	19-01-38	20		30		
	ME	19-01-57			30		
	MN	18-57-40	24	40			
	F	20-39-00					
3rd.	eE	4-44-00					
	(LE	4-46-50					
	(LE	4-49-35	19		7		
	LE	4-51-27	18		7		Looks like 2nd quake.
	F	6-16-00					
4th.	LN?	3-42-23					Heavy gale intererred with
	LN	3-44-21		2			EW component. F.Micros.
11th.	Small	record from 1h 53m 38s					to 2h 10m.
11th	eE	3-54-33					Beginning very similar to
	LN	3-55-32	10	2			previous quake.
	LE	3-58-22			1		
	F	4-07-00					
11th.	Small	record from 17h 22m					to 17h 52m
12th	Small	record from 2h 23m 10s					to 2h 48m.
12th	eN	9-14-12					Wind interferred with EW.
	LN	9-14-38		2			
	FN	?9-24-00					
14th.	iN	4-03-06					Wind interferences with F,
	LN	4-17-00					and EW component.
	LN	4-24-00	15	3			
16th	eN	0-12-12					
	<del>LF</del>	0-15-36	10		2		
	F	0-18-00					
16th	O	1-35-25					
	ePN	1-47-26					
	ePE	1-47-27					
	iSN	1-57-25					
	(eSE	1-57-18					
	(iSE	1-57-23					
	LE	2-12-40					
	MN	2-25-05	15	30		8780	
	ME	2-26-00	15		47		
	F	6-20-00					

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Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
February, 1927 (continued)							
16th	eE LE FE	8-58-38 9-27-00 10-07-00			2		
16th	eE LE) LE) FE	12-14-38 12-42-00 12-46-00 13-35-00	15	2			
16th.	Slight	record 14h 49m to 15h 10m.					
18th.	Slight	record from 23h 38m 15s to 0h 25m of 19th.					
19th	Slight	record from 4h 45m to 4h 57m.					
21st.	eE LN?	13-30 13-37-00					F. micros. Wind & micros interfere with EE.
23rd.	Slight	record from 3h 47m to 4h 03m.					
24th	eE eE LE MN F	4-25-50 4-28-13 4-34-00 4-36-15 5-10-00	15 15	12			
25th	LE) LE) LN FN ?	16-42-26 16-50-28 16-45-38 17-12-00	22 17		4		
26th	LEE ME FE	3-07-00 3-08-00 3-29-00	15?		4		Heavy SW wind mask phases.
27th	LN MN F	4-15-38 4-20-26 4-47-00	11	5			
28th	O ePN eSE) iSN) iSE ?SRE eE LN MN FE	14-08-21 14-19-26 14-28-30 14-28-33 14-28-36 14-34-06 14-37-24 14-44-28 14-47-28 17-14-00	18 27	23			7690 Wind interferes with P on EE component.

James Young,  
Seismologist.





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LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

PERIOD 12 seconds  
MAGNIFICATION, 150  
DAMPING 20-1

INSTRUMENTS—Two Milns-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
		h. m. s.	s.	μ	μ	μ	
1927 March.							
1st.	eN	3-12-10					
	eE	3-17-27					
	EN	3-27-38	12		9		Quake reported SE section of Cuba.
3rd	eEN	1-28-20					
	iEE	1-50-50					
	MN	2-20-10	23	26			Marked micros interfere with F.
	ME	2-20-38	22		22		
	M2N	2-20-42	230	245			
	LN	2.55-00					This phase may be another quake.
5th	eE	4-22-22					
	iE	4-22-35					
	EE	4-25-08					
	iEE	4-27-13					
	ME	4-27-45	11		4		First phase more pronounced on NS.
	F	5-21-00					
6th.	iN	1-45-40					
	iE	1-45-45					
	EE	1-49-08					
	EE	1-50-06	20		8		
	EE	2-35					
7th	eN	9-40-51					
	PRLN	9-44-50					
	iSN?	(9-51-38					
	iSN	(9-52-17					
	SE	9-51-38					
	iE	(9-52-15	11		7		
	iE	(9-53-28					
	iN	9-53-30					
	iN	9-58-47	13				Japanese quake.
	LN	10-11-08					P very weak, small micros going on.
	EE	10-11-00					
	ME	10-26-58	17		143		
	MN	10-28-05	17	114			
	FN	13-25					
9th	LN?	16-55-15		2			L going on at 16h38m when fresh paper was put on cylinder.
	FN	17-27					
11th.	EE	16-42-00					
	EE	16-49-20			2		
	FE	17-00-00					
12th.	Small	quake from 7h 45m 22s to 7h 49m.					
12th	Small	quake with L at 19h 08m to 19h 10m 15s.					
13th	eN	5-48-15					
	LN	5-58-24	25				
	LN	6-01-10	20	20	4		Micros interfere with EW record.
	FN	6-50					
15th	eE	10-54-15					
	LN)	10-57-18					
	LN)	11-01-20	15	4			
	LN)	11-04-08		3			
	FN	11-26					

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Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
1927 March, continued.							
15th	IE	22-55-15					
	IE)	22-47-00			2		
	IE)	22-55			3		
	FN	23-22					
18th	Small quake 22h49m to 23h 12m						
19th	Small disturbance 0h11m45s to 0h 15m, may not be seismic.						
20th	Small quake 16h 31m 55s to 18h 12m, amplitude 1 micron.						
21st.	iN?	9-14-48					
	LN)	9-23-11		1			
	LN)	9-27-34		2			
	FN	9-49					
21st.	eN	10-17-19					
	LN	10-34-41					
	IE)	10-37-11					
	IE)	10-39-00					
	MN	10-37-49	19	7			Wind interferes with phases of EW
	FN	?11-21					
21st.	LN	16-13-38					
	iN	16-18-10					
	LN	16-23-00					Papers put on at 16h 52m
	LN	16-30-25		7			
22nd	eE	1-17-54					
	LE	1-29-36					
	ME	1-37-45	15		6		
	F	2-52					
22nd.	IE	(8-41-00					
	IE	(8-51-14			3		
	F	9-19					
23rd.	IE	(10-10-36					
	IE	(10-16-00			2		Wind interferes with phases.
	FE	11-11					
25th	IE	4-04-27					
	F	4-22			3		
25th	iEN	13-10-55					
	LN	13-19-25	30				The long waves at 19m
	MN	13-25-00	15	11			25s are broken by reflections. FN 14h 23m.
28th	iLN	8-13-08					
	LN	8-13-38	8	3			LE 8h.15m.
	IE	8-18-00	8		3		FE? 8h 28m.
30th	Small quake with L at 7h34m41s and F at 8.10m.						
30th	IE	8-16-24					
	LE	8-19-31	8		2		Small irregular waves. F 8h.39m.
30th	eN	14-33-34					
	LN	14-58-00	15	2			
	FN	15-19					
31st.	Small quake with L at 22h02m30s; F 22h 29m.						



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Time: G. M. T. MIDNIGHT TO MIDNIGHT

Period 12 Seconds.

INSTRUMENTS—Two Milne-Shaw Seismographs Magnification, 150

Damping 20-1

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
		h. m. s.	s.	μ	μ	μ	
April, 1927.							
1st.	LN	0-43-25					
	LN	0-44-15	10	2			EW only slightly marked
	F	0-54-00					
1st.	eN?	19-23-03					
	iE	19-31-45					
	iN	19-31-47	5	10			
	iE	19-34-13					
	iN	19-34-32					
	iN	19-39-25					
	eN	19-50-37					
	LN?	19-56		3			
	FN	21-50					
6th	iEN	19-09-14					May not be seismic.
6th.	iN	19-29-54					
	LN?	19-34					High wind effect EW
9th.	iN	17-10-49.	Wind				and micros effect other phases.
9th. I	LN	21-38-15					Micros at F.
13th	LEN	14-21-00		2			Slight trace at 15h21m when paper changed.
14th	O	6-23-34					
	iPN	6-35-13					
	iPRLN	6-38-45					
	iSEN	6-44-50	8	34	23		ePE6h35m13s.
	iE	6-45-30	13	93			iPE 6h35m15s.
	iE	6-45-40	12		95		Chilian Eq.
SR2E	BR2E	6-53-35					Some very rapid vibrations on NS from 6h35m44s to 6h36m35s.
	LN	6-57-17					8340 km. L waves very irregular.
	LE	6-58	20				
	ME	6-58-25	20		76		
	LE	7-00	15				
	F	10-13-					
15th	eN	10-59-15					
	LN	11-02-15		2			
	FE	11-14					
							LE { 11h 02m 30s u
							LE { 11 05 08 2
16th	O	8-14-24					
	PEN	8-25-05)					P very weak.
		8-25-23)					
	iSN	8-33-47					
	iN	8-35-12					iS on EW 8h33m43s
	eLN	8-44-19					
	MLE	8-49-24	17		47		7180 km.
	M2E	8-53-10					
	MN	8-55-15	18	30			
	LE	9-00	12		36		
	F	11-58					

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INSTRUMENTS—Two Milne-Shaw Seismographs

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE				REMARKS
				A N	A E	A Z		
		h. m. s.	s.	μ	μ	μ		
April, continued.								
18th.	eN	14-02-23						
	LN	14-35		2				
	PN	15-25						
19th.	eN	17-50-36						
	LN	( 18-06						
	LN	( 18-07-08		3				
	PN	19-14-00						
27th	eE	3-09-45						
	EE?)	3-19-12	10					
	EE?)	3-19-33	10		2			
	PE	3-40						
27th	eE	3-49-23						
	EE	3-50-23			1			
	PE	4-31						
27th	eE	14-08-20						
	EE	14-18 to	15 to					
		14-30-30	10		2			
	PE	15-11						
27th	Small quake from 22h 13m 21s to 22h 39m.							
29th	Small quake from 11h 38 m to 11h 51m. Wind interferes							
30th	EE	( 14-47-00						
	EE	( 14-51			2			
	PE	?15-28						

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Seismologist.



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Time: G. M. T. MIDNIGHT TO MIDNIGHT

Period 12 seconds.  
Magnification, 150

Damping 20-1

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
1927. MAY. 1st.	eE LE F	3-54-15 3-57 4-07		μ	μ	μ	Not shown on NS component.
2nd.	Small	quake from 11h 42m 27s to 11h 56m.					
3rd.	LE) LE) F	14-50-15 14-53 15-30			2		
5th.	Small	quake 15h 25m 23s to 15h 31m.					Barely noticeable on NS.comp.
7th.	iE iE LE? FE	(8-36-49 (8-37-14 8-37-30 8-39	3				Minute jog. L barely discernable. Reported from Memphis.
7th.	eE LE ME FE	22-12-07 22-13 22-15-25 22-49	13		3 5		
9th.	Small	quake at 11h 34m 10s, with micros at F.					
9th.	ePN iN eN LN MN ME ME F	20-12-15 20-17-35 20-19- 20-25- 20-26- 20-21-24 20-22-30 Micros.	21 12? 8	53	15 ?14		Early phases masked by micros and wind.
10th.	Small	quake 7h 28m to 7h 55m					
11th.	LE LE	2-22 2-23-23	22		2		F, micros.
13th.	eE LE FE	0-44-30 0-45-23 0-53	15		2		
13th	eE LE LN LN FE	23-36-23 (23-45 (23-46-30 ( 0-23-15 0-04-30 0-11-26 to 0-18 1-20	Slow 3		1 2		
15th.	Small	quake from 3h 07m 15s to 3h 56m.					
16th	eE eE LE	12-25-17 12-32-32 13-00-23	17		5		Paper off 14h

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INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
MAY 1927 (continued)							
19th	eE	5-38-32					
	eSE	5-40					
	LE	5-44-30					
	ME	5-46-44	?17		12		
	MN	5-51-52	17	7			
	FE	6-35					
21st.	eN	17-16					
	iN	17-20					
	eN	17-21-51					
	eLN	17-43-52					
	FN	18-34					Wind interferes with EW.
22nd.	eN?	1-55-36					
	iE	2-04-07					
	eE	2-05					
	LN?	2-06-05					
	FN	3-35					
22nd.	O	22-32-34					
	ePN	22-46-28)					
	ePN	22-46-32)					
	eE	22-47-23					
	iN	22-50-27					
	iN	22-50-45					
	eN	22-57-00					
	eE	22-57-45					
	iScPcSN	22-57-16	10	33			
	iSE?	22-58-07					
	iSN?	22-58-13	10				
	iN	22-59-32					
	iN	23-05-00					
	iN	23-05-08					
	iN	23-05-17	30	422			
	iN	23-09-49	24				
	iN	23-12-25	22-25				
	iE	23-12-30	18		112		
	iLN	23-25-45	25	334			
	ME?	23-29	15		310		
ME	23-33-32	15		194			
MN	23-37	15					
MN	23-38-22	15	262				
FN	4-34						
23rd.	Small quake 14h 46m to 15h 13m						
23rd.	Small quake 23h 23m to 0h 16m.						
24th	Small quake 0h 32m to 1h 12m						
28th	Small quake 2h 09m to 2h 49m.						
31st.	eN	13-12					
	LN)	13-22					
	LN)	13-28-45					
	FN	?13-45		2?			Wind interferes with NW record.

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Seismologist.



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LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs PERIOD 12 Seconds

MAGNIFICATION, 150

DAMPING 20-1.

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
1927 JUNE 2nd.	LE LN LE LN FN	17-34-23 17-36-00 17-49-15 17-50 18-24			2		
3rd.	iE? iE? eN iE? eN iN iN iE iE iN LN (MN (MN ME ME FN	7-31-07 7-31-25 7-31-25 7-33-56 7-33-56 7-34-30 7-40-38 7-40-42 7-41-08 7-43-48 7-52-00 8-17-45 8-20-16 8-18-44 8-29-08 11-28	4 4    9 12 15 32 32 30 17	36 152 180	146 45		Reading at 7h31m07s may be caused by micros.  Large irregular waves at intervals.  US. Geodetic Survey gives 6 degrees S. 133 East.
6th	eN eN LE LN LN LE	18-54-10 19-00-30 19-22 19-24-30 19-27 19-27-22		2	3		F indefinite.
9th.	Small	disturbance with L at 22h 59m 50s, rather doubtful as record gives no time marks.					
10th.	eN LN FN	17-23-23 17-38-23 18-20	15	3			Wind interferes with EW record.
11th.	Small	quake with L 8h20m to 8h23m, period 10 seconds. Time s doubtful, no time marks.					
12th.	Very	small quake from 2h39m50s to 2h48m.					
13th.	eE eE FE	17-32-25 17-36-23 17-43					
14th.	eE LE LN LN FN?	18-32-28 (18-34 to (18-46-30 18-36-15 18-40-30 18-45-30 ?19-36	19	5 3	3		
17th	eE iN LE? LE FE	6-20-20 6-20-23 6-32-20 (6-37-35 to (6-42-45 7-18			2		
18th.	eE LE FE	10-34-10 10-37 10-59-00	2				



# TORONTO

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
June 1927, continued.							
18th.	LE	16-17 to 16-18			3		
	FE	16-32					
	LN	16-16-00					
19th.	eE	0-39-10					
	LE	0-44-23			2		
	FE	1-05					
19th.	LN	16-44-22	13	3			
	FN	17-00					
20th.	LN	15-00-30					
	LN	15-09					
	MN	15-14	15	2			
	FN	16-00					
22nd.	Slight disturbance from 1h 03m 22s to 1h 28m, more noticeable on EW component.						
24th.	eE	0-33-30					
	LE	0-39-43					
	FN	0-54					
26th	eE	11-42					
	LE	12-00-23					
	LE	12-07	22		3		
	FN	13-04					
28th.	LE	18-00			2		
	FE	?18-27					Only a trace on NS record.
29th.	Small disturbance from 18h 04m 30s to 18h 17m.						
29th	"	"	"	22h 28m	to 22h 54m.		
30th.	"	"	"	22h 40m	to 22h 55m, on EW chiefly.		

James Young,  
Seismologist.



# TORONTO



From the ISC collection scanned by SISMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT Period 12 Seconds.

INSTRUMENTS—Two Milne-Shaw Seismographs Magnification, 150  
Damping 20-1.

NO. AND DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD <small>s.</small>	AMPLITUDE			REMARKS
				<small>A N</small> <small>μ</small>	<small>A E</small> <small>μ</small>	<small>A Z</small> <small>μ</small>	
1927 July. 1st.	eE LE LE ME	?13-31 ?13-52 ?13-58 ?14-04-30			3		Times very doubtful. Time-marks failed.
3rd.	Small	record 9h 22m to 9h 58m.					
3rd.	eE LE ME	11-02-21 11-27 11-31-30			?3		Wind interferes with P.
4th. 6th 7th. 8th.	Small Small Small Small	record 15h 46m 30s to 16h. quake 0h 22m to 0h 32m quake 21h 02m to 21h 38m. record 17h 49m 45s to 18h.					
10th.	LE LE FE	5-04-10 5-06-10 5-34			2		
10th.	Very small	record 12h 05m 15s to 12h 22m.					
11th.	eE eE eN LE FE	8-31-35 8-32-20 8-32-28 9-02 9-14					
11th	eN LN LN LN FN	13-27-13 13-47-15 13-49 13-59 15-15	23 2				
12th.	O ePN iN iSN LN LN FN	21-08-05 21-20-17 21-20-45 21-30-26 21-47 22-04 23-04			2		8980 Wind interferes with early phases EW,
14th	eE eN eN LN FN	13-12-14 13-14-38 13-17-22 13-18-45 to 13-20-30 13-55	12	5			
14th	O ePN eSE eSN LE eLN FN	23-27-30 23-36-52 23-44-15 23-44-20 23-53 23-54-39 1-19			3		5860

# TORONTO



From the ISC collection scanned by SISMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
July, 1927	continued.						
15th.	eE	18-46					
	LE	18-49					
	LE	18-50-15	23		6		
	LN	18-52-30		2			
	F	19-23					
15th	eN	22-28					
	ME	22-29-38	8		2		
	FE	22-55					
16th.	eN	1-45-22					
	LN	1-54					
	LE	1-57-15			2		
	LE	1-58			3		
	LN	1-59-30		2			
	FE	2-14					
16th.	Small quake from 2h 38m to 2h 49m						
17th	Small quake from 11h 24m 38s to 11h 42m.						
18th.	eE	11-40					
	iE	11-46-51					
	LN	12-14					
	LN	12-22	22	3			
	LE	12-18 to	23to				
		12-33	15		5		
	FE	?13-43					
22nd.	eN	4-18-46					
	LN	4-34					
	ME	4-51-15	17		9		
	FE	6-44					
23rd	eN	20-43-20					
	LN	21-10		1			
	LN	21-14-10		2			
	FE	22-13					
23rd.	Small record from 23h 04m 30s to 0h 24m						
25th.	Small disturbance from 23h 35m to 23h 54m						
28th.	O	16-17-43					
	iPEN	16-26-41					
	iSE	16-33-49					
	ME	16-47-35			17		5470
	LN	16-44-45					
	FE	18-38					
29th	eN	1-02					
	LN	1-16-21		2			
	LE	1-30-23			2		
	FE	1-45					
30th.	Small disturbance from 0h 39m to 1h 04m.						
30th.	Small quake 15h 08m to 15h 31m.						
31st.	Small record 18h 03m to 18h 23m.						

James Young,  
Seismologist.



# TORONTO



From the ISC collection scanned by SISMO5

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 46' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs  
 PERIOD 12 seconds  
 MAGNIFICATION, 150  
 DAMPING 20-1.

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
AUGUST 1st.	eE	11-40-45		μ	μ	μ	
	eE	11-47-50					
	iE	11-47-52					
	iE	11-49-13					
	LE	11-56-41					
	ME	11-57-11			3		
	FE	12-26					
1st.	eE	17-24-20					
	eN	17-24-45					
	LN?	17-38-32					
	MN	17-44-43	18	12			P lost in next quake.
1st.	eN	19-05-00					
	LN	19-16					
	MN	19-25-45	19	22			
	ME	19-21-25	22		20		
	LE	19-44-00	15		3		
	FN	21-04-00					
2nd.	eE	1-02-00					
	eN	1-02-15					
	eN	1-02-41					
	LN	1-05-38					
	LN	1-06-15	23	7			
	ME	1-11-26	15		4		
	FN	2-01-00					
3rd.	Small quake from 20h 45m 30s to 20h 55m, more marked on NS compon.						
4th.	Small quake 0h 40m 30s to 1h						
4th.	Small quake with L at 12h 41m 15s, barely shown on EW.						
4th.	Small quake 16h 11m 45s to 17h 20m.						
4th.	eN	22-38-10					
	LN	22-40-00		2			
	FN	22-54-00					
4th.	Small quake 23h 37m to 23h 48m.						
5th.	eN	3-58-03					
	LE?	4-01-30	15				
	ME	4-04-52	15		3		
	FE	4-26-					
5th.	O	21-13-05					
	PN	21-25-58					
	PE	21-26-00					
	PR <sub>1</sub>	21-29-30	6				
	iN	21-36-25	8				
	iSN	21-36-47					9810 km. Japan.
	iSE	21-36-50	5				P came in at eclipse of light.
	LE	21-55-45					
	LN	21-56-32					
	ME	22-05-08	17		29		Rapid oscillations at max.
5th.	M1N	22-05-23		18?			
	M2N	22-14-47	22	30			
	FN	0-21					
6th.	O	0-13-55					
	PEN	0-22-51					
	SEN	0-29-57					
	LN	0-38-22					
	MN	0-43-51	18	17			5440 Alaska
	FN	2-25					P weak.

# TORONTO



From the ISC collection scanned by SISMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
				μ	μ	μ	
AUGUST, 1927, continued.							
8th.	LN	0-52-34		2			
	LN	0-53-00					
	FN	0-58					
8th.	eN	4-05					8th. iE 1-18-43
	LN	4-12		2			LE 1-32
	FN	4-23					FE 2-19
8th.	eN	19-05-38					
	eN	19-08-04					
	eN	19-09-08					
9th.	eN	1-33-23					Sinusoidal L waves
	LN	1-40-00					1h 41m to 1h46m45s
	FN	2-24-00					amp. 3u
9th.	Slight record from 16h 02m to 16h 16m						
10th.	O	1-35-13					
	iPN	1-42-29	3				
	ePE	1-42-34					
	PRIN	1-44-00	8				
	iSN	1-48-14					
	iSE	1-48-12	10				
	LN	1-51-31					
	MN	1-59-42	15	75			
	ME	1-55-58	15		252		
	FN	4-50					
10th.	eE	10-10-13					
	LE	10-13			2		
10th.	eE	11-57-24					
	eN	11-57-27					
	iE	12-04-18					
	iE	12-10-18					
	M1E	12-47-18	22		62		
	M2E	12-47-37	22		62		
	MN	12-49-00	22	70			
	FN	15-16					
10th.	eN	18-14					
	LN	18-19	23	2			
	FN	18-37					
11th.	Small record from 6h 14m to 6h 42 m.						
12th.	iN	0-56-32					
	iN	1-00-06					
	eE	1-08-38					
	FE	?1-28					
12th.	Small quake from 10h46m to 11h40m.						
18th	eN	19-41-15					
	eN	19-51-55	8				
	LN?	20-07-45	15				
	eLE	20-22-25	15		12		
	MLN	20-25-15	15	11			
	M2N	20-35-11	15	12			
	M3N	20-46-26		6			
	FN	23-16-00					
20th.	Very slight record from 0h20m to 0h 27m on NS component.						



# TORONTO

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
AUGUST 20th.	continued.							
	eN	20-20-08						
	eE	20-23-15						
	LE	20-25-08	10		2			
	ME	20-27-17	8		3			
	FE	20-53						
21st.	O	23-54-22					4140	4° N 82° W
	iPN	0-01-50						
	ePE	0-01-55						
	iN	0-03-29	8	17				P on NS well defined,
	iSN	0-07-45						
	LN	0-11-15	8	18				
	M1E	0-13-58			454			
	M2E	0-14-04	17					
	MN	0-17-13	15	48				
	F	3-14						
21st.	eN	10-28-08						
	eE	10-32-23						
	LN	10-40-38						
	MN	10-41-30	20	6				
	FE	11-21						
21st.	Small record 23h 07m to 23h 31m on NS comp.							
22nd.	eN	3-06						
	LN	3-14-17						
	LN	3-15	23	3				
	FN	3-31						
23rd.	eE	6-53-12						
	LE?	7-21	10		2			
	LE	7-32-15			3			
	FE	9-03-00						
24th.	eE	9-20						
	LE	9-52-08	23		2			Micros at F.
24th	LE	19-10-15						
	LN	19-13-47						
	MN	19-20-12	15	6				A marked tremor storm masks the movements. F. Micros.
27th.	LN	10-45	8-10	1				
	FN	10-51						
27th.	Slight record from 13h to 13h18m.							
29th.	Small record from 6h31m to 6h 44m.							
29th.	Small quake from 8h33m to 8h 53m more marked on NS component.							
James Young, Seismologist.								

# TORONTO



From the ISC collection scanned by SISIMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SOIL, Sand and Clay  
 PERIOD 12 SECONDS  
 MAGNIFICATION, 150

Time: G. M. T. MIDNIGHT TO MIDNIGHT DATING 20-1

INSTRUMENTS—Two Milne-Shaw Seismographs

No. AND DATE	STATION	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
3rd.	0	19-47-35	.					
	iPE	19-56-00	3	μ	μ	μ		
	iSE	20-02-40						
	iE	20-06-06	11				4960	BERKELEY, CALIFORNIA
	LE	20-08-00						WEST 21 1951
	ME	20-09-38	17		21			
	M2E	20-13-40	15		15			
	ePN	19-56-00						
	iPN	19-56-03						
	iSN	20-02-43	12					
	MN	20-09-30	15	35				
	FN	23-18						
5th		Small record 2h 05m to 2h 51m.						
6th.		Very slight disturbance 2h 42m to 2h 49m.						
6th.		Very small disturbance from 2h 30m 18s to 2h 53m.?						
7th		Small record from 20h 39m 46s to 22h 06s? more marked on EW.						
8th.	eE	18-02-00						
	LE	18-11-15						
	LE	18-20 to						
	LE	18-43-00			2			
	FE	19-33						
9th		Small record 0h 46m to 1h 03m on N & S. component only.						
10th.	iE	3-53-37						
	eE	3-57-18						
	LE	4-08-32	15	2	2			Sinusoidal L waves
	FE	4-38-00						from 4h 12m to 4h 16m
								period, 15.
10th.	LN	17-49-00		1				
	LE	17-52-15			2			
	FE	18-26						
11th	0	22-15-47						
	ePEN	22-27-22						
	eSN	22-36-55						
	iSN	22-37-00						
	eSE	22-37-00						
	iE	22-38-13						
	LN	22-52-15)					8270	
	LN	22-54-23)	30					Looks like a
	MN	23-03-38	15	31	31			dual eq.
	iN	23-06-38	12	14				Asia Minor.
	M1E	23-03-15	15		24			P on EW component
	M2E	23-03-39	12		22			weak.
	FN	1-36-00						
12th.	eN	3-31-46						
	eE	3-40-00	10		2			
	LE	4-03-00	15		2			
	FN	4-47-00						
12th	LN	15-01-00		1				
	LE	15-05-00			2			
	LE	15-11-00			3			
	FN	15-41-00						
13th	LE	11-13-30	30					
	LE	11-14-15 to						
		11-36-23						
	ME	11-16-28	23		10			Sinusoidal waves.
	FE	12-42-00						





# TORONTO

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
1927 SEPTEMBER, continued.								
16th		Very slight record	16h 36m to 16h 49m.					
18th.	LE iE	2-25-38 2-25-52						Micros mask record.
19th.	LE LE	9-36-00 9-42-22			2?			Micros at F.
23rd.	eN FE	14-18-10 ?15-47-00						Paper changed at 14h 28.
23rd.		Small record	18h 06m to 18h 21m.					
24th	LE LE FE	6-53-00 7-00-20 7-17-00			2			
24th		Slight record	14h 22m to 14h 51m.					paper changed at 14h 57m.
24th.	eE LE LE ME FE	17-59-12 18-12-00 18-16-00 18-19-52 Wind interferes.			3			
30th.	LE LE FE	8-29-25 8-33-00 9-13-00			2			

James Young,  
Seismologist.

# TORONTO



From the ISC collection scanned by SISIMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

Period 12 seconds.

Magnification 150

INSTRUMENTS—Two Milne-Shaw Seismographs

Damping 20-1

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
1927. OCTOBER.							
1st.	LE LE FE	0-51-00 0-56-37 ?1-59	15	μ	μ	μ	Only slight trace on NS.
2nd.	O PE eE iSE iSN iE LE ME MN FE	4-47-57 4-54-14 4-55-11 4-59-12 4-59-17 4-59-18 5-02-00 5-02-09 5-04-10 6-07-00	10 8	7	8	3220 3270	S well defined and large on NS.
2nd.	LE LE FE	9-46 9-50-34 10-24	10		2		
4th.	iN iN LE?	0-06-22 0-14-53 0-35-23					
5th.	Very small record from 21h 31m to 21h 37m.						
6th.	Very small record from 22h 44m 30s to 22h 48m.						
8th.	Small record from 13h 16m to 13h 41m.						
11th.	LE LE FE	0-31-08 0-33 ?0-49			2		
11th.	Very slight record from 17h 53m to 18h 30m? mainly on EW compon.						
24th.	O ePN iPN eN iSN iN iN LN MN	15-59-44 16-07-11 16-07-17 16-12-57 16-13-05 16-13-15 16-15-08) 15) 16-16-52) 16-18-13) 16-22-00	8 13 8	43	+500		Alaskan quake. Light-spot off the paper on South side, a number of times. EW clock under repairs.
25th.	LE	18-19-00			3		Micros at F.
27th.	LE LE	8-39 8-41			2		Only a slight trace on NS.
28th.	Small record on EW from 16h 15m to 16h 38m. only a trace on NS.						
30th.	LE LE	3-31-40 3-35-12			2 2		Slightly shown on NS.

James Young,  
Seismologist.



# TORONTO



From the ISC collection scanned by SISIMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT PERIOD 12 Seconds.

INSTRUMENTS—Two Milne-Shaw Seismographs Magnification 150  
Damping, 20-1

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A R μ	A Z μ	
1927. NOVEMBER.							
4th.	O	13-50-55					
	iPE	13-57-35	6				
	PR1E	13-58-36	8				3490
	iSE	?14-02-51					
	#SN	14-02-52					Reported from
	iE	14-03-17					Los Angeles, off
	iE	14-03-39					the Californian
	LE	14-06-10	10				Coast.
	LN	(14-05-32)					
	iLN	(14-07-45)					
	ME	14-11-23	8		+321		
	M2E	14-11-42	8		+341		
	M3E	14-11-58	8		+300		
	FN	?17-30					
6th.	iE	2-57-11	8				
	LN	2-57-23	8				
	ME	3-01-30	8		9		Well defined.
	FE	3-29					
6th.	Slight record from 16h 15m to 16h 45m.						
8th.	iE	3-30-05					
	LE	4-25- to					
		4-43	15		6		
	LE	4-49-15	15		2		May be two quakes.
	FE	5-37					Not so well marked on NS component.
9th.	Small record from 2h 03m to 2h 45m.						
10th.	Small record from 4h 07m to 4h 22m shown on EW only.						
12th.	eN	22-15-23					
	iE	22-15-52	3				
	iE	22-16-10	4		9		
	FN	22-52-00					
14th.	iN	0-22-39					
	iN	6-31-17					
	LN	0-48-09					
	MN	0-54-17	18	16			
	iLN	0-57-46	10				
	FE	?2-04					
14th.	iE	5-15-40					
	LE	5-26-03					
	ME	5-32-25			52		Uniform L waves from
	M2E	5-32-45	21		52		5h 27m49sto
	FN	?6-36					5h 33 45
14th.	O	7-19-24					
	iPN	7-30-56					
	PRIN?	7-34-08					
	iSN	7-40-26					8210 P & S well
	LN?	(7-55)					defined.
	LN	(7-57-09)					
	MN	8-02-15	?17	14			
	(FN	Marked micros.					



# TORONTO

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
NOVEMBER, 1927, continued.							
15th.	eN	8-40-17					
	iE	8-48-07					
	LE	8-55					Irregular L waves.
	LE	9-07	17		4		
	FN	9-49					
15th.	Slight record from 22h 15m 30s to 22h 50m, more marked on EW.						
16th.	eEN	21-30-45					
	eE	21-36-17					
	eE	21-49-25					
	eN	21-37-45					Very irregular waves.
	ME	22-12-52	Irregular.				
	LE	22-15-10					Sinusoidal at intervals.
		22-53			6		
	MN	22-16	23	10			
	LN	22-45	15	4			
	FE	0-15					
17th.	LE	15-35-17			2		Paper changed 10h 40m.
17th.	iN	21-14-10					
	iE	21-15-12	8		2		L waves not pronounced.
	FN	21-37					
18th.	Slight record from 4h 26m to 5h 07m						
18th.	Slight record from 8h 02m to 8h 12m.						
19th.	LE	3-50-38					
	LE	3-53-04			2		
	FN	?3-58					
19th.	eE	6-58-34					
	iEN	7-04-46					
	LE	7-18-32			2		
	FN	8-12					
19th.	LE	8-27					
	LE	8-29			2		
	FE	9-05					
21st.	iE	15-33-20					
	ME	15-33-51	4		13		Early phases interfered with, changing paper.
	LE	15-34-11	6		5		
	FE	16-16					
	LN	( 19-07-19					
21st.	LN	( 19-25					
	FE	19-42					
21st.	O	23-12-43					
	iPN	23-25-18					
	iN	23-28-45	6				
	iScPSN	23-35-50					
	eE	23-35-56					
	iSE	23-36-08					
	iSN	23-36-09					
	iN	23-36-16	10	21			9440 42 South, 70 West.
	iN	23-37-16					
	SRIN	23-42-10					
	ME	23-36-10	8		20		
	PSE	23-37-00	10		8		
	LE	23-50-39					
	LN	23-52-39					
	LN	0-04 51	30				
	to	0-06-30	25	30			
	FN	2-27					



# TORONTO



From the ISC collection scanned by SISIMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SUBSOIL, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
NOVEMBER	1927.	(continued)					
25th.	eN LN F	20-10-23 20-21-52 Micros.					
26th.	O iPN PcPiN iSN iSE iN iE LE LN FN?	12-53-57 13-04-42 13-05-27 13-13-27 13-13-31 13-14-27 13-14-51 13-25-44 13-35-37 14-25	6     10  17	13       2		7320 Tacna, Chili states two strong earthquakes violently felt.  L waves very small amp.	
27th.		Small record from 6h 50m to 7h.					
28th.		Small record from 11h 13m to 11h 31m.					
				James Young, Seismologist.			

# TORONTO



From the ISC collection scanned by SISMOS

## SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

Period 12 Seconds.

Magnification 150

Damping, 20-1

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6 W. HEIGHT, 373 feet above sea level. SURFACE, Sand and Clay

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
DECEMBER 1927.							
1st.	iN iLN iLN FN	5-00-15 5-48 5-58-00 6-35-00	23	1			Wind interferes with EW.
11th.	eE LE LE FN	16-31-23 16-42 16-45 to 16-53 17-27	17 15		3		
11th.	Small	record 17h 48m 15s to 19 h 25m.					
12th	Small	record 14h 20m to 14h 47m.					
12th	eE LE?	18-54-13 18-57					
12th	eE LE LE FE	19-45-17 19-56 20-07 ?20-46	12		2		
24th.	Slight record 4h 51m to 5h 04m on both components.						
27th.	eN LN LN FN	23-43-49 23-53-15 0-04- 0-17-00		2			
28th.	eE LE FN	9-20-15 9-38-15 10-20-			2		
28th.	O iPE iPE iPN iE iSEN SR <sub>1</sub> E SR <sub>2</sub> E LE iLEN ME MN M2E FN	18-20-25 (18-31-35 (18-31-38 18-31-38 18-32 18-40-45 18-46-08) 18-18-50) (18-49-55 (18-56-15 19-00-43 19-04-50 19-09-58 21-55	6 10   12 15 19 15 15				7800 Kamchatka.
30th	eE LE ME FE	12-42-53 12-46 12-52-13 13-37	23 12		2 3		
31st.	eEN LE iE ME M2E LE	19-20-05 19-25-27 19-26-44 19-26-54 19-27-23 19-27-23 to 8to 19-49	6 6 10		34 20		Very sharp vibrations on both components. F. 20h 28m.
31st.	Small record oh 32m to 1h 21m.						

James Young,  
Seismologist.