

TORONTO

SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 79° 17' 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 Milne-Shaw Seismographs

International
Seismological
Centre

No. AND DATE	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE			REMARKS
				A _N μ	A _E μ	A _Z μ	
JANUARY 1927.							
1st.	LE	8-33-20					F lost in micros.
	NLE	8-35-44	10		11		Light eclipsed on NS
	N2E	8-35-54	10		12		record, by shutter.
1st.	LE	9-30-00					Striking resemblance to
	NE	9-32-44	11		11		previous quake. No NS.
	PN?	10-04-00					record.
1st.	LE	13-16-16					F, micros. Light off on
	LE	13-17-49	11		4		NS component.
2nd.	EN	10-02-30					
	LN	(10-15-00		2			
		(10-17-30					
	FN	10-46-00					
4th	LE	0-08-00					Large micros mask
	NLE	0-09-09	9		4		early phases & F.
	N2E	0-09-20	6		6		
5th	EN	23-18-00					
	LN	23-18-30					
	LN	23-19-18	12	3			Appears to be local.
	FE	23-25-00					EW record small.
7th.	LN	9-31-36					
	LN	9-32-33	10	10			Sharp vibrations 9h32
	LE	9-28-25					24sto9h32m43s. Period 8to10
							F marked micros.
7th.	LE	11-12-30	15		5		Marked micros mask
							other phases.
12th	LE	22-36-00					Barely noticeable
	LE	22-37-00	22		3		on NS. Micros at F.
14th.	EN	2-49-54					
	EN	2-50-12	12	3			
	LN	2-52-11	8	1			Minute sinusoidal waves.
	FN	?2-59-00					
16th	EN	14-22-12					
	LN	14-23-45		2			
	FN	14-27-00					Wind interferes on EW
17th	LE	22-22-00	8		2		
	LE	22-44-45			1		
	LE	22-55-17			2		
	FE	23-42-00					
19th	EN	0-07-45					
	LN	0-07-53		2			
	LN	0-13-23	15	5			
	FN	0-20-00					
19th.o	EN	1-29-06					
	LN	1-35-25	12	4			Minute & irregular
	FN	?1-54-38					vibrations after 1h29m06

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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	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 5h01m 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				
	M3E	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	10			
		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 phazzy
26th.	LN	0-08-00					
	NN	0-13-37		3			Micros & wind inter-
	NN	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 F.
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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Time: G. M. T. MIDNIGHT TO MIDNIGHT

PERIOD 12 SECONDS

MAGNIFICATION 750

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 interred 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 interfered with EW.
	LN	9-14-38		2			
	FN	9-24-00					
14th.	iN	4-03-06					Wind interferes with F,
	LN	4-17-00					and EW component.
	LN	4-24-00	15	3			
16th	eN	0-12-12					
	LF	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	8-58-38					
	LE	9-27-00			2		
	FE	10-07-00					
16th	eE	12-14-38					
	LE)	12-42-00					
	LE)	12-46-00	15	2			
	FE	13-35-00					
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	13-30					F. micros.
	LN?	13-37-00					Wind & micros interfere with FE.
23rd.	Slight record from 3h 47m to 4h 03m.						
24th	eE	4-25-50					
	eE	4-28-13					
	LE	4-34-00	15				
	ME	4-36-15	15	12			
	F	5-10-00					
25th	LE)	16-42-26	22				
	LE)	16-50-28	17		4		
	LN	16-45-38					
	FE ?	17-12-00					
26th	LE	3-07-00	15?				Heavy SW wind mask phases.
	ME	3-08-00			4		
	FE	3-29-00					
27th	LE	4-15-38					
	ME	4-20-26	11	5			
	F	4-47-00					
28th	O	14-08-21					
	ePE	14-19-26					
	eSE)	14-28-30					7690
	iSE)	14-28-33					Wind interferes with P on SE component.
	iSE	14-28-36					
	?SRE	14-34-06					
	eE	14-37-24	18				
	LE	14-44-28					
	ME	14-47-28	27	23			
	FE	17-14-00					

James Young,
Seismologist.

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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			Δ	REMARKS
				A_N μ	A_E μ	A_Z μ		
1927 March.								
1st.	eN	3-12-10						
	eN	3-17-27						
	EN	3-27-38	12		9			Quake reported SE section of Cuba.
3rd	eEN	1-28-20						
	iLE	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						
	iLE	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						
	PRIN	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
	FE	17-27						when fresh paper was put on cylinder.
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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NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
1927 March, continued.							
15th	IE LE) IE) FN	22-55-15 22-47-00 22-55 23-22			2 3		
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? LN) LN) FN	9-14-48 9-23-11 9-27-34 9-49		1 2			
21st.	eN LN IE) LE) MN FN	10-17-19 10-34-41 10-37-11 10-39-00 10-37-49 ?11-21	19	7			Wind interferes with phases of FN
21st.	LN iN LN MN	16-13-38 16-18-10 16-23-00 16-30-25		7			Papers put on at 16h 52m
22nd	eE LE ME F	1-17-54 1-29-36 1-37-45 2-52	15		6		
22nd.	IE IE F	(8-41-00 (8-51-14 9-19			3		
23rd.	IE IE FE	(10-10-36 (10-16-00 11-11			2		Wind interferes with phases.
25th	IE F	4-04-27 4-22			3		
25th	iEN LN MN	13-10-55 13-19-25 13-25-00	30 15	11			The long waves at 19m 25s are broken by reflections. FN 14h 23m.
28th	iLN LN LE	8-13-08 8-13-38 8-18-00	8 8	3	3		LE 8h.15m. FE? 8h 28m.
30th	Small quake with L at 7h34m41s and F at 8.10m.						
30th	IE LE	8-16-24 8-19-31	8		2		Small irregular waves. F 8h.39m.
30th	eN LN FN	14-33-34 14-58-00 15-19	15	2			
31st.	Small quake with L at 22h02m30s; F 22h 29m.						

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Period 12 Seconds.

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Damping 20-1

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A _N	A _E	A _Z	
		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			
	FW	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.	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.
	in	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					
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.
	MZE	8-53-10					
	MN	8-55-15	18	30			
	LE	9-00	12		36		
	F	11-58					

LE { 11h 02m 30s u
LE { 11 05 08 2

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				A N	A E	A Z	
		h. m. s.	s.	μ	μ	μ	
April, continued.							
18th.	oN	14-02-23					
	IN	14-35		2			
	PN	15-25					
19th.	oN	17-50-36					
	IN	(18-06					
	IN	(18-07-08		3			
	PN	19-14-00					
27th	oE	3-09-45					
	LE?)	3-19-12	10				
	LE?)	3-19-33	10		2		
	FE	3-40					
27th	eE	3-49-23					
	IE	3-50-23			1		
	FE	4-31					
27th	eE	14-08-20					
	IE	14-18 to	15 to				
		14-30-30	10		2		
	FE	15-11					
27th	Small	quake from 22h 13m 21s					
29th	Small	quake from 11h 38 m to 11h 51m.					Wind interferes
30th	IE	(14-47-00					
	IE	(14-51			2		
	FE	?15-28					

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Seismologist.

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				A _N	A _E	A _Z	
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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				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	7	12		
	MN	5-51-52	17				
	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		2?			
	FN	?13-45					Wind interferes with NW record.

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

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	17-34-23					
	LN	17-36-00					
	LE	17-49-15			2		
	LN	17-50		2			
	FN	18-24					
3rd.	iE?	7-31-07	4				
	iE?	7-31-25	4				
	eN	7-31-25					Reading at 7h31m07s may be caused by micros.
	iE?	7-33-56					
	eN	7-33-56					
	iN	7-34-30					Large irregular waves at intervals.
	iN	7-40-38					
	iE	7-40-42	9				
	iE	7-41-08	12				
	iN	7-43-48					US. Geodetic Survey gives 6 degrees S. 133 East.
	LN	7-52-00	15	36			
	(MN)	8-17-45	32	152			
	(MN)	8-20-16	32	180			
	ME	8-18-44	30		146		
	ME	8-29-08	17		45		
	FN	11-28					
6th	eN	18-54-10					
	eN	19-00-30					
	LE	19-22					
	LN	19-24-30					
	LN	19-27		2			
	LE	19-27-22			3		F indefinite.
9th.	Small	disturbance with L at 22h 59m 50s, rather doubtful as record gives no time marks.					
10th.	eN	17-23-23					
	LN	17-38-23	15	3			
	FN	18-20					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	17-32-25					
	eE	17-36-23					
	FE	17-43					
14th.	eE	18-32-28					
	LE	(18-34 to 18-46-30			3		
	LN	18-36-15	19	5			
	LN	18-40-30					
	LN	18-45-30		3			
	FN?	?19-36					
17th	eE	6-20-20					
	iN	6-20-23					
	LE?	6-32-20					
	LE	(6-37-35 to 6-42-45			2		
	FE	7-18					
18th.	eE	10-34-10					
	LE	10-37	2				
	FE	10-59-00					

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			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	PERIOD	AMPLITUDE			REMARKS
				A N μ	A E μ	A Z μ	
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 F.
4th.	Small	record 15h 46m 30s to 16h.					
6th	Small	quake 0h 22m to 0h 32m					
7th.	Small	quake 21h 02m to 21h 38m.					
8th.	Small	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

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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				
		12-32	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



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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

PERIOD 12 seconds

MAGNIFICATION, 150

DAMPING 20-1.

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
AUGUST 1927							
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			F 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 ₁ N	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.	M ₁ N	22-05-23		18?			
	M ₂ N	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 _N μ	A _E μ	A _Z 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.					

James Young,	Seismologist.
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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. SOIL, Sand and Clay

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

INSTRUMENTS—Two Milne-Shaw Seismographs

No. and Date	Station	Time	Period	AMPLITUDE			REMARKS
				A N	A E	A Z	
3rd.	O	19-47-35	.	μ	μ	μ	
	iPE	19-56-00	3				
	iSE	20-02-40					
	iE	20-06-06	11				
	LE	20-08-00					4960
	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 22h 30m 18s to 22h 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 from 4h 12m to 4h 16m period, 15.
	FE	4-38-00					
10th.	LN	17-49-00		1			
	LE	17-52-15			2		
	FE	18-26					
11th.	O	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)					
	LN	22-54-23)	30				
	MN	23-03-38	15	31	31		
	iN	23-06-38	12	14			
	M1E	23-03-15	15		24		
	M2E	23-03-39	12		22		
	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.

SEISMOLOGIC STATION, METEOROLOGICAL SERVICE OF CANADA

Period 12 seconds.

Magnification 150

Damping 20-1

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	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
1927. NOVEMBER. 4th.	O	13-50-55		μ	μ	μ	
	iPE	13-57-35	6				
	PRiE	13-58-36	8				3490
	iSE	?14-02-51					
	iSN	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

NOVEMBER, 1927, continued.			AMPLITUDE			REMARKS
NO. AND DATE	PHASE	TIME	PERIOD	A _N	A _E	
15th.	EN	8-40-17				
	IE	8-48-07				
	LE	8-55				
	LE	9-07	17		4	Irregular L waves.
	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	to			
		22-53			6	Sinusoidal at inter-
	MN	22-16	23	10		vals.
	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 pro-
	FN	21-37				nounced.
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	
	LE	15-34-11	6		5	Early phases inter-
	FE	16-16				fered with, changing
						paper.
21st.	LN	(19-07-19				
	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
	iN	23-37-16				42 South,
	SRIN	23-42-10				70 West.
	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

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	PERSON	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 SISIMOS

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. 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 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 ₁ E SR ₂ 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				
				763	120 79	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.