

1925

# Toronto

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6s 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

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
			h. m. s.		μ	μ	μ	h. m. s.
	January, 1925.							
	3rd.	LN LE F	9 05 00 9 10 23 Micros.					Micros and wind effecting boom.
	5th.	O ePN iPN eSM iSN iE LE FM	13 45 39 13 55 25 13 55 27 14 03 15 14 03 23 14 04 00 14 14 30 ?14 49					6260 km. Small.
	5th	eN LE LN MN F	21 55 35 21 57 08 21 57 11 21 57 36 Merged into next	11	10	7		Early phases masked by micros.
	5th	iE iN LN LE F	22 12 28 22 14 28 22 14 51 22 14 52 ?23 04	11 15	11	10		Striking resemblance to previous quake.
	6th	eN F	13 50 08 Micros.					Micros mask EW comp.
	14th.	LE F	11 14 15 to 11 29 12 01					Small sinusoidal waves, cut-off not working. N&S comp. barely noticeable.
	18th	O iPE iSN iSE iLE LN ME FE	12 06 10 12 17 53 12 27 31 12 27 34 12 43 14 12 54 36 12 56 10 15 48	4to8  10 15 23 18		114 73		8420 km. S large and well defined.
	23rd.	LE F	18 03 38 Heavy winds interfere					Small, not noticeable on NS component.
	26th	LE F	6 10 15 Micros.					Vy. small, NS component quiet.

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INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME h. m. s.	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub> μ	A <sub>E</sub> μ	A <sub>Z</sub> μ	
	January, continued.							
	26th.	iPN	19 09 15					
		SE?	19 14 25					
		eSN?	19 14 30)					
			37)	8				P on E component, poorly defined on account of strong winds. S difficult to read. 3580 km.?
		LE	?19 18 00					
		LN	19 18 35					
		LE	19 20 38	22				
		ME	19 22 12	18		69		
		MN	19 24 42	15	59			
		F	21 12					
	28th	O	4 05 41					
		PE	4 18 01					
		eSE	4 28 19					P came in at cut-off.
		eE	4 40 28					
		LE	4 46 15	39				
		LN	4 46 22					9150 km.
		LN	4 50 41	30				
		MN	4 51 52	28	40			
		ME	4 59 15	19		35		
		M2N	5 04 29	18	33			
		F	8 07					
	28th.	O	10 58 20					
		ePN	11 05 29					3880 km.
		eE	11 06 53					Rapid vibs. of boom from 12 47 32 to 12 48 37, local perhaps. More marked on NS component.
		eSE	11 11 05	11				Striking resemblance to quake at 19h 09m of the 26th.
		eSN	11 11 09					
		eE	11 14 00	10				
		LE	11 16 45					
		LN	11 17 26					
		LN	11 20 22	17				
		ME	11 18 18	18		37		
		MN	11 21 02	17	37			
		FN	12 41					
	28th.	LN	18 52 38					
		LE	18 53 30					
		LE	19 00 22	15				Small.
		LN	19 06 52					
		F	19 18					
	29th.	LN	0 42 34					
		LE	0 45 20					
		LN	?1 00 21					Small.
		F	?1 01					

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FROM..... To.....

NO.	DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD	Amplitude			DISTANCE <small>h. m. s.</small>
					$\Lambda_N$ $\mu$	$\Lambda_{E}$ $\mu$	$\Lambda_Z$ $\mu$	
	January, continued.							
	30th.	eN	17 52 21					
		LE	?17 58 40					
		LN	18 02 10					
		LE	18 08 10	18				
		ME	18 08 36	18		33		Heavy micros
		MN	18 10 12	15	14			mask early phases.
		F	Micros.					
	31st.	eN	?17 37 44					
		LN	17 46 58					
		L	17 56 15					
		F	Micros.					Heavy micros mask record. EW component interfered with by wind and micros.

James Young,  
Seismologist.

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FROM..... To.....

NO.	DATE 1925.	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub>	A <sub>IE</sub>	A <sub>Z</sub>	
	FEBRUARY.							
	1st.	P	Masked by micros.					
		eS	5 46 23					
	W	iS	5 46 40					
		L	6 04 30					Wind effecting boom.
		M	6 10 05	22		15		
		M2	6 19 30	18		13		
		F	Masked micros.					
		P	Masked by micros.					
		eS	5 46 43					
	H	?L	6 02 23					
		L	6 04 00					
		M	6 21 to	19	16			
			6 23					
		F	Masked micros.					
	1st.	e	21 23 38					
		L	21 25					
	W	M	21 25 33	17		7		Marked micros going on.
		F	Micros.					
		i	21 23 27					
	H	L	21 25 10					
		F	Micros.					
	1st.	L	22 25 45					Micros masked phases.
	W	F	Micros.					
		N-S component, impossible to interpret on account of micros.						
	2nd.	L	12 10 30					slow waves, small amp.
		L	12 22 15					
	W	L	12 24 15	15				
		F	Micros.					
		L	12 27 45					
		Very small waves to						
			12 42					
	N	F	12 46					
	2nd.	e	13 42 32	8				E looks doubtful.
		iS	13 51 50					
	W	eL	14 08 52					
		Sinusoidal from						
			14 14 52	17 to				
			to 14 28	22		18		
		F	16 42					

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INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\mu_N$	$\mu_E$	$\mu_Z$	
	February, continued.							
	2nd.	i	13 42 31					
		e	13 51 15					
	H	S	not shown.					Several maximum, marked uniform waves from 14h 15m to 14h 34m.
		e	13 57 32					
		L	14 00 15					
		M	14 15 55	23	26			
		F	16 38					
	2nd.	oP	19 59 17					
		i	19 59 38					Heavy winds make P doubtful.
		iS	20 09 30	6				
		eL	20 26 38	30				
	W	M1	20 33 00	19				9050 km.
		M2	20 33 19	19		28		
		M3	20 33 38	19				Marked quake.
		L	22 48 45	22				
			Sinusoidal to					
			23 08					
		F	24 01					
		oP	19 59 15)					
		i	19 59 30)					
		eS	20 09 28)					P, letter shown on this component.
		iS	20 09 30)					
	H	e	20 26 30					9050 km.
		L	20 31 41					
		M1	20 45 52	15	18			
		M2	20 46 05					
		L	22 58 30					
		F	24 06					
	3rd.	L	19 28 03					Faint sinusoidal waves.
	W	F	20 08					
		H-S component, not measurable.						
	4th	L	0 06 27					Faint waves.
	W	F	0 30					
		L	0 14 15					Very small.
	H	L	0 17 03					
		F	0 32					

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NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
	February, continued.							
	6th	L	18 03 38					Faint traces.
	W	F	18 33					
		L	18 12 15					Faint sinusoidal waves.
	N	F	18 26 00					
	7th.	L	12 57					Very small.
	W	F	13 12					
		L	12 57 38					Small.
	N	F	13 20					
	7th	L	19 18 22					Small.
	W	F	19 36					
		L	19 21 30					Very small.
	N	F	19 47					
	9th.	e	6 06					Minute, but quick waves
	W	F	Micros.					
		e	? 6 05 50					
	N	L	6 12 38	15				Small sinusoidal waves
		F	6 29					
	9th.	eP	? 14 30 10)					Micros render P doubtful.
	W	S	14 30 35)					
		eL	14 39 50					
			14 54					
	Light off the paper at 15h 04m, large pillar change.							
	H-S component, unable to get record owing to very large change of pillar. spot went off at 9h 10m.							
	10th	e	? 3 33 35					
		e	3 34 52					
	W	L	3 51 23					Very small.
		F	? 4 12					
		L	3 45 15					
	N	L	3 48 30					Small irregular waves
		F	? 4 24					

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FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\overset{\wedge}{N}$	$\overset{\wedge}{E}$	$\overset{\wedge}{Z}$	
					$\mu$	$\mu$	$\mu$	
	February, continued.							
	10th.	L	11 46					Early phases masked by micros. Small.
	W	F	11 56					
		N-S component, nothing.						
	10th	L	13 20 48					Small.
	W	F	13 46					
		N-S component, too small to measure.						
	10th.	L	22 48 15					Faint traces.
	W	F	23 08					
		L	22 58 15					Very small.
	N	F	23 08					
	12th	L?	?3 40					Small.
	W	L	?3 57 30					
		F	Wind effect.					
		N-S component, too small to measure.						
	12th	L	10 03					Small.
	N	L	10 04 45					
		F	10 28					
		E-W component, shows effect of wind.						
	13th	L	10 02 10					Small.
	W	F	10 14 00					
		e	9 58 21					Small.
		L	10 02 21					
	N	Sinusoidal L from						
		L	10 03 10 to					
			10 05 30					
		F	10 16					
	13th.	P	Masked by micros.					Prolonged small sinusoidal waves from
		eS	14 18 38					
	W	L	?14 24 52					
		L	14 45					
		14 47 08						
		M	14 49 08	22		10		
		F	Wind and micros.					

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NO.	DATE	PHASE	TIME h. m. s.	PERIOD	Amplitude			DISTANCE h. m. s.
					$\Lambda_N$ $\mu$	$\Lambda_E$ $\mu$	$\Lambda_Z$ $\mu$	
	February, continued.							
	13th	e	14 10 08					Slight movements before
		i	14 16 52					e, but unmeasureable.
	N	S	Not discernable.					
		L	14 24 47					
		L	14 44 52	22				Small sinusoidal waves.
		F	16 22					
	16th.	O	17 47 44					
		eP	17 59 20					
		eS	18 08 54					
	W	eL?	18 15 30	30				
		L	18 20 00	15				
		L	18 35 10	30				
		M	18 39 30	21		10		8290 km.
		F	20 26					
		O	17 47 50					
		1P	17 59 19					
		eS	18 08 56					
	N	i	18 15 23					
		L	18 20	15				
		M	18 39 15	25	29			8340 km.
		F	20 26					
	20th	O	1 02 36					
		eP	1 14 37					P not well defined
		iS	1 24 37					
	W	e	1 36 05					
		L	1 38 53					8780 km.
		M	1 42 13	32		34		
		F	4 00					
		1P	1 14 37					
		eS	1 24 37					
		1SRI	1 30 25					
	N	eL	1 38 53					
		M	1 49 24	23	14			8780 km.
		F	4 00					
	20th	L	8 49 20					
	N	F	9 04					Very small.
		E-W component, not measureable.						



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FROM..... To.....

NO.	DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD	Amplitude			DISTANCE <small>h. m. s.</small>
					$\Lambda_N$ <small><math>\mu</math></small>	$\Lambda_{E}$ <small><math>\mu</math></small>	$\Lambda_Z$ <small><math>\mu</math></small>	
February, continued.								
	21st.	e?	19 51 38					
		L	19 58 37					
		Small sinusoidal waves from						
	W	L	20 00 to					
			20 05 23	20				
		F	21 06					
		e	19 47 15					
	N	L	20 02 25				Very small.	
		F	20 42					
	23rd.	O	23 53 32					
		eP	0 01 41					
		iP	0 01 44					4720 km.
		iS	0 08 08					Possibly Alaska.
		iSR1	0 11 00	8				
	W	L	0 13 24	10				
		L	0 14 06	12				
		M	0 19 43	13		262		
		F	Light out.					
		O	23 53 39					
		iP	0 01 45					
		iS	0 08 09	10				
		iSR1	0 11 01	11				
		L	0 13 20					
	N	L	0 14 10	11				
		M1	0 16 58	8	149			4670 km.
		M2	0 19 45	15	233			
		F	Light out.					
	25th	e?	22 31 30					
		e	22 32 45					
	W	L	23 02					Very small.
		F	?23 36					
		L	23 00 23					Slow irregular waves, small amplitude
	N	F	23 16					

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INSTRUMENTS—Two Milne-Shaw Seismographs. Dampin 20-1

FROM..... To.....

NO.	DATE	PHASE	TIME h. m. s.	PERIOD	Amplitude			DISTANCE km.
					$\mu$	$\frac{\Delta}{E}$	$\frac{\Delta}{Z}$	
	1925.							
	March.							
	1st.	O	2 19 25					Quebec quake.
		iP	2 21 07					760 km. Very
		iS	2 22 30					large. Record failed before
		iE	2 22 34					M. vibs. to rapid to record.
		iN	2 22 45					P well defined and large
		iLN?	2 22 48					ampl. S on both components
		FN	5 42					came in as a violent vib-
								ration. Epicentre vicinity
								of St. Paul's Bay.
	1st.	iE	4 32 10					After shocks, small.
		iLN	4 32 14					
		F	4 33 30					
	1st.	iLN	6 27					Small, EW lines mixed up.
		F	6 28					
	1st.	PN	7 26 15					320? km. EW recorded
		S or iLN	7 26 50		7?	X		but lines entangled.
		F	7 27 45					
	1st.	LN	13 22 30					Very small, EW component,
								barely noticeable.
	3rd.	LN	3 10 52					Small, EW interfered by
		F	3 26					wind.
	5th.	LN	1 54					Time uncertain, cut-off not
		F	Micros.					working. EW component inter-
								fered with by wind.
	7th.	LN	2 31 47					Very small, not noticeable
		F	2 33					on EW component.
	7th.	LN	3 38 30					Slow waves, small amplitude.
		F	4 00					Barely noticeable on EW.
	7th.	LN	18 50 22					
		LE	19 10 38					
		LN	19 13 41	22				Sinusoidal to 19h 21m .Small.
		F	20 18					

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NO.	DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD	Amplitude			DISTANCE
					$\mu$	$\frac{\Delta}{E}$	$\frac{\Delta}{Z}$	
	March, continued.							
	8th.	eN LN F	1 44 38 1 55 23 2 28					Small, heavy winds mask phases on EW component.
	9th.	?eE LE LN FN	18 58 45 19 04 19 19 04 22 19 24					Small.
	9th.	LE F	23 59 30 Heavy wind.					Barely noticeable on NS component.
	14th.	LN LN F	2 43 39 2 49 09 Winds interfere	19				Winds interfere with EW phases.
	14th	LN F	10 17 07 10 30					Small, EW component, interfered with by winds
	15th.	LE F	6 33 30 6 46	10				Sinusoidal to 6h 35m 30s. Small. Barely noticeable on NS.
	15th.	LN F	17 36 15 ?18 00					Small, Wind effecting EW boom.
	16th.	eN iN FN	9 40 18 10 28 10 ?11 08					(Sharp little movement) EW boom effected by winds.
	16th	LN LE LN LE ME MN FE	15 21 15 30 45 15 44 38 15 38 to 15 50 15 47 26 15 52 05 ?17 46	22 30 to 19 19 15				P & S lost, changing paper at 15h 02m to 15h 15m.
	16th	e eE ?eSN ?eLe eLN LE LN FE	23 46 11 23 48 03 23 54 08 0 02 15 0 38 39 0 52 53 0 58 08 1 26				24	33 Slight sinusoidal. Very small. S not shown on EW component.

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NO.	DATE	PHASE	TIME	PERIOD	Amplitude		DISTANCE
					<sup>A</sup> <sub>E</sub>	<sup>A</sup> <sub>Z</sub>	
	March, continued.						
	17th.	LN F	15 02 15 Paper off.		"		Slow irregular waves. Not noticeable on EW
	17th.	eE F	17 02 30 ?17 09				NS component, quiet.
	18th.	eN LN F	14 39 14 41 45 ?16 04				Very small. Barely noticeable on EW.
	19th	LN F	?16 50 37 Winds mask phase.				EW interfered with by winds.
	20th	LE eLN FN	13 18 15 13 19 15 13 58				More noticeable on NS component.
	21st.	LN LE F	9 41 08 9 41 27 9 50				Very small.
	21st.	eE eN LN FN	11 37 23 11 37 45 11 38 23 11 58				More marked on NS.
	21st.	P 1SE 1E M M2E LN F	15 22 45 15 23 44 15 24 13 15 23 50 15 24 15 15 24 30 to 15 24 48 15 26 45	4	7	4 5	P on both components not well defined. Felt in Quebec province, particularly in Quebec City. 540 km. (Small sinusoidal)
	22nd.	ePE <del>1SE</del> 1SE 1E L 1LN MN ME M2N F	79 00 15) 79 01 15) 9 11 56 9 18 9 26 9 34 45 9 35 04 9 43 15 9 43 45 Merged into next quake.	30 22 26	94 24-to-19 20	106 40	P not recorded on NS component, uniform and continuous vibrations.

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NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\mu$	$\frac{\Delta}{E}$	$\frac{\Delta}{Z}$	
	March continued.		h m s		$\mu$	$\mu$	$\mu$	
	22nd.	eE	12 01 08					
		?eN	12 08					
		LE	12 13 38					Small. F not known.
		LE	14 15 23					
	22nd.	LE	15 02 38					
		eN	15 06 15					Small.
		LN	15 12 38					
		F	16 28					
	23rd.	LN	12 55 24					
		LN	13 08					EW only slightly effected.
		F	13 10					
	24th.	?PE	13 01 20					
		S	13 07 57					
		LE	13 10 18	13				P may be earlier.
		LN	?13 49 15					Small.
		F	13 52					
	26th.	LN	11 46					Irregular, small waves.
		F	12 02					EW component, barely noticeable.
	27th.	eN	5 25 30					
		eE	5 27					
		LN	5 32 22					
		LE	5 33 30	Small sinusoidal.				
		LN	5 34 to	15				More marked on NS.
		FN	6 02					
	27th.	Between 11 16 30 and 11 17 58, small irregular waves, more noticeable on EW component.						
	27th.	LN	21 38 38	15				Small. Wind interfered with EW record.
		F	21 54					
	28th.	LN	12 17 30					Small irregular waves.
		F	12 24					Barely shown on EW.
	29th.	O	21 12 34					
		iPN	21 19 34	Irregular.				
		iPRLN	21 20 45					
		iSE	21 25 08					
		iE	21 27 45	8,	marked sinusoidal.			
		LE	21 29 00					
		iLE	21 30 10					
		iLN	21 29 00					L difficult to place. 3760 km.
		LN	21 30 37					
		ME	21 32 34	20		35		P on EW component,
		M2E	21 35 56	15		33		masked by micros.
		MN	21 36 30	15	33			
		M2N	21 37 56	15	36			
		F	23 53					

James Young, Seismologist.

# Toronto

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6s 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**

From..... To.....

NO.	DATE	PHASE	TIME h. m. s.	PERIOD	Amplitude			DISTANCE h. m. s.
					$\Delta_N$ μ	$\Delta_E$ μ	$\Delta_Z$ μ	
	1925. April. 1st.	LN ME F	18 18 45 18 23 32 Wind.	15 15	-	6		Very small, uniform waves.
	3rd.	LN F	22 01 15 to 22 02 52 22 16	10				Small sinusoidal. EW component, barely noticeable
	5th.	LE F	3 38 52 4 02					Very small. EW winds mask phases
	5th	LE eN LN F	21 52 30 to 21 59 44 21 53 23 21 58 30 22 06	22		5		Sinusoidal. Very small, micros mask early phases
	7th.	YFN FSN FSB LE LN MN F	18 26 08 18 36 15 18 36 37 18 54 19 12 19 20 22 20 38	20 20	6			Some phases masked by high winds and micros.
	11th.	O 1PE PRE eNE? LE LN? ME ME FN	10 49 39 11 01 45 11 05 30 11 11 48 11 29 44 11 32 15 12 03 15 12 11 38 15 06	18 15	54	36		Well defined vibrations.
	16th	ePE eE eSN? LN LE ME MN FN	20 12 10 20 21 42 20 22 26 20 46 20 28 37 20 51 08 20 58 30 23 04	26 20	29	44		3 difficult to place. 1E 20h 23m 39s.

# Toronto

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					<sup>A</sup> <sub>N</sub>	<sup>A</sup> <sub>E</sub>	<sup>A</sup> <sub>Z</sub>	
					μ	μ	μ	b. m. s.
	April, continued.							
	19th	eN LN F	16 09 32 16 22 45 Changing paper					Small. Winds mask phases on SW.
	22nd	eE LN LE LN LE F	23 33 17 23 42 30 0 19 15 0 19 45 0 26 1 16	22	3	4		Very small.
	25th	eE eE LN LN F	13 43 08 13 48 22 13 54 52 14 30 27 14 49					Very small.
	26th.	L LN LE  LN LN F	9 07 15 9 57 25 9 42 to 10 13 9 44 10 to 9 48 10 10 11 49	15 15	3 4	4		Sinusoidal. do.
	27th	?PE ?SE LN F	4 08 36 4 09 18 4 09 25 4 10 15					380? km. More marked on SW component. Reported from Central states
	27th	eE LE F	19 17 08 19 38 53 Wind.					Very small.
	28th.	eE LE F	2 03 08 2 13 08 2 28					Very small. Barely notice- able on NS.
	29th.	LN LE LE F	22 45 13 22 45 22 22 45 40 23 22	15	6	6		
	30th	LN LE F	11 53 10 12 10 30 Winds interfere.	15	2	3		

James Young, Seismologist.

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LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6s 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

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE h m. s.
					$\overset{\Delta}{N}$ μ	$\overset{\Delta}{E}$ μ	$\overset{\Delta}{Z}$ μ	
	1925. May.							
	3rd.	eE eN LE LN ME F	17 41 33 17 43 15 18 00 45 18 27 52 18 28 25 21 00	28	80	40		Sinusoidal L waves prominent.
	3rd.	i eE eE LN LE ME F	23 18 43 23 22 10 23 30 45 0 09 00 0 10 9 23 11 2 58	23 30 19	30	37		May be a dual eq.
	4th	eE LN LE LN LE F	12 01 25 12 20 12 26 12 30 12 42 36 12 54	15 15				Very small.
	5th	eP eN SE PLE LN LE MN FR	10 26 39 10 34 53 10 36 48 10 58 30 11 00 10 11 05 25 11 13 08 14 03	18 30? 23 to 30	40	28		P poorly defined. slight marking at 10h 25m 17s. 8980 km. ?
	5th	e LN eE PLN LE ME MN F	23 42 36 23 45 51 23 52 38 0 00 23 0 20 30 0 35 35 0 41 39 2 16	10 25 23 26	10	11		Uniform L waves on NS. no defined Max.
	6th	eE LE F	9 10 9 12 to 9 25 30 9 56			2		Sinusoidal. Barely noticeable on NS component.



# Toronto

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Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE h m s.
					$\Lambda_N$ μ	$\Lambda_{IE}$ μ	$\Lambda_Z$ μ	
	1925. May, continued.							
	7th	eN LN F	15 00 10 15 22 22 17 18					Very small. EW interfered by winds.
	7th.	LN F	18 18 23 19 02					Very small, EW wind interferes.
	7th.	LN	20 14 34					Wind interfered with F, also with EW comp.
	11th.	LN LN F	12 01 10 12 04 23 13 50					Very small. EW winds interfere
	12th	eE LE LN FN	19 50 23 19 52 47 19 58 20 58	10	2			High winds render times doubtful.
	13th	Small disturbance on both components from 8h 44m to 8h 55m, cut-off not working.						
	13th	eLE LN F	12 03 00 12 02 50 12 04	4 to 8				Readings doubtful. cut-off unreliable Sharp little vibs.
	14th	eE LE LN LE LN F	0 37 08 0 49 1 06 22 1 08 1 14 08 2 26	22	2			Small.
	15th.	0 1PE 1SE LN? LN LE MN F	11 57 08 12 08 08 12 17 08 12 30 22 12 33 52 12 38 53 12 37 26 13 52	23 23 23	8	8		7600 km. P more pronounced on NS component.
	16th	eE LE F	3 46 08 3 47 23 Micros.					Very small. Nothing on NS

# Toronto

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Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

From..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE b. m. s.
					A <sub>N</sub> μ	A <sub>E</sub> μ	A <sub>Z</sub> μ	
	1925.							
	May, continued.							
	16th	LE F	11 35 30 12 10					Very small, NS component barely noticeable.
	19th	ePE iE eLE ese LN LE MLN MEN ME F	5 43 24 5 46 47 5 49 11 5 56 52 6 20 15 6 20 30 6 44 38 6 46 26 6 49 38 6 58					eLE phase, very irregular. S difficult to place.
				15				
				23	11			
				18	11			
				17		19		
	20th	YLE LN LE LN	11 50 37 11 57 15 12 04 55 12 10 15					Micros mask early phases and F.
				15		2		
				15	3			
	20th.	LN LN F	23 56 26 0 04 08 Micros.					Micros going on, interfere with EW component.
				15	2			
	21st.	LE F	5 40 18 Micros.					Very small, NS not noticeable.
	21st.	LN F	11 49 08 11 52					Very small. Nothing on EW.
	22nd	PE SE LE? LN LE LN ME F	10 04 20 10 11 32 10 19 15 10 19 28 10 28 23 10 34 23 10 38 43 11 51					P & S poorly defined. 5550 km. S not shown on NS component.
				23		2		
				12	2			
				15		4		
	23rd.	eE eN eE LN LE ME MN F	2 34 28 2 33 45 2 40 52 2 58 13 3 03 42 3 05 11 3 09 23 4 30					Possibly Japan. Micros active.
				15		9		
				15				
				18	8			

# Toronto

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Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

From..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\Delta_N$	$\Delta_E$	$\Delta_Z$	
			h m s		$\mu$	$\mu$	$\mu$	h m s
	1925. May, continued.							
	23rd.	?1E LN	21 26 32 21 29 43	15	3			Small irregular waves, mixed with micros. F. Micros.
	25th.	eE LN LE LN LE F	4 13 35 4 42 43 4 45 15 4 57 38 5 03 45 5 00 28 7 5 38	15 to 23 17?	6	3		Sinusoidal waves at 4h 57m 38s. More marked record on NS component.
LN.	4h. 53m. 15s.	← LN						
	25th	LE LN F	17 21 15 17 21 30 17 34					Very small.
	26th.	SN LE LN ME	8 31 13 8 32 33 8 32 53 8 34 08	10	6	8		P obscured by heavy micros, also F.
	26th.	LN LN	16 40 38 16 46 to 16 50	23	4			Sinusoidal. Micros at F. Winds interfere with EW.
	27th	eE LN LE F	2 52 38 2 55 16 2 56 00 7 3 53	10?	3	2		Micros mask phases.
	27th.	LE LE LN ME MN F	21 30 52 21 34 34 21 37 11 21 36 38 21 47 45 22 15	15	4	4		Micros going on.
	28th	O ePE iPE iE eE ?eSE LE LN LE LN LE F	6 02 27 6 14 50 6 14 52 6 18 12 6 24 47 6 25 10 6 41 45 7 10 10 7 15 7 26 7 31 30 8 36	2 to 5 15 23 23 15	4 6 6 5			9200 km. S difficult to place. Perhaps the record of two quakes.  Sinusoidal.  Sinusoidal.

# Toronto

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Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... TO.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\overset{\wedge}{N}$	$\overset{\wedge}{E}$	$\overset{\wedge}{Z}$	
			h. m. s.		$\mu$	$\mu$	$\mu$	h. m. s.
	1925. May, continued.							
	28th	eN LN MN LE F	17 25 48 17 26 08 17 26 37 17 28 08 17 44	18 10	6	2		
	29th.	LN LE LN? F	17 44 23 17 45 23 18 06 10 18 20				Very faint marking at 17h 40m 30s.	
	30th	LE F	15 01 15 26				Slow waves of very small amplitude. NS component quiet.	

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

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\Delta_N$	$\Delta_E$	$\Delta_Z$	
			h m s		$\mu$	$\mu$	$\mu$	km.
	1925. June. 2nd.	e L F	1 56 43 1 58 15 2 10		-	-		Very small.
	2nd.	eE LE L F	5 41 45 6 06 37 6 12 22 6 34	17	1	2		
	3rd.	e e i LE M1 M2 F	4 53 40 4 55 22 4 56 39 5 13 15 5 40 34 5 45 00 Micros.	10 137 15		29 6		e may be earlier. May be a dual eq. Prolonged sinusoidal waves. NS coupler thrown off, no record.
	4th.	eP S L M F	1 21 20 ? 1 23 19 1 31 38 1 35 10 2 31	6 13		5		Minute micros 1h 16m to 1h 19m. <sup>30s</sup> P and S faintly marked. 3180 km. NS component, not recording.
	4th.	P? e eS L M F	12 09 29 12 11 05 12 15 30 12 21 50 12 24 40 Micros.	15		10		P interfered with by small micros. NS component, not recording.
	6th	LE LN FN	21 20 30 21 24 30 21 44					Very small; phases masked by strong winds.
	7th	O 1PE eE 1SN 1SE 1E 1E LN LE LN MN FN	23 41 29 23 49 07 23 49 30 23 55 09 23 55 06 23 55 58 23 58 08 0 00 08 0 01 08 0 01 45 0 08 17 1 34	15 8 to 10 23 15		12		True P on EW component not recorded. 4270 km. Violent quake reported from <del>Spain</del> vicinity of Bogota, Colombia.

# Toronto

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Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\Delta_N$	$\Delta_E$	$\Delta_Z$	
			h m s		$\mu$	$\mu$	$\mu$	h m s
	1925. June, continued.							
	9th.	O	13 47 46					
		ePE	14 01 39					11,080 km.
		ePH	14 01 41					
		eH	14 02 38	13				3 difficult to read.
		eE	14 08 59					May be a dual earthquake.
		?SE	14 13 23					
		eSH	14 13 26					
		eH	14 16 52					Papers changed at 14h 30m, and NS not put on.
		eH	14 18 40	17				
		LE	14 38 18	19				
		ME	14 58 08	17		27		
		FE	718 12					
	10th	LN	9 17					
		LE	9 18 30	10				Small,
		LN	9 18 15 to					
			9 19 23	11	3			Sinusoidal.
		FN	9 30					
	11th	L	16 28 10					
		L	16 44 15					An earlier movement not defined.
		L	17 03 38	22				
		M	17 06 to	22		5		NS component, not recording.
			17 12					
		F	18 17					
	12th	e	11 19 55					
		L	12 08 to	22		5		Marked sinusoidal waves.
			12 13					
		F	13 28					NS component, not recording.
	12th	e	23 02 08					
		L	23 03 10					Small,
		F	23 52					NS component, not recording.
	13th	eE	20 27					
		LN	20 48 45					
		LE	21 02 55					
		FE	22 16					Small.
	14th	eH	6 52 13					
		LE	6 56 19					
		FE	7 06					Barely noticeable.

# Toronto

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Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Sismographs.

From..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
			h. m. s.		μ	μ	μ	
1925. June, continued.								
	14th	LN	20 24 10					
		LN	20 39 38	22	3			Wind interferes with EW component.
		F?	21 46					
	14th	PH	22 33 52					
		eSE	22 38 18					2610 km.
		1LE	22 41 42					A slow gradual movement at 38m 15s.
		eSN	22 38 15					Well defined vibrations at Max.
		1SN	22 38 21	11				
		1LE	22 42 30	11	19	57		
		MN	22 44 25					
		F	0 16					
	18th	1N	21 48 51					
		LN	21 49 08	12	3			EW component, interfered with by winds.
		F	22 14					
	19th	0	8 04 51					
		ePE	8 15 15					6930 km.
		eSR	8 23 40					P & S not visible on NS component.
		eN	8 16 23					
		LN	8 37 30					
		LE	8 41 38 to					
			8 51 45	22		10		Slow sinusoidal <i>L waves</i>
		MN	8 46 50	23	8			
		LE	8 54 23	15				
		F	10 19					
	19th	eE	16 44 52					
		eSE	16 49 08					
		eLE	16 53 15	22				
		LE	16 54 to	23		9		Sinusoidal <i>L waves</i>
			17 02					
		LN	16 54 10	15	3			Small micros on NS component.
		PH	17 36					
	20th	e	13 27 30					Paper changed at P.
		LE	13 48 30					
		MN	13 56 30	15	3	4		
	22nd	eE	18 26 15					
		LN?	18 32 08	12	2			
		LE	18 38 11					
		LN	18 41 15					Very small.
			18 43 to		3			
			18 45					
		PH	19 00					slightly sinusoidal.

# Toronto

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Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... TO.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\overset{\Delta}{N}$ μ	$\overset{\Delta}{E}$ μ	$\overset{\Delta}{Z}$ μ	
	1925. June, continued.							
	23rd.	eE P	5 06 38 5 32					L phases weak. NS component, quiet.
	23rd.	PNT eSE iE LN LE  LN FE	16 54 50 17 01 10 17 02 27 17 05 15 17 06 30 17 08 to 17 10 17 09 15 18 08	15 22	4	3		P very feeble. ?4600 km.  sinusoidal
	23rd.	LE P	20 32 20 42					Very small. NS component, quiet.
	24th.	LN FE	6 33 to 6 44 7 20	15	2	2		Small waves.
	28th.	O 1PE  1SE 1E 1N 1LE MN MN ME ME P	1 21 00 1 26 13 1 26 15 1 30 23 1 30 28 1 30 40 1 32 47 1 34 52 1 35 00 1 35 15 1 35 30 Merged into next quake.	8  12 10 10 10 8 8	82  +480 -520	-86 East +154 W South North +462 West -692 East.	2560 km. Montana quake.  Very quick period in some L waves. Period at M difficult to determine.	
	28th.	1E LN 1LE MN MN	2 17 32 2 17 23 2 19 2 17 49 2 19 30	4  3 8	87 65	115		L superimposed on vibrations of previous quake. P merged into next quake.



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NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub> μ	A <sub>E</sub> μ	A <sub>Z</sub> μ	
	1925.							
	June, continued.							
	28th.	eE	3 50 10					
		iE	3 50 17					
		iN	3 51 08					
		LE	3 52 10	12			Marked sinusoidal L waves.	
		MN	3 51 49	9	6			
		ME	3 53 30	6		7		
		F	5 30					
	28th.	eE	6 39 45					
		LE	7 00 23					
		iN	7 11 30	30				
		iN	7 18 to					
			7 28 30	23	10		Sinusoidal. More noticeable on NS component.	
		ME	7 22 12	15		4		
		FE	8 20					
	28th.	LE	14 52 15				Very small, more pronounced on NS component.	
		iN	14 55 15	23	2			
		FE	15 16					
	28th.	O	22 31 33				Winds render P doubtful.  2690 km.	
		ePE	22 37 00					
		eE	22 37 17					
		iSE	22 41 20					
		LE	22 43 50					
		iN	22 44 20					
		ME	22 46	8	3	3		
		FE	22 26					
	29th.	O	14 42 10				3550 km. Santa Barbara earthquake.	
		iPE	14 48 54					
		eSE	14 54 14					
		iSE	14 54 16					
		iN	14 56 38					
		eLE	14 57 21					
		OLE	14 57 39					
		iLE	15 00					
		MN	15 00 11	15	173			
		M1E	15 02 47	10		104		
		M2E	15 04 13	5		69		
		FE	18 57					

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FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\Lambda_N$	$\Lambda_E$	$\Lambda_Z$	
			h m s		μ	μ	μ	h m s
1925								
June, continued.								
	29th.	eH	19 08 23					
		eE	19 13 35					
		LN	19 12 52					
		LE	19 16 11					
		MN	19 14	10	4			
		ME	19 16 19	8		3		
		FE	19 55					
	30th.	eE	3 06 15					Very small.
		F	3 10					NS too small to measure.
	30th.	LE	4 36					
		LN	4 40 15	15				
		LE	4 52	15		2		Prolonged slow waves.
		FE	5 18					Very small.
	30th	e	76 42 38					
		L	6 46 53	6				NS. component, too small to measure.
		F	6 54 00					
	30th	eE	9 36 08					
		LN	9 36 37	12	3			
		LE	9 39	10				
		ME	9 39 18	12		4		
		FN	9 54					

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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.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					<sup>A</sup> <sub>N</sub>	<sup>A</sup> <sub>IE</sub>	<sup>A</sup> <sub>Z</sub>	
	1925. JULY.		h. m. s.		<sup>μ</sup>	<sup>μ</sup>	<sup>μ</sup>	
	3rd.	LN eE LE FE	16 55 21 16 56 53 16 58 00 17 07 00	12	2			Small.
	3rd.	eE LN HE ME FE	18 38 15 18 38 32 18 41 18 41 17 19 12	112 6	2		3	
	4th	eE LE LN ME FE	9 36 22 9 41 38 10 08 08 10 14 30 12 12 00	30 23	21	17		Marked sinusoidal wave
	5th	eE eE LN F	2 37 2 45 16 2 38 2 48					Small.
	5th.	EE eE L FE	4 20 44 4 21 22 4 22 14 4 31					
	5th	eE eE LE LN FE	7 11 23 7 15 59 7 21 26 7 22 to ) 7 24 ) 8 06 59	22	4	2		Sinusoidal.
	6th.	LE eE LE FE	7 26 37 7 32 20 7 33 12 7 44 57					Small. Only slight trace on NE component.
	6th.	L LN LE ME LE FE	11 22 50 11 25 27 11 26 50 11 30 37 11 36 57 12 13 57		2	2		Sinusoidal.

SEISMOGRAPHIC STATION

DEC 15 1925

BERKELEY, CALIFORNIA

# Toronto

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

From..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub>	A <sub>EE</sub>	A <sub>Z</sub>	
			h. m. s.		μ	μ	μ	s
	1925. July, continued.							
	6th.	eE	12 27 33					
		eN	12 36 29					
		LN	12 37 07	15	3			
		LE	12 46 40	12				Small.
		FN	13 30					
	6th	i	21 34 39					
		iE	21 35 14	5		2		Minute & very rapid
		LE?	21 35 41	4				vibrs. Press states
		FN	21 36 00					felt in Saguenay dis.
	7th	eE	8 33 48					
		LE	9 35 15					
		ME	9 43 23	17		3		
		F	10 50					
	7th	O	14 12 06					
		ePE	14 19 02					
		iSE	14 24 32	8				
		LE	14 27 18	12				
		MN	14 33 11	10	70			3710 km.
		ME	14 33 20	8		36		
		F	Merged into next quake.					
	7th.	LN	15 19 08					
		MLE	15 24 45	15		12		
		MN	15 26	15	15	16		
		FN	17 48 22					
	7th	O	17 43 38					
		iPE	17 49 50					
		eSE	17 54 45					
		eE	17 55 02					S difficult to
		LE	17 57 21					place.
		MLN	17 58 57	18	18			
		MLE	18 00 40	20		23		3170 km.
		M2E	18 05 44	12-15	15	20		
		FN	20 48					
	8th.	eE	11 28 37					
		LE	11 40 15					
		ME	11 48 26	23	3	3		
		F	12 46					
	8th.	eE	14 50 30					
		LE	14 52 45					
		ME	15 04 18	15	3	3		
		FN	16 00					

SEISMOGRAPHIC STATION

DEC 15 1925

BERKELEY, CALIFORNIA

# Toronto

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\overset{\wedge}{A}_N$	$\overset{\wedge}{A}_{IE}$	$\overset{\wedge}{A}_Z$	
			h. m. s.		$\mu$	$\mu$	$\mu$	
	July, continued.							
	8th.	LE	18 52 38					
		ME	18 58 15	15	2	2		Sinusoidal.
		FE	19 48					
	10th.	eE	14 53 58					
		L	14 55 28	12	2	2		Times doubtful, no cut-off.
		F	15 00					
	11th	LE	2 09 10					
		MN	2 13 28	15	3	2		
		FE	3 16					
	17th	eE	3 39 10					
		eN	3 42 58					
		LE	3 52 58					
		MN	4 12 58	23	5	2		Marked sinusoidal waves.
		FN	5 24					
	17th	eN	21 27 12					
		LN	22 00 57)					
			22 14 20)	23				
		LN	22 19 to	15 to				
			22 29	23	7	3		Sinusoidal.
		FN	22 56					
	17th.	eN	23 00 57)					
			23 01 57)	15	2			Winds interfere with EW component.
		LN	23 30 55	23				Sinusoidal before and after Max.
		MN	23 39 12	15	3			
		FN	0 50					
	27th	eE	12 24 08					
		LE	12 24 27					
		L	12 25 15	10	1	2		More marked on EW component.
		F	12 35					
	29th.	LN	5 59 25					
		LE	6 01 37					
		LE	6 13 09	15		2		May be a dual eq.
		LN	6 23 07	15	4			
		FE	6 54					
	30th	eN	12 25 37	3				
		iE	12 26 07	4				
		LE	12 27 35					
		ME	12 27 45	8		3		Epicentre close.
		FE	12 55					

SEISMOGRAPHIC STATION  
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Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					<sup>A</sup> <sub>N</sub>	<sup>A</sup> <sub>E</sub>	<sup>A</sup> <sub>Z</sub>	
			h. m. s.		μ	μ	μ	
	July, continued							
	31st.	?PN	8 53 48					P very doubtful.
		eN	8 55 16					S difficult to
		eE	8 57 12					read on NS comp.
		iN	8 57 16					4090?km.
		iN	8 58 45	4	3			A close analysis
		eN	8 59 22	15				would indicate two
		eSE	8 59 38					quakes, the first
		?eSN	8 59 40	10				at 8h53m48s with
		iSE	8 59 41	10				S at 8-58-45,
		iE	9 03 10	10		4		distance 3190 km.
		LE	9 04 30)					and the second
			9 06 00)					with P at 8-57-16
		LN	9 07 15	23				and S at 9-03-10
		ME	9 10 30	23		12		distance, 4120 km.
		MN	9 12 30	15	7			
		FN	10 09					
	31st.	LE?	?19 39 30	15?		2		Faint trace on
		F	Wind interfering.					NS component.

James Young,  
Seismologist.

SEISMOGRAPHIC STATION  
DEC 15 1925  
BERKELEY, CALIFORNIA

# Toronto

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6s 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

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\Delta_N$	$\Delta_{E}$	$\Delta_Z$	
			<small>h. m. s.</small>		$\mu$	$\mu$	$\mu$	<small>s</small>
	1925 AUGUST							
	1st.		Small sinusoidal waves recorded after 3h 28m, best record on EW component. Cut-off not working.					
	2nd.	eE LE FN	3-02-03 3-04-52 3-17	10		2		Small
	2nd	eN eE LE F	10-49-15 10-52-10 10-55 11-16?					No time marks. Small
	6th	LN eE LN FN	15-20-15 15-22-00 15-24-45 15-55-00	23	2			
	7th	eE LE FE	6-58-34 7-27-37 ?7-48	22		2		
	7th.	O eP iS LE LN ME FN	7-47-48 7-54-02 7-58-59 8-01-36 8-03-59 8-08-07 10-20	12 ? ? ?	14	9		3,190 km.
	8th.	eE EE F	3-42-59 3-44-59 4-13					Only slight trace on NS component.
	9th.	LN F	11-50-28 12-09		1			EW faint trace.
	11th.	LN F	17-32-15 17-56					Very small. Wind interfered with EW
	11th.	eN LN F	20-03-20 20-14-51 20-21-21					Very small. Wind interfered with EW component.
	12th.	eE eSE LN LE ME FE	7-06-29 7-10-59 7-13-44 7-13-59 ?7-17-46 8-24	23 15 12	8	2		
	13th	eN LN F	3-00-07 3-01-29 3-16	10	1			More marked on NS

SEISMOGRAPHIC STATION  
 DEC 28 1925  
 BERKELEY, CALIFORNIA

SEISMOGRAPHIC STATION  
 DEC 28  
 BERKELEY, CALIFORNIA

# TORONTO

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\mu$	$\frac{A}{E}$	$\frac{A}{Z}$	
	1925, August, continued.							
	13th	eE LE FE	19-01-40 19-03-00 19-12			2		Only slight trace on NS comp.
	14th	e LE LN ME F	4-28-16 4-49-57 5-22-00 5-28-27 7-54	15 22	4	7		Prolonged L waves. May be a dual eq.
	15th.	eN FN	14-44-27 14-51					EW not measureable
	16th	LE LE F	3-08-28 3-16-58 3-25	15	1	2		
	19th	e LE LN FN	4-16-21 4-22-26 4-23-50 4-45	12 15	2	1		
	19th.	iE LE LE MN FE	5-42-43 5-52-36 5-56-13 6-01-21 7-15	15 17	5	3		Marked sinusoidal waves.
	19th	O ePN eSN iSN ePE iSE LE MLE ME2 MN F	12-07-23 12-18-18 12-27-13) 12-27-17) 12-18-20 12-27-05 12-31-17 12-43-41 12-44-12 12-44-00 12-44-15 16-30	8 40 15 18 18 15		+157 -159 +82 -106		EW component well defined record. 7320 km. S waves came in lat on NS comp. 7500 km.
	20th	LE F	20-35-59 0-00					NS comp. not recording.
	24th.	LN LN F	11-10-30 11-12-38 11-14	15	1			EW comp. quiet.
	26th	LN F	5-03-22 5-08	15	1			Nothing on EW.

SEISMOGRAPHIC STATION  
DEC 28 1925  
BERKELEY, CALIFORNIA

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BERKELEY, CALIFORNIA



# TORONTO

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE	
					$\mu$	$\frac{A}{E}$	$\frac{A}{Z}$		
	1925. August, continued.								
	28th	eE LE PE	10-48-30 10-52-23 11-00		$\mu$	$\mu$	$\mu$	NS component too small to measure.	
	29th.	PE eE eSE eE LE ME F	? 22-47-08 22-48-00 22-49-20 22-50-00 22-55-00 0-28	15 12		41			NS component not recording.
	30th.	eE LE F	7-57-29 8-07-59 8-18						
	31st.	eN LN FN	1-21-07 1-21-29 1-28	8	1			Not far distant. Not recorded on EW component.	
	31st.	LE LE LN F	10-51-15 11-00-37 11-05-15 11-40	15	1	2			Barely noticeable on NS component.
	31st.	LE F	19-43-45 19-58			1			

James Young,  
Seismologist.

SEISMOGRAPHIC STATION  
 DEC 28 1925  
 BERKELEY, CALIFORNIA

# TORONTO

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6s 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

FROM ..... To .....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\mu$	$\frac{A}{E}$	$\frac{A}{Z}$	
	SEPTEMBER, 1925.							
	1st.	eE LE F	8-41-00 8-52-38 Cut-off irregular.					NS component, not measureable.
	1st.	LN FE	11-46 12-40?					
	2nd.	iE LE ME FN	11-59-23 12-00-10 12-00-19 12-00-53	4		2		More marked on EW component.
	3rd.	LN FN	9-34 9-52					Nothing on EW
	3rd.	eN FN	21-45-45 22-14					EW too small to measure.
	4th.	O ePN iSN LE LN ME MN F	10-36-05 10-42-19 10-47-16 10-49-23 10-50-21? 10-52-23 10-58-15 11-12	8 15	3	2		3190 km.
	5th.	P ePE iE eN LN LE ?eSN LE LN ME MN MN LE FN	16-41-08 16-49-40) 16-49-49) 16-49-52 16-54-06 16-54-08 16-57-18 17-00-37 17-04-00 17-12-30 17-12-48 17-14-38 17-25-00 19-28	17 15 18 15 15 15		20		Two or more earthquake records superimposed. Quake reported from Asia Minor.
	6th	LE LE FE	2-20-59 2-30 to 2-35 3-00-00	15		1		Sinusoidal. Slight traces on NS component.
	10th	eN LN FN	13-17-45 13-35-21 14-59	15	2			Only slight trace on EW component.
	10th	eN LN F	23-27-20 23-27-44 23-41	9	1			Short sinusoidal wave. Only slightly shown on EW

SEISMOGRAPHIC STATION  
 JAN 13 1926  
 BERKELEY, CALIFORNIA

# TORONTO

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... TO.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					$\mu$	$\frac{A}{E}$	$\frac{A}{Z}$	
SEPTEMBER, continued.								
	11th.	LN F	4-17-44 ?5-05					Slight traces on EW component.
	12th.	O PN eSN LN LE F	9-25-56 9-35-15 9-42-40 9-53-00 9-55-08 10-35	15 23	2	2		P barely discernable 3800 km.
	12th.	eN LN F	14-34-23 14-44-00 15-17		1			Not discernable on EW.
	14th	LE F	12-22-58 12-54-58					Small, only slight trace on US.
	15th.	LE LE F	5-33-56 5-37-56 5-50			1		NS component, too small to measure.
	16th	LN LN F	4-05-09 4-11-14 4-25		1			Wind interfered with EW component.
	20th.	LN F	8-33-59 8-47		1			EW too small to measure.
	24th.	eE? LE MN ME	0-52-26 0-53-58 0-52-45 0-54-17	12 15	3	6		Heavy winds mask early phases & F.
	24th.	eN LN F	23-37-45 23-51-50 ?0-05					Very small.
	25th	LN F	2-57-22 3-17	10	2			EW only faintly shown.
	25th.	LN F	9-26-38 9-30					EW only faintly recorded.
	25th.	LN LN F	10-07-00) 10-19-00 10-29	15	1			
	26th	LN	11-08?					Small sinusoidal. No cut-off on EW or at F.
	29th.	LN F	12-55? 13-00?		1			No cut-off. Wind on E interferes.
	29th	ePN eSN LN ME ME MEN F	17-39-37 17-44-29 17-47-00 17-48-37 17-48-11 17-53-29 19-39	17 17 15	14 19	23		O 17h33m29s. 3120 km.

SEISMOGRAPHIC STATION  
 JAN 13 1926  
 BERKELEY, CALIFORNIA

# TORONTO

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6s 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

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE km
					A <sub>N</sub> μ	A <sub>E</sub> μ	A <sub>Z</sub> μ	
	1925							
	OCTOBER.							
	1st.	ON	10-52-82					
		LN	10-53-12	11	3			
		LE	10-55-08	10		2		
		FN	11-03-30					
	4th	L	1-10-23					
		LE	1-16-30			1		
		FN	1-26					
	4th.	iE	3-52-10	10		4		
		iN	3-58-52	10	3			eN 3h54m13s.
		LE	?4-09-15			2		
		LN	4-11-22	12	2			
		F	4-58					
	4th.	ON	7-52-00					
		LN	8-16-00					Very small, only
		F	8-42-00					on NS component.
	4th.	ON	16-38-38					
		LE	16-56-00	22				Cut-off not
		LN	16-57-30	22	3			working on EW.
		F	17-40					
	5th	O	4-08-55	15	3			P & S large. 3350 km.
		iPN	4-15-23					Possibly two auaques
		PR1	4-16-11					with L waves super-
		iSN	4-20-30	4				imposed. No cut-off
		LN	4-23-45					on EW component.
		LN	4-24-23					
		M1	4-29-30	19	36			
		M2	4-30-47	19	36			
		F	Merged into next quake.					
	5th.	iPN	4-16-45					
		iSN	4-21-19	15				2880 km. Phases merged
		F	7-18					into previous quake.
								No cut-off on EW but
								amplitude larger.
	9th	EN	8-37-52					
		FN	8-53					
	9th.	LN	?13-53-30					
		F	Micros.					Micros interfere with
								EW component.
	12th	L	5-54-53	10	3			
		FN	5-57					Marked sinusoidal
								waves. More marked on
								NS. From close epicentre
	12th	iE	6-04-29	6				
		LE	7-07-16					
		LE	7-08-40	17				
		LN	7-05-23	23	10			Active micros going on.
		F	Micros.					

FEB 17 1926  
 FENKLEY, CALIFORNIA

# TORONTO

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
	October	continued.						
	13th.	O	17-46-33	.	μ	μ	μ	km
		1PE	17-49-02	6				
		1E	17-49-46	8				
		1SE	17-55-45					
		3RLE	17-59-02	9				
		1LE	18-02-23					P & S well defined
		1N	17-55-50	12	132			and of large amp.
		1N	18-02-49	15	155			5020 km.
		1NE	18-04-47	22		138		
		1E	20-23-00	15				
		1N	21-19					
	14th	1N	11-02-10					Barely noticeable
		1N	11-16					on E
	14th	eN	22-53-25					
		1N	22-55-37	15	1			Barely shown on
		1N	23-00					E component.
	15th	eN	13-03-22					Very small. Faint
		eN	13-07-50					waves on N.
		1N	13-17-45					
		1N	14-11					
	15th	eE	17-59-08					
		eN	17-59-51	12	1	1		
		1E	18-14-00					
	15th	L	18-44-15					
		1N	18-46-15		1			
		1E	18-57					
	15th	e	23-48-48					
		1N	23-56		1			
		1N	0-13					
	16th	eE	2-23-12	8		1		Faint waves.
		1N	2-25-00					
		F	2-59					
	17th.	eN	13-59-24					
		eN	14-06-45					
		1E	14-11-45	12		2		
		1N	14-12-45					
		1N	14-14-18	12	3			
		1N	Micros.					
	18th.	eE	8-48-38					
		1N	8-57-00		1			
		1E	9-04-00			1		
		1N?	9-45-30		2			Irregular waves.
		1E	10-12-00					
	19th	1PN?	10-58-42	Irregular.				
		1SN	10-59-45	4				570 km.
		1LN	11-00-08					Quake reported from
		1MN	11-00-24	11	40			New England States
		1ME	11-00-34	12		9		Micros going on.
		1MN	11-00-35	11	40			F. Micros.
		1ME	11-02-30	10		8		

15th. n m s  
 eE 16-03-22  
 FE 16-10-00  
 Very feeble on NS

SEISMOGRAPHIC STATION

FEB 17 1926

BERKELEY, CALIFORNIA

# TORONTO

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE km
					A N	A E	A Z	
					μ	μ	μ	
October, continued.								
	19th.	1E 1N	11-58-57 12-00-02					After shock, very small.
	19th.	LN P	12-04-23 Micros.	15	8			Marked sinusoidal, more pronounced on NS.
	21st.	LN LN NE FN	17-52-43 17-58-25 18-02-50 18-45-00	15 15	2	2		
	22nd.	LN LN LN P	17-29-23 17-33-45 17-44-08 Merged into next quake.	15	1 2			Irregular waves.
	22nd.	LN LN LE LN LN FN	17-42-23 18-16-38 18-16-05 18-22-00 19-19-32 19-30-00	12 35 23 23 15		17		Appears to be two or more quakes.
	23rd.	1N LN FN	2-07-08 2-30-00 2-41	6	1			EW component, not measurable.
	23rd.	LN P	3-18-27 3-52		2?			EW too small to measure.
	25th.	1E LN P	1-28-23 1-29-46 Micros.					
	25th.	LE LE LN P	4-58-00 5-04-00 5-06-30 to 5-11-23 ?5-34	30 19	5	8		
	30th.	LN LN P	15-41-23 to 15-56-00 15-46-26 Marked micros.	23 to 15 17	4			

James Young,  
Seismologist.

BERKELEY, CALIFORNIA  
 FEB 17 1926

# TORONTO

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 40' 0.8" N. LONGITUDE, 5h 17m 35.6s 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

FROM..... TO.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude		DISTANCE
					A E	A Z	
	November 1925.						
	1st.	eN LN FN	15-24-30 15-24-45 to 15-25-53 15-25-02	12 12	9		Sinusoidal waves. Micros at F, very little change on EW. Appears to be local.
	6th	eE LN FN	14-14-45 14-15-15 14-55	Irregular.			Very small.
	6th.	LE? F	16-20-10 Micros.				NS component, quiet.
	9th.	eN FN	11-04-30 11-18-00				Micros mask EW
	9th.	eLE LE LN FN	20-08-33) 20-11-15) 20-09-02 20-20-00	15 10 13	9?	4	
	10th	eE 1SE? LE LE MLN M2N LE FE	14-13-11 14-25-12 14-47-18) 14-49-45) 15-01-19) 15-03-54) 15-06-03 ?17-30-00	45 23 23 18	84? 92?	47	S not well defined Press reports state quake in N. Chili.
	13th	eN eSN 1E LN MLE M2E MN FN	12-34-55 12-44-47 12-51-17 12-57-00 13-34-52 13-35-48 13-38-54 16-18-00	15 15 17	57	17 17	P ill defined.
	14th	eN FN	9-12-00 ?10-00-00				EW very faint.
	14th	LN	10-57-00				F winds. EW too small to measure.
	14th.	L LN FN	23-02-10 23-05-15 23-13-00	Irregular Irreg. 1?		3?	
	16th.	O 1PN eSN 1SN LN P 1LN FN ME	11-55-07 12-01-46 12-07-02 12-07-12 12-09-45) 12-13-22) 12-14-11 12-16-28	10 15	96	120	3490 km. Micros at F.

SEISMOGRAPHIC STATION

MAR 2 1926

BERKELEY, CALIFORNIA

# TORONTO

## EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT.

INSTRUMENTS—Two Milne-Shaw Seismographs.

FROM..... To.....

NO.	DATE	PHASE	TIME	PERIOD	Amplitude			DISTANCE
					A <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>	
			h. m. s.	s.	μ	μ	μ	km
November, continued.								
	17th.	eE	0-24-32					
		ePE	0-26-19					
		eSE	0-34-47					
		eE	0-37-00					
		LE	0-42-00	23				
		ME	0-48-56	23		12		NS component, not recorded
		F	Micros.					
	19th.	iE	16-19-06					
		iE	16-19-20	5				
		LE	16-20-00					
		ME	16-19-45	12	13			
		NE	16-21-00	8		2		Not far distant.
		FN	17-02-00					
	19th	eN	19-57-00					
		LN	20-00-00					Feeble. Micros on E7.
		FN	20-50-00					
	23rd.	iE	9-52-09	Rapid.				Very small, more pronounced
		iE	9-52-35					on E7 component.
		FN	9-52-56					
	28th.	eN	6-50-30					Faint trace, nothing on
		FN	7-00-00					E7 component.
	28th.	oN	8-33-41					
		LN	8-36-33					
		LN	8-40-45	10	2			Small.
		LE	8-42-08					
		FN	9-06-00					
	28th	O	12-33-24					
		iPE	12-39-23					
		iSH	12-44-08					
		LN	12-47-21					
		ME	12-48-04	10	7			3030 km.
		ME	12-48-08	8		9		
		FE	13-21-00					
	28th.	eN	16-43-26					
		oE	16-50-23					Long distance quake,
		LN	17-06-00	23	17			No defined Max.
		LN	12-09-08	15				
		LE	17-18-00	18		9		
		F	to 17-36-00					Sinusoidal L.
		F	19-27-00					

SEISMOGRAPHIC STATION

MAR 2 1926

BERKELEY, CALIFORNIA

James Young,  
Seismologist.



# 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

Period 12 seconds  
Magnification 150

Damping 20-1  
REMARKS

NO. AND DATE	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
December 1925.								
7th	eN	9-21-54						
	LN	9-32-03						
	LE	9-39-25			2			
	MN	9-38-43	18	3				
	F	Micros.						
9th	eN	11-53-45						EW clock under repair.
	LN	11-56-30	10	2				
	FN	12-06-00						
10th	O	14-14-31						
	oPN	14-21-04)						
	iPN	14-21-12)	15					EW clock under repair. 3410 km. P & S large and well defined.
	iN	14-22-22						
	iSN	14-26-15	10					
	iLN	14-29-22	15					
	MN	14-36-52	15	-440				
	MN	14-37-30	15	+452				
FN	18-19-00							
10th	eN	19-51-23						EW clock under repair.
	LN	19-52-00		1				
	FN	20-00-00						
10th	eN	20-51-10						
	LN	20-54-12	15					
	LE	20-56-08	10		2			
	MN	20-56-28	10	6				
	FN	21-25-00						
11th	eE?	1-39-26						(This quake should be entered after the next)
	LE	1-44-13						
	ME	1-47-18	12		3			
	MN	1-50-23	12	16				
	FN	2-49-00						
11th	eN	1-03-24						Short irregular waves superposed on micros.
	LN	1-13-11						
	LE	1-21-13			2			
	MN	1-23-26	15	4				
	F	Merged into next quake.						
11th	eN	12-51-25						
	eE	12-56-35						
	LN	12-57-25						
	MN	12-59-50	12	3				
	FN	13-13-00						
11th	eN	19-38-49						EW very faint trace.
	LN	19-41-30		1				
	FN	19-51-00						

# 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 <sub>N</sub>	A <sub>E</sub>	A <sub>Z</sub>		
December, continued.								
		h. m. s.	s.	μ	μ	μ		
14th	LN eN FN	8-01-28 8-03-13 18-23	8	1				EW, blunt needle point.
14th	eN eN FN	18-35-37 18-38-30 18-40-00						Micros on EW
15th	eN FN	3-57-15 3-59-00						Micros mask EW phases
17th	eN iN LN F?	?3-51-38 ?3-51-56 3-53-00 3-56-00	15	4				Heavy micros mask EW
19th	O ePNE iPN eSN iSNE LN MN F	16-09-31 16-21-43 16-21-53 16-31-52 16-32-00 16-49-10 16-52-10 Micros.	19	62				8980 km. Marked micros make P doubtful.
22nd.	PN ePN eN eLN MN ME FN	5-34-23 5-35-12 5-55-08 6-06-00 6-10-55 6-11-23 7-32-00	6 10 37 30 26	13		?12		
23rd.	eN LN MN FN	11-14-25 11-22-48 11-23-24 11-41-00	5	4		4?		
27th.	eE eE LE LE FN	?11-33-36 11-35-37 11-38-10 11-58-00 ?12-08-00	23 18			14 6		Irregular waves, NS small amplitude.
27th	iN LN MN FN	17-54-23 18-02-38 18-05-33 18-52-00	22	11				Winds interfere with phases on EW
29th	eN LN LE LE FN	2-39-22 2-50-31 2-56-26 3-00-12 ?3-27-00	15 17	3		3		Unusually heavy tremor storm on 24th, 25th, and 26th.
31st.	eE eN LE LE LE FN	9-11-25 9-12-35 9-37-05 9-38-15 9-38-19 to 9-48-00 ?11-15-00	23 23to 15	8		20		

James Young,

Seismologist