

TORONTO

1932

SEISMOGRAPHIC STATION, METEOROLOGICAL SERVICE OF CANADA

LAT., 43° 39' 53" N. LONG., 79° 23' 46" W. H = 111m.

INSTRUMENTS—Two Milne-Shaw

SUBSOIL, Sand and Clay

No. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	REMARKS
		h.	m.	s.			
1932 January.	O	1-54-12					
5th	PN	2-05-51?					Time shutter not in operation after 2h 02m, renders readings a bit doubtful.
	iSN	2-15-37?			8344		
	LN	2-31-?					
	F	3-54					
9th	eNE	10-41-14					Indefinite movements. L waves quite small. Probably deep focus.
	iE	10-45-30					
	iN	10-45-29					
	iNE	10-46-11					
	iE	10-57-24					
	iN	10-57-22					
	iE	11-00					
	F	13-46					
13th	eN	16-36-11					
	LN	16-46-45					
	F	17-58					
17th	eN	8-24-30					Small amplitude.
	eL?	8-40					
	F	10-07					
20th	ePN	2-40-28					
	eSN	2-49-12					Lima, Peru.
	eL?	3-02					Small amplitude.
	F	3-20					
24th	eE	4-04-20					
	eE	4-10					NS record not so marked.
	eE	4-13-38					
	eE	4-21					
	eL	4-39					
	F	6-30					
29th	iEN	13-59-15					
	iN	14-01-23					Operator in vault from 14h 34 to 14h 50.
	iE	14-01-25					
	iE	14-11-23					
	iE	14-18-07					
	iE	14-22-23					
	F	18-00					
30th	eE	3-25-50					
	iE	3-30-22					Phases indistinct Small amplitude.
	iE	3-35					
	eN	3-41-07					
	F	5-30					
Minor Disturbances on the 3rd, 6th, 7th, 18th, 21st, 22nd, 24th, 25th, (2), 27th, 29th, 30th, 31st (3).							
FEBRUARY.	O	6-15-51					
3rd.	iPN	6-21-13					
	ePE	6-21-14					2644 Cuban eq. Santiago badly shaken. Well marked.
	iSE	6-25-23					
	iSN	6-25-27					
	iLE	6-27-45					
	M	6-30					
	F	10-22					
3rd.	eE	12-40-26					
	eN	12-46-16					Small amplitude. eLE? 12-50.
	F	13-46					
16th	eE	14-14					Operator in vault during L phases. Early phases mixed with previous eq.
	iE	14-17-02					
	iE	14-23-16					
	F	16-30					

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SUBSOIL, Sand and Clay

NO. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	REMARKS
		h.	m.	s.			
1932							
FEBRUARY (continued)							
17th	eN	16	11	23			
	eN	16	13	23			Trailers mixed with
	iN	16	18	33			wind vibrations.
	F	17	30	?			
<hr/>							
23rd.	eN	0	33	43			
	eN	0	42	27			
	iN	0	43	20			Distant quake.
	iN	0	49	45			
	eN	0	54	08			
	L?	1	03	14			
	F	2	50				
<hr/>							
25th to 27th	Records lost when time eclipse did not function.						

Minor disturbances also recorded on the 4th at 8h 18m; 14th at 13h 41m; 17th at 11h 46m; 17th at 23h 24m; 18th at 14h 52m; 22nd at 4h 46m; 23rd at 20h 53m; 29th at 5h 09m.

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NO. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	REMARKS
		h.	m.	s.			
1932.							Period 12 seconds Magnification 150 Damping 20-1
MARCH .							
14 th	iE	4-	17-	36			
	ΔN	4-	17-	40			
	iN	4-	19-	17			
	iLE	4-	23-	32			
	iLN	4-	24				
	F	5-	09				
14 th	O	22-	42-	29			
	iPN	22-	49-	50			
	ePE	22-	49-	52			
	iPR ₁ N	22-	51-	04			
	iSNE	22-	55-	30	4056		
	SR ₂ N	22-	58-	30			
	LN	23-	00				
	MN	23-	04				
	F	0-	30				
19 th	eN	11-	24-	22			Small amplitude.
	eN	11-	28-	07			Wind effects, mask EW
	eLN	11-	48				record.
	F	13-	00				
25 th	O	23-	58-	23			Smaller movements
to	iPNE	0-	06-	51			shown before "iP",
26 th	iPR ₁ N	0-	08-	38			beginning about
	iPR ₁ E	0-	08-	44			0h 03m.
	iSN	0-	13-	27	5000		Alaska.
	iSE	0-	13-	31			
	iSR ₁ N	0-	16-	52			Trailers lost in
	LN	0-	20-	13			second quake.
	F	2-	25				
26 th	eN	2-	24-	23			Preliminaries mixed
	LN	2-	34				with trailers of
	F	3-	25				previous quake.
							Small amp.
26 th	eN	10-	08				
	iN	10-	15-	08			
	iN	10-	36-	52			
	LN	10-	50-	30			
	F	13-	00				

Other minor quakes recorded on the 2nd, 17h 56m; 8th, 4h 53m; 8th, 18h 36m; 9th, 3h 08m; 10th, 5h 52m; 15th, 5h 10m; 16th, 23h 18m; 18th, 6h 26m; 20th, 0h 01m; 21st, 3h 50m; 23rd, 12h 50m; 24th, 3h 49m; 28th, 1h 18m; 29th, 0h 42m; 29th 4h 04m; 30th, 16h 00m; 31st, 19h 13m.

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NO. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	REMARKS
		h.	m.	s.			
1932 April.							Period 12 seconds. Damping 20-1 Magnification 150
3rd.	eN	21-04-31					
	eN	21-06-37					
	eN	21-28-35					Small amplitude.
4th	F	23-23					
	eN	19-33-37					
	iN	19-39-22					
	LN	19-45-30					Small amplitude.
8th	F	20-48					
	eE	12-21					
	LE	12-50					do. do.
14th	F	14-12					
	eN	1-49-36					
	L?	1-54-15					do. dā.
16th	F	2-36					
	eNE	3-06-21					
	eN	3-11-41					Period of 9 seconds.
	LNE	3-15-11					
24th	F	4-13					
	eN	6-17-05?					
	eN	6-19-22?					
	iN	6-20-37?					Time eclipse out of order, times a bit doubtful.
	SN?	6-22-22?					
29th	LN	6-26-37?			12		Early phases not clear. Amp. 64 microns.
	F	7-18					
	ePN?	18-29-37					
	iE	18-33-06					
	eN	18-33-08					
	iN	18-34-37					Small amplitude.
eS?	18-37-17						
LEN	18-45-15						
F	20-02						

Seismic movements of minor importance on the 4th-15h 29m;
5th-2h 41m; 5th-12h 09m; 5th-22h 11m 30s; 8th-22h 59m;
13th-0h 18m; 18th-12h 20m; 18th-22h 23m; 21st- 12h35m;
25th-8h.04m; 26th-8h 15m; 30th-1h 20m.

MAY.

1st	eN	19-17-09					
	iLN	19-20-20			8		
	F	19-44					Cut-off not regular, repairs to eclipse.
14th	O	13-10-54					
	iPNE	13-27-14					
	iP'N	13-30-20					
	iP'E	13-30-16					
	iPR ₁ N	13-32-35					
	iPR ₁ E	13-32-37				14,700	
	iN	13-33-41			8		
	iE	13-33-34					
F	18-30						

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No. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	REMARKS
		h.	m.	s.			
1932 MAY (Continued)							
21st.	O	10-09-55					Large disturbance. S amp. on NS, 82 microns San Salvador badly shaken with loss of life. Amp. 105 microns.
	iPNE	10-16-28					
	iPR ₁ NE	10-17-20					
	iPR ₂ N	10-17-35					
	iSNE	10-21-27	7		3411		
	LE	10-24-22					
	LN	10-25-20					
	F	15-21					
22nd	iN	11-55-43					Distant. Small amp.
	L	12-19					
	F	12-41					
22nd.	O	22-39-44					3411
	ePN	22-46-17					
	iSN	22-51-18					
	LN	22-54-42					
	M	22-57-30					
	F	23-30					
26th	O	16-08-45					Records of two com- ponents quite diff- erent in character- istics. Distance 113.8 (est. P-PR1)
	PEN	16-23-47					
	P'EN	16-26-44					
	iPR ₁ EN	16-28-38					
	iPR ₂ E	16-31-22					
	iPSE	16-37-21					
	iSR ₁ EN	16-44					
	L	17-03-45					
	F	19-34					

Minor disturbances shown on the 1st at 0h 14m; 4th-7h 05m;
5th-9h 34m; 6th-4h 41m; 7th-11h 22m; 14th-0h 49m;
14th-9h 24m; 16th-1h 48m; 18th-20h 11m; 26th-6h 14m;
26th-22h 44m; 28th-2h 45m 43s; 31st-8h 54m.

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NO. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	Period 12.56 seconds Magnification 150 Damping 20-1
		h.	m.	s.			
<u>June 1932ⁱ</u>							
3rd	O	10-36-11					
	ePN	10-43-15					Very large, destructive Mexican quake. Region of Guadalajara.
	iPN	10-43-36					
	iPR ₁ N	10-44-16					
	iSN	10-48-39					
	iN	10-49-02		18			
	LN	10-55-30			3811		
	F	Lost in aftershocks.					
	ePE	10-43-13					
	iPE	10-43-34					
3rd.	ePN	16-33-14					
	iSN	16-38-28					
	MN	16-45-35			3656		Aftershock.
	F	17-03					
3rd.	ePN	17-47-14					
	eSN	17-52-06					
	LN	17-55-37			3311		Aftershock.
	M	17-58-19					
	F	19-14					
5th	eN	9-11-19					Amplitude 19 microns
	eN	9-16-25					
	i	9-20-41					Aftershock.
	LN	9-24		12			
	F	10-55					
Smaller aftershocks recorded on the 3rd at 15h 15m; at 15h 25m 30s; at 17h 09m; at 19h 17m; at 20h 13m; at 20h 30m; at 21h 57m; at 22h 09m; at 23h 42m; On the 4th at 0h 22m; at 2h 37m; at 4h 06m; at 5h 32m; at 10h 53m; at 14h 09m; at 16h 17m; at 19h 16m; at 21h 49m; On the 5th at 3h 58m; at 14h 03m; at 16h 42m.							
6th.	O	8-42-40					
	iPE	8-51-21					
	ePN	8-51-26					Destructive in Eureka, California Max. period 21 seconds amplitude 240 microns
	iSE	8-55-26					
	iSN	8-56-18					
	SR2N	8-58-30					
	LN	9-00			3511		
	LE	9-01					
	F	11-21					
6th.	O	11-49-46					
	ePN	11-55-18					
	iS	11-59-35			2744		Felt in Santiago, Cuba. Not so well marked on E.W.
	eL	12-02-29					Small record well defined on NS.
	iL	12-03-45					
	M	12-04-57					
	F	13-00					
8th	eN	5-08-45					
	eN	5-12-16					
	eLN	5-17-16					
	F	5-50					
8th	eN	6-07-48					L waves, period 9 seconds. Not so marked on EW
	eN	6-16-50					
	eLN	6-25-55					
	F	9-10					
9th	eN	4-42-22					
	eN	4-47-31					
	LN	4-53-39					
	F	5-55					
16th	eN	1-40-28					
	eN	1-41-15					
	eN	1-47-09					
	F	3-17					

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SUBSOIL, Sand and Clay

NO. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	REMARKS	
		h.	m.	s.				
June (continued)								
18th	O	10-12-12						
	ePN	10-18-37						
	iPN	10-18-59						
	iPR1N	10-19-38					Max between 10h 30	
	iPR2	10-20-05					and 10h 37m, period	
	iSN	10-24-09					14 seconds, Amplitude	
	iN	10-24-30			3589		583 microns.	
	iLN	10-28-22						
	F	14-50					Very severe. Mexico.	
	ePE	10-18-32					Colima badly shaken	
	iPE	10-18-58					with lives lost.	
	iSE	10-24-08						
20th	O	9-01-32						
	ePN	9-08-16						
	PR3	9-09-41			3533		Small amplitude.	
	eSN	9-13-23						
	LN	9-17-35						
	F	Lost in next quake						
20th	eN	9-34-38						
	eLN	9-45					Small amp.	
	FN	10-56						
21st.	eN	4-31-38						
	iN	4-45-11						
	eLN	4-54-30					Do.	
	F	5-25						
22nd.	O	12-58-59						
	ePN	13-05-58					Destructive, Mexico.	
	ePE	13-05-57					Tidal wave wiped	
	PR1N	13-06-54			3733		out town of	
	iSNE	13-11-17					Cuyutlan.	
	iSR2N	13-14-32					Max. amp. 154 microns.	
	LNE	13-16						
	MN	13-19		11				
	F	16-36						

Minor quakes recorded on the 7th at 19h 50m; at 22h 26m; on the 8th at 3h 32m; at 7h 40m; at 10h 48m; at 22h 53m; 9th at 3h 31m at 21h 54m; 10th at 12h 46m 30s; at 19h 54m; at 20h 42m; at 23h 28m; 11th at 17h 26m; 13th at 21h 50m; 14th at 6h 16m; 18th at 0h 45m; at 22h 10m; 19th at 8h 59m; 20th at 4h 38m; 22nd at 1h 28m; at 16h 39m; 23rd at 3h 13m; at 22h 10m; 24th at 7h 26m; at 9h 57m; 25th at 12h 08m; at 21h 12m; 26th at 19h 40m 23s; 27th at 9h 13m; 29th at 18h 56m; at 22h 38m; 30th at 17h 32.,.

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LAT., 46° 39' 53" N. LONG., 79° 23' 46" W. H = 111m.

Period 12 seconds

Dampings $\frac{1}{20}$ SOIL, Sand and Clay

Magnification 150.

INSTRUMENTS—Two Milne-Shaw

NO. AND DATE	PHASE	G. M. TIME			PERIOD	▲	REMARKS
		h.	m.	s.			
7th	O	16-15-36					
	iPE	16-22-07					
	iPN	16-22-09					
	eE	16-26-51					Amplitude 616 microns
	iSNE	16-27-08					
	iSR2N	16-29-36				3411	
	LN	16-30-31					
	M	16-32 to 34			10		
	F	19-30 ca.					
10th	eN	1-12-30					
	L?	1-26-45					Small amplitude.
	F	2-21					
10th	eN	8-08-26					
	L?	8-29					do.
	F	9-26					
12th	O	19-23-39					
	iPN	19-30-20					
	PR1N	19-31-16					Amp. 368 microns.
	iSN	19-35-25				3511	
	SR1N	19-37-16					EW time clock not operating well.
	LN	19-39-39			10		
	F	22-50					
25th	O	9-12-22					Reported from Mexico State of Colima.
	iPN	9-19-22					Town of Tecoma almost 50% destroyed.
	iPE	9-19-24					
	iPR1N	9-20-19					
	iSN	9-24-43				3756	
	iSE	9-24-41					Amp. 64 microns.
	LN	9-29-52					
	MN	9-32-50			11		
	F	13- ca.					
Minor shocks recorded on the 2nd, 3rd, 6th, 8th, 9th, 12th, 13th (3), 14th, 16th, 18th, 20th (2), 21st (3), 23rd (2), 25th, 27th, 29th, 31st.							
AUGUST.							
12th	O	3-23-42					Well marked,
	PN	3-33-27					
	eSN	3-41-15					Amplitude 46 microns
	iN	3-43-14					
	iSR1	3-45-50				6244	
	LN	3-51-23					
	M	3-56			17		
	F	6-58					
13th	eN	21-14					F- 23h 18m.
	eN	21-37-27					Sinusoidal L waves 22h05m to 23h.
	eL?	21-44-20					
13th	eN	4-57-27					i 5-07-40
	iN	5-04-22					i 5-13-50
	L?	5-25					F 7-24. Distant
17th	iN	8-58-27					
	eN	9-01-35					F-9h 46m
	L	9-05-49					
25th	iN	8-17-48					F 9h 14m.
	iN	8-21					
	L	8-24					

Minor quakes on the 1st, 2nd, 4th, 5th (2), 6th (2), 10th (3), 11th (2), 15th, 18th, 19th (3), 20th (2), 21st, 22nd, 24th (2).

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Period 12 seconds. Sand and Clay

Magnification 150

Damping 20-1

NO. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	REMARKS
		h.	m.	s.			
1932							
September.							
8th	iN	1	48	36			Unless otherwise noted times are from NS. Period of 10 seconds.
	i	1	52	46			
	i	1	58	41			
	L	2	00				
	F	3	03				
14th	Q	8	43	27			4644
	e	8	51	16			
	iP	8	51	31			
	iPE	8	51	39			
	iPR1NE	8	53	16			
	SNE	8	57	46			
	SR1	9	01				
	L	9	04	30			
	F	10	11				
15th	e	14	18	16			Early phases lost at change of record 14h11m. New Zealand reports strong quake.
	e	14	20	16			
	L?	14	47	39			
	F	17	17				
23rd	O	14	22	35			P on NS lost by obstruction of paper clip.
	iPE	14	34	23			
	iPR1E	14	37	58			
	iSE	14	44	16			
	iSN	14	44	21		8500	
	iE	14	46	07			
	LE	15	00				
	F	17	20				
26th	Q	19	20	44			Disastrous, Macedonia & Jugo-Slavia. Pronounced distur- bance.
	ePN	19	32	03			
	ePE	19	32	06			
	iP	19	32	11		7956	
	iSNE	19	41	29			
	iL	19	55	08			
	F	22	43				
29th	O	3	57	18			7922
	eP	4	08	35			
	iS	4	18				
	L	4	32	37			
	F	5	38				
29th	e	17	59	15			eR 17-58-24 Poorly marked, wind vibrations effect record.
	e	18	08	30			
	L?	18	34				
	F	20	10				
<u>Minor quakes on the 3rd, 4th, 5th, 6th, 9th, 11th, 13th, 15th, 25th, 28th, 29th</u>							

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No. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	REMARKS
		h.	m.	s.			
1932							
October							
2nd.	C	2	59	33			
	iP	3	05	42			
	iS	3	10	23			
	iSR ₁	3	11	10			
	L?	3	13	27		3244	
	M	3	16	3k			
	F	5	50				
11th							
	e?	19	19	20			Record interfered by wind and micros.
	iL	19	24	30			
	F	20	20				
16th							
	C	12	08	03			
	ePNE	12	17	03			
	FR ₁	12	19	03			
	eSNE	12	24	08			
	iS	12	24	15			
	SR ₁	12	28	04		5500	
	LR	12	28				
	F	15	00				
29th							
	e	3	49	08			Phases not clear.
	e	3	54	15			
	F	4	42				
30th							
	C	20	47	02			Sheet masked by microseisms.
	eP	20	56	02			
	iS	21	03	07			
	L	21	11	46		5500	
	M	21	15	29			
	F	22	29				

Minor quakes on the 1st, 3rd, 9th, (3), 10th, 12th, 15th, 17th, 23rd, 26th, & 29th.

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INSTRUMENTS—Two Milne-Shaw

SUBSOIL, Sand and Clay

NO. AND DATE	PHASE	G. M. TIME			PERIOD s.	Δ	Period in milliseconds Magnification 150 Damping 20-1
		h.	m.	s.			
1932							
November,							
2nd	O	11-03-26					Readings given are taken from NS unless otherwise noted. Small amplitude.
	eP	11-14-49					
	iS	11-24-19					
	iPS	11-24-50			8022		
	L	11-38-43					
	F	13-10					
13th	O	4-47-03					Initial phases show decided impulse.
	iP	4-59-10					
	i	5-09-04					
	iS	5-09-22			8900		
	iSR1	5-15-10					
	L	5-25-51					
	F	7-10					
17th	Moderate eq. with O at 6h 02m 46s, cannot determine time of arrival of phases as eclipse not in order.						
29th	eP	11-22-52?					Times approximate as eclipse of light not satisfactory.
	iS	11-32-23?					
	L	11-50-29?					
	F	14-00					
3rd-5th,	Heavy microseismic storm shown on record. Small seismic disturbances shown on the 7th, 8th, 12th, 13th, 19th (2), 26th & 29th (2)						
<u>DECEMBER.</u>							
4th	e	8-31-15					Distant, phases not distinct, F lost in quake following.
	i	8-32-47					
	i	8-33-46					
	i	8-44-26					
	i	8-51-39					
4th	i	10-55-32					Small amp. Preliminaries merged into previous eq.
	F	12-31					
7th	O	16-21-34					Time eclipse not operating well.
	iP	16-28-44?					
	PR1	16-29-35?					
	iS	16-34-13?					
	L	16-39-29?			3889		
	M	16-41-37?					
	F	19-00					
9th	i	8-48-33					
	iS	8-52-48					
	L?	9-05-11					
	F	9-34					
19th	O	6-28-51					EW record better defined than NS
	iE?	6-34-24					
	iPE	6-35-32					
	ePR1E	6-36-23			3511		
	eN	6-36-38					
	SE	6-40-37					
	SN	6-40-40					
	LE	6-44-23					
	ME	6-47					
	F	7-57					

TORONTO

SEISMOGRAPHIC STATION, METEOROLOGICAL SERVICE OF CANADA

LAT., 43° 39' 53" N. LONG., 79° 23' 46" W. H = 111m.

INSTRUMENTS—Two Milne-Shaw

SUBSOIL, Sand and Clay

NO. AND DATE	PHASE	G. M. TIME			PERIOD s.	▲	REMARKS
		h.	m.	s.			
December 1932 (continued)							
21st.	O	6	09	56			
	eP	6	16	11			
	iPE	6	16	16			
	e	6	16	34			
	ePR2	6	17	26	3200		
	i	6	19	29			
	iE	6	20	33			
	eS	6	20	56			
	iS	6	21	03			
	iSE	6	21	09			
	iSR2	6	21	54			
	iLNE	6	24	25			
	M	6	26	to 6-32			
	F	10	ca				
							Amp -941 microns. L phase.
25th	O	2	04	46			
	iP	2	18	00			
	iPR1	2	21	41			
	ePR2	2	23	59			
	iPR3	2	25	41			
	iScPS	2	28	47			
	iS	2	29	07	10,233		
	iPB	2	30	34			
	SR1	2	35	11			
	SR2	2	40	21			
	L	2	48	56			
	M	2	55	56	23		
	F	6	06				
	ePE	2	17	55?			
	eSE	2	29	15			

Minor quakes shown on the 3rd (2), 4th, 7th, 10th, 15th, 18th, 20th, 21st, 24th (2), 26th (2), 28th, 29th, 30th, and 31st.

Wm. G. Carroll.