

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 10 seconds.

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

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
JANUARY 1928.							
1st.	iPNE	9-32-17		μ	μ	μ	
	eSN	9-37-26					
	iSN	9-37-34	8				P on EW component
	eSE	9-37-33					emersion.
	iSE	9-37-36	10				
	LN	9-40-03	10				
	iE	9-46-59					
	M1N	9-50-44	13	21			3380 Off SW coast
	M2N	9-57-07	13				of Mexico.
	M3N	9-58-11	13				
	FN	11-30					
1st.	eN	19-03-29					
	eN	19-06-05	8				L waves not marked.
	LN?	19-10-52					
4th.	eN	22-04-04					
	LN)	22-21-13					Heavy winds interfere
	LN)	22-34	23	4			with EW
							F not distinguishable.
5th.	iN	21-55-51					
	iE	22-03-34	4				
	iN	22-04-42					
	FN?	22-26					
6th.	iN	19-57-12					
	eLN	20-18-08					
	LN	20-23-08	30	1			
		to 20-28-30	to 38	40			FN? 22h57m
	ME	20-26-30	30		43		
	LE	22-25-to	23		40		
		22-38					Very uniform waves.
9th.	LN	13-51-15					
	iN	13-58-25					
	F	Micros.					
10th.	LN	3-18-45					
	LN	3-33-23	18	2			
	FN	4-12					
10th.	LE	6-12-00			2		Phases interfered with
							by micros.
10th.	LN	17-28-00		1			
	FN?	17-50					Wind interferes with EW.
12th.	iN	13-27-39					
	LN	13-53		2			
	LE	14-00	15		2		
	FN	15-18					
18th.	eN	12-52-00					Time marks failed.
	LN	12-57-00		2			
	FN	13-05					
19th.	Small quake from 23h 40m to oh 22m.						

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

Time: G. M. T. MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw Seismographs

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
JANUARY, continued, 1928.							
20th.	iN	4-27-12					Appears to be from fairly close epicentre
	M1N	4-27-40	11	16			
	M2N	4-28-40	10	14			
	M1E	4-28-35	10		8		
	M2E	4-29-50	8		7		
	F	Micros.					
25th.	Small record from 21h 20m to 21h 50m.						
26th.	Small record from 19h 41m to 20h 08m.						
26th.	eN	22-33					
	LN	23-10					
	LN	23-19-15	23	8			
		to 23-24	to 15	8			
	LE	(23-02-15					
	LE	(23-12-38	23		5		
	FN	0-06					
29th.	Small record from 0h 32m to 1h 20m 10s. Cut-off not working.						
30th	(LE	4-31					Irregular waves to 4h 47m 23s.
	(LE	4-40			3		
	LN)	4-36		2			
	LN)	4-42-23		2			
	FE	?5-26					

James Young,
Seismologist.

TORONTO

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 59' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

PERIOD 12 seconds
Magnification, 150
Damping 20-1

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A _N	A _R	A _Z	
FEBRUARY 1929.							
		<small>h. m. s.</small>	<small>sec.</small>	<small>μ</small>	<small>μ</small>	<small>μ</small>	
1st.		Very small record from 11h 34m to 11h 42m on N& S only.					
2nd.		Small record oh 30m 08s to Oh 40m?					
3rd.	eN	14-15-12					
	LN	14-25-00					
	MN	14-29-24	20	8			Micros at F.
4th	LN	7-12-23		7			
	LN	7-22-00		4			Micros at F.
5th.	eE	23-44-30					
	LE	23-45-06	20				
	ME	23-45-38	20		10		Uniform waves 23h 45m to 23h 53m. Micros at F.
6th.	LN	?5-11-30		3			
	iN	5-19-10					Micros interfere.
7th.	eN	0-42-30					
	LN	0-54-18	15	4			
	LN	1-17-00	30				
	MN	1-22-15	23	27			
	ME	1-21-23	22		11		
	FN	?2-26-00					Apparently more than one quake. Marked oscillations 1h 21m to 1h 23m and again 1h 26m to 1h 39m.
7th		Small record 6h 25m to 6h 29m					
10th	ePN	?4-44-45					
	iSN	?4-49-20					Times doubtful. Time shutter held down.
	eLN	?4-55					
	MN	4-56	15?	14?			
	FN	?5-57					Irregular waves. EW, no record shutter failed to release.
12th.		Very small record 16h 30m to 16h 55m.					
13th		Very small record 6h 04m to 7h 08m, more marked on NS.					
16th		Small record 6h 20m to 6h 26m, more marked on N& S.					
17th.	eN	13-16-17					
	LN	13-43-42		2			
	FN	14-08					
17th.	eN	23h-32					
	LN	23-41					
21st.	O	19-49-06					
	iPN	19-58-08					
	iN	20-00-05	12				
	eSN	20-05-19					
	eSE	20-05-20					
	iSN	20-05-23					
	SRLE	20-09-12					5530
	iN	20-09-28	13	-15			Irregular L waves.
	LE?	20-13					
	MLE	20-16-47	?13		85		
	MLN	20-16-50	15	-57			
	M2N	20-17-55	11	-35			
	M3N	20-20-57	12	-45			
	M2E	20-21-03	15		30		
	LE	20-50-27 to 21-18					

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LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE			Δ	REMARKS
				Δ _N μ	Δ _E μ	Δ _Z μ		
February, (continued)								
22nd.		Small record from	13h 54 to		14h 14m.			
24th	eN?	14-30-43						Irregular waves.
	LN	14-35						
	MN	14-38-18	12?	9?				
	LN	14-38-45 to 15-08						
25th.		Small record	1h 17m 15s to		1h 31m.			
25th.	eN	12-54						
	LN	12-00						
	LN	12-06		2				
	FN	12-23						
26th.	eSN	1-35-37						P masked by micros.
	eSE	1-35-39						L waves striking re- semblance to record of 21st.
	iN	1-39-29	15					
	LN	1-43-05						
	MN	1-47-46	12	57				
	MLE	1-46-57	Irreg.	67?	67?			
	MZE	1-47-15	"		67?			
	LN	2-06-38 to 2-34	to 15 to 12					
	FN	3-16						
26th.	LN	3-25						
	LN	3-30	15	3				
	FN	3-53						
28th.	LN	2-37-38						
	LN	2-49		2				
	FN	3-20						
29th.		Very slight record	16h 42m to		16h 47m.			
29th.	eN	22-50-02						
	LN	23-14	23	2				
	LN	23-43		2				
	FN	0-13						

James Young,
Seismologist.

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EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above ground

Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

PERIODS 12 SECONDS
MAGNIFICATION 150
DAMPING 20-1

INSTRUMENTS—Two Milne-Shaw.

No. and Date	Time	Period	AMPLITUDE		REMARKS
			A	A	
March 6th. 1928	Small quake with L at 3h 15m, ending 3h 22m, on NS component.				
	Wind interferes with record on EW.				
7th.	LN 11-32-00				
	LN 11-35-00	1			
	FN ?11-41				Wind interferes with EW.
7th.	eN 23-32-40				
	LN 23-37-38	3			
	LN 23-41-36				
	FN 0-23				
8th.	Small record 0h 51m to 1h 16m.				
8th.	Slight record on N&S, 19h to 19h 28m.				
9th.	Small record on N&S from 1h 27m to 1h 40m.				
9th.	LN 11-57				
	LN 12-18	2			Wind interferes with F.
9th.	eN ?18-25-07				
	eE 18-25-08				
	iN 18-27-45				
	iN 18-37-57				
	iN 18-43-08	10			
	iN 18-46-03	13			
	LE 19-01-51				
	M1E 19-24-17	23	175		Rapid & prolonged vibrations.
	M1N 19-24-44	25	235		
	M2N 19-26-10	23	182		
	M2E 19-26-23	23	150		
	M3N 19-37-28	17	103		
	LN 19-59-33 to 20-04	20 to 23	38		
	FN 22-58-00				
10th	Slight record 4h 36m to 4h 41 m. on N & S.				
13th.	eN 18-59-38				
	iN 19-01-42	2			
	eN 19-08-52	3			Phase at 19h 01m 42s is emersio on EW component
	LN 19-22-22				
	LE 19-25-20				
	LN 19-29-25 to 19-36	30 to 21	23		Look like L waves of a new quake.
	LE 19-31 to 19-35-38	28	40		
	FN 20-59-00				Uniform waves.
16th.	eEN 5-21-16				
	iE 5-26-52				
	iE 5-28-10				
	eN 5-29-20				
	eE 5-30-39				
	iE 5-38-22				
	LN 5-51-46				
	iLE 5-59-33	32			
	to 6-04	22			
	iLE 6-04-30	17			
	to 6-31				
	MN 6-09-14	15	107		Marked uniform waves on NS from 6h 08m 19s to 6h 15m.
	ME 6-09-20	17	204		
	to 6-10-38				
	FE 12-05				

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March, 1928 (continued); Mean Greenwich, MIDNIGHT TO MIDNIGHT

17th. Slight record 1h 25m 30s to 1h 38m. INSTRUMENTS - Two Miles Shaw.

17th. Slight record from 3h 53m to 4h 36m.

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A _N	A _E	A _Z	
18th.	LE	4-02-15					
	LE	4-05-30					
		to 4-14-23	18	μ	8	μ	
	FN	5-25					
18th.	eN	15-27-23					Reported from NE New York State and felt in Montreal. Not recorded OnEW component.
	FN	15-28					
20th	Slight record 22h 18m 15s to 22h 25m.						
22nd.	O	4-16-34					P large amplitude. Off the SW coast of Mexico. 3500 3520 0 from NS at 4h 16m 32s.
	iPEN	4-23-14					
	PR1E	4-24-12					
	iE	4-24-26	12		36		
	iN	4-24-29					
	iSE	4-28-31	10		80		
	iSN	4-28-32	8	82			
	iN	4-29-00					
	iLE	4-30-30					
	M1E	4-38-20	17		+557		
	M1N	4-38-24		-894			
	M2N	4-38-38	16	+547			
	M2E	4-38-41	17		+557		
	FN	8-58					
26th.	eN	6-06-19					
	LN	6-33					
	LN	6-39		3			
	FN	8-18					
26th.	eN	5-19					Irregular waves. Recorded on EW but masked by NW gale.
	eN	5-20-20					
	LN	5-23					
	FN	5-56		6			
27th.	LN	9-03-27					Resembles last record very much. Wind interferes with EW record.
	F	to 9-13		4			
		9-29					
27th.	eN	20-19-30					
	LN	20-24 to					
		20-34-15					
	MN	20-31-38	17	7			
	FN	21-36					
29th.	eN	5-23					Irregular waves.
	iEN	5-28-44	8	5			
	iE	5-29-42					
	LE	5-39-08			4		
	LN	5-39					
	LN	5-46-37	15	6			
	FN	6-54					
31st.	eN	0-51-11					
	eLN	1-03-30					
	MIN	1-08-21	23	26			
	ME	1-14-06	17		16		
	M2N	1-14-21	18	22			
	FN	2-24					

James Young,

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LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SURFACE, Sand and Clay

Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

PERIOD 12 SECONDS.
MAGNIFICATION, 150
DAMPING 20-1

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
1928. APRIL 1st.	Slight	trace 18h 26m to 18h 31m						on H&S component.
2nd.	eN LN FN	1-54-45 1-55-15 2-23	15	4				
3rd.	eN LN LN ME FN	17-05-05 17-17-30 17-21-18 17-26-27 18-11	20	3	5			
7th.	Slight	trace on H&S from 20h 39m to 21h 27m.						
9th.	O iPN iSE iSN LN iLE ME MN	17-34-18 17-44-03 17-51-50 17-51-52 17-58-32 18-01-15 18-04-19 18-07-11	4					P came in at cut-off Wind interferes with P on EW component
			25		175			
			20	58		6240		F indistinct.
10th.	eE? eN LE ME FE	16-58-18 16-58-38 16-59-08 16-59-33 17-12-24	15		5			
10th. 12th	Slight Small	record 21h 50m 20s to 21h 53m. record 18h 53m to 19h 20m.						
13th.	O iPN iSN ePE eSE LN M1N M2N ME FN	23-16-05 23-22-38 23-27-49 23-22-38 23-27-47 23-31-08 23-40-29 23-48-43 23-35-40 1-24	15 12 15	25 16				P weak. Max not pronounced.
14th.	O iPEN iSEN iSR2N LE LN ME MN	9-00-01 9-11-19 9-20-35 9-28-50 9-31-22 9-31-23 9-42-45 9-43-19	15 15		35			7930 Central Bulgaria F, wind interferes.
15th.	LN FN	22-14-45 22-27		2				Wind interfered with EW component.

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw

APRIL No. and Date.	1928 (continued) PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A _N	A _E	A _Z	
	O	3-24-53					
	iPE	3-31-16		μ	μ	μ	
	iPN	3-31-14					3270
	PRLN	3-32-02					Coast of SW Mexico
	iN	3-36-03					
	iSN	3-36-16					
	iSE	3-36-17					
	iN	3-36-54					
	LE	3-37					
	LN?	3-39-12					
	ME	3-45-39	18		55		
	MN	3-47-34	19	54			
	FN	5-46					
18th	eN	4-02					
	LN	4-03-36					
	MY	4-04-09	13	20			
	FN	4-39					
18th.	O	19-23-00					
	iPN	19-34-13					
	iSN	19-43-25					7830
	iPE	19-34-14					
	eSE	19-43-24					
	iSE	19-43-30					
	LE	19-55-53					
	LN	19-56-00					
	iLN	19-59-45					
	M1N	20-00-17	30	?125+			
	M2N	20-01-32	23	72+			
	M3N	20-12-15	10	24			
	M1E	20-01-10	25		88		
	FN	22-41					
22nd.	iN	5-16-36					
	FN	5-58					Wind interfered with EW
22nd.	eE	20-28-45					
	eE	20-34-12					
	LE	20-49-15					
	ME	20-57-03	15		10		F not identified.
24th.	eN	16-18-15					
	LN	16-22-15		3			
	LN	16-25-00		3			
	FN	17-35-00					
24th.	eN	20-22-38					
	LN	20-59-38					
	LN	21-00-00		3			
	FN	21-38					
24th.	eN	22-05-23					
	LN	22-10-23	15	2			
	LN	22-33	17	3			
	FN	23-37					
25th.	LN	9-57-00					
	LN	10-07-38					
	LN	10-08-23					An earthquake felt at Ramford, Maine at 6:33 Eastern Standard time.
	FN	?10-25					Only a trace on EW component.

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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 R μ	A Z μ	
April, 1928 (continued)							
25th.		Slight trace 16h 36m to 17h 01m.					Wind on EW component.
25th.	iE iN	23-38-15 23-38-15					
26th.		Slight record 19h 59m to 20h 25m.					
27th.		Small record 0h 27m to 0h 59m.					
27th.	O ePN eSN iSN iSE SR2N? iLE LN MIE MZE MN FN	20-34-46 20-44-44 20-52-45 20-52-52 20-52-39 20-59-27 21-02-33 21-03 21-04-10 21-09-06 21-10-00 22-42-					
			6				6600 Violent eq. reported from Peru
			23		50		
			20		40		
			17	28			
							James Young, Seismologist.

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INSTRUMENTS—Two Milne-Shaw.

PERIOD 12 Seconds.
MAGNIFICATION 150
DAMPING 20-1

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		h. m. s.	s.	μ	μ	μ		
MAY 1928.								
1st.		Slight record 0h 35m 23s to 1h 34m.						
1st.		Slight record 9h 55m 45s to 10h 00m on NS component.						
1st.	eN	19-11-13						
	eN	19-15-08						
	iN	19-22-00	15	14				
	FN	20-45						
2nd.		Slight record on NS component, 12h 18m to 12h 32m.						
2nd.	iN	22-15-51						
	eN	22-20-23						
	LN	22-29	26					
	MN	22-35-25	20	19				
	FN	23-48						
8th.	iN	4-57-05						
	iN	5-06-06						
	eN	5-09-38						
	LN	5-31-17		2				
10th		Slight trace 2h 50m to 2h 57m on EV component.						
10th	eN	20-38-44						
	iN	20-48-19						
	LN	20-58 to						
		21-13						
	FN	21-46						
14th.		Slight trace 3h 42m 30s to 3h 57m.						
14th		22-14-17						
	iPN	22-23-28						Northern Peru. 5680 S difficult to interpret on this component. Marked & large vibs. from 22h30m53s to 2h31m37s, period 8 secs. P not recorded on EW
	iPRN	22-25-23						
	iN	22-29-57	12					
	iSN?	22-30-47						
	iLN?	22-38-51						
	MN	22-42-15	15	72				
	eE	22-23-40						
	PRE	22-25-23						
	iSE	22-30-40						
	iE	22-30-46						
	LE	22-36-15						
	ME	22-41-58	17		111			
	LE	1-00-32	21		18			
		to 1-03-52						
	FN	2-33						
15th	O	2-36-10						
	ePN	2-44-55						
	eSN	2-51-51						
	LN	2-57-30						
	MN	3-04-50	17	5				
	FN	4-22						
15th.		Small shock with e at 6h 09m and L at 6h 43m.						
16th	iN	5-32-18						
	LN	5-47						
	LE	6-02-12		1	2			
16th	eN	8-12-23						
	LN	8-22-38						
	LN	8-28		2				



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LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD <small>s.</small>	AMPLITUDE			Δ	REMARKS
				<small>A N</small> μ	<small>A E</small> μ	<small>A Z</small> μ		
MAY 1928, continued.								
17th	eN LN LN	11-18 11-27 11-30-15		1				
17th.	eN? LN	12-15-22 12-18-30		2				
18th	Slight record 2h46m to 4h:2m. A dual earthquake.							
19th.	Slight record from 4h 30m 22s to 5h 08m.							
19th	eN LN	9-56-33 10-24						
21st.	Slight record at 14h 30m. Time marks not working.							
24th	eN eN LN FN	0-47-03 0-51-23 0-58-19 1-32		2				
26th.	Slight record from 14h 14m. to 14h 53m, when paper changed.							
27th	eEN iSE iSN iE iN LN? MIN M2N ME FN	10-03-12 10-13-42 10-13-43 10-14 10-20 10-30-27 10-38-35 10-53-05 10-45-35 13-53		24 15 22	107 50	150		S on EV component, quite large, continued marked oscillations 10h 48m to 10h 54m.
28th	eN LN LE LE FN	7-15-12 7-28 7-41 7-50 8-23		15 15	2 2			
28th	LN LN LN FN	16-19 16-32 16-37 to 16h 39m 17-10		2 2				Wind interferes with EV
31st.	Slight record 8h 14m to 8h 41m.							
31st.	Slight record 21h 54m to 22h 23m, interfered with by wind.							

James Young,
Seismologist.



TORONTO

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

Period 12 seconds.

Magnification, 150

Damping 20-1

REMARKS

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		h. m. s.	s.	μ	μ	μ		
1928 JUNE	eN	0-09-48						
	LN	0-31-45						
1st.	LN	0-47-15		2				Irregular waves at intervals.
	LN	1-00-30	18	2				
	FN	1-32						
1st.	Slight record from 9h 06m to 9h 20m on NS.component.							
1st.	eN?	13-25						
	iE	13-35-52						
	LE	13-48						
	ME	14-06-30	17		16			
3rd.	Slight record from 7h 09m to 7h 17m on NS.component.							
3rd.	eN	9-16						
	LN	9-26-30	20	16			Sinusoidal L from 9h32m to 9h37m23s Period 15, ampl. 5 microns.	
	ME	9-26-30	20		11			
	FN	10-28						
3rd.	Slight record 23h 01m to 23h 15m.							
4th.	eN	2-25-37						
	LN	2-30-37						
	FN	2-45						
6th.	Slight record 17h to 17h 07m.							
6th.	LE	20-04			2			
	FE?	20-23						
8th.	eN	6-15					Local	
	LN	6-17-08	10	2				
	FN	6-20						
9th	eE	2-56-39						
	LE	2-57			2			
	ME	3-00-00			3			
	FE	3-15						
14th	Slight record 14h 04m 23s, paper changed at 14h 09m.							
15th.	eN	6-32-52						
	eE	6-33						
	eN	6-38-27						
	iN	6-43						
	eN	6-49-11						
	LN?	7-04						
	LE	7-09-38	38					
	to 7-42-28		to 15					
	ME	7-26-12	23		22			
	MN	7-26-15	25	26				
	FN	9-18						
15th.	iN	17-36-43						
	LN	18-21-00						
	LN	18-25-43						
	MN	18-26-00	20	11				
	to 18-28-52							
	FN	19-46						
16th.	iN?	18-59-22						
	LE	19-34						
	LE	19-35			2			
	FN	20-01						

TORONTO

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		h. m. s.	s.	μ	μ	μ		
JUNE, 1928, (continued)								
17th.	O	3-19-18						
	iPNE	3-25-50					3400	P & S large.
	iNE	3-27						Off the coast of
	iSE	3-30-58	?8					Mexico.
	iSN?	3-31-00						
	iSR ₁ N	3-32-38						
	iLN?	3-34-18	10					
	MLE	? 3-42-45	?10		-430			Rapid vibrations
	MEE	? 3-43-40	?8		+380			on both components
	MLN	? 3-43-00	?10	-610?				render times and
	MEN	3-43-38	?10	-510				periods of Max.
	FN	8-24						doubtful.
17th	iN	22-32-48						
	LN	22-43-08	12	3				micros at F on
	LN	22-51-30	12	4				NS component.
	FE	23-21						
17th.	iN	23-31-13						
	iN	23-36-32						
	MN	23-48-50	15	12				
	LN	23-55-10	13	8				
	FN	24-23						
18th	eEN	15-52-00						
	eLN	16-01-38						
	FN	16-24						
21st.	LE	4-47						
	LE	4-49			2			
	FE	5-10						
21st.	eE?	10-59-11						
	iEN	11-07						
	eLE	11-31-30	37					F not discerned.
	ME	11-37-15	19		24			
21st.	LE	13-01	19		7			
	to	13-07						
	LN	12-56						
	LN	12-58		3				
	FE	13-55						
21st.	Slight record	from 16h 09m to 16h 22m						on NS component.
21st.	O	16-27-18						
	iPN	16-35-15						
	iPR ₁ N	16-37					4550	
	iSNE	16-41-32						
	iNE	16-41-40	8					
	SR ₁ N	16-44-17						
	LN	16-46-47	13					Irregular periods
	iLN	16-48-45	10					Alaska.
	ME	16-52-00?	8		208			Times of Max.
	LN	16-52-18	8	140				doubtful, rapid vibs.
	LN	16-52-40	12?	-200				
	FN	20-19						

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From the ISC collection scanned by SISMOS

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD <small>s.</small>	AMPLITUDE			Δ	REMARKS
				<small>A N</small>	<small>A E</small>	<small>A Z</small>		
				<small>μ</small>	<small>μ</small>	<small>μ</small>		
JUNE 1928 (continued)								
23rd.		Slight record from 7h 37m to 7h 58m, more marked on NS.comp.						
24th.		Small record from 5h 01m 13s. to 5h 41m, on NS component.						
25th.		Small record from 7h 53m to 8h 17m						
27th.		Slight record from 1h 12m to 1h 25m.						
29th.	eN	23-09-38						
	eN	23-17-11						
	eN	23-25-18						
	LN	23-38						
	LN	23-41	30	75				
	LN	23-52-08	15 to					Looks like a dual earthquake.
		to C-18-40	18					Uniform waves.
	iE	23-18-56						
	iE	23-25-18	15					Sinusoidal L at
	LE	23-41						23h 46m to 23 53,
	LE	C-38-15						period 22, amp. 51
	PE	2-38						microns. Again from
								23h59m to 0h 02m
								Period 15 to 17,
								amplitude 20 microns

James Young,
Seismologist.

TORONTO



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EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

PERIOD 12 Seconds

MAGNIFICATION 150
DAMPING 20-1
REMARKS

NO. AND DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD <small>s.</small>	AMPLITUDE				
				A N <small>μ</small>	A E <small>μ</small>	A Z <small>μ</small>		
1928 JULY 1st	eN LN LN FN	9-35-40 9-42-40 9-48 10-17		2				
6th.	Slight record from	1h. to 1h. 30m.						
7th.	eN LN F	3-46-22 3-53-21 4-38						
7th.	eN LN	?18-29-15 18-59						Only slight trace on EW component.
8th.	eN LN LN FN	12-07-41 12-14 12-18 12-43		1				
9th.	eEN eE iE LE LN MN ME FN	21-43-37 22-03-34 22-03-45 22-11 22-13-28 22-26 22-27 0-27	15 23	11	25			
10th	ePN iPN iSN SE LE MN FN	2-09-00 2-09-05 2-14-15 2-14-15 2-22-30 2-26-45 3-38	15 12	7	5		3420	
10th.	Slight record from	10h. 42m to 11h. 19m.						
11th.	eN LN LN FN	3-27 3-44-22 4-02-00 4-54		2				
13th.	Small record from	10h. 27m to 10h. 47m						
15th.	LN FN	10-17-23 10-29		1				
18th	O ePE? iPN iSN iE SRIN iE LN MN FN	19-04-58 19-13-38 19-13-45 19-20-43 19-20-54 19-24-25 19-26-36 19-28-15 19-31-51 22-57	20 19		119 91		5300	Jesuit Association gives: 6° 5' S 79° 5' W. Northern Peru. S phase on EW component, same time as given for NS.

TORONTO

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
1928 JULY (CONTINUED)								
19th.	Slight record	6h 04m to 6h 10m						better marked on NS component:
20th.	Slight record from	0h 09m to 0h 20m						
21st.	Slight record from	6h 52m to 7h 05m						better shown on NS:
22nd.	eN LN LN FN	7-39-46 7-48 7-50-25 8-27		2				
23rd	eE LE LE FE	8-04-07 8-51 8-54 9-31			2			
23rd.	Slight record from	15h 47m to 16h 03m.						
25th.	eN LN FN	19-03-08 19-07-15 19-28		2				
27th.	Slight trace	16h 43m to 16h 55m						
28th	iN iN LN	20-01-56 20-11-25 20-29						Wind interferes with EW record.
30th	eN eN eLN LN FN	2-47-15 2-56-10 3-02-35 3-06 to 3-08 3-48	23 13	8				

 James Young,
Seismologist.

TORONTO

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 55" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above ground. PERIOD 12 SECONDS and Clay

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

MAGNIFICATION 150
DAMPING 20-1

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
1928 AUGUST								
1st.		Slight record from 1h 07m to 1h 13m.						
2nd.	eN LN FE	6-53-10 7-03-45 7-30						
3rd.	eN eLE LE FE	12-10-33 12-19- 12-28 12-49	21		2			
4th.	O 1PE 1PN 1PR1N 1PR2N 1SN ?SE BN M1N M2N ME LN FN	18-25-57 18-32-34 18-32-36 18-33-30 18-33-52 18-37-54 18-37-58 18-41-30 18-50-37 18-51-15 18-48-40 21-54 22-42	15? 15?	310 302	?	297	3490 P & S large amp.	
5th.		Slight record 15h 11m 22s to 16h 21m.						
12th	eN eN LN LN LE FN	8-31-04 8-47-10 8-55 9-17-40 9-28 10-06			2		A number of quakes reported from Mexican provinces.	
12th.		Slight record from 12h 25m to 12h 31m.						
15th.	eE? eE LE ME FE	15-50-40 15-54-23 15-55 15-56 16-20	25 22		3 4		Sinusoidal to 16h30	
16th.	eN? eN iE iN iE eN iE LE FN	17-28-08 17-34-47 17-34-50 17-34-53 17-35-23 17-38-27 17-38-54 17-46-15 19-00-00	6 12 12		18 17 3			
19th.		Slight record on N & S component, from 3h 10m to 3h 17m.						
20th	eN LN LE FN	18-00-15 18-12-40 to 18-19-52 18-10-15 18-37			2			

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EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 55" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

No. AND DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD <small>s.</small>	AMPLITUDE			Δ	REMARKS
				<small>A N μ</small>	<small>A E μ</small>	<small>A Z μ</small>		
August, 1928 (continued)								
22nd.	LE LN FE	6-54 7-00-45 7-20	17	1				
22nd.	eE eE LE FE	20-27-30 20-29-08 20-29-30 20-51			2			
24th	eE eN eE eE LN LE LE LE	22-08-25 22-12-03 22-12-48 22-19-15 22-36-15 22-39 22-51 0-23	25 23	9		2 9		A dual earthquake
26th 29th	Slight record from Slight record from	4h 50m to 5h 34m 10h 16m 45s to 10h 32m.						
30th	LEN LEN FN	22-20-08 22-21-08 22-46	15	2	1			
SEPTEMBER.								
1st.	eEN LEN ME FN	6-33-37 7-02 7-09-36 9-05	20		9			
1st.	0 ePN eSNE iN LE iLN MN FN	23-53-55 0-00-23 0-05-30 0-12-03 0-12-41 0-16-09 to 0-17-23 0-16-17 1-55	15 15 15		12		3350	P on EW component not recorded.
5th.	LN MN FN	14-58-38 14-58-50 15-10	15	5				Only slightly shown on EW component
6th.	Slight record from	7h 21m to 7h 29m.						
7th.	LN LE LE FE	3-54 3-56 to 4-05-30 4-09-30 4-12-30 4-29	17		2 2			Uniform waves, doubtful as to being seismic.

TORONTO

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
SEPTEMBER	1928	(Continued)						
7th.	LE LE FE	4-53 4-59 5-20	17		1			Uniform waves.
11th.	eE LE LE FE	1-07 1-35 1-37 2-24	25		2			Uniform L waves from 1h 51m to 1h 55m 20s period 15 sec. Amp. 2 microns
11th.	eN LN FN	12-36-00 12-37-10 to 12-37-45 12-43	10	2				
11th.	O iPEN eSE iSEN iSR ₁ N LN? MN ME FN	12-36-35 12-43-25 12-48-50 12-49-00 12-50-40 12-51-33 12-58-11 12-58-19 15-22	13 12	114	117	3800 3620		
12th.	eEN eEN LN FN	1-46-29 1-55-00 1-59-24 3-00		2				
13th.	eEN eE LE LE FN	3-48-10 3-49-00 4-35-00 4-43-45 5-37	23 23		3 3			
14th.	Slight	record 8h 14m	30s	to 8h	42m.			
18th	eN LN LN FN	17-39-30 17-47 17-49 19-14	20	2				Wind interfered with EW record.
18th	LN LN FN	20-52-10 20-59 21-35		2				
19th	iN LEN	3-01-14 3-17-						
21st.	iN LN FN	13-36-40 14-01-20 14-10						
22nd.	Small	record from 6h	43m	to 7h	25m			
22nd.	eE eE iE LE LE MN FE	7-51-03 8-03-48 8-03-52 8-30 8-41 to 9-00 8-33-30 11-02	23 15 19	25	38			Unusually uniform L waves. NS lines superim- posed.

TORONTO

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		E. M. S.	S.	μ	μ	μ		
SEPTEMBER 1928 (continued)								
23rd.	LE	13-58						
	LN	14-01		3				
	FE	14-33						
25th.	eE	8-40--						
	eN	8-46-22						
	eN	8-52-20						
	LE	8-53-26			2			
	FE	9-17						
27th	O	0-44-25						
	iPNE	0-51-12					3710	
	eSNE	0-53-42						
	iSNE	0-56-50						
	LE	0-58-27						
	LN?	1-00-20						
	LN	1-02-20	30	25				
	ME	1-03	26		26			
	FN	2-07						

JAMES YOUNG,
Seismologist.

TORONTO

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

PERIOD 12 Seconds.
Magnification, 150

Damping 20-1
REMARKS

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
		h. m. s.	s.	μ	μ	μ		
1928 OCTOBER								
2nd	LN	19-10-10						
4th	Slight	record	18h 48m to 19h 52m.				Micros in evidence.	
7th	eLE	11-14-38						
	LE	11-15	8-12		2			
	FE	11-26						
8th.	Very	slight record	1h 41m to 1h 47m,				more marked on NS component.	
8th	"	" "	2h 43m 45s to 2h 49m				" " "	
9th.	O	5-00-53						
	iPE	3-07-26						
	iPN	3-07-27						
	iSE	3-12-56						
	iSN	3-12-59						
	LN?	3-15-30						
	MLE	3-23-08	(13?)		+364			
	MN	3-24-56	(13)		+635			
	MZE	3-23-27				+362		
	LN	4-55-49	13					
	LN	6-04	20					
	FE	7-41						
9th.	Small	record	15h 54m to 16h 19m				on NS, wind interfered with EW.	
10th	Slight	record	21h 31m to 21h 46m					
12th	eE	7-51-38						
	LE	8-13-33			2			
12th	LE	9-12-45						
	IE	9-14 to			3			
		9-15-17						
	FN	? 9-32						
12th	LE	23-24-10	22		3			
13th.	Small	record	13h 27m, ending doubtful,				marked micros going	
							marked micros.	
13th	LN	19-02-08			2			
15th	Slight	record	from 2h 20m to 2h 32m.				Micros at F. Wind interfered with EW	
15th.	eN	9-00-26						
	LN	9-22-23	38					
	LE	9-25						
	LN	9-38			2			
	LE	9-50			2			
	FN	10-48						
15th	iEN	14-44-15						
	iEN	14-45-22						
	eE	14-55-40					Papers changed at 15h 01m.	
	MEW	15-20-54	20-18	31	33			
	LE	15-28-28	17		9			
	FN	17-10						
17th.	LE	7-19-42			1			
	FE	7-54						
							Bulgaria reports several shocks on the 15th.	
							Barely noticeable on NS component.	

TORONTO

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
				μ	μ	μ	
1928. OCTOBER (Continued)							
17th	eN LN LE FN	15-43-48 16-14-45 16-09 to 16-28 17-56		2	(13 to (2		
19th.		Slight record from 6h 22m to 6h 34m.					
19th.	iE eE eN LN LN ME FN	10-44-25 10-45-30 10-58-17 11-10-40 11-56 11-34 to 11-35 13-06	15 15		18		May be a dual eq.
19th.	eN LN FN	15-58-43 15-59-45 16-10		2			Only slight record of EW component.
20th.		Small record 13h 26m to 14h 12m					
20th.	"	" 18h	05m 50s to	19h	18m.	No time marks.	
25th.	0 ePEN SEN iE iLE MN FN?	12-32-48 12-39-31 12-44-50 12-45-20 12-50-45 12-52-57 14-25	18 21	74	67	3530	Lines crossing on NS component.
28th		Small record 9h 55m to 10h 08m					
30th	"	" 15h	45m to 0h	25m			
30th	"	" 0h 31m	to 0h 32m.	Very slight.			
30th.	0 iPN PE eSN eSE eE eLN MN FN	4-23-01 4-29-31 4-29-34 4-34-41 4-34-46 4-34-52 4-41 4-46-52 5-38	13	5		3370	
30th	LE LE FE	6-50-15 6-51 7-02	18		3		NS ,slight record.
30th.		Slight record 7h 39m to 7h 44m					
30th	LN LN FN	20-58 21-02 21-17		2			Micros. Wind interfered with EW record.

James Young,
Seismologist.



TORONTO

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LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

PERIOD 12 Seconds
MAGNIFICATION, 150
DAMPING 20-1
REMARKS

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
1928. NOVEMBER 1st.	O iPE iSEW iE LN iLE MN ME F	4-12-57 4-18-29 4-23-08 4-23-15 4-25-19 4-26-45 4-27-17 4-29-30 ?6-50						
			6 8 8	-160	+141		2950	EPN 4h 18m 27s. eN 4h 23m 00s Mexico
1st.	eN eE LN LE LN FN	16-17-27 16-21-52 16-25-00 16-30-15 16-33-15 17-25				18		
			22 15	6				
1st. 3rd.		Very slight marking						20h 10m to 20h 21m.
	eE iE FE	4-06-52 4-07-08 4-07-45						Western part of N. Carolina. Record on NS very slight.
6th.	eN eN LN? LN LE FN	4-35-08 4-41-25 4-55-00 4-57-08 5-07 ?6-38						New Hebrides. No time-marks on EW
			35 25	27				
7th.	eE iE LE F	15-53-47 15-53-55 15-58-00 Micros.				6		Early phases masked, changing papers.
9th 10th.		Slight record from						12h 00m to 12h 20m, micros active. Small quake with L at 13h 29m, ending 14h 19m.
11th	eN eE LE FN	23-22-52 23-25-10 23-04-39 to 23-07 9-52-00						
				3				
15th	eN LN FN	13-47-36 13-55-08 14-24						Wind interferes with EW component.
			15	4				
20th	O iPN iN eE iSW iSE iE LN LE MN LN FN	20-35-21 20-46-05 20-47-10 20-46-15 20-54-45 20-54-47 20-54-50 21-06-45 21-06-52 21-16-03 23-08 23-35						
			8 15 55 25	5		62	55s)	P came in during break in cut-off. Possibly two quakes. The second quake on NS gives P20h47m10s. S20h55 Marked sinusoidal waves at 20h54m50s.
				97	200			

TORONTO

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

LATITUDE, 43° 39' 53" N. LONGITUDE, 79° 23' 46" W. HEIGHT OF PILLAR, 381 feet above sea level. SUBSOIL, Sand and Clay

Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		<small>h. m. s.</small>	<small>s.</small>	<small>μ</small>	<small>μ</small>	<small>μ</small>		
1928								
NOVEMBER (continued)								
22nd.	eNE	9-01-00						
	eNE	9-07-26						
	LNE	9-30-00	22	11	11			
	LN	9-45	15	5				May be a dual quake.
	LE	10-40-25	22		9			
	FN	11-31						
27th	Slight	record from	3h 41m	15s	to 3h	51m.		
27th.	eEN	9-33-03						
	iEN	9-41-33	8	11	11			
	LE	9-43-23	15					
	LN	9-45-30						
	FE	?10-24						
28th	?cFN	1-29-03						
	iN	1-33-42						
	eNE	1-34-51						
	LN	1-41						
	MN	1-47-00	10	6				
	FN	2-31-00						
28th	eM	7-47-15						
	LN	7-51-00		2				F8h 09m
28th.	eN	11-02-25						
	cN	11-28-44						
	LN	12-02-23	22					F merged into next qu
28th.	LE	12-45-08	15		5			
	LE	12-50-08	20					
	FE	13-29						
29th	eN	12-43-26						
	LN	13-04-00	20	2				FE 13h 20m.
29th	LE	14-48-15						
	LE	15-09			1			FN ?15h 15m.
29th.	eN	16-55-12						
	LN	16-48-15						
	LN	16-56-15	15	2				
	FN	17-27						
29th	eE	18-21-15						
	eE	18-56-10						eN 18h27m38s period
	LE	18-58	22					10 seconds.
	LE	19-10	15		5			
	MEEN	19-14	15	12	12			
	FN	21-11						
29th	eEN	23-38-10						
	LN	0-11						
	LN	0-23	17	2				
	FN	1-27						

James Young,

Seismologist.

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

Period 12 seconds

Magnification 150

Damping 20-1

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			REMARKS
				A N	A E	A Z	
1928							
DECEMBER.							
1st.	O	4-06-07					
	iPN	4-18-06	6				
	iSN	4-28-03	15	48			Destructive Chilean eq.
	ePE	4-18-15					May not be true P
	eE	4-18-17	19				
	iSE	4-27-58					
	iE	4-28-08					
	LEN	4-40-					
	MN	4-55-38		+ 375			
	ME	4-58-15	20		+212		
	M2N	4-59-25	17	+ 216			8730? Possibly two quakes
	M3N	5-00	17	+ 216			
	LE	8-58-36					Readings on NS doubtful, no time-marks.
	LE	9-46-06	10				
	FN	10-45					
1st.	LE	10-46-06	10		2		May not be seismic.
1st.	ePE	18-44-50					P weak on this comp.
	iPN	18-44-28					
	eSE	18-54-20					
	LE	19-28-30					
	FE	19-57					
2nd.	LE	5-28-08					No time-marks on NS.
	FE	3-55					
2nd. xxx	O	4-20-27					
	ePE	4-32-22					8660 P weak.
	iSE	4-42-15					
	eE	4-47-20					
	LE	4-54					
	LE	4-59-08	30		44		Came from same place as quake on 1st.
	LE	6-03	15		2		Chili.
	FE	7-56					No time-marks on NS.
3rd.	eE	12-43					
	LE	12-43-55	15		4		Wind at F.
	ME	12-47-56	18		8		
5th	eE	11-18					
	eE	11-21-50	12				F not identified
	?LE	11-26-45					
7th	LE?	10-12					
	LE	10-24			3		Wind interferes
	FE?	12-02					
9th.	iE	1-04-57					
	iE	1-05-52					
	LE	1-12-08					Micros at F
9th.	Small	record 6h 15m to 7h 42m.					
9th.	Small	record from 19h 11m to 20h 24m.					
9th	Small	record 21h 51m 17s to 22h 09m.					
12th	eN?	20-47					
	eN	21-15-08					
	eLE	21-18					
	iLE	21-25 to 21-46					
	MN	21-35	17	12			
	ME	21-41-30	15		18		
	LE	21-48-18					
	FN	23-18-16					

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw.

NO. AND DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD <small>s.</small>	AMPLITUDE			Δ	REMARKS
				<small>A N</small> μ	<small>A E</small> μ	<small>A Z</small> μ		
December 1928 (continued)								
15th	LE	0-18-19						
	LE	0-23	15		2			Only a slight trace on NS
	FE	0-52						
15th.	eN	20-25-15						
	LN	20-25-30	15	5				
	FN	20-47						
15th	Slight record from 23h 42m 05s to 23h 52m 30s.							
17th	eE	4-59-45						
	LE	5-08-15			1			F 5h 27m
17th	eE	6-54-10						
	LE	6-55-15	12		2			
	FE	6-44						
19th	eE?	11-57-16						
	eEN	11-58						Period of Δ on NS
	eE	12-07-00						15 secs.
	SR1EN	12-15	21					
	SR2EN	12-20-08						
	LE	12-52						Mindoro Islands
	LN	12-54-30						
	ME	12-46-58	22		118			
	MN	12-53-20	25	118				
	FN?	15-03						
26th	O	21-52-56						
	iPEN	21-40-40					4650	
	PREN	21-42-50						
	iSEN	21-47-03						S came on time break
	SR1EN	21-50-15						
	LE	21-52-50						
	LN	21-58		3				
	LE	22-04			2			
	FE	22-44						
27th	Slight marking 5h 14m to 5h 54m on NS component only.							
28th.	eN	14-42-25						
	eN	14-47-25						
	eE	14-49-22						
	iN	15-01-20	12					
	eE	14-57-50	15		4			
	LN	15-07	15	2				
	ME	15-50-25	23		12			
	MN	15-43-52	23	15			15h 15m.	Paper changed at
	FN	17-11						

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