OTTAWA

EARTHQUAKE STATION, DOMINION OBSERVATORY

International Seismological Centre

LATITUDE 45° 23′ 38″, LONGITUDE 75° 42′ 57″ or 5h 02m 51s.8 W. Greenwich, ALTITUDE 83m.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From January 1st, 1922 *to* January 17th, 1922 *No.* 1

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1251	Jan 6	P	Lost in micros					
		S_E	14-29-41					
		eL_E	14-36					
		L_E	14-39	40				
		L_E	14-44	20				
		L_E	14-52	15				
		F	15-45					
1252	Jan 9	O	5-09-32					3440
		P	5-16-08					
		S_E	5-21-21					
		eL_E	5-23.5					
		L_E	5-26	19				
		L_E	5-29	15				
		L_E	5-40	11				
		F	6-40					
1253	Jan 17	O	3-50-17					4780
		P_N	3-58-30					
		PR_{2N}?	4-00-32	EW component not working.				
		S_N	4-05-00					
		eL_N	(4-11-40)					
		F	5-00 ca					
		SASKATOON RECORD						
		O	3-50-22					6160
		iP	4-00-02					
		PR_{1N}	4-02-30					
		iS	4-07-47	Sharp well defined record				
		L?	4-16.5	yielding very good value				
		F	4-50	for distance.				

Ernest G. Hodgson

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From January 18th, 1922 *to* January 26th, 1922 *No.* 2

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1254	Jan 19	eL_E	23-03	27				
		L_E	23-17.5	15				
		F	23-32.0					
1255	Jan 22	eS_E?	3-52-22					
		eSR_1E?	3-58-30					
		eL_E	4-15	26				
		L	4-21	19				
		L	4-26	17				EMH
		L_E	4-33	15				
		L_E	4-37	17				
		L_E	4-44	15				
		L_E	4-52	15				
		F	5-10					
1256	Jan 22	e_E	21-12-56					
		e_E	21-19-15					
		L_E	21-36	26				
		L_E	21-42.5	19				
		L_E	21-48	15				
		L_E	21-59	15				
		L_E	22-05	19				
		L_E	22-09	19				
		L_E	22-14	15				
		F	22-30					
1257	Jan 26	e	9-38.5					
		eS_E?	9-41-22					
		eL	9-49.5					
		L	9-51	15				
		L_E	9-53.5					
		F	10-17					

Sinusoidal L waves of small amplitude well defined. Preliminary phases only faintly shown.

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From January 27th, 1922 *to* January 31st, 1922 *No.* 3

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1258	Jan 31	O	13-17-19					3900
		iP	13-24-30					
		iS	13-30-11					
		eL	13-34					
		M_N	13-37-54					
		M_E	13-40-07					
		F	17-05					
	SASKATOON RECORD							
		O	13-17-06					2000
		iP	13-21-18					
		iS_E	13-24-40					
		M	13-28-26					
		F	14-58					
	HALIFAX RECORD							
		O	13-17-19					4900
		P_E	13-25-43					
		S_E	13-32-22					
		SR_{1E}	13-35-47					
		eL	13-38-47					
		M_N	13-41-07					
		F	15oa					

Emma C. Morgan

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International Seismological Centre

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From February 1, 1922. *to* February 28, 1922. *No.* 4.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1259	Feb.16	O	3-14-40					3720
		iP_N	3-21-37					
		iS_E	3-27-08					
		eL	3-33					
		L_N	3-38	(10)				
		L_E	3-38	(13)				
		F	4-35					
1260	" 19	$eS?_E$	22-04-19					
		eL	22-07.5					
		L_E	22-12	15				
		F	22-40					
1261	" 20	e_N	8-31.8					
		eL	8-37.5					
		F	8-50					
1262	" 28	e	21-20-08					
		e	21-24-40					
		eL	21-31.7					
		F	22-10 ca					

Press report received after above readings were made, confirms the O and Δ as follows.- "Quake occurred in Nicaragua at 3-14."

Ernest A. Hodgson

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EARTHQUAKE STATION, DOMINION OBSERVATORY

International Seismological Centre

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From March 1. 1922 *to* March 31. 1922 *No.* 5

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1263	Mar. 4	O	13-09-30					6580
		iP	13-19-34					
		iPN	13-22-07		Irregular L waves of small			
		iS	13-27-41					
		eL	13-37		amplitude and uncertain period.			
		F	14-24					
1264	" 10	eL	11-38				Press report quake	
		M	11-40.3	17	50	50	in California. No	
		F	12-25		P or S waves recorded here, or			
	HALIFAX RECORD					in Halifax.		
		e?	12-01					
		eL	12-11.5					
		F	12-16.5					
1265	" 10	e	17-20-08		Wireless report from Strasburg con-			
		e	17-23-30		firms our diagnosis of the very			
		F	17-40 +		small record here as being seismic.			
1266	" 12	iS?E	17-14-45					
		eSEL?E	17-20					
		eLE	17-28					
		LE	17-30	30				
		LE	17-56	15				
		F	18-25					
1267	" 22	e	22-35-44		Reports from points in			
		F	22-36-28		Missouri indicate small quake			
					at this hour. Recorded on			
	all three components as a very rapid oscillation of small							
					amplitude			
1268	" 28	O	3-57-53					7280
		iP	4-08-36		Exchange of telegrams with			
		iS	4-17-19		Oxford places epicentre in			
		eL	4-30		South America.			
		LE	4-39	19				
		F	5-35					

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From April 1, 1922. *to* April 5, 1922. *No.* 6.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1269	Apr. 2	e?E	(17-05.6)		Time breaks failed for the			
		eS?	(17-15.5)					
		eL	(17-19)		duration of quake. Time			
		F	17-45 ca					
					interpolated			
1270	" 2	O	(19-17-06)					(6370)
		P?EV	19-26-58					
		iSE	19-34-54					
		SR1E	(19-38.8)					
		eLE	19-43					
		LE	19-50	18				
		LE	20-10	15				
		F	21 ca					
1271	" 5	O	10-05-05					12700
		PV	10-20-12					
		PR1V	10-24-36					
		PR2	10-27-32					
		SE	10-32-58					
		SR1N	10-40-30					
		SR2V	10-45-16					
		LE	10-59					
		LE	11-05	18				
		L	11-11 to					
			11-33	18				
		LE	11-48	16				
		F	12-40 ca					

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From April 6, 1922. *to* April 11, 1922. *No.* 7

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1272	Apr. 6	eE	3-31-19		Minute breaks failed.			
		eLE	3-38					
		LE	3-41	34	Time interpolated.			
		L	3-50.5					
		F	4-05 ca					
1273	" 6	eE	8-18.6		Traces only; poorly			
		LE	8-28		defined. Minute breaks			
		LE	8-38					
		F	8-47		failed. Time interpolated.			
1274	" 8	O	20-42-14					4450
		P	20-50-05					
		(PR_2)	20-51-46					
		S	20-56-18					
		SR_1E	20-58-50					
		eL	21-01					
		M_1	21-05	16				
		M_2	21-12.5	10				
		F	22-05					
1275	" 11	eS?E	0-55-38		Sinusoidal L waves of			
		LEV	1-23	17				
		LEV	1-32	15	a distant quake.			
		F	2- ca					
1276	" 11	eLE	16-48		Faint traces only.			
		F	17-16					

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From April 11, 1922 *to* April 25, 1922 *No.* 8

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1277	Apr.13	e_E	15-19-45		Irregular periods of			
		iS?	15-22-00		moderate amplitude. Not			
		i	15-23-10					
		i	15-24-00		possible to distinguish			
		eL	15-24-17					
		F	16-ca		phases.			
1278	" 17	e	7-25.5		Minute traces of distur-			
		F	7-35		bances. Irregular periods.			
1279	" 20	$e?_E$	5-55-44					
		eS?	6-01-15					
		eL?	6-14		Small sinusoidal L wave			
		L	6-15	9				
		L	6-27	,8	traces, mostly on E.			
		F	6-37					
1280	" 25	e?	21-43-50					
		e_E	21-43-56					
		e_F	21-56-00					
		e_D	22-04					
		L	22-24	19				
		L_{EV}	22-31	17				
		L	22-44	19				
		L_{EV}	22-46	17				
		L	23-01	15				
		F	24-00 ca					

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

From April 25, 1922. *to* April 30, 1922. *No.* 9

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1281	Apr.26	eL	2-00-00	28	Barely discernible L waves.			
		F	2-16		of sinusoidal character.			
1282	" 26	e?E	4-17.8		Press report of a quake at			
		eE	4-21.04					
		eE	4-27-08		Tokio on Apr. 26 at 10-15am.			
		eL?E	4-42					
		L	4-47		does not coincide with these			
		L	4-55	17				
		e	5-13-52		times exactly but record seems			
		F	5-50					
					to be of an eastern quake.			
1283	" 28	e	5-50-42		Micros interfere.			
		F	6-00					
1284	" 28	eL	7-37					
		L	7-44	17				
		F	8-15					

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

Milne-Shaw. Horizontal. N-S Comp.

From May 1st, 1922. *to* May 11, 1922. *No.* 10.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1285	May 1	e_E	12-54.4					
		eL_E	13-05.5					
		L	13-12					
		F	Lost in changing the sheets.					
1286	" 3	O	4-00-23					6620
		P	4-10-30					
		S	4-18-39					
		eL_E	4-29-23					
		L	4-32					
		F	5-30 ca					
1287	" 4	O	9-12-59					8680
		P	9-24-55					
		S	9-34-49					
		eL_E	9-45		Small sinsoidal L waves.			
		L	9-50	12				
		L	9-56	21				
		L	10-02	17				
		F	12-00 ca					
1288	" 5	$eL?_E$	0-58.5					
		L	1-06					
		F	1-25 ca					
1289	" 11	i_{LM}	1-08-49					
		L_M	1-26	23				
		L_M	1-49	19				
		F	(2-02)					

The subscripts M refer to the Milne-Shaw, NS Comp.

Ernest A Hodgson

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne-Shaw, Horizontal, N-S Comp.

From May 11, 1922. *to* May, 12, 1922. *No.* 11

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1290	May 11	O	6-45-25					4000
		P	6-52-43					
		PR_2?	6-54-04					
		S	6-58-30					
		SR_2?	7-01-11					
		eL_N	7-05					
		F	8-00 ca					
1291	" 11	$e?_E$	9-48.8					
		$e?_M$	9-51.3					
		eL_M	10-07					
		L	10-15	28				
		L	10-30	17				
		L	10-53	15				
		L	11-28					
		F	11-58					
1292	" 12	$e?_{EVM}$	19-00					
		i_M	19-03-49					
		e_V	19-07					
		e_E	19-12-11		Regular sinusoidal L			
		eL_E	19-17					
		L_E	19-37.5	20	waves. Only a slight			
		L	19-40.5	22				
		L	19-44	19	indication of the other			
		L	19-48	19				
		M_M	19-50	19	phases.			
		L_E	20-00	15				
		L_{EM}	20-11.5	15				
		L_{EM}	20-50	17				
		F	21-20 ca					

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne-Shaw, Horizontal. N-S Component.

From May 12th, 1922. *to* May 31st, 1922. *No.* 12

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1293	May 14	e_M	23-30-09		Bosch instruments were			
		eL_M	23-34		being repaired at this time.			
		F	Lost in micros					
1294	" 22	e_M	17-52.5		Very slight sinusoidal			
		eL	18-00		waves, barely visible on			
		L	19-02	17	horizontal instruments			
		F	19-40		only.			
1295	" 28	e_M	0-44-24		Slight record. The slower			
		i_M	0-51-20		speed of the Milne-Shaw			
		eL	0-56		recording apparatus, alone			
		L	1-04		enabled the waves of small			
		F	1-25		amplitude to show up.			
1296	" 28	eL_{EM}	5-05					
		L	5-18	17				
		L	5-25	17				
		F	5-45					

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne Shaw hor. seismograph N.S. comp. indicated by subscript M.

From June 12th, 1922. *to* June 30th, 1922. *No.* 14

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1303	June 12	e_E	10-49-36		Milne Shaw not recording.			
		i	10-55-37					
		i	11-00-04		Halifax records received			
		eL	11-02		for quakes 1202 and 1203			
		L	11-03 to		but no Δ available from			
			11-10	8	them for either quake.			
		F	12-10					
1304	Jun 16	e_M	11-02.5					
		e_M	11-08.4 to					
			11-13					
		L?	11-55 to	8				
			12-02					
		F	12-10					
1305	Jun 16	eL	12-55 to					
			12-58	6				
1306	Jun 16	e	21-11-07					
		i	21-14-00					
		eL	21-16					
		M	21-17		Irregular period in maximum			
		F	22-20		phase.			
1307	Jun 27	i	14-50-30					
		e	15-00-40					
		eL	15-27.5		Milne Shaw shows an indication			
		L	15-39	23	of LR_1 at 16-37 but it does			
		L	15-49 to		not show very definitely, and			
			16-04	19	if correctly placed does not he			
		F	17 ca		in determination of Δ.			

Ernest A. Hodgson

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne Shaw hor. seismograph N.S. comp. indicated by subscript M.

From June 1st, 1922 *to* June 12th, 1922 *No.* 13

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1297	June 2	i	20-32-24		Well marked as reported but phases do not fit into any certain epicentre determination.			
		eM	20-43-00					
		eM	20-50-32					
		eL?ME	21-07					
		LME	21-20	19				
		L	21-25 to					
			21-39	19				
		LM	21-46	15				
		L	21-53.7	15				
		F	23 ca					
1298	June 3	eM	1-54		No trace on other instruments.			
		F	2-01 ca					
1299	June 3	eLM	5-48		No trace on other instruments.			
		LM	5-55					
		LM	6-00					
		F	6-12 ca					
1300	June 4	eM	21-37		No trace on other instruments.			
		eL	21-40.5	17				
		L	21-49	24				
		F	21-56 ca					
1301	June 8	eE	11-05-48		Milne Shaw not recording.			
		e	11-06-50					
		F	11-18					
1302	Jun 12	O	4-47-27					3750
		P	4-54-26					
		S	4-59-59		Milne Shaw not recording.			
		eL	5-04					
		M	5-06-26		Periods very irregular and difficult to determine.			
		F	6-10					

Ernest E. Hodgson

OTTAWA

EARTHQUAKE STATION, DOMINION OBSERVATORY

International Seismological Centre

LATITUDE 45° 23′ 38″, LONGITUDE 75° 42′ 57″ or 5^h 02^m $51^s.8$ W. Greenwich, ALTITUDE 83m.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne-Shaw Horizontal Seismograph N-S Comp.

From July 5, 1922 *to* July 31, 1922. *No.* 16

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1312	July 10	O	9-38-00					6380
		P	9-47-53					
		S	9-55-50					
		i	9-56-45		Irregular L waves on all			
		e	9-59-20					
		L_E	10-03.5 to			components.		
			10-15					
		F	10-30					
1313	" 13	e_M	5-18-55		May not be seismic. Not re-			
		L_M	5-58					
		L_M	6-04 to		corded on any other seismo-			
			6-15	22				
		L_M	6-16	19	graphs except the Milne-Shaw.			
		L_M	6-21 to					
			6-28	15				
		F	6-59					
1314	" 25	e	10-49-22		Small amplitude waves.			
		e	10-52					
		eL_M	10-57		Barely discernible.			
		L	10-58	15				
		F	11-25					
1315	" 26	O?	6-31-08					1970
		eP	6-35-14					
		eS?	6-38-37					
		eL?	6-40-06					
		F	Lost in micros about 7-00					

Subscripts M. refer to the Milne-Shaw. N-S Comp.

Ernest G. Hodgson

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EARTHQUAKE STATION, DOMINION OBSERVATORY

International Seismological Centre

LATITUDE 45° 23′ 38″, LONGITUDE 75° 42′ 57″ or 5^h 02^m $51^s.8$ W. Greenwich, ALTITUDE 83m.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph. Milne-Shaw Seismograph, N-S Comp.

From July 1, 1922. *to* July 5, 1922. *No.* 15.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1308	July 2	O	13-35-56					5640
		P_{MV}	13-45-05					
		S_M	13-52-22		Halifax record not completely			
		eL_{MN}	14-00-00	30				
		L	14-06	25	legible. Indicates however			
		L	14-13	25				
		L	14-20	16	that the waves reached Halifax			
		L	14-25	16				
		L	14-30	16	before reaching Ottawa.			
		L	14-40	14				
		L	14-50	14				
		L	15-00	12				
		L	15-10	11				
		L	15-20	10				
		F	15-40					
1309	" 2	e_M	21-25-35		Small period oscillations			
		e_M	21-26-06					
		M	21-26-30		indicate short distance but			
		F	21-40		record does not yield a Δ.			
1310	" 4	e_M	13-58-30		No record on vertical. Only			
		e_M	14-01-08		slight indication on Bosch			
		eE_M	14-05-10		seismographs.			
		F	14-25 ca					
1311	" 5	e_M	18-52-18					
	?	e_M	19-00-00					
		eE_{MV}	19-06.5	18				
		L_M	19-15	15				
		L_M	19-21 to	12				
		L_M	19-38					
		LR_1?	21-06					
		F	21-25					

Subscripts M refer to the Milne-Shaw seismograph. N-S Comp

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

Milne Shaw Horizontal Seismograph N. S. Component.

From August 16, 1922 *to* August 31, 1922 *No.* 18

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1321	Aug. 18	eL_M	5-30			Faint record lost for		
		L_M	5-31	16		most part in microseisms.		
		F	Lost in micros					
1322	Aug. 25	e	12-42.5			Very faint recordoof		
		eL	12-48			small amplitude. Slow		
		L_M	13-05 to 13-13	16		speed of M.S. renders it visible. Lost on		
		F	Lost in micros.			faster running Bosch.		
1323	Aug 25	O	19-29-55					9200
		P	19-42-18					
		S	19-52-38					
		L	(20-09)					
		L	20-14	22				
		L	20-19					
		L	20-26 to 20-35	14				
		F	21-10ca.					
1324	Aug. 29	e_M	17-21-19					
		e	17-26-58					
		e_M	17-31-23					
		eL_E	17-56					
		L	18-06	19				
		L	18-17	17				
		F	18-57ca.					
1325	Aug. 30	e_M	22-50-45			Press reports a quake		
		e_M	22-54-38			at Santiago, Chile		
		e	22-57-15			Aug. 30 at 7.52 P.M.		
		eL	22-58			Cannot reconcile this		
		L	23-01	12		record with the reported		
		F	23-40ca.			quake.		

Subscrits M refer to Milne-Shaw N.S. Component.

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EARTHQUAKE STATION, DOMINION OBSERVATORY

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LATITUDE 45° 23′ 38″, LONGITUDE 75° 42′ 57″ or 5h 02m 51s.8 W. Greenwich, ALTITUDE 83m.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne Shaw Horizontal Seismograph N. S. Component.

From August 1, 1922 *to* August 16, 1922 *No.* 17

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1316	Aug. 9	eL_M	17-00		No trace on other components.			
		L_M	17-02 to 17-07					
		F	17-10ca					
1317	Aug. 11	O	(8-19.6)					(8360)
		eP_{VM}	8-31.3					
		iS	8-40-56					
		eL_M	8-54					
		L	8-55	27				
		L	9-00	17				
		F	9-45					
1318	Aug. 11	eM	13-57-45		No trace on vertical.			
		L	14-14	16				
		L	14-19	20				
		L	14-22	16				
		L	14-28	12				
		F	14-52					
1319	Aug. 13	O	0-09-58					8200
		P_M	0-21-30		Difficult to get distance exactly as P appears a few seconds different on all components as also does S.			
		S_M	0-31-00					
		L_M	0-45	40				
		L	0-47	30				
		L	0-52 to 1-05	16				
		F	2-15ca.					
1320	Aug. 16	O	15-56-27					7860
		P_M	16-07-41					
		S_M	16-16-54					
		L_M	16-29	40				
		L	16-36	31				
		L	16-44	20				
		M	16-48					
		F	17-50ca.					

Subscripts M refer to Milne-Shaw N. S. Component.

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne Shaw Horizontal Seismograph N. S. Component.

From Sept. 17, 1922 *to* Sept. 30, 1922. *No.* 21

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1334	Sep. 17	e	8-12					
		eL	8-20	28				
		L	8-23	22				
		L	8-25	18				
		L	8-32	12				
		L	8-36	18				
		L	8-51	18				
		L_M	9-05					
		F	9-10ca.					
1335	Sep. 17	e	10-25.7					
		e	10-27.5					
		e	10-41					
		eL	10-44					
		L	10-56	26				
		L	11-00	20				
		L	11-04	16				
		L	11-08	14				
		F	12-00ca.					
1336	Sep. 29	$eL?_E$	19-29					Irregular, may not be seismic.
		L_E	19-33.5					
		F	19-50ca.					
1337	Sep. 29	$P?_{NMV}$	21-42-00					Irregular waves.
		i_M	21-49-45					Certainly seismic.
		eL_E	21-51	8				
		L	21-52.5					
		F	22-30					
1338	Sep. 30	iM	23-46-51					Irregular sharp wavelets of small amplitude.
		F	23-54					

Subscripts M refer to Milne-Shaw N. S. Component.

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne Shaw Horizontal Seismograph N. S. Component.

From Sept. 11, 1922 *to* Sept. 16, 1922 *No.* 20

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1331	Sep. 12	e	11-54-37					
		eL	12-02					
		L	12-09	19				
		L	12-19	15				
		L	12-26	13				
		F	12-50					
1332	Sep. 14	e_E	19-48.4					
		e	19-53.6			Time signals not working		
		eL_E	20-01			properly. Time uncertain.		
		L_E	20-13.3			Preliminary waves very		
		L_E	20-16	40		small. L waves well		
		L_E	20-21	30		marked.		
		L	20-24.5	24				
		L	20-29	20				
		L	20-32	18				
		L	20-37	16				
		L	20-43	16				
		L	20-51	16				
		L	21-15	18				
		F	21-43ca.					
1333	Sep. 16	$e?_M$	23-15					
		$e?_M$	23-25					
		e	23-28					
		eL_M	23-33					
		L	23-41	24				
		L	23-45	20				
		L	23-55	14				
		F	0-30					

Subscripts M refer to Milne-Shaw N.S. Component.

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne Shaw Horizontal Seismograph N. S. Component.

From Sept. 1, 1922 *to* Sept. 11, 1922. *No.* 19

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1326	Sep. 1	O	19-23-26					8180
		P	19-34-56					
		S	19-44-25					
		eL	19-58.3					
		L	20-05	40				
		L	20-14	26				
		L	20-24	18				
		L	20-34	15				
		L	20-40	13				
		L	20-42	18				
		L	21-00	18				
		L	21-15	16				
		F	22ca.					
1327	Sep. 3	e_M	3-51-39					
		eL	3-54					
		F	4-00					
1328	Sep. 4	i	17-13-00					
		i	17-15-00					
		i	17-20-00					
		i	17-21-40					
		F	17-45					
1329	Sep. 4	L_E	18-53 to 19-10					
1330	Sep. 11	eL_E	(15-48)					
		L	15-54					
		L	15-58	20				
		F	16-15ca.					

Subscripts M refer to Milne-Shaw N. S. Component.

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne-Shaw Horizontal Seismograph N. S. Component.

From October 15th, 1922 *to* October 31st, 1922 *No.* 23

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1344	Oct.16	$e?_E$	16-44.5					
		eL_E	16-52					
		L	16-57	20				
		L	17-01	18				
		F	17-20ca.					
1345	Oct.17	e?	7-32					
		eL	7-37					
		L_E	7-44	28				
		L_E	7-50.5	22				
		L_E	8-01	14				
		F	8-15ca.					
1346	Oct.24	O	21-22-03					8050
		P	21-33-26					
		PR_1	21-36-36					Strasbourg wireless report
		S	21-42-49					O=-21-22-07
		L	21-57					Dist. 8720Km.
		L	22-01	19				"Kamchatka"
		L	22-12	15				
		F	23ca.					
1347	Oct.27	eL_E	15-15					
		L_E	15-21	21				
		L_E	15-26	17				
		F	Lost in heavy micros.					
1348	Oct.30	e_E	2-08-37					
		e_E	2-11-00					Small irregular wavelets.
		F	Micros.					
1349	Oct.30	e_E	3-00-24					Small irregular wavelets.
		F	3-09ca.					

Subscripts M refer to Milne-Shaw N. S. Component.

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne-Shaw Horizontal Seismograph N. S. Component.

From October 1st, 1922 *to* October 15th, 1922 *No.* 22

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1339	Oct. 6	O	5-28-11					5240
		P	5-36-55					
		S	5-43-50					
		eL	5-49					
		L	5-53	9				
		F	Lost in micros.					
1340	Oct. 7	e	16-26-49					
		i_M	16-26-55					
		eL	16-30	7				
		F	Lost in micros.					
1341	Oct. 11	O	14-49-40					6880
		P	15-00-01					
		PR_1?	15-02-44					
		S	15-08-24					
		SR_{1M}?	(15-13-15)					
		SR_2	15-15-20					
		eL	15-19.5	40				
		L	15-22.5	35				
		L	15-26	24				
		L	15-34.5	17				
		F	16-25					
1342	Oct. 14	e?E	23-11					
		eLE	23-17					
		F	23-25ce					
1343	Oct. 15	e	0-07.3					
		e?E	0-12					
		eE	0-16.2					
		eLE	0-31					
		LE	0-35.6	44				
		LE	0-40	31				
		LE	0-44	23				
		LE	0-48	20				
		LE	0-51	18				
		F	1-45					

Subscripts M refer to Milne-Shaw N. S. Component.

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International Seismological Centre

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne-Shaw seismographs 17 and 23, both registering E-W Component.

From November 11 ' 22 *to* November 30 ' 22 *No.* 26

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1354	Nov.11	0	18-09-33					8080
		Pv	18-20-58					
		SE	18-30-22					
		eLE	18-44.5					
		LE	18-49					
		LE	18-53	20				
		L	18-57-16	16				
		L	19-02	16				
		F	19-52					
1355	" 12	i	7-30-22					
		F	7-55					
1356	" 17	0	11-03-15					8020
		Pv	11-14-37					
		SE	11-23-58					
		eLE	11-35					
		L	11-37	20				
		L	11-40	17				
		L	11-50	17				
		L	11-55	15				
		LE	11-59	17				
		LE	12-07	15				
		F	13-00 ca					
1357	" 22	eLE	15-42					
		LE	15-47	18				
		F	15-55 ca					

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International Seismological Centre

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

Milne-Shaw seismographs 17 and 23, both recording E-W Component

From November 9 ' 22 to November 11 ' 22 No. 25

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1353	Nov. 11	O	4-32-37					8230
		iP	4-44-10					
		S	4-53-42			Well recorded on		
		SR_2?E	5-03 ca					
		eL?	5-08.4			vertical.		
		M_1E	5-12.5	25				
		M_1N	5-16	19				
		M_2E	5-22	17				
		M_2N	5-25.5	17				
		M_3NE	5-38	17				
		M_4NE	5-44	17				
		F	9-20 ca					
	HALIFAX RECORD							
		O	4-32-58					8200
		eP	4-44-33					
		PR_2E	4-49-23					
		SE	4-54-00					
		SR_2?E	5-02-28					
		eLE	5-08.5					
		LE	5-19.5					
		LE	5-35					
		LE	5-44.5					
		F	7-48 ca					

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International Seismological Centre

LATITUDE 45° 23′ 38″, LONGITUDE 75° 42′ 57″ or 5^h 02^m $51^s.8$ W. Greenwich, ALTITUDE 83m.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph. Milne-Shaw seismographs, Nos. 17 and 23, both registering E-W

From November 1, 1922. *to* November 9, 1922 *No.* 24

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1350	Nov. 4	e?E	3-32					
		eL	3-40					
		L	3-41.3	10				
		F	3-50					
1351	" 7	O	23-00-23					8060
		P	23-11-47					
		S	23-21-10					
		eL?E	23-31					
		eLN	23-34					
		L	23-37	18				
		L	23-43	20				
		L	23-50	19				
		L	23-53	17				Good record on vertical
		F	1-00 ca					
1352	" 9	eLE	0-09					Faint traces of L waves on vertical.
		LE	0-10	22				
		LE	0-13	18				
		F	0-26					

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph. Milne-Shaw seismographs, Nos. 17 and 23, both recording E-W Comp.

From December 1, '22. *to* December 18, '22 *No.* 27

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1358	Dec. 2	e	4-39-22					
		eL_E	4-43.5					
		F	5 ca.					
1359	" 6	eL_E	14-30					
		L	14-38					
		F	15-00 ca					
1360	" 13	eL	5-29					
		F E	5-35 ca					
1361	" 14	O	23-19-23					8800
		eP	23-31-25					
		eS	23-41-25			M-S record on No. 17 only. E-W comp.		
		eL	23-55	43				
		L	24-10	19		Other instruments not in operation.		
		L	24-20	17				
		L	24-30	15				
		L	24-42	14				
		L	24-58	13				
	" 15	L	1-12					
		F	1-50					
1362	" 17	e_E	1-12-58		Strasburg reports by wireless			
		e_E	1-14-22		O= 0-59-31			
		eL_E	1-29.5		Δ= 9590 (from Strasburg)			
		F	2-00		Record not defined well at Ottawa			
1363	" 18	$e?_E$	12-27-41					
		e_E	12-40-58					
		e	12-45					
		eL	12-47		Irregular faint outcrops of L waves. Small amplitudes after 13 hr.			
		L	12-50	15				
		L	13-05					
		L	13-14					
		F	13-40					

Ernest A. Hodgson

OTTAWA

EARTHQUAKE STATION, DOMINION OBSERVATORY

International Seismological Centre

LATITUDE 45° 23′ 38″, LONGITUDE 75° 42′ 57″ or 5h 02m 51s.8 W. Greenwich, ALTITUDE 83m.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.
Milne-Shaw seismographs Nos. 17 and 23, both registering E.W.

From December 18'23. *to* December 25'23. *No.* 28

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1364	Dec.18	e	21-24-46		Faint traces only on M-S 17.			
		eL	21-32					
		L	21-35					
		F	Lost in micros.					
1365	" 19	e?	18-17			Small traces only.		
		e	18-18.8					
		eLE	18-20					
		LE	18-22.5					
		L	18-29	20				
		F	Lost due to lights being turned off at power station.					
1366	" 23	e	22-50					
		eL	22-54					
		L	23-00 to 23-18					
		F	Lost in micros.					
1367	" 25	eE	4-05					
		eE	4-11					
		eLE	4-37.4					
		LE	4-39	20				
		LE	4-48	16				
		F	5-00 ca					
1368	" 25	e	12-18					
		eL	12-21					
		L	12-28 to 12-39					
		F	12-55					
1369	" 25	eL	14-41					
		F	15-00 ca					

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LATITUDE 45° 23′ 38″, LONGITUDE 75° 42′ 57″ or $5^h\ 02^m\ 51^s.8$ W. Greenwich, ALTITUDE 83m.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, one Spindler and Hoyer 80 kg. vertical seismograph.

Two Milne-Shaw seismographs. Now. 17 and 23, both on E-W Component

~~December 25'23~~ From December 31'23. to ~~No.~~ 29

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE A_E	AMPLITUDE A_N	AMPLITUDE A_Z	DISTANCE
			h. m. s.	s.	μ	μ	μ	km.
1370	Dec.31	e_E	7-31-45					
		e_E	7-35-24		Strasburg reports by wireless			
		S_E	7-42-15					
		$eL?_E$	7-53		O = 7-25-52			
		L_E	8-00	22	Δ = 2850 (from Strasburg)			
		M_E	8-10	18				
		L	8-13					
		F	9-00					

Ernest A. Hodgson