DOM. OBS. No. 67
3,000—6-27

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_0	r	V	ϵ	COMP.	1"tilt	DETERMINED
I	5.2		120	2:1	N.S.	displ't	Jan. 10, 1928
II	6.2		120	10:1	E.W.		Jan. 10, 1928
17	11.9		250	20:1	E.W.	44 mm	Dec. 30, 1927
23	12.0		250	20 1	N.S.	44 mm	Jan. 11, 1928
D	36.8		---	13:10	E.W.		Feb. 15, 1927
D	37.9		---	13:10	N.S.		Feb. 15, 1927
W	5.2		160	4:1	Vertical		Jan. 18, 1927

From January 1, 1928 to January 1, 1928 No. 1

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3028	J	9-25-36					3840	
Jan. 1	iP	9-32-42						
	iS	9-38-20						
	eSR_{IN}?	9-40-10						
	eL	9-45						
	M_{IE}	9-49-48	10	8				
	M_{IN}	9-53-45	10		18			
	M_{2E}	9-56-15	10	10				
	L_N	9-54 to 10-03	12		6			
	L_N	10-03 to 10-08	12		2			
	L_E	10-05	10	5				
	L	10-18 to 10-35	Irr.	1-	1-			
	F	11-12						
3029	e?	18-56						
Jan. 1	i	19-02-52						
	e	19-06-04						
	eL?	19-11						
	L	19-25	15	1	1			
	F	20-00 ca.						

DOM. OBS. No. 68
20,000—6-27

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From January 1, 1928 *to* January 10, 1928 *No.* 2.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3030	e	23-53						
Jan. 3	eL	23-59						
	L_E	0-09	15	1				
	F	0-30						
3031	e	21-54						
Jan. 4	e	22-02.5						
	eL	22-15.5						
	L	22-34	20	4	4			
	L_N	22-39	17		2			
	L_E	22-46	17	1				
	L	23-30	17	1	1			
	F	23-58						
3032	i_N	21-55-53						
Jan. 5	i	22-03-56						
	e	22-07-24						
	F	22-28						
3033	i_E	19-50-22						
Jan. 6	i	19-56-50						
	i_N	19-58-15						
	i_E	19-59-50						
	e	20-05-30						
	iL	20-15-28						
	M_{1N}	20-24-45	24		43			
	M_{1E}	20-28.0	26	41				
	M_{2E}	20-32.0	21	44				
	M_{3E}	20-35.7	19	27				
	M_{2N}	20-36-50	19		20			
	L_N	20-43	17		5			
	L_N	20-58	15	8	5			
	L_N	21-18	17		6			
	L_E	21-31	15	3				
	L_N	21-47	15		1			
	L_E	22-15	15	1				
	F	23-00 ca.						
3034	eL	13-51						
Jan. 9	L_N	13-54.5	Irr.					
	F_N	14-11 ca.						
3035	e_E	2-53.4						
Jan.10	e	3-02.3						
	eL	3-13						
	L_E	3-25	22	8				
	L_E	3-28	17	4				
	L_E	3-30	17		2			
	L_N	3-31	15	1				
	L_E	3-37	15		1			
	F_N	4-14						

DOM. OBS. No. 68
20,000—6-27

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From January 10, 1928 *to* January 29, 1928 *No.* 3

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3036	cL	6-02						
Jan.10	L_E	6-10	20	1				
	F	6-30						
3037	e	17-22						Irregular waves of small amplitude
Jan.10	F	17-49						
3038	i	13-27-56						
Jan.12	eL?	13-37						
	L_N	13-49	20		2			
	L_E	13-51	(20)	1				
	L_E	13-55	17		2			
	L_N	14-00	17	1				
	F	15-21						
3039	e	12-40.2						
Jan.18	eL	12-48						
	L	12-57	20	3	2			
	F	13-13						
3040	eL_N	23-35						
Jan.19	L_E	23-45	20	1				
	L_E	23-55	17	1				
	F	0-21 ca.						
3041	e	4-27.2						Appears to be from nearby epicentre.
Jan.20	M_{IE}	4-29-30	12	5				
	M_{IN}	4-29-49	10		15			
	M_{2N}	4-31-40	10		7			
	M_{2E}	4-31-50	10	5				
	F	4-43 ca.						
3042	i	21-19-00						Micros mask record
Jan.25	eL	21-24						
	F	21-48						
3043	eL	19-37						
Jan.26	L	19-45	20	1	1			
	F	20-12						
3044	i_E	22-32-21						
Jan.26	e_N	22-37.9						
	eL	22-50						
	L_E	23-05	20	2				
	L	23-13	20	2	3			
	L	23-20	17	1	2			
	F	0-05						
3045	eL	0-30						
Jan.29	L	0-39	20	2	2			
	L	0-52	15		1			
	F_N	1-08						

DOM. OBS. No. 68
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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From January 29, 1928 *to* January 31, 1928. *No.*

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3046 Jan.30	e_E?	3-38						
	e_N	3-48						
	e_Z	3-56						
	L_E	4-17						
	L	4-33	20	3				
	L_N	4-37	20	4	4			
	F	4-41	18		3			
		5-30						

W. W. Roscoe

DOM. OBS. No. 67
3,000—6-27

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
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INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
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Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_o	r	V	ϵ	COMP.	1"tilt	DETERMINED
I	5.2		120	2:1	N.S.	displ't	Jan. 10, 1928
II	6.2		120	10:1	E.W.		Jan. 10, 1928
17	11.9		250	20:1	E.W.	44 mm.	Dec. 30, 1927
23	12,0		250	20.1	N.S.	44 mm.	Jan. 11, 1928
D	36.8		---	13:10	E.W.		Feb. 15, 192
D	37.0		---	13:10	N.S.		Feb. 15, 192
W	5.2		160	4:1	Vert.		Jan. 18, 1928

From Feb. 1, 1928 *to* Feb. 4, 1928 *No.* 5.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3047 Feb. 1	eL_E	0-06						On E.W. component only
	F	0-35						
3048 Feb. 1	eL	11-37	12	1-	1-			Better marked on N.S. component.
	F	11-42						
3049 Feb. 2	e	0-28-13						
	e	0-30-52						
	F	0-37						
3050 Feb. 3	e_E	14-15						
	e_N	14-19-21						
	eL	14-20						
	M_{IE}	14-26	20	?				
	M_{IN}	14-28	15		5			
	M_{2N}	14-33	12		3			
	L^{2N}	14-38 to 14-51	12	1-	1-			
	F	15-12						
3051 Feb. 4	eL	7-02						
	L	7-11	24	3	4			
	L	7-21	17	1	1			
	F	7-47						

DOM. OBS. No. 68
20,000—6-27

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From February 4, 1928 *to* February 12, 1928 *No.* 6

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3052	eL	23-42						
Feb. 5	L	23-46	20	6	3			
	L_E	23-52	17	3				
	L_N	23-53	(17)		2			
	L_E	0-05	15	1				
	F	0-20						
3053	e?	4-30.4						
Feb. 6	eL	4-56						
	L_N	5-07	(20)		2			
	L_E	5-12	?					
	F	5-29						
3054	e_N	0-30.7						
Feb. 7	e	0-42.0						
	e	0-47.0						
	e_N	0-49.5						
	e_E	0-56.4						
	eL_E?	1-05						
	eL_N?	1-08						
	M_{1N}	1-18	30		21			
	M_{1E}	1-21	24	11				
	M_{2N}	1-25	22		21			
	M_{2E}	1-27	17	12				
	L	1-30	17	5	7			
	L_E	1-53	15	1				
	F	2-27 ca.						
3055	e	6-22						Irregular waves
Feb. 7	F	6-28						marked by micros.
3056	0	(4-38-26)					(3450)	
Feb.10	eP?	4-45-02						
	iP	4-45-23						
	i	4-46-15						
	iS	4-50-16						
	e	4-51-02						
	eL_E?	4-53-15						
	i	4-54-24						
	eL	4-55-38						
	L	5-18	12	1	1			
	F	6-03						
3057	e?	16-05.7						
Feb.12	eL	16-15						
	L	16-19	20	1	1			
	L_N	16-42	15		1			
	F	16-47						

DOM. OBS. No. 68
20,000—6-27

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From February 12, 1928 *to* February 24, 1928 *No.* 7.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3058	e?	5-59.7						
Feb.13	e	6-03.0						
	e	6-09						
	eL	6-20						
	L	6-28	20	1	2			
	L_N	6-41	20		1			
	F^N	7-08						
3059	eL_E	6-15						Only a trace on N.S. component.
Feb.16	L_E	6-18	20	2				
	F	6-28						
3060	eL	13- 6						
Feb.17	L	13-40	24	4	2			
	L	13-48	20	1	1			
	F	14-10						
3061	e	23-31.7						
Feb.17	eL	23-38						
	L	23-43	20	2	2			
	F	23-58						
3062	e	21-31						Irregular waves of small amplitude.
Feb.19	F	21-40						
3063	0	19-49-09					5550	
Feb.21	iP	19-58-12						
	e	20-00-04						
	iS	20-05-24						
	SR_1	20-09-00						
	eL	20-13						
	M_{IE}	20-17.7	12	56				
	M_{IN}	20-21	12		58			
	M_{2N}	20-29.5	12		22			
	M_{2E}	20-34	15	27				
	L_N	20-38	12		6			
	L_E	20-43	13	5				
	L	20-52 to 21-23	Irr.					
	F	22-06						
3064	eL	13-55						
Feb.22	L	14-04	17	1-	1-			
	F	Lost while changing sheets.						
3065	e	14-30.2						
Feb.24	eL	14-34						
	M_I	14-40	12	11	10			
	L^I	14-54 to 15-05	12	4	3			
	F	15-49						

DOM. OBS. No. 68
20,000—6-27

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From ..... February 24, 1928 ..... *to* ..... February 29, 1928 ..... *No.* 8 .....

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3066	e	1-16						Trace only
Feb.25	F	1-28						
3067	eL_E?	11-49						
Feb.25	eL_N?	11-54						
	L_N	12-00	?		1-			
	L_N	12-05	20	1-				
	L_E	12-13	20	1-				
	F	12-25						
3068	O	1-19-06					5660	
Feb.26	eP	1-28-16						
	iS	1-35-54						
	SR_1	1-39-20						
	eL^1	1-43.5						
	M_{IE}	1-49	12	34				
	M_{IN}	1-52	12		31			
	L^{IN}	2-02	12		6			
	M^N_{2E}	2-03.5	12	14				
	L_N	2-14	12		2			
	L^N_E	2-22	10	1				
	F	3-45						
3069	e_N?	2-39						
Feb.28	eL	2-42						
	L	2-51	20	3	3			
	F	3-19						
3070	eL	9-54						Small sinusoidal L waves.
Feb.28	F	10-33						
3071	eL	16-41						On NS component only.
Feb.29	F	16-46						
3072	e_N?	22-40.1						
Feb.29	e	22-46.0						
	e_N	22-50-50						
	e_E	22-53.0						
	eL?	23-11						
	L_E	23-15	20	3				
	L_N	23-19	17		1-			
	L_E	23-21 to 23-43	17	1				
	L_N	23-33	17		1			
	L^N	23-53	17		1			
	F^N	0-08						

W. W. Doxsee

DOM. OBS. No. 67
3,000—6-27

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

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Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_0	r	V	ϵ	COMP.	1"tilt	DETERMINED
I	5.2		120	2:1	NS	displ't	Jan.10,1928
II	6.2		120	10:1	EW		Jan.10,1928
17	11.9		250	20:1	EW	44 mm.	Dec.30,1927
23	12.0		250	20:1	NS	44 mm.	Jan.11,1928
D	36.8		---	13:10	EW		Feb.15,1927
D	37.0		---	13:10	NS		Feb.15,1927
W	5.2		160	4:1	Vert		Jan.18,1928

From March 1, 1928 *to* March 8, 1928 *No.* 9.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3073 Mar. 6	eL	3-16.5	12	1-	1-			
	F	3-20						
3074 Mar. 7	e?	11-14.4						
	eL	11-25						
	L	11-35	20	1	1			
	F	11-42						
3075 Mar. 7	e?	23-14						
	e_E	23-20.3						
	e_N	23-24						
	e_L	23-31						
	L_E	23-34	24	2				
	L	23-37	20	3	2			
	L	23-39	17	2	2			
	L	23-47	15	2	1			
	F	0-30						
3076 Mar. 8	e	5-51.3						
	L_E	5-54	10	1-				
	L_N	5-56	10		1-			
	F	6-10						

DOM. OBS. No. 68
20,000—6-27

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 8, 1928 *to* March 10, 1928. *No.* 10.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3077	e_E?	18-53						
Mar. 8	e_E	18-56						
	L	19-11	17	1-		1-		
	F	19-24						
3078	eL_E	1-21						
Mar. 9	L_E	1-26	17	1-		1-		
	L	1-34	15	1-		1-		
	F	1-38						
3079	eL_E	11-51						
Mar. 9	eL_N	11-55						
	L	12-01	24	1		1		
	L	12-04	20	1		1		
	L_E	12-19	17	1-				
	F	12-30						
3080	e	18-25-10						
Mar. 9	i	18-27-31						
	i	18-37-38						
	i_N	18-39-32						
	i	18-45-46						
	eL?	19-00.4						
	eL_E	19-08						
	M_{IE}	19-14	26	123				
	M_{IN}	19-18	26			127		
	M_{2E}	19-23	22	104				
	M_{2N}	19-29	24			242		
	M_{3E}	19-30.5	20	151				
	M_{4E}	19-34	20	88				
	M_{3N}	19-35	19			79		
	M_{4N}	19-44	17			59		
	M_{5N}	19-49	15			22		
	M_{5E}	19-50.7	17	35				
	L_N	20-00 to 20-21	17			15		
	L_E	20-13 to 20-33	15	11				
	L_N	20-22 to 20-56	17			3		
	L_E	20-35 to 20-59	15	4				
	L	21-03 to 21-38	15	1		1		
	F	22-53						
3081	eL	4-36						Small sinusoidal L Waves.
Mar.10	F	4-49						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 10, 1928 *to* March 17, 1928 *No.* 11.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3082 Mar.13	i	18-52-06						
	e	18-58.0						
	e?	19-01-45						
	i	19-08-40						
	eL	19-22						
	L_E	19-35	20	4				
	L_N	19-36	17		2			
	L_E	20-03	15	1				
	F	20-33	20	1	1-			May be L waves of another quake.
		21-05						
3083 Mar.16	e_E?	5-16-28						
	e_E	5-20-12						
	i_E	5-21-32						
	e_N	5-22.0						
	i_E	5-26-58						
	i_E	5-27-30						
	e	5-31-27						
	i_E	5-38-56						
	i_E	5-46-30						
	eL_N	5-52						
	eL_E	5-59						
	M_{1N}	6-02.8	24		160			
	M_{1E}	6-03.5	24	227				
	M_{2N}	6-05	19		133			
	M_{3N}	6-09.3	19		170			
	M_{2E}	6-10.5	17	249				
	M_{3E}	6-16.3	15	150				
	M_{4N}	6-17	19		65			
	M_{5N}	6-22.5	17		66			
	M_{4E}	6-28.2	17	81				
	M_{5E}	6-34.5	17	57				
	M_{6N}	6-36.3	17		43			
	M_{6E}	6-43	15	41				
	M_{7E}	7-14.5	19	66				
	M_{7N}	7-19	19		43			
	M_{8E}	7-20	19	63				
	M_{8N}	7-22.5	17		29			
	M_{9E}	7-25	17	43				
	L	7-46 to 8-20	17	2	2			
	L	8-20 to 9-45	17	1	1			
	LR?	11-37	20	1	1-			
	F	12-04						
3084 Mar.17	L	1-31	17	1-	1-			
	F	1-40						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 17, 1928 *to* March 20, 1928 *No.* 12.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3085	eL_N	3-53						
Mar. 17	eL_E	3-58						
	L_E	4-05	20	2				
	L_N	4-07	20		1			
	F	4-32						
3086	eL	15-27						
Mar. 17	L	15-39	20	1	1			
	L_E	15-47	17	1				
	F	16-00						
3087	e_E	3-28.1						
Mar. 18	e_E	3-32.6						
	e_E	3-40						
	eL_N	3-54						
	eL_E	4-00						
	M_1	4-10	19	11	4			
	M_{2E}	4-15	17	4				
	L_N	4-16	17		1			
	L_{NE}	4-23	15		1-			
	F	4-25	15	2				
		5-22						
3088	e_E?	12-31						
Mar. 18	eL_N	12-52						
	eL_E	12-59						
	M_1	13-07	19	5	3			
	L_E	13-11	17	4				
	L_N	13-15	17		2			
	L_{NE}	13-18	17	2				
	L_E	13-29	15	1-				
	F	14-25						
3089	e	15-26-03						Felt at Montreal and Northeastern New York State.
Mar. 18	F	15-26-45						
3090	eL_N	21-56						
Mar. 18	L_N	22-02	20		1			
	F	22-10						
3091	eL	22-19						
Mar. 20	L	22-22	20	1-	1-			
	F	22-30						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 20., 1928 *to* March 26., 1928 *No.* 13.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3092	O	4-16-57					3590	
Mar.	iP	4-23-44						
22	iPR_{IN}	4-24-08						
	i	4-24-30						
	iS	4-29-07						
	iSR_I	4-30-03						
	iL	4-31-24						
	eM_{ez}	4-34						
	M_{IN}	4-37.6	24		520			
	M_{IE}	4-38.0	20	890				
	M_{2NIZ}	4-40.0	19		684			
	M_{2E}	4-40.6	19	793				
	M_{3N}	4-40.7	17		652			
	M_{4N}	4-43.5	17		520			
	M_{3E}	4-44.0	17	574				
	M_{5N}	4-45.8	15		314			
	M_{4E}	4-47.7	15	223				
	M_{6N}	4-49.4	13		259			
	M_{7N}	5-00.0	17		145			
	M_{5E}	5-00.5	15	116				
	M_{6E}	5-06.0	15	71				
	M_{8N}	5-08.6	13		46			
	M_{7E}	5-11.0	15	46				
	M_{9N}	5-19.0	15		33			
	M_{8E}	5-26.0	15	28				
	M_{9E}	5-35	15	21				
	M_{10N}	5-38	15		14			
	L	5-36 to 6-02	Irr.					
	L	6-08 to 6-30	Irr.					
	L_E	6-30 to 8-07						
	F	8-41						
3093	e_E?	20-32						
Mar.	e	20-39.8						
23	eL	20-57						
	L_N	21-11	20		1			
	L_E	21-13	17	2				
	L_N	21-15	17		1			
	L_E	21-19	17	1				
	F	21-55						
3094	e_N?	5-57						
Mar.	e_E	6-05						
26	eL?	6-18						
	L	6-35	24	3	2			
	L_E	6-44	20	2				
	L_N	6-51	20		2			
	L	7-52	20	2	1			May be another quake.
	F	8-21						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 26, 1928 *to* March 31, 1928 *No.* 14.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3095	e?	8-38						
Mar.	eL	9-13						
26	L_E	9-18	24	1	1			
	F	9-42						
3096	eL	5-21						
Mar.	L	5-24 to						
27		5-40	Irr.					
	F	6-00 ca.						
3097	eL	8-58						
Mar.	M_{1N}	9-06	17		4			
27	M_{1E}	9-07	17	6				
	L_E	9-11	15	2				
	F	9-30						
3098	e	19-48						
Mar.	eL	20-14						
27	L_N	20-25	20		2			
	L_E	20-27	20	4				
	M_{1E}	20-31	17	5				
	L_N	20-33	17		1			
	L_E	20-36	15	1				
	F	21-40						
3099	e	5-23-00						
Mar.	i	5-28-48						
29	i	5-29-38						
	e	5-31.1						
	i_N	5-33-46						
	eL?	5-39						
	eL_E?	5-47						
	L_E	5-56	15	2	2			
	L_N	6-10	(13)		1			
	F	7-01						
3100	i	0-50-34						
Mar.	eL	1-00						
31	M_1	1-06.5	22	12	17			
	M_2	1-12.6	15	10	8			
	L_E	1-17	15	4				
	L_N	1-22	12		2			
	F	2-21						

W. W. Doxsee

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From..... ..... *to*..... *No*.....

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
			Halifax Record					
3092 Mar. 22	0	4-17-00					4210	
	iP	4-24-33						
	iPR_2	4-26-09						
	iS	4-30-32						
	SR_2	4-33-33						
	eL_E	4-35-41						
	eL_N	4-36-21						
	M_{1N}	4-40.7						
	M_{1E}	4-42.2						
	M_{2N}	4-44.4						
	M_{2E}	4-45.2						
	M_{3N}	4-48.2						
	M_{3E}	4-50.2						
	M_{4N}	4-51.7						
	M_{5N}	4-58.7						
	M_{6N}	5-02						
	M_{7N}	5-05						
	M_{8N}	5-09.7						
	L_E	4-56 to 5-24						
	L_N	5-11 to 5-20						
	F	6-00						
			Saskatoon Record					
3092 Mar. 22	0	4-16-44					4020	All readings are from the EW component.
	eP	4-24-04						
	iS	4-29-52						
	eL	4-32-40						
	M_1	4-38						
	M_2	4-40.2						
	M_3	4-41.3						
	M_4	4-42.6						
	M_5	4-43.7						
	M_6	4-44.6						
	L	4-55						
	F	5-30						

W.W.D.

DOM. OBS. No. 67
3,000—6-27

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_o	r	V	ϵ	COMP.	1" tilt	DETERMINED
I	5.2		120	2:1	NS	displ't	Jan. 10, 1928
II	6.2		120	10:1	EW		Jan. 10, 1928
17	11.9		250	20:1	EW	44mm.	Dec. 30, 1927
23	12.6		250	20:1	NS	44mm.	Jan. 11, 1928
D	36.8		---	13:10	EW		Feb. 15, 1927
D	37.0		---	13:10	NS		Feb. 15, 1927
W	5.2		160	4:1	Vert.		Jan. 18, 1928

From April 1, 1928 *to* April 7, 1928 *No.* 15.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3101 Apr.2	eL	18-27.3						Local?
	F	18-31						
3102 Apr.3	eL	1-56						Local?
	L_N	1-58	9		1			
	L_E	2-00	9	2				
	F	2-19						
3103 Apr.3	e	17-04-49						
	eL_N	17-16						
	eL_E	17-19						
	M_1	17-23	17	7	e			
	L_N	17-28	17		1			
	L_E	17-31	17	1				
	L_E	17-45	15	1-				
	F	18-12						
3104 Apr.7	e	20-39						
	e_N	20-45.4						
	eL_E?	20-54						
	L	21-09	20	2	2			
	F	21-33						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From April 7, 1928 *to* April 13, 1928 *No.* 16.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h. m. s	s	μ	μ	μ	km.	
3105 Apr. 9	0	17-34-14					6450	
	eP	17-44-11						
	iS_E	17-52-11						
	iE	17-53-58						
	i_E	17-54-50						
	eSR_{IN}?	17-56.8						
	i_E	17-58-45						
	eL_E	17-59.4						
	eL_N	18-01						
	M_{IE}	18-02	(24)	(66)				
	M_{2E}	18-06.5	24	56				
	M_{IN}	18-07.5	24		73			
	M_{2N}	18-10	24		66			
	M_{3E}	18-17.5	19	26				
	M_{3N}	18-18.6	17		17			
	L_E	18-31	17	3				
	L_N	18-40	15		2			
	L_N	18-50	15	2				
	F	21-07 ca.						
3106 Apr. 10	e	6-23						
	L	6-32	(12)	1-	1-			
	F	6-57						
3107 Apr. 10	e_N	16-58.2						
	eL	16-59.5						Local?
	M_{IN}	17-01-18	12		7			
	L	17-03	10	2	2			
	F	17-23						
3108 Apr. 10	eL	21-52	15	1-	1			
	F	21-56						
3109 Apr. 12	eL	3-47						
	F	3-52						Trace only.
3110 Apr. 12	e	18-29-49						
	eL	18-38						
	L	18-52	17	1-	1			
	F	19-21						
3111 Apr. 13	0	23-15-54						
	iP	23-22-58					3810	
	iS	23-28-34						
	eL	(23-33)						
	M_{IN}	23-43	12		14			
	L_E	23-45	12	8				
	M_{2N}	23-50	12		12			
	L_E	23-57	12	2				
	L_N	0-07	10		1			
	L_E	0-20	10	1-				
	F	1-33 ca.						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From April 13, 1928. *to* April 18, 1928 *No.* 17.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3112	0	8-59-56					7680	
Apr.	iP	9-11-00						
14	iS	9-20-04						
	iSR_{2N}	9-28-00						
	eL	9-30						
	M_1	9-41.4	15	46	31			
	M_2	9-43.4	15	22	25			
	L_N	9-46	13					
	M_{3E}	9-53	13	8				
	L_E	10-02	13	2				
	L	10-23	13	1	1			
	LR_{1E}	11-15	15	1				
	F	12-18 ca.						
3113	e_N	22-12.0						
Apr.	eL	22-15						
15	L_N	22-17	10		1-			
	L_E	22-19	10	1-				
	F	22-28						
3114	eL	9-21						
Apr.	L_N	9-26	24		1			
16	L_E	9-28	20	1-				
	F	9-47						
3115	0	3-25-16					3380	
Apr.	iP	3-31-47						
17	i	3-32-16						
	iPR_1	3-32-34						
	e	3-33-00						
	i	3-33-36						
	iS	3-36-56						
	i	3-37-42						
	eL	3-39.5						
	M_{IE}	3-47	15	36				
	M_{IN}	3-49	15		39			
	M_{2E}	3-50	15	30				
	L_N	4-09	13		2			
	L_E	4-14	13	2				
	L_N	4-39	12		1-			
	L_E	4-41	12	1-				
	F	6-00 ca.						
3116	e_E?	3-59.5						
Apr.	eL	4-04						
18	M_I	4-06	10	7	21			
	M_{2E}	4-08	10	12				
	L_N	4-09	8		2			
	L_E	4-10	8	3				
	F	4-36						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From April 18, 1928 *to* April 24, 1928 *No.* 18.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3117	0	19-22-50					7620	
Apr.	iP	19-33-51						
18	i	19-38-04						
	iS	19-42-52						
	eN	19-47.7						
	i	19-50-30						
	eL	19-53						
	M_{1N}	20-00	24		51			
	M_{2N}	20-03	15		23			
	M_{1E}	20-06	19	60				
	M_{3N}	20-09	13		21			
	M_{2E}	20-10.6	13	16				
	L_N	20-15 to 20-47	13		7			
	M_{3E}	20-24.8	13	12				
	L_{3E}	20-47 to 21-10	13	1	1			
	F	23-07 ca.						
3118	i	5-16-38						
Apr.	F	5-55						
22								
3119	e?	20-25.2						
Apr.	iS?	20-34-11						
22	eL	20-46						
	M_1	20-49	26	6	12			
	L_N	20-56	17		1			
	L_E	21-00	15	2				
	L_N	21-08	15		1			
	F^N	21-50						
3120	e	16-03						
Apr.	eL	16-13						
24	L	16-18	20	2	1			
	L_N	16-22	20		3			
	L_E	16-34	15	2				
	F	17-30						
3121	e	20-29						
Apr.	eL_N?	20-45						
24	L^N	20-56	20	1	2			
	F	21-38						
3122	e	21-51						
Apr.	eL	22-01						
24	L_E	22-07	17	1				
	L_N	22-10	17		2			
	L	22-29 to 22-56	15	1	1			
	F	23-31						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From April 24, 1928 *to* April 30, 1928 *No.* 19

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3123	eL	9-56						
Apr.	L	10-07	17	1	1-			
25	F	10-17						
3124	eL	16-29						
Apr.	L	16-36	17	1-	1			
25	F	16-55						
3125	e	19-57						Irregular waves of small amplitude
Apr.	F	20-21						
26								
3126	e	0-19.7						
Apr.	eL_E?	0-27						Irregular waves of small amplitude
27	eL_N?	0-30						
	F^N	0-57						
3127	0	20-34-51					6540	
Apr.	eP_N	20-44-53						
27	i_N	20-47-09						
	PR_2	20-48-26						
	iS^2_E	20-52-58						
	SR_{2E}	20-59.3						
	eL^{2E}	21-03						
	M_1	21-11	15	10	22			
	M_{2N}	21-19	15		11			
	L_E	21-28	15	2				
	L^E_N	21-30	15		2			
	F^N	22-50						

W W Cooke

DOM. OBS. No. 68
14,000—7-26

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From ..... *to* ..... *No.*.....

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
			STN.	AGIE	BULLETIN			
2779	0	6-23-41					8620	
Apr.14	iP	6-35-34						
	iS	6-45-25						
	eL	6-58.7						
	F	9-00 ca.						
2781	0	8-15-34					6820	
Apr.16	eP	8-25-52						
	iS	8-34-12						
	eL	8-44.7						
	L_1	8-54.6						
	L_1^2	9-00						
	L^2	9-12 to 9-45						
	L	10-28						
	F	11-00						
								W. W. D.

DOM. OBS. No. 68
14,000—7-26

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From .... *to* .... *No.* .....

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
				HALIFAX BULLETIN				
2779	0	6-23-41					8400	
Apr.14	iP	6-35-23						
	iS	6-45-03						
	iL	6-48-14						
	eL	6-48-57						
	P	6-57						
		8-00 ca.						
								W. V.D.

DOM. OBS. No. 67

3000—9-26

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*

ERNEST A. HODGSON, *Seismologist*

W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation :boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_0	r	V	ϵ	COMP.	1" tilt	DETERMINED
	5.2		120	2:1	NS	displ't	Jan. 10, 1928
I	6.2		120	10:1	EW		Jan. 10, 1928
II	11.9		250	20:1	EW	44 mm.	Dec. 30, 1927
17	12.0		250	20:1	NS	44 mm.	Jan. 11, 1928
23	36.8		---	13:10	EW		Feb. 15, 1927
D	37.0		---	13:10	NS		Feb. 15, 1927
D	5.2		160	4:1	Vert.		Jan. 18, 1928
W							

From May 1, 1928 *to* May 1, 1928 *No.* 20.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3128	e?	0-23.6						
May 1	e	0-33-40						
	eL?	0-43						
	L	1-00	20	1	2			
	L_N	1-09	15		1-			
	F	1-40						
3129	e	9-57						Local?
May 1	F	10-04						
3130	0	(19-04-37)					(2900)	
May 1	eP_N?	19-10-24						
	PR_2?	19-11-04						
	eS^2	19-15-00						
	eL	19-18						
	M_{IE}	19-24.5	12	9				
	M_{IN}	19-27.3	12		9			
	L_N	19-39	10		2			
	L_E	19-48	10	1				
	F	20-39						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 1, 1928 *to* May 14, 1928 *No.* 21.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3131	eL_E	12-17						
May 2	L	12-22	17	1	1-			
	F	12-35						
3132	eL	13-57						Sinusoidal L waves of small amplitude.
May 2	F	14-10						
3133	eL	15-47						Same type as 3132.
May 2	F	15-56						
3134	i	22-15-15						
May 2	e_E	22-20-19						
	eL	22-25						
	L_N	22-33	20		5			
	L_E	22-35	20	4				
	L_N	22-39	17		2			
	L	22-45	15	1	1			
	F	23-38						
3135	i_N	4-57-03						
May 8	i	5-06-03						
	e	5-09-30						
	L	5-32	20	1	1-			
	L_E	5-40	15	1-				
	F_E	6-12						
3136	e_E	2-49						
May 10	L_E	2-53	20	2	1-			
	L	2-57	15	1-	1-			
	F	3-05						
3137	e?	20-40.8						
May 12	e	20-48.0						
	eL?	20-56						
	L_E	21-04 to 21-18	17	1				
	L_N	21-07 to 21-20	17		1			
	F	21-45						
3138	eL_N	3-40						
May 14	L_E	3-47						
	L_E	3-52	20	1				
	L_E	4-08	15	1-				
	F	4-17						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 14, 1928 *to* May 15, 1928 *No.* 22.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3139 May 14	0	22-14-33					5680	
	iP_N	22-23-44						
	PR_{2N}	22-26-30						
	iS	22-31-03						
	iE	22-34-02						
	i	22-35-10						
	iL_E?	22-37-30						
	eL_N	22-40						
	M_{IE}	22-43.2	18	117				
	M_{IN}	22-45	18		137			
~	$M"_N$	22-47.8	15		51			
	L_E	22-53	15	23				
	M_{3N}	22-55.4	15		53			
	M_{4N}	23-12.5	15		28			
	L_N	23-23	15		7			
	L_E	23-25	15	12				
	L_E	D-05	15	8				
	L_E	0-16	15	9				
	L_N	0-22	15		5			
	L_E	0-40	15	6				
	LR_{IN}?	0-51						
	L	1-06	20	9	8			
	L_N	1-23	17		3			
	L_E	1-28	15	2				
	F	2-45+						
3140 May 15	0	2-36-14					5480	
	iP_N	2-45-13						
	PR_{IN}	2-47-12						
	iS	2-52-21						
	i_E	2-55-00						
	ie_E	2-56-15						
	eL	2-59						
	L	3-11	17	3	4			
	L_N	3-24	15		2			
	L	3-41	15	1-	1			
	F	5-03						
3141 May 15	e	6-09.0						
	e_N	6-27.3						
	eL	6-38						
	L_N	6-42	20		1			
	L_E	6-47	20	1				
	L_N	6-50			1-			
	F	7-25						
3142 May 15	e_N?	8-18.8						
	e_E	8-21						
	eL	8-24						
	F	8-35						

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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 15, 1928 *to* May 19, 1928. *No.* 23.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3143	e	5-23.8						
May	eS	5-32-24						
16	eL	5-43						
	L	5-55	15	2	1			
	F	7-00 ca.						
3144	0	7-56-39					5600	
May	eP_N	8-05-45						
16	eS	8-13-00						
	e_N	8-17.0						
	eL_E	8-19.5						
	L_E	8-30	17	1				
	L_N	8-32	17		1			
	F	9-10						
3145	e_E	10-37.7						
May	eL	10-48						
16	L_N	10-58	17		1-			
	F	11-10						
3146	e	11-17						
May	eL	11-24						
17	L	11-28	20	1	2			
	L	11-31	17	1-	1			
	L	12-04	20	1-	1			May be another quake.
	F	12-36						
3147	e_N	12-16-27						Local
May	M_{IN}	12-16-38						
17	F	12-16-51						
3148	eL	23-40						
May	L	23-47	20	1	1			
17	F	0-04						
3149	e	2-33						
May	eL	2-44						
18	L	2-48	20	2	1			
	L	2-55	17	1-	1-			
	L	3-46	20	1-	1-			May be another quake.
	L	3-53	17	1-	1-			
	F	4-20						
3150	e_E?	4-14						
May	eL	4-30						
19	L	4-41	20	1-	1-			
	L	4-54	15	1-	1-			
	F	5-21						

DOM. OBS. No. 68
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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From ..... May 19, 1928 ..... *to* ..... May 26, 1928. ..... *No.* 24.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3151	e	9-55.8						
May	eL?	10-16						
19	L_E	10-22	24	1				
	L_N	10-29	20		2			
	L_Z	10-31	20	3				
	L	10-36	15		1			
	F	11-13						
3152	e	16-52.7						
May	eL?	17-09						
20	L_E	17-19	20		1			
	F	17-37						
3153	e	2-32						
May	L	2-37	20	?	3			
21	F	2-53						
3154	e	17-13-50						
May	eL?	17-28						
21	L	17-32	20	1-	1-			
	F	17-44						
3155	eL	14-22						
May	L	14-26	24	1	2			
22	L_E	14-32	20	1-				
	F	14-49						
3156	e_E	5-45-48						
May	e_N	5-47-26						
24	eS?	5-51-55						
	e	5-55.0						
	eL	5-57						
	M_{ED}	6-00-25	19	13				
	L_E	6-01	13		2			
	L	6-05	13	1	1-			
	F	6-43						
3157	e_E	8-39-45						
May	i	8-43-42						
26	i_E	8-49-24						
	eL_E?	9-01						
	L_E	9-07	15		1-			
	F	9-20						
3158	i_E	14-12-20						
May	e_E	14-19-40						
26	e_N	14-23.6						
	eL_E	14-26						
	L_E	14-38	15		1-			
	F	15-17						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From ....ay..26., 1928 to ....ay..28., 1928 No. 25.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3159	eL	15-44	20	1-	1-			
May	F	15-55						
26								
3160	eL	6-54						
May	LE	6-58	20	1-				
27	LE	7-03	20		1-			
	F	7-07						
3161	0	9-50-33					9530	
May	i	10-03-15						
27	eR1	10-06-58						
	iS	10-13-54						
	eSR1	10-19-56						
	iE	10-26-36						
	eL	(10-30)						
	MIE	10-42.0	24	127				
	MII	10-42.5	22		62			
	M2E	10-46.7	20	58				
	M2I	10-48.2	20		63			
	M3E	10-50.8	17	76				
	M3I	10-53.0	15		49			
	LN	10-58 to 11-23	15		8			
	M4E	11-01.5	17	18				
	LE	11-04 to 11-28	17	9				
	LE	11-23 to 11-57	15		3			
	LE	11-28 to 12-04	15	5				
	L	12-04 to 12-52	15	1	1			
	F	14-05						
3162	eE	7-15-48						
May	eLN	7-28						
28	LE	7-33	15		1			
	LE	7-38	20	2				
	LE	7-44	15	1				
	LE	7-48	15		1			
	LE	7-50	15	1				
	F	8-28						
3163	e	15-59-12						
May	eL	16-17						
28	LE	16-27	20	3				
	L	16-32	17	3	2			
	LN	16-54	15		1-			
	F	17-16						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 28, 1923 *to* May 31, 1923 *No.* 26.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3164	eL	8-11						
May	L_E	8-18	20	1				
31	L_N	8-20	20		1			
	F	8-38						
3165	eL	14-45						
May	L_N	14-57	15		1-			
31	F	15-07						
3166	eL	21-54						
May	L	22-03	24	1	1			
31	F	22-23						

-W. to Cochrane

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From..... ..... *to*..... *No*.....

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
		SASKATOON RECORD						
3139 May 14	O	(22-11-13)					6850	No clock correction given.
	iP	(22-21-32)						
	e_N	(22-25.5)						
	iS^N	(22-29-53)						
	SR_{1N}	(22-34.6)						
	eL	(22-38)						
	L_N	(22-49)						
	M_N	(22-57)						
	L_N	(23-05)						
	L_N	(23-33)						
	F	(0-16)						
								W.W.D.

SEISMOLOGICAL BULLETINS RECEIVED

MAY

1928

We acknowledge, with thanks, the receipt of the following seismological publications and bulletins.

STATIONS	BULLETINS	RECEIVED
Domodossola	January, February, March 1928	May 3, 1928
Algiers	March 7-31, 1928	"
Stuttgart	Jan. 6 to Mar. 31, 1928	May 5, 1928
Wurtemberg	Jan. 4 to Mar. 31, 1928	"
Rome	April 1-14, 1928	May 8, 1928
Helwan	March 7-31, 1928	"
Uccle	July 11 to December 31, 1927	May 9, 1928
Zurich	No. 77 - March, 1928	May 10, 1928
Loyola University	February, March, April 1928	"
Sucre	Nos. 17-29 - Aug. to Dec. 1927.	May 12, 1928
La Paz	Nos 1-24 - Jan. to Mar. 1928	"
Barcelona	April 1 to November 8, 1927	"
Nagoya	March, 1928	"
Toledo	July and August 1927	"
Almeria	do.	"
Malaga	do.	"
Alicante	do.	"
St. Louis	April 3-25, 1928	May 14, 1928
Tsing-Tao	February to May, 1927	"
Rome	April 15-21, 1928	May 18, 1928
Toronto	November 4-28, 1927	"
Victoria, B.C.	November 1-28, 1927	"
Hamburg	January, February, March 1928	"
Perth	Aug. 5 to Dec. 31, 1927	"
Cartuja	January, February, March 1928	"
Strasbourg	March, 1928	May 19, 1928
Paris	do.	"
La Plata	April, 1927	May 22, 1928
St. Louis	Prelim. Bull. May 14, 1928	May 23, 1928
Denver	April 9-18, 1928	"
Spokane	April 3-27, 1928	"
Zurich	Jahresbericht des Schweizerischen Erdbebendienstes 1926	May 25, 1928
Manila	February 1-29, 1928	"
Rome	April 22-28, 1928	"
Zagreb	Sept. 2 to Dec. 31, 1927	"
Aachen	Map Erdbeben 6.1. 1926	May 26, 1928
Helwan	April 1928	"
Zi-ka-wei	Jan. 4 to Mar. 3, 1928	"
La Plata	March 1928	"
Osaka	Year 1926	May 28, 1928
Jena	No. 4 - July 1 to Sept. 24, 1927;	
	No. 1 - Jan. 1 to Mar. 31, 1928.	"
Kew	April 1928	"
Sydney, N.S.W.	March 9-16, 1928	May 30, 1928
Zi-ka-wei	March 3-18, 1928	"
Jinsen	Dec. 28, 1927; Jan. 1 to Mar. 29, 1928	"
Algiers	April 1-30, 1928	May 31, 1928

DOMINION OBSERVATORY
OTTAWA - CANADA.

R. Meldrum Stewart,
Director.

Ernest A. Hodgson
Seismologist.

W. W. Doxsee
Assistant Seismologist.

DOM. OBS. No. 67
3,000—6-27

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_0	r	V	ϵ	COMP.	1" tilt	DETERMINED
~~5.2~~			~~120~~	~~2:1~~	~~NS~~	~~displ't~~	Jan. 10, 1928
I	6.2		120	10:1	EW		Jan. 10, 1928
II	11.9		250	20:1	EW	44 mm.	Dec. 30, 1927
17	12.0		250	20:1	NS	44 mm.	Jan. 11, 1928
23	36.8		---	13:10	EW		Feb. 15, 1927
D	37.0		---	13:10	NS		Feb. 15, 1927
D	5.2		160	4:1	Vert		Jan. 18, 1928
W							

June 1 / 1928 June 1 / 1928 27

From ..... *to* ..... *No.* .....

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3167	e_E	0-02.0						
une 1	e_N	0-05.2						
	e	0-10.0						
	e_E	0-16.0						
	e_E	0-24						
	eL_E	0-33		..				
	L	0-41	30	3	2			
	L_E	0-52	20	2				
	L_N	0-55	17		2			
	L_E	1-02	17	1				
	F	1-12	17	1	1-			
		1-43						
3168	eL	9-06						
une 1	L	9-10	24	1	1			
	F	9-20						

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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 1 /1928 to June 6 / 1928 No. 28

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3169 June 1	e	13-20						Early phases lost while changing paper
	i	13-35-52						
	e_{LE}	13-48						
	L_N	13-58	17		1			
	L_E	14-04	20	7				
	M_{1E}	14-09-24	17	10				
	M_{1N}	14-10-40	20		15			
	M_{2E}	14-13-00	17	9				
	L_N	14-14	17		5			
	L_E	14-17	15	2				
	L_N	14-29	17		2			
	L_E	15-02	15	1				
	F	16-03						
3170 June 1	eL	22-58						
	L_N	23-03	20		1-			
	F	23-11						
3171 June 3	e	7-10						
	F	7-18						
3172 June 3	e_N	8-59.4						
	e	9-13						
	eL	9-17						
	L_E	9-25	20	7				
	L_E	9-29	15	2				
	L_N	9-33	17		6			
	L_N	9-37	15		2			
	L_E	9-41	15	2				
	F	10-27						
3173 June 3	eL	23-00	20	1-	1-			
	F	23-16						
3174 June 4	e_N	2-26						
	e_{LE}	2-28						
	L	2-30	20	2	1-			
	L	2-31	12	1-	1-			
	F	2-49						
3175 June 5	eL_E	6-48						
	L	6-53	20	1-	1-			
	F	7-07						
3176 June 6	eL_N	16-59.6						
	L	17-01	15	1-	1-			
	F	17-06						

DOM. OBS. No. 68
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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

E

From June 6 / 1928 *to* June 15 / 1928 *No.* 29

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3177	e	19-44.8						
June 6	eL	19-58						
	L_E	20-09	17	1				
	L	20-12	15	1-	1-			
	F	20-43						
3178	e	6-14						Local ?
June 8	F	6-23						
3179	e_E	15-04.0						
June 8	e_N	15-05.5						
	e_E	15-08.2						
	e	15-13.1						
	eL	15-24						
	L_E	15-37	20	4				
	L	15-41	17	2	1			
	L_E	15-53	15	1				
	L_N	16-04	15		1			
	F	17-08						
3180	eL	2-58						
June 9	L	2-59	13	1	2			
	L_N	3-01	10		1			
	M_1E	3-02	10	3				
	F	3-17						
3181	eL	14-04.5						
June 14	F	14-10						
3182	eP^1	6-32-49						Interpretation
June 15	ePR_3	6-38-32						accerding to
	iPS	6-42-56						Macelwane
	iSR_1	6-49-24						
	eL_E	7-04						
	eL_N	7-07						
	M_1E	7-18	24	20				
	M_2E	7-23	20	12				
	M_1N	7-24	24		21			
	L_E	7-26	17	6				
	L_N	7-31	17		8			
	M_3E	7-33	17	12				
	L_N	7-38	15		3			
	L_E	7-59	15	4				
	L_N	8-11	15		1			
	L_E	8-31	15	1				
	L_N	8-40	15		1			
	F	9-20						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 15 / 28 *to* June 17 / 28 *No.* 30

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
5183	e	17-32.4						
une 15	e_N	17-36-38						
	e ?	17-42						
	e_N	17-46.4						
	e	17-53.1						
	eL_E	18-08						
	eL_N?	18-10						
	L_E	18-24	24	15				
	L_N	18-25	24		12			
	L_E	18-27	20	7				
	L_N	18-28	20		7			
	L_N	18-33	17		4			
	L_E	18-39	17	7				
	L_E	19-04	15	1				
	L_E	19-24	17	1				
	F	20-05						
5184	e	18-57.4						
une 16	e_E	19-05.2						
	e_N?	19-09						
	eL_N?	19-22						
	L_E	19-30	24	2				
	L_N	19-31	24		2			
	L_N	19-33	20		2			
	L_E	19-35	20	1				
	L	19-39	17	1-	1-			
	F	20-42ca						
5185	O	3-19-20					3700	Mexico
une 17	iP	3-26-16						
	ePR_{2N}	3-27-20						
	e_E	3-27-24						
	PS_E	3-30-08						
	iS	3-31-46						
	iSR_1	3-33-16						
	iSR_{2E}	3-33-44						
	eL	3-35-28						
	e_E	3-37-00						
	e_N	3-37-24						
	iM_E	3-37-12						
	iM_N	3-40-14						
	M_{1N}	3-40.6	(20)		(561)			
	M_{1E}	3-40.8	(18)	(778)				
	M_{2N}	3-43.5	(15)		(486)			
	M_{2E}	3-44.8	(18)	(701)				
	M_{3N}	3-46.3	(15)		(321)			
	M_{3E}	3-48.6	(18)	(563)				
	M_{4N}	3-50.9	(12)		(272)			
	M_{5N}	3-53.6	(12)		(268)			
	M_{4E}	3-53.8	(12)	(250)				

DOM. OBS. No. 68
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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 17, 1928 *to* June 21, 1928 *No.* 31

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3185 June 17	M_{5E}	3-58.6	?	?				
	M_{6N}	3-59.6	13		(270)			
	M_{7N}	4-05.8	12		144			
	M_{7E}	4-10.3	?	?				
	M_{8N}	4-18.2	12		80			
	L_N	4-25 to 5-01	15		28			
	M_{8E}	4-35	?	?				
	L_E	4-49 to 5-41	15	18				
	L_N	5-01 to 6-50	15		11			
	L_E	5-41 to 6-29	15	8				
	L_E	6-30 to 7-21	15	2				
	L_E	7-22 to 8-09	15	1				
	F	8-39						
3186 June 17	i	22-33-28						
	eL	22-37						
	M_1	22-44	15	4	3			
	L	22-51 to 23-00						
	F	23-24						
3187 June 17	e?	23-31.6						Micros Mask
	i	23-37-15						
	eL?	23-46	21	1-	1-			
	M_{1N}	23-48.5	16		8			
	M_{2N}	23-52	13		5			
	M_E	23-52	13	5				
	F	24-25						
3188 June 18	i	15-52-45	Irr					Micros Mask
	eL	16-01.3						
	F	16-30						
3189 June 21	eL_E	4-47.5	?	1-				Faint traces only on N.S.
	L_E	4-50	19	1-				
	F	5-10						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 21, 1928 *to* June 24, 1928 *No.* 32

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3190	eP_{R1}E	10-59-25						
June	PR_2	11-02-07						
21	S_E	11-06-16						
	S_N	(11-07.2)						
	PS_N	11-09-00						
	SR_1	11-15-00						
	eL_N	11-27						
	eL_E	11-32						
	M_{1E}	11-36	30	31				
	M_{1N}	11-37	24		16.			
	M_{2E}	11-40	22	25				
	L	11-44	18	15	8.5			
	L	12-01	15	8.7	5.			
	L	12-55	22	5.6	4.5			
	L	13-00	18	7.6	2.			
	F	14-00						
3191	eL_N	16-09			1-			
June	eL_E	16-11.5		1-				
21	F	16-19						
3192	O	16-27-22					4620	Preliminary locatio by U.S.C.G.S.
June	iP	16-35-24						
21	iPR_1	16-37-03						φ=61°.8N
	S	16-41-45						λ=148°.7W
	SR_1	16-44-25						O=16-26-52
	iL_1	16-46-46						
	M	16-52	4	56.	72.5			
	L	17-08	8	18.4	18.5			
	L_N	17-31	12		14.8			
	L_E	17-31	15	14.3				
	L	17-57	15	5.	10.			
	L	18-50	12	1.	1.			
	F	20-25						
3193	e_E	7-32.3						
June	e_N	7-36.3						
23	eL_E	7-38						
	L	7-39	10	1.	1.			
	L_E	7-52	10	1-				
	F	8-08						
3194	e_N	4-52.0						
June	e_E	4-58.8						
24	e_N	5-00.0						
	eL_N?	5-05.5						
	L_N	5-12	20		1-			
	F_N	5-45						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 24, 1928 *to* June 30, 1928 *No.* 33

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3195	e	7-40.3						
June	e_L	7-51						
25	L_E	7-58	20	1	1			
	L_N	8-07	17		1-			
	F_N	8-22						
3196	e_N	1-03.5						
June	L_E	1-13 to						
27		1-21	(8)	1-	1-			
	F	1-36						
3197	i	23-09-41						
June	i	23-15-25						
29	i_E	23-16-40						
	e_N	23-17-24						
	i_N	23-19-24						
	i_E	23-25-50						
	eL_N	23-38						
	e_{L_E}	23-40						
	M_{1N}	23-43.4	22		24			
	M_{2N}	23-50.5	22		35			
	M_{1E}	23-53.7	22	35				
	M_{2E}	23-59.4	17	30				
	L_N	0-20	17		7			
	L_E	0-37	17	6				
	L_E	1-09	17	4				
	L_N	1-13	17		3			
	L_E	1-35	17	1				
	F_E	2-30						

DOM. OBS. No. 67
3,000—6-27

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_0	r	V	ϵ	COMP.	1" tilt	DETERMINED
I	5.2		120	2:1	NS	displ't	Jan.10, 1928
II	5.2		120	10:1	EW		Jan.10, 1928
17	11.9		250	20:1	EW	44MM	Dec.30, 1927
23	12.0		250	20:1	NS	44MM	Jan.11, 1928
D	35.8			13:10	EW		Feb.15, 1927
D	37.0			13:10	NS		Feb.15, 1927
W	5.2		160	4:1	Vert		Jan.18, 1928

From July 1, 1928 *to* July 7, 1928 *No.* 34

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3198	e_N	9-30.8						
July	e	9-36.4						
1	eL	9-41						
	L	9-44	19	2	2			
	I.	9-49	15	1	1			
	F	10-30						
3199	e	1-06.9						
July	L	1-09	15	1	1			
6	F	1-40						
3200	e	3-42.0						Evidently from a
July	e	3-46.8						nearby epicentre
7	eL	3-53.4						
	L	3-55 to 4-07	Irr.					
	F	4-47						
3201	e	18-23.4						
July	eL	18-41						
7	L	18-49	20	1	1			
	F	19-16						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 7, 1928 *to* July 10, 1928 *No.* 35

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h .m s	s	μ	μ	μ	km.	
3202	e	12-03.1						
July	e	12-08.4						
3	eL	12-13						
	L	12-22	15	1	1			
	F	12-52						
3203	e_E	21-30.5						
July	e_N	21-33						
9	e_Z	21-43.7						
	e	21-49.3						
	e	21-59.4						
	eL	22-13						
	L_N	22-28	20			9		
	M_{1E}	22-31	19	20				
	L_N	22-33	17			4		
	L_E	22-40	17	7				
	L_N	22-41	15			2		
	L_N	22-45	15			1		
	L_E	22-51	15	3				
	L_N	23-02 to 23-50	17			1		
	L_E	23-24	24	2				May be another quake
	L_E	23-39	20	2				
	L_E	23-44	17	1				
	F	0-29						
3204	O	2-02-32						
July	iP	2-09-28					3700	
10	iS	2-14-58						
	eL	2-18						
	M_{1E}	2-27	15	6				
	M_{1N}	2-29	15			8		
	L_N	2-35	12			2		
	L_E	2-41	12	1				
	L_N	2-56	12			1-		
	F	3-35						
3205	e?	10-13						
July	e	10-35.0						
10	eL_N?	10-42						
	L_E	10-45	15	1-				
	L_N	10-51	10			1-		
	F	11-20						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 10, 1928 *to* July 18, 1928 *No.* 36

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h ' m s	s	μ	μ	μ	km.	
3206	e_E	3-21.0						
July	e_N	3-27.5						
11	L_E	3-54	20	1				
	L_N	3-55	17		1			
	L_E	3-59	17	1				
	I	4-00	15		1			
	M	4-05	17	3				
	L_E	4-09	15	1				
	L_E	4-16	15	1				
	L_E	4-30	15	1-				
	F	5-21						
3207	e	9-46.6						
July	e_E	9-54.3						
13	e_N	9-56-12						
	e_E	10-02.1						
	L_N	10-26	20		1			
	L_E	10-27	20	1				
	L_N	10-35	17		1-			
	L_E	10-37	17	1				
	F	11-11						
3208	e_N	9-54.3						
July	eL_N	10-05						
15	L_N	10-10	20		1			
	L_E	10-15	17	1				
	L_N	10-16	15		1			
	F	10-32						
3209	O	19-04-58					5580	
July	iP	19-14-03						
18	iPR_1	19-16-12						
	i_N	19-17-10						
	i_E	19-17-35						
	i_N	19-19-24						
	i_S	19-21-17						
	i_E	19-22-00						
	i_E	19-24-00						
	eSR_{1E}	19-25-02						
	iSR_{2N}	19-26-10						
	i_E	19-26-42						
	eL	19-29						
	M_{1E}	19-30.4	(18)	(55)				
	M_{1N}	19-35	15		50			
	M_{2N}	19-42	15		34			
	M_{2E}	19-46	17	23				
	M_{3N}	19-49	15		21			
	L_E	19-52	17	8				
	M_{4N}	19-59	15		10			
	L_N	20-05	15		6			

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 18, 1928. *to* Jul. 25, 1928. *No.* 37

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3209 July 18	L_E	20-11	15	½	μ	μ		
	L_N	20-25	15		3			
	I_E	20-57	15	1				
	I_N	20-58	15					
	F	22-55						
3210 July 19	eL	6-05.4	10	1-	1-			
	F	6-14						
3211 July 19 20	e	23-59						
	e	0-09						
	eL	0-36						
	L	0-45	20	1-	1-			
	F	1-56						
3212 July 21	eL	6-52						
	L_N	6-54	17		1-			
	F	7-16						
3213 July 22	e_N	7-35.1						
	i_E	7-40-33						
	i_N	7-40-36						
	eL?	7-51						
	L	7-56	8	1	1			
	I	8-02	8	1	1			
	L	8-08	(12)		1-			
	F	8-45						
3214 July 23	e_E?	8-03.7						
	e_E?	8-10.4						
	e_E	8-19.6						
	e_N	8-21.9						
	eL	8-39						
	L	8-55	20	2	1			
	I	9-00	17	1	1			
	L_E	9-18	15	1-				
	F	9-42						
3215 July 23	e_N	15-36.2						
	eL	15-43						
	I	15-49	15	1	1			
	L	15-56	12	1-	1-			
	F	16-16						
3216 July 25	e	19-02.1						
	eL	19-08.4						
	L	19-12	8	1-	1			
	F	19-38						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 25, 1928 *to* July 31, 1928 *No.* 38

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3217	eL	16-39						
July	L_N	16-39	20		1-			
27	F_N	16-55						
3218	e	20-02.2						
July	e	20-11-45						
28	eL_N	20-29						
	L_N	20-34	20		1.			
	F_N	20-55						
3219	e_N	2-47.2						Much better marked
July	e_N	2-52.2						on NS com onent
30	e_N							
	M	3-05	21	3.	12.			
	L_N	3-10	15		4.			
	F_N	3-55						

DOM. OBS. No. 67

3,000—8-28

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*

ERNEST A. HODGSON, *Seismologist*

W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation, boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_o	r	V	ϵ	COMP.	1" tilt	DETERMINED
I	5.2		120	2:1	NS	displ't	Jan. 10, 1928
II	6.2		120	10:1	EW		Jan. 10, 1928
17	11.9		250	20:1	EW	44 mm.	Dec. 30, 1927
23	12.0		250	20:1	NS	44 mm.	Jan. 11, 1928
D	36.8		---	13:10	EW		Feb. 15, 1927
D	37.0		---	13:10	NS		Feb. 15, 1927
W	5.2		160	4:1	Vert.		Jan. 18, 1928

From August 1, 1928 *to* August 3, 1928. *No.* 39

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3220	e	1-07.3						
Aug.	L	1-10	13	1-	1-			
1	F	1-12						
3221	e_N	6-53						
Aug.	eL?	7-03	17	1	2			
2	L_N	7-12	12		1-			
	F	7-42						
3222	e_N	12-05-24						
Aug.	e_N	12-09.6						
3	eL	12-14						
	L	12-23	17	1-	1			
	F	12-52						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From Aug. 3, 1928 to Aug. 15, 1928 No. 40

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3223	O	18-26-01					3800	
Aug.	iP	18-33-04						
4	iPR_{2N}	18-34-20						
	i_E	18-34-30						
	iS_E	18-38-39						
	iS_N	18-38-45						
	eL	18-42-38						
	M_{1N}	18-47.3	22		333			
	M_{1E}	18-48	15	161				
	M_{2N}	18-50.8	16		434			
	M_{2E}	18-52	15	143				
	M_{3E}	18-57.7	18	120				
	M_{3N}	18-59.4	12		105			
	M_{4E}	19-10	18	38				
	M_{4N}	19-16	15		40			
	M_{5E}	19-34	15	14				
	M_{5N}	19-41.5	15		20			
	L_E	19-57	13	3				
	L_N	20-15	15		3			
	L_E	20-19	13	1-				
	L_N	20-54	(17)		(2)			
	F	22-57						
3224	e	15-11.5						
Aug.	e	15-18						
5	eL	15-35						
	L_N	15-54	20		1			
	L	16-14	12	1-	1-			
	F	16-30						
3225	e	8-30.4						
Aug.	e_E?	8-47						
12	eL_E	9-01						
	L	9-17	20	1	1			
	F	10-13						
3226	e_N	12-22.7						
Aug.	e_E	12-24						
12	F	12-33						
3227	e?	15-44.4						
Aug.	e	15-50.0						
15	eL	15-53						
	L	16-00	15	1-	1			
	F	16-22						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From Aug. 15, 1928 *to* Aug. 24, 1928 *No.* 41

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3228	e_N	17-28-26						
Aug.	i5?	17-35-06						
15	eN	17-38-30						
	e_E	17-38-46						
	eL	17-44						
	L_N	17-56	15		1			
	L_E	18-03	15	1-				
	F	19-05						
3229	e	3-02.2						
Aug.	eL	3-07.4						
19	L_E	3-09	15	1-				
	F	3-18						
3230	e	18-00						
Aug.	L	18-12 to						
20		18-35	(10)	1-	1-			
	F	18-55						
3231	e	6-39.3						
Aug.	eL	6-52						
22	L_N	7-02	17		1-			
	F	7-12						
3232	eL_N	20-22						EW component not operating
Aug.	L_N	20-30	15		1			
22	F	20-54						
3233	e_E	22-03.4						
Aug.	e	22-08-42						
24	e_E	22-10-04						
	e	22-19-30						
	e_N	22-20-39						
	e_N	22-31.1						
	eL	22-35						
	eL_E	22-39						
	M_{1N}	22-38	24		9			
	L_E	22-47	20	2				
	L_N	22-53	17		1			
	L_E	22-56	15	1				
	L_N	23-01	15		1-			
	L_E	23-24	15	1-				
	L	0-24	20	2	3			Probably another quake
	L_N	0-51	17		1-			
	F	1-05 ca						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From Aug. 24, 1928 to Aug. 31, 1928 No. 42

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3234	e_N	4-36						
Aug.	eL_N	4-47						Clock work of EW
26	L_N	5-00	17		1-			component stopped
	F	5-39						
3235	e	10-15						
Aug.	eL_N	10-19						
29	F	10-40						
3236	e	22-12						
Aug.	eL_N	22-19						
30	L_N	22-24	15		1			
	F^N	22-47						

DOM. OBS. No. 67
3,000—8-28

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

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Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_o	r	V	ϵ	COMP.		DETERMINED
I						1"tilt	
II							
17	5.2		120	2:1	NS	disolt	Jan. 10, 1928
23	6.2		120	10:1	EW		Jan. 10, 1928
D	11.9		250	20:1	EW	44 mm	Dec. 30, 1927
D	12.0		250	20:1	NS	44 mm	Jan. 11, 1928
W							

From 5.2 *to* 160 4:1 Vert *No.* Jan 18, 1928

Sept. 1, 1928 — Sept. 1, 1928 — 43

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3237 Sept 1	e	6-33-24						
	e_N	6-36-20						
	e_L	6-58						
	L_E	7-05	20	3				
	L_N	7-10	19		6			
	L_N	7-15	17		3			
	L_E	7-18	15	1				
	L_N	7-25	15		2			
	L_N	8-40	15		1-			
	L_E	8-45	15	1-				
	F	9-11						
3238 Sept 1	0	23-53-58						
	eP_N	0-00-48					3620	
	eS	0-06-13						
	SR_2	0-08-16						
	$1L_E$	0-09-52						
	M_{1E}	0-13	10	7				
	M_{1N}	0-17	15		16			
	L_N	0-30	13		2			
	L_E	0-33	13	1-				
	L_N	0-39	13		1-			
	F	1-54						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From Sept. 1, 1928 to Sept. 13, 1928 No. 44

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3239	eL	14-59.2						
Sep.	M_{1N}	15-00.5	10		2			
5	L_E	15-02	10	1-				
	F	15-16						
3240	eL	7-21						
Sep.	L_N	7-26	20		1			
6	F	7-36						
3241	e	16-59						
Sep.	F	16-59.4						Probably local disturbance.
7								
3242	e_N	1-07						
Sep.	e_N	1-14						
11	eL_N	1-27						
	L_E	1-37	(20)	1-				
	L_N	1-39	20		1			
	L_E	1-44 to 1-57	20	1-				
	L_N	1-45	17		1-			
	L_N	2-05	15		1-			
	F	2-18						
3243	eL_Z	(13-00)						
Sep.	L_Z	(13-03)						
11	L_Z	14-01 to 14-24	(13)	1-	1-			
	F	15-22						
3244	eL_N	23-20						
Sep.	F	23-28						No trace on E-W component.
11								
3245	e	1-47-00						
Sep.	e	1-55-38						
12	e_N	1-58-42						
	eL_N	2-07						
	L_N	2-26	15		1-			
	F	2-51						
3246	e_N	3-47.6						
Sep.	e	3-48-50						
13	e	4-05.4						
	eL_E	4-26						
	eL_N	4-29						
	L_N	4-36	24		4			
	L_E	4-38	24	2				
	L_N	4-45	20		2			
	F	5-35						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From Sept. 13, 1928 *to* Sept. 22, 1928 *No.* 45

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3247	e	8-14-24						
Sep.	eL	8-16						
14	L	8-20	17	1	1			
	F	8-52						
3248	e_N?	15-47.7						L waves of short period and small amplitude.
Sep.	eL	15-51.4						
14	F	16-04						
3249	e	17-32.7						
Sep.	e	17-39-12						
18	eL	17-46						
	L	17-52	20	2	3			
	L_N	17-57	17		2			
	L_E	18-09	17	1				
	L_N	18-11	15		1			
	L_E	18-24	15	1-				
	L_N	18-34	15		1			
	F	19-22						
3250	e	20-17.5						
Sep.	e	20-21-10						
18	e	20-26.0						
	eL	20-40						
	L	20-54	20	1	2			
	F	21-28						
3251	eL_N	3-03.6						
Sep.	L_E	3-06	13	1				
19	F	3-11						
3252	e_N	13-36-50						
Sep.	e_E	13-44.6						
21	eL	13-49						
	L_N	14-04	17		1-			
	F	14-16						
3253	e	6-21.2						
Sep.	e	6-30.0						
22	eL_N	6-40						
	L_N	6-45	15		1-			
	L_E	6-54	15	1-				
	F	7-33						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From Sept. 22, 1928 to Sept. 30, 1928 No. 4[illegible]

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3254	O	(7-30-40)					(13500)	Interpretation
Sep.	e_N?	7-46.4						according to
22	P_{R1N}	7-51-28						Macelwane Tables.
	PS?	8-01-16						
	SR_1?	8-08.0						
	e_N	8-17						
	e_E	8-22						
	eL_N?	8-29.4						
	eL_E?	8-31						
	M_{1E}	8-35	17		25			
	M_{1N}	8-40.5	24	48				
	M_{2E}	8-44	17	33				
	M_{3E}	8-49	17	28				
	M_{2N}	8-50	15		16			
	L_E	8-55	15	8				
	M_{3N}	8-56	15		13			
	M_{4N}	9-04	(24)		(26)			
	L_E	9-08	15	2				
	L_N	9-16	15		3			
	L_E	9-18	15	1				
	L_N	9-51	15		1			
	F	10-50						
3255	e_N?	13-54.0						
Sep.	eL	13-59.6						
23	L	14-04	12	1-	2			
	F	14-29						
3256	e	8-24.7						
Sep.	eL?	8-38						
25	L_N	8-55	20		1			
	L_E	8-58	17	1				
	F	9-22						
3257	O	0-44-21					3690	
Sep.	iP	0-51-16						
27	iS_N	0-56-45						
	eL_N	1-00.6						
	L_N	1-07	17		5			
	L_E	1-09	12	2				
	L_N	1-10	12		1-			
	L_E	1-13	12	1				
	F	2-08						

W. W. Doxsee

DOM. OBS. No. 67
3,000—8-28

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation, boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_o	r	V	ϵ	COMP.	1"tilt	DETERMINED
	5.2		120	2:1	NS	displ't	Jan. 10, 1928
I	6.2		120	10:1	EW		Jan. 10, 1928
II	11.9		250	20:1	EW	44 mm.	Dec. 30, 1927
17	12.0	✓	250	20:1	NS	44 mm.	Jan. 11, 1928
23							
D							
D	5.2		160	4:1	Vert.		Jan. 18, 1928
W							

From Oct. 1, 1928 *to* Oct. 7, 1928 *No* 47

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3258	eL_N	19-18.3						Local:
Oct.	eL_E	19-20.5						
2	F	19-27						
3259	e$_N$	18-47.7						
Oct.	e$_E$	18-50.1						
4	e	18-55.5						
	eL_N?	19-07						
	L_N	19-14	24		2			
	L_N	19-16	20		3			
	L_N	19-19	24	1				
	L_E	19-24	17	1				
	L_E	19-28	15		1-			
	L_N							
	F	20-10						
3260	eL	11-16						Local:
Oct.	L	11-17.4	10	1	1			
7	F	11-25						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 7, 1928 *to* October 10, 1928 *No.* 48

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3261	eL_N	1-44						
Oct.	L	1-45.5	10	1-	1-			
8	F	1-48						
3262	eL_N	2-45						
Oct.	L	2-46.3	12	1-	1-			
8	F	2-49						
3263	O	3-01-02					3700	Mexico
Oct.	iP	3-07-58						
9	iPR_{2N}	3-09-02						
	iS	3-13-28						
	iSR_1	3-15-04						
	iSR_{2E}	3-15-30						
	eL?	3-16.5						
	M_{1N}	3-22.8	22		618			
	M_{1E}	3-22.8	(15)	(29)				
	M_{2N}	3-25.0	18		638			
	M_{2E}	3-27.0	17	239				
	M_{3N}	3-29.4	17		422			
	M_{4N}	3-34.3	13		214			
	M_{3E}	3-36.7	13	150				
	M_{5N}	3-44.8	13		109			
	M_{4E}	3-54.5	13	31				
	M_{6N}	3-57.2	(15)		(63)			
	M_{7N}	4-05.6	13		30			
	M_{5E}	4-13.6	15	25				
	M_{8N}	4-14.8	15		33			
	L_E	4-21	13	7				
	M_{9N}	4-22.6	13		17			
	L_E	4-55	13	3				
	L_N	5-04	13		6			
	L_N	6-01	(17)		(2)			
	F	7-45						
3264	e_E?	15-14.3						
Oct.	e	15-27						
9	eL	15-35						
	L_N	15-39	20		1			
	L_E	15-46	20	1				
	L_N	15-51	17		1-			
	L_E	15-54	17	1-				
	F	16-18						
3265	eL	21-30						
Oct.	L_N	21-42	20		1-			
10	F	21-56						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 10, 1928 *to* October 15, 1928 *No.* 49.

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3266	eL_N	4-33						No trace on EW component
Oct.	L_N	4-35	20		1-			
11	F	4-41						
3267	e_N	0-09						
Oct.	eL	0-28						
12	L_N	0-42	15		1			
	F	1-06						
3268	e_N	7-51.8						
Oct.	e_N	8-02.5						
12	eL_N	8-10						
	L_E	8-13 to 8-45	?					
	L_N	8-25	17		2			
	L_N	8-41	17		2			
	F	9-02						
3269	eL_N	9-14						
Oct.	L_N	9-17	20		2			
12	F	9-30						
3270	eL	23-26						
Oct. 12	F	23-32						
3271	eL	13-25						
Oct.	L_N	13-32	20		1			
13	F	13-46						
3272	eL_N	16-21						
Oct.	L_N	16-27	(20)		1			No trace on EW component
13	F	16-53						
3273	eL	19-03						
Oct.	L	19-04.2	10	1-	1			Local?
13	F	19-10						
3274	e	2-20						Trace only
Oct.	F	2-37						
15								
3275	e	8-58.0						
Oct.	e	9-07.5						
15	eL	9-20						
	L	9-28	20	2	2			
	L_E	9-41	17	2				
	L_N	9-43	17		3			
	L_N	9-51	17		1			
	L_E	10-02	15	1				
	F	10-50						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 15, 1928 to October 19, 1928 No. 50

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3276 Oct. 15	e ?	14-39.6						
	i	14-44-02						
	i_E	14-45-00						
	e	14-51.7						
	e	14-56-08						
	eL	15-07						
	M_{1E}	15-16.8	22	24				
	M_{1N}	15-18.4	19		26			
	M_{2E}	15-21.7	19	20				
	L_E	15-24	15	5				
	M_{2N}	15-26.0	15		11			
	L_E	15-29	15	3				
	L_N	15-35	13		3			
	F	17-12						
3277 Oct. 17	e_N ?	6-57						
	eL_N?	7-06						
	eL_E?	7-11						
	L_N	7-22	17		1			
	L_N	7-27	15		1			
	L_E	7-29	17	1				
	F	7-57						
3278 Oct. 17	e_N	15-43-51						
	e	15-51-52						
	e_N	15-56.9						
	eL	16-05						
	L_E	16-11	22	3				
	L_N	16-15	22		6			
	L_E	16-19	20	5				
	L_N	16-21	20		8			
	L	16-26	17	3	3			
	L_E	16-36	15	1				
	L_N	16-47	15		1-			
	F	17-57						
3279 Oct. 19	e_N	6-17.4						No trace on EW component
	eL_N	6-20						
	L_N	6-24	20		1-			
	F	6-38						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 19, 1928 to October 25, 1928 No. 51.

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3280	e_N	10-46.9						
Oct.	e_N?	10-53.4						
19	eL_N?	11-07						
	eL_E?	11-19						
	L_N	11-25	17		5			
	L_N	11-30	17		6			
	L_E	11-33	17	1				
	L	11-38	17	2	4			
	L	11-44	15	1-	3			
	L	11-54	15	1-	1			
	F	13-11						
3281	e_N	15-53						
Oct.	L_N	15-58	?		1-			
19	F_N	16-16						
3282	e_N?	13-14						
Oct.	e_N	13-23						
20	eL_N	13-34						
	L_N	13-49	20		3			
	L_N	13-52	17		1-			
	F_N	14-15 ca						
3283	O	(17-52-26)					(7950)	
Oct.	eP_N?	18-03-45						
23	eS_N?	18-03-02						
	e_N ?	18-17.8						
	eL_N?	18-27						
	L	18-39	22	1-	3			
	L_N	18-45	20		2			
	F	19-23						
3284	O	12-32-57					3720	
Oct.	iP_N	12-39-54						
25	i	12-41-17						
	eS	12-45-25						
	eSR_{2E}	12-47.5						
	eL	12-49.6						
	M_1	12-54.2	19	?	94			
	M_{2N}	12-56.5	15		22			
	L_E	12-59 to 13-04						
	L_N	13-20	15		4			
	L_N	13-39	15		2			
	F	14-13 ca						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 25, 1928 *to* October 31 1928 *No.* 52

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3285 Oct. 28	e_N	14-49-50						
	eL	14-55						
	L	14-59	22	1	2			
	F	15-12						
3286 Oct. 30	eL	0-17						
	L_N	0-18	12		1-			
	F	0-24						
3287 Oct. 30.	e or eL	0-32-22						Local
	F	0-32-50						
3288 Oct. 30	O	4-23-11					3680	
	iP	4-30-05						
	eS_E	4-35-33						
	iS_N	4-35-36						
	eL	4-39.5						
	L_E	4-47.3	13	3				
	L_N	4-48.5	13		4			
	L_E	4-54	13	1-				
	L_N	4-59	13		1-			
	F	5-41						
3289 Oct. 30	eL	6-48						
	L	6-52	17	1-	1			
	F	7-03						
3290 Oct. 30	e	7-38.8						
	F	7-45						
3291 Oct. 31	e_E	20-27.0						
	eL	20-41						
	L_N	20-56	20		3			
	L_E	20-57	20	3				
	F	21-36						

J. H. Dowse

DOM. OBS. No. 67

3,000—8-28

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*

ERNEST A. HODGSON, *Seismologist*

W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation, boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_o	r	V	ϵ	COMP.	1"tilt	DETERMINED
~~I~~	~~5.2~~		~~120~~	~~2:1~~	~~NS~~	~~displ'mt~~	~~Jan.10,1928~~
I	6.2		120	10:1	EW		Jan.10,1928
II	12.0		250	20:1	EW	43.5 mm	Oct.25,1928
17	12.0		250	20:1	NS	44.0 mm	Jan.11,1928
23							
D							
D	5.2		160	4:1	Vert.		Jan.18,1928
W							

From November 1, 1928 *to* November 1, 1928 *No.* 53

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3292 Nov. 1	0	4-12-43					3250	
	iP	4-19-02						
	i_E	4-22-49						
	e_E	4-23-12						
	iS	4-24-03						
	i_E	4-25-50						
	iL?	4-27.4						
	M_1E	4-29.2	8	86				
	M_1N	4-29.5	8		(147)			
	M_2	4-31.4	(12)	(151)	(106)			
	M_3E	4-33.0	8	74				
	M_4E	4-34.3	8	49				
	L_N	4-37	6		9			
	M_5E	4-39.5	6	17				
	M_6E	4-53.4	8	9				
	L_N	5-02	8		3			
	L	5-13 to 5-38	8	1-	1-			
	F	6-27						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From November 1, 1928 *to* November 10, 1928 *No.* 54

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3293	O	(16-11-41)					(3020)	
Nov.	iP_N?	16-17-40						
1	eS ?	16-22-24						
	eL	16-26						
	M_{1E}	16-34.4	17	10				
	L	16-36	17	1	3			
	F	17-23						
3294	e E	20-06.4						Only faint trace on NS component
Nov.	eLE	20-14						
1	F	20-22						
3295	P'E?	4-35.2						Micros mask phases
Nov.	PS?	4-42.0						
6	eL_N	4-55.7						
	eME	5-01.5						
	M_{1E}	5-09	24	50				
	M_{1N}	5-15	17		13			
	M_{2E}	5-16	19	32				
	M_{2N}	5-23	15		9			
	M_{3E}	5-23.5	15	23				
	L_N	5-33	15		2			
	M_{4E}	5-34.5	15	7				
	F	6-40						
3296	e	15-45						
Nov.	eL	15-51						
7	L	15-56	15	6	7			
	F	16-28						
3297	eL	12-05						
Nov.	L_N	12-10	20		2			
9	L_E	12-13	20	3				
	F	12-38						
3298	e E	12-58						
Nov.	eL_N	13-21						
10	eL_E	13-26						
	L_E	13-32	20	6				
	L_N	13-35	20		3			
	L_N	13-40	20		2			
	M_{1E}	13-44	17	7				
	L	13-53	17	1-	1-			
	F	14-15						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From November 10th, 1928 *to* November 22nd, 1928 *No.* 55

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3299	e?	23-16.0						
Nov.	e_N	23-22.4						
11	$e_?$	23-27.7						
	eL_N?	23-50.1						
	eL_E	23-52						
	L	23-59	20	2	2			
	L	0-05	17	3	2			
	F	0-53						
3300	e?	13-36.3						
Nov.	eL	13-45						
15	L	13-55	20	?	2			
	F	14-06+						
3301	e	18-56						Micros mask record.
Nov.	eL	19-00						
18	F	19-15						
3302	eL	16-32.5						
Nov.	L_E	16-38	17	1-				
19	F	17-03						
3303	O	20-35-09					7550	
Nov.	iP	20-46-06						
20	iS	20-55-03						
	eSR_{2E}	21-02-56						
	eL	21-07						
	M1	21-17	19	25	68			
	M_{2E}	21-20	19	30				
	M_{2N}	21-22	17		17			
	L	21-28	17	3	6			
	eL	22-51.6						May be another quake
	L	23-08	20	2	3			
	F	23-44						
3304	e	9-00-50						
Nov.	e	9-07-22						
22	eL	9-26						
	L	9-30	20	3	4			
	L_N	9-38	18		3			
	L_E	9-43	18	2				
	L_E	9-59	16	1				
	L_N	10-11	18		1			
	L_E	10-15	16	1				
	F	11-09						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

November 22nd, 1928 — November 29th, 1928 — 56

From ..... *to* ..... *No.* .....

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
3305	e	9-33.0						
Nov.	e_L	9-36.3						
27	e	9-38.1						
	eL	9-40						
	M_1	9-46	13	8	?			
	F	10-24						
3306	e	1-30.2						
Nov.	e	1-35-38						
28	eL	1-41						
	L	1-46	?					
	L	1-51	11	2	4			
	F	2-33						
3307	e_E	7-46.7						
Nov.	eL_N	7-48						
28	L	7-50	15	1	1			
	L_E	7-54	15	1				
	F	8-08						
3308	e	11-05-47						
Nov.	e_E	11-13.9						
28	e_N	11-18.0						
	e?	11-24						
	e_N	11-35.2						
	eL	11-45						
	L_E	11-53	30	18				
	L_N	12-03	20		7			
	L_E	12-05	20	5				
	L_N	12-16	18		4			
	L_E	12-19	18	6				
	L_N	12-37	18		3			
	L_E	12-45	18	4				
	F	13-35						
3309	e	12-43-40						
Nov.	eL	12-55						
29	L_N	13-03	20		2			
	L_E	13-05	17	1-				
	L_N	13-11	15		1-			
	F	13-20						
3310	e_E?	14-22.2						
Nov.	e_N	14-44.3						
29	$L_?$	14-52	20	1-				
	F	15-14						

DOM. OBS. No. 68
20,000—6-27

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From November 29th, 1928 *to* November 30th, 1928 *No.* 57

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3311 Nov. 29	e_E	16-12.6						
	e	16-19.2						
	eL_N?	16-35						
	eL_E?	16-40						
	L	16-49	20	2	1			
	L_E	16-57	15	2				
	L_N	17-08	15		1			
	L_Z	17-16	15	1-				
	F	17-39						
3312 Nov. 29	e_E	18-21						
	e_N	18-28.1						
	e_E	18-29.9						
	e	18-36.2						
	e_N	18-52						
	eL_Z	18-59						
	L_E	19-06	17	6				
	L_E	19-07	17		5			
	L_N	19-13	17		5			
	L_N	19-15	17	10				
	L_E	19-25	15	3				
	L_E	19-28	15		2			
	L_E	19-36	15	3				
	L_N	20-14	17	1				
	L_E	20-24	15	1				
	F	21-12						
3313 Nov. 29	e_N	23-37.7						
	e	23-39.4						
	e_E	23-46.0						
	eL_E	23-57						
	L_E	0-15	17	1	1			
	L_E	0-27	15	2				
	L_E	0-33	15		1			
	F	1-33						

W. W. Doesee

DOM. OBS. No. 67
3,000—8-28

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
W. W. DOXSEE, *Assistant Seismologist*

$\varphi = 45° 23' 38''$ N. $\lambda = 75° 42' 57''$ W. h = 83m.

Lithologic foundation, boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
Time correction: within .25s.

INSTRUMENTS—FIXED CONSTANTS

INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
Bosch	I	Photographic	Air	15 mm. per min.	200 g.
Bosch	II	Photographic	Magnetic	15 mm. per min.	200 g.
Milne-Shaw	17	Photographic	Magnetic	8 mm. per min.	1 lb.
Milne-Shaw	23	Photographic	Magnetic	8 mm. per min.	1 lb.
Deformation	D	Photographic	Air	17 mm. per min.	20 g. ca.
Spindler-Hoyer	W	Smoked Sheet	Air	15 mm. per min.	80 kgm.

INSTRUMENTS—DETERMINED CONSTANTS

INSTRUMENT	T_o	r	V	ϵ	COMP.	1" tilt	DETERMINED
I	5.2		120	2:1	EW	displ't	Jan. 10, 1928
II	6.2		120	10:1	EW		Jan. 10, 1928
17	12.0		250	20:1	EW	43.5mm.	Oct. 25, 1928
23	12.0		250	20:1	EW	44.0mm.	Jan. 11, 1923
D							
D							
W	5.2		160	4:1	Vert.		Jan. 18, 1928

From December 1st, 1928 *to* December 1st, 1928 *No.* 58

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3314 Dec. 1	0	4-06-06					8980	
	iP	4-18-18						
	iPR_{1N}	4-21-38						
	iPR_{2N}	4-23-33						
	iS	4-28-27						
	iSR_{2E}	4-37-40						
	$eSR_{3?}$	4-40-08						
	eL	4-44.6						
	M_{1E}	4-48	24	197				
	M_{2E}	4-50	24	248				
	M_{1N}	4-50-30	24		214			
	M_{2N}	4-52-38	21		223			
	M_{3N}	4-54-28	21		285			
	M_{3E}	4-55.6	19	168				
	M_{4N}	4-56-35	21		502			
	M_{4E}	5-00	19	113				
	M_5	5-15	17	78	116			
	M_{6N}	5-08-48	15		73			
	M_{6E}	5-15.6	17	65				
	M_{7N}	5-29-40	15		25			
	M_{7E}	5-31.8	17	35				

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From December 1st, 1928 *to* December 3rd, 1928 *No.* 59

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3314 Dec. 1 Con'td	L_E	5-50.5	15	19				
	L_N	5-55	15		7			
	L_E	6-03	15	14				
	L_E	6-16	15	13				
	L_N	6-43	(20)		(18)			
	L_E	7-10	15	3				
	L_N	7-17	15		5			
	e	9-42.7						Probably another quake.
	L_N	10-05	15		1			
	L_E	10-15	15	1-				
	F	10-41						
3315 Dec. 1	O	18-32-29					8850	
	iP_N	18-44-34						
	eS	18-54-37						
	eL	19-12						
	L_E	19-24	20		2			
	L_N	19-27	17		1			
	L_E	19-28	17	1				
	F	19-54						
3316 Dec. 2	eL	3-27	10		2			
	F	3-34						
3317 Dec. 2	O	4-20-26					8920	
	iP_N	4-32-35						
	iS	4-42-41						
	e_E	4-47-16						
	eSR_{IE}	4-48.0						
	e_N	4-54.3						
	eL_E	4-56						
	eL_N	4-58						
	M_1	5-10	22	26	44			
	M_{2N}	5-12.5	20		42			
	M_{2E}	5-19.5	16	14				
	L	5-30	16	10	6			
	L_E	5-47	15	2				
	L_E	6-10	15	5				
	L_N	6-15	15		2			
	L_E	6-42	15	1				
	F	7-50						
3318 Dec. 3	e	12-40-45						
	e	12-43-44						
	eL?	12-46.4						
	L_E	12-49	18	6				
	L_E	12-51	18		4			
	L_N	12-54	15	2	1			
	F	13-30						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From December 3rd, 1928 *to* December 10th, 1928 *No.* 60

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3319	e	11-19-14						
Dec.	e	11-23-08						
5	e_L	11-26.7						
	e_E	11-31.0						
	F^E	11-47						
3320	P^i	9-36-52						
Dec.	PR_{2H}	9-42.6						
7	SR_1	9-53.4						
	e_H	9-59.6						
	eF	10-11						
	E^E	10-22	20	8				
	I^H	10-33	20		8			
	L^E	10-37	20	4				
	L_H	10-42	20		4			
	L^H	11-15	20	3	7			
	F^H	11-53						
3321	e_E?	0-44.5						Early phases masked by micros.
Dec.	e^E	0-50.2						
9	eL	0-55						
	L^E	1-07	17	2	1			
	L_E	1-23	15	1				
	F^E	1-41						
3322	e_E?	5-35						Micros mask record.
Dec.	e^E	5-42						
9	eL	6-00						
	L_E	6-16	(20)	(3)				
	L_N	6-22	(20)		(4)			
	L_E	6-35	15	2				
	F^E	7-45						
3323	eL	12-07						
Dec.	F	12-14 ca.						
9								
3324	eL	19-06						
Dec.	L_E	19-10	30	6				
9	L_H	19-13	20		3			
	L^E	19-31	15	2	1			
	F^E	20-30						
3325	e	21-52						
Dec.	e_H	21-56						
9	F^H	22-08						
3326	eL	5-42						
Dec.	L_H	5-49	20		1			
10	F^H	6-05						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From December 10th, 1928 to December 17th, 1928 No. 61

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3327	e?	19-35						
Dec.	L	19-43	20	1-	1-			
11	F	19-54						
3328	e?	20-10-10						
Dec.	e	20-44-24						
12	e	20-49-20						
	e	20-56-08						
	e	21-14.0						
	e	21-17						
	e?	21-20						
	I_1	21-27.5	17	17		?		
	II_2	21-39.0	15	27				
	II_3	21-43.5	15	18				
	II_4	21-50.5	15	9				
	II_5	21-57	15	9				
	L	22-12	15	3				
	L	22-33	15	2				
	F	23-15						
3329	e	0-20						
Dec.	L_{II}	0-24	17		1-			
15	L	0-32	17	1-				
	F	0-48						
3330	eL	20-26.8						
Dec.	II_{II}	20-27-24	10		3			
15	I_{II}	20-28	8		1-			
	L	20-29.5	10	1				
	F	20-35 ca						
3331	eL	23-41						
Dec.	L	23-45	20	1				No trace on NS component.
15	F	23-52						
3332	eL	4-59						
Dec.	L	5-12	15	1-	1-			
17	F	5-28						
3333	eL	6-35.9						
Dec.	L_{II}	6-37	8		2			
17	F	6-43						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From December 17th, 1928 *to* December 28th, 1928 *No.* 62

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
		h m s	s	μ	μ	μ	km.	
3334 Dec. 19	O	11-39 ca					13100 ca.	
	eP'	11-58-00						
	e	12-03-33						
	PS	12-08-18						
	SR_1	12-15-18						
	SR_2	12-20-04						
	SR_{3E}	12-23-45						
	e_E	12-28.0						
	e_E	12-30-38						
	eL	12-34						
	L_{1E}	12-42	30	122				
	L_{1N}	12-45	26		108			
	L_{2E}	12-47.3	24	209				
	L_{2N}	12-52.5	21		76			
	L_{3E}	12-57	17	25				
	L_{3N}	12-58.5	19		49			
	L_{4E}	13-03.8	17	20				
	L_{4N}	13-04.6	19		22			
	L	13-22	17		10			
	L	13-29	17	6				
	L	13-40	17	3	4			
	F	14-56						
3335 Dec. 26	O	21-32-47					4900	
	ii	21-41-08						
	ePR_1	21-42-50						
	iS^1	21-47-45						
	eSR_1	21-51-03						
	eL	21-54.5						
	L	22-12	10	1-	1-			
	F	22-49						
3336 Dec. 27	e_N	5-11.0						
	e_N	5-14.8						
	e_N	5-20.4						
	eL_E	5-33						
	eL_N?	5-40						
	L	5-54	17	1-	1-			
	F	6-11						
3337 Dec. 28	eL	5-39						
	L_E	5-41	20	1-				
	L_E	5-55	16	1-				
	F_E	5-59						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

December 28th, 1928 ~~December~~ 31st, 1928 63

From ..... *to* ..... *No.* .....

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
3338 Dec. 28	O	(h-m-s)	s	μ	μ	μ	(km)	
	eP?	14-40-35						
	eS?	14-51-12						
	eS1?	14-57-25						
	eL	15-09						
	M_{1N}	15-18	30		15			
	L_E	15-29	20	8				
	M_{2N}	15-34	19		12			
	M_{3N}	15-39	19		16			
	L_N	15-45	16		6			
	L_E	15-47	16	4				
	L_N	16-14	15		1			
	L_E	16-27	15	1				
	P	17-23						

W. W. Doxsee