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 displ'mt.	DETERMINED
I	5.2		120	2:1	NS		Jan. 10, 192
II	6.2		120	10:1	EW		Jan. 10, 192
17	12.0		250	20:1	EW	43.5mm.	Oct. 25, 192
23	12.0		250	20:1	NS	44.0mm.	Jan. 11, 192
D							
D							
W	5.2		160	4:1	Vert.		Jan. 18, 192

From January 1st, 1929 *to* January 13th, 1929 *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.	
3339 Jan. 6	eL	0-17.7						
	L_E	0-21	15	1				
	P_E	0-39						
3340 Jan. 8	eL	8-38						Record obscured by micros.
	L_N	8-45	15		1			
	P	9-07						
3341 Jan. 13	0	0-03-17					8050	
	eP	0-14-41						
	$i_?$	0-15-14						
	e	0-20.0						
	iS	0-24-03						
	iE	0-24-56						
	eSR_1	0-29-34						
	eSR_2	0-32-30						
	eL	0-33						
	L	0-51	16					
	L	1-00	16					
	F	3-06						

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SEISMOLOGIC STATION, DOMINION OBSERVATORY

From January 13th, 1929 *to* January 29th, 1929 *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.	
3342 Jan. 17	e_N	11-52-15						
	eL?	11-58.3						
	M_{1E}	12-01	30					
	L_E	12-07	17					
	L_N	12-13	17					
	L_Z	12-18	15					
	L	12-24	15					
	F	13-14						
3343 Jan. 21	e_E?	10-40.8						
	e_E?	10-45.7						
	e	10-48.5						
	e	10-51.2						
	eL	10-52						
	M_1	10-53.4						
	M_{2Z}	10-56.5	12					
	M_{2N}	10-57.5	12					
	F	11-40						
3344 Jan. 24	0	20-36-31					3740	
	eP	20-43-30						
	iS	20-49-02						
	eL	20-53.3						
	M_E	20-57.4						
	M_N	20-58.7						
	L_N	21-08						
	L_E	21-11						
	L	21-35						
	F	23-00ca.						
3345 Jan. 24	eL?	23-13.8						
	L	23-48						
	F	0-00						
3346 Jan. 25	e_E?	1-45						
	eL	1-48						
	F	1-58						
3347 Jan. 26	eL_E	21-06						
	L_E	21-09	15	1				
	F	21-19						
3348 Jan. 29	e_E?	22-06.5						Micros obscure record.
	e_E	22-11.4						
	L_E	22-18	?					
	F	22-30						

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20,000—12-28

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From January 29th, 1929 *to* January 31st, 1929 *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.	
3349	eL_E	17-53						
Jan.	L_E	18-02	?					
30	F	18-20						
3350	i_N?	18-12-50						
Jan.	e	18-18-00						
31	i	18-21-20						
	eL	18-25						
	H	18-28	15	12				
	L	18-34	15	3				
	F	19-10						

Note: Milne-Shaw No. 17, EW, was not in operation from January 10th, 1929, to 1 P.M., E.S.T., January 26th, 1929.
Milne-Shaw No. 23, NS, was not in operation from January 10th, 1929, to 4 P.M., E.S.T., January 31st, 1929.

W. W. Doxsee

DOM. OBS. No. 67
3,000—8-28

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

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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.
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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.	Ø-tilt	DETERMINED
I	5.2		120	2:1	[illegible]	[illegible]	Feb. 26, 1929
II	6.9		120	14:1	[illegible]		Feb. 2, 1929
17	12.0		250	20:1	[illegible]	44mm.	Jan. 26, 1929
23	12.0		250	20:1	[illegible]	43mm.	Jan. 31, 1929
D							
D							
W	5.0		160	6:1	Vert.		Feb. 25, 1929

From February 1st, 1929 *to* February 2nd, 1929 *No.* 4

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.	
3351 Feb. 1	O	17-15-17					8900	
	eP_N	17-25-25						
	eP_{N1}	17-31-00						
	eS_E	17-37-30						
	eL	17-52.5						
	L_E	17-58	17	25	16			
	L_E	18-11	15	4				
	L_N	18-21	15		2			
	-	19-45						
3352 Feb. 2	O	0-00-28					7350	
	iP	0-11-15						
	i	0-17-00						
	iS	0-20-02						
	SR_{1N}	0-25-10						
	SR_2	0-27-30						
	eL?	0-33						
	M_1	0-35	15	41	35			
	M_{2E}	0-48	15	30				
	M_{2N}	0-54	15		18			
	M_3	1-06	15	14	15			

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From February 2nd, 1929 *to* February 10th, 1929 *No.* 5

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3352	l_N	1-24	15		3			
Feb.	l	1-31	?					
2	l	2-07	?					
Cont'd	l_N	2-20	15		2			
	l	2-44	?					
	F	4-02						
3353	i	18-13-00						
Feb.	i	18-16-12						
3	el	18-20						
	l_N	18-22	17		4			
	F	18-52						
3354	el	6-55						
Feb.	l_N	7-00	12		1-			
4	F	7-11						
3355	e?	10-31						
Feb.	el	10-35						
4	el_N	10-37						
	l	10-40	15	3				
	l_N	10-41	17		4			
	F	11-04						
3356	e	3-55						
Feb.	el	4-00						
5	l	4-04	17	2	4			
	l_N	4-05	15		2			
	F	4-22						
3357	eL_N	(3-05)						No time signals
Feb.	L_N	(3-13)						
6	F	(3-20)						
3358	i	(7-10)						No time signals
Feb.	e	(7-20)						
6	eL_N	(7-28)						
	F	(8-00)						
3359	e	2-17-17						
Feb.	eL	2-23						
8	L	2-26	20	6	8			
	L	2-34	15	2	2			
	F	3-07						
3360	e	3-49-48						
Feb.	eL	3-55						
10	L_N	3-59	15		3			
	L	4-00	15	2	2			
	F	4-37						

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From February 10th, 1929 *to* February 22nd, 1929 *No.* 6

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.	
3361 Feb. 10	O	15-39-15					3580	
	iP	15-46-02						
	iM	15-47-28						
	iS	15-51-24						
	SM_2	15-53-38						
	eL	15-55.6						
	M_{1E}	15-58.8	19	133				
	$M_{1N}2N$	16-02.5	15	66	92			
	M_{3E}	16-04.4	13	29				
	M_{2N}	16-08.3	15		36			
	L_N	16-14	13		8			
	L_E	16-21	13	6				
	F_N	16-33	12		2			
	L_E	16-37	12	2				
	F	16-55	12	1-	1-			
		19-00 ca.						
3362 Feb. 13	e	22-25-38						
	e	22-27.7						
	eL	22-31						
	iM_1	22-34	20	10	8			
	M_2	22-36	13	4	7			
	L_N	22-44	13		2			
	F	23-30						
3363 Feb. 15	O	(8-04-40)					(3680)	
	eP_N?	8-11-34						
	iS	8-17-02						
	eL	8-21						
	M_{1E}	8-24.5	15	9				
	M_{1N}	8-27	13		10			
	M_{2N}	8-29	(15)		(12)			
	L	8-41	13	2	5			
	i	8-52	13	2	1			
	F	9-50						
3364 Feb. 19	eL_E	0-29 to 0-34						
	F							
3365 Feb. 19	eL	5-53						
	l	6-03	20	1	1-			
	F	6-14						
3366 Feb. 20	eE	21-28						
	l	21-36	12	3	2			
	F	21-57						
3367 Feb. 22	eL_E	6-15						No trace on N.S. component.
	L_E	6-20	20	1				
	F	6-25						

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From February 22, 1929 to February 28, 1929 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.	
3368	O	20-41-47					4900	
Feb.	iP	20-50-08						
22	iPR_{2N}	20-52-15						
	iS	20-56-45						
	eN	20-57-15						
	SR_1	20-59-48						
	iSR_{2N}	21-00-33						
	eL	21-02.7						
	M_{1E}	21-05.3	15	48				
	M_{1N}	21-08	12		12			
	M_{2E}	21-09.5	15	30				
	M_{2N}	21-16.5	12		8			
	M_{3E}	21-27.8	12	9				
	L_N	21-31	12		1			
	L_E	21-43	12	3				
	LR_{1E}?	23-19	15					
	L_E	23-47	15	1				
	F	0-22						
3369	eL_E	4-28						
Feb.	L_E	4-32	20	2				
26	L_E	4-40	17	1-				
	F	4-56						
3370	O	9-00-39					5900	
Feb.	iP	9-10-04						
26	iS	9-17-35						
	i_N	9-19-48						
	eL	9-26						
	M_{1N}	9-31	(8)		(6)			
	M_{1E}	9-34.4	15	21				
	L_N	9-41	12		1			
	L_E	9-47	15	8				
	L_E	10-01	12	2				
	L_E	10-21	12	1-				
	F	11-30						
3371	eL_E	20-04.4						
Feb.	L_E	20-10	15	1-				
27	F	20-19						

C. W. Peters

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SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
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Lithologic foundation, boulder clay over limestone (Ordovician). Time: Mean Greenwich, midnight to midnight.
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INSTRUMENT	SYMBOL	REGISTRATION	DAMPING	PAPER SPEED	MASS
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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_o	r	V	ϵ	COMP.	1" tilt	DETERMINED
	5.2		120	2:1	NS	displmt.	Feb. 26, 1929
I	6.9		120	14:1	EW		Feb. 2, 1929
II	12.0		250	20:1	EW	44mm.	Jan. 26, 1929
17	12.0		250	20:1	NS	43mm.	Jan. 31, 1929
23							
D							
D	5.0		160	6:1	Vert.		Feb. 25, 1929
W							

From March 1st, 1929 *to* March 1st, 1929 *No.* 8

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.	
3372 Mar. 1	e_E	7-39.7						
	e_S?	7-44-00						
	e_N	7-45.9						
	e_1	7-47						
	M_1	7-50.8	13	83	122			
	M_{2N}	7-52.5	10		29			
	M_{2E}	7-52.7	10	44				
	M_{3E}	7-54.0	10	25				
	M_{3N}	7-54.2	8		18			
	I_E	7-57 to 8-06	8	11 9				
	M_{4N}	8-04	8		5			
	I_N	8-14 to 8-38	?					
	I_E	8-07	8	3				
	I_E	8-31	(12)	(1)				
	F	9-05 +						F lost in next quake.

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 1st, 1929, *to* March 5th, 1929 *No.* 9

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3373 Mar. 1	e	9-05-30						
	eL	9-09						
	M_1	9-12.7	12	20	18			
	M_{2N}	9-14.2	8		7			
	L	9-16	8	4	3			
	L	9-28	8	1				
	L	9-37	(15)	(1-)				
	F	10-17						
3374 Mar. 1	e	15-52.4						
	e	15-56.0						
	eL	16-00						
	L	16-04	12	1	1			
	F	16-43						
3375 Mar. 1	eL	19-37						
	L	19-46	20	1-				
	F	20-05						
3376 Mar. 1	e	21-13						
	L	21-18	13	1-	1-			
	F	21-41						
3377 Mar. 3	e	9-21.7						Micros mask record.
	i	9-23-36						
	i_N	9-23-45						
	M	9-24.3	10	13	9			
	M_{2F}	9-26.6	8					
	F	9-41						
3378 Mar. 3	eL	17-06.8						
	L	17-08	15	3				
	L	17-09.7	12	1				
	F	17-22						
3379 Mar. 3	L	18-50 to 18-56						
	F							
3380 Mar. 5	eL	16-41						Irregular waves of small amplitude.
	L	16-53	?					
	F	17-03						

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SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 5th, 1929, *to* March 7th, 1929 *No.* 10

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.	
3381 Mar. 7	O	1-34-35					6540	
	iP	1-44-37						
	i-	1-46.8						
	PR_{2N}	1-48-10						
	iS	1-52-42						
	PS_N	1-53-08						
	SR_N	1-57-12						
	SR_1	1-59.3						
	SR_2	2-00-00						
	SR_3	2-02.8						
	eL_N	2-03.4						
	eL-	2-06.4	24		814			
	M_{1N}	2-06.8	24	920				
	M-	2-10.4	17	426				
	M_{2-}	2-10.4	15		360			
	M_{2N}	2-14.3	15		225			
	M_{3N}	2-14.6	17	457				
	M_{3-}	2-16.1	15		192			
	M_{4N}	2-17.4	17	474				
	M_{4-}	2-18.2	15		258			
	M_{5N}	2-20.4	17	388				
	M_{5-}	2-22.4	15		221			
	M_{6N}	2-25.2	15		233			
	M_{7N}	2-32.3	13		139			
	M_{8N}	2-32.4	15	192				
	M_{6-}	2-39.2	15	100				
	M_{7-}	2-39.2	13		80			
	M_{9N}	2-43.5	13		96			
	M_{10N}	2-46.5	13		79			
	M_{11N}	2-46.6	15	112				
	M_{8-}	2-52.5	13		63			
	M_{12N}	2-53.8	13	80				
	M_{9-}	2-56.4	13	84				
	M_{10-}	3-00.5	13		54			
	M_{13N}	3-05.3	13	43				
	M_{11-}	3-12.3	13		39			
	M_{14N}	3-14.0	13	38				
	M_{12-}	3-22.3	13	36				
	M_{13-}	3-23.5	13		43			
	M_{15N}	3-31.1	12	23				
	M_{14-}	3-39.9	12		20			
	M_{16N}	3-53.0	12	19				
	M_{15-}							
	L_N	4-02 to 4-55	Irr.					
	L-	4-10 to 5-10	Irr.					
	P	6-55 ca.						

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 7th, 1929, *to* March 11th, 1929 *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.	
3382	e-?	2-36.5						
Mar.	eS	2-41-38						
10	eL	2-51.5						
	L_E	3-06	24	5				
	L_N	3-08	24		5			
	L_E	3-09.4	19	7				
	L_N	3-10	19		4			
	L_E	3-12	15	4				
	L_E	3-22	15	1				
	L_N	3-25	15		1			
	F	4-17						
3383	e	11-13						
Mar.	e_N	11-21						
10	e	11-30-00						
	eL	11-46	56					
	M_1	11-53.5	19	11	20			
	M_2	11-59.0	20	58	47			
	M_3	12-02.0	19	118	61			
	M_{4E}	12-08.1	19	66				
	M_{4N}	12-12.5	19		27			
	M_{5E}	12-15.4	15	25				
	M_{5N}	12-27	19		15			
	M_{6E}	12-29.4	15	10				
	L	12-40 to 13-05	Irr.					
	L_E	13-05 to 13-23	(15)	(1)				
	F	14-20 ca.						
3384	i	14-58-58						
Mar.	e?	15-08.3						
10	eL_E	15-18						
	eL_N	15-21						
	L_N	15-27	24	2	1			
	F	16-04						
3385	e_E	23-04-48						
Mar.	eL	23-16						
10	L_E	23-21	20	2				
	L_N	23-23	20		2			
	L_E	23-26	18	1				
	F	23-50						
3386	e_E	13-39-47						
Mar.	eL	13-42.8						
11	H_{1E}	13-48	15	6				
	L_N	13-48 to 13-52	15		1			
	L_E	13-50	15	2				
	F	14-09 +						F lost in changing of paper.

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SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 11th, 1929, *to* March 19, 1929 *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.	
3387	eL	2-57						
Mar.	L	3-00	12	1	2			
12	F	3-19						
3388	L	17-47						
Mar.	L	17-50	15	1-	1-			
12	F	18-13						
3389	e	18-08.6						
Mar.	eL	18-10.7						
15	L_N	18-12	15		1			
	L_E	18-21	15	1				
	F	18-35						
3390	eL_E?	2-46						
Mar.	L	2-52	20	1	1-			
18	F	3-12 ca.						
3391	e_E?	23-57						
Mar.	eL	0-05						
18	L	0-16	17	1-	1-			
	F	0-47						
3392	L	8-14.3						Trace only.
Mar.		to						
19	F	8-22						
3393	e	9-46						
Mar.	L_E	9-47.2	10	2				
19	M_{1N}	9-47-30	10		7			
	L_N	9-48.2	10		2			
	L	10-00	10	1-	1			May be another quake.
	F	10-14 ca.						
3394	e	21-00-40						
Mar.	eL?	21-05.7						
19	M_{1N}	21-10.7	10		8			
	M_{1E}	21-13.6	13	24				
	M_{2N}	21-15.2	15		21			
	M_{2E}	21-15.5	15	19				
	M_{3E}	21-17.2	13	11				
	L_N	21-23	12		5			
	L_E	21-31	12	2				
	L_N	21-33	12		1-			
	L_E	21-43	10	1-				
	F	23-30 ca.						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 19th, 1929 *to* March 27th, 1929 *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.	
							3660	
3395 Mar. 21	O	2-36-56						
	iP	2-43-49						
	i_N	2-45-30						
	iS	2-49-16						
	SR_{2E}	2-51-12						
	i_N	2-51-58						
	iL	2-53.1						
	M_{1E}	2-59.9	13	31				
	M_{1N}	3-01.3	13		34			
	M_{2N}	3-04.2	13		17			
	M_{3N}	3-10.5	13		9			
	L_E	3-20	13	4				
	L_N	3-23	13		3			
	L_E	3-24	13	6				
	L	3-40	12	1	1-			
	F	5-20 ca.						
3396 Mar. 22	eL	4-03						
	L	4-11	15	1-	1-			
	F	4-29						
3397 Mar. 23	eL	11-49.3						
	L_E	11-50.0	12	1				
	M_{1N}	11-50.4	10		3			
	L	11-52	10	2	1-			
	F	12-16ca.						
3398 Mar. 23	L	21-00						Early phases lost while adjusting instruments.
	L	21-11	24	1	1			
	L	21-17	19	1	1			
	L_N	21-24	17		1-			
	L_E	21-28	17	1				
	L_E	21-39	15	1				
	F	22-15						
3399 Mar. 24	eL	6-30						
	L	6-35	20	2	1			
	L_E	6-40	17	1				
	F	7-10 ca.						
3400 Mar. 26	L_E	11-32						
	L	11-36	20	1-	1-			
	L_N	11-47	18		1-			
	F	12-05 ca.						
3401 Mar. 27	e	22-23.8						
	L_N	22-28	15		1			
	L	22-35	12	1-	1-			
	F	23-00 ca.						

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From March 27th, 1929 *to* March 31st, 1929 *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.	
3402	e	3-17.3						
Mar.	e	3-23-00						
28	eL_N	3-27						
	L_N	3-30	24		2			
	L	3-34	15	?	3			
	F	4-31						
3403	eE?	20-31.5						
Mar.	e_N	20-37.0						
28	i	20-43-00						
	i	20-46-08						
	e	20-52.0						
	eL	21-06						
	L	21-15	20	3	2			
	L_E	21-19	17	1				
	L	21-27	17	1	1			
	L_N	21-50	17		1-			
	L_E	21-58	15	1-				
	F	23-10 ca.						
3404	e	16-28 3						
Mar.	eL	16-34						
30	L_N	16-37	20		2			
	L_N	16-40	15		1			
	F	16-49						
3405	eL_E	3-42						
Mar.	L	3-44	20	1	1-			
31	LN	3-50	17		1-			
	F	3-58						
3406	e	6-02.4						
Mar.	eL_N?	6-20						
31	L	6-27	24	2	2			
	L_N	6-33	20		2			
	L_E	6-38	17	1-				
	L_N	6-43	15		1-			
	L_E	6-49	17	1				
	F	7-12						
3407	i_E	20-41-12						
Mar.	L_N	21-04	20		1			
31	L_E	21-13	17	2				
	L_N	21-20	15		1-			
	F	22-02						

W. W. Coxon

DOM. OBS. No. 67
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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	displmt.	Feb. 26, 1929
II	6.9		120	14:1	EW		Feb. 2, 1929
17	12.0		250	20:1	EW	44 mm.	Jan. 26, 1929
23	12.0		250	20:1	NS	43 mm.	Jan. 31, 1929
D							
D							
W	5.0		160	6:1	Vert.		~~Feb. 25, 1929~~

From April 1st, 1929, *to* April 7th, 1929 *No.* 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.	
3408 Apr. 6	e	1-34						
	eL	1-38						
	F	1-51						
3409 Apr. 6	e_N?	4-11						
	eL	4-15						
	M	4-15.8	12	2	3			
	L_N	4-16	10		1			
	F	4-42						
3410 Apr. 6	e	5-10.4						
	eL?	5-14						
	L_N	5-19.2	8		2			
	L_E	5-19.2	6	2				
	F	5-33						
3411 Apr. 7	e	19-39.0						
	e	19-40-15						
	eS?	19-44-35						
	eL	19-[illegible]-4						
	L_E	19-[illegible]2.4	(15)	(8)				
	M_{1N}	19-55.6	20		26			
	L_N	20-15	14		3			
	L_E	20-19	12	1-				
	F	21-07						

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From April 7th, 1929, *to* April 14th, 1929 *No.* 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.	
3412	e_N	10-38.2						
Apr.	e_N	10-41.0						
8	e	10-42.8						
	e_N	10-49.7						
	e_E	10-52.5						
	L	11-13	20	1	1			
	F	12-15 ca						
3413	eL_N	2-56						
Apr.	L_N	3-01	19		1			
9	F	3-26						
3414	e_E	4-16						
Apr.	eL_E?	4-22						
9	F	4-42						
3415	eL	5-02						
Apr.	L	5-15	17	2'	1'			
9	L	5-52	17	1-	1-			
	F	6-03						
3416	eL_E?	6-13		'	'			
Apr.	L	6-16	17	1-	1-			
10	F	6-27						
3417	e	9-37		'	'			
Apr.	L	9-43	15	1-	1-			
10	F	10-03						
3418	eL_E?	18-23			'			
Apr.	L	18-36	(20)	(1)	1-			
10	F	19-15						
3419	e_N	7-13						
Apr.	e_N	7-19.5						
13	L	7-43	24	2	2'			
	L	7-50	20	1	1-			
	F	8-09						
3420	e	21-34						
Apr.	e	21-40.5						
13	e_E?	21-49						
	L_E	21-57	?					
	L_N	22-05	?					
	F	22-20						
3421	eL_E	20-27						
Apr.	L_E	20-31	20	1				Trace only on NS component.
14	F	20-46						

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20,000—12-28

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From April 14th, 1929 to April 27th, 1929 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.	
3422	eL	1-40						
Apr.	L	1-50	18	1-	1-			
16	F	1-58						
3423	eL_E	5-38						
Apr.	L_E	5-45	20	1				Trace only on NS component.
16	F	6-11						
3424	e	14-24.3						
Apr.	eL_E?	14-34						
16	L	14-43	?	1-	1-			
	L_N	14- 51	?		1-			
	F	15-10 ca.						
3425	eL_N?	1-37						
Apr.	L	1-42	20	1	1			
20	F	1-53						
3426	e_E?	12-44.8						
Apr.	e	12-49.2						
21	eL	12-51.6						
	L_N	12-55	12		1			
	L_E	12-59	12	1				
	F	13-30						
3427	eL	21-21						L waves of small amplitude and short period.
Apr.		to						
22	F	21-26						
3428	eL	1-05						
Apr.	L	1-10	12	1-	1-			
23	F	1-24						
3429	eL	18-05.7						
Apr.	L	18-07-26	12	1-	2			
23	L_N	18-08	10		1			
	L_E	18-10	8	1-				
	F	18-19						
3430	e_N?	11-49.9						
Apr.	i	11-53-55						
27	eL	11-59						
	M_{1E}	12-03.6	13	8				
	M_{1N}	12-03.8	15		9			
	L_N	12-06	13		5			
	L_N	12-09	12		2			
	L_E	12-12	(12)	1-				
	F	13-04						

DOM. OBS. No. 68
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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From April 27th., 1929 *to* April 30th., 1929 *No.* 18

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.	
3431	e_N	21-58.5						EW component not
Apr.	eL_N?	22-03						operating at time
27	L_N	22-11	20		1			of quake.
	F	22-33						
3432	eL	19-06						
Apr.	L	19-10	15	1-	1-			
29	F	19-26						
3433	e	18-53.0						Local
Apr.	L	18-56.4	10	1	1-			
30	F	19-05						
3434	eL	20-02						
Apr.	L_N	20-08	20		1-			
30	L_E	20-10	20	1-				
	F	20-19						

Correction to January Bulletin

Quake No. 3348 should be dated Jan. 28th, 1929.

W W Dupree

DOM. OBS. No. 67
5,000—1-29

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

R. MELDRUM STEWART, *Director*
ERNEST A. HODGSON, *Seismologist*
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$\varphi = 45° 23' 38''$ 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.

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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'mt	Feb. 26, 1929
II	6.9		120	14.1	EW		Feb. 2, 1929
17	12.0		250	20:1	EW	44 mm.	Jan. 26, 1929
23	12.0		250	20:1	NS	43 mm.	Jan. 31, 1929
D							
D							
W	5.0		160	6:1	Vert.		Feb. 25, 1929

From May 1, 1929 *to* May 1, 1929 *No.* 19

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.	
3435	eL?	0-05.5						
May	L_N	0-06.3	10		1			
1	F	0-16 ca.						
3436	e	8-03.8						
May	eLE?	8-27.5						
1	L_N	8-39	20		2			
	LE	8-44	20	2				
	L_E	8-47	17	1				
	L_N	8-52	17		1-			
	F	9-25						
3437	0	15-37-37					9620	
May	iP	15-50-21						
1	i	16-00-45						
	iS	16-01-02						
	eSR_2	16-12.2						
	eL	16-20						
	M_{1E}	16-28	19	95				
	M_{1N}	16-29.5	19		150			
	L_E	16-32	17	47				
	L_N	16-35	19		33			

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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 1st, 1929 *to* May 7th, 1929 *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.	
3437	L_E	16-54	19	50				
Cont'd.	L_E	17-22	17	11				
May	L_N	17-27	17		10			
1	L_N	17-46	15		2			
	L_E	17-49	17	2				
	F	19-56						
3438	e	22-19.8						
May	e_N	22-24.0						
1	L_E	22-30	19	1				
	L_N	22-34	17		1			
	L_N	22-43	17		1			
	F	23-07						
3439	i_E	14-18-18						
May	e	14-57.5						
2	eL_N	15-10.4						
	L_E	15-16	20	2				
	L_N	15-20	20		2			
	L_E	15-22	15	1				
	F	16-02						
3440	eL	9-25						
May	L	9-32	20	1	1-			
3	F	9-44						
3441	eL	17-53						
May	L_N	18-12	20		1			
5	L_E	18-18	18	1-				
	F	18-34						
3442	e	5-31.5						
May	e	5-48.3						
6	eL	6-04						
	L_E	6-20	20	2				
	L	6-30	20	1	2			
	L_E	6-38	17	1-				
	L_N	6-43	17		1-			
	L_E	6-45	17	1				
	L_E	7-08	17	1-				
	F	7-30						
3443	e	16-50.8						
May	e	16-58.0						
7	i	17-06-45						
	e	17-14.0						
	L	17-41	24	6	8			
	L	17-53	20	3	4			
	LE	18-34	20	1				
	L_N	18-37	20		1			
	F	19-21						

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20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 7th, 1929 *to* May 17th, 1929 *No.* 21

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h, m s	s	μ	μ	μ	km.	
3444	eL_E	13-43						
May	L	14-04	20	1-	1-			
8	L_E	14-19	15	1-				
	F	14-36						
3445	L_E	17-32	?	1-				
May	L_N	17-33	17		1-			
9	F	17-39						
3446	eL	12-44.6						
May	L	12-49	10	1-	1-			
10	F	12-58						
3447	eE?	17-40						
May	L	17-55	15	1-	1-			
10	F	18-48 ca.						
3448	eL	19-49						
May	L	19-57	17	1-	1-			
11	F	20-11						
3449	e	9-43.2						
May	e_N	9-47-27						
12	e_E	9-51-24						
	eL_N	9-52						
	M_{1E}	9-55	19	6				
	M_{1N}	9-57	19		12			
	L_N	10-01	12		1-			
	L_E	10-05	12	1				
	F	10-51						
3450	eL	0-50						
May	L	0-56	15	1-	1-			
13	F	1-00						
3451	eL	9-45						
May	L	9-48	12	1-	1-			
13	F	10-08						
3452	e	13-50-45						
May	eL	14-08.4						
13	L_E	14-15	20	1				
	L	14-19	17	3	2			
	L_E	14-25	(13)	1-				
	L_N	14-39	15		1-			
	F	15-17						
3453	eL?	0-14						
May	L_E	0-22	15	1-				
17	L_N	0-28	?		1-			
	F	0-37						

DOM. OBS. No. 68
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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 17th, 1929 to May 22nd, 1929 No. 22

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3454 May 18	L_E	1-57						Trace only
		to						
	F	2-14						
3455 May 18	iS?	6-59-27						
	eL_E	7-08						
	eL_N	7-10						
	M_{1E}	7-20	24	16				
	M_{1N2E}	7-24	20	14	11			
	L_E	7-33	15	3				
	L_N	7-42	(17)		1			
	F	8-21						
3456 May 20	O	4-53-03					6680	
	iP	5-03-13						
	eS	5-11-25						
	eSR_1	5-16.2						
	eL	5-21.6						
	M_{1E}	5-29.3	20	27				
	M_{1N}	5-30	20		38			
	M_{2E}	5-34.1	17	18				
	M_{2N3E}	5-40	15	8	8			
	L_E	6-15	12	3				
	L_N	6-17	12		1			
	L_E	6-44	12	1				
	F	8-22						
3457 May 21	e	16-52.8						
	e_N	16-59.5						
	e_E	17-00.4						
	e_N	17-07-48						
	eL	17-21						
	M_{1E}	17-26.5	30	40				
	M_{2E}	17-32.6	24	24				
	M_{1N}	17-35.4	21		25			
	M_{2N3E}	17-40	17	9	11			
	L_E	18-11	15	3				
	L_N	18-17	15		2			
	L_E	18-31	15	1				
	F	19-40						
3458 May 22	eL_E?	1-27						Only a faint trace on NS component
	L_E	1-36	17	1-				
	F	1-58						

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 22nd, 1929 to May 26th, 1929 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.	
3459	e_E?	20-39.4						
May	e	20-48.8						
22	e	20-54.0						
	eL	21-08						
	L_N	21-24	20		2			
	L_E	21-29	17	1				
	L_N	21-37	17		1			
	L_E	21-53	15	1				
	L_N	22-06	15		1-			
	F	22-25						
3460	eL?	19-35						
May	L_N	19-47	15		1-			
24	F	19-55						
3461	e	3-58.1						
May	e	4-04.6						
25	F	4-21						
3462	O	12-01-01					4960	
May	e_N	12-08-48						
25	iP	12-09-26						
	iS	12-16-06						
	i_E	12-17-08						
	i_E	12-19-32						
	eLE	12-23						
	eLN	12-26						
	L_N	12-32	15		1-			
	F	13-19						
3463	i	9-05-11						
May	e?	9-14.4						
26	eLE?	9-36						
	L	9-58	20	1	1			
	F	11-05 ca.						
3464	O	22-39-29					4220	
May	eP	22-47-03						
26	i	22-48-51						
	i_N	22-50-30						
	iS_E	22-53-03						
	iS_N	22-53-10						
	i_N	22-53-35						
	i_N	22-55-10						
	eSR_2	22-56.0						
	iL	22-58.4						
	M_{1E}	23-00.7	8	323				
	M_{1N}	23-01.0						Maxima on NS co...
	M_{2N}	23-01.8						read from Bosch ...
	M_{3N}	23-03.0						as boom of NS. ...
	M_{2E}	23-05.5	10	270				at first large ...
								sion in record...
								waves

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 26th, 1929 *to* May 28th, 1929 *No.* 24

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.	
3464 Cont'd May 26	M_4N	23-09.4						
	M_3E	23-12.2	10	202				
	M_5N	23-14.5						
	M_4E	23-24.6	(13)	161				
	M_5E_6N	23-27.0	15	166				
	M_6E	23-41.3	15	70				
	M_7N	23-46.7						
	M_7E	23-56.0	15	26				
May 27	L	0-05 to 0-42	Irr.					
	L	0-42 to 1-04	Irr.					
	L	1-04 to 2-28						
	L	2-28 to 2-57						
	F	3-41						
3465 May 27	eE	5-38						
	L_E	5-42	20	3				
	L_E	5-47	17	1				
	F	6-28ca.						
3466 May 27	e	6-28.2						After shock of quake 3464?
	L_E	6-29	8	1-				
	L	6-30-38	8	1	?			
	F	6-45						
3467 May 28	e	0-03						
	e	0-08.0						
	e_E	0-13-08						
	eL	0-14						
	L_E	0-17	13	6				
	M_1N	0-17.4	17		5			
	L_E	0-19	13	4				
	M_2N	0-20.8	13		4			
	L_N	0-26	12		1			
	L_E	0-30	13	1				
	L_N	0-33	12		1			
	L	0-47	12	1-	1			
	F	1-23						
3468 May 28	e	4-24.4 to						May not be seismic
	F	4-28						
3469 May 28	e	5-12-20						
	eL_N?	5-29						
	L	5-37	15	1-	1-			
	F	5-53						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 28th, 1929 *to* May 30th, 1929 *No.* 25

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.	
3470 May 28	L	17-03 to						
	F	17-10						
3471 May 29	e_N?	4-53.8						
	e_N?	4-57.0						
	eL	5-00.6						
	L_E	5-04	10	1-				
	F	5-15						
3472 May 29	eL	12-51.2						
	L_E	12-52	8	1-				
	F	13-01						
3473 May 29	e_N	13-24.4						
	L	13-25	12	1-	1-			
	F	13-31						
3474 May 29	eL	14-33						
	L	14-34	10	2	4			
	L	14-37	8	1	1-			
	F	14-48						
3475 May 29	L	17-20 to	12	1-	1-			
	F	17-26						
3476 May 30	L	2-18.6 to	12	1-	1-			
	F	2-24						
3477 May 30	O	9-43-23					8940	
	iP	9-55-33						
	e_N	9-58.2						
	iS_N	10-05-40						
	iN_E	10-07-00						
	eE_L	10-17.3						
	eL_{1N}	10-22.6						
	M_{1E}	10-33.7	20		17			
	L_N	10-34.7	16	12				
	L_E	10-37	17		6			
	L_E	10-42	15	2				
	L_N	10-51	15	1				
	L_N	10-55	17		4			
	L_N	11-07	17		2			
	e	12-33.2						Probably another quake
	L_E	12-48	24					
	L_N	12-57	17		1			
	L_E	13-01	17	1				
	F	13-44						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From May 30, 1929 *to* May 31st, 1929 *No.* 26

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.	
3478	e	0-33.1						
May	eL	0-49						
31	L_N	1-00	24	.	2			
	L_E	1-04	17	1-				
	L_N	1-07	20		1			
	F	1-33						

W W Doxsee

DOM. OBS. No. 67
5,000—1-29

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							
II	5.2		120	2:1	NS	displ'mt	Feb. 26, 1929
17	6.9		120	14:1	EW		Feb. 2, 1929
23	12.0		250	20:1	EW	44 mm.	Jan. 26, 1929
D	12.0		250	20:1	NS	43 mm.	Jan. 31, 1929
D							
W							~~Feb. 25, 1929~~
	5.0		160	6:1	Vert.		

From June 1, 1929 *to* June 2, 1929 *No.* 27

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.	
3479	e	14-18.9						
June	L_E	14-24	20	1				
1	L_N	14-28	(15)		1			
	L_E	14-39	15	1-				
	F	14-56						
3480	eL	18-54						
June	L_E	19-00	.(17)	1-				
1	L_N	19-05	17		1			
	L_N	19-14	17		1-			
	F	19-24						
3481	e	21-55-19						
June	i	22-01-22						
2	e	22-02-02						
	eN	22-03-23						
	i_E	22-04-28						
	e	22-05-47						
	e_E	22-08-46						
	e	22-11.0						
	L_E	22-22	19	3				
	L_N	22-34	15		1			
	L_E	22-36	15	1				
	F	23-27						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

June 2, 1929 ——— ~~June~~ 7, 1929 28

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

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
3482 June 3	0	20-41m45s	s	μ	μ	μ	7950.	
	eP	20-53-04						
	eS	21-02-21						
	SR_2?	21-10.4						
	eL	21-15.3						
	M_{1N}	21-19	22		6			
	L_E	21-19	20	2				
	L_E	21-25	17	2				
	L_N	21-30	13		1			
	F	22-09						
3483 June 4	L	12-45 to	17	1-	1-			
	F	12-56						
3484 June 4	i	15-36-15						
	i_N	15-37-35						
	i_E	15-43-26						
	e_N	15-48.1						
	e	15-52.4						
	LE	16-09	Irr.					
	F	16-57						
3485 June 6	0	10-50-15					7960	
	eP_E	11-01-34						
	e_E	11-04-13						
	eS	11-10-52						
	SN_2	11-18-49						
	eL_E	11-23.5						
	L	11-27	17	2	2			
	L_E	11-35	17	2				
	L_N	11-37	15		1			
	F	12-26						
3486 June 6	eL_E?	15-29						
	L_N	15-37	22		1			
	L_E	15-39	20	1				
	L_N	15-43	20		1			
	F	16-32						
3487 June 6	e_E	16-38						
	e_N	16-43						
	L_E	16-49	24	2				
	L_N	16-51	20		1			
	L_E	16-59	17	1				
	L_N	17-02	17		1-			
	F	17-39						
3488 June 7	e_E	0-50						
	L_E	0-55	22	1				Only a trace on N-S component
	F	1-06						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 7, 1929 *to* June 10, 1929 *No.* 29

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3489	e?	18-13.4						
June	eL	18-20						
8	L_N	18-24	15		1			
	F	18-44						
3490	e_N	1-15.3						
June	e_E	1-17.6						
9	e	1-19-46						
	eL	1-21.6						
	L	1-25	13	1-	1			
	F	1-48						
3491	eE?	7-04.3						
June	eL	7-08						
9	F	7-19						
3492	e	8-19.0						
June	e	8-23.8						
9	e	8-27.0						
	M	8-32.3	8	6	3			Irregular $\bar{L}$ waves
	L	8-40	8	1-	1-			
	F	9-20						
3493	O	9-08-06					8740	
June	eP	9-20-05						
9	e_N	9-23.2						
	iS	9-30-02						
	SR_{2E}	9-39-25						
	eL	9-44						
	M_{1E}	9-48	20	8				
	M_{1N}	9-54	16		12			
	M_{2N}	9-57.5	18		12			
	M_{2E}	9-58	20	13				
	M_{3N}	10-01	20		13			
	M_{3E}	10-04	15	8				
	L_N	10-05	15		3			
	L_E	10-28	15	2				
	L_N	10-30	15		1			
	L_N	10-49	15		1			
	L_E	11-08	15	1				
	F	12-20						
3494	e	23-58.7						
June	L_E	0-03	20	1-				
9	L_N	0-06	17		1-			
10	F	0-21						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 10, 1929 *to* June 13, 1929, *No.* 30

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3495	0	23-03-08					5080	
June	eP	23-11-41						
10	PR_{IN}	23-13-34						
	iS_N	23-18-28						
	SR_I	23-21-53						
	eL	23-34-40						
	M_{IE}	23-39.6	15	6				
	M_{IN}	23-40	15		8			
	L_N	23-42	12		4			
	M_{2E}	23-43	12	5				
	L_E	23-46	12	1				
	L_N	23-48	12		3			
	L_N	23-46	10		1-			
	L_E	23-50	10	1-				
	F	0-25						
3496	e	12-03.8						
June	e	12-14.0						
12	e_E	12-21.6						
	eL	12-42						
	L_E	12-50	20	3				
	L_N	12-50	17		2			
	L_N	13-01	15		1			
	L_E	13-05	17	1				
	F	14-00ca						
3497	0	0-12-23					8800	
June	eP	0-24-25						
13	iS_E	0-34-25						
	i	0-48-02						May be S phase of second quake.
	eL	0-49						
	M_{IE}	1-03.0	17	27				
	M_{IN}	1-07.2	19		25			
	M_{2N}	1-12.0	17		38			
	M_{2E}	1-16.4	17	30				
	M_{3N}	1-22.2	17		23			
	M_{3E}	1-22.6	15	18				
	M_{4N}	1-29.6	15		14			
	M_{4E}	1-31.0	15	11				
	M_{5N}	1-37	15		9			
	M_{5E}	1-55.8	15	7				
	L_E	2-05	15	3				
	L_N	2-07	15		2			
	L_E	2-24	Irr					
	L_N	2-28	Irr					
	F	3-56						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 13, 1929 *to* June 15, 1929 *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.	
3498	iPR1	9-45-14						
June	$S_cP_cS_N$	9-50-38						
13	$S_cP_cP_cS_E$	9-52-14						
	PS_N	9-55-19						
	SR_1	10-03.2						
	eL_E	10-16						
	M_1N	10-29.0	24		27			
	M_1E	10-30.1	24	56				
	M_2NE	10-37.3	20	41	32			
	M_3N	10-47	17		19			
	M_4N	10-56.8	17		10			
	L_E	10-59	17	9				
	L_N	11-42	17		2			
	L_E	11-54	15	1				
	F	12-56						
3499	e_N	20-13-36						
June	e_N	20-18-05						
13	e	20-24.8						
	L	21-06	17	1-	1			
	F	21-44						
3500	e_N	23-21						
June	e	23-26-35						
13	e_E	23-29.1						
	e_N	23-34-45						
	e_E	23-37.8						
	eL	23-58						
June	L	0-19	17	1	1			
14	L_E	0-25	15	1				
	L_N	0-31	15		1			
	L_E	0-48	15	1				
	F	1-41						
3501	e_N?	0-18.4						
June	L	0-27	17	1-	1-			
15	F	1-18						
3502	e_N?	2-17						
June	e_N	2-30						
15	L_E	2-36	20	1				
	F	3-16						
3503	eL	10-06						
June	L_N	10-13	20		1-			
15	F	10-29						
3504	e	20-01.3						
June	L	20-47	20	1	1			
15	F	21-29						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 15, 1929 *to* June 17, 1929 *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.	
3505	L ..	15-33	12	1-	1			Quakes 3505 to 3510 are of character V and of greater amplitude on the NS component.
June	L_N	15-34	8		1-			
16	F	15-38						
3506	L	16-55.5	16	1-	1-			
June	L	16-57	10	1-	1-			
16	F	17-00						
3507	L	17-38.2	15	1-	1-			
June	L_N	17-39	10		1-			
16	F	17-43						
3508	e_N?	18-58.7						
June	e	19-00.5						
16	F	19-09						
3509	eL?	22-27						
June	L	22-28.2	12	1	2			
16	L	22-29	8	1-	1-			
	F	22-41						
3510	e	22-43						
June	L	22-44.4	12	1	2			
16	L_N	22-48	6		1-			
	F	22-57						
3511	eP^1	23-07-08						
June	PR_1	23-09-04						
16	PS_E	23-19-30						
	PPS_E?	23-21-04						
	SR_1	23-26-45						
	SR_2	23-31-30						
	eL	23-43-24						
	M_{1N}	23-55.0	24		82			
	M_{1E}	23-56.0	24	117				
June	M_{2N}	0-01.8	19		151			
17	M_{2E}	0-02	16	164				
	M_{3N}	0-08.1	17		72			
	M_{3E}	0-15.7	15	71				
	M_{4N}	0-16.0	15		43			
	M_{4E}	0-21.2	15	57				
	M_{5N}	0-26.4	15		44			
	M_{5E}	0-35.3	15	52				
	M_{6N}	0-49.1	24		72			
	M_{6E}	0-56	24	49				
	L_N	1-06	17		6			
	L_E	1-32	17	5				
	L_N	1-42	15		4			
	L_E	1-46	15	3				
	F	3-54						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 17, 1929 *to* June 22, 1929 *No.* 53

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3512	e_N	10-41.8						Clock of EN com-
June	L_N	11-30	20	2				ponent stopped.
17	L_N	11-42	17	1				
	F	12-07						
3513	L	16-27.3						This earthquake
June	L_N	16-28	8		1-			and the one
17	F	16-34						following are of character V.
3514	eL	10-43.5						
June	L	10-45	12	1-	1-			
18	F	10-55						
3515	e	7-56-43						
June	eL?	8-27						
19	L_N	8-47	17		1			
	L_N	9-06	15	1-				
	F	9-51						
3516	e?	10-20						
June	L_N	10-29	20		1-			
19	F	10-44						
3517	e	12-33.5						
June	L_N	12-35	12		1-			
20	F	12-38						
3518	e	15-51.8						
June	e	16-00.6						
22	e	16-09.5						
	eL?	16-28						
	L	16-37	20	2	2			
	L_N	16-42	17		3			
	L_E	16-44	15	6				
	L	16-57	15	1-	1-			
	F	17-58						
3519	e_E	19-01-42						
June	e	19-18-32						
22	eL_N	19-37						
	L_N	19-48	20		1			
	L_E	19-50	20	2				
	L_N	19-55	17		1-			
	L_E	19-59	15	1				
	F	20-56						
3520	e	22-54						
June		to						
22	F	23-00						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From June 22, 1929 *to* June 27, 1929 *No.* 34

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3521	eL_N	4-00						Record of V Character
June	L	4-02	12	1-	1-			
23	F	4-07						
3522	eL	6-59						
June	L	7-01	15	1	1-			
23	F	7-13						
3523	e?	22-55						
June	L_N	23-01	20		1			
23	L_N	23-08	20		1			
	F	23-29						
3524	e	18-41-20						
June	eL_N?	18-49						
24	L_N	18-53	12		1-			
	F	19-18						
3525	e	6-40.7						
June	eL_N?	6-47						
25	L_N	7-00	15		1-			
	F	7-20						
3526	e	9-36.0						
June	e?	9-41.3						
25	eL_N?	9-46						
	L_N	10-00	15		1-			
	F	10-23						
3527	e	6-48.9						
June	eL_N	7-01						
26	L_N	7-04	20		3			
	L	7-12	15	2	3			
	L_N	7-23	15		1			
	F	8-03						
3528	eL	17-36						
June	L_N	17-47	15		1-			
26	L_E	17-52	15	1-				
	F	18-07						
3529	eP	13-01-32					112°	ca
June	eP'_N?	13-05-04						
27	iPR_1	13-06-04						
	iPS	13-15-24						
	eSR_1	13-21-18						
	i_N	13-24-28						
	e	13-28-50						
	eL_N	13-37-38						
	iL_E	13-39-00						
	M_1NE	13-45.5	22	190	292			

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

June 27, 1929 June 30, 1929 35

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

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
3529	M_{2N}	13-50.0	20		124			
Cont'd	M_{2E}	13-51.5	22	250	μ	μ	km.	
June	M_{3E}	13-56.1	20	112				
27	M_{3N}	13-58.2	20		70			
	M_{4E}	14-05.7	20	93				
	M_{4N}	14-06.8	20		56			
	M_{5E}	14-10.5	15	48				
	L_E	14-17	15	14				
	M_{5N}	14-20.9	17		22			
	L_E	14-46	15	14				
	M_{6E}	15-05	20	30				
	M_{6N}	15-09.5	22		49			
	L_N	15-18	17		12			
	L_E	15-25	15	9				
	L_N	15-38	15		3			
	F	18-03						
3530	e_N	22-53.2						
June	e_N	22-57.7						
27	L_N	23-01	17		1-			
	F	23-10						
3531	L	9-13.5	12		1			
June		to						
28	F	9-18						
3532	e	3-05.5						
June	e_N	3-10-40						
30	e	3-22.0						
	eL	3-42						
	L	3-57	20	3	3			
	L_E	4-02	17	2				
	L_N	4-05	17		2			
	L_N	4-19	15		1			
	L_E	4-35	15	1				
	F	5-27						
3533	eL	6-25						
June	L_E	6-31	17	1-				
30	L_N	6-40	17		1-			
	L_E	6-44	17	1-				
	F	6-55						

W. W. Doxsee

DOM. OBS. No. 67
5,000—1-29

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	Feb. 26, 1929
II	6.9		120	14:1	EW		Feb. 2, 1929
17	12.0		250	20:1	EW	44 mm	Jan. 26, 1929
23	12.0		250	20:1	NS	43 mm	Jan. 31, 1929
D							
D							
W	7.0		160	11:1	Vert.		July 5, 1929.

From July 1, 1929 *to* July 3, 1929 *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.	
3534 July 1	eL_N	12-22.3						
	L_N	12-24	10		1-			
	F	12-28						
3535 July 2	eL	16-06						
	L	16-09	20	1	1			
	F	16-31						
3536 July 3	0	0-52-57					4740	
	eP	1-01-08						
	ePR_2	1-03-10						
	eS	1-07-36						
	i	1-08-04						
	SR_{1E}	1-10-44						
	eL	1-14-05						
	M_{1E}	1-15.3	8	4				
	M_{1N}	1-16.5	8		6			
	L_N	1-20	5		1-			
	F	1-56						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 3, 1929 *to* July 5, 1929 *No.* 37

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3537	eL	18-53						
July	L_E	18-59	20	2				
3	L	19-04	17	1	1-			
	L_N	19-09	17		1			
	L_E	19-20	17	1-				
	F	19-41						
3538	O	4-28-33					4650	
July	eP	4-36-37						
4	PR_2	4-38-25						
	eS	4-43-00						
	SR_{1E}	4-46.0						
	eL	4-49.2						
	M_1	4-51.3	10	29	20			
	M_{2E}	4-54.0	10	20				
	M_{2N}	4-54.5	10		19			
	L_E	5-06	10	2				
	F	5-47						
3539	eL	7-29						
July	L	7-47	17	1	1-			
4	L	8-12	15	1	1-			
	F	8-20						
3540	O	14-18-58,					7000	
July	eP	14-29-26						
5	PR_2	14-33-38						
	iS	14-37-55						
	SR_1	14-42-53						
	SR_2	14-44-52						
	eL	14-48.5						
	M_{1E}	14-51.8	24	176				
	M_{1N}	14-52.2	24		163			
	M_{2NE}	14-54.5	18	144	162			
	M_{3E}	14-58.6	17	242				
	M_{3N}	14-59.0	17		203			
	M_{4N}	15-07.6	17		93			
	M_{4E}	15-15.4	18	106				
	M_{5E}	15-28.6	18	47				
	M_{5N}	15-29.5	15		39			
	M_{6N}	15-45.0	15		11			
	M_{6E}	16-04	15	11				
	L_N	16-10	12		4			
	L_E	16-29	12	2				
	L_N	16-57	10		1			
	L_E	17-24	10	1-				
	F	19-00 ca.						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 5th, 1929 to July 6th, 1929 No. 38

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3541 July 5	e_E?	19-13.4						
	eL	19-23						
	L_N	19-25.5	17		1-			
	L_E	19-27	15	1				
	F	19-54						
3542 July 5	O	22-36-13					6950	
	eP	22-46-38						
	iS	22-55-04						
	SR_1	22-59-52						
	SR_2	23-02.0						
	eL	23-05						
	M_{1E}	23-14.2	20	60				
	M_{1N}	23-14.8	20		71			
	M_{2E}	23-16.6	20	87				
	M_{3E}	23-18.2	15	43				
	M_{2N}	23-21.1	17		32			
	M_{4E}	23-27.0	15	14				
	M_{3N}	23-33.6	15		16			
	M_{5E}	23-35.8	15	10				
	M_{6E}	23-45.6	15	8				
	M_{4N}	23-45.8	15		8			
July 6	L_E	0-00	13	1				
	L_N	0-07	13		2			
	L_N	0-19	12		1			
	L	0-33	12	1	1-			
	F	2-09						
3543 July 6	O	2-03-46					6950	
	eP	2-14-11						
	e	2-16.8						
	iS	2-22-37						
	SR_1	2-27-30						
	SR_2	2-29-32						
	eL	2-32.6						
	M_{1N}	2-42.5	20		21			
	M_{1E}	2-42.8	20	31				
	M_{2N}	2-49.8	15		10			
	M_{2E}	3-01.8	13	10				
	M_{3N}	3-19.0	13		6			
	L_E	3-26	12	4				
	L_N	3-30	12		3			
	L_N	3-43	12		2			
	L_E	3-52	12	1				
	L_N	4-02	10		1-			
	L_E	4-14	12	1-				
	F	5-45						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 6th, 1929 to July 7th, 1929 No. 39

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3544	O	9-46-16					4300	
July	eP	9-53-54						
6	PR_1	9-55-26						
	iS	10-00-00						
	eSR_{1E}	10-02-40						
	SR_{2N}	10-03-24						
	M_{1N}	10-06.7	15		20			
	L	10-16	17	?	9			
	L_E	10-23	15	?				
	L_N	10-32	15		4			
	F	11-45						
3545	e	16-35.7						
July		to						
6	F	16-40						
3546	L	22-09.5	12	1-	1-			
July		to						
6	F	22-13						
3547	L	3-27.5	17	1-	1-			
July		to						
7	F	3-33						
3548	L_N	5-09	12		1-			
July		to						
7	F	5-12						
3549	eL	6-47						
July	L	6-51	17	1-	1-			
7	L	6-56	15	1	1			
	L_N	7-02	15		1-			
	F	7-37						
3550	e	9-46						
July	eL	9-57						
7	L_E	10-04	15	1				
	L_N	10-07	17		1			
	L_E	10-11	15	1-				
	L_N	10-15	15		1-			
	F	11-05						
3551	O	21-23-07					6980	
July	iP	21-33-34						
7	iS	21-42-02						
	i_N	21-46-25						
	iSR_{1E}	21-46-58						
	iSR_2	21-48-56						
	iL	21-52-34						
	M_{1E}	21-55.8	28	593				
	M_{1N}	21-56.4	21		321			

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20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 7th, 1929, *to* July 9th, 1929. *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.	
3551	M_{2N}	21-58.4	17		276			
Cont'd	M_{2E}	21-58.5	19	320				
July	M_{3E}	22-00.3	19	427				
7	M_{3N}	22-02.8	17		445			
	M_{4E}	22-02.8	19	464				
	M_{5E}	22-06.6	19	317				
	M_{4N}	22-10.0	17		137			
	M_{6E}	22-22.2	15	65				
	M_{5N}	22-42.7	13		37			
	L_N	22-43.8	15	53				
	M_{7E}	23-05	13		9			
	M_{8E}	23-14.6	13	19				
July	L_N	0-13	Irr.					Probably a second earthquake.
8	L_E	0-58	30	6				
	L_N	1-15	20		1			
	L_E	2-36	30	3				
	L_N	2-43	17		2			
	F	3-42						
3552	eL	10-40						
July	L	10-45	17	1-		1-		
8	F	10-54						
3553	e	17-02						
July	eL_N	17-04						
8	M_N	17-05.2	10			4		
	L_E	17-06	10	1				
	L_N	17-08	8			1		
	F	17-37						
3554	e_N	18-50.5						
July	L	18-53.6	15	1-		1-		
8	F	19-25						
3555	e	19-27						
July	eL	19-40						
8	L	19-46	15	5		3		
	L_N	19-49	12			1		
	L_E	20-04	15	1				
	L_N	20-08	12			1-		
	L_E	20-16	12	1-				
	F	21-38						
3556	L	6-27	17	1-		1-		
July		to						
9	F	6-43						
3557	eL	9-07						
July	L_E	9-15	(15)	(1)				
9	L_N	9-17	15			1-		
	F	9-43						

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20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 9th, 1929 *to* July 13th, 1929 *No.* 41

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3558	e	13-55						
July	eL	14-05						
11	L_E	14-11	15	1				
	L_N	14-13	15		1			
	L_E	14-27	15	1-				
	F	14-49						
3559	O	20-57-10					6860	
July	eP	21-07-30						
11	eS	21-15-52						
	eSR_2	21-22.6						
	eL^2	21-26.0						
	L	21-32	17	4	2			
	L_N	21-38	15		1			
	L_E	21-50	15	1				
	F	22-59						
3560	eL_N?	10-53						
July	L	10-55	17	1-	1-			
12	F	11-09						
3561	e_E?	16-09.2						
July	e	16-12						
12	eL	16-16						
	M_1	16-17.6	8	13	10			
	M_{2E}	16-20.1	8	7				
	M_{2N}	16-20.3	8		5			
	M_{3E}	16-21.3	8	2				
	L_N	16-22	8		1			
	L_E	16-31	8	1-				
	F	17-06						
3562	e	8-00.4						
July	e_E	8-13						
13	eL	8-18						
	L_E	8-25	17	1				
	L_N	8-30	15		1			
	L_E	8-32	15	1				
	F	9-12						
3563	e_E?	15-11.3						
July	e	15-21.2						
13	e	15-28.4						
	e	15-33.5						
	eL	15-43						
	L	15-56	20	3	3			
	L_N	16-11	17		1			
	L_E	16-50	20	1				Probably another quake
	F	17-09						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 13th, 1929, *to* July 15th, 1929 *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.	
3564 July 13	e	19-02						
		to						
	F	19-05						
3565 July 14	L	6-49	20	1-	1-			
	L	7-07	[illegible]	1-	1-			
	F	7-26						
3566 July 14	e_N	7-59.3						
	e	8-07.2						
	L_N	8-22	17		1-			
	L_N	8-30	17		1-			
	F_N	8-45						
3567 July 14	e	9-10-42						
	e	9-21-00						
	e_N	9-26.6						
	eL	9-34						
	L	9-44	20	2	3			
	F	Lost in next quake						
3568 July 14	O	9-37-01					8320	
	eP	9-48-39						
	i_E	9-51-34						
	iS	9-58-15						
	SR_{1N}	10-04-00						
	eL_E	10-12						
	eL_N	10-13						
	M_{1N}	10-24	22		27			
	M_{1E}	10-24	20	20				
	L_N	10-31	17		6			
	L_E	10-37	17	5				
	L_E	10-43	Irr.					
	L_N	10-53	Irr.					
	F	12-13						
3569 July 15	e_E?	8-00.4						
	e	8-07-25						
	e	8-13-38						
	e_E	8-20.5						
	L_N	8-35	17		1			
	L_E	8-39	17	1				
	F	9-50						
3570 July 15	eL?	9-58						
	L_E	10-08	20	2				
	L_N	10-09	17		1-			
	L_E	10-20	15	1-				
	F	10-55						

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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 15, 1929, *to* July 21, 1929 *No.* 43

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h. m s	s	μ	μ	μ	km.	
3571 July 16	e_N	1-43						
	eL_E	1-49		.	.			
	L	1-55	17	1-	1-			
	L_E	2-06	15	1-				
	F	2-33						
3572 July 17	O	8-38-09					6950	
	eP	8-48-34						
	iS	8-57-00						
	SR_1	9-01-56						
	SR_2	9-04-04						
	eL^2	9-07.4						
	M_{1E}	9-14.8	17	18				
	M_{1N}	9-17.7	17		19			
	L_E	9-32	15	3				
	L_N	9-34	15		5			
	L	9-46	15	1	1			
	L_E	10-02	12	1-				
	L_N	10-08	10		1-			
	F	11-30						
3573 July 17	e_N	20-46						
	eL_E?	20-50						
	L_E	20-54	20	1				
	L_N	20-56	17		1-			
	L_E	21-03	17	1				
	F	21-20						
3574 July 18	e	6-37 to						
	F	6-40						
3575 July 18	e	7-01.5						
	eL	7-04.5						
	M_{1E}	7-05.4	12	5				
	M_{1N}	7-05.7	12		17			
	L_N	7-06	8		5			
	L_E	7-07	8	4				
	L_N	7-08	8		2			
	L_E	7-10	8	1				
	L_N	7-12	8		1-			
	F	7-40						
3576 July 21	L_N	10-51	17		1-			
	L_N	11-05	17		1-			
	F	11-35						
3577 July 21	eL_N?	14-17						
	L_N	14-30	17		1-			
	F	14-44						

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CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 21st, 1929, *to* July 27th, 1929, *No.* 44

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3578 July 23	L	14-33 to	17	1-	1-			
	F	14-41						
3579 July 23	O	(18-43-04)					(3740)	Felt on SW coast of Iceland.
	eP?	18-50-03						
	iS	18-55-35						
	eSR_2	18-57.5						
	eL^2	18-58.5						
	M_{1N}	19-02.4	13		8			
	M_{1E}	19-03.5	15	17				
	M_{2E}	19-05.3	13	9				
	L_N	19-08	Irr.					
	L_E	19-10	Irr.					
	L_E	19-33	Irr.					
	L_N	19-38	12		1-			
	L	20-24	15	1	1-			
	F	20-46						
3580 July 24	eL_N	12-12						
	L	12-14	10	1-	1-			
	F	12-19						
3581 July 25	eL	0-59						
	L_E	1-05	20	1				
	L_N	1-10	17		1-			
	F	1-28						
3582 July 25	L	13-17	20	1	1-			
	L_E	13-33	15	1-				
	L_N	13-36	15		1-			
	F	13-49						
3583 July 25 and 26	e?	23-09.8						
	e	23-20.0						
	e	23-32						
	L	23-37	20	1	1			
	F	0-13						
3584 July 26	e	23-12.0						
	e?	23-34						
	eL_E?	23-41						
	L_E	23-43	20	2				
	eL_N?	23-44						
	L_N	23-47	20		2			
	L_E	23-50	15	1-				
July 27	L_N	23-56	15		1-			
	F	0-39						

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20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From July 27th, 1929 *to* July 31st, 1929 *No.* 45

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3585	e_E	13-01.9						
July	e	13-08-42						
27	eL?	13-14						
	L	13-21	15	1-	1-			
	F	13-40						
3586	e?	20-29.8						
July	e	20-38-08						
28	L	20-43	12	1-	1-			
	F	20-56						
3587	e?	11-52.2						
July	eL	12-00						
29	L_N	12-05	20		1-			
	L_E	12-07	20	1				
	L_E	12-10	17		1-			
	F	12-28						
3588	eL	2-23						
July	L_N	2-27	15		1-			
30	F	2-37						
3589	e	4-06						
July	eL	4-10						
30	F	4-34						
3590	e	7-50-30						
July	e	7-52-02						
30	i	7-56-00						
	e_E	7-58-10						
	i	8-00-20						
	eL	8-01.5						
	M_{1N}	8-05.0	17		6			
	M_{1E}	8-05.3	17	4				
	L_N	8-11	12		1			
	F	8-48						

11 10 Diverse

DOM. OBS. No. 67
5,000—4-29

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.	Feb. 26, 1929
II	6.9		120	14:1	EW		Feb. 2, 1929
17	12.0		250	20:1	EW	44 mm.	Jan. 26, 1929
23	12.0		250	20:1	NS	43 mm.	Jan. 31, 1929
D							
D							
W	7.0		160	11:1	Vert.		July 5, 1929

From August 1st, 1929, *to* August 2nd, 1929 *No.* 46

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.	
3591 Aug. 1	e	0-00 to						
	F	0-03						
3592 Aug. 1	e_N	5-29.5						
	e_E	5-30.3						
	e	5-39.3						
	eL_E	6-00						
	eL_N?	6-08						
	L_E	6-16	20	2	2·			
	L_N	6-30	15		1-			
	F	7-07						
3593 Aug. 1	e_N	9-04.6						
	e_N	9-07.8						
	eL_E	9-10						
	eL_N	9-12						
	L_E	9-16	17	1-				
	L	9-25	15	1	1-			
	F	9-53						
3594 Aug. 2	e	18-13 to						Trace only
	F	18-17						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From August 2nd, 1929, to August 5th, 1929 No. 47

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h. m s	s	μ	μ	μ	km.	
3595	eE	13-14.4						
Aug.	eE	13-17.3						
3	eE	13-23.0						
	eLN	13-32						
	LE	13-44	24	5				
	L	13-48	17	1	1			
	F	14-45 ca.						
3596	eE?	15-16.4						
Aug.	e	15-26.0						
3	eE	15-40.5						
	eL	15-54						
	LN	15-58	20		1			
	LE	16-01	20	3				
	LN	16-05	17		1			
	LE	16-07	17	1				
	LE	16-16	15	1				
	LN	16-20	15		1			
	F	17-27						
3597	e	19-04.3						
Aug.	eL	19-12						
3	L	19-22	15	5	4			
	L	19-25	15	5	6			
	L	19-42	12	1-	1-			
	F	20-41						
3598	e	9-23.6						
Aug.	eL	9-27						
4	LE	9-30.5	20	2				
	L	9-34	15	1-	1-			
	F	9-52						
3599	e	15-25						
Aug.	eL	15-29						
4	L	15-33	17	1-	1-			
	F	15-49						
3600	eN	22-45						
Aug.	eE	22-49						
4	eL	23-04						
and	LN	23-14	20		1			
Aug.	LE	23-23	15	1-				
5	F	0-09						
3601	L	14-43.6 to						Short period L waves
Aug. 5	F	14-45						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From August 5th, 1929, *to* August 12th, 1929 *No.* 68

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3602	eL	1-48						
Aug.	L_E	1-52	20	1				
6	L	1-55	12	1-		1		
	L_N	2-01	(10)			1-		
	F	2-10						
3603	eL_E	7-37						
Aug.	L_N	7-40	(15)			1-		
7	F	7-52						
3604	e	13-32						Early phases lost while changing records.
Aug.	e_N	13-38						
8	e_E	13-45						
	eL	13-52						
	L_E	13-55	30	18				
	L_N	13-58	30			6		
	L_E	13-59	24	5				
	L_N	14-03	24			9		
	L_E	14-12	(15)	5				
	L_E	14-20	17	3				
	L_N	14-30	15			1		
	F	15-37						
3605	e?	3-11						
Aug.	eL_N	3-15						
9	F	3-23						
3606	L	14-54 to	20	1-		1-		
Aug. 9	F	15-00						
3607	eL_E	19-32						No trace on NS component.
Aug.	L_E	19-39	30	1				
9	F	19-55						
3608	e	18-48						
Aug.	e_N	18-57						
11	L_N	19-12	20			1-		
	L	19-16	17	1-		1-		
	L_E	19-23	15	1-				
	F	19-36						
3609	O	11-24-45					380	Felt throughout southern Ontario and States of New York, Ohio and Pennsylvania.
Aug.	eP	11-25-38						
12	iS	11-26-20						
	M	11-26-24	(2)	(40)		(31)		
	L	11-26-47	(2)	(7)		(6)		
	F	11-46						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From August 12th, 1929 *to* August 15th, 1929 *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.	
3610 Aug. 13	eL	15-20						
	L_N	15-24	15		1-			
	F	15-35						
3611 Aug. 13	e	19-32						
	eL_N	19-37						
	L	19-39	15	1	1			
	F	19-48						
3612 Aug. 14	e_N	2-57.6						
	eL_N?	3-11						
	L_N	3-26	24		1			
	L	3-34	17	1-	1-			
	F	4-23						
3613 Aug. 14	e_N	13-44.5						
	eL_E?	13-45.4						
	L_E	13-48	12	1-				
	F	13-56						
3614 Aug. 14	e_E	14-41-40						
	eL	14-47						
	L_N	14-50	10		1-			
	L_E	14-51	10	1-				
	eL_N?	14-57						Probably another shock
	L_N	14-59	10		1-			
	L_E	15-01	10	1				
	F	15-52						
3615 Aug. 14	e_N	15-54						
	eL	15-57						
	L	16-00	10	1-	1-			
	F	16-21						
3616 Aug. 14	O	(19-03-30)					(4020)	
	ePE?	19-10-50						
	e	19-12-18						
	eS	19-16-38						
	eL	19-22						
	L	19-27	10	2	1			
	L	19-30	8	1	1-			
	F	20-24						
3617 Aug. 15	O	19-56-13					4400	
	iP	20-04-00						
	iPR_{2N}	20-05-41						
	iS	20-10-10						
	eSR_{1N}	20-12.7						
	iSR_{2E}	20-13-11						
	eL_E	20-14.5						
	eL_N	20-15						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From August 15th, 1929 *to* August 18th, 1929 *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.	
3617	M_{1E}	20-18-45	17	35				
cont'd.	M_{1N}	20-19.8	13		7			
Aug.	M_{2E}	20-20.0	15	13				
15	L_E	20-36	?					
	L_N	20-40	12		1-			
	F	22-00						
3618	e_N	10-38.6						
Aug.	e	10-43.0						
16	eL	10-47						
	L_N	10-49	15		1			
	F	11-05						
3619	e	22-11						
Aug.	eL?	22-44						
16	L	23-09	17	1-	1-			
and	L	23-56	10	1-	1-			
17	F	0-12						
3620	O	23-40-26					3920	
Aug.	iP	23-47-38						
17	ePR_2	23-48-52						
	iS	23-53-21						
	eL_N	23-58.5						
Aug.	eL_E?	23-59						
18	M_{1E}	0-05.5	15	21				
	M_{1N}	0-05.7	15		24			
	M_{2E}	0-08.5	15	22				
	M_{2N}	0-09.0	12		14			
	L	0-16	Irr.					
	L	0-31	12	1	1			
	F	2-19ca.						
3621	eL?	6-50						
Aug.	L	6-54	17	1-	1-			
18	F	7-11						
3622	e_N?	8-54						
Aug.	e_E	9-00.7						
18	e	9-05.0						
	e_E	9-12.2						
	eL	9-28						
	L	9-40	20	2	2			
	L	9-46	17	1	1			
	LN	9-52	15		1			
	LE	9-56	15	1				
	F	11-07						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From August 18th, 1929 *to* August 22nd, 1929 *No.* 51

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.	
3623 Aug. 19	e_N	3-02.0						
	e	3-08-07						
	e	3-11-15						
	e_N	3-18.0						
	e_E	3-26.0						
	e_E	3-30.5						
	e_{L_E}	3-35						
	L_E	3-42	20	4				
	L_N	3-44	20		3			
	L_E	3-51	17	3				
	L_N	3-53	17		5			
	L_E	3-58	15	3	3			
	L_N	4-23	15	1-				
	F	4-29	15		1			
		5-11ca.						
3624 Aug. 19	e	18-02						
	eL?	18-08						
	F	18-21						
3625 Aug. 19	e_N?	21-09.6						
	e_N	21-32.7						
	eL?	21-38						
	L_E	21-43	20	1				
	L_N	21-46	20		1			
	L_E	21-55	17	1				
	L_N	21-57	15		1-			
	F	22-31						
3626 Aug. 20	e_N	17-03.3						
	e_N	17-06-30						
	eL_N?	17-37						
	L_N	17-40	20		1			
	F	Lost in next quake record.						
3627 Aug. 20	0	17-37-04					3840	
	eP_N	17-44-10						
	ePR_2	17-45-32						
	iS	17-49-48						
	eL	17-54.5						
	M_{1N}	18-00.2	15		7			
	L_N	18-02.0	15		1			
	F	19-10						
3628 Aug. 22	eL_N	2-14						No trace on EW component.
	L_N	2-16	20		1			
	F	2-24						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From August 22nd, 1929 *to* August 31st, 1929 *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.	
3629	eE	8-05.3						
Aug.	eL	8-32						
22	L	8-44	17	1	1			
	LE	8-51	17	1-				
	LN	8-55	15		1-			
	F	9-54						
3630	e	16-55-15						
Aug.	e	17-07						
22	eLE	17-09.5						
	eLN	17-13						
	LE	17-15	20	1				
	LN	17-17	20		1			
	LN	17-19	15		1			
	F	17-42						
3631	i	19-15-02						
Aug.	e	19-27.0						
28	eL?	19-32						
	M_1	19-43	19	10	3			
	L_N	19-52	17		2			
	L_E	19-55	17	1.				
	L_N	19-59	15		1			
	F	21-22						
3632	eL	20-45						
Aug.	L	20-57	17	1-	1-			
29	L_N	21-03	15		1-			
	F	21-12						
3633	eL	8-08						
Aug.	L_N	8-14	17	1-	1-			
30	L	8-21	?					
	F	8-31						
3634	eL	19-50						
Aug.	L	19-55	20	2	1			
31	F	20-13						

W W Doxsee

DOM. OBS. No. 67
5,000—1-29

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. $h = 83$m.

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.	r	v	ϵ	COMP.	1" tilt	DETERMINED
I	5.2		120	2:1	NS	displ'mt.	Feb. 26, 1929
II	6.9		120	14:1	EW		Feb. 2, 1929
17	12.0		250	20:1	EW	44 mm.	Jan. 26, 1929
23	12.0		250	20:1	NS	43 mm.	Jan. 31, 1929
D							
D							
W	7.0		160	11:1	Vert.		July 5, 1929

From September 1st, 1929, *to* September 2nd, 1929 *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.	
3635 Sept. 1	e_E	16-19.7						
	e_N	16-22.2						
	e_E	16-24.2						
	e_N	16-49						
	eL_E?	16-54						
	L_E	16-58	20	1				
	L_N	17-01	17		1			
	L	17-06	17	2	1			
	L	17-18	15	1	1			
	L	17-33	13	1-	1-			
	F	17-49						
3636 Sept. 2	e	11-38.6						
	e	11-43.1						
	e	11-50						
	eL?	12-16						
	L_E	12-25	17	1				
	L_N	12-30	17		1			
	L_E	12-38	15	1				
	L_N	12-40	17		2			
	F	13-16ca.						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From September 2nd, 1929, *to* September 9th, 1929, *No.* 54

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3637 Sept. 3	el_N?	12-57						EW component not operating at time of quake.
	L_N	13-05	(24)	(4)				
	F	13-17+						
3638 Sept. 4	e_E	22-56						
	e_N	23-00						
	L	23-03	20	?	1			
	F	23-17						
3639 Sept. 5	e_E	10-18-18						
	e_N	10-18-24						
	eL?	10-19.0						
	M_{1N}	10-19-36	10		7			
	M_{2N}	10-20-00	8		5			
	L_E	10-20-15	8	2				
	F	10-26						
3640 Sept. 8	e_N	11-00-21						
	e_E	11-00.6						
	eL?	11-01						
	L_E	11-02-16	10	2				
	L_N	11-02-18	11		3			
	L_E	11-04-34	8	1				
	F	11-36						
3641 Sept. 8	e_N	12-07.5						
	L	12-09	10	1-	1-			
	F	12-14						
3642 Sept. 8	e_N	14-15-50						
	eL?	14-16.4						
	L_N	14-17-45	8		1			
	L_E	14-20-00	8	1				
	F	14-33						
3643 Sept. 8	e	15-01 to						Trace only
	F	15-08						
3644 Sept. 8	eL?	20-33						
	L_N	20-34.0	8		1-			
	L_E	20-36.5	8	1-				
	F	20-46						
3645 Sept. 9	e	1-59-41 to						Very short period waves of small amplitude. Tremor felt at Manivaki, Quebec.
	F	2-00.6						
3646 Sept. 9	eL_N	4-55						No trace on EW component.
	L_N	5-00	15		1-			
	F	5-06ca.						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From September 9th, 1929, *to* September 17th, 1929 *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.	
3647 Sept. 9	e	18-44.3 to						Short period waves of small amplitude. Felt at Burbidge, Quebec.
	F	18-44.7						
3648 Sept. 10	e_N?	20-55.4						
	e_N	21-04.0						
	eL?	21-37						
	L	21-45	20	1	1			
	F	22-37						
3649 Sept. 11	eL?	23-14						
	L_E	23-19	20	1				
	L_N	23-22	20		1			
	L_E	23-29	15	1-				
	L_N	23-37	15		1-			
	F	23-44						
3650 Sept. 14	eL?	3-07						
	L_E	3-14	20	1				
	L_N	3-16	20		1			
	L	3-18	17	1	1			
	F	3-50						
3651 Sept. 15	eL?	13-44						
	L	13-56	20	1-	1			
	F	14-18						
3652 Sept. 16	i_E	4-00-11						
	e_E	4-03.3						
	e_N	4-04.4						
	L_E	4-08	?					
	L_N	4-13	?					
	F	4-26						
3653 Sept. 17	e	5-48-40						
	eL	5-53						
	L_N	5-55	17		3			
	L	5-56	15	1	1			
	F	6-28						
3654 Sept. 17	O	19-17-27					3930	
	eP	19-24-40						
	i	19-25-04						
	iS_E	19-30-23						
	i_N	19-30-35						
	eL_N	19-34.0						
	eL_E	19-34.5						
	M_{1Z}	19-35.8	?					
	M_{2Z1N}	19-36.6	?					
	M_{1E}	19-37.8	(10)	(210)				
	M_{3Z}	19-39.5						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

September 17th, 1929, ——— September 24th, 1929 56

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

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
3654 Sept. 17 cont'd.	L_E	19-46.0 s	8	21	μ	μ	km.	
	L_E	19-55.8	12	42				
	L_E	20-06.5	15	25				
	L_E	20-19.0	15	11				
	LR_{2E}?	22-26	17					
	F	23-41						
3655 Sept. 18	L	16-03.6 to						
	F	16-09						
3656 Sept. 18	e_E	17-16.4						
	e_N	17-17.3						
	eL?	17-19.3						
	F	17-28						
3657 Sept. 21	e	16-46.6						
	e_N	16-47.7						
	eL	16-51						
	L	16-53	15	3	4			
	L_N	16-55	10		1			
	F	17-26						
3658 Sept. 22	e_N	16-59.5						
	eL_E?	17-00.5						
	L_N	17-04	12		1-			
	F	17-14						
3659 Sept. 22	e?	21-28.0						
	e	21-29.8						
	L_E	21-32	15	1-				
	F	21-36						
3660 Sept. 23	e	16-25 to						Irregular waves of small period and amplitude.
	F	16-42						
3661 Sept. 23	e_N	23-35						
	eL_E?	23-37						
	F	23-41						
3662 Sept. 23	i	23-46-38						Local?
	F	23-50ca.						
3663 Sept. 24	e_N	2-20.5						
	eL_E?	2-25						
	L_E	2-36	17	1-				
	L_N	2-43	17		1-			
	L_E	2-50	15	1-				
	F	3-15						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

September 24th, 1929, ~~September~~ 28th, 1929 57

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

No. and Date	Phase	Time	Period	Amplitude A_E	Amplitude A_N	Amplitude A_Z	Distance	Remarks
3664 Sept. 24	L	17-58 s to	?s	1-	1-	μ	km.	
	F	18-02						
3665 Sept. 26	i	5-11-11						
	eL$_N$?	5-24						
	eL$_E$?	5-28						
	L	5-40	15	1	1-			
	L$_E$	6-00	13	1				
	F	7-12ca.						
3666 Sept. 26	e$_E$?	8-25						
	e$_N$	8-43.5						
	L$_E$	8-51	20	1-				
	L	9-01	17	1-	1-			
	F	9-28						
3667 Sept. 26	e	12-49 to						
	F	13-01						
3668 Sept. 26	e	15-48.6						
	eL	15-56						
	L$_E$	15-58	15	1				
	L$_N$	16-00	12		1			
	F	16-28						
3669 Sept. 26	e	19-34.4 to						
	F	19-41						
3670 Sept. 26	eL?	20-17.7						
	L$_E$	20-20	8	1-				
	F	20-29						
3671 Sept. 27	O	23-16-07					3580	
	eP$_E$	23-22-54						
	iS$_N$	23-28-16						
	eN	23-30-26						
	eL$_N$	23-31.9						
	eL$_E$	23-32.2						
	M$_{1N}$	23-34.4	13		83			
	M$_{1E}$	23-35.5	10	33				
	M$_{2E}$ lZ	23-39.7	8	24		?		
Sept. 28	L$_N$	23-55	12		3			
	L$_N$	0-33	20		1			
	F	0-57						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From September 28th, 1929 *to* September 30th, 1929 *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.	
3672 Sept. 28	e	22-42.8 to						
	F	22-52						
3673 Sept. 29	eL?	19-43 to						
	F	19-49						

W W. Nocoee

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'mt.	Feb. 26, 1929
II	6.9		120	14:1	EW		Feb. 2, 1929
17	12.0		250	20:1	EW	44 mm.	Sept.10, 1929
23	12.0		250	20:1	NS	43 mm.	Jan. 31, 1929
D							
D							
W	6.0		160	7:1	Vert.		Sept.18, 1929

From October 1st, 1929 *to* October 2nd, 1929 *No.* 59

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.	
3674 Oct. 1	e F	12-29 to 12-39						Trace only
3675 Oct. 1	L_N F	20-59.6 to 21-01	12		1-			
3676 Oct. 1	e F	22-19 to 22-23						
3677 Oct. 2	L F	0-53 to 1-05	(20)	1-	1-			
3678 Oct. 2	e_N e_N L_N F	9-43.1 9-47.5 10-17 10-43+	17		1			Clock of EW component stopped during registration of this and the four following quakes.
3679 Oct. 2	e_N eL_N? L_N F	10-43.9 10-51 10-57 11-11 ca.	20		1			

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 2nd, 1929, *to* October 6th, 1929 *No.* 60

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3680	e_N	11-27.4						
Oct.	e_N?	11-35.7						
2	F	11-58						
3681	eL_N?	4-14						
Oct.	L_N	4-18	15		1			
4	F	4-26						
3682	eL_N?	10-13.4						
Oct.	L_N	10-14.0	13		2'			
4	L_N	10-14.6	10		1-			
	F	10-22						
3683	e_N	3-19.0						
Oct.	eL	3-51						
4	L_N	3-56	20		2			
	L_E	3-57	20	4				
	L_E	4-06	17	2				
	L_N	4-07	17		1			
	L_E	4-12	15	1				
	F	4-57						
3684	O	16-59-57					7820	
Oct.	eP	17-11-09						
5	e_N	17-15.5						
	iS_E	17-20-20						
	ePS_N	17-20-33						
	e_N	17-25.2						
	e_E	17-25.8						
	e_N	17-28.6						
	eL	17-32.5						
	L	17-39	20	5	5			
	M_E	17-45	20	7				
	L_E	17-52	15	2				
	M_N	17-52.7	15		8			
	F	18-46						
3685	e_N	6-07-49						Clock of Milne-Shaw EW component stopped at time of this and the three following quakes.
Oct.	e_N	6-11-38						
6	e_N	6-14.5						
	eL_N?	6-20.4						
	L_N	6-24	15		2			
	F	7-06						
3686	O	7-51-32					7730	
Oct.	eP	8-02-39						
6	iS	8-11-45						
	e	8-20.4						
	eL	8-24.7						
	eM_{EZ}	8-29						
	M_{1N}	8-30.5	(24)		(22)			
	F	Lost in next quake						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 6th, 1929 *to* October 10th, 1929 *No.* 61

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.	
3687	e_Z	8-30-50						Record superimposed
Oct.	e_N?	8-34.8						on that of No. 3686
6	L	8-43	15	?	4			
	L_E	8-50						
	M	9-00	12		7			
	L	9-17	12		3			
	L_N	9-22	12		4			
	F	11-23						
3688	e_N	14-03.6						Part of record lost
Oct.	eL_N	14-12	20		1			while changing rec-
6	L_E	14-48	15	1-				ord paper.
	F	15-09						
3689	e_N	15-34.8						
Oct.	e_E	15-36.5						
7	e_N	15-42.6						
	L_E	16-05	20	1				
	L	16-09	17	1	1			
	L_E	16-24	15	1-				
	F	17-05						
3690	e_E	17-35.8						
Oct.	e_E	17-41-30						
8	e_N	17-43.6						e_N at 18-09 is sinu-
	i	17-45-24						soidal of small am-
	i	17-52-06						plitude and period 15
	eL_N	18-03						sec.
	e_N	18-09						
	eL_E?	18-11						e_N at 18-13.4 is ir-
	e_N	18-13.4						regular and might be
	L_E	18-17	20	7				interpreted as eL
	L_N	18-21	17		3			
	M_E	18-22	17	8				L at 19-29 may be a
	M_N	18-25	17		6			W phase.
	L_N	18-30	15		3			
	L_E	18-33	16	6				
	L	18-49	15	2	2			
	L	19-29	20	1	1			
	F	20-03						
3691	eL_N?	11-42						
Oct.	L_E	11-56	20	1-				
10	L_N	12-00	17		1-			
	L_E	12-02	17	1-				
	F	12-15						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 10th, 1929 *to* October 19th, 1929 *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.	
3692 Oct. 14	e	10-26-53						
	e	10-31.0						
	e_N	10-36-19						
	eL_N	10-38						
	M_{1N}	10-40.5	20		15			
	M_{1E}	10-44.5	19	14				
	M_{2N}	10-45	15		13			
	L_N	10-57	13		1			
	L_E	11-00	12	2				
	L_N	11-20	12		1-			
	F	12-20						
3693 Oct. 15	e_N	10-39						Sinusoidal waves of short period and small amplitude.
	e_E	10-42						
	F	10-55						
3694 Oct. 16	L_E	19-18 to						Sinusoidal L waves of small amplitude. On EW component only.
	F	19-29						
3695 Oct. 16	e_E	21-01.8						
	eL_E	21-17						
	L_N	21-26						
	L_E	21-28	17	2				
	L_N	21-37	15		1			
	F	22-15						
3696 Oct. 16	L_E	22-59						Trace and on EW component only.
	L_E	23-06	17	1-				
	F	23-11						
3697 Oct. 18	eL?	0-29						
	L	0-30	20	?	1			
	F	0-53						
3698 Oct. 19	0	10-12-56					7420	
	iP_N	10-23-46						
	iS	10-32-37						
	i_N	10-32-55						
	SR_{1E}	10-37-43						
	e_N	10-39.5						
	SR_{2E}	10-40-15						
	e_N	10-42						
	eL_E	10-43.3						
	eL_N	10-45						
	M_N	10-54	20		17			
	L_E	11-07	15	4				
	F	13-25						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From October 19th, 1929 *to* October 31st, 1929 *No.* 63

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3699	e	20-40.4						L waves of small
Oct.	L_E	20-48						amplitude.
19	L_N	20-52						
	F	21-12						
3700	L	4-04						Trace only.
Oct.		to						
20	F	4-15						
3701	e	16-24.8						
Oct.	eL	16-34						
20	L_N	16-39	17		1			
	F	16-59						
3702	e_N	11-02						
Oct.	e_N	11-09						
21	L_N	11-32	20	1	1			
	F	12-07						
3703	e	20-00						
Oct.	L	20-05	?	1-	1-			
23	F	20-22						
3704	eL_E?	5-55						Not recorded by
Oct.	L_E	6-01	15	1-				NS component.
24	F	6-14						
3705	e_N	7-03						
Oct.	e_N?	7-12						
24	eL	7-26	40					
	L_E	7-33	24	3				
	L_N	7-36	24		3			
	L_E	7-40	17	1				
	L_N	7-46	17		2			
	F	8-16						
3706	e	21-22						
Oct.	L_E	21-28	(20)	1-				
24	L_N	21-31	12		1-			
	F	21-46						
3707	eL_E?	23-05						Not recorded by
Oct.	L_E	23-12	20	1				NS component.
28	F	23-18						
3708	L	6-42	?	1-	1-			
Oct.	L_E	6-53	20	1-				
29	F	7-17						

W W Hosser

DOM. OBS. No. 67
5,000—1-29

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.	Feb. 26, 1929
II	6.9		120	14:1	EW		Feb. 2, 1929
17	12.0		250	20:1	EW	44mm.	Sept.10, 1929
23	12.0		250	20:1	NS	43mm.	Jan. 31, 1929
D							
D							
W	6.0		160	7:1	Vert.		Sept.18, 1929

From November 1st, 1929 *to* November 5th, 1929 *No.* 64

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.	
3709	e	7-17						Trace only
Nov.	L_E	7-34						
1	F	7-42						
3710	L	11-29	17	1-	1-			
Nov.	L	11-56	15	1-	1-			
3	F	12-09						
3711	e	16-30						
Nov.	L	16-38	20	1-	1-			Sinusoidal L waves
4	L_N	16-50	17		1-			
	L_E	16-53	17	1				
	F	17-20						
3712	e_N	11-58-44						
Nov.	e_N	12-08.5						
5	e	12-15.5						
	eL?	12-41						
	L	12-50	20	1	1			
	F	13-19						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From November 5th, 1929, to November 15th 1929, No. 65

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.	
3713 Nov. 6	eL	6-03						
	L_N	6-03-45	8		1			Local?
	F	6-09						
3714 Nov. 8	iS?	3-35-10						
	e	3-38.6						
	eL_E?	3-40.2	30					
	eL_N?	3-42.0	(24)					
	L_E	3-42	Irr.					
	L_N	3-45.5	24		4			
	L_N	3-46.7	17		4			
	F	4-16						
3715 Nov. 9	O	1-40-18						
	iP	1-50-37					6850	
	iS	1-58-58						
	eL	2-10						
	L_E	2-14.5	Irr.					
	L_N	2-19	15		3			
	L_N	2-35	13		1-			
	F	3-49						
3716 Nov. 10	L	9-31						
	L_N	9-39						L waves of small amplitude.
	F	9-49						
3717 Nov. 11	e	12-26 to						Trace only.
	F	12-37						
3718 Nov. 13	e_E?	1-22						
	eL_E?	1-31						
	L_N	1-44	20		1			
	L_E	1-46	20	1				
	F	2-17						
3719 Nov. 15	e_N?	19-10-03						
	e	19-10-19						
	e_N	19-17.0						
	e_E	19-18-11						
	i_N	19-20-03						
	i_E	19-22-43						
	i	19-26-30						
	e_E	19-31-00						
	eL?	19-37.4						
	eL?	19-43.0						
	M_{1E}	19-51.5	19	66				
	M_{1N}	19-55	19		74			
	M_{2N}	20-18	16		21			
	M_{2E}	20-24	17	19				
	F	23-25						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From November 15th, 1929, to November 23rd, 1929 No. 66

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.	
3720	e_N	11-08						
Nov.	eL?	11-10						
16	L_E	11-12	10	1-				
	F	11-37						
3721	e	4-04.4						Large amplitude micros superimposed on record.
Nov.	e_N	4-14.3						
17	e	4-21.2						
	e_E?	4-31						
	eL_E	4-39.5						
	eL_N?	4-40.5						
	L_E	4-45						
	M_E	4-48	24	36				
	M_N	4-49	24		32			
	L_E	5-04	20	15				
	L_N	5-06	20		10			
	L_E	5-28	17	6				
	L_N	5-30	?					
	F	6-05						
3722	O	20-32-10					1420	Felt in Eastern Canada and NE States of United States.
Nov.	iP	20-35-14						
18	iPR_1	20-35-22						
	iS_N	20-37-43						
	iL_E?	20-38-03						
	M_E	20-40.5	?					
	M_N	20-41.0	?					
	M_E	20-41.5	?					
	L_E	22-25	60					
	LR_E?	23-37						
	F	0-30						
3723	iS_N?	23-07-44						Aftershock of 3722
Nov.	eL	23-08.2						
18	M_N	23-09.4	?					
	M_E	23-11.1	?					
	F	23-19						
3724	e_N	2-07.4						Aftershock of 3722
Nov.	L_N	2-09	8		2			
19	L_E	2-10.5	(12)	1				
	F	2-14						
3725	e	0-23-00						
Nov.	i	0-24-18						
23	i	0-30-04						
	e	0-40-19						
	i	0-43-02						
	eL_E?	1-05						
	L	1-15	20	5	2			
	LE	1-25	17	1				
	L_N	2-10	20		1			
	F	2-49						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From November 23rd, 1929 *to* November 30th, 1929 *No.* 67

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3726 Nov. 27	e	8-18 to						Trace only.
	F	8-28						
3727 Nov. 28	e	8-44 to						Trace only.
	F	8-54						
3728 Nov. 28	e	20-07 to						Trace only.
	F	20-14						

20 20 Doree

DOM. OBS. No. 67
5,000—1-29

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.	r	V	ϵ	COMP.	1" tilt	DETERMINED
I	5.2		120	2:1	NS	displ'mt.	Feb. 26, 192?
II	6.9		120	14:1	EW		Feb. 2, 1929
17	12.0		250	20:1	EW	44 mm.	Dec. 5, 1929
23	12.0		250	20:1	NS	43 mm.	Jan. 31, 1929
D							
D							
W	6.0		160	7:1	Vert.		Sept. 18, 1929

From December 1st, 1929, *to* December 6th, 1929 *No.* 68

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.	
3729 Dec. 3	e	8-41						Irregular trace.
	e_E	8-46						
	F	9-02						
3730 Dec. 4	e	6-47						
	L_N	6-53	20		1-			
	F	7-08						
3731 Dec. 4	L_N	8-15 to 8-24	17		1-			
	F							
3732 Dec. 5	e_E	15-37.9 to 15-38						Local.
	F							
3733 Dec. 6	e	12-06.0						
	L	12-12.4	24					
	L_N	12-33	20		2			
	L_E	12-40	17	1				
	F	13-08						

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SEISMOLOGIC STATION, DOMINION OBSERVATORY

From December 6th, 1929, *to* December 13th, 1929 *No.* 69

No. and Date	Phase	Time	Period	Amplitude			Distance	Remarks
				A_E	A_N	A_Z		
		h m s	s	μ	μ	μ	km.	
3734 Dec. 6	e?	17-06						
	i_N	17-11-45						
	i_E	17-13-00						
	e_N	17-15.0						
	i_E	17-20-44						
	e_E	17-24.7						
	L	17-46	17	3	4			
	L	18-03	17	2	2			
	F	19-38						
3735 Dec. 6	e?	20-40.2						
	e	20-46-04						
	i_E	20-47-38						
	e	20-55-08						
	e_E	20-59-37						
	eL?	21-02						
	L_N	21-19	20		4			
	L_E	21-21	20	4				
	L_N	21-41	?					
	F	23-10						
3736 Dec. 9	i	6-53-36						
	i	7-12-29						
	e	7-28.6						
	eL_E	7-51	44					
	L_E	8-03	24	14				
	L_N	8-06	20		11.			
	L_N	8-28	15		3			
	L_E	8-50	15	2				
	F	9-50						
3737 Dec. 10	L_N	13-55 to 14-12						On NS component only.
	F							
3738 Dec. 10	e	14-42						
	L_N	14-45	10		1-			
	F	14-51						
3739 Dec. 11	e	7-45.4 to 7-55						Trace only
	F							
3740 Dec. 12	L	0-40 to 0-47	12	1-	1-			
	F							
3741 Dec. 13	L	5-19						
	L_N	5-25	15		1-			
	F	5-35						

DOM. OBS. No. 68
20,000—12-28

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From December 13th, 1929, *to* December 17th, 1929 *No.* 70

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.	
3742	e_E?	9-06						
Dec.	L_E	9-28	17	1				
13	L_N	9-30	17		1-			
	F	9-51						
3743	e	11-26						
Dec.	L_E	11-28	15	1-				
13	F	11-36						
3744	e	4-59						
Dec.	L	5-08	12	1-	1-			
14	F	5-30						
3745	e	22-36						
Dec.	L	22-40	15	1-	1-			
14	F	22-50						
3746	L	23-03	20	1-	1-			
Dec.		to						
14	F	23-12						
3747	e_N?	1-39.5						
Dec.	eS	1-44-24						
15	L	1-49	18	3	4			
	F	2-30						
3748	L_N	13-07						Trace only.
Dec.		to						
15	F	13-12						
3749	L	16-12						
Dec.	L_N	16-15	15		1			
15	F	16-30						
3750	L	1-58	(20)	1-	1-			
Dec.		to						
16	F	2-21						
3751	eL	12-17						
Dec.	L_E	12-29	20	2				
16	L_N	12-32	20		2			
	F	13-04						
3752	O	10-58-38					7320	Amplitudes are doubtful as the lower turning points at the maximum were beyond the limits of the record.
Dec.	eP	11-09-23						
17	i	11-09-34						
	iPR_2	11-13-33						
	iS	11-18-08						
	i	11-22-28						
	iSR_2	11-25-42						
	iL?	11-31.5						
	M_E	11-36.3	19	(985)				
	M_N	11-40.2	19		(900)			
	F	16-18						

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20,000—12-28

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OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From December 17th, 1929, *to* December 20th, 1929 *No.* 71

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.	
3753 Dec. 17	L	18-17						
	L	18-23	15	1-	1-			
	F	18-49						
3754 Dec. 17	L_E	21-40 to						L waves of small amplitude on EW component only.
	F	21-46						
3755 Dec. 17	eL?	22-21						
	L	22-32	20	1	1			
	F	23-05						
3756 Dec. 18	eL?	5-34						
	L_N	5-41	15		1			
	F	5-55						
3757 Dec. 18	e_N	7-27						
	eL_E?	7-41						
	L_E	8-05	15	1				
	L_N	8-08	17		1			
	F	8-32						
3758 Dec. 18	eN	13-25						
	L_N	13-39	20		2			
	L_E	13-40	17	2				
	F	14-10ca.						
3759 Dec. 18	L	19-55 to						Trace only.
	F	20-07						
3760 Dec. 19	e	10-43						
	eL?	10-55						
	L	10-59	15	1-	1-			
	F	11-39						
3761 Dec. 19	eL?	20-00						
	L	20-05	20	1	1			
	F	20-45						
3762 Dec. 20	e	7-53 to						Irregular waves of short period
	F	7-58						
3763 Dec. 20	eL?	8-20						
	L_N	8-21	10		1			Local?
	F	8-29						
3764 Dec. 20	e	10-39						
	L	10-41	13	1	1			Local?
	F	11-02						

DOM. OBS. No. 68

15,000—12-29

CANADA

OTTAWA, CANADA

SEISMOLOGIC STATION, DOMINION OBSERVATORY

From December 20th, 1929, *to* December 31st, 1929 *No.* 72

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.	
3765	e	5-10						Only a trace on NS
Dec.	L	5-20	17	1-	1-			component.
21	F	5-43						
3766	e	11-41						
Dec.	e_E	11-46						
21	eL	11-54						
	L_N	12-04	17		1			
	F	12-32						
3767	e_N	5-23						
Dec.	L	5-31	17	2	1			
24	F	6-30						
3768	L	9-24						Trace only.
Dec.		to						
24	F	9-31						
3769	e	2-40						
Dec.	L_E	2-49	17	1-				
28	F	2-55						
3770	eL?	12-35						
Dec.	L	12-48	20	1	1			
28	L	12-57	17	1	1			
	F	13-37						
3771	e	11-42						
Dec.	eL	11-48						
30	L_E	11-52	15	3				
	F	12-08						
3772	e	1-31						
Dec.	e	1-44						
31	L	1-55	24	1	1			
	F	3-02						
3773	e	5-28						
Dec.	eL_N?	5-45						
31	L_E	5-53	20	2				
	F	6-25						

ERRATA:- Earthquakes Nos. 3382 and 3383 should have been reported under date of March 9th, 1929 instead of March 10th, 1929.

W. W. Dossee