

OTTAWA

Earthquake Station, Dominion Astronomical Observatory



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

TIME : Mean Greenwich, midnight to midnight.

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

From January 1, to January 31, 1918. No. 1.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
817	Jan 4	eS?N eLN L LN F	4-43-44 4-46.5 4-49 4-54 to 5-20	24					Irregular periods mingled with micros.
818	" 13	eD ON eLN M F	0-00-00 0-00-38 0-01-04 0-03.6 0-10	3 4 6 7					
819	" 25	O PE e eLE L F	1-21-32 ca 1-28-20 1-35.8 1-37-24 1-41 2-hr.	2 2 28 22				3600 ca.	Δ from oL - P. No trace of S. Heavy micros.
820	" 30	O iP iS i eL L LN LN F	21-18-46 21-30-36 21-40-24 21-42-12 21-56.5 22-05 22-09 22-20	28 18 15 15 22-35				8560	

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TIME : Mean Greenwich, midnight to midnight.

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

From February 1st., 1918. *to* February 13th., 1918. No.2.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
821	Feb. 3.	eLE	15-02 to 15-20	17	Heavy micros on NS. Amplitude of waves very small.				
822	" 4.	O eSN? i eL L F	20-39 ca. 20-50.1 20-52-07 20-53.5 20-55 21 hr.	2 7	Press report from Revelstoke.			3100 ca.	
823	" 12.	eLN MN LN F	1-41.9 1-42 to 1-46 1-55 to 1-58 2-00	18 10					
824	" 12.	e eLN F	19-34-41 19-35.1 19-40	2.5 12					
825	" 12	eLN	19-47 to 19-50	10					
826	" 12	eN eL MN F	20-20-42 20-21.3 20-22 20-30	3 12 12					
827	" 13	eL	3-52 to 4-05	20	Δ of this quake appears to be of the same order as No. 828.				
828	" 13	O PE? PR1 PR2 S SR1 SR2 L LR1	6-07.8 6-22.4 6-26.8 6-29.7 6-34.7 6-42.7 6-47 7-00.4 8-16		Amoy, China. These readings are from the Deformation Instrument with a time scale of 17 mm. per. hr.			12000	

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TIME : Mean Greenwich, midnight to midnight.

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

From February 13, 1918 *to* February 28, 1918. No. 3.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km. *	
828	Feb. 13.	eL L L L L F	7-02 7-09 7-14 7-25 7-35 8-hr.	30 24 16 14 14	These readings are from the record of the Horizontal Seismographs				The earlier phases are lacking on this instrument Heavy Micros
829	" 18.	eL	16-57 to 17-04	irreg	Very small amplitude.				
830	" 19	LE	17-22 to 17-51	20 15					
831	" 20.	L	6-54 to 6-57	16					
832	" 23.	eLE LE LE LE LE F	19-02 19-09 19-13 19-20 19-27 19-35	20 17 16 15 15					
833	" 24.	eL	For about twenty minutes beginning at about 23-10	17					The shutter did not work while the record of this earthquake and No. 834. was being made and the time marks were missing. The amplitude of the waves for both the quakes is very small.
834	" 25.	eL	For approximately half an hour beginning at about 7 hr.	17					
835	" 27	eLE LE F	4-18 4-26 4-35	18 16					

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TIME : Mean Greenwich, midnight to midnight.

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

From March 1st., 1918. to March 31st., 1918. No. 4.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
836	Mar. 11	eL?	16-44	22	Heavy micros. on both components.				
837	" 16	O	13-40-31					3380	
		P	13-47-02						
		PR ₁	13-47-45		Heavy micros. on both components.				
		PR ₂	13-48-00						
		S ²	13-52-11						
		eL	13-55-51	14					
		L	14-04	10					
		F	14-30						
838	" 19	eL	6-55 to	20					
			7-05	18					
		L	7-09	17					
		L	7-16	16					
		L	7-23	16					
		L	7-28	16					
		F	7-40						
839	" 21	PR ₁ ?	3-49-20					(6000)	
		S ¹	3-54-44						
		SR ₁	3-58-51		Δ approximate.				
		eL	4-03.5	16					
		F	4-15						
840	" 21	e?	16-39.5						
		e	16-47.1						
841	" 21	e	17-06.45	5					
		eS?	17-12-04	8					
		e	17-16.8	irreg.					
		eL	17-20	18					
		L	17-32	9					
		F	17-55						
842	" 22	eL	6-30.5						
		L	6-40	18					
		F	6-50						

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TIME: Mean Greenwich, midnight to midnight.

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

From **April 1, 1918.** to **April 17, 1918.** No. 5.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_z		
			h. m. s.	s.	μ	μ	μ	km.	
843	Apr. 10	●N	1-12-27 to 1-14	2.5	May not be seismic.				
844	" 10	●N ●N ●N ●N ●LN LN LN LN F	2-15-47 2-25-17 2-25-42 2-26-48 2-28.5 2-31 2-40 2-45 2-50	3. 1.5 2.5 4. 8. 8. 8. 8.					
845	" 13	eLN LN F	2-08 to 2-15 2-18 2-30	20 10					
846	" 15	O PN PRLN SN LN MN LN F	8-27-44 8-36-15 8-38-08 8-43-00 8-49.6 8-53 8-57 9-15	12 12 8		60		5050	
847	" 17	●N ●LN F	3-04 3-08 to 3-17 3-20	15					
848	" 17	eLN LN LN F	7-01 7-03 7-08 7-20	15 8					

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TIME: Mean Greenwich, midnight to midnight.

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

From April 18, 1918. to April 30, 1918. No. 6.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
649	Apr. 21	O	22-32-24					3600	
		oPN	22-39-12						
		SN	22-44-36						
		SR1N	22-46-14						
		eLN	22-48.2						
		MN	22-51	12		1000			
		LN	23-05	12					
		LN	23-12	12					
		LN	23-20	9					
		LN	23-34	12					
		F	24 hrs.						
850	" 27	O?	14-43-50					4100?	
		eP?N	14-51-15						
		eS?N	14-57-08						
		SR1N	15-59-24						
		eL N	15-02						
		LN	15-05	16					
		LN	15-10	11					
		F	15-20						
<p>Both pendulums have been set to register N-S during month.</p>									
<p><i>Ernest A. Hodgson</i></p>									

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TIME: Mean Greenwich, midnight to midnight.

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

From May 1st., 1918. to May 11th., 1918. No. 7.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
851	May 1	O?	4-48-10					440?	
		eP?	4-49-11						
		eS?	4-50-00						
		L	4-50.5	8					
		L	4-55	6					
		F	5-05						
852	" 2	e?	2-38-20	2	Heavy wind tremors all day interfere with the reading in both these quakes. They may not be seismic.				
		e?	2-40	8					
		F	2-48						
853	" 2	eL?	4-46	12					
		F	4-50						
854	" 6	O?	5-00-56					2610?	
		eP?	5-06-14						
		eS?	5-10-28	8					
		eL	5-13						
		M	5-16	8					
		L	5-19	8					
		L	5-25	7					
		L	5-30	7					
		L	5-43	10					
		F	5-50						
855	" 9	e	9-52-12	1					
		eL	9-52.5	12					
		L	9-54.5	9					
		F	10-						
856	" 11	O	21-23-16					8980	
		eP	21-35-28						
		eS	21-45-37						
		eL	22-03						
		L	22-10	30					
		L	22-15	15					
		F	22-35	15					

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

From May 11th., 1918. to May 20th., 1918. No. 8.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
857	May 16	O?	21-27-44					2930?	
		eP?	21-33-34						
		eS?	21-38-12						
		eL?	21-40-40						
		L	21-47		9				
		L	21-50		7				
		L	21-54		7				
		L	22-00		7				
		F	22-10						
858	" 20	O	14-35-55					5740	
		iP	14-45-10						The L waves arrive three minutes too early giving a velocity of 260 Km. per.min. instead of the usual 228 Km. The same is true of the Saskatoon record read here
		iS	14-52-32						
		eL	14-58		22				
		L	15-05		20				
		L	15-08		16				
		L	15-15		16				
		L	15-30		9				
		L	15-45		17				
		L	16-05		10				
		F	17 hrs.					Note increase in period here.	
859	" 20	O	17-55-15					8120	
		P	18-06-42						
		PR ₁	18-09-46						
		PR ₂	18-11.5						
		S	18-16-08						
		SR ₁	18-21-15						
		eS	18-30						
		L	18-35		35				
		L	18-40		21				
		L	18-45		17				
		cL	19-02		40				
		L	19-10		21				
		L	19-15		18				
		F	19-35					Again the unusual increase in period of the L waves.	

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

From May 21st., 1918. to May 31st., 1918. No. 9.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
860	May 22	O	6-41-15					5300	
		eP	6-50-02						
		iS	6-57-00						
		eL	7-04.8						
		L	7-12	8					
		L	7-40	8					
		F	8 hrs.						
861	" 23	O	11-57-13					3660	
		eP	12-04-06						
		eS	12-09-33						
		eL	12--13						
		L	12-32						
		L	12-45						
		F	13-- +	Lost in changing the sheets.					
862	" 25	O	19-29-26					8520	
		iP	19-41-14						
		S	19-51-00						
		i	19-55.8						
		eL	20-06	40					
		L	20-13	16					
		L	20-23	8					
F	20-50								
863	" 26	e	10-10-32					May not be seismic.	
		F	10-13-20						
864	" 30	e	22-37	7					
		F	22-47						

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TIME : Mean Greenwich, midnight to midnight.

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

From June 1st., 1918. to June 12th., 1918. No. 10.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
865	June 3	eE eLE F	0-23.1 0-30 1-30						
866	" 4	e e e e eL F	4-23.6 4-33.7 4-43.8 4-59 5-02 5-20						
867	" 4	e e e eL L L F	17-29-44 17-40.5 18-05 18-08 18-15 18-37 19- hr.	6 6 8 18 17 15	Probably of the order of 12000				
868	" 7	O eP PR ₁ S SR ₁ eL L L L L F	21-27-10 21-34-12 21-35-30 21-39-46 21-41-42 21-43-56 21-48 21-55 22-04 22-23 22-45	12 8 7 7				3780	
869	" 11	e eL F	12-41.9 12-49.4 13 hr.						
870	" 12	e eL F	4-37.5 4-45.8 5 hr.						

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TIME: Mean Greenwich, midnight to midnight.

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

From June 12th., 1918. to June 30th., 1918. No. 11.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
871	June 13	O P S L? L F	8-58-34 9-05-11 9-10-25 9-13.5 9-15 9-40					3460	
872	" 16	eL	6-10 to 6-35	25 to 18					
873	" 16	O iP i eSN SR ₁ eL F	12-27-48 12-34-21 12-35-48 12-39-30 12-40-36 12-42.5 13- hr.					3410	
874	" 17	i e e e F	16-43-20 16-43-32 16-44-52 16-45.9 17- hr	2 5 6 6					
875	" 22	i i eL	22-15.2 22-18.6 22-26						From Deformation Instrument. Seismograph clockwork stopped.
876	" 24	i? eL F	15-41.9 15-46 16 hr.	21					i may not be seismic.
877	" 26	eL L L F	22-29 22-34 22-38 22-50	28 18 17					

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International
Seismological
Centre

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TIME: Mean Greenwich, midnight to midnight.

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

From July 1st., 1918. to July 8th., 1918. No. 12.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A _E	A _N	A _Z		
			h. m. s.	s.	μ	μ	μ	km.	
878	July 1	i	6-29-00	4					
		eN	6-38.9						
		eL _E ?	7-09						
		L	7-25	20					
		L	7-37	16					
		F	Lost in wind tremors.						
879	" 3	iPR ₁ ?	7-13-00	4	Appears to be the confused record of several shocks. The first phase is probably PR ₁ and Δ of the order of 12000 Km.				
		eN	7-20	8					
		eE	7-22.9	8					
		e	7-25.2	12					
		e	7-30	12					
		eL?	7-45						
		L	7-53	20					
		L	7-59	22					
		L	8-05	18					
		L	8-10	18					
		L	8-15	17					
		L	8-33	17					
		L	8-50	20					
		L	9-03	17					
		L	9-11	17					
L	9-21	15							
L	9-32	15							
F	10 hrs								
880	" 8	O?	10-24 ca.					9420?	
		iP _N ?	10-36-37						
		iN	10-40						
		PR ₁ ?	10-41-06						
		iS?	10-47-08						
		i	10-56.5						
		eL	11-07	45					
		L	11-16	34					
		L	11-30	22					
		L	11-40	16					
F	Lost on changing the sheets at 12-10.								

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

From July 9th., 1918. to July 21st., 1918. No. 13.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS		
					A_E	A_N	A_Z				
			h. m. s.	s.	μ	μ	μ	km.			
881	July 12	e	21-22-42								
		eL	21-23.2	10							
		L	21-30	10							
		eE	21-51								
		F	22 hrs.								
882	" 14	e	18-36-04	4							
		e	18-37 to	10 to							
			18-41	6							
		eN	18-54 to	6							
			18-59	6							
883	" 15	O	0-22-55					3860			
		iP	0-30-03								
		iS	0-35-42								
		eL	0-39								
		M	0-44	15		425	50				
		L	0-51	8							
		L	1-05	9							
		L	1-15	8							
		L	1-29	9							
		L	1-55	7							
		L-	2-05	8							
		F	2-35								
				SASKATOON RECORD							
				O	0-22-56					1910	
				iP	0-26-59						
		iS	0-30-14								
		eL	0-31.4								
884	" 16	e	20-15-06	6							
		e	20-17-36	6							
		eL?	20-24-24	6							
		L?	20-29-06								
		F	20-45								

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

From July 21st., 1918. *to* July 31st., 1918. No. 14.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
885	July 21	O?	6-18-10					8640?	
		P?	6-30-04						
		S? _N	6-39-56						
		eL.	6-55						
		L	7-03	30					
		L	7-14	20					
		L	7-25	16					
		L	7-41	15					
L	8-00	15							
F	8-20								
886	" 21	eL	10-46 to 11-10	18					
887	" 23	eL F	14-25 Lost in changing the sheets.	21					
888	" 24	eL _N ?	11-45						
		L	11-56	18					
		L	12-03	17					
		L	12-07	16					
F	12-20								
889	" 25	eL	21-45 to 22 hrs						
890	" 29	eL	12-21 to 12-30	18				Amplitude very small.	
891	" 29	eL?	17-28 to 18-30					May not be seismic. Heavy wind.	
892	" 31	O	14-36-20					4210	
		P	14-43-53						
		PR ₁	14-45-06						
		S	14-49-52						
		SR ₁	14-52						
		eL	14-54.6	24					
		L	14-58	21					
		L	15-06	11					
F	15-40								

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TIME: Mean Greenwich, midnight to midnight.

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

From August 1st., 1918. to ~~August 15th, 1918~~ to 15

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A _E	A _N	A _Z		
893	Aug. 4	e _N	16 ^h -21 ^m to 16-42 ^s	6 ^s to 8	μ	μ	μ	km.	
894	" 5	e [?] _N eL [?] _N eL _N L L L _E F	2-05.5 to 2-30 2-39.5 2-42 2-50 2-56 3-05	12 16 16 16 16					
895	" 8	O P S SR ₁ _N eL _E L L L L L F	9-56-34 10-08-28 10-18-20 10-25-04 10-36 10-40 10-50 10-54 11-05 11-20 11-55	30 24 20 17 16				8640	
896	" 15	C P _N S _N L _N L L L L L L F	12-27-32 12-37-20 12-45-12 12-56 13-17 13-30 13-51- 14-10 14-35 14-55	50 35 23 16 15 17 15				6300	Merges into the next quake. Tremors lasted, faintly marked for nearly five hours.
897.	" 15	i i i _E eL [?] _E L _E L L F	17-51-08 17-56-30 18-08 18-21 18-30 18-40 18-45	24 22 19					

Ernest A. Hodgson

OTTAWA

No.

Earthquake Station, Dominion Astronomical Observatory

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

International
Seismological
Centre

TIME: Mean Greenwich, midnight to midnight.

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

From August 16th., 1918. *to* August 31st., 1918. No. 16.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
898	Aug. 17.	O P S eL _E L L F	6-53-27 7-04-11 7-12-55 7-25 7-30 7-35 8-00	24 18				7300	
899	" 21.	O iP _N e F	4-12-50 4-13-48 4-14-03 4-14-30					420	Reported from South Paris, Maine. Δ taken from the globe, and used with P to get O. Record barely visible here.
900	" 22.	e _N	8-44-56 9-10	to					Faint traces only on EW. May not be seismic.
901	" 23.	i e e i eL L L L L L _N L _N F	6-56-13 7-02-21 7-06-23 7-12-54 7-36 7-44 7-51 8-03 8-13 8-24 8-44 9-	18 16 15 14 14 13 13					

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TIME: Mean Greenwich, midnight to midnight.

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

From September 1st., 1918. *to* September 7th., 1918. No. 17.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
902	Sept. 2	eL?N L	15-08 15-20 to 15-53	19 18					
903	" 4	eN	20-11-28 20-18-30						
904	" 7	O P eS iE LE M L L L L L L L L F	17-17-37 17-28-24 17-37-11 17-38-50 17-50 18-10 18-25 19-00 19-25 19-45 19-50 20-10 20-35 21-20 1-20 Sept 8th.					7360	A difficult record to read. The imp. is evidently not S but cannot be identified with any other phase. The same impulse appears on the records of Saskatoon and Halifax, particularly on the E-W components.
904	" 7	eP eL L L L L L L L L L F	VERTICAL RECORD 17-28-45 17-52.5 18-0 18-06 18-10 18-15 18-22 18-27 18-40 18-53 19-10	32 16 17 17 17 17 16 15					

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International
Seismological
Centre

TIME: Mean Greenwich, midnight to midnight.

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

From September 7th., 1918. *to* September 12th., 1918. No. 18.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
904	Sept. 7	BASELATOON RECORD						5500	
		O	17-17-31						
		P	17-26-31						
		SE	17-33-40						
		iE	17-35-13						
		L	17-42.5						
904	Sept 7	HALIFAX RECORD						8000	
		C	17-17-51						
		P	17-29-12						
		SE	17-38-32						
		iE	17-39-48						
		L	17-52						
905	" 8	eN	6-08						
		eE	6-11.5						
		eL	6-25 to						
			6-35	13					
		F	7- hr						
906	" 11	e	4-05 to						
			4-17	8					
		F	4-40						
907	" 11	eL	5-04						
		iE	5-17	22					
		L	5-30						
		F	5-40						
908	" 12	eN	18-25						
		eL	18-27 to	16					
			18-55	8					
		F	19-hr						

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TIME: Mean Greenwich, midnight to midnight.

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

From September 12th., 1918. *to* September 29th., 1918. No. 19.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A _E	A _N	A _Z		
			h. m. s.	s.	μ	μ	μ	km.	
909	Sept 14	O	17-05-01					8880	
		FN	17-17-08						
		S	17-27-12						
		eLE	17- 41.5	23					
		L	17-44	17					
		L	17-55	18					
		L	18-03	15					
		L	18-30	15					
		F	18-43	15					
			19--						
910	" 16	eLE	14-13	26					
		L	14-19	18					
		L	14-25	16					
		F	14-35						
911	" 22	e	10-13.5						
		i	10-17-53						
		e	10-29.3						
		eL?N	11-07						
		LE	11-07	27					
		L	11-15	27					
		F	11-20	27					
			11-35						
912	" 29	O	12-07-19					8720	
		P	12-19-17						
		S	12-29-13						
		eL	12-43	44					
		L	12-55	19					
		L	13-00	17					
		F	13-20						

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TIME: Mean Greenwich, midnight to midnight.

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

From September 27th., 1918. *to* September 30th., 1918. No. 20.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
913	Sept 30	O	13-34-32					6820	
		P	13-44-50						
		S	13-53-10						
		L	14-03.5						
		L	14-12	18					
		L	14-25	15					
		L	14-52	12					
		F	15-10						
914	" 30	eL?	18-42						
		L ^N	18-45	32					
		L ^E	18-53	25					
		L	19-00	17					
		L ^E	19-15	15					
		L ^E	19-20	15					
		L	19-35	18					
		L	19-55	17					
		L ^E	20-15	14					
		F	20-40						

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TIME: Mean Greenwich, midnight to midnight.

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

From October 1st., 1918. to October 11th., 1918. No. 21.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A _E	A _N	A _Z		
			h. m. s.	s.	μ	μ	μ	km.	
915	Oct. 1	e e eL F	0-16-45 0-35-41 0-41 1-10						Small irregular amplitudes in L.
916	" 11	O P M S L L M L L L L L L L L L L L F	14-14-10 14-20-24 14-25-21 14-28 14-34 14-55 15-10 15-30 15-40 15-50 16-00 16-15			550		3190	Porto Rico earthquake. merged into next quake.
VERTICAL RECORD AT OTTAWA.									
		eP	14-20-38						
		eS	14-26-00						
		eL	14-29	20					
		L	14-34	12					
		L	15-00	10					
		F	15-20						
SASKATOON RECORD.									
		O	14-14-44					4980	
		F	14-23-11						
		S	14-29-52						
		SR ₁	14-33-10						
		L?	14-37						
HALIFAX RECORD									
		O	14-14-10					3080	
		PN	14-20-14						
		SN	14-25-03						
		LN	14-28						

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TIME: Mean Greenwich, midnight to midnight.

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

From October 11th., 1913. to October 14th., 1918. No. 22.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS								
					A _E	A _N	A _Z										
917	Oct. 11.	eE	h. m. s. 17-08-15	s. 18				km.	<p>The Deformation Instrument confirms the phases noted and also seems to indicate phases at about 16-58 and 17-03.5. The record is so contradictory in itself and in conjunction with the Halifax and Saskatoon records that it is impossible to deduce a value for either Δ or 0.</p> <p>HALIFAX RECORD</p> <p>i_N 17-09-25 e 17-14-14 eL_E 17-15.5 eL_N 17-17</p> <p>SASKATOON RECORD</p> <p>i 17-12-22 i 17-24-31 eL 17-29</p>								
		e	17-09-34														
		iE	17-14-15														
		eL	17-16														
		F	18-20														
		eN?	0-25														
		e	0-29.6														
		L	0-37														
		F	0-50														
		e ?	9-30														
		e	9-32.1														
		eL	9-34.8														
		F	10-10														
		<p>A disturbance lasting about an hour and beginning about 0-30 with eL waves at 0-36 of about 20 sec period, and small amplitude. Unfortunately the minute breaks failed throughout the sheet making it impossible to more than approximate the times. These approximations are from the Deformation Instrument whose rate is only 17 mm. per. hour.</p>															

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TIME: Mean Greenwich, midnight to midnight.

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

From October 14th., 1918. to October 19th., 1918. No. 23.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_z		
			h. m. s.	s.	μ	μ	μ	km.	
921	Oct. 14		A disturbance with an e about 12-30, eL at about 12-28 and lasting a little over an hour, occurred on this date. It is on the same sheet as the preceding earthquake and affected in the same way.						
922	" 15	e _N	23-48	3					
		e _N	23-50.2	4					
		eL	23-52	12					
		F	0-05	October 16th., G.M.T.					
923	" 18	O?	21-33-47					2890	
		eR? _N	21-39-33						
		eS?	21-44-08						
		eL	21-48						
		L	21-50	18					
		L	22-18	12					
		F	22-25						
924	" 19	e	2-13-30						
		eL	2-20-00	15					
		L	2-25	8					
		F	2-50						
925	" 19	O	3-22-49					3620	
		iP	3-29-39						
		iS	3-35-04						
		eL	3-38.3						
		L	3-44	18					
		L	4-03	12					
		L	4-11	12					
		F	4-30						
		VERTICAL RECORD							
		eL?	3-39						
		L	3-44	20					
		F	3-45						

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TIME: Mean Greenwich, midnight to midnight.

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

From October 20th., 1918. *to* October 31st., 1918. No. 24.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
926	Oct. 25.	O	3-42-50					3040	
		P _N	3-48-50						
		eS _N	3-53-36						Reported from Porto Rico.
		e	3-54-40	3					
		eL	3-55	20					
		L	4-03	12					
		L	4-14	11					
		L	4-30	11					
		F	5-05						
927	" 27	O	15-35+ ca.					13000ca.	
		ePR ₁	15-55-23						Beautiful sinusoidal L waves.
		eS	16-03-43						Δ from S-PR ₁ and O from S-I ₃ *
		eL	16-29 to	20					All values were interpolated
		L	16-43	16					from the tables.
		F	merges into next quake						
928	" 27.	O	17-06 approx.					13500 approx.	
		e	17-27-21						Data very conflicting. The value
		c	17-37-11						for Δ is probably too small if
		eL	18-05.9	26					anything and that for O too late.
		L	18-30	16					
		L	18-40	16					
		LR ₁ ?	19-04	20					
		F	19-40						
929	" 29	e _N	12-33-41	6					Micros mask the earlier phases
		e _N	12-37-00	6					which are stronger on the
		e _N	12-38-56	6					NS Component.
		e	12-40-26						
		e _N	12-43						
		eL	12-46	20					
		L	12-55	12					
		L	13-06	8					
		F	13-20						

* The symbol I_S (Interval S) for (S-O) with its corresponding forms I_P and I_L were suggested by Dr. Klotz some time ago and have been in use in the office ever since. They have proved very useful in keeping notes, permitting statements such as the above, to be made briefly and conveniently.
E.A.H.

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TIME: Mean Greenwich, midnight to midnight.

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

From November 1st., 1918. to November 8th., 1918. No. 25.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A _E	A _N	A _Z		
			h. m. s.	s.	μ	μ	μ	km.	
930	Nov 2	eN?	10-28.4						
		eN	10-33.5	10					
		e	10-35	10					
		L	10-38	8					
		L	10-40	7					
		L	10-44	6					
		F	11- hrs.						
931	" 3	e	11-36.5	7					Early phases on NS confused in heavy micros. Beautiful sinusoidal L waves on EW Component.
		e?	11-55	12					
		eN?	12-15	40?					
		eL _E	12-21	30					
		L	12-29 to	18 to					
		L	12-38	15					
		L	12-42	15					
		L _E	13-00	14					
		F	13-15						
932	" 5	i	22-48-29	3					
		eL	22-59	20					
		F	23 -15						
933	" 8	O	4-38-50					8180	
		iP	4-50-20						Note very long period of the SR ₁ waves. First read as L which they closely resemble.
		ePR ₁	4-53-25						
		eS ₁	4-59-49						
		eSR ₁	5-05.9	36					
		eL	5-14.5	32					
		L	5-25	18					
		L	5-45	17					
		L	6-00	12					
		L	6-25	12					
		L	6-40	12					
		L	6-50	10					
		L	6-55	10					
		L	7-06	10					
		F	8-00						

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TIME: Mean Greenwich, midnight to midnight.

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

From November 8th., 1918. to November 11th., 1918. No.26.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
933 (cont'd) Nov. 8	HALIFAX RECORD								
	O		4-38-36					9380	
	P		4-51-08						L waves arrive too soon by about seven minutes, appearing at the time SR_{11} should appear but with a period of 45s.
	S		5-01-37						
	L?		5-14-30	45					
	SASKATOON RECORD								
	O		4-38-49					7100	
	P		4-49-22						L waves arrive four minutes too soon. They may be S _{rep} but there is no break between them and the true L.
	S		4-57-56						
L?		5-06							
934	Nov 9	e F	0-17 to 0-30	8				May not be seismic.	
935	Nov 10	e F	13-00 to 13-05	6				May not be seismic	
936	" 10	e F	15-47 to 15-50	22				Very small amplitude. NS is confused with wind and micros.	
937	" 11	eL	8-04 to 8-10	15					
938	" 11	O eP eS eL L L F	21-45-00 21-50-45 21-55-19 21-58 22-05 22-22 22-45	24 14 14			2880		
939	" 16	eL F ^E	6-15 to 6-25					Very slight indication. NS record is lost in microseisms.	

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TIME: Mean Greenwich, midnight to midnight.

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

From November 16th., 1918. *to* November 30th., 1918. No. 27.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_z		
			h. m. s.	s.	μ	μ	μ	km.	
940	Nov. 18.	i	19-01-01		Phases confused. No readings obtained. Halifax and Saskatoon records equally unreadable. The records indicate that the disturbance came from the east. Tidal wave occurred at Newfoundland on same date and was probably connected with this earthquake, according to reports received from Halifax.				
		i	19-03-40						
		i	19-04-32						
		e?E	19-23.3	25					
		eL	19-39	60					
		L	19-50	30					
		L	20-00	20					
		L	20-20	18					
		L	20-35	18					
941	" 22	F	21-01	16					
		F	21-30						
		e	16-31		Heavy Micros.				
		eL	16-38	17					
L	16-44	17							
F	17-30								
942	" 23	i	23-20-20		Very small amplitude. Record barely discernable.				
		i	23-20-35	4					
		i	23-21-14	7					
		eN	23-31.5	10					
		L?	0-05	28					
		L	0-20	16					
		F	0-50						
943	" 25	eN	2-27.3	6	Very small amplitude. Record barely discernable.				
		eLE	2-30.5						
		LE	2-33	18					
		LN	2-35	13					
		LN	2-35						
		F	2-40						
944	" 30	eL	7-17.3		The seismograph was out of commission from 14-30 Nov. 25th., to 18h., Nov. 26. The clockwork of the drum, which has been giving trouble for some time past, has been overhauled and adjusted.				
		LE	7-22	19					
		L	7-25	17					
		L	7-30	14					
		L	7-34	9					
		F	7-55						

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No.



LATITUDE $45^{\circ} 23' 38''$, LONGITUDE $75^{\circ} 42' 57''$ or $5^h 02^m 51^s.8$ W. Greenwich, ALTITUDE 83m.

TIME: Mean Greenwich, midnight to midnight.

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

From December 1st., 1918. to December 6th., 1918. No. 28.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_z		
			h. m. s.	s.	μ	μ	μ	km.	
945	Dec. 1.	i	2-58-56						
		eL ^E	3-14.8						
		L	3-20	32					
		L	3-28	18					
		L	3-38	14					
		F	3-55						
946	" 2.	O	9-47-30					4800	
		iP	9-55-45						
		iS	10-02-16						
		eL	10-05.5	21					
		L	10-09	21					
		L	10-17	14					
		L	10-32	14					
		F	11-10						
947	" 4.	O	11-47-43					8000	
		eP	11-59-04						
		eS	12-08-24						
		eL	12-19.3	34					
		L	12-30	19					
		L	12-36	17					
		L	12-50	17					
		L	13-00	16					
		L	13-15	18					
		L	13-33	18					
		L	13-50	15					
		L	14-05	15					
		L	14-15	15					
		LR ₁ N	14-16	30					
LR ₁	14-25	23							
		F	15-10						
948	" 6.	i	7-42-28						
		eL _N	8-05.8	to					
			8-17	18					

Ernest A. Hodgson

OTTAWA

No.

Earthquake Station, Dominion Astronomical Observatory



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

TIME: Mean Greenwich, midnight to midnight.

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

From December 6th., 1918. *to* December 9th., 1918. No. 29.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A _E	A _N	A _Z		
			h. m. s.	s.	μ	μ	μ	km.	
949	Dec. 6	O	8-40-58					3650	
		P	8-47-50						
		S	8-53-16						
		eL	8-55	?					
		M	9-00	10	100	200			
		L	9-20	10					
		F	9-55						
		SASKATOON RECORD						1460	
		O	8-40-56						
		P	8-44-05						
		S	8-46-38						
		HALIFAX RECORD						4560	
		O	8-40-57						
	P _N	8-48-55							
		S	8-55-13					NS Component thrown off the sheet during the maximum.	
	The above values for Δ indicate an epicentre in northern British Columbia, in a region hitherto immune from earthquakes. A disturbance was noted in Vancouver and Victoria at about the same time, - probably a sympathetic earthquake.								
950	" 6	e [?] N	12-13-44						
		e _N	12-15						
		eL [?]	12-19-36						
		M	12-22		15 ca	35 ca			
		F	12-35						
951	" 9	e	18-30.5						
		eL [?]	18-35.5						
		L	18-39	21					
		L	18-43	15					
		L	18-52	15					
		F	Merged into next quake						

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



TIME: Mean Greenwich, midnight to midnight.

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

From December 9th., 1918. *to* December 31st., 1918. No. 30.

No.	DATE	PHASE	TIME	PERIOD	AMPLITUDE			DISTANCE	REMARKS
					A_E	A_N	A_Z		
			h. m. s.	s.	μ	μ	μ	km.	
952	Dec. 9	e eL? L L L F	Lost in micros and coda of No. 951. 19-25 19-29 19-45 20-01 20-40						
953	" 19	eL?E	20-40 to 20-45		Very small amplitude, barely visible.				
954	" 21	O P S ^N eL ^E L ^N F ^N	9-24-51 9-33-14 9-39-52 9-45.5 9-51 10-05					4920	
955	" 23	e? ^N eL L F	19-56 20-00 20-10 20-35						
956	" 25	e eL F	10-59-40 11-24 to 11-32 11-40						L barely visible.
957	" 26	eL ^N	8-49 to 8-54						Barely visible.

Ernest A. Hodgson