



RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory

OTTAWA, CANADA.

No. 1.

LATITUDE 45° 23' 38", LONGITUDE 75° 42' 57" or 5^h 02^m 51.8 W. Greenwich.

TIME : Mean Greenwich, midnight to midnight.

INSTRUMENTS : Two Bosch photographic horizontal pendulums.

NOMENCLATURE ; Göttinger.

From Jan. 1st to Jan. 3rd, 1911.

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
1911			h. m. s.	s.	μ	μ	
Jan. 1	I	ON LN LN F	10-41-36 11-09.7 11-25 11-55	 20 13 			Preceded by extremely strong microseisms.
Jan. 2	I	OE ON LN L F	11-07 11-09.7 11-36 to 11-39 11-41 12-0	 29 ^s 20 ^s			
Jan. 2	I	e L L L F	23-19 23-48 to 23-53 23-55 24-00 24-55	 20 18 16			
Jan. 3	I	ON LN F	8-12.5 8-18.5 8-43	 20 			E comp. shows only traces.

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LATITUDE $45^{\circ} 23' 38''$, LONGITUDE $75^{\circ} 42' 57''$ or $5^{\text{h}} 02^{\text{m}} 51.8^{\text{s}}$ W. Greenwich.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums, No. 2
NOMENCLATURE; Göttinger.

From Jan. 3rd, to Jan. 9th, 1911.

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	s.	μ	μ	
1911							
Jan. 3-4	II	PN	23-38-36	3			Distance 9800 km, Turkestan Quake.
		PE	23-38-43	3			
		P R	23-42-20				
		SN	23-49-16	8			
		SE	23-49-40	8			
		LN	23-55-40				
		LE	23-56				
		L	23-57	36-40	50	135	
		M	0-16	20	170		
		M	0-18	20		335	
		L	0-36 to				
			1-06	15			
		F	2-50				
Jan. 7	I	e	2-33-12				Partly masked by wind effect.
		S ?	2-44-18				
		L	3-03	16			
		L	3-20	20			
		L	3-28	19			
		F	4-10				
Jan. 9	I	e	4-46				Waves appear to continue for some hours, but difficult to differentiate from wind effect as shown by anemo- gram.
Jan. 10	I	e	11-00-32				
		A	11-10				

OTTO ROSE



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LATITUDE $45^{\circ} 23' 38''$, LONGITUDE $75^{\circ} 42' 57''$ or $5^{\text{h}} 02^{\text{m}} 51^{\text{s}}.8$ W. Greenwich. No. 3

TIME : Mean Greenwich, midnight to midnight.

INSTRUMENTS : Two Bosch photographic horizontal pendulums.

NOMENCLATURE ; Göttinger.

From Feb. 1 to Feb. 17, 1911.

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	s.	μ	μ	
1911							
Feb. 5	II	P	4-30-42	4			Distance 3560 km.
		PR	4-32-40				
		S	4-36-02	6			
		L	4-38-34	19			
		M	4-40-20	19	67	60	
		L _N F	4-44 6-07	20			
Feb. 7	I	P	2-27-18				
		S	2-32-36				
		L	2-35-08	8-12			
		M _N	2-36.9	12		6	
		M _E	2-38.7	6	8		
Feb. 16	I	e	20-24-57				
		F	20-31				
Feb. 17	I	e	2-50-50				
		M	2-51-20	5.5	8	4	
		F	3-06				
Feb. 17	I	e	14-40-25				
		M	14-40-46	5.5	8	4	
		F	15-07				

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

TIME : Mean Greenwich, midnight to midnight. No. 4

INSTRUMENTS : Two Bosch photographic horizontal pendulums.

NOMENCLATURE ; Göttinger.

From Feb. 18 to Feb. 28th, 1911.

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	s.	μ	μ	
1911							
Feb. 18	I	e i L F	2-05 2-12 2-13 2-57	10			
Feb. 18	II	eN eE iPN iPE LE LN MN ME LE LN F	19-04-30 19-04- 34 34 19-04-45 19-04-43 19-23 19-24.5 19-35 19-36 19-41to 19-43 19-45to 19-50 20-54	16 20 20 14 14 14 14	30	60	No distinct S Press report quake in Monastir. Dist 7350 km.
Feb. 19	I	e F	2-31.6 2-42	20			
Feb. 26	I	e L F	13-09-20 13-07.5 13-25	10 30			

Otto Loh

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OTTAWA, CANADA.



International
Seismological
Centre

LATITUDE 45° 23' 38", LONGITUDE 75° 42' 57" or 5^h 02^m 51.8 W. Greenwich.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

No. 6

From Apr. 1 to Apr. 20, 1911.

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
1911			h. m. s.	s.	μ	μ	
Apr. 7	I	P	7-03-42				No Maximum.
		OL	7-11-30	17			
		L	7-19 to				
			7-23	17			
		L	7-30 to				
Apr. 7	I		7-55	16			
		F	8-15				
		P	18-40-03	2			
		S?	18-43-20				
		L	18-45-42	6			
Apr. 10	I	M	18-46-42	5	6		
		F	18-55				
		PN	18-49-26				
		SE	18-55-10				
		SN	18-55-18				
		IE	18-55-36			8	
		OLN	18-56-14	16			
		OLE	18-58-24				
		ME	18-59-34	20	21		
		LN	19-02-44	23			
Apr. 18	I	LE	19-03-36	20			
		L	19-10 to				
			19-13	12			
		F	19-57				
Apr. 18	I	OL	19-00	28			
		L	19-09	20			
		F	20-04				
Apr. 28	I	PN	10-00-48	4			
		SE	10-07-56	6			
		ME	10-08-02	6	10		
		LN	10-12-03	11			
		LE	10-12-12	11			
		F	10-50				

Otto Lohs



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OTTAWA, CANADA.

LATITUDE $45^{\circ} 23' 38''$, LONGITUDE $75^{\circ} 42' 57''$ or $5^{\text{h}} 02^{\text{m}} 51.8^{\text{s}}$ W. Greenwich No. 7

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

From **May 1st** to **May 31st, 1911.**

DATE. 1911	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					<i>A_E</i>	<i>A_N</i>	
May 4-5	II	P	23-48-08	3	μ	μ	Distance 7770 km.
		i	23-48-42				
		S	23-57-16				
		M	23-57-20	7	30	12	
		eLN	0-02	20			
		eLE	0-03	20			
		L	0-20 to 0-25	16			
		L	0-43	13			
May 9	I	P	19-48-05	4			
		eE	19-53-20				
		iS	19-56-34				
		LN	20-00	8			
		LE	20-01	8			
		F	20-25				
May 10	I	P	0-29-03				Distance 4070 km.
		S	0-34-54				
		eLN	0-39-40	8			
		L	0-41	9			
		L	0-43	11			
		MN	0-43.5	11		5	
May 11	I	eL	5-17	24-27			
		L	5-27	20			
		L	5-33	17			
		F	5-52				
May 25	I	PN	8-05-46				From 8-15 to 8-20 period for E about 5 s.
		SN ?	8-10-56				
		LN ?	8-13	7			
		ME	8-19	5	6		
		F	8-49				

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TIME : Mean Greenwich, midnight to midnight.

INSTRUMENTS : Two Bosch photographic horizontal pendulums.

NOMENCLATURE ; Göttinger.

From June 1st to June 15, 1911.

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
1911 June 3	I	e E?	20-50-40s.	s.	μ	μ	
		E L N	21-18.5				
		E L E	21-20	30			
		L	21-24 to				
			21-30	20			
		L	21-34 to				
			21-40	16			
		F	21-54				
June 7	II	P	11-09-43				
		P R ₁	11-11-07		50	20	
		P R ₂	11-11-42		83	25	
		S	11-15-14	10			Quake in Mexico.- We might read S also as S N 11-15- 38, S E 11-15-42.
		L E	11-22-00	24			
		L N	11-22-17	24			
		M E	11-25-40		270		
		M N	11-28-40			200	
		L	12-00	16			
		L	12-24	14			
		L	12-48	14			
		F	14-50				
June 8	I	i	0-21-27				
		F	0-35				
June 15	I	i P?	5-31-34				
		i	5-41-51				
		L	5-43-40	10			
		F	6-00				

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TIME : Mean Greenwich, midnight to midnight.

INSTRUMENTS ; Two Bosch photographic horizontal pendulums.

NOMENCLATURE ; Göttinger.

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From **June 15** to **June 30, 1911.**

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					A_E	A_N	
1911			h. m. s.	s.	μ	μ	
June 15	II	P	14-39-42	3-4			
		P R	14-44-02	6			
		i S N	14-50-12	6		25	
		i S E	14-50-14	6	15		Distance 9400 km.
		L N	14-53	30			If S is correct,
		L N	14-58 to				L appears too
			15-01	30-32			soon.-
		L	15-05	38-40			No distinct M.
		L N	15-07.5	20			
		L E	15-10	20			
		L N	15-12	28			
		L E	15-18	30			
		L N	15-25	20			
		L N	15-30	20			
		L E	15-35	20			
		L	15-40	14-17			
		L E	15-45	14			
		L	15-55	14			
		F	17-17				

Otto Klotz

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OTTAWA, CANADA.LATITUDE 45° 23' 38", LONGITUDE 75° 42' 57" or 5^h 02^m 51.8 W. Greenwich. *alt. 83 m.*

TIME: Mean Greenwich, midnight to midnight. -- alt. 83 m.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

From July 1 to July 31, 1911.

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
1911							
July 1	I	P	22 ^h -07-07	1 ^s .	"	"	
		PR	22-08-30				
		S ⁱ	22-12-30	5			Distance 3600 km.
		L	22-18	30			California.
		M _N	22-19.2	16		17	
		M _E	22-23.4	12	17		
		F	23-10				
July 4	I	P	13-46-26				
		i	13-50-47	8			
		i	13-56-47	10			Distance 9200 km.
		i	13-58-48	9			
		L	14-04.7	12			No marked maximum.
		L	14-03	11			
		L	14-12	12			
		L	14-20	20			
		L	14-25 to				
		L	14-28	24			
		..F	15-0				
July 12	I	P	4-28-45				
		iPR, ?	4-28-24				
		S ⁱ	4-38-22				No maximum.
		oL	5-05.3	24-30			
		L	5-20	20			Distance about
		L	5-33	13-20			12000 km.
		F	6-35				

Otto Klobes



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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

From August 1st to August 31, 1911.

DATE. 1911	CHAR.	PHASE	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
			h. m. s.	s.	"	"	
Aug. 16	I	eP	22-59-56				No marked maximum Similar to one of July 12,
		1PR, ?	23-01-34				
		S	23-11-20				
		eLE	23-31	40			
		eLN	23-35	28			
		L	23-50 to				
		F	23-59 1-33	18-19			
Aug. 27	I	P	11-05-41				No maximum.
		S	11-10-56				
		eLN	11-20.6	18			
		eLE	11-22	16			
		F	11-47				

Otto Neuhoff



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LATITUDE $45^{\circ} 23' 38''$, LONGITUDE $75^{\circ} 42' 57''$ or $5^{\text{h}} 02^{\text{m}} 51.8$ W. Greenwich. alt. 83m

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

From Sep. 1 to Sep. 17, 1911.

DATE 1911	CHAR.	PHASE	TIME h. m. s.	PERIOD. s.	AMPLITUDE.		REMARKS.
					AE μ	AN μ	
Sep. 6	I	e P	1-06-05				Distance 8500 km.
		i P	1-06-06				
		S	1-15-50				
		e L	1-35.3	13			
		L	1-36 to 1-45	13-18			
		F	1-57				
Sep. 13	I	e	3-23-26				
		e L	3-30	14			
		F	4-05				
Sep. 15	I	P	13-20-40	3			Distance 7200 km. From 13-45 onward well-marked con- tinuous L. No well-defined maximum.
		S	13-29-19				
		e L	13-40.3	28			
		L	13-45 to 13-55	26-16			
		F	14-15				
Sep. 17	I	e P	3-37-23	4			Distance 7300 km. Before this quake had died out, another set in.
		e	3-38-04				
		i P	3-38-17	3			
		i	3-40-39				
		S	3-47-00				
		e L	4-00	30			
		L	4-02	22			
		M	4-05.5	16	17	17	
		M	4-10	16		25	
L	4-16 to 4-30	14					

Otto Neuhof



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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

From **Sep. 17** to **Sep. 30, 1911.**

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
1911			h. m. s.	s.	μ	μ	
Sep. 17	I.	i P S i e L L F	4-34-39 4-43-07 4-44-18 4-59.3 5-02 tc 5-05 6-00	30 20			Distance 7000 km. Record amongst coda of preceding.
Sep. 20	I	e F	3-27-44 3-33				
Sep. 20	I	e L L L L F	5-32.3 5-34 5-35 5-37 6-0	24 18 14			
Sep. 22	II	P S L M F	5-09-28 5-15-56 5-24 5-24.5 6-15				Distance 4740 km. Prince William Sound, Alaska.

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

From Oct. 1st to Oct. 31st, 1911.

DATE.	CHAR.	PHASE.	TIME.	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
1911							
Oct. 6	I	P	10 ^h -21 ^m -51 ^s	6	"	"	Distance 3100 km.
		S	10-26-40	14			
		L	10-30.5	20			
		M	10-35.5	18	40	70	
		L	10-48 to 11-07	18 to 14			
		F	12-46				
Oct. 10	I	P	13-19-12				Distance 3800 km.
		S	13-24-46				
		L	13-31	15			
		M	13-35	15	70	30	
		F	14-40				
Oct. 13	I	P	2-45-06				Distance 8300 km.
		S	2-54-42				
		L	3-12	20			
		L	3-17 to 3-42	17-14			
		F	4-12				
Oct. 14	I	e	17-01-20				Very strong micro-seisms mask P and S.
		L	17-10	20-18			
		L	17-20	12			
		F	18-0				
Oct. 17	I	L	10-24	16			Merest trace.- Possibly two quakes.
		L	10-37	18			
		L	12-43	18			
Oct. 26	I	e	14-18-29				Microseisms mask first phases.
		L	14-32 to 14-37	34-11			
		F	15-0				
Oct. 29	I	P	18-17-18				Distance 4700 km.
		S	18-23-44				
		L	18-31.6	40			
		L	18-36 to 18-38	30-24			
		F	19-25				

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

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

From Nov. 1 to Nov. 16, 1911.

DATE 1911	CHAR.	PHASE	TIME h. m. s.	PERIOD. s.	AMPLITUDE.		REMARKS.
					A_E μ	A_N μ	
Nov. 1	I	P	9-33-50				Distance 4000 km.
		PR	9-35-14	3			
		S	9-39-40				
		L	9-46	24			
		L	9-47 to				
			9-55	20-15			
Nov. 7	I	P?	6-04-45	3			Difficult to read any L. Distance 6000? km.
		S	6-12-21	7			
		ME	6-12.7	7	14		
		L ^{E?}	6-26.5	10			
Nov. 13	I	e	16-29.7				Microseisms prevail.
		L	16-44	30			
		L	16-52 to				
			17-07	14-13			
		F	17-59				
Nov. 16	I	e	5-42	14			
		F	5-47				

Otto Neuberg

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INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE; Göttinger.

From Nov. 17 to Nov. 30, 1911.

DATE	CHAR.	PHASE	TIME	PERIOD.	AMPLITUDE.		REMARKS.
					AE	AN	
1911			h. m. s.	s.	μ	μ	
Nov. 18	I	P ^N ?	7-37-32				Strong microseisms mask phases.
		P ^E ?	7-40-26				
		S	7-53				
		L?	7-55	30			
		M ^E	7-56.3	30	12		
		F	8-40				
Nov. 20	I	P	14-01-56				Distance 2500 km.
		SN	14-06-04				
		eL	14-09.4	26			
		L	14-12	14			
		L	14-17	12			
		F	14-42				
Nov. 21	I	e	18-52				
		L	18-53.3	15			
		L	18-54	8			
		F	19-05				
Nov. 22	I	e	10-26-50				
		L	10-27.4	16			
		L	10-29	7			
		F	10-37				
Nov. 25	I	e	19-49-00				Very strong microseisms mask P.
		L	19-50	10			
		M	19-50.3	10	10	10	
		F	20-05				

Alto Rohlf

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.

From Dec. 1 to Dec. 22, 1911.

DATE 1911	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE		DISTANCE km.	REMARKS
				<i>A_E</i> μ	<i>A_N</i> μ		
Dec. 4	G L F	15-00 15-04 15-17	20				
Dec. 6	P S L F	23-12-38 23-20-47 23-30 23-40 24-03	5 20 17-18			6600	No maximum.
Dec. 16	P PR S L L F	19-21-18 19-22-30 19-26-53 19-32 19-41 20-16 22-0	5 40 11-13	330	230	3800	Quake near Acapulco Mexico.
Dec. 20	eP? L L L F	6-01-27 6-10-04 6-19-6 6-25 6-30 to 6-50 7-40	40 28 17-13			7000?	No maximum.
Dec. 22	P S L MN ME F	13-01-52 13-07-31 13-10 13-20 13-22.1 14-05	4 5 14 12 12	50	20	3850	In Mexico.

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OTTAWA

Earthquake Station, Dominion Astronomical Observatory

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

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

From Dec. 23

to

Dec. 31, 1911.

DATE 1911	PHASE	TIME	PERIOD	AMPLITUDE		DISTANCE	REMARKS
				A_E	A_N		
		h. m. s.	s.	μ	μ	km.	
Dec. 23	P?	19-53-44					
	S?	20-03-06				2850	
	L	20-04.7	14				
	M	20-06	10-8	20	20		
	F	20-16					
Dec. 23	P	21-09-08					
	PR ₁	21-12-10				7000	
	PR ₂	21-13-32	5				
	S	21-17-36					
	SR ₁	21-21-56					
	L	21-24.4 to 21-32	24-15				
F	22-02						
Dec. 29	eL	16-01	40				
	L	16-04.5	20				
	F	16-22					
Dec. 31	eL	7-06					
	L	7-13	23				
	L	7-20	20				
	F	7-40					

Otto Neuhof