

RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory

OTTAWA, CANADA



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

to

DATE 1907	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					A _E	A _N	
			h. m. s.	s.	μ	μ	
Jan 12	I	P	0 04 36	4	3	4	Earthquake reported from Vancouver, B.C.
		F	0 22				
Jan 12	I	L	10-26				
		F	10 37				
Jan 12	I	e	12 30				
		m	12 35	12-16	4	2	
		F	12 55				
Jan 21	I	e	21-43				No phase recognizable
		m _H	21-47 30	6.1		5	
		m _L	21-48 40	6.7	6		
		F	22-05				
Jan 23	I	P	3-01-13				Epicentre estimated at 9400 km.
		L	3-11-47				
		L	3-32	24		6	
		m _H	3-35	24			
		m _L	3-37	27	8		
		F	4-30				

RECORD

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LATITUDE 45° 23' 38", LONGITUDE 75° 42' 57" or 5^h 02^m 51^s.8 W. Greenwich.
 TIME: Mean Greenwich, midnight to midnight.
 INSTRUMENTS: Two Bosch photographic horizontal pendulums.
 NOMENCLATURE: Göttinger.

From *February 1* to *February 28-1909*

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					A _E	A _N	
			h. m. s.	s.	μ	μ	
<i>Feb 8</i>	<i>I</i>	<i>e</i>	<i>12-01</i>				<i>well-marked micro-seisms present.</i>
		<i>L</i>	<i>12-06</i>	<i>20</i>			
		<i>Z</i>	<i>12-21</i>				
<i>Feb 16</i>	<i>I</i>	<i>P</i>	<i>16-31-20²</i>				<i>Epicentre 8400 km</i>
		<i>L</i>	<i>16-54-20</i>	<i>6</i>			
		<i>M_N</i>	<i>16-55-00</i>	<i>6</i>		<i>30</i>	
		<i>M_E</i>	<i>16-55-40</i>	<i>7</i>	<i>40</i>		
		<i>Z</i>	<i>17-35</i>				
<i>Feb 22</i>	<i>I</i>	<i>P</i>	<i>9-40-00</i>				<i>microseisms present. Epicentre 3500 km.</i>
		<i>L</i>	<i>9-45-06</i>				
		<i>L_E</i>	<i>9-48-29</i>	<i>7</i>			
		<i>M</i>	<i>9-52-40²</i>	<i>7</i>	<i>20</i>		
		<i>Z</i>	<i>11-20</i>				
<i>Feb 26</i>	<i>I</i>	<i>P</i>	<i>16-53-35²</i>				<i>well-marked micro-seisms. Epicentre 3900 km</i>
		<i>L</i>	<i>16-59-16</i>				
		<i>L</i>	<i>17-01-23</i>				
		<i>M</i>	<i>17-05-12</i>	<i>12</i>	<i>50</i>		
		<i>Z</i>	<i>17-38</i>				

W. H. K. [Signature]

RECORD

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OTTAWA, CANADA

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

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From *March 1* to *March 31 - 1909*

DATE 1909	CHAR.	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE		REMARKS
					A_E μ	A_N μ	
<i>March 12</i>	<i>I</i>	<i>e</i>	<i>23-42</i>				
<i>13</i>		<i>L</i>	<i>0-07</i>				
		<i>mE</i>	<i>0-14</i>	<i>20</i>	<i>6</i>		
		<i>A</i>	<i>1-38</i>				
<i>13</i>	<i>I</i>	<i>P</i>	<i>14-42-20</i>				
		<i>L</i>	<i>14-52-40</i>				
		<i>L</i>	<i>15-16-32</i>	<i>20</i>			
		<i>m</i>	<i>15-19-30</i>	<i>27</i>	<i>6</i>		
		<i>A</i>	<i>17-00</i>				
<i>18</i>	<i>I</i>	<i>eL</i>	<i>0-03-40</i>	<i>24</i>			<i>Irregularities due to wind, and microseisms mask the phases</i>
		<i>A</i>	<i>0-20</i>				

O. H. Bloss

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OTTAWA, CANADA

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

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From **April 1** to **April 23, 1909.**

DATE 1909	CHAR.	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE		REMARKS
					A_E μ	A_N μ	
Apr. 10	I	P	5-44-38?				
		S	5-53-34?				
		N					
		S	5-55-16?				
		E					
		L	6-16-20				
		N					
		L	6-17-32				
Apr. 10	II	M	6-24	20	2		
		N					
		M	6-26	20		6	
		E					
		F	7-30				
		P	18-56-35	2			
		N					
		S	19-04-24	7			
Apr. 10	II	L	19-14-00				
		E					
		M	19-20	14	10		
		E					
		M	19-22	14		12	
		N					
		M'	20-24	14	6		
		E					
Apr. 16	I	M'	20-27	14		8	
		N					
		F	21				
Apr. 16	I	P?	3-30-38				
		N					
		S?	3-33-20				
Apr. 23	I	F	3-45				
		eL	18-01-40	24			
		F	18-30				

Distance epicentre 6300,
P not recognizable for
E-W component.

Otto Neuhoff

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From ²⁴ Apr. ~~17~~ to Apr. 30, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					A _E	A _N	
909 APR 24	I	P	h. m. s. 13-39-06	s.	"	"	
		S	13-44?				
		L	13-50-50	10			
		M	13-54		5		
		F	14-25				
APR 25	I	P	1-21-10				
		N					
		P	1-21-16				
		E					
		M	1-27-44	5		13	
		N					
		M	1-28-20	5	10		
		E					
		F	2-00				
APR 27	I	P?	13-03-40				
		S?	13-15-36				Strong microseisms present L alone well recognizable.
		i	13-24-40				
		L	13-41-40	2½	3		
		F	14-20				
APR 28	I	P	7-18-42				
		F	7-30				
APR 29	I	o	23-02-40				
		eL	23-48	20			
		M	24-02	20	3		
		F	24-30				

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From **May 1**

to

May 16, 1909.

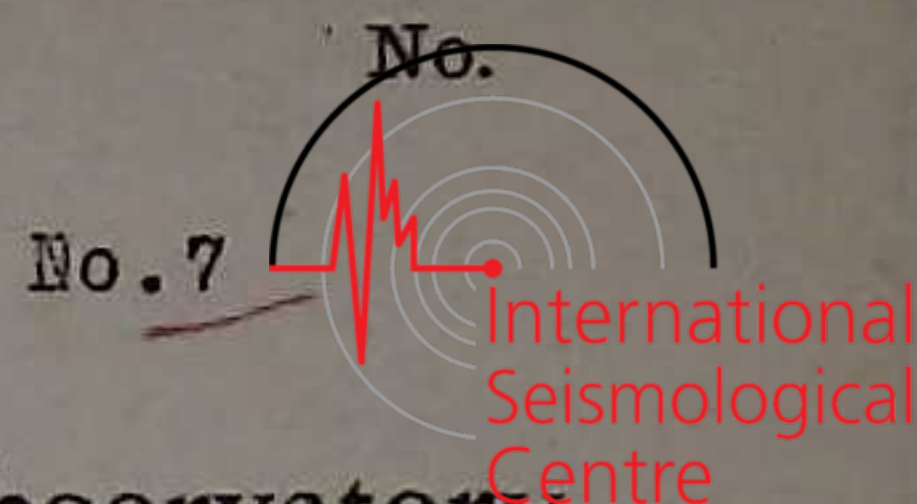
DATE 1909.	CHAR.	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE		REMARKS
					A_E	A_N	
May 2	I	eL	19-14	20			
		M	19-17	20	2		
		F	19-40				
May 5	I	P	2-48-20?				
		S	2-50-40				
		L ?	2-53-20				
		M	2-54	7	17		
		F	3-24				
May 12	I	P	0-14-30?				
		N					
		P	0-15 ?				
		E					
		S	0-21-16				
		L	0-25-14				
May 16	I	M	0-29	7	8		
		E					
		F	1-30				
May 16	I	P	4-18-28				Epicentre 2500 km.
		S	4-22-28				
		L	4-24-20				
		M	4-25-12	7	17		
		F	5-00				

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TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From May 17

to

May 31/09, 1909

DATE 1909	CHAR.	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE		REMARKS
					<i>A_E</i>	<i>A_N</i>	
May 17	II	P	8-13-17	19	100	35	Epicentre 7000 Km
		S	8-21-47				
		L	8-35				
		M _N	8-22				
		M _E	8-23-40				
May 18	II	F	10-12	30	17	Epicentre 4900 Km	
		P	16-58-22				
		S	17-04-55				
		M _N	17-05-30				
May 18	II	M _E	17-08-40	12	8	Epicentre 4900 Km	
		F	18-00				
		P	18-24-52				
		S	18-31-26				
May 23	I	M	18-32-52	13			
		F	19-18				
		P ?	5-39-16				
May 25	I	S ?	5-46-16	20			
		L ?	5-50-36				
		eL	6-15				
May 26	I	F	5-43	20			
		e	6-24				
"	I	eL	2-30	20			
		F	3-05				
"	I	e	3-40				
		e	13-03.5				
"	I	e	14-27.5				
		e	14-45.5				
May 30	I	eL	6-57	8			
"	I	P	21-24				
		S	21-30				
		L	21-34				
		F	22-10				

Otto Mohr

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OF THE

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OTTAWA, CANADA.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 pendul Nos. 8

NOMENCLATURE: Göttinger.

From June 1 to June 8, 1909.

DATE 1909	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					<i>A_E</i>	<i>A_N</i>	
			h m s.	s.	"	"	
June 3	II	P	19-02-40				
		N					
		P	19-03-24				
		E					
		S ?	19-15-13				
		N					
		S ?	19-21				Long waves well shown
		E					
		eL	19-30	22			
		N					
		eL	19-37	20			Korinchi Earthquake, Sumatra ?
		E					Epicentre 15,200 km.
		L	19-41	22			
		N					
		L	19-42	52			
		E					
		L	19-46	66			
		E					
		L	19-49	38			
		N					
		M	20-03-30	18-20	17	17	
		F	21-15				
June 6	I	e	5-49				
		eL	5-55				
		L	5-59	20			
		F	6-10				
June 8	I	P	5-57-52				
		S	6-07-09		22	10	
		eL	6-19-34	34			
		E					
		M	6-21	34	10		
		E					
		M	6-30			10	
		N					
		L	6-30	18			
		E					
		F	8-00				

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OTTAWA, CANADA.

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

TIME: Mean Greenwich, midnight to midnight.

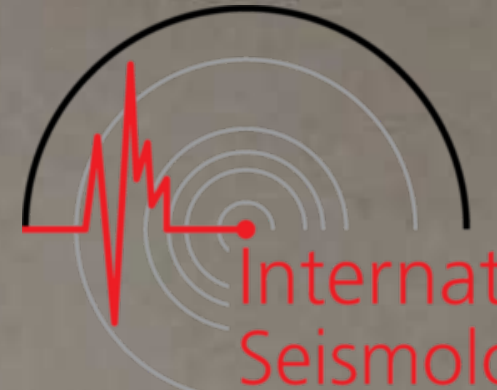
INSTRUMENTS: Two Bosch photographic horizontal pendulums. No. 9

NOMENCLATURE: Göttinger.

From June 9 to June 30, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					A _E	A _N	
			h. m. s.	s.	"	"	
June 9	I	P	0-34				
		S	0-48-07				
		L	1-08				
		M	1-12	18		2	Epicentre 13000 + km.
		N					
		M	1-12	16	1		
		E					
		F	1-38				
June 11	I	eL	20-40				No other phases recognizable. Earthquake south of France.
June 12	I	P	20-40				
		eL	21-36	24			
		E					
		eL	21-42	18			
		N					
		L	21-40	20			
		E					
		F	22-24				
June 13	I	P	13-15-42				
		S	13-25-00	5-7	6	2	Epicentre 8000 km.
		L	13-38	20			
		M	13-49		1		
		F	14-25				
June 28	II	P	7-33-36				Epicentre 11,100 km.
		S	7-45-26				
		L	8-14-36	20			
		M	8-20	18	5		
		F	9-15				

Otto Neuberg



RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory, OTTAWA, CANADA.

No. 10

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

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From

to

July 1

July 21, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					<i>A_E</i>	<i>A_N</i>	
1909			h. m. s.	s.	"	"	
July 7	II	P	21-50-42				
		S	22-00-54			25	Epicentre 10,000 km.
		L	22-20	16			
		M	22-22	16	17	10	
		F	23-50				
15	I	P?	13-24-47				
		i S	13-34-00	8	10		No L recognizable.
		F	14-10				
17		i	10-55-21	7	6		
		f	11-10				
20	I	i	18-41-33				
		F	18-46				
21	I	P?	4-07-17				
		F	4-20	7	3		
		F	4-50				

Otto Neuhoff

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

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

No. 11

From July 21

to July 31, 1909

DATE 1909	HAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					<i>A_E</i>	<i>A_N</i>	
July 25	I	e	h. m. s. 1-55-30	s.	"	"	.
		F	3 02				
25	I	e	7-56-20				
		i	8-02-30				
		M	8-17	8	2		
		F	8-57				
30	II	i	11-58-44	5			Quake in Mexico
		S	11-04-18				Epicentre 3750 km.
		L	11-07-40				
		M	11-15	24	167		
			13				
31	I	e	10 00				
		F	10-23				
31	II	i P	19-25-48				
		S	19-31-20				
		L	19-38				Epicentre 3750
		M	19-42	24	50		Mexico
		F	21-25				

Otto Neuhoff

RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory, OTTAWA, CANADA.



International
Seismological
Centre

No. 12

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 Aug. 1 to Aug. 16, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					A _E	A _N	
			h m s.	s.	"	"	
1909							
Aug. 1	I	e	21-43	7			
		F	23-23				
Aug. 7	I u	e	17-07-22				
		S ?	17-17-40				
		M	17-48	20	2		
		F	18-45				
Aug. 14	I u	P	6-54-46				
		L ?	7-16	36			Earthquake in Japan Epicentre 10,600 km.
		L	7-21-40	19			
		L	7-22-20				
		M	7-31	16	9	6	
		F	8-13				
Aug. 16	II	P	7-06-13	4			
		S	7-12-11				
		L	7-18-13				Epicentre 4700 km.
		M	7-18-30	20	85		
		M N	7-20-30	17		33	
		F	8-32				

Otto Klobb



RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory,

OTTAWA, CANADA.

No. 13

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 Aug. 18 to Aug. 31, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					A _E	A _N	
			h. m. s.	s.			
1909							
Aug. 18	I	P	1-00-09				
		S	1-10-14				
		L	1-36				
		M	1-42	21	10		
		F	2-27				
Aug. 31	I	P	12-04-29				Microseisms present
		E	12-04-43				
		I	12-04-43				
		S	12-10-24				No. 15
		M	12-11-08			8	
		N	12-11-20				
		M	12-11-20			25	Epicentre 3900 km.
		E	12-14	15			
		L	12-14				
		F	13 Aug. 18				Aug. 31, 1909.
1909							
Aug. 18	I	P	1-00-09				
		S	1-10-14				

Handwritten signature in blue ink.

RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory,
OTTAWA, CANADA.

No. 14

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

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From Sep. 1

to

Sep. 30, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					<i>A_E</i>	<i>A_N</i>	
1909			h m s.	s.	"	"	
ep. 8	I u	i P	16-59-25				
		i S	17-07-19				Epicentre 6400 km.
		L	17-14				
		N					
		L	17-16				
		E					
		M	17-18	22		10	
		N					
		M	17-22	20	27		
		E					
		F	20				
ep. 16	I u	e S?	20-01-50				Microseisms mask record
		e L	20-25	20			
		F	20-45				
Sep. 19	I u	e	20-28				
		M	20-45		37	14	
		F	21-20				

W. B. B.



RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory,
OTTAWA, CANADA.

No. 15

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 Oct. 1 to Oct. 18, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					<i>A_E</i>	<i>A_N</i>	
1909							
			h m s.	s.	"	"	
Oct. 2	I	e	8-11-17				
Oct.		F	8-22				
Oct. 3	I	e	15-08				
		M	15-11		4		
		F	15-20				
"	I	e	17-06-22				
		M	17-13-40		4		
		F	17-23				
"	I	e	21-03-21				
		M	21-07-30		12		
		F	21-21				
Oct. 18	I	e	8-36				
		M	8-49		18		
		F	9-25				

Otto Klobb



RECORD

OF THE

 Earthquake Station, Dominion Astronomical Observatory,
 OTTAWA, CANADA.

No. 16

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

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From Oct. 19 to Oct. 31, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					<i>A_E</i>	<i>A_N</i>	
1909			h. m. s.	s.	"	"	
Oct. 21	I	e	0-06				
		eL	0-27				
		M	0-33	25	3	1	
		F	1-30				
Oct. 29	I	e	7-00				Earthquake Eureka, California
		M	7-06-52	10	12	10	
		F	7-30				
Oct. 31	II	P	10-30	4			Relay to cut off light for time-scale failed after 7 h. G. M. T. - Hence time for P is assumed, and other phases based thereon.
		P R	10-31-27				
		S	10-35-40				
		e L	10-39-20				
		L	10-40-44	40			
		M	10-45-04			25	
		N					
		M	10-46-00		42		Epicentre 4000 km.
		E					
		F	11-30				

Otto Neuhoff

RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory,
OTTAWA, CANADA.LATITUDE 45° 23' 38", LONGITUDE 75° 42' 57" or 5^h 02^m 51^s.8 W. Greenwich.

TIME: Mean Greenwich, midnight to midnight.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

No. 17

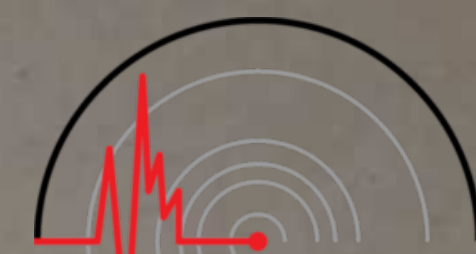
From Nov. 1 to Nov. 30 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					<i>A_E</i>	<i>A_N</i>	
1909			h m s.	s.	"	"	
Nov. 10	I	e P	6-41				
		i	6-47-13				Microseisms prevailed
		e L ^H	6-47-26	14			No distinct M.
		L	6-49	15			
		L	7-00 to 7-12	21			
		F ^E	8-25				
Nov. 14	I	e P	11-58-48				
		F	12-20				
Nov. 21	I	e L	8-33	22			Strong microseisms
		F	9-06				present and mask
							other phases.
Nov. 22	I	i S?	19-52-22				
		e L	20-02	8			Microseisms mask
		L	20-15	13			phases.
		F	21				

Otto Klotz

RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory,
OTTAWA, CANADA.International
Seismological
Centre

10. 18

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.

NOMENCLATURE: Göttinger.

Dec. 1

Dec. 9, 1909.

From

to

DATE 1909	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					A_E	A_N	
Dec. 4	I	P	^{h.} ^{m.} ^{s.} 1-21-29	s.	"	"	
		S	1-27-07	6			
		L	1-31	10			
		M	1-38	10	6	3	
		F	2-10				
Dec. 9	II	P	15-54-18				
		S	15-59-44				
		L	16-04-13	11			Epicentre 3800 Mi.
		M	17-00	16	8	4	
		F	18-10				
"	I	i	22-09-08				
		L	22-23	12			
		F	23-20				
"	I	P?	23-46				
		iS?	23-57-30				
		L	24-20	51			
		F	25-21				

Otto Neuhoff

RECORD

OF THE

Earthquake Station, Dominion Astronomical Observatory,
OTTAWA, CANADA.International
Seismological
Centre

No. 19

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.

INSTRUMENTS: Two Bosch photographic horizontal pendulums.

NOMENCLATURE: Göttinger.

From Dec. 10 to Dec. 31, 1909.

DATE	CHAR.	PHASE	TIME	PERIOD	AMPLITUDE		REMARKS
					A_E	A_N	
1909.			h. m. s.	s.	"	"	
Dec. 10	I V	i	6-24-10	1	8	8	Local shock. Windows rattled. People awakened. Noise resembled that of rapidly moving heavy drag.- Duration 0.8. Acceleration 31 millegals.
Dec. 22	I	eL	10-40	10			
		F	10-49				
"	I	eL	13-52	16			
		H	14-00	16	5		
		F	14-20				

Otto Neuhof