

No.

VICTORIA, B.C.**SEISMOLOGICAL BULLETIN**

LATITUDE

48° 24' N.

LONGITUDE

123° 19' W.

HEIGHT

222 feet above sea level

Apparatus: Milne horizontal pendulum, North.

SUBSOIL

Rock
International
Seismological
Centre

	T_o	$\frac{r}{T_o^2}$
A_E :		

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
January.	(cont)	H.M.S.			MM			
31st.	P	23 45 26						
	L	23 46 55						
	M	23 47 35			1.0		615	
	F	0 03 47						
VERTICAL SEISMOGRAPH.								
December	1918.	H.M. S.					μ	
4th	P	12 00 44						
	S	12 10 40						
	L	12 29 00						
	M	12 41 00				9	8710	Copiapo, Chili.
	F	13 26 00						
6th.	P	8 41 44	2s.					
	S & L	8 42 28	4s.					
	M	8 42 40	8s.			490	320	Off W.coast of Vancouver Is.
	F	9 29 00						
6th.	P	12 03 32	2s.					
	S & L	12 04 08	4s.					
	M	12 04 24	4s.			71	270	" "
	F	12 16 00						
January 1919.								
1st.	P	3 11 12	2-3s					
	S	3 13 04	4-6s					
	L	?						
	M	3 26 00	24s.			143	1040	
6th.	L	23 06 00	24s					
	M	23 11 00	20s			3		
17th.	P	12 09 00	2s.					
	L	?						
	M	12 12 30	10s.			3		
31st.	P	23 45 12	3s.					
	L	23 46 34	8s					
	M	23 47 20	20s			6	600	
	F	0 00 00						

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A_E :	

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
1919. January.		H. M. S.			mm			
1st.	P	1 47 32						
	S	1 57 53						
	L	2 11 50						
	M	2 41 05			1.4		9220	F lost in second
	F	?						quake.
1st.	P	3 11 00						
	S	3 13 19						
	L	3 17 17						
	M	3 22 44			6.3		1310	
	F	6 05 23						
5th.	L	20 39 59						
	M	20 43 25			0.2			
	F	20 51 17						
6th.	P	22 47 55						
	S	22 53 49						
	L	23 03 40						
	M	23 16 27			2.0		4120	
	F	00 17 28						
7th.	P	00 44 28						
	S	00 47 25						
	L	00 51 21						
	M	00 59 13			0.3		1710	
	F	01 15 57						
8th.	P	2 17 08						
	L	2 21 36						
	M	2 24 34			0.4			
17th.	P	12 09 07						
	L	12 10 35						
	M	12 12 04			2.4		660	
	F	12 22 53						
27th.	L	21 50 47						
	M	21 58 14			0.2			
	F	22 23 01						

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18	1 MM=0.54
A_E :	

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
March.		H. M. S.			MM.			
2nd.	P	3 50 46						
	S	3 58 38						
	L	4 10 27						
	eL	4 17 13						
	M	4 21 46			0.8		6290	
2nd.	F	6 18 19						
	P	12 09 00						
	S	12 16 22						
	L	12 26 46			2.0		5730	
	M	12 40 28						
4th.	F	14 22 16						
	P?	9 03 45						
	M	9 12 36			0.2			
9th.	F	9 27 41						
	P	3 50 34						
	S	3 57 01						
	L	4 04 28			0.5		4720	
	M	4 12 53						
27th.	F	5 59 00						
	Clock stopped from 17 hrs. of the 15th to early morning of 17th.							
	P	16 24 39						
	S	16 31 32						
	L	16 42 50			2.5		5190	
21st.	M	16 54 09						
	F	17 13 50						
	P	18 04 59						
	S	18 11 22						
	L	18 21 12			0.2		4640	
22nd.	M	18 35 28						
	F	18 47 16						
	L.	17 02 37			0.3			
	M	17 08 31						
	F	17 22 47						

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A_E :		

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
March.		H. M. S.	VERTICAL SEISMOGRAPH.					
2nd.	M	4 17 20				μ 1		
2nd.	M	12 40 30	16s.			3		
21st.	L	16 44 00	20s.					
	M	16 48 35	20s.			4.		

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A_E : 18		1 101=0.54

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
APRIL		H. M. S.			MM.			
16th.	P	4 28 55						
	L	4 37 21						
	M	4 40 49			0.1			
	F	4 50 14						
17th.	P	11 35 36						
	S	11 44 31						
	L	12 00 53						
	M	12 15 16			1.2		7500	Japan.
	F	Merged into next quake.						
17th.	M	13 58 12			0.4			
	F	14 30 03						
17th.	P	21 00 56						
	S	21 07 12						
	L	21 11 20						
	L	21 16 16						
	M	21 24 39			9.5		4530	S.Mexico.
	F	23 11 45						
18th.	P	21 10 26						
	S	21 13 23						
	L	21 19 17						
	M	21 23 42			1.5		1710	Prob.Alaska.
19th.	L	3 18 47						
	M	3 21 15			0.2			
	F	3 27 38						
21st.	L	12 03 01						
	M	12 13 26			0.3			
	F	12 55 05						
22nd.	L	3 24 42						
	M	3 33 33			0.2			
	F	4 07 00						
23rd.	P?	7 47 35						
	L	7 58 31						
	M	8 05 38			0.2			
	F	8 20 52						

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	T_o	$\frac{r}{T_o^2}$
A_E :	18	1 MM-0.54

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
April (Contin) H.M.S.					MM.			
27th	L	1 13 48						
	M	1 18 43			0.2			
	F	1 35 55						
28th	L	7 10 29						
	M	7 17 26			0.6			
	F	7 42 43						
30th	P	7 29 14						
	S	7 36 37						
	L	7 48 54						
	M	8 03 11			34.5	5750	Probably S.America.	
	F	13 28 15						
30th	Light off from 16 43 45 to 17 45 33 when quake ^{missed} occurred.							
<u>VERTICAL SEISMOGRAPH</u>								
17th	P	21 01 03	4s.					
	S	21 06 43	8s.			μ		
	L	21 15 27	20-24s.					
	M	21 23 43	24s.			29	3870 S.Mexico.	
30th	P	7 29 00	4s					
	S	7 36 00	12s					
	L	7 53 12	24s					
	M	8 00 30	24s			29	5320 Prob.S.America	

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18		1 MM=0.54
A_E :		

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
May		H.M. S.			MM			
1st.	L	6 25 53						
	M	6 30 18			0.1			
	F	7?13 35						
1st.	L	16 10 42						
	M	16 16 36			0.1			
1st.	L	22 09 14						
	M	22 14 38			0.2			
	F	22 24 28						
2nd.	P	2 29 37						
	L	2 41 33						
	M	2 50 28			2.4			
	F	5 01 52						
2nd.	M	7 06 18			0.05			
3rd.	P	1 01 55						
	S	1 10 51						
	L	1 24 44						
	M	1 30 02			3.5		7530	
	F	4 11 51						
4th.	L	23?14 58						
	M	23 28 15			0.1			
	F	23 49 23						
6th.	L	4?49 26						
	M	4 54 21			0.3			
	F	5 06 10						
6th.	P	19 56 51						
	S	20 05 13						
	L	20 18 59						
	M	20 37 40			21.0		6860	
	F	1 04 44						

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T_0	$\frac{r}{T_0^2}$
18	
A_E :	

1 MM=0.74

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
May.		H. M. S.			MM			
7th.	P	5 37 43						
	S	5 43 08						
	L	5 52 58						
	M	6 02 49			1.0		4690	
	LRop	7 40 51						
	M	7 44 09						
	M	7 49 27			0.2			
	F	7 52 28						
7th.	M	10 07 15			0.2			Very gradual beginning.
8th.	L	10 47 38						
	M	10 52 33			0.5			
	F	11 00 26						
8th.	M	21 06 53			0.2			
	F	21 13 46						
14th.	M	4 35 06			0.1			
18th.	P	10 28 47						
	L	10 29 17						
	M	10 30 16			1.0		270	Probably off West Coast of Vancouver Is.
	F	10 39 07						
19th.	L	4 32 49						
	M	4 41 40			0.5			
	F	4 52 29						
19th.	M	23 38 45			0.2			
20th.	P	4 21 35						
	L	4 22 34						
	M	4 23 33			1.5		550	
	F	4 39 46						
22nd.	L	12 04 54						
	M	12 07 21			0.3			
	F	13 05 23						

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18		1 MM = 0.54
A_E :		

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
		H.M.S.			MM			
23rd.	P	7 06 23			0.25			
	M	7 17 42						
	F	7 29 00						
No further record until 30th, due to paper becoming exhausted.								
VERTICAL SEISMOGRAPH.								
18th.	P	10 28 44	2s			u		
	L	10 29 24	3s.					
	M	10 30 24	5s.			7	360	Probably off West Coast of Vancouver Is.
	F	10 34 08						
20th.	L	4 22 30	16s.					
	M	4 23 34	14s			6		

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18	
A_E :	

1 MM=0.54

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
June.		H.M.S.			MM			
2nd.	P	7 13 13			0.1			May not be a
	M	7 14 02						quake.
10th.	L?	21 03 00			0.1			
	M	21 09 24						
	F	21 14 29						
11th.	M	6?55 09			0.05			May not be quake
14th.	M	8 01 32			0.1			
15th.	L	16?25 24			0.2			
	M	16 27 23						
	F	16 30 51						
15th.	P	17?44 14			0.3			
	M	17 46 13						
	F	17 50 11						
29th.	P or L	1 06 00			0.5			
	M	1 06 59						
	F	1 12 53						
29th.	M	15 51 48			0.2			
	F	?						
29th.	P	23?22 19						
	S	23?28 42						
	L	23 38 03			1.8			
	M	23 48 12						
	F	0 46 14						
30th.	M	8 44 00			0.2			P & L doubt-
	F	9 19 44						ful.

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18		1 MM=0.54
A_E :		

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
July.		H. M. S.			MM.			
1st.	P	21 50 29						
	M	21 51 58			0.5			
	F	22 01 19						
1st.	P	22 05 15						
	L	22 06 14						
	M	22 07 13			0.5			
	F	22 12 08						
2nd.	L	8 25 12			0.05			
	F	8 29 36						
6th.	P?	7 15 53						
	S	7 19 11						
	L	7 24 49						
	M	7 28 47			0.2		1940?	
	F	7 41 09						
7th.	P?	14 21 47						
	L	14 35 17						
	M	14 43 47			0.4			
	F	14 59 47						
8th.	Quake missed. light off the paper.							
9th.	P	19 35 18						
	S?	19 37 46						
	L	19 38 44						
	M	19 01 22			0.4		1410?	
	F	19 48 34						
10th.	P	2 23 03						
	L	2 23 33						
	M	2 24 02			0.3			
	F	2 33 23						
11th.	L?	1 06 56						
	M	1 14 18			0.2			
	F	1 30 02						

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18	1 MM=0.54
A_E :	

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
JULY		H. M. S.			MM			
17th.	S?	16 49 48						
	L	16 53 14						
	M	16 57 10			0.4			
	F	17 18 49						
18th.	P	13 38 20						
	M	13 40 18			0.3			
	F	13 45 03						
22nd.	L?	22 35 02						
	M	22 38 58			0.2			
	F	22 42 54						
24th.	P	2 45 16						
	L	2 50 13						
	M	3 04 07			0.4			
	F	3 23 22						
25th.	L	19 16 37						
	M	19 20 35			0.4			
	F	19 25 03						
31st.	M	7 50 57			0.2			
	F	8 25 52						
31st.	L	21 58 25						
	M	22 00 43			0.05			
	F	22 06 19						
Vertical Seismograph.								
18th.	P	13 38 16	2s.			4		
	L	13 39 46	6s.					
	M	13 40 36	6s.			7	660	
	F	13 49 46						

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A_E :	18	1 MI=0.54 //

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
AUGUST		H. M. S.						
18th.	L	0 41 00						
	F	0 45 12						
					0.05			Minute thickening
18th.	M	17 17 06						
	F	18 07 46			0.3			
24th.	M	5 16 30						
	F	5 47 30			0.3			
24th.	M	12 43 40						
	F	12 49 00			0.1			
27th.	P	5 42 19						
	S	5 46 45						
	L	?						
	M	6 08 24						
	F	6 56 05			0.9			
29th.	P	6 02 03						
	S?	6 08 27						
	L	6 12 00						Phases well
	M	6 12 23						defined.
	L	6 18 54			0.7			
	F	?						
29th.	L	6 34 30						
	M	6 42 22						Phases well
	F	8 30 34			1.5			defined.
29th.	P	14 34 33						
	M	14 40 27						
	F	14 46 21			0.05			
31st.	P	0 29 12						
	L	0 34 36						
	M	0 37 32						
	F	0 45 25			0.5			

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$A_E:$	18		1 mm-0.54

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
Aug. 31st.	P	H. M. S. 17 27 48						
	S	17 33 42						
	L	17 43 32						
	M	18 12 34			1.5			
	F	20 13 03						
SEPTEMBER								
1st.	L	20 04 46						
	M	20 07 13			0.3			
	F	20 13 07						
6th.	P	9 49 48						
	L	9 58 10						
	M	10 05 04			0.5			
	F	10 38 59						
13th.	P	12 32 30						
	S	12 41 21						
	L	12 53 39						
	M	13 11 22			0.5			
	F	13 58 34						
15th.	P	17 46 20						
	S	17 47 19						
	L	17 49 08						
	M	17 50 46			0.4			
	F	17 59 38						
19th.	M	3 40 11			0.2			
	F	3 49 02						
22nd.	L	11 36 32			0.05			Doubtful as to being seismic.
26th.	L	20 04 50						
	M	20 13 41						
	F	22 07 47			0.4			Probably Honolulu

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$A_E:$		
18		1 mm = 0.54"

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
Sept. (Cont'n)		H.M.S.						
27th.	M	4 08 23			0.1			
	F	4 14 46						
30th	P	7 45 52						
	L	7 47 50						
	M	7 49 17			0.3			
	F	7 54 12						

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18	1 mm = 0.54
A_E :	

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
OCTOBER.		H.M. S.			MM.			
1st.	P	19 40 25						
	M	19 42 33			0.2			
	F	19 47 28						
3rd.	P	10 00 29						
	S?	10 13 51						
	L	10 18 41						
	M	10 27 32			0.4			
	F	11 11 18						
8th.	P?	5 04 53						
	L	5 23 34						
	M	5 35 22			0.8			
	F	7 14 43						
10th.	P	1 08 01						
	L	1 09 00						
	M	1 09 30			1.0		450	
	F	2 54 14						
12th.	L	23 09 48						
	M	23 11 16			0.2			
12th.	M	23 51 06			0.2			
	F	00 14 43						
14th.	M?	12 04 32			0.05			May not be seismic.
21st.	L?	22 09 15						
	M	22 15 09			0.4			
	F	22 32 51						
27th.	L	4 22 17						
	L	4 23 35			0.1			Small, but marked.
	F	4 28 17						

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T_0	$\frac{r}{T_0}$
18	
A_r :	

1 MM=0.54

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
NOVEMBER		H. M. S.			MM.			
6th.	P?	7 47 51						
	M	7 51 47			0.3			
	F	8 03 36						
14th.	P	6 57 06						
	L	6 58 35						
	M	7 02 32			0.3		656?	
	F	7 16 18						
18th.	P	4 23 04						
	S	4 31 26						
	L	4 45 41						
	M	4 54 47			0.5		6860	
	F	5 17 10						
18th.	P?	22 29 32						
	S	22 34 27						
	L	22 40 51						
	M	22 48 13			0.5		3170?	S may be L wave.
	F	23 25 06						
20th.	P	14 24 15						
	S	14 27 52						
	L?	14 34 05						
	M	14 37 32			0.4		2160	
	eL	14 56 52						
	F	15 25 14						
20th.	M	16 43 56			0.2			
	F	17 00 40						

Ja. Young

No.

19 19

VICTORIA, B.C.
SEISMOLOGICAL BULLETIN

LATITUDE
48° 24' N.

LONGITUDE
123° 19' W.

HEIGHT
222 feet above sea level

Apparatus: Milne horizontal pendulum, North.



T_0	$\frac{r}{T_0^2}$	
18		1 MM=0.54
A_e :		

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
NOVEMBER (Con.) H.M.S.					MM.			
23rd.	P	6 23 31						
	S	6 30 24						
	L	6 38 16						
	M	6 46 38			0.4		5200?	
	F	7 09 45						
28th.	P?	14 04 28						
	M	14 35 27			0.2			Asia Minor?

Victoria, B.C.

SEISMOLOGICAL BULLETIN



LATITUDE

48° 24' N.

LONGITUDE

123° 19' W.

HEIGHT

222 22 feet above sea level

SUBSOIL

Rock.

Apparatus: Milne horizontal pendulum, North.

	T_o	$\frac{R}{T_o^2}$	
	18		1 mm = 0.54
A_E :			

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			$\triangle$	Remarks
				A_N	A_E	A_Z		
DECEMBER		H. M. S.			MM			
3rd.	P	2 26 26						Off Pt. Estevan. Felt there and at Alert Bay Wireless Station.
	L	2 26 55						
	M	2 27 25			0.1		215	
	F	2 30 21						
5th.	P	0 32 28						2760
	S	0 37 03						
	L	0 41 29						
	M	0 43 56			0.2			
	F	0 55 44						
12th.	P	4 22 16						0.2
	M	4 26 42						
	F	4 35 03						
14th.	P	1 32 02						0.2
	S	1 39 24						
	M	2 00 04						
	F	2 29 05						
14th.	M	3 34 29			0.05			
15th.	P?	20 16 59						0.2
	M	20 18 57						
	F	20 25 50						
18th.	P?	0 12 21						0.05
	M	0 20 13						
	F	0 25 08						
18th.	P	1 34 58						0.3
	L	1 38 54						
	M	1 41 21						
	F	1 49 43						
20th.	P	21 00 50						
	S	21 06 18						
	L	21 15 43						
		(continued)						

SEISMOLOGICAL BULLETIN



LATITUDE
48° 24' N.

LONGITUDE
123° 19' W.

HEIGHT
222 feet above sea level

SUBSOIL
Rock.

Apparatus: Milne horizontal pendulum, North.

	T_o	$\frac{R}{T_o^2}$	
A_E :	18		1 mm = 0.54"

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			$\triangle$	Remarks
				A_N	A_E	A_Z		
DECEMBER		H. M. S.			MM			
20th (continued)								
	M	21 29 36			0.5		3670	Marked micros from 20h29m to 20h44m.
	L	21 38 50						
	L	22 14 20						
	P	22 43 28						
21st.	M	18 55 28			0.05			May not be seismic.
23rd.	P	0 23 38						
	M	0 32 59			0.1			
	P	0 41 20						
26th.	P	16 56 58						
	M	17 01 24			0.1			
	P	17 09 51						
VERTICAL SEISMOGRAPH.								
3rd.	P	2 24 55	2.5s.			μ		
	L	2 25 35	3s.					
	M	2 25 45	3s.			6	300	off Pt. Estevan.
	P	2 31 30						