

No.

19 20

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

LATITUDE

48° 24' N.

LONGITUDE

123° 19' W.

HEIGHT

222 feet above sea level

Apparatus: Milne horizontal pendulum, North.

SU3801L

International
Seismological
Centre

	T_0	$\frac{r}{T_0^2}$
	16	
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		
January.		H. M. S.				MM.		
1st.	P	2 42 06						
	M	2 46 08				0.1		
	P	2 49 58						
1st.	L	12 46 04						
	M	12 50 59				0.1		
	P	13 21 29						
2nd.	P	13 20 35						
	L	13 22 04						
	M	13 22 23				0.5	665	May be off West Coast.
	P	13 30 25						
4th.	P	4 30 29						
	S	4 34 25						
	L	4 40 49						
	1L	4 45 38						
8th.	M	4 47 42				1.6	2390?	Destructive quake in Mexico.
	P	5 33 56						
7th.	M	9 44 56				0.2		
	P	9 50 53						
12th.	P	14 00 50						
	S	14 06 15						
	L	14 12 38						
	M	14 18 32				0.4	3680	Mexico?
	P	14 53 56						
13th.	P	23 23 32						
	L	23 40 15						
	M	23 45 45				0.7		
	P	1 45 10						
14th.								

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T_0	$\frac{r}{T_0^2}$
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		
January (con.)		H.M.S.			MM			
14th.	P	15 02 25						
	S	15 08 19						
	L	15 19 08						
	M	15 27 29						
	F	17 03 53			0.4		4120	Mexico?
15th.	L	12 28 04						
	M	12 32 29						
	F	12 59 52			0.1			
21st.	M	6 30 47						
	F	6 42 41			0.05			
22nd.	P	21 42 00						
	S	21 48 06						
	L	21 55 46						
	M	22 03 22						
	F	22 43 29			0.5		4330	Probably Mexico?
24th.	P	7 09 16						
	M	7 09 20						
	F	7 24 01			2.0		35	Probably under Strait of Georgia & NE of Victoria.
30th.	P	18 44 23						
	S	18 49 48						
	L	18 54 42						
	M	19 12 30						
	F	19 24 00			0.5		3620?	
30th.	M	20 13 01						
	F	20 24 25			0.4			

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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		
February		H. M. S.			MM.			
1st.	P or							
	L	15?28 43						
	M	15 33 08			0.2			
	F	15?38 03						
2nd.	P	11 35 11						
	S	11 46 00						
	L	12 05 41						
	M	12 10 36			7.5		9790	
2nd.	P & S merged	into former quake.						Quake occurred at Minas Geraes, Brazil. Severest on record for that region.
	L	13 45 31						
	M	13 48 57			4.0			
	F	16 07 39						
2nd.	P	16?57 20						
	M	17 32 45			0.4			
	F	18 01 46						
3rd.	P	7?18 31						
	M	7 24 55			0.2			
	F	7 33 46						
3rd.	P	15?37 13						
	M	15 42 08			0.1			
	F	15 48 02						
3rd.	P or							
	L	20?23 28						
	M	20 29 52			0.1			
	F	20?36 45						
7th.	P	12?13 24						
	L	12 15 51						
	M	12 20 46			0.4			
	F	12 33 56						

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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		
		H. M. S.			MM.			
7th.	P	15 40 27						
	L	15 48 49						
	M	16 08 59			0.4			
	F	16 58 09						
8th.	P	6 32 38						
	L	6 40 01						
	M	6 42 58			0.4			
8th.	P	7 01 41						
	L	7 07 35						
	M	7 11 01			0.2			
	F	7 35 07						
10th.	P	9 36 04						
	S	9 42 01						
	L	9 50 27						
	M	9 58 02			1.0		4180	
10th.	M	10 47 34			0.4			
	F	11 08 14						
10th.	P	22 15 48						
	S	22 23 16						
	L	22 33 39						
	M	22 40 35			2.0		5850	
	F	0 55 57						
15th.	L	16 06 43						
	M	16 09 40			0.2			
	F	16 21 28						
20th.	S	12 27 18						
	L	12 34 11						
	M	12 47 57			0.1			
	F	12 58 46						May be quake reported in Spain.
22nd.	P	17 52 12						
	S	17 55 07						
	L	17 58 33						
	M	17 59 31			0.2		1720	
	F	18 09 22						

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T_0	$\frac{r}{T_0^2}$
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.			
25th.	P	23 16 15						
	S	23 20 17						
	L	23 25 40						
	M	23 31 37			0.2		2460	
27th.	P	7 35 54						
	M	7 57 02			0.3			
28th.	P	19 02 33						
	L	19 18 46						
	M	19 28 36			0.4			
VERTICAL SEISMOGRAPH.								
2nd.	P	11 35 25	3s.					
	S	11 46 00	12s.					
	L	12 04 45	16s.					
	M	12 13 40	17s.			70	9700	
2nd.	M	13 42 00	23s.			60		
10th.	M	22?40	12s.			6		

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

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
VERTICAL SEISMOGRAPH.								
January.		H. M. S.						
2nd.	P	13 20 10	2s.					
	S & L	13 21 20	7s.					
	M	13 23 00	8s.				4	520 May be off W. Coast
4th.	P	4 29 25	2s.					
	S	4 34 20	6s.					
	L	4 43 30	12s.					
	M	4 47 46	10s.				4	3170 Destructive quake in Mexico.
24th.	P	7 09 16	1s.					
	L	7 09 18	2s.					
	M	7 09 20	2s.				214	35 Probably under Strait of Georgia & NE of Victoria.
	F	7 12 30						

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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		
March		H. M. S.			MM			
9th.	M	4 51 35			0.2			
11th.	M	12 53 44			0.05			
11th.	M	19 20 49			0.05			
12th.	M	16 05 46			0.2			
	L	16 26 54						
12th.	S? or							
	L	18 17 34						
	M	18 27 24			0.3			
	L	18 37 43						
13th.	L?	4 40 43						
	M	4 47 36			0.3			
15th.	P	12 19 25						
	S	12 28 16						
	L	12 39 35						
	M	12 48 55			0.5		7420	Probably Japan or Peru.
	F	13 28 16						
20th.	L?	0 03 17						
	M	0 14 06			0.3			
	F	0? 23 56						
20th.	L	17 42 39						
	M	17 43 38			0.2			
20th.	L	17 52 00						
	M	17 53 28			1.0			
	F	18 24 28						
20th.	P	18 45 07						
	S	18 54 27						
	L	19 06 16						
	M	19 14 38						
	LRep	21 05 23			2.0		8000	Probably Japan or Peru
	F	21 21 17						

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18	
A_E :	

1 MI = 0.54

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A_N	A_E	A_Z		
March continued		H. M. S.			MI			
22nd.	M	0 06 22			0.1			
	F	0 18 10						
22nd.	M	2 23 05			0.3			
	F	2 41 46						
22nd.	P?	20 22 10						
	L	20 36 26						
	M	20 43 10			0.4			
	F	21 07 28						
23rd.	P	15 35 16						
	L	15 43 11						
	M	15 46 40			0.4			
	F	15 59 34						
29th.	P	5 09 15						
	L	5 09 44						
	M	5 11 13			17.5		220	
	F	6 17 36						
VERTICAL SEISMOGRAPH.								
29th.	P	5 09 04	2-5s.					Prob. in E.
	L	5 10 29	10s.					Washington
	M	5 10 59	15s.				630	or W. Montana.

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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		
APRIL		H. M. S.			MM.			
2nd.	P	1 43 31						
	M	1 54 20			0.2			
	F	2 15 00						
2nd.	M	7 53 00			0.2			
	F	7 58 46						
2nd.	P	15 37 38						
	M	15 56 49			0.3			
	F	16 13 13						
6th.	P	16 57 16						
	L	17 03 40						
	M	17 07 36			0.5			P may be S phase
	F	17 26 47						
6th.	S?	19 18 26						
	L	19 23 51						
	M	19 31 43			0.5			
	F	20 24 20						
6th.	M	21 25 19			0.1			May not be seismic.
	F	21 27 17						
9th.	P	15 07 08						
	M	15 14 04			0.2			
	F	15 21 01						
10th.	M	8 36 49			0.1			
11th.	P	23 14 11						
	L	23 20 35						
	M	23 27 28			0.2			P may be S phase.
	F	23 37 18						
16th.	L	22 41 06						
	M	22 50 27			0.2			
	F	23 22 25						

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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		
April		H. M. S.			MM			
18th.	L	21 14 51			0.4			
	M	21 16 20						
	P	21 24 46						
19th.	P	21 15 50						
	S	21 19 17						
	L	21 24 12						
	M	21 29 36			1.0		2030	
	P	21 53 12						

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	T_0		$\frac{r}{T_0^2}$
A_r :	18		1 MM-0.54

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 56 09						
	S	6 05 01						
	L	6 17 18						
	M	6 32 03				0.5	7440	
	F	8 18 47						
7th.	P	21 53 43						
	S	22 00 37						
	L	22 10 57						
	M	22 18 49				0.3	5230	Very clear
	LRep	23 51 07						record.
	L	23 56 37						
	M	0 00 37				0.4		
	F	0 47 49						
8th.	P	21 06 33						
	M	21 11 58				0.2		
	F	21 23 16						
8th.	P	23 20 19						
	M	23 21 48				0.1		May not be
	F	23 25 14						seismic
9th.	P	8 39 32						
	M	8 44 56				0.2		
	F	8 51 49						
10th.	P	19 12 05						
	S	19 20 26						
	L	19 32 14						
	eL	19 41 04						
	M	19 43 33				0.9	6840	
	F	21 13 33						

Jay Young

Victoria, B.C.

SEISMOLOGICAL BULLETIN



International
Seismological
Centre

LATITUDE

LONGITUDE

HEIGHT

SUBSOIL

48° 24' N.

123° 19' W.

222 feet above sea level

Rock.

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		
May	(continued)	H. M. S.			MM			
13th.	P	2 13 13						
	S	2 19 07						
	L	2 29 56						
	M	2 37 18			3.0		4120	
	LRep	4 09 50						
	F	4 39 01						
14th.	P	18 23 51						
	M	18 26 20			0.2			
	F	18 38 44						
19th.	P or							
	L	13?33 51						
	M	13 38 17			0.1			
20th.	P	7 39 09						
	S	7 49 04						
	L	8 01 57						
	M	8 12 52			0.5		8700	May be near
	F	10 21 13						Guam.
22nd.	L	17 42 21						
	M	17 48 48			0.5			
	F	17 58 13						
26th.	P or S	12 44 45						
	L	12 57 04						
	M	13 02 00			0.5			
	F	13 26 55						
27th.	M	6?21 14			0.05			May be due to
								light variations
30th.	P	20 58 53						
	L	21 02 50						
	M	21 04 48			0.4			
	F	?						

Jay Young

Victoria, B.C.

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HEIGHT

222 feet above sea level

SUBSTATION

Rock.

International
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	T_o	$\frac{R}{T_o^2}$
	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	22 10 27						
	S	22 13 24						
	L	22 16 51						
	M	22 19 48			2.25		1710	
	F	22 37 30						
4th.	P	15 34 10						
	L	15 39 05						
	M	15 43 01			0.2			
	F	15 58 16						
5th	P	4 33 13						
	S	4 44 02						Prob. S. Pacific
	L	5 03 14						and about Guam.
	M	5 23 23			2.75		9800	
	eL	5 32 11						P minute, S fairly
	eL	6 02 47						large.
	eL	6 36 05						
	F	7 46 00						
7th.	P	4 16 17						P may be S
	L	4 17 53						phase.
	M	4 18 42			0.1			
	F	4 24 07						
9th.	P?	11 52 19						
	S	11 58 05						
	L	12 05 29						
	M	12 26 37			0.6		3980	
	F	13 44 11						
18th	P	10 14 23						
	L	10 17 20						Quake reported
	M	10 19 18			0.3		1740	at Los Angeles
	F	10 26 11						at 10:15 hrs.
22nd.	M	2 59 14			0.2			
	F	3 05 11						
30th.	M	4 37 57			0.1			
	F	4 50 44						
5th	P	4 33 18	2s				9360	
	S	4 43 46	4s					
	M	4 47 17	16s					

VERTICAL SEISMOGRAPH.

Victoria, B.C.

SEISMOLOGICAL BULLETIN

LATITUDE

48° 24' N.

LONGITUDE

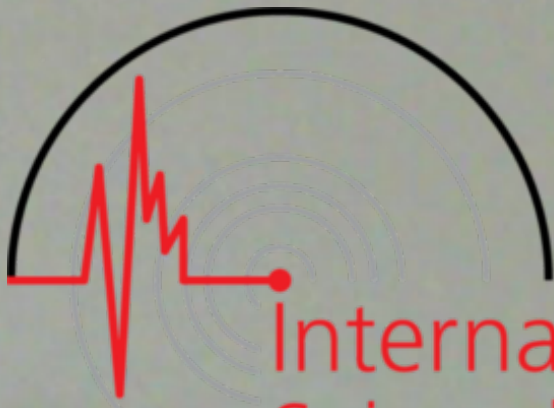
123° 19' W.

HEIGHT

222 feet above sea level

SUBSOIL

Rock.



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Apparatus: Milne horizontal pendulum, North.

A _E :	T ₀	$\frac{R}{T_0^2}$

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude				Remarks
				A _N	A _E	A _Z		
JULY (cont.)		H. M. S.			MM			
26th.	P?	5 36 04						
	L?	5 56 45						
	M	6 02 38			0.2			
	F	6 12 58						
VERTICAL SEISMOGRAPH.								
2nd.	M	19 27 00	25s.			^u 3		
7th.	P	18 46 30	3s					
	S	18 48 50	6s					
	L	18 52 00	8s			14	1320	Prob. off North Coast of California.
	M	18 55 15	8s.					

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	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		
JULY		H. M. S.						
2nd.	P	19 04 04						
	S	19 09 58						
	L	19 21 46						
	H	19 27 40			4.0		4120	
2nd.	P	21 58 37						
	H	22 35 03			0.4			
	F	22 51 46						
3rd.	P	16 51 47						
	L	16 55 43						
	H	16 58 40			0.2			
	F	17 10 29						
4th.	P	1 02 38						
	H	1 07 33			0.2			
	F	1 15 25						
6th	P	3 24 21						
	H	3 26 19			0.1			
6th.	H	3 44 00			0.1			
	F	3 57 30						
7th.	P	18 48 02						
	L	18 49 31						
	H	18 50 29			1.75		820	
	F	19 13 08						
7th.	H	20 46 34			0.1			
8th.	P	2 54 26						
	H	3 00 50			0.2			
	F	3 05 45						
16th.	P	17 37 33						
	H	17 50 01						
	F	18 06 05						
20th.	P	1 09 36						
	L	1 12 13						
	H	1 13 12			0.2			
	F	1 20 04						

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123° 19' W.

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SUBSIDIARY

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	T_0	$\frac{R}{T_0^2}$
A_E :		

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			$\triangle$	Remarks
				A_N	A_E	A_Z		
16th	(contin)	H.M.S.			7777			
	M	12 54 35?			35?			
	L	13 04 32						
	L	13 08 26						
	L	13 18 20						
	L	13 29 14						
		to						
		15 07 14						
	eLRep	15 23 20						
	eL	15 36 14						
	eL	16 09 56						
	F	16 19 12						
16th.	L	21 51 43						
	M	21 54 11			0.2			
	F	21 58 07						
17th.	Light off 19h 42m to 19h 49m. Small quake possibly missed.							
25th.	S	11 55 43?						
	L	12 02 39						
	i	12 21 22						
	M	12 28 26			0.8			
	i	12 30 46						
	F	13 24 28						

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LONGITUDE

HEIGHT

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123° 19' W.

22 feet above sea level

SUBSOIL

Rock.

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	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		
AUGUST		H.M.S.			MM.			
3rd.	P	73 18 42						
	S	73 26 34						
	L	73 41 19						
	M	3 53 05			0.1		76300	
	F	4 30 30						
3rd.	P?	20 20 42						Fine marks indistinct. Probably from Aleutian Is.
	S?	20 26 07						
	L	20 34 28						
	M	20 41 21			1.5		73620	
	F	22 44 18						
11th.	P	20 38 51						
	L	20 41 45						
	M	20 44 42			0.2			
	F	20 51 35						
12th.	P	76 51 35						
	M	6 58 28			0.2			
	F	7 09 48						
15th.	P	8 28 05						
	L	8 38 54						
	M	8 45 47			0.6			
	F	10 57 36						
17th.	M	3 17 14			0.05			
20th.	P	16 39 08						
	S	16 47 30						
	L	16 58 19						
	M	17 06 41			0.6		6860	
	F	18 58 48						

No.

19 20.

Victoria, B.C.

SEISMOLOGICAL BULLETIN

LATITUDE

LONGITUDE

HEIGHT

48° 24' N.

123° 19' W.

22 feet above sea level

SUBSOIL

Rock.

Apparatus: Milne horizontal pendulum, North.



International
Seismological
Centre

	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		
Sept.		H. M. S.			MM.			
20th(continued)								
	M2	15 31 07			5.5		2390	Alaska.
	eL	16 54 30						
	eL	17 06 24						
	M	17 13 12			2.0			
	F	18 44 33						
24th.	L	5 49 46						
	M	5 53 42			0.1			
24th	P	22 12 29						
	L	22 22 19						
	M	22 29 32			0.5			
	F	22 46 24						
27th.	P?	5 35 16						Real P
	L	5 37 43						may not
	M	5 41 10			0.5		1400	be recorded.
	F	5 50 30						Probably
								Alaska.
Vertical Seismograph.								
20th	P	14 51 30	2s.					
	S	14 55 45	7s.					
	L	15 02 30						
	M	15 19 51	30s.			10	2620	Alaska
	F	?						

Victoria, B. C.

SEISMOLOGICAL BULLETIN

LATITUDE 48° 24' N. LONGITUDE 123° 19' W. HEIGHT 222 feet above sea level SUBSOIL Rock



International
Seismological
Centre

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			Δ	Remarks
				A _N	A _E	A _Z		
		H.M.S.			MM			
October 1st.	P	19 10 10						
	M	19 12 37			1.0		1400	Probably Alaska.
	F	19 21 28						
5th.	L	19 10 51						
	M	19 12 49			0.4			Pender Island reported a quake at 12:35 p.m.Pac. Stan.Time.
	F	19 17 15						
7th.	P?	21 06 18						
	S	21 15 53						
	L	21 29 10						
	M	21 34 05			0.5		8300?	
	F	22 35 27						
8th.	S?	17 07 47						
	L?	17 12 17						
	L	17 14 29						
	M	17 17 05			0.3			
	F	17 37 23						
12th.	P	7 43 56						
	L	7 47 23						
	M	7 53 46			0.2			
	F	7 58 41						
15th.	L	14?56 12						
	M	14 58 40			0.5			
	F	15 07 02						
18th.	P	8 15 58						
	S	8 21 02						
	L	8 28 25						
	M	8 36 46			1.0		3170	
	F	10 03 20						

Victoria, B.C.

SEISMOLOGICAL BULLETIN

LATITUDE

LONGITUDE

HEIGHT

48° 24' N.

123° 19' W.

22 feet above sea level

SUBSON

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		
October (con) H.M.S.					MM.			
18th.	P	12 14 00						
	M	12 15 14			0.2			
	F	12 17 27						
18th.	P	12 52 20						
	M	12 53 19			0.5		450	Merged into next quake.
18th.	P	13 01 12						
	M	13 02 41			1.0		660	
	F	13 12 01						
20th.	P	10 43 12						
	M	11 00 25			0.2			
	F	11 33 22						
22nd.	S or							
	L	12 33 00						
	eL	12 48 10						
	M	12 57 35			0.5			
	F	13 43 20						
23rd.	Clock stopped, small quake on morning of 24th, possibly missed.							
26th.	P	19 30 29						
	L	19 31 58						
	M	19 33 26			0.2			
	F	19 34 25						
28th.	L	7 36 31						
	M	7 44 23			0.4			
	F	8 29 38						
28th.	P?	13 05 06?						
	or	13 08 03						
	S or L	13 12 58						Press despatches say 900 miles from La Plata.
	eL	13 13 08						
	M	13 13 57			0.5			
	eL	13 20 40						

Victoria, B. C.

SEISMOLOGICAL BULLETIN

LATITUDE

LONGITUDE

HEIGHT

SUBSOIL

48° 24' N.

123° 19' W.

22 feet above sea level

Rock



International
Seismological
Centre

Apparatus: Milne horizontal pendulum, North.

	T_o	$\frac{r}{T_o^2}$	
	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		
October (continued)								
		H.M. S.			MM.			
28th.	P	13 31 39						
	L	13 35 35						
	M	13 40 01			1.1			
	F	15 20 50						
<u>Vertical Seismograph</u>								
18th.	P	12 53 10	2s			u		
	L	12 54 25	7s.					
	M	12 54 25	10s.			3	520	
	F	13 02 00						
18th.	P	13 02 00	2.5s					
	L	13 04 00	5s					
	M	13 04 15	7s			7	840	
	F	13 14 00						

No.

1920.

Victoria, B.C.

SEISMOLOGICAL BULLETIN

LATITUDE

48° 24' N.

LONGITUDE

123° 19' W.

HEIGHT

22 feet above sea level



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			Δ	Remarks
				A_N	A_E	A_Z		
November		H. M. S.			MM.			
12th	P	6 06 10						
	S?	6 13 03						
	L	6 25 20						
	M	6 32 43			0.5		5190?	
	F	6 54 50						
16th	P	8 36 20						
	S	8 40 13						
	L	8 43 12						
	M	8 44 11			2.5		2380	
	eL	8 45 31						
	F	9 14 11						
26th	L	?9 39 51						
	M	9 41 50			0.3			
	F	?9 46 17						
28th	P	11 30 48						
	L	11 31 32						
	M	11 31 47			1.3		330	In Wash.state Felt in Seattle Spokane & Oregon.Prob.south of Victoria.
	F	11 43 05						
29th.	P	8 06 46						
	S	8 10 13						
	L	8 12 40						
	M	8 13 54			0.6		2030	Alaska,near Kadiak.
	F	8 29 39						
December								
5th	P	10 55 31						
	M	10 57 00			0.2			P may be L phase.
	F	11 41 45						
5th	P	22 26 21						
	L	22 40 30						
	M	22 45 00			0.2			
	F	22 51 00						

Victoria, B.C.

SEISMOLOGICAL BULLETIN

LATITUDE

48° 24' N.

LONGITUDE

123° 19' W.

HEIGHT

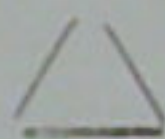
222 feet above sea level



Apparatus: Milne horizontal pendulum, North.

A _E :	T ₀	$\frac{R}{T_0^2}$

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude				Remarks
				A N	A E	A Z		
VERTICAL SEISMOGRAPH.								
November		H.M. S.						
16th	P	8 36 20	3s.					
	S	8 40 40	6s.					
	L	8 44 15	6s.					
	M	8 47 15	20s.			3	2690	
28th	P	11 30 53	2s.					
	L	11 31 28	3s.					
	M	11 31 41	5s.			36	260	
	F	11 40 00						
29th	P	8 07 30	3s.					
	S	8 11 20	5s.					
	M	8 11 40				3	2220	
December								
16th	P	12 16 30	2.5s.					
	S	12 23 30	6s.					
	L	12 33 00	30s.					
	M	12 53 00	30s.			50	5320	Times of S & L difficult to determine and minute contacts on smoked paper very weak.

Victoria, B.C.**SEISMOLOGICAL BULLETIN**

LATITUDE

LONGITUDE

HEIGHT

48° 24' N.

123° 19' W.

222 feet above sea level


 SUBST. International
Seismological
Centre

Apparatus: Milne horizontal pendulum, North.

	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		
December (continued)		H.M.S.			MM			
7th.	L	15 49 16						
	F	15 53 10			0.1			
7th.	L	15 59 04						
	F	16 03 40			0.2			Times doubtful No cut-off.
10th	iP	4 51 58						
	iS	4 57 23						
	L	5 14 36						
	M	5 18 32			1.0			Sharp easterly movement at 4h57m23s.
	eL	5 43 09						Line perfectly straight
	eL	5 47 03						previous to 4h51m58s.
	eL	5 54 57						May be a dual earthquake.
	LRep	6 27 39						
	LRep	6 38 33						
	LRep	6 51 15						
	F	7 01 49						
11th.	L	21 36 43						
	eL	21 47 18						L may be S phase
	M	21 51 35			0.6			
	F	22 03 57						
13th.	P	4 05 07						
	S	4 11 33						
	L	4 22 57						
	M	4 29 54			1.5		3630	
	F	4 39 20						
16th	P	12 19 06						
	S	12 25 06						
	SR?	12 26 44						
	SR ₂	12 28 22						
	SR ₃	12 29 10						
	SR ₄	12 30 22						
	i	12 34 04						
	iL	12 36 50						
	L	12 44 02						
	L	12 49 20						
	L	12 51 10					7000?	Group of L sets in.
		13 01 30						Principal portion begins

(continued)