

No.

19

18.

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

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			$\triangle$	Remarks
				A_N	A_E	A_Z		
1918 April		H. M. S.			MM.			
10th.	P?	2 21 24						
	M.	2 22 21			0.2			
	L?	2 57 46						
13th.	L.	2 10:36			0.05			
15th.	P.	8 31 51						
	L.	8 35 49						
	M.	8 37 48			0.5		2,410	Well defined disturbance.
	F.	8 46 44						
15th.	M.	19 34 57			0.05			Thickening.
17th.	P.	2 48 33						
	L.	?						
	M.	2 49 33			0.1		7550	
	F.	2 55 30						
17th.	P.	6 46:06						
	L.	6 48 05						
	M.	6 48 34			1.0		1110	
	F.	6 58 29						
20th.	L.	7 11 12			0.05			
	F.	7 15 30						
21st.	P.	22 35 57						
	S.	22 39 09						
	L.	22 40 37						
	M.	22 43 25			29.0		1770	San Jacinto, Cal
	F.	00 35 33						

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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.

[illegible]

Victoria, B.C.

SEISMOLOGICAL BULLETIN.

LATITUDE

LONGITUDE

HEIGHT

SUBSOIL

48° 24' N.

123° 19' W.

222 feet above sea level

Rock

Apparatus: Milne horizontal pendulum, in the meridian.

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

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour		Period	Amplitude		Δ	Remarks
		H.	M.		A	A _z		
Apr. 21	P	22	35:57					
	S	22	39:09					
	L	22	40:37					
	M.	22	43:25					
	7	10	35:33					
V.	P	22	36:16					
	S	22	39:13	10-12				
	L	22	41:17	12-14				
	M.	22	43:54	18				
	7	23	34:07					

E { *unc* 29 *km* 1779

V. { *km* 36 *km* 1719

Note V. Time is more accurate than E.

J. W. P. Dr.

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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 H. M. S.	Period	Amplitude			$\triangle$	Remarks
				A_N	A_E MM	A_Z		
May 1	P or L	4-40-41						
	M	4-44-37			0.3			
	F	4-48-33						
" 4	M	7-13-10			0.05			May not be a quake.
"								Sheet 4-11th reversed when putting on. Impossible to detect any small quake, owing to record being so faint.
" 16	P	21-41-49						
	L	21-43-47						
	M	21-45-16			0.5		1100?	
	F	21-53-42						
" 20	P	14-49-05						
	S	14-59-09						
	L	15-16-12						
	M	15-25-17			9.0		8870	Lazarina, Chili.
	F	17-27-46						
" 20	P	18-08-22						
	S	18-18-41						
	L	18-34-55						
	M-	18-47-22			1.0		9160	May also be from Chili.
	F	20-44-15						
" 22	L	6-52-44						
	M	6-55-41			0.3			
	F	6-59-39						

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A _E :	T _o		$\frac{R}{T_o^2}$

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			$\triangle$	Remarks
				A _N	A _E	A _Z		
		R.H.S.			M.L.			
May 23	P	12-02-31						
	S	12-07-09						
	L	12-10-08						
	M	12-13-36			18.5		2930	S waves fairly large amplitude Alaska.
	P	13-54-45						
" 25	PT	19-40-25						
	ST	19-51-25						
	L	20-04-55						
	M	20-16-25			0.5		10040	
	P	20-52-25						
			VERTICAL SEISMOGRAPH.					
" 20	P	14-48-54	2-3s.					
	S	15-00-00	9s.					
	L	15-16-30	30s.					
	M	15-22-30	24s.			7	10180	Lazarina, Chili.
" 20	P	18-07-30	2-3s.					
	S	18-20-12	6s.					
	L	?						
	M	18-41-30	30-36s			3		
	P	?						
" 23	P	12-02-50	3s.					
	S	12-07-17	9s.					
	L	12-10-59	14s.					
	M	12-12-30	15s.			29	2780	Alaska.
	P	?						

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Rock.

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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		
JUNE		H.M.S.			MM			
2nd.	P or	13 22 25			0.1			
	L	13 22 47						
	M	13 27 22						
	F							
3rd.	P.	0 31 34			0.5			
	L.	0 49 16						
	M	0 57 38						
	F	1 31 34						
4th.	P	4 29 24			0.4			
	L	4 46 15						
	or	4 51 52						
	M	4 59 08						
	F	5 15 01						
4th.	P	17 34 35			0.4			
	L	17 49 35						
	M	18 00 10						
	F	18 50 19						
5th.	M	23 18 33			0.1			
7th.	P.	21 33 58			2.0		4.170	
	S	21 39 55						
	L	21 45 23						
	M	21 47 51						
	F	22 44 23						
11th.	M.	13 13 57			0.4			
	F.	13 31 39						
12th.	L.	4 27 45			0.4			
	M.	4 28 44						
	F.	4 41 51						
13th.	M.	9 22 30			0.1			

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		18	
			1 MM=0.54

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			$\triangle$	Remarks
				A _N	A _E	A _Z		
JUNE.		H. M. S.			MM.			
16th.	P	5 46 33						
	S	5 52 27						
	L	6 00 20						
	M	6 05 45			0.2		4,120	
	F	6 14 06						
16th.	L	12 56 43						
	F	13 01 37			0.05			
21st.	P.	4 37 03						
	L.	4 39 32						
	M	4 42 00			0.2		1,440	
	F	4 49 27						
22nd.	L ?	22 31 53						
	L	22 36 48						
	M	22 44 10			0.1			
	F	22 54 57						
24th.	P	15 29 30						
	S	15 32 57						
	L	15 38 51						
	M	15 44 15			0.2		2,040	
	F	15 59 00						
26th.	L.	22 10 33						
	M	22 20 57			0.4			
	F.	22 30 57						
27th.	P.	21 40 28						
	M	21 52 22			0.2			
	F	22 13 11						
VERTICAL SEISMOGRAPH.								
7th.	P.	21 33 48	5s					
	S	?						
	L	21 47 48	9s			u		
	M	21 49 20	12s			4		
	F	?						

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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		
July		H. M.S.			MM.			
1st.	P	6 32 00						
	S	6 39 52						
	L	6 53 38						
	M	7 23 39			0.5		6290	
	F	8 06 26						
3rd.	P	7 05 38						
	e	7 08 54						
	S	7 15 48						
	iS	7 17 28						P time deter-
	L	7 36 22						mined from V.
	M	7 47 47			4.0		9000	
	Lrep	8 56 41						Prob. South
	iL	9 05 34						America.
	eL	9 10 04						
	eL	9 20 22						
	M	9 24 16			1.4			
	F	9 57 42						
8th.	P	10 46 14						
	S	10 54 36						
	L	11 08 12						
	M	11 26 05			1.7		6870	North Peru.
	F	12 58 02						
15th.	P	0 25 25						
	S or							
	L	0 26 53						Marked record.
	M	0 28 51			11.5		651	N. California
	F	1 19 50						felt at Eureka.
								Boom suddenly
								deflected, decrea-
								ing vibs.
16th.	M	20 50 32			0.1			
16th.	L	?23 58 24						
	M	00 02 51			0.2			
	F	00 06 47						

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HEIGHT

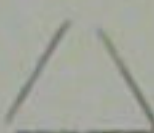
22 feet above sea level



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		
July		H. M. S.	VERTICAL SEISMOGRAPH.					
3rd.	P	7 05 30	3s.			u		
	L	7 36 00	18-24s.					
	M	7 44 36	18s.			7	?	
	F	?						
8th.	P	10 45 07	3s.					
	S	10 54 13	6s.					
	M	11 28 43	30s.			3	7740	North Peru.

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22 feet above sea level

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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			$\triangle$	Remarks
				A _N	A _E	A _Z		
(July cont) H.M.S.					MM.			
21st	P	6 33 26						
	S	6 40 39						
	L	6 51 34						
	M	7 09 20						
	F	9 07 52			2.0		5560	
21st.	M	10 40 48			0.3			
23rd	L	14 07 26						
	M	14 18 15			0.3			
	F	14 36 27						
24th	L	11 37 34						
	M	11 51 20			0.2			
	F	12 15 56						
29th	L	12 01 06						
	M	12 08 36			0.2			
	F	12 23 06						
29th.	P	17 12 36						
	S	17 24 13						
	L	17 44 53						
	M	17 59 08			0.5		10,900	
	F	18 04 34						
31st.	S?	15 01 49						
	L	15 06 14						
	M	15 16 04			0.7			
	F	15 58 51						
31st.	L	22 45 04						
	M	22 55 23			0.25			
	F	23 10 09						
Revelstoke reports a slight quake on night of 27th of July 1918.								

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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 5th.	P	H. M. S.			MM.			
	S	2 12 58						
	L	2 19 51						
	M	2 29 01						
	F	2 35 35			0.3		5200	
	F	3 01 39						
8th.	P	10 11 45						
	S	10 17 39						
	L	10 19 57						
	M	10 41 45			1.5		4120	
	F	12 27 29						
15th.	P	12 32 18						
	S	12 43 36						
	L	12 55 24						
	L	12 58 21						
	M	13 23 27			9.0		10,440	Probably in vicinity of Malay archipelago.
	F	17 10 10						
15th.	P	17 55.54						
	S	18 06 47						
	L	18 17 03						
	M	18 42 37			0.4		9,890	May be from above area.
	F	19 11 09						
16th.	L or							
	S	9 22 34			0.1			
	M	9 38 47						
17th	L	7 43 40						
	M	7 45 28			0.1			
	F	7 47 20						
23rd.	P	6 59 31						
	S	7 05 26						
	L	7 15 45						
	M	7 27 06			4.0		4,140	Extreme western part of Aleutian Islands.
	F	9 36 24						V. instrument out of action,

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Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour			Period	Amplitude				Remarks
		H.	M.	S.		A _N	A _E	A _Z		
August.					VERTICAL SEISMOGRAPH.					
8th	P	10	11	54	6s.			4		
	S	10	17	39						
	L	10	29	30	30s.					
	M	10	34	30	24s.			4	4330	
15th.	P	12	32	18	3s					
	S	12	44	30	8-10s.					
	L	13	04	30	24s					
	M	13	06	18	30s			18	11,770	
	F		?							
22nd.	Local	15	21	35				1		Lasted 1 sec.preceded by a rumbling noise. Felt at Victoria Observatory and in rocky parts of city, causing articles to rattle.Prob.under Strait of Fuca.

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SUBSOIL

43° 40' 0.8"

5 h 17 m 35.6s W.

373 feet above sea level.

Sand and clay.



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		
SEPTEMBER		H.M.S.			mm.			
2nd.	P?	14 57 22						
	M	15 07 42			0.2			
	F?	15 21 28						
5th.	M	12 30 56			0.1			
7th.	P	17 23 38						XXXXXXXXXXXXXX
	S	17 26 02						
	i	17 27 44						
	L	17 33 28						
	M	17 53 08			30.0		1,360	
	M2	17 57 02						
	F	22 29 32						
8th.	p or							
	L	0?11 56						
	M	0 50 07			0.2			Prob. after shock
	F	1 20 50						from above.
8th.	P	6 03 00						
	L	6 14 30						
	M	6 21 30			0.2			" "
	F	7 01 00						
8th.	L	22?27 37						
	eL	22 42 30						
	M	22 56 08			0.2			
	F	24 33 31						" "
9th.	L	0?01 05						Micros from
	F	0 04 05			0.2			21h20 of 8th to
								0h40m of 9th.
12th	M	13 51 31			0.1			
12th.	P	18 08 15						
	L	18 10 43						
	M	18 12 11			0.2		1410	Alaska?
	F	18 22 01						

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LATITUDE

LONGITUDE

HEIGHT

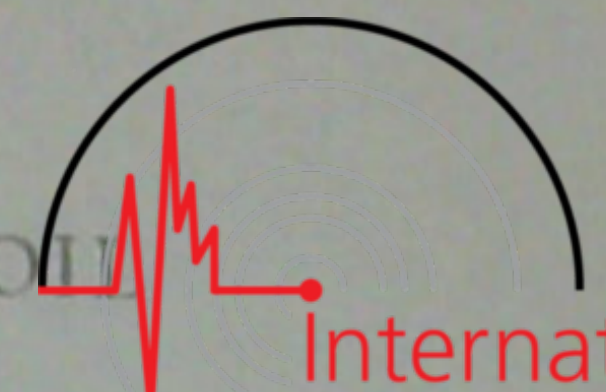
SUBSOIL

43° 40' 0.8"

5h 17m 35.6s W.

373 feet above sea level.

Sand and clay.



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Apparatus: Milne horizontal pendulum, North.

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			
14th	P	17 21 17						
	S	17 25 43						
	L	17 37 01						
	M	17 44 53			0.5		2770	
	F	18 38 00						
9th.	Local tremor felt in parts of city at 12h30 duration 1 sec. accompanied by rumbling noise. Not recorded.							
15th.	M	6?13 29			0.05			
16th.	P	14?01 49						
	M	14 12 38			0.2			
	F	14 23 57						
22nd.	P	10 58 51						
	S	11 01 49						
	L	11 07 43						
	M	11 12 08			0.2		1720	
	F	11 29 50						
28th.	P	10 56 30						
	M	10 59 27			0.1			
	F	11 03 24						
29th.	L	12 50 21						
	eL	12 52 08						
	L	12 57 03						
	M	13 06 54			0.5			
	F	13 30 30						
30th.	P	13 31 33						
	S	13 34 30						
	L	13 39 25						
	M	13 55 39			0.6		1710	
	F	14 54 10						
30th	P	18 04 32						
	S	18 08 57						
	L	18 15 31						
	M	18 47 18			1.0		2760	

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				A_N	A_E	A_Z		
		H M S			mm			
30th	L	19 15 50						
	M	19 40 55			1.5			
	F	20?42 23						P & S probably masked by end of previous quake.
1st.	L	1 19 47						
	M	1 26 11			0.2			
	F	1 37 59						
2nd.	L or P.	0?45 24						
	M	1 21 48			0.1			
9th.	M	9 46 34			0.1			
	F	9 56 53						
11th.	P	14 23 38						
	S	14 31 01						
	L	14 42 49						
	M	14 51 10			9.0		5750	Porto Rico destructive quake.
	R	17 30 31						
	F	18 14 47						
13th.	P	2 57 49						
	L	3 01 16						
	M	3 02 15			0.2			
	F	3 08 39						
13th.	M	13 25 57			0.1			
	F	13 39 43						
14th.	M	1 02 24			0.1			
	F	1 20 06						
14th.	P	12 33 53						
	L	12 38 58						
	M	12 44 13			0.5			
	F	13 40 07						

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

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5h 17m 35.6s W.

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Sand and clay.



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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			
15th.	P	23 31 19						
	L	23 32 49						
	M	23 33 48						
	F	23 42 14			0.2			
18th.	L	22 01 49						
	L	22 06 46						
	M	22 10 15						
	F	22 15 02			0.2			
19th.	P	3 30 21						
	S	3 37 44						
	L	3 46 35						
	M	3 54 27						
	F	4 49 02			2.0		5750	May be West Indies or Central America.
25th.	P	3 52 18						
	S	4 00 01						
	L	4 11 30						
	M	4 19 32						
	F	5 11 30			9.0		6130	
27th.	P	15 51 05						
	S	15 57 02						
	L	16 07 24						
	M	16 20 41			2.0		4180	F merged into next quake.
27th.	P	17 30 01						
	L	17 45 16						
	M	17 58 32						
	L	18 33 11			1.3			F merged into next quake.
27th.	L	19 31 00						
	M	19 43 18						
	F	20 05 26			0.25			
29th.	L	12 50 47						
	M	12 59 09			0.1			

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A_E :	

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			A	Remarks
				A _N	A _E	A _Z		
VERTICAL SEISMOGRAPH.								
Sept. 7th.	P	H.M. S. 17 23 30	3s.			μ		Lines crossed at time of quake.
	S	17 26 00	8s					
	M	17 42 00	24s.			34	1430	
Oct. 11th	P	14 24 00	6s.					Porto Rico destructive quake.
	S	14 31 42	8-10s					
	L	14 44 42	24s					
	M	14 50 24	12s.			31	6110	

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	$\frac{r}{T_o^2}$	
	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		
November		H. M. S.			MM			
3rd.	P	11 43 34						
	S	11 54 00						
	L	12 06 31						
	eL	12 19 02						
	M	12 24 03			0.5		9310	
	F	12 32 04						
8th.	P	4 47 25						
	S	4 53 22						
	L	5 03 47						
	M	5 20 29			6.0		4180	Kamchatka.
	F	8 48 01						
12th.	P	21?54 14						
	S	22 02 08						
	L	22 12 52						
	M	22 20 28			1.0		6330	May be West Indies?
	eL	22 27 20						
	F	23 05 06						
16th.	P	6?14 04						
	L	6 18 59						
	M	6 20 27			0.2			
	F	6 27 50						
18th.	P	18 55 14						
	S	18 59 40						
	L	19 08 02						
	M	19 44 25			9.0		2770	S waves well defined.
	eL	20 57 33						
	eL	21 01 09						
	MR	21 05 09			1.0			
	eL	21 13 45						
	F	22 01 09						
20th.	M	6 57 19			0.1			

Victoria, B. C.

SEISMOLOGICAL BULLETIN

LATITUDE

LONGITUDE

HEIGHT

SUBSOIL

48° 24' N.

123° 19' W.

222 feet above sea level

Rock



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		
Nov. (con)		H. M. S.			MI.			
22nd.	P	16 05 00			0.2			
	M	16 29 30						
	F	17 01 30						
23rd.	P	23 21 36						
	E	23 28 14						
	S	23 30 27						
	L	23 41 45						
	L	23 46 11						
	M	0 06 51			0.5		7400?	
	F	1 33 24						
30th.	S	7 09 03						
	L	7 16 44						
	M	7 22 07			0.4			
	F	7 41 02						Disturbance abruptly became less at 7h. 24m 04s.
VERTICAL SEISMOGRAPH.								
8th.	P	4 47 00	2-3s.					
	S	4 53 45	8s.			4		
	L	5 04 40	24s.					
	M	5 22 08	24s.			14	5050	Kamchatka.
18th.	S	19 00 18	3-4s.					
	L	19 07 38	14s.					
	M	19 44 34	36s.			4		
	F	?						

No.

1918

VICTORIA, B.C.

SEISMOLOGICAL BULLETIN

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LONGITUDE

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HEIGHT

222 feet above sea level

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SUBSOIL

Rock

International
Seismological
Centre

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		
December 1st.		H M. S.			MM.			
	P	3 13 09						
	S	3 17 34						
	L	3 24 27			0.3		2760	Alaska?
	M	3 30 31						
2nd.	P	10 07 30						
	S	10 12 30						
	L	10 22 00						
	M	10 38 00			1.2		3240	Aleutian Islands?
	F	12 55 00						
4th.	M	0 00 19			0.05			
	F	0 07 12						
4th.	P	12 00 56						
	S	12 11 14						
	S	12 11 32						
	L	12 28 51						
	M	12 42 59			2.6		9520	Northern Chili (Copiapo)
	F	15 37 42						
4th	P	18 24 08						
	S	18 26 07						
	L	18 29 46						
	M	18 32 04			0.3		890	
	F	18 52 54						
6th	P	8 04 18						
	M	8 12 20			0.2			
6th.	P	8 41 39						
	S&L	8 42 27						
	M	8 43 15			17.0		336	Off coast of Vancouver Is. and NW of Estevan.
	eL	9 24 34						
	F	10 34 25						
6th.	P	12 02 51						
	S&L	12 03 21						
	M	12 04 20			1.5		220	Off coast of Van- couver Is. and to S. of Estevan.
	F	12 24 10						

VICTORIA, B.C.

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SUBSOIL

Rock

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Centre

T₀

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

A_E:

Time: Mean Greenwich, midnight to midnight.

Date	Phase	Hour	Period	Amplitude			Δ	Remarks
				A _N	A _E	A _Z		
ember (cont.)		H.M.S.			MM.			
9th.	P	4 51 47						
	S	4 56 42						
	L	5 04 08						
	M	5 05 37			0.2		4140?	
	F	5 11 34						
10th								
9th	P	?18 10 04						
	S	18 12 31						
	L	18 15 58						
	M	18 25 18			0.4		1400?	
	F	18 49 53						
9th.	L	19 04 41						
	M	19 16 35			0.5			
	F	20 02 42						
11th	Estevan reports 2 local tremors at 9 Hrs.G.M.T. not recorded, here							
14th	L	?18 59 31						
	M	19 03 29			0.2			
14th	M	19 30 16						
	F	19 39 11			0.4			May be one distant quake.
19th.	L	20 11 00						P & S at cut-off
	M	20 20 21			0.2			
	F	20 28 13						
21st.	P	?9 38 33						
	S	9 42 59						
	L	9 52 19						
	M	10 03 09			0.2		2770?	
	F	10 28 14						
23rd.	M?	20 12 12			1.0			P, S & L lost at cut-off
	F	20 24 30						
25th.	L	10 50 04						
	M	11 16 13			0.4			
	F	11?31 57						