

VICTORIA, B.C.

(1976)

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, one Weichert, Vertical.

Period 12 seconds
Damping 20-1
Magnification 250

DAY AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
		h. m. s.	s.	μ	μ	μ		
1929 JANUARY:								
6th	LE	0-29-49	18					
	ME	0-33-53	15		2			
	FE	0-42-00						
8th.	LE	9-00-30	20					
	ME	9-01-52	18		5			
	FE	9-16-00						
11th.	Small quake with I at 14h 22m ending 14h 39m							
13th.	O	0-03-00						
	PEN	0-11-59	8					
	SE	0-19-08	12					
	SN	0-19-06	12					
	LEN	0-22-42	18					
	MN	0-23-00	18	276			O from NS at 0h03m03s	
	ME	0-24-30	18		352		5450	
	FE	4-17-00					5490	
17th	PE	11-56-13	8					
	SN	?12-04-30	10					
	LE	12-15-08	30					
	LN	12-13-43	40					
	MN	12-15-08	30	62				
	ME	12-27-23	22		28			
	FE	13-47-53						
19th	LE	3-52-45	20					
	ME	3-56-17	18		4			
	FE	4-23-57						
21st.	LEN	5-56-04	30					
	ME	5-57-06	30		7			
	FE	6-21-56						
21st.	PN	10-35-40	8					
	PE	10-35-41	8					
	LEN	10-39-39	12-10					
	MEN	10-42-10	12-10	67	109			
	FE	12-12-55						
24th	O	20-32-54						
	PEN	20-44-55	10-8					
	SE	20-54-55	15					
	LN	20-57-45	45					
	LE	20-59-28	45					
	MN	21-08-55	20	222				
	ME	21-13-15	20		372		8790	
	FE	0-06-55						
26th	LE	2-56-51	18					
	ME	3-00-21	18		6			
	FE	3-06-51						

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, one Weichert, Vertical.

AND DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD <small>s.</small>	AMPLITUDE			Δ	REMARKS
				A N <small>μ</small>	A E <small>μ</small>	A Z <small>μ</small>		
January 1929 (continued)								
26th	LEN	21-13-50	20-15					
	ME	21-16-45	18		5			
	FE	21-22-50						
27th	LE	16-50-16	18					
	ME	16-51-23	18		8			
	FE	16-56-48						
28th	LE	22-23-58	12					
	ME	22-27-38	14		7			
	FE	22-32-58						
31st.	PE	18-13-47	5					
	LE	18-28-55	20					
	ME	18-32-54	20		17			
	FE	19-16-55						

F. Napier Denison,
Seismologist.

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

Period 12 seconds

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

Magnification 250

Damping 20-1.

No. AND DATE	PULSE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
1929 FEBRUARY		h. m. s.	s.					
1st.	PEN	17-27-37	5					
	LE	17-52-19	25					
	ME	18-08-37	30		25			NS clock stopped.
	FE	19-09-57						
1st.	LE	22-13-28	20					
	ME	22-15-38	15		4			
	FE	22-19-58						NS clock stopped.
2nd.	O	0-01-06						
	PE	0-14-48	6					
	SE	0-26-23	10					
	LE	0-46-48	35					
	ME	0-51-50	25		100		10,850	NS clock stopped.
	FE	3-27-58						
4th	LE	10-44-23	20					
	LN	10-46-03	20					
	ME	10-50-12	20		8			
	FE	11-01-15						
5th.	LE	4-07-16	20					
	ME	4-12-36	18		5			
	FE	4-22-56						NS clock stopped.
6th.	PEN	6-58-47	4-5					
	LEN	7-05-36	10					
	MN	7-07-55	10	2				
	FN	7-19-57						
8th.	LEN	2-29-39	20					
	ME	2-35-19	20		8			
	FE	2-46-59						
10th	LE	4-02-11	18					
	LN	4-04-31	18					
	ME	4-07-49	18		5			
	FE	4-23-01						
10th	O	15-39-03						
	PEN	15-47-22	10-8					O from NS 15h40m07s
	SN	15-53-07	12					
	SE	15-53-57	12					
	LEN	16-00-37	40					
	ME	16-06-40	20		64		4860	
	MN	16-09-37	18	60			3960	
	FE	17-46-02						
13th	PE	22-25-16	8					
	LE	22-36-48	20					
	LN	22-38-16	18					
	ME	22-40-06	20		9			
	FE	23-12-56						
15th	SEN	8-23-04	10					
	LE	8-29-16	30					
	LN	8-31-44	22					
	ME	8-37-15	18		24			
	MN	8-37-34	14	23				
	FE	9-41-44						

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
1929 (February)		continued ^{h. m. s.}	s.	μ	μ	μ		
16th	LE	20-13-09	30					
	ME	20-13-38	25		7			
	FE	21-12-49						
20th	LE	21-19-41	12					
	ME	21-19-51	12		6			
	FE	21-28-01						
22nd	O	20-41-55						
	PE	20-53-40	5					
	PN	20-53-47	5					
	SE	21-03-24	12					
	SN	21-03-29	10					
	LN	21-17-47	30					
	LE	21-17-59	45					
	MN	21-20-09	14	39			8440	
	ME	21-24-12	20		105		8470	
	FE	23-36-59						
26th	O	9-01-12						
	PEN	9-06-25	5					
	LEN	9-10-35	10					
	MEN	9-13-10	20	46	55		2560	
	FE	10-47-00						
MARCH								
1st.	PEN	7-32-23	8					
	LEN	7-33-58	10					
	MEN	7-36-08	10	76	62		870	
	FE	8-51-58						
1st.	PN	8-54-10	8					
	PE	8-54-18	8					
	LEN	8-55-28	10					
	ME	8-56-16	10	19	19		640	
	FN	9-50-58					710	
1st.	LEN	16-03-28	20					
	ME	16-06-23	15		6			
	FE	16-22-58						
1st.	LE	21-21-10	20					
	ME	21-23-48	18		4			
	FE	21-35-58						
3rd.	LEN	9-09-07	20					
	ME	9-11-07	18		19			
	MN	9-11-19	12	16				
	FN	9-28-57						
3rd.	LE	17-19-26	18					
	ME	17-21-27	14		2			
	FE	17-28-57						
5th	LEN	3-15-59	20					
	ME	3-19-19	15		4			
	FE	3-23-59						

O from NS component at 20h 42m 03s

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Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

No. AND DATE	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
1929								
March (continued)								
7th	PEN	1-40-50	10					
	LN	1-45-50	20					
	LE	1-46-10	18					
	ME	1-49-00	20		407		3390	
	MN	1-50-40	20	372			3240	
	FN	5-18-00						
9th	?SE	2-33-41	10					
	LE	2-45-45	20					
	ME	2-47-00	30		15			
	FE	3-30-00						
9th	O	11-06-42						
	PEN	11-17-00	10					
	SN	11-24-40	12					
	SE	11-25-20	12					O from NS -
	LE	11-34-49	40					11h 07m 25s
	LN	11-35-00	40					
	ME	11-46-42	20		93		6820	
	MN	11-49-26	20	75			6080	
	FE	11 -21-00						
10th	PN	14-56-19	5					
	LN	15-06-59	20					
	MN	15-07-49	20	5				
	FN	15-17-59						
10th	PE	22-58-12	5					
	LE	23-00-50	20					
	ME	23-01-19	20		3			NS too small to
	FE	23-05-30						measure.
11th	PE	13-43-45	5					
	LE	13-55-50	20					
	ME	13-59-40	10		1			FE 14-07-00
12th	PEN	2-39-33	5					
	LE	2-40-50	10					
	ME	2-41-18	10		14			
	FE	3-04-00						
18th	LE	2-33-39	20					
	ME	2-35-54	19		3			
	FE	2-39-59						
19th	O	20-52-30						
	PEN	21-01-59	10					
	SE	21-08-29	20					
	SN	21-09-04	20					O from NS-
	LN	21-15-18	30					20h 53m 04s
	LE	21-16-34	40					
	ME	21-25-08	14		26		5880	
	FE	22-24-59						
	O	2-35-30						
21st.	PEN	2-45-12	10-8					
	SN	2-51-52	12					
	SE	2-52-59	20					
	LE	3-00-32	30					
	MN	3-07-31	20	58			4960	
	ME	3-08-17	15		46		6200	
	FE	4-28-57						

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No. AND DATE	PERIOD	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		h. m. s.	s.	μ	μ	μ		
1929 MARCH (Continued)								
23rd	LE	11-43-19	15					
	ME	11-44-14	10		3			
	FE	11-52-54						
23rd	LE	20-48-54	22					
	ME	20-52-12	20		3			NS too small to measure.
	FE	21-26-54						
28th	LEN	3-30-05	30-20					
	ME	3-34-57	12		15			
	MN	3-35-05	14	18				
	FE	3-48-05						
28th	LE	21-29-08	20					
	ME	21-36-03	20		3			
	FE	22-02-08						
31st.	LE	4-03-18	20					
	ME	4-11-08	20		3			
	FE	4-18-08						
31st.	LE	6-07-28	30					
	ME	6-17-18	20		5			
	FE	6-40-08						

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

PERIOD 12 seconds
MAGNIFICATION 250
DAMPING 20-1

No. AND DATE	Phase	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
1929								
April 6th	PN	3-58-40	5	μ	μ	μ		
	PE	3-58-51	6					
	LN	3-58-52	10					
	LE	3-59-10	12					
	ME	3-59-29	12		11			
	FE	4-09-00						
7th	O	19-31-51						
	PEN	19-40-02	5					
	SN	19-46-22	10					
	SE	19-46-31	10					
	LE	19-54-20	22					0 from NS 19h32m02
	LN	19-54-30	22					
	ME	19-58-18	20		29		4750	
	FE	20-51-00						
8th	LE	10-39-20	8					
	ME	10-39-30	10		2			NS record too small to measure.
	FE	11-17-00						
9th	LE	3-02-06	20					
	ME	3-04-43	18		4			
	FE	3-20-08						" " "
9th	LE	5-26-53	20					
	ME	5-31-30	20		3			
	FE	6-02-08						" " "
10th	LE	9-45-01	12					
	ME	9-48-13	12		2			" " "
	FE	9-53-01						
21st	PE	12-52-05	8					
	LE	13-09-08	20					
	ME	13-15-05	18		4			
	FE	13-32-05						
23rd.	PEN	2-15-50	2					
	MEN	2-16-02	2	2	3			Local, felt in some parts of city.
	FE	2-17-30						
23rd.	PE	17-59-30	5					
	LE	18-01-00	12					
	ME	18-02-10	10		2			
	FE	18-13-00						
26th.	Small quake with L at 2h 24m 58s ending 2h29m.							
26th	PE	11-49-40	5					
	SE	?11-56-30	8					
	LE	12-06-15	20					
	ME	12-16-25	15		7			
	FE	12-45						
27th	LE	21-46-30	30					
	ME	21-50-40	20		3			NS too small to measure
	FE	22-08-00						

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PERIOD 12 second
MAGNIFICATION 250
DAMPING 20-1

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
		h. m. s.	s.	μ	μ	μ		
MAY. 1929								
1st.	PEN	8-00-54	5					
	LE	8-19-07	20					
	ME	8-28-29	18		3			
	FE	8-54-59						
1st.	O	15-38-44						
	PE	15-51-19	5					
	PN	15-51-09	5					
	SE	16-01-52	10					
	SN	16-01-29	10					
	LE	16-17-39	50					
	LN	16-21-04	50					
	ME	16-31-39	20		192			
	MN	16-35-19	25	108		9450		
	FE	19-22-59				9200		
6th	PE	5-33-33	10					
	PN	5-34-55	10					
	LN	5-51-33	30	6				
	LE	5-56-55	30					
	ME	5-59-40	20		3			
	FE	6-31-55						
7th	O	16-49-41						
	PE	16-59-38	8					
	PN	17-00-26	5					
	SE	17-07-39	20					
	LE	17-21-01	30					
	LN	17-16-05	40					
	MN	17-23-25	20	6				
	ME	17-24-03	24		48			
	FE	17-58-05				6460		
12th	LE	9-57-25	30					
	ME	10-01-23	20		7			
	FE	10-24-03						
13th	LE	9-45-51	20					
	ME	9-49-26	10		2			
	FE	9-55-06						
13th	LE	14-18-41	20					
	ME	14-25-11	20		6			
	FE	14-44-06						
18th.	PE	7-01-53	10					
	PN	7-01-24	6					
	LE	7-18-13	34					
	LN	7-24-11	34					
	ME	7-23-03	30		15			
	MN	7-26-23	30	15				
	FE	8-18-01						
20th	O	4-52-59						
	PEN	4-59-39	5-6					
	SE	5-04-56	10					
	SN	5-05-01	10					
	LN	5-07-49	20					
	LE	5-08-41	20					
	MN	5-07-29	20	26		3580		
	ME	5-11-31	20		32	3500		
	FE	8-06-01						

O from NS at
15h 38m 46s.

P may be S phase

O from NS at
4h 52m 52s

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
				μ	μ	μ		
May 1929 (continued)								
21st.	PEN	16-56-58	8					
	LN	17-07-58	30					
	LE	17-11-58	22					
	MN	17-10-28	20	10				
	ME	17-15-18	30		19			
22nd	FE	18-47-58						
	LEN	21-06-57	20					
	ME	21-11-25	20		6			
25th	FE	21-38-57						
	LEN	12-19-54	8					
	ME	12-20-37	10		3			
26th	FE	12-44-54						
	LE	9-36-18	20					
	ME	9-37-43	20		5			
26th	FE	9-47-53						
	O	22-39-37						
	PN	22-41-24	8					
	PE	22-41-25	8					
	LE	22-42-53	10					
	ME	22-48-27	10		214?			
	FE	2-56-53						
27th.	LE	6-00-53	20					
	ME	6-05-28	20		6			
	FE	6-10-53						
27th	PE	6-11-23	6					
	LE	6-12-05	10					
	ME	6-12-25	10		2			
28th	PEN	0-03-59	5-6					
	LE	0-19-51	20					
	ME	0-27-18	12		7			
	FE	0-56-53						
29th.	Small quake with L at 12h 35m 12s, ending 12h 37m 57s.							
29th.	PE	14-16-17	5					
	LEN	14-17-47	10-8					
	ME	14-18-47	10		5		830	
	FE	14-26-27						
30th	O	9-44-34						
	PEN	9-57-06	8					
	SN	10-07-36	10					
	LN	10-26-16	40					
	LE	10-27-56	30					
	MN	10-34-36	20	12			9390	
	ME	10-35-06	20		15			
FE	12-37-56							

F. Napier Denison,
Seismologist.

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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

PERIOD 12 Seconds

INSTRUMENTS—Two Milne-Shaw, One Weichert, Vert MAGNIFICATION, 250

DAMPING 20-1

No. AND DATE	Phase	TIME h. m. s.	PERIOD s.	AMPLITUDE			Δ	REMARKS
				A _N μ	A _E μ	A _Z μ		
JUNE 1929.								
1st.	PE	0-38-56	8					
	LE	0-40-26	30					
	ME	0-40-26	30	5	5			NS record too small to measure.
	FE	0-56-46						
1st.	LN	14-34-44	12					
	MN	14-36-36	18	2				EW record too small to measure.
	FN	14-46-56						
2nd.	PEN	21-49-28	5					
	LN	21-57-13	10					
	LE	21-58-16	10					
	ME	22-01-25	12		4			
	FE	23-16-13						
3rd.	SN?	20-53-27	8					
	LN	21-18-00	20					
	LE	21-18-02	20					
	ME	21-25-48	20		6			
	FE	21-47-02						
4th	LE	15-39-02	12					
	ME	15-44-02	12		3			
	FE	16-44-04						
6th	PN	11-16-01	6					
	PE	11-17-36	10					
	LN	11-32-36	30					
	LN	11-38-56	20					
	MN	11-46-51	20	4				
	ME	11-47-26	20		7			
	FE	12-19-01						
6th	LE	16-29-51	20					NS too small to measure. F, lost.
	ME	16-33-23	20		5			
9th	LE	1-29-53	20					
	ME	1-30-18	14		2			
	FE	1-36-58						
9th	PE?	6-51-40	5					
	PN	6-51-58	6					
	LEN	6-52-28	10					
	MEN	6-52-56	10	5	4			
	FE	6-59-28						
9th	O	8-09-15						
	PEN	8-14-12	6					
	SEN	8-18-09	8					
	LE	8-19-27	20					
	LN	8-19-52	20					
	MEN	8-20-37	10	11	19		2400	
	FE	8-51-57						
9th	O	9-08-13						
	PEN	9-17-37	5					
	SEN	9-25-07	8					
	LE	9-34-37	30		50		5890	
	LN	9-36-09	20					
	MN	9-37-09	22	21				
	F	11-21-57						
10th	O	23-02-05						
	PN	23-13-00	5					
	SN	23-21-55	8					
	LN	23-33-50	20					
	MN	23-42-38	10	5			7500	
	SE	23-20-50	8					
	LE	23-33-10	10					
	ME	23-41-41	10					
	FE	0-21-00			7			

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

NO. AND DATE	PHASE (Continued)	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
12th	O	11-43-56						
	PE	11-56-18	5 s	μ	μ	μ		
	SE	12-06-38	8					
	LE	12-25-20	25					
	ME	12-33-18	20		9		9180	
	FE	13-26-58						
13th	O	0-12-34						
	PEN	0-21-58	8&6					
	SEN	0-29-28	10					
	LE	0-38-56	20					
	LN	0-40-38	20					
	ME	0-53-53	22		48		5890	
	MN	0-53-58	20	32				
	FE	3-58-58						
13th	O	9-23-43						
	PEN	9-38-17	5&8					O derived from NS 9h 23m 18s
	SE	9-50-37	10					
	SN	9-50-59	10					
	LN	10-04-35	30					
	LE	10-09-13	40					
	MN	10-05-09	28	35				
	ME	10-10-19	30		219		11,980	
	FE	12-48-57						
13th	PE	20-11-22	5					
	LE	20-32-37	30					
	ME	20-33-57	20					
	FE	21-11-57						
13th	PEN	23-24-47	8					P phase may be S
	LN	23-40-57	30					
	LE	23-45-17	30					
	ME	23-58-27	20		5			
	FE	0-58-57						
15th	LEN	0-55-56	20					
	ME	0-56-38	15		4			
	FE	1-02-56						
16th	PE	22-10-50	3					PN 22h 10m 45s
	LE	22-11-07	10					LN 22h 11m 10s
	ME	22-11-30	10		5			
	FE	22-19-10						
16th	PE	22-27-25	3					
	PN	22-27-47	3					
	LN	22-28-07	10					
	LE	22-28-25	8					
	ME	22-28-30	12	6	10			
	FE	22-34-55						
16th	O	22-54-35						O from NS at 22h 53m 33s
	PEN	23-06-05	10					
	SE	23-15-33	12					
	SN	23-16-35	12					
	LN	23-36-45	40					
	LE	23-36-47	30					
	MEN	23-41-55	20	140	198		8170	
	FE	3-13-55						
17th	Small quake at 10h 40m 42s							
19th	Small quake with P at 7h 55m 01s ending at 9h 14m 01, 12h							
20th	PE	12-14-30	4					
	LE	12-16-00	18					
	ME	12-16-00	18		4			
	FE	12-29-00						
22nd	PE	15-56-38	5					
	LE	16-20-18	20					
	ME	16-25-30	20		6			

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

NO. AND DATE	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
(Continued)								
JUNE 1929 23rd	LE	3-43-58	18					
	ME	3-44-58	12		2			
24th	FE	3-54-58						
	LE	18-51-55	10					
	ME	18-53-42	12		3			
25th	FE	19-07-00						
	LE	6-51-45	10					
	ME	6-53-00	15		2			
25th	FE	7-01-00						
	LN	9-52-48	15					
	MN	9-54-00	18	2				
26th	FN	10-01-00						
	PE	?6-42-12	8					P phase may be S
	LEN	6-47-00	12&15					
27th	ME	6-57-35	12		3			
	FE	7-28-00						
	O	12-54-11						O from NS 12h51m52s
	PEN	13-06-22	5					
	SN	13-18-40	12					
	SE	13-18-22	12					
	LN	13-43-22	40					
30th	LE	13-43-42	40					
	MN	14-04-42	20	140				
	ME	14-06-22	20		227			
	FE	18-20-02						
	PE	3-08-56	8					
30th	PN	3-09-04	8					
	LE	3-29-24	30					
	ME	3-41-24	20		7			
	FE	4-52-04						

F. Napier Denison,
Seismologist

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle Period 12 seconds.

Magnification 250
Damping 20-1

No. AND DATE	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
1929. July 2nd.		Small quake from	2h 56m 10s.					
3rd.	PEN	0-57-39	5-7					
	LN	1-01-27	10					
	MN	1-01-56	10	5				
	F	1-35-59						
3rd.	PE	18-17-05	6					
	LE	18-35-40	20					
	ME	18-42-00	20		3			
	FE	19-19-00						
4th	O	4-28-05						
	PEN	4-33-20	6-7					
	SE	4-37-32	10					
	SN	4-37-22						
	LEN	4-38-40	20-22					0 from NS 4h28m17s
	ME	4-39-55	20		139		2590	
	MN	4-39-50	10	58			2460	
	FN	6-03-00						
4th.	O	14-18-58						
	PEN	14-25-54	6-10					
	SE	14-31-24	10					
	SN	14-31-26	10					
	LE	14-34-13	20					0 from NS 14h18m55s
	LN	14-34-04	20					
	ME	14-35-56	20		229		3700	
	MN	14-34-44	20	145			3740	
	F	19-59-04						
5th	PEN	22-43-05	6-5					
	LE	22-47-35	15					
	LN	22-48-35	18					
	ME	22-56-15	20		52			
	MN	22-58-05	15	23				
	F	2-10-05						
6th	O	2-04-01						
	PE	2-10-45	5					
	PN	2-10-40	8					
	SEN	2-16-05	10					0 from NS 2h 03m50s
	LE	2-19-55	18					
	LN	2-18-30	25					
	ME	2-20-45	30		55		3540	
	MN	2-18-57	30	55			3620	
	FE	5-57-05						
6th	O	9-46-14						
	PEN	9-57-38	5					
	SE	10-07-01	10					
	SN	10-06-56	8					
	LE	10-21-51	30					
	LN	10-20-31	30					
	ME	10-26-50	18		17		8060	
	MN	10-26-56	16	12			7950	
	FE	12-11-05						
7th		Small quake from	6h28m39s to					
7th	PEN	9-39-36	5					
	LE	9-43-11	20					
	ME	9-47-41	18		2			
	FE	10-44-11						

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		h. m. s.	s.	μ	μ	μ		
1929	July (Continued)							
7th	O	21-22-59						
	PE	21-29-59	8					
	PN	21-30-00	8					
	LEN	21-35-32	10					
	ME	21-40-12	20		264		3750	O from NS 21h23m01s
	MN	21-36-42	10	176			3740	
	FE	3-37-22						
8th	SE	19-21-00	10					
	SN	19-28-20	20					P not intelligible
	ME	19-34-40	16		4			
	FE	21-33-00						
11th	O	20-57-13						
	P	21-04-00	3					
	SE	21-09-22	8					
	LE	21-13-35	30					
	ME	21-14-05	20		10		3580	
	FE	22-47-57						
12th	O	15-54-36						
	P	15-59-33	3					
	SEN	16-03-30	8-6					
	LEN	16-04-45	30					
	ME	16-06-00	10		16		2400	
	FE	16-54-00						
13th	LE	8-23-21	18					
	ME	8-28-09	30		6			
	FE	8-57-01						
13th	O	14-51-20						
	PE	15-03-52	5					
	SE	15-16-10	10					
	LE	15-33-06	30					
	ME	15-34-44	22		7		11,930	
	FE	17-23-01						
14th	O	9-36-43						
	PE	9-45-53	2					
	PN	9-46-00	3					
	SN	9-53-04						
	SE	9-53-11	10					O from NS 9h37m06s
	LE	10-01-46	32					
	LN	10-01-41	25					
	ME	10-02-00	32		111		5670	
	MN	10-01-41	25	32			5400	
	FE	12-28-03						
15th	PE	8-08-35	3					
	LE	8-39-25	24					
	ME	8-42-05	20		5			
	FE	10-20-05						
17th	O	8-37-51						
	PEN	8-44-59	5-7					
	SE	8-50-39	8					
	SN	8-49-35	10					
	LE	8-54-59	24					O from NS 8h39m11s
	LN	8-52-19	20					
	ME	8-55-29	20		26		3870	
	MN	8-53-39	24	20			2910	
	FE	11-27-59						
17th	PN	20-17-38						
	LEN	20-35-28	20					
	MEN	20-37-48	18	2	3			
	F	20-47-58						

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		h. m. s.	s.	μ	μ	μ		
1929 July								
18th	O	6-22-25						
	PEN	6-23-28	3					
	LE	6-24-20	6					
	LN	6-24-18	10					
	ME	6-25-06	10		1		470	
	FE	6-29-58						
18th	O	6-52-54						
	P	6-56-27	10					
	LE	6-59-19	20					
	LN	6-59-27	20					
	ME	7-01-55	20		9		1660	O from NS 6h52m45s
	FE	7-49-57						
21st.	PE	10-28-43	5					
	LE	10-43-33	16					
	ME	10-51-11	14		1			
	F	11-24-53						
21st.	PE	13-40-37	5					
	LE	13-59-57	20					
	ME	14-08-27	20		3			
	FE	14-31-53						
23rd	O	18-42-44						
	PN	18-52-18	5					
	S	18-59-58	10					
	LE	19-07-56	30					
	LN	19-08-38	30					
	ME	19-11-24	18		40		6070	
	MN	19-14-30	20	49				
	FN	20-44-58						
25th	LE	1-09-17	24					
	ME	1-12-07	20		5			
	FE	1-31-55						
25th	LE	23-53-37	30					
	ME	23-56-53	20		3			NS too small to measure
	FE	0-17-53						
26th	PE	23-08-22	5					
	LE	23-21-10	15					
	ME	23-30-50	15		2			
	FE	0-13-50						
27th	PE	13-15-18	3					
	LE	13-33-38	30					
	ME	13-36-08	20		3			NS too small to measure
	FE	13-41-48						
30th	PN	4-06-22	4					
	PE	4-06-28	4					
	LE	4-12-20	20					
	ME	4-14-16	16		4			FE 4h 23m 46s
31st.	O	7-47-27						
	P	7-51-35	4					
	SE	7-57-15	10					
	LE	8-06-45	20					
	ME	8-09-43	18		4		3870	
	FE	8-29-45						

F. Napier Denison,
Seismologist.

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

Period 12 seconds.

Magnification 250

Damping 20-1
REMARKS

NO. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
		h. m. s.	s.					
1929. AUGUST								
1st.	PM	5-21-23	5					
	LN	5-59-53	30					
	MN	6-15-23	20	3				
	FN	6-28-03						
1st.	Small	quake from 8h 36m 35s to 9h 20m 03s.						
3rd.	O	12-49-27						
	PEN	13-01-26	4					
	SE	13-11-24	10					
	LE	13-25-06	25					
	ME	13-26-58	20		3		8750	
	FE	14-17-06						
3rd.	O	14-56-16						
	PE	15-08-58	5					
	PN	15-09-26	5					
	SEN	15-19-38	10-8					
	LE	15-36-46	30					
	ME	15-40-06	20		3		9600	
	FE	16-47-06						
3rd.	PEN	18-52-26	5					
	LE	19-01-06	20					
	LN	19-00-36	20					
	ME	19-02-06	20		5			
	FE	20-47-06						
4th	PE	22-42-39	5					
	LE	23-06-07	20					
	ME	23-07-19	20		2			
	FE	0-05-07						
8th.	O	13-07-28						
	PEN	13-15-38	5					
	SN	13-22-02	8					
	SE	13-22-06	8					O from NS at 13h 07m 33s.
	LE	13-35-08	22					
	LN	13-33-18	20					
	ME	13-56-06	20		12		4730	
	FE	15-37-48						
12th	PE	11-40-48	5					
	EN	11-41-34	12					
	LE	11-42-34	10					Quake sent with centre near Attica, N.Y.
	MN	11-42-44	10	1				
	ME	11-44-26	10		1			
	FN	11-47-34						
14th.	LE	3-12-43	30					
	ME	3-24-35	20		3			
	FE	4-08-03						
14th.	Small	quake from 13h 28m 03s to 13h 45m 03s.						
14th.	LE	14-32-03	18					
	ME	14-42-23	10		5			
	FE	16-04-03						
14th	O	19-01-19						
	PE	19-04-23	5					
	PN	19-04-13	4					
	LN	19-06-11	8					O from NS at 19h 01m 49s
	LE	19-06-53	12					
	ME	19-09-03	10		8		1430	
	MN	19-08-35	10	12			1100	
	FN	20-28-03						

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

No. AND DATE	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
1929 August (continued)								
15th	O	19-56-24						
	PE	20-06-04	5					
	SE	20-13-49	8					
	LE	20-24-26	30					
	ME	20-30-19	18		14		6160	
	PN	20-05-59	5					
	SN	20-13-44	8					O from NS at 19h56m19s
	FE	21-39-04						
16th.	Small	quake from	21h58m36s					
16th	LE	23-51-34	20					
	ME	23-54-46	18		4			
	FE	0-16-06						
17th	O	23-40-22						
	PE	23-48-06	6					
	SE	23-54-06	10					
	LE	23-59-56	25					
	ME	0-05-36	14		114		4220	
	MN	0-02-26	20	140				
	FN	1-43-06						
18th	SE	8-58-15	10					
	LE	9-04-45	20					
	ME	9-25-00	20		15			
	MN	9-30-37	12	11				
	FE	11-13-05						
19th	O	2-43-34						
	PE	2-55-53	5					
	SE	3-06-10	8					
	SN	3-06-25	10					
	LE	3-24-25	20					
	ME	3-35-33	18		7		9130	
	FE	5-00-05						
20th	LE	17-29-55	12					
	ME	18-11-20	15		2			
	FE	18-34-55						
28th	LN	19-10-39	14					
	MN	19-20-22	14	2				
	FN	21-14-04						EW record lost in developing.
30th	LE	7-49-16	20					
	ME	7-58-14	20		2			
	FE	9-09-04						

F. Napier Denison,
Seismologist.

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

PERIOD 12 seconds

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

Magnification 250

Damping 20-1

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
		h. m. s.	s.	μ	μ	μ		
1929								
SEPTEMBER.								
1st.	Small quake	14h 05m 20s						
1st.	SE?	16-17-42	8					
	LE	16-36-42	30					
	ME	16-58-30	24		4			
	FE	17-32-02						
2nd.	O	11-14-32						
	PE	?11-26-42	5					
	SE	11-36-50	10					
	LE	11-57-54	30					
	ME	12-09-32	18		4		8950	
	FE	13-07-02						
3rd.	LN	13-08-28	25					
	MN	13-14-20	20	5				
	PN	13-16-58						
5th	LE	10-13-56	20					
	ME	10-15-56	18		5			
	FE	10-21-56					NS clock stopped.	
8th.	PE	10-53-36	5					
	LE	10-57-04	18					
	ME	10-58-54	20		4		2040	
	FE	11-13-54						
8th.	Small quake	14h 12m 24s						
10th	LE	21-53-22	22					
	ME	21-58-53	20		3			
	FE	22-29-00						
14th	LE	2-53-48	22					
	ME	2-56-48	20		4			
	FE	3-16-08						
17th	LE	5-57-58	20					
	ME	5-58-16	20		3			
	FE	6-07-01						
17th	PEN	19-18-50	7-8					
	LE	19-20-30	10					
	PV	19-18-50	4					
	LV	19-20-30	7					
	MV	19-23-30	7					
	FE	22-51-00			300	920		
18th.	PN	15-46-32	5					
	LEN	15-47-22	12					
	MN	15-47-22	12	1			450	
	F	19-52-02						
18th.	PN	17-01-03	5					
	LN	17-02-43	12					
	MN	17-03-38	10	2			920 Queen Charlotte Is.	
	FN	17-09-03						
21st.	PEN	16-31-41	8					
	LEN	16-36-26	12					
	ME	16-36-56	10		14		3030	
	FE	17-05-06						
22nd	LE	16-44-46	20					
	ME	16-45-38	18		3			
	FE	16-54-06						
22nd.	Small quake from	21h 13m 44s						
23rd.	PEN	16-07-14	5					
	LE	16-09-16	8					
	ME	16-09-56	10		4		1140	
	FE	16-31-06						

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, One Weichert, Verticle

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A N	A E	A Z		
		h. m. s.	s.	μ	μ	μ		
1929								
September	(Continued)							
23rd	PE	18-16-26	3					
	LE	18-18-06	10					
	ME	18-18-16	10		2		920	Queen Charlotte Isl.B.C.
	FE	18-25-36						
23rd.	Small quake from		23h 19m 16s					
26th	O	4-51-14						
	PEN	4-58-39	4					
	SEN	5-04-32	8					
	LE	5-10-59	15					
	ME	5-13-49	12		3		4100	Hawaii
	FE	6-46-59						
26th.	Small quake from		12h 46m 09s					
26th	Small quake from		16h 00m 14s					
26th	PE	20-08-24	6					
	LE	20-09-19	10					
	ME	20-09-54	10		2		410	
	FE	20-15-28						
27th	O	23-16-13						
	PE	23-21-49	5					
	SE	23-26-17	8					
	LE	23-29-29	20					
	ME	23-31-59	15		21		2790	Clock on NS component, stopped.
	FE	0-40-59						

F. Napier Denison,
Seismologist.

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

Period 12 seconds

Magnification 250

INSTRUMENTS—Two Milne-Shaw, one Weichert, Vertical.

Damping 20-1

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
		h. m. s.	s.	μ	μ	μ		
1929, October.								
1st.	PE	22-00-33	4					
	LE	22-01-59	10					
	ME	22-02-21	7		3			
	FE	22-11-03						
2nd	LE	?10-27-16	25					
	ME	10-47-14	20		4			
	FE	11-31-04						
4th	PE	4-20-06	4					
	LE	4-21-46	12					
	ME	4-22-00	12		2			NS too small to measure.
	FE	4-31-06						
4th	PE	9-56-19	3					
	LE	9-57-18	10					
	ME	9-57-48	10		6			
	FE	10-04-07						
5th	LE	4-14-32	20					
	ME	4-19-03	14		2			
	FE	4-35-07						
5th.	LN	17-20-28	25					
	LE	17-22-20	25					
	MN	17-23-06	30	17				
	ME	17-23-16	28		21			P lost when changing papers.
	F	17-58-08						
6th	PEN	6-07-29	6-5					
	LN	6-17-27	20					
	MN	6-18-14	20	7				
	FN	6-30-09						
6th	O	7-50-17						O from NS 7-52-07
	PE	7-58-29	5					
	PN	7-58-59	5					
	SN	8-04-29	10					
	SE	8-04-59	10					
	LN	8-07-57	20					
	LE	8-10-29	18					
	MN	8-12-22	20	35			3770	
	ME	8-13-39	20		29		4770	
	FE	10-27-09						
6th	LE	13-55-07	20					
	ME	13-56-49	18		3			
	FE	14-06-09						
7th	PEN	15-30-41	5					
	LE	15-47-31	20					
	ME	15-55-11	18		3			
	FE	16-32-11						
8th	O	17-16-26						
	PEN	17-28-58	5					
	SEN	17-39-28	10					
	LN	17-52-40	30					
	LE	17-57-10	20					
	ME	18-00-35	20		9		9390	
	MN	18-01-10	20	12				
	FE	19-55-00						
14th.	PE?	10-15-52	5					
	LE	10-19-42	10					
	ME	10-27-11	12		6			
	FE	11-51-02						

VICTORIA, B.C.

EARTHQUAKE STATION, METEOROLOGICAL SERVICE OF CANADA

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

Time; Mean Greenwich, MIDNIGHT TO MIDNIGHT

INSTRUMENTS—Two Milne-Shaw, one Weichert, Vertical.

NO. AND DATE	PHASE	TIME <small>h. m. s.</small>	PERIOD <small>s.</small>	AMPLITUDE			Δ	REMARKS
				<small>A_N</small> μ	<small>A_E</small> μ	<small>A_Z</small> μ		
October 1929, continued.								
16th.	PEN	8-11-54	2					
	ME	8-11-55	2			1		Felt locally
	MN	8-11-59	2	2				
	F	8-12-09						
16th	LEN	21-19-11	20					
	ME	21-22-39	12			4		
	FE	21-44-29						
19th	O	10-14-35						O from NS 10-13-45
	PE	10-26-16	5					
	PN	10-25-51	5					
	SEN	10-35-56	10					
	LN	10-48-13	40					
	LE	10-49-01	60					
	MN	10-49-21	40	100			8890	Chili
	ME	10-56-21	30			37	8390	
	FN	11-27-01						
20th	PE	16-14-07	2					
	LEN	16-17-52	10					
	ME	16-20-39	10			3		
	FE	16-32-47						
24th	PE	6-57-52	5					
	LE	7-27-34	30					
	ME	7-33-12	20			3		
	FE	7-40-52						
24th	LE	21-26-03	10					
	ME	21-27-51	12			3		
	FE	21-35-53						
31st.	LE	15-14-30	30					
	LN	15-22-10	30					
	MN	16-07-33	30	15				
	ME	16-08-45	40			55		
	FE	16-30-00						

F. Napier Denison,
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Time: Mean Greenwich, MIDNIGHT TO MIDNIGHT

Period 12 seconds.

INSTRUMENTS—Two Milne-Shaw, one Weichert, Vertical.

Magnification 250

Damping 20-1

No. AND DATE	PHASE	TIME	PERIOD	AMPLITUDE			Δ	REMARKS
				A _N	A _E	A _Z		
		h. m. s.	s.	μ	μ	μ		
1929 November								
4th	LE	16-13-21	25					
	ME	16-15-56	20		4			
	FE	16-56-01						
5th	PN	12-02-18	6					
	LN	12-23-18	25					
	MN	12-24-13	22	5				
	FN	12-42-58						
8th	LE?	3-54-03	20					
	ME	3-55-25	20		9			
	FE	4-05-53						
9th	?PEN	1-46-52	10-5					
	LN	1-54-22	12					
	LE	1-54-42	12					
	ME	1-55-40		7	4			
	FE	3-20-52						
15th	O	18-50-27						
	PEN	19-03-17	5					
	SEN	19-13-55	10					
	LN	19-26-01	50					
	LE	19-26-47	30					
	ME	19-36-13	20	27	114	9560		
	FE	21-50-57						
16th	LE	11-06-46	15					
	ME	11-07-52	20		3			
	FE	11-13-56						
18th	O	3-44-32						
	PE	3-57-09	6					
	PN	3-57-16	6					
	SE	4-07-44	12				O from NS 3h44m39s	
	SN	4-07-51	10					
	LE	4-28-31	30					
	LN	4-23-56	30					
	ME	4-29-59	30	62	131	9490		
	FE	6-26-56						
18th	O	20-31-53						
	PNE	20-40-20	6					
	SE	20-46-54	10				O from EW 20h32m03s	
	SN	20-47-02	10				Newfoundland.	
	LN	20-56-02	20					
	LE	20-56-04	12					
	MN	20-57-02	20	605	231	4990		
	FN	23-44-02						
18th	Small	record 23h 21m 02s to 23h 31m 02s					may be after-shock.	
23rd	O	0-16-22						
	PEN	0-26-18	8-6					
	SE	0-34-18	12					
	LE	0-47-28	30				SN 0h34m03s	
	ME	0-56-56	20		12	6440		
	FE	2-35-13						
23rd.	Small	quake 21h00m12s to 21h 08m 12s.						
28th	Small	quake 8h 33m 20s to 8h 38m 38s.						
28th	Small	quake 19h 55m 43s to 20h 03m 58s.						

F. Napier Denison,
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Period 12 seconds.

Magnification 250

Damping 20-1

No. AND DATE	PHASE	TIME h. m. s.	PERIOD s.	AMPLITUDE			Δ	REMARKS
				A N μ	A E μ	A Z μ		
DECEMBER 1929.								
3rd	LE	8-21-57	20					
	ME	8-24-21	20					
	F	8-31-01						
4th.	Small quake 6-51-23 to 6-58-03							
4th	LE	12-33-28	10					
	ME	12-33-43	10					
	FE	12-36-03						
6th	Trace from 12-49-25 to 13-04-05							
6th	PE	?17-08-08	8					
	LE	17-56-30	20					
	ME	18-01-25	20					
	FE	18-30-05						
6th	PN	20-43-45	8					
	SN	21-00-15	12					
	LN	21-23-23	30					
	MN	21-26-25	30					
	FN	22-31-05						
9th	PE	?7-16-04	8					
	SE	?7-31-09	12					
	LE	7-48-14	30					
	ME	7-54-25	30					
	FE	9-13-04						
13th	LE	9-02-43	30					
	ME	9-07-41	20					FE 9-30-53
15th	PE	2-00-21	8					
	LE	2-02-09	15					
	ME	2-05-01	12					Small amplitude.
	FE	2-07-51						
16th	LE	12-08-59	20					
	ME	12-11-57	15					
	FE	12-29-49						
17th	PE	21-52-16	5					
	LE	22-10-14	30					
	ME	22-14-22	20					
	FE	22-42-54						
18th	Two small quakes at 7-45-54 to 8-10-54 & at 10-36-06 to 11-15							
19th	Trace from 19-54-14 to 20-08-27							
20th	Trace from 8-15-29 to 8-20-54							
24th	LN	5-13-56	20					
	MN	5-15-41	14					
	FN	5-28-01						
28th	L	12-34-25	20					
	ME	12-35-05	20					
	FE	12-38-10						Small amp.
30th	Small quake with M at 11-58-56, other phases uncertain.							

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