



SEISMOLOGICAL SERIES
of the
DOMINION OBSERVATORY

1961-1
(Continued)

Seismological Bulletin
April - June
1961

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1961

SEISMOLOGICAL BULLETIN - 1961

APRIL - JUNE 1961

NOTES

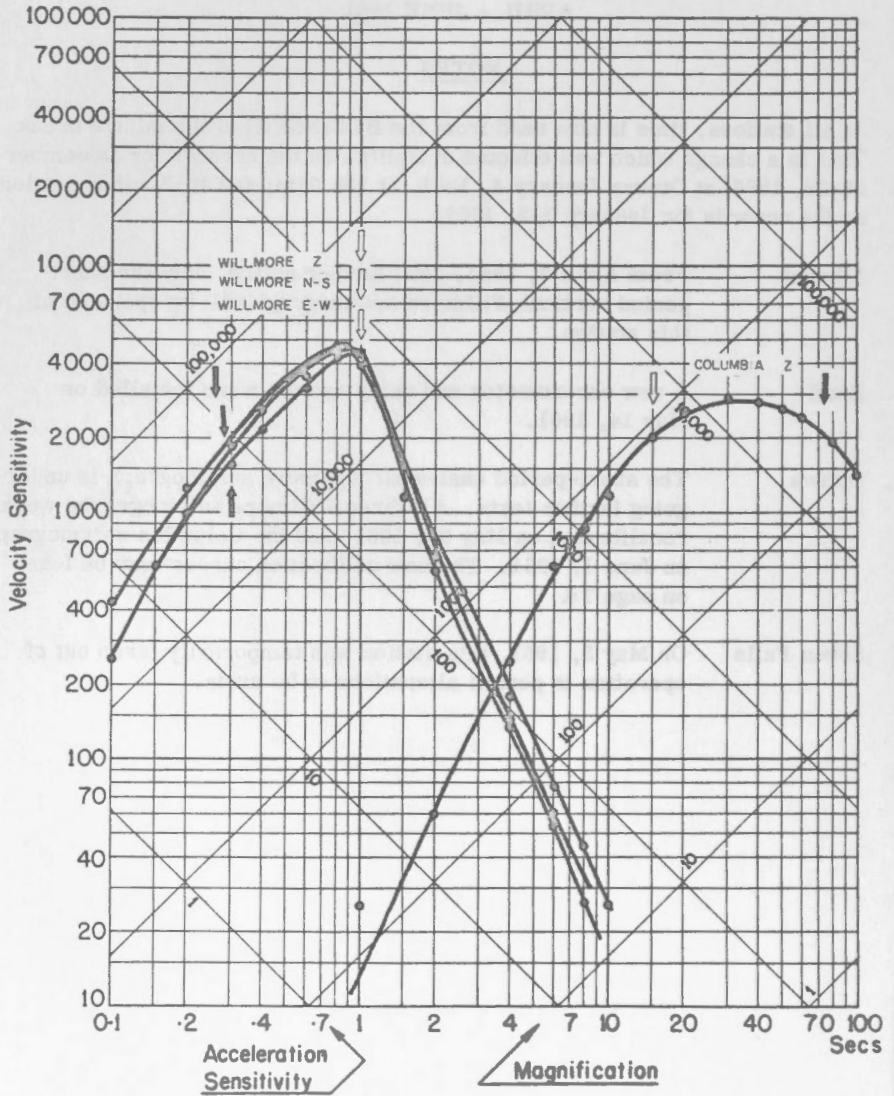
1. At all stations, time is now read from the BEGINNING of the minute break. This is a change which was effected at Halifax on the records for December 28-29, 1960; at Ottawa January 4, 1961, at 20h 06m; and at all other stations on the records for January 1-2, 1961. .
2. Alberni From April 7, 1961, until further notice, only the short-period vertical Willmore seismograph will be operated at this station.
3. Banff A new chronometer and relay system were installed on May 14, 1961.
4. Ottawa The short-period east-west Willmore seismograph is undergoing further tests. All three Willmore seismographs were recalibrated on May 30, 1961, and the Columbia seismograph on June 1, 1961. The new calibration curves may be found on page 76.
5. Seven Falls On May 3, 1961, this station was temporarily taken out of operation to permit alterations to be made.

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CALIBRATION CURVES

STATION: OTTAWA



$\phi = 45^{\circ}23'38''N$ $\lambda = 75^{\circ}42'57''W$ Altitude 83M

Foundation : Boulder clay on limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: May - June 1961

Willmore's

Columbia

S. P. Z. MAY - 30

L. P. Z.

S. P. H. - N. S. MAY - 30

S. P. H. - E. W. MAY - 30

JN1

SEISMOLOGICAL BULLETIN - 1961

APRIL 1

48.4°N, 122.2°W
East of Mount Vernon,
Washington, U.S.A.
H = 01 01 19
Mag 2.9

Alberni

eP_n 01 01 56.7
eS_n 01 02 13.4
D = 254 km

Penticton

S-P = 25.8 secs.
D = 211 km

Victoria

eP₁ 01 01 34.5
eS₁ 01 01 46.3
D = 97 km

APRIL 1

48.7°N, 122.3°W
East of Bellingham,
Washington, U.S.A.
H = 01 02 57
Mag 2.5

Alberni

eP_n 01 03 27.9
eS_n 01 03 50.2
D = 199 km

Penticton

S-P = 25.2 secs.
D = 205 km

Victoria

eP₁ 01 03 11.6
eS₁ 01 03 22.8
D = 92 km

APRIL 1

48.4°N, 122.1°W
East of Mount Vernon
Washington, U.S.A.
H = 01 07 35
Mag 2.2

Alberni

eP_n 01 08 15.1
eS_n 01 08 33.9
D = 236 km

Victoria

eP₁ 01 07 49.5
eS₁ 01 08 00.7
D = 92 km

APRIL 1

U.S.C.G.S.
30.5N, 139.7E
South of Honshu,
Japan
H = 02 40 43.8
h = 135 km

Resolute

eP 02 51 40 c?
Victoria
eP 02 51 57

APRIL 1

Resolute
eP? 03 25 22

APRIL 1

U.S.C.G.S.
50.6N, 159.9E
Off coast of
Kamchatka
H = 08 08 19.4
h = 38 km
Resolute
eP 08 16 39

APRIL 1

Probably east of
Bellingham, Washington
U.S.A.
H = 15 25 24
Mag 2.3
Alberni
eP_n 15 25 55.1
eS_n 15 26 17.1
D = 180 km
Penticton
S-P = 24.2 secs.
D = 198 km

Victoria

eP₁ 15 25 38.4
eS₁ 15 25 48.5
D = 91 km

APRIL 1

U.S.C.G.S.
39.6N, 77.7E
Sinkiang Province
China
H = 15 18 22.8
h = 21 km
Mag 6

Alberni

eP 15 31 25
Halifax
eP 15 31 21 d

Resolute

eP 15 29 07
PPP? 15 33 07?
eS 15 37 56?
S_CS? 15 39 02

Shawinigan Falls

eP 15 31 25
Victoria
eP 15 31 28

APRIL 1

48.9°N, 122.2°W
Northeast of Bellingham,
Washington, U.S.A.
H = 16 10 20
Mag 2.3

Alberni

eP_n 16 10 50.0
eS_n 16 11 12.6
D = 192 km

Penticton

S-P = 24.6 secs.
D = 202 km

Victoria

eP₁ 16 10 34.6
eS₁ 16 10 45.9
D = 93 km

DOMINION OBSERVATORIES

APRIL 2

U. S. C. G. S.
30.6N, 138.4E
South of Honshu,
Japan
H = 02 44 49.5
h = 175 km
Resolute
eP 02 55 43

APRIL 2

U. S. C. G. S.
8.6S, 75.0W
Peru
H = 11 14 30.1
h = 169 km
Resolute
eP 11 26 47

APRIL 2

Resolute
eP 22 38 25

APRIL 2

47.6°N, 121.7°W
East of Seattle,
Washington, U. S. A.
H = 23 32 57
Mag 2.0
Penticton
eP_n 23 33 31.7
eS_n 23 34 03.7
D = 250 km
Victoria
eP₁ 23 33 20.5
eS₁ 23 33 38.7
D = 161 km

APRIL 3

U. S. C. G. S.
6.8N, 72.9W
Colombia
H = 01 10 32.2
h = 221 km
Ottawa
iP 01 17 38 c
Penticton
eP 01 19 59 d

Resolute
eP 01 21 18 c
Shawinigan Falls
eP 01 17 48
Victoria
eP 01 20 17

APRIL 3

U. S. C. G. S.
53.6N, 161.1E
Near coast of
Kamchatka
H = 02 43 48.9
h = 25 km
Resolute
eP 02 51 46

APRIL 3

Resolute
eP 02 56 19

APRIL 3

Resolute
eP 05 31 45?

APRIL 3

U. S. C. G. S.
17.5N, 84.1W
Caribbean Sea
H = 07 55 52.1
h = 92 km
Penticton
eP 08 03 41
Resolute
iP 08 05 33

APRIL 3

Canadian Arctic
H = 08 42 43
Mag 3.6
Resolute
iP_n 08 44 39
iS_n 08 46 03
D = 910 km

APRIL 3

U. S. C. G. S.
52.5N, 158.9E
Near coast of
Kamchatka
H = 16 32 04.3
h = 38 km
Ottawa
P 16 43 24
Resolute
iP 16 40 12 c
i 16 41 56

APRIL 3

Ottawa
eP 23 34 07 c

APRIL 4

U. S. C. G. S.
39.7N, 78.1E
China
H = 01 17 59.3
h = 81 km
Resolute
eP 01 28 39

APRIL 4

Resolute
eP 02 49 56

APRIL 4

Victoria
eP 07 10 29

SEISMOLOGICAL BULLETIN - 1961

APRIL 4 U. S. C. G. S. 26.9N, 125.8E Ryukyu Islands H = 07 38 50.2 h = 48 km Resolute eP 07 50 30	APRIL 4 Resolute eP 22 56 30	APRIL 6 Resolute eP 01 02 05?
APRIL 4 Resolute eP 09 18 30	APRIL 4 Resolute eP 23 20 47	APRIL 6 U. S. C. G. S. 39.6N, 77.8E China H = 01 33 46.9 h = 33 km Resolute eP 01 44 32 Shawinigan Falls eP 01 46 48
APRIL 4 U. S. C. G. S. 40.1N, 77.8E China H = 09 46 36.6 h = 16 km Ottawa P 09 59 52 Resolute eP 09 57 21 eS 10 06 16?	APRIL 5 Canadian Arctic H = 01 13 07.5 Mag 1.4 Resolute iP ₁ 01 13 12.8 iS ₁ 01 13 16.8 D = 32.8 km	APRIL 6 U. S. C. G. S. 44.3N, 148.1E Kurile Islands H = 03 18 28.1 h = 26 km Resolute eP 03 27 54 c
Shawinigan Falls eP 09 59 42 Victoria eP 09 59 41	APRIL 5 Resolute eP 04 54 37	
APRIL 4 Resolute eP 12 56 25	APRIL 5 U. S. C. G. S. 39.7N, 78.1E China H = 06 47 07.4 h = 79 km Resolute eP 06 57 49?	APRIL 6 U. S. C. G. S. 40.1N, 124.8W Near coast of California H = 04 04 46.1 h = 73 km Mag 5 Alberni eP 04 06 50 Halifax P 04 12 54 Ottawa iP 04 11 42 c Penticton eP 04 06 43 Resolute iP 04 11 51 d? eS 04 17 38 Shawinigan Falls eP 04 11 58 c Victoria eP 04 06 40
APRIL 4 Canadian Arctic H = 17 37 54 Mag 4.5 Resolute eP _n 17 41 47 iS _n 17 44 33 eLg 17 46 33 D = 1850 km	APRIL 5 U. S. C. G. S. 52.2S, 160.0E Macquarie Island region H = 21 30 00.4 h = 47 km Resolute eP' 21 49 27 Shawinigan Falls eP' 21 49 35 d	

DOMINION OBSERVATORIES

APRIL 6 Resolute eP 12 51 20	APRIL 7 U. S. C. G. S. 36. 2N, 70. 8E Hindu Kush region H = 04 40 37. 0 h = 73 km Resolute eP 04 51 40	APRIL 7 Resolute eP 12 14 32
APRIL 6 Resolute eP 13 24 01?	APRIL 7 U. S. C. G. S. 36. 1N, 70. 7E Hindu Kush region H = 04 52 40. 0 h = 60 km Resolute eP 05 03 38?	APRIL 7 U. S. C. G. S. 57. 2N, 163. 3E Near coast of Kamchatka H = 19 54 51. 9 h = 20 km Halifax eP 20 06 11 Ottawa P 20 05 41 Resolute iP 20 02 17 eS 20 08 15 Shawinigan Falls eP 20 05 43 Victoria eP 20 02 52
APRIL 6 U. S. C. G. S. 2. 2N, 97. 2E Near coast of Sumatra H = 14 05 00. 3 h = 25 km Resolute eP 14 19 01	APRIL 7 U. S. C. G. S. 27. 8N, 56. 7E Southern Iran H = 18 12 40. 7 h = 109 km Resolute eP 18 24 22 Shawinigan Falls eP 18 25 47	APRIL 7 U. S. C. G. S. 39. 3N, 73. 0E Kirghiz-Tadzhik border H = 21 17 43. 8 h = 44 km Resolute iP 21 28 29 Shawinigan Falls iP 21 30 40 d Victoria eP 21 30 50
APRIL 6 U. S. C. G. S. 1. 9N, 96. 5E Near coast of Sumatra H = 22 26 29. 6 h = 25 km Resolute eP? 22 40 30	APRIL 7 U. S. C. G. S. 51. 1N, 156. 7E Near coast of Kamchatka H = 08 35 54. 9 h = 32 km Resolute iP 08 44 19 Shawinigan Falls eP 08 47 29	APRIL 8 U. S. C. G. S. 2. 6S, 81. 0W Near coast of Ecuador H = 03 06 49. 9 h = 25 km Resolute eP 03 18 45?

SEISMOLOGICAL BULLETIN - 1961

APRIL 8	APRIL 8	APRIL 8
U.S.C.G.S.	U.S.C.G.S.	U.S.C.G.S.
2.2S, 79.2W	10.0N, 122.1E	37.6N, 140.3E
Ecuador	Philippine Islands	Honshu, Japan
H = 04 22 08.7	H = 11 48 35.9	H = 19 18 54.8
h = 25 km	h = 62 km	h = 189 km
Ottawa	Resolute	Ottawa
P 04 30 43	eP 12 01 44	iP 19 31 42 c
Resolute		Resolute
eP 04 34 02		iP 19 28 59 d
Shawinigan Falls	APRIL 8	i 19 29 29
eP 04 30 56	Resolute	Shawinigan Falls
	eP? 13 33 02	eP 19 31 43
APRIL 8		
Resolute	APRIL 8	APRIL 8
eP 04 41 59?	Resolute	U.S.C.G.S.
	eP 14 01 40	14.8N, 145.1E
APRIL 8		Mariana Islands
U.S.C.G.S.	APRIL 8	H = 21 36 41.6
2.1S, 79.1W	Shawinigan Falls	h = 105 km
Ecuador	eP 17 55 52	Mag 6 1/2
H = 04 47 01.8		Alberni
h = 24 km		eP 21 48 38
Halifax	APRIL 8	Resolute
eP 04 55 47 c(?)	U.S.C.G.S.	eP 21 48 59 d
Ottawa	38.2S, 72.7W	Victoria
P 04 55 37	Chile	eP 21 48 43
Resolute	H = 17 59 46.7	
eP 04 58 56	h = 60 km	APRIL 8
Shawinigan Falls	Mag 6 1/2	Resolute
eP 04 55 48 c	Halifax	eP 23 39 14
	iP 18 12 09.5 c	
APRIL 8	Ottawa	
U.S.C.G.S.	iP 18 12 10 c	APRIL 9
2.1S, 79.1W	Resolute	U.S.C.G.S.
Ecuador	eP? 18 14 28?	14.6N, 145.3E
H = 09 03 48.9	e 18 18 00?	Mariana Islands
h = 24 km	eS? 18 26 53	H = 00 29 51.7
Ottawa	Shawinigan Falls	h = 118 km
P 09 12 23.5	eP 18 12 17	Resolute
Resolute		eP 00 42 08
eP 09 15 42	APRIL 8	i 00 42 09
Shawinigan Falls	Resolute	
eP 09 12 35	eP 18 49 51 c	
Victoria		
eP 09 14 22		

DOMINION OBSERVATORIES

APRIL 9
 U. S. C. G. S.
 36.5N, 121.3W
 California
 H = 07 23 16.0
 h = 11 km
 Mag 5 3/4
 Ottawa
 P 07 30 11.5
 Resolute
 eP 07 30 54
 eS? 07 37 09?
 Shawinigan Falls
 eP 07 30 28
 Victoria
 eP 07 26 12

APRIL 9
 U. S. C. G. S.
 37.0N, 120.7W
 California
 H = 07 25 41.6
 h = 13 km
 Mag 5 1/2
 Resolute
 eP 07 33 18

APRIL 9
 Resolute
 eP 08 36 47

APRIL 9
 U. S. C. G. S.
 26.0S, 178.4E
 South of Fiji Islands
 H = 09 21 29.0
 h = 655 km
 Ottawa
 eP' 09 39 08 (c)
 e 09 41 45 (c)
 Resolute
 eP' 09 38 58
 e 09 41 35

APRIL 9
 U. S. C. G. S. -
 29.7N, 138.2E
 South of
 Honshu, Japan
 H = 13 20 49.0
 h = 352 km
 Resolute
 eP 13 31 27 c?

APRIL 9
 U. S. C. G. S.
 24.1N, 122.2E
 Near coast of
 Formosa
 H = 15 35 05.4
 h = 13 km
 Mag 6
 Resolute
 eP 15 47 07
 i 15 47 09
 i 15 57 00
 Victoria
 eP 15 47 54

APRIL 9
 Resolute
 iP 16 13 41 c

APRIL 9
 Canadian Arctic
 H = 16 40 50.1
 Mag 2.3
 Resolute
 iP₁ 16 40 58.0
 iS₁ 16 41 04
 D = 49 km

APRIL 9
 U. S. C. G. S.
 18.2S, 70.2W
 Chile-Peru border
 H = 17 17 47.6
 h = 29 km
 Resolute
 eP 17 31 08

Shawinigan Falls
 eP 17 28 29

APRIL 9
 U. S. C. G. S.
 18.6N, 147.7E
 Mariana Islands
 region
 H = 19 56 19.0
 h = 65 km
 Resolute
 eP 20 08 19

APRIL 10
 U. S. C. G. S.
 24.1N, 122.3E
 Near coast of Formosa
 H = 06 57 13.6
 h = 22 km
 Resolute
 eP 07 09 16

APRIL 10
 Resolute
 eP 09 15 29?

APRIL 10
 Resolute
 eP? 13 16 04?

APRIL 10
 U. S. C. G. S.
 36.2N, 141.7E
 Near coast of
 Honshu, Japan
 H = 17 15 47.7
 h = 60 km
 Resolute
 eP 17 26 12 c

SEISMOLOGICAL BULLETIN - 1961

<p>APRIL 10 28 km from Victoria H = 18 55 57 Mag 1.8 Alberni eP₁ 18 56 16.4 eS₁ 18 56 24.0 D = 119 km Victoria eP₁ 18 56 01.8 eS₁ 18 56 05.2 D = 28 km</p>	<p>APRIL 11 Resolute eP 05 24 25?</p> <p>APRIL 11 Resolute iP 16 36 35</p> <p>APRIL 11 U. S. C. G. S. 8.8S, 117.4E Near coast of Soembawa Island H = 18 32 45.0 h = 182 km Resolute eP' 18 51 02?</p> <p>APRIL 11 U. S. C. G. S. 50.0N, 128.6W North of Vancouver Island H = 20 33 48.9 h = 25 km Mag 3.6 Alberni eP 20 34 39 Penticton eP 20 35 23 Resolute eP 20 39 29? Victoria eP 20 34 54</p> <p>APRIL 11 Resolute eP 22 03 56?</p>	<p>APRIL 12 U. S. C. G. S. 30.8S, 178.6W Kermadec Islands region H = 03 06 53.9 h = 190 km Resolute eP' 03 25 21</p> <p>APRIL 12 Resolute eP? 05 52 58</p> <p>APRIL 12 Resolute eP? 12 40 15?</p> <p>APRIL 12 U. S. C. G. S. 45.9N, 149.4E Kurile Islands H = 15 02 00.1 h = 25 km Resolute eP 15 11 15</p> <p>APRIL 12 U. S. C. G. S. 0.3N, 123.8E Northern Celebes H = 17 17 55.3 h = 122 km Resolute eP 17 31 38 Shawinigan Falls eP' 17 36 58</p>
<p>APRIL 10 Resolute eP 19 21 22?</p>		
<p>APRIL 10 Resolute eP? 19 27 57</p>		
<p>APRIL 10 U. S. C. G. S. 0.2S, 132.9E Near coast of New Guinea H = 19 40 15.9 h = 36 km Resolute eP 19 54 04</p>		
<p>APRIL 10 Resolute eP 20 59 39 iP 20 59 45 d</p>		
<p>APRIL 11 U. S. C. G. S. 36.7N, 141.6E Off coast of Honshu, Japan H = 00 29 49.2 h = 100 km Resolute iP 00 40 08 c</p>		

DOMINION OBSERVATORIES

APRIL 12	Shawinigan Falls	APRIL 13
U. S. C. G. S.	iP 22 27 27 c	90 km from Penticton
48. 1N, 154. 7E	Victoria	H = 14 02 22
Kurile Islands	eP 22 28 44 c	Mag 1. 7
H = 17 27 46. 5		Penticton
h = 42 km		eP ₁ 14 02 37. 0
Ottawa	APRIL 12	eS ₁ 14 02 47. 9
eP 17 39 35	Resolute	D = 90 km
Penticton	iP 22 48 48	
eP 17 37 03 c		
Resolute		
eP 17 36 32 c?	APRIL 12	APRIL 13
Shawinigan Falls	Resolute	U. S. C. G. S.
eP 17 39 37	eP 22 59 07?	27. 0N, 128. 3E
Victoria		Ryukyu Islands
eP 17 36 53 c		H = 15 26 11. 0
		h = 197 km
	APRIL 13	Resolute
	Resolute	eP 15 37 32 d?
	eP 03 22 33	
APRIL 12		
U. S. C. G. S.		
23. 2N, 142. 4E		
Mariana Islands	APRIL 13	APRIL 13
region	Canadian Arctic	U. S. C. G. S.
H = 17 52 02. 0	H = 06 33 11. 0	40. 1N, 77. 8E
h = 64 km	Mag 1. 8	Sinkiang, China
Resolute	Resolute	H = 16 34 39. 1
eP 18 03 42 c?	e 06 33 32. 5	h = 19 km
	iP ₁ 06 33 34	Halifax
	iS ₁ 06 33 55. 5	eP 16 47 35
	D = 134 km	Ottawa
		P 16 47 49
APRIL 12		Penticton
U. S. C. G. S.		eP 16 47 36
13. 1N, 88. 9W	APRIL 13	Resolute
El Salvador	49. 9°N, 120. 6°W	eP 16 45 23 c?
H = 22 20 33. 6	South of Merritt, B. C.	eS 16 54 16
h = 122 km	H = 13 08 01	Shawinigan Falls
Mag 5 3/4	Mag 3. 0	eP 16 47 39
Alberni	Alberni	Victoria
eP 22 28 55	eP ₁ 13 08 48. 0	eP 16 47 38
Halifax	D = 333 km	
eP 22 27 46. 5 c	Penticton	
Ottawa	iP ₁ 13 08 16. 7	
iP 22 27 10 c	iS ₁ 13 08 28. 9	
Penticton	D = 100 km	
eP 22 28 31 d	Victoria	
Resolute	eP _n 13 08 39. 7	
iP 22 30 42 c	eS _n 13 09 07. 2	
PPP? 22 34 56	D = 265 km	
eS 22 38 58		

SEISMOLOGICAL BULLETIN - 1961

APRIL 13

U. S. C. G. S.
27. 9S, 67. 3W
Argentina
H = 23 43 04.7
h = 219 km
Shawinigan Falls
eP 23 54 28

APRIL 15

U. S. C. G. S.
40. 0N, 77. 6E
Sinkiang China
H = 02 55 32.8
h = 25 km
Resolute
eP 03 06 18

APRIL 16

U. S. C. G. S.
29. 9N, 138. 8E
South of Honshu,
Japan
H = 06 17 21.3
h = 387 km
Resolute
eP 06 27 55

APRIL 14

U. S. C. G. S.
31. 1S, 178. 5W
Kermadec Islands
H = 04 02 31.2
h = 60 km
Resolute
iP' 04 21 12

APRIL 15

U. S. C. G. S.
32. 2S, 178. 9W
Kermadec Islands
region
H = 09 36 24.4
h = 131 km
Resolute
eP' 09 55 01

APRIL 16

U. S. C. G. S.
53. 5N, 158. 7E
Kamchatka
H = 11 40 40.7
h = 27 km
Alberni
eP 11 49 05
Banff
eP 11 48 33
Halifax
iP 11 52 26.5d
Ottawa
eP 11 51 58
Penticton
iP 11 49 24 c
Resolute
iP 11 48 44 d
Shawinigan Falls
eP 11 51 59 c
Victoria
iP 11 49 14 c

APRIL 14

U. S. C. G. S.
10. 2N, 143. 6E
Mariana Islands
H = 12 41 02.5
h = 25 km
Resolute
eP 12 53 54

APRIL 15

Canadian Arctic
H = 10 36 10
Mag 3.9
Resolute
eP 10 38 05
iS_n 10 39 29
eLg 10 40 18
D = 900 km

APRIL 15

U. S. C. G. S.
34. 3N, 141. 6E
Off coast of
Honshu, Japan
H = 00 14 49.2
h = 100 km
Resolute
eP 00 25 23
i? 00 26 08

APRIL 15

U. S. C. G. S.
14. 9N, 119. 3E
Off coast of
Luzon, Philippine
Islands
H = 10 37 41.9
h = 115 km
Resolute
eP 10 50 23

APRIL 16

U. S. C. G. S.
51. 6N, 130. 6W
Off coast of
Vancouver Island
H = 12 22 47.1
h = 50 km
Mag 4.2
Alberni
eP 12 23 52
Banff
eP 12 25 10
Penticton
eP 12 24 35
D = 829 km

APRIL 15

Victoria
eP 00 41 14

DOMINION OBSERVATORIES

Ottawa		APRIL 17		APRIL 17
eP	12 29 50	U. S. C. G. S.		22 km from Penticton
Resolute		31. 8S, 69. 8W		H = 20 28 08
eP	12 28 31	Central Chile-		Mag 1. 2
Shawinigan Falls		Argentina border		Penticton
eP	12 30 00	H = 02 32 28. 2		eP ₁ 20 28 11. 5
Victoria		h = 147 km		eS ₁ 20 28 14. 2
eP	12 24 10	Halifax		D = 22 km
		iP	02 44 14 d	
		Shawinigan Falls		APRIL 17
APRIL 16		eP	02 44 22	U. S. C. G. S.
47. 4°N, 120. 0°W				20. 8S, 68. 5W
Near Wenatchie				Chile-Bolivia border
Washington, U. S. A.		APRIL 17		H = 20 35 15. 4
H = 15 35 02		Resolute		h = 200 km
Mag 3. 1		eP	13 02 04?	Penticton
Alberni				eP 20 47 24
eP _n	15 36 01. 8	APRIL 17		Resolute
D = 434 km		U. S. C. G. S.		eP 20 48 28?
Penticton		29. 6N, 141. 9E		Shawinigan Falls
eP _n	15 35 29. 6	South of Honshu,		eP 20 46 01
eS _n	15 35 54. 0	Japan		
D = 225 km		H = 13 08 10. 8		APRIL 17
Victoria		h = 141 km		U. S. C. G. S.
eP _n	15 35 41. 8	Resolute		21. 3S, 178. 6W
eS _n	15 36 11. 3	eP	13 19 09	Tonga Islands region
D = 271 km				H = 20 48 12. 5
				h = 549 km
APRIL 16		APRIL 17		Penticton
Canadian Arctic		U. S. C. G. S.		eP 21 00 06
H = 20 42 45. 2		3. 9N, 31. 5W		
Mag 2. 5		Mid-Atlantic		APRIL 18
Resolute		Ocean		Resolute
iP ₁	20 42 57. 5	H = 16 21 10. 2		eP 01 52 22
iS ₁	20 43 05. 2	h = 25 km		
D = 94 km		Resolute		
		eP	16 33 16	
APRIL 16		APRIL 17		APRIL 18
U. S. C. G. S.		U. S. C. G. S.		U. S. C. G. S.
3. 4S, 135. 6E		3. 9N, 31. 5W		33. 0S, 179. 6W
Near coast of		Mid-Atlantic		Kermadec Islands
New Guinea		Ocean		H = 04 10 36. 4
H = 23 12 52. 2		H = 16 21 10. 2		h = 25 km
h = 64 km		Resolute		Resolute
Resolute		eP	18 15 39?	eP' 04 29 29
eP	23 26 46 c			

SEISMOLOGICAL BULLETIN - 1961

APRIL 18 U. S. C. G. S. 13. 1N, 146. 8E Mariana Islands H = 04 14 13. 0 h = 38 km Resolute eP 04 26 46	APRIL 19 Resolute eP 01 49 24	Shawinigan Falls eP 18 24 53 Victoria eP 18 21 59
APRIL 18 Resolute eP? 08 08 12	APRIL 19 Resolute eP 05 12 53	APRIL 19 U. S. C. G. S. 44. 6N, 150. 2E Kurile Islands H = 20 19 46. 4 h = 27 km Resolute iP 20 29 07 c? eS 20 36 36?
APRIL 18 U. S. C. G. S. 44. 6N, 150. 1E Kurile Islands H = 08 26 54. 8 h = 25 km Resolute iP 08 36 15	APRIL 19 Resolute eP 16 11 00	Shawinigan Falls eP 20 32 05
APRIL 18 Resolute eP 08 47 46?	APRIL 19 U. S. C. G. S. 44. 2N, 148. 0E Kurile Islands H = 16 12 28. 7 h = 51 km Ottawa iP 16 24 50 d Penticton eP 16 22 29	APRIL 19 U. S. C. G. S. 44. 9N, 149. 5E Kurile Islands H = 22 07 51. 2 h = 34 km Resolute iP 22 17 08
APRIL 18 Resolute eP 12 22 34	APRIL 19 Resolute eP 16 21 53 c Shawinigan Falls eP 16 24 51 Victoria eP 16 22 20	APRIL 19 Resolute eP 23 39 21?
APRIL 18 Resolute eP? 18 24 28	APRIL 19 U. S. C. G. S. 55. 1N, 163. 6E Kamchatka H = 18 13 51. 8 h = 21 km Ottawa eP 18 24 51	APRIL 20 Resolute eP 05 20 18
APRIL 18 Resolute eP 19 44 16?	APRIL 19 U. S. C. G. S. 55. 1N, 163. 6E Kamchatka H = 18 13 51. 8 h = 21 km Ottawa eP 18 24 51	APRIL 20 U. S. C. G. S. 50. 0N, 155. 4E Kurile Islands H = 05 44 34. 7 h = 71 km Resolute eP 05 53 04
APRIL 19 Resolute eP 00 16 27?	APRIL 19 Resolute eP 18 21 33 eS? 18 27 43?	

DOMINION OBSERVATORIES

APRIL 20 96 km from Victoria H = 12 22 04 Mag 2.3	APRIL 20 Resolute eP 14 31 07	Shawinigan Falls eP 19 42 81
Alberni eP _n 12 22 35.6 eS _n 12 23 01.6 D = 208 km	APRIL 20 U. S. C. G. S. 32.9S, 178.8W Kermadec Islands region H = 19 19 29.7 h = 58 km Resolute eP' 19 38 11	APRIL 21 U. S. C. G. S. 47.7N, 154.6E Kurile Islands H = 20 10 38.3 h = 27 km Halifax eP 20 23 00 Penticton eP 20 19 59 Resolute iP 20 19 29 d PP 20 21 32? eS 20 26 36 Shawinigan Falls iP 20 22 33 d Victoria eP 20 19 46
APRIL 20 45°00'N, 74°47'W Between Cornwall, Ont., and Massena, N. Y. H = 13 12 59.7 Mag 2.0	APRIL 20 Victoria eP 21 15 17	
Montreal iP ₁ 13 13 16.9 i 13 13 27.2 iS ₁ 13 13 30.0 D = 107.5 km	APRIL 20 U. S. C. G. S. 15.2S, 173.7W South of Samoa Islands H = 21 39 07.0 h = 25 km Mag 6 Resolute eP 21 53 00	APRIL 21 Alberni eP 20 30 15 Resolute eP 20 35 49 Victoria eP 20 33 12
Ottawa iP ₁ 13 13 13.4 iS ₁ 13 13 23.9 D = 86.2 km		
APRIL 20 U. S. C. G. S. 52.5N, 171.9E Near Islands H = 13 19 33.3 h = 25 km Resolute eP 13 27 19	APRIL 21 Resolute eP 00 25 02?	APRIL 21 U. S. C. G. S. 51.7N, 173.9W Andreanof Islands H = 21 26 42.1 h = 36 km Mag 5 1/2 Halifax eP 21 37 35 Ottawa eP 21 36 52 Penticton eP 21 33 25 Resolute iP 21 34 02 Shawinigan Falls eP 21 36 56
APRIL 20 U. S. C. G. S. 54.7N, 159.6E Kamchatka H = 14 15 27.7 h = 25 km Resolute eP 14 23 20	APRIL 21 U. S. C. G. S. 48.1N, 154.6E Kurile Islands H = 19 30 36.9 h = 23 km Resolute iP 19 39 26 c?	

SEISMOLOGICAL BULLETIN - 1961

APRIL 22 Resolute eP? 02 10 36	APRIL 23 Canadian Arctic H = 07 25 16.2 Mag 0.9 Resolute iP ₁ 07 25 22.5 iS ₁ 07 25 27.3 D = 39.2 km	APRIL 23 Resolute eP 13 31 59
APRIL 22 49.0°N, 119.7°W Southwest of Penticton H = 16 03 49 Mag 3.3 Alberni eP 16 04 49.8 D = 391 km Penticton iP ₁ 16 03 (52.8) D = 25 km Victoria eP _n 16 04 36.2 eS _n 16 05 10.4 D = 333 km	APRIL 23 U. S. C. G. S. 44.6N, 150.2E Kurile Islands H = 09 01 41.8 h = 44 km Mag 6 1/4 Alberni eP 09 11 14 Banff eP 09 11 41 Halifax iP 09 14 22 Ottawa eP 09 13 56 Penticton eP 09 11 33 Resolute iP 09 10 59 c iS 09 18 28 Shawinigan Falls eP 09 13 57 Victoria eP 09 11 23	APRIL 23 Resolute eP 14 33 06
APRIL 22 U. S. C. G. S. 2.8S, 80.8W Near coast of Ecuador H = 19 01 34.4 h = 30 km Ottawa eP 19 10 14 Penticton eP 19 11 54 Resolute eP 19 13 31 Shawinigan Falls eP 19 10 25	APRIL 23 Resolute eP 09 23 12	APRIL 23 Resolute eP 15 04 40
APRIL 23 U. S. C. G. S. 26.2N, 129.8E Ryukyu Islands H = 05 14 31.1 h = 110 km Penticton eP 05 26 47 Resolute iP 05 26 07 d eS 05 35 44 Victoria eP 05 26 39	APRIL 23 U. S. C. G. S. 44.8N, 150.6E Kurile Islands H = 12 17 59.7 h = 78 km Resolute iP 12 27 13 c?	APRIL 23 Resolute eP 16 41 33
		APRIL 23 U. S. C. G. S. 44.5N, 150.1E Kurile Islands H = 16 51 03.6 h = 76 km Resolute iP 17 00 19 c eS 17 07 48
		APRIL 23 U. S. C. G. S. 51.9N, 170.9W Fox Islands H = 20 43 08.7 h = 36 km Resolute eP 20 50 21

DOMINION OBSERVATORIES

APRIL 23
 U. S. C. G. S.
 28. 7N, 140. 5E
 Bonin Islands
 H = 22 04 18. 6
 h = 581 km
 Resolute
 eP 22 14 41

APRIL 24
 Resolute
 eP 03 19 38

APRIL 24
 Resolute
 eP 04 51 10

APRIL 24
 U. S. C. G. S.
 52. 2N, 173. 1W
 Fox Islands
 H = 04 52 29. 3
 h = 57 km
 Resolute
 eP 04 59 41

APRIL 24
 Resolute
 eP? 05 05 38

APRIL 24
 Penticton
 eP 05 59 06

APRIL 24
 Resolute
 eP 08 33 09

APRIL 24
 Resolute
 eP 08 36 28

APRIL 24
 U. S. C. G. S.
 44. 5N, 150. 2E
 Kurile Islands
 H = 12 27 39. 5
 h = 76 km
 Resolute
 eP 12 36 55 c?

APRIL 24
 Resolute
 eP 12 43 04

APRIL 24
 Resolute
 eP 13 39 27

APRIL 24
 Resolute
 eP 18 11 21

APRIL 24
 Resolute
 eP 21 32 09

APRIL 25
 Resolute
 eP 00 24 22

APRIL 25
 Resolute
 eP 00 27 43

APRIL 25
 U. S. C. G. S.
 44. 6N, 150. 0E
 Kurile Islands
 H = 00 28 15. 4
 h = 72 km
 Resolute
 iP 00 37 31

APRIL 25
 U. S. C. G. S.
 14. 4N, 90. 1W
 Guatemala
 H = 01 09 16. 2
 h = 139 km
 Ottawa
 eP 01 15 42
 Resolute
 iP 01 19 11 c
 Shawinigan Falls
 eP 01 16 00 c

APRIL 25
 U. S. C. G. S.
 44. 5N, 150. 0E
 Kurile Islands
 H = 01 17 42. 7
 h = 78 km
 Resolute
 eP 01 26 56 c
 Shawinigan Falls
 eP 01 29 55

APRIL 25
 U. S. C. G. S.
 0. 7S, 124. 1E
 Northern Celebes
 region
 H = 02 31 44. 2
 h = 200 km
 Resolute
 eP? 02 45 22

APRIL 25
 Resolute
 eP 05 12 18

SEISMOLOGICAL BULLETIN - 1961

<p>APRIL 25 U. S. C. G. S. 32. 7S, 178. 5W Kermadec Islands region H = 11 16 41. 4 h = 45 km Mag 5 1/2 Resolute eP' 11 35 27</p>	<p>APRIL 26 U. S. C. G. S. 44. 6N, 149. 9E Kurile Islands H = 07 38 54. 1 h = 20 km Mag 6 Halifax eP 07 51 42. 5 Penticton eP 07 48 54 Resolute iP 07 48 16 c eS 07 55 47 Shawinigan Falls eP 07 51 14 Victoria eP 07 48 46</p>	<p>APRIL 26 Resolute eP 12 29 16</p> <p>APRIL 26 Resolute eP 12 48 23</p> <p>APRIL 26 Resolute eP 13 01 13</p> <p>APRIL 26 Resolute eP 13 33 41?</p>
<p>APRIL 25 Resolute eP 14 03 04</p>	<p>APRIL 26 48. 2°N, 124. 9°W Off west coast of Washington, U. S. A. H = 08 06 34 Mag 2. 7 Alberni eP₁ 08 06 52. 7 eS₁ 08 07 04. 2 D = 119 km Victoria eP₁ 08 06 53. 5 eS₁ 08 07 08. 5 D = 123 km</p>	<p>APRIL 26 U. S. C. G. S. 0. 2N, 124. 1E Northern Celebes H = 16 53 29. 4 h = 135 km Resolute eP 17 07 09 Shawinigan Falls eP' 17 12 29</p>
<p>APRIL 25 Resolute eP 21 01 21</p>	<p>APRIL 26 U. S. C. G. S. 27. 9N, 129. 3E Ryukyu Islands H = 23 40 34. 3 h = 25 km Resolute iP 23 52 09 c</p>	<p>APRIL 26 U. S. C. G. S. 44. 6N, 150. 1E Kurile Islands H = 19 32 34. 2 h = 51 km Resolute iP 19 41 51 c</p>
<p>APRIL 25 Resolute eP 21 29 13</p>	<p>APRIL 26 U. S. C. G. S. 25. 2N, 95. 4E India-Burma border H = 11 46 46. 8 h = 217 km Resolute eP 11 58 36</p>	<p>APRIL 26 U. S. C. G. S. 44. 6N, 150. 1E Kurile Islands H = 19 32 34. 2 h = 51 km Resolute iP 19 41 51 c</p>
<p>APRIL 25 Resolute eP 23 51 29</p>	<p>APRIL 26 U. S. C. G. S. 43. 6N, 151. 0E Kurile Islands H = 00 38 07. 4 h = 100 km Resolute eP 00 47 26</p>	<p>APRIL 27 Penticton eP 04 49 15</p> <p>APRIL 27 Resolute eP 05 39 29</p>

DOMINION OBSERVATORIES

<p>APRIL 27 Resolute eP 09 10 13?</p>	<p>APRIL 28 Resolute eP? 02 29 57</p>	<p>APRIL 29 U. S. C. G. S. 40. 6N, 127. 5W Off coast of California H = 09 19 28. 3 h = 26 km Mag 5 1/2 Halifax eP 09 27 55 Ottawa eP 09 26 44 Penticton eP 09 21 56 Resolute eP 09 26 41 d? Shawinigan Falls eP 09 26 59 Victoria eP 09 21 30</p>
<p>APRIL 27 Resolute eP 11 14 25?</p>	<p>APRIL 28 U. S. C. G. S. 21. 8S, 68. 0W Southern Bolivia H = 08 42 55. 9 h = 132 km Shawinigan Falls eP 08 53 49</p>	
<p>APRIL 27 Resolute eP 11 25 54</p>	<p>APRIL 28 Resolute eP 14 16 41</p>	
<p>APRIL 17 Resolute eP 17 57 41?</p>	<p>APRIL 28 Resolute iP 22 24 46 c?</p>	<p>APRIL 29 U. S. C. G. S. 71. 3N, 7. 4W Jan Mayen Island region H = 09 29 09. 5 h = 14 km Halifax eP 09 36 29 Resolute eP 09 34 22 c? eS 09 38 37 Shawinigan Falls eP 09 36 39</p>
<p>APRIL 27 U. S. C. G. S. 12. 9S, 75. 1W Peru H = 17 52 16. 5 h = 124 km Penticton eP 18 03 40 Resolute eP 18 04 58 Shawinigan Falls eP 18 02 10 Victoria eP 18 03 43</p>	<p>APRIL 29 U. S. C. G. S. 49. 8S, 126. 8E South of Western Australia H = 06 44 15. 6 h = 119 km Resolute eP' 07 03 56</p>	
<p>APRIL 27 Resolute eP 20 34 58</p>	<p>APRIL 29 Resolute eP 09 14 12</p>	<p>APRIL 29 U. S. C. G. S. 41. 8N, 104. 5E Outer Mongolia H = 10 45 39. 1 h = 25 km Resolute eP 10 56 08</p>
<p>APRIL 28 U. S. C. G. S. 36. 3N, 121. 6W California H = 01 02 52. 2 h = 41 km Mag 4 1/4 Resolute eP 01 10 31?</p>	<p>APRIL 29 Resolute eP 09 25 45</p>	

SEISMOLOGICAL BULLETIN - 1961

APRIL 29 Victoria eP 11 24 39	APRIL 30 U. S. C. G. S. 50.0N, 31.9W North Atlantic Ocean H = 07 33 53.5 h = 38 km Mag 5 1/2 Halifax eP 07 38 48 Ottawa eP 07 39 56 Penticton eP 07 43 04 Résolute iP 07 40 32 d i 07 43 13 eS 07 45 52 Shawinigan Falls eP 07 39 35 Victoria eP 07 43 20	APRIL 30 Victoria eP 11 24 58 APRIL 30 Penticton eP 14 16 23 Résolute eP 14 21 05 Victoria eP 14 15 56 APRIL 30 U. S. C. G. S. 15.3S, 174.4W Samoa Islands region H = 14 48 11.5 h = 25 km Penticton eP 15 00 25 Résolute eP 15 02 07? Victoria eP 15 00 10 APRIL 30 U. S. C. G. S. 40.7N, 127.2W Off coast of California H = 17 30 38.6 h = 44 km Penticton eP 17 33 04 Résolute eP 17 37 47 APRIL 30 Résolute eP 18 42 27 APRIL 30 Résolute eP 21 56 12
APRIL 29 Résolute eP 11 57 31		
APRIL 29 Résolute eP 16 24 43		
APRIL 29 Résolute eP 21 27 24?		
APRIL 30 U. S. C. G. S. 49.6S, 117.0E South of Western Australia H = 00 10 18.0 h = 25 km Résolute eP' 00 30 06 i 00 30 12	APRIL 30 Résolute eP 10 47 19 APRIL 30 U. S. C. G. S. 45.8N, 150.2E Kurile Islands H = 11 00 46.8 h = 100 km Résolute eP 11 09 54 c	
APRIL 30 Résolute eP 00 58 44		
APRIL 30 Penticton eP 04 47 46 Résolute eP 04 52 29	APRIL 30 U. S. C. G. S. 44.6N, 149.7E Kurile Islands H = 11 15 19.8 h = 70 km Penticton eP 11 25 10 Résolute eP 11 24 35 c eS 11 32 04	

DOMINION OBSERVATORIES

MAY 1
 U. S. C. G. S.
 36. 2N, 141. 1E
 Near coast of
 Honshu, Japan
 H = 00 42 16. 0
 h = 136 km
 Resolute
 eP 00 52 35

MAY 1
 U. S. C. G. S.
 40. 6N, 127. 6W
 Off coast of
 California
 H = 02 41 39. 4
 h = 32 km
 Penticton
 eP 02 44 12
 Resolute
 eP 02 48 52
 Victoria
 eP 02 43 41

MAY 1
 U. S. C. G. S.
 40. 5N, 127. 4W
 Off coast of
 California
 H = 02 50 48. 8
 h = 51 km
 Penticton
 eP 02 53 15
 Resolute
 eP 02 57 59
 Victoria
 eP 02 52 49

MAY 1
 U. S. C. G. S.
 40. 6N, 127. 5W
 Off coast of California
 H = 03 23 51. 3
 h = 25 km
 Penticton
 eP 03 26 20
 Resolute
 eP 03 31 02

MAY 1
 U. S. C. G. S.
 40. 7N, 127. 4W
 Off coast of
 California
 H = 07 21 26. 2
 h = 54 km
 Penticton
 eP 07 23 56
 Resolute
 eP 07 28 34
 Victoria
 eP 07 23 24

MAY 1
 U. S. C. G. S.
 45. 4N, 149. 6E
 Kurile Islands
 H = 07 45 09. 6
 h = 25 km
 Resolute
 eP 07 54 27

MAY 1
 Resolute
 eP 09 20 29

MAY 1
 Resolute
 eP? 10 14 33

MAY 1
 U. S. C. G. S.
 40. 6N, 127. 5W
 Off coast of
 California
 H = 12 19 05. 6
 h = 29 km
 Penticton
 eP 12 21 35
 Resolute
 eP 12 26 17
 Victoria
 eP 12 21 07

MAY 1
 U. S. C. G. S.
 40. 7N, 127. 3W
 Off coast of
 California
 H = 18 45 28. 9
 h = 69 km
 Resolute
 eP 18 52 36
 Victoria
 eP 18 47 26

MAY 1
 Resolute
 eP? 19 50 45

MAY 2
 U. S. C. G. S.
 40. 9N, 127. 3W
 Off coast of
 California
 H = 01 28 59. 1
 h = 29 km
 Resolute
 eP 01 36 07
 Victoria
 eP 01 30 55

MAY 2
 U. S. C. G. S.
 71. 2N, 6. 9W
 Jan Mayen Island
 H = 03 11 45. 7
 h = 22 km
 Resolute
 eP 03 17 04
 Shawinigan Falls
 eP 03 19 22

MAY 2
 48. 8N, 124. 7W
 Southwest of
 Vancouver Island, B. C.
 H = 05 37 27
 Mag 2. 4
 Alberni
 S-P = 6. 8 secs.
 D = 56 km

SEISMOLOGICAL BULLETIN - 1961

Penticton S-P = 44.5 secs. D = 364 km	MAY 2 Resolute eP? 21 08 15?	MAY 3 U. S. C. G. S. 40.6N, 127.6W Off coast of California H = 08 48 52.9 h = 25 km Resolute eP 08 56 06
Victoria eP ₁ 05 37 43.3 iS ₁ 05 37 55.5 D = 100 km	MAY 2 U. S. C. G. S. 40.8N, 127.0W Off coast of California H = 22 37 55.5 h = 22 km Resolute eP 22 45 04	MAY 3 U. S. C. G. S. 45.1N, 150.1E Kurile Islands H = 08 56 28.3 h = 20 km Resolute eP 09 05 46
MAY 2 Resolute eP 08 35 35?	MAY 2 U. S. C. G. S. 27.8N, 176.5W Kermadec Islands H = 22 44 44.3 h = 47 km Mag 6 3/4 Resolute eP' 23 03 22 Victoria eP 22 57 41	MAY 3 Victoria eP 09 50 57
MAY 2 U. S. C. G. S. 45.3N, 148.8E Kurile Islands H = 09 57 34.0 h = 25 km Resolute eP 10 06 52	MAY 3 U. S. C. G. S. 1.0N, 26.4W Atlantic Ocean H = 00 26 17.0 h = 25 km Resolute iP 00 38 46 Shawinigan Falls eP 00 36 31	MAY 3 U. S. C. G. S. 51.7N, 168.3W Fox Islands H = 12 16 46.7 h = 47 km Resolute eP 12 23 53
MAY 2 U. S. C. G. S. 40.7N, 127.2W Off coast of California H = 10 10 32.3 h = 36 km Resolute eP 10 17 40	MAY 3 Resolute eP 04 32 21	MAY 3 U. S. C. G. S. 18.4N, 122.2E Philippine Islands H = 13 10 04.0 h = 25 km Resolute eP 13 22 36 c
MAY 2 U. S. C. G. S. 44.3N, 149.5E Kurile Islands H = 11 17 59.7 h = 25 km Resolute eP 11 27 23		

DOMINION OBSERVATORIES

MAY 3 U. S. C. G. S. 17.7N, 103.1W Near coast of Mexico H = 14 03 03.5 h = 20 km Resolute eP 14 12 51 Shawinigan Falls eP 14 10 25	MAY 4 Shawinigan Falls eP 07 07 37	MAY 5 Resolute eP 11 58 48 c?
MAY 4 Victoria eP 00 38 25	MAY 4 Resolute eP 13 05 47	MAY 5 Resolute eP 12 35 31
MAY 4 Resolute eP 01 20 45	MAY 4 Resolute eP 15 34 24	MAY 5 U. S. C. G. S. 40.5N, 127.1W Off coast of California H = 13 07 53.3 h = 36 km Resolute eP 13 14 59 ? Victoria eP 13 09 55
MAY 4 U. S. C. G. S. 40.6N, 127.1W Off coast of California H = 02 17 34.0 h = 25 km Penticton eP 02 20 02 Resolute eP 02 24 42 Victoria eP 02 19 33	MAY 4 U. S. C. G. S. 5.1S, 81.0W Near coast of Peru H = 20 20 36.5 h = 49 km Resolute eP 20 32 44?	MAY 5 U. S. C. G. S. 27.8S, 176.1W Kermadec Islands Region H = 13 43 21.1 h = 84 km Mag 6 1/4 Resolute eP' 14 01 55? eS? 14 10 44
MAY 4 Resolute eP 06 56 57	MAY 4 Resolute eP 20 58 48	MAY 5 Resolute iP 20 38 17
MAY 4 U. S. C. G. S. 17.7N, 46.4W Atlantic Ocean H = 07 00 32.9 h = 19 km Resolute eP 07 11 00	MAY 4 U. S. C. G. S. 40.6N, 127.5W Off coast of California H = 20 59 08.8 h = 67 km Resolute iP 21 06 16	MAY 6 Resolute eP 07 53 52?

SEISMOLOGICAL BULLETIN - 1961

MAY 6
 U. S. C. G. S.
 37.4N, 11.2E
 Mediterranean Sea
 H = 16 04 33.1
 h = 30 km
 Halifax
 iP 16 14 04.5d
 Penticton
 eP 16 17 02
 Resolute
 eP 16 14 28
 Victoria
 eP 16 17 11

MAY 6
 U. S. C. G. S.
 1.2S, 15.5W
 Atlantic Ocean
 H = 19 38 04.6
 h = 24 km
 Resolute
 eP 19 50 59?
 eS? 20 01 54

MAY 6
 U. S. C. G. S.
 6.3N, 126.3E
 Near coast of
 Mindanao,
 Philippine Islands
 H = 22 32 49.7
 h = 110 km
 Resolute
 eP 22 46 07
 Shawinigan Falls
 eP' 22 51 44

MAY 6
 U. S. C. G. S.
 17.2S, 167.9E
 New Hebrides
 H = 23 13 29.5
 h = 96 km
 Resolute
 eP' 23 31 48?
 eS? 23 41 40

Shawinigan Falls
 eP' 23 32 25
 Victoria
 eP 23 26 20

MAY 6
 U. S. C. G. S.
 51.5S, 161.3E
 Macquarie Island
 region
 H = 23 40 54.7
 h = 21 km
 Shawinigan Falls
 eP' 24 00 36

MAY 7
 U. S. C. G. S.
 6.1S, 154.4E
 Solomon Islands region
 H = 00 25 40.8
 h = 123 km
 Penticton
 eP 00 38 40
 Resolute
 eP 00 39 21?
 Shawinigan Falls
 eP' 00 44 28

MAY 7
 Resolute
 eP 00 55 31

MAY 7
 U. S. C. G. S.
 44.3N, 149.4E
 Kurile Islands
 H = 00 59 06.3
 h = 37 km
 Resolute
 eP 01 08 29

MAY 7
 U. S. C. G. S.
 8.3N, 38.0W
 Atlantic Ocean
 H = 01 57 02.4
 h = 25 km
 Resolute
 eP 02 08 36
 Shawinigan Falls
 eP 02 05 46

MAY 7
 U. S. C. G. S.
 8.2N, 38.1W
 Atlantic Ocean
 H = 02 43 58.5
 h = 46 km
 Resolute
 eP 02 55 31
 Shawinigan Falls
 eP 02 52 45

MAY 7
 Resolute
 eP 04 43 30

MAY 7
 Penticton
 eP 04 49 05

MAY 7
 U. S. C. G. S.
 8.6S, 111.4E
 Near coast of Java
 H = 04 32 14.5
 h = 113 km
 Halifax
 eP' 04 51 40 c
 Ottawa
 eP' 04 51 38
 Penticton
 eP' 04 51 02
 Resolute
 eP 04 46 46
 e 04 50 42 c?
 Shawinigan Falls
 eP' 04 51 35

DOMINION OBSERVATORIES

MAY 7	MAY 7	MAY 7
U. S. C. G. S.	U. S. C. G. S.	U. S. C. G. S.
40. 6N, 127. 0W	35. 2N, 134. 5E	56. 4N, 155. 8W
Off coast of	Honshu, Japan	Near Kodiak Island,
California	H = 12 14 15. 5	H = 21 58 44. 1
H = 06 03 03. 3	h = 25 km	h = 25 km
h = 32 km	Resolute	Resolute
Penticton	eP 12 25 02	eP 22 04 50?
eP 06 05 28		
Resolute		
eP 06 10 11	MAY 7	MAY 8
Victoria	Resolute	U. S. C. G. S.
eP 06 05 02	eP 12 30 44	31. 3S, 67. 4W
		Argentina
		H = 01 54 17. 1
		h = 84 km
MAY 7	MAY 7	Shawinigan Falls
Victoria	U. S. C. G. S.	eP 02 06 13
eP 07 48 51	16. 0N, 46. 9W	
	Atlantic Ocean	
	H = 13 22 04. 8	
	h = 39 km	
MAY 7	Shawinigan Falls	MAY 8
U. S. C. G. S.	eP 13 29 20 d	Resolute
5. 8N, 126. 8E		iP 10 02 42
Off coast of		
Mindanao,		
Philippine Islands	MAY 7	MAY 8
H = 10 22 43. 7	Resolute	Resolute
h = 89 km	eP 15 33 38	eP 10 36 52
Halifax		
eP' 10 41 47 c (?)		
Ottawa	MAY 7	MAY 8
eP' 10 41 38	Resolute	Resolute
Penticton	eP 15 46 02	iP 12 50 50
eP 10 36 27		
Resolute		
eP 10 36 03	MAY 7	MAY 8
Shawinigan Falls	U. S. C. G. S.	Resolute
eP' 10 41 39	40. 4N, 127. 2W	iP 14 34 08
	Off coast of	
	California	
	H = 16 19 05. 9	MAY 8
	h = 31 km	U. S. C. G. S.
MAY 7	Penticton	10. 8S, 75. 1W
Resolute	eP 16 21 35	Peru
eP 10 52 07?	Resolute	H = 18 32 03. 5
	eP 16 26 16	h = 60 km
		Resolute
		eP 18 44 37

SEISMOLOGICAL BULLETIN - 1961

- MAY 8
U. S. C. G. S.
24.3S, 69.7W
Northern Chile
H = 19 23 35.4
h = 48 km
Mag 5 1/2
Halifax
eP 19 34 42.5 c
Ottawa
eP 19 34 46
Resolute
eP 19 37 22?
Shawinigan Falls
eP 19 34 53 c
- MAY 9
Victoria
eP 00 00 20
- MAY 9
Resolute
eP 00 05 40
- MAY 9
Resolute
eP 11 05 09
- MAY 9
U. S. C. G. S.
40.8N, 127.2W
Off coast of
California
H = 12 06 28.5
Resolute
eP 12 13 35
- MAY 9
Canadian Arctic
H = 13 04 00.6
Mag 1.6
Resolute
iP₁ 13 04 22.6
iS₁ 13 04 39.3
D = 137 km
- MAY 9
Resolute
eP 17 40 39?
- MAY 9
H = 19 30 51
Mag 1.6
Penticton
eP_n 19 31 14.2
eS_n 19 31 31.8
D = 144 km
- MAY 10
Resolute
eP? 02 00 34?
- MAY 10
Resolute
eP 02 51 52?
- MAY 10
U. S. C. G. S.
15.8S, 172.3W
Samoa Islands region
H = 10 05 13.7
h = 52 km
Victoria
eP 10 17 08 d
- MAY 11
U. S. C. G. S.
8.4S, 112.5E
Near coast of Java
H = 00 51 24.2
h = 39 km
Resolute
eP' 01 09 58
Shawinigan Falls
eP' 01 10 52
- MAY 11
U. S. C. G. S.
40.9N, 126.8W
Off coast of
California
H = 04 59 33.5
h = 61 km
Resolute
eP 05 06 37
- MAY 11
U. S. C. G. S.
19.1S, 178.0W
Fiji Islands region
H = 05 26 36.2
h = 486 km
Victoria
eP 05 38 14
- MAY 11
U. S. C. G. S.
37.2S, 73.6W
Near coast of Chile
H = 08 38 27.1
h = 47 km
Halifax
iP 08 50 48 d
Shawinigan Falls
eP 08 50 54 c
- MAY 11
Resolute
eP 13 06 34?
- MAY 11
U. S. C. G. S.
43.8N, 148.6E
Off coast of
Hokkaido, Japan
H = 13 25 42.4
h = 43 km
Resolute
iP 13 35 08

DOMINION OBSERVATORIES

MAY 11
U. S. C. G. S.
44. 1N, 149. 1E
Kurile Islands
H = 13 36 36.2
h = 57 km
Resolute
iP 13 45 58

MAY 11
U. S. C. G. S.
40. 7N, 127. 3W
Off coast of
California
H = 18 48 50.7
h = 43 km
Victoria
eP 18 50 49
Resolute
eP 18 55 59

MAY 11
Victoria
eP 23 46 30

MAY 12
Resolute
eP 02 21 34

MAY 12
Resolute
eP 06 38 04

MAY 12
U. S. C. G. S.
23. 9N, 125. 8E
Ryukyu Islands
H = 06 47 21.2
h = 100 km
Resolute
eP 06 59 15

MAY 12
U. S. C. G. S.
11. 5N, 141. 5E
Mariana Islands
region
H = 16 47 41.7
h = 136 km
Resolute
eP 17 00 19

MAY 12
U. S. C. G. S.
40. 6N, 127. 4W
Off coast of
California
H = 17 36 59.9
h = 27 km
Resolute
eP 17 44 11

MAY 12
Resolute
eP 21 57 13

MAY 13
U. S. C. G. S.
40. 9N, 127. 6W
Off coast of
California
H = 05 43 16.1
h = 25 km
Resolute
eP? 05 50 30

MAY 13
U. S. C. G. S.
40. 6N, 127. 6W
Off coast of
California
H = 08 47 36.7
h = 43 km
Resolute
eP 08 54 47
Victoria
eP 08 49 38

MAY 13
U. S. C. G. S. .
11. 8N, 88. 1W
Off coast of
Nicaragua
H = 12 45 04.2
h = 74 km
Resolute
iP 12 55 27 c
Shawinigan Falls
eP 12 52 13

MAY 13
U. S. C. G. S.
27. 9S, 176. 0W
Kermadec Islands
region
H = 14 18 42.4
h = 25 km
Resolute
eP' 14 37 21?

MAY 13
U. S. C. G. S.
17. 5S, 178. 8W
Fiji Islands region
H = 14 52 55.3
h = 556 km
Resolute
eP 15 06 08?
e 15 10 18?
Shawinigan Falls
eP' 15 10 35
Victoria
eP 15 04 22 c

MAY 13
U. S. C. G. S.
43. 4N, 147. 8E
Off coast of
Hokkaido Japan
H = 15 49 29.6
h = 31 km
Resolute
eP 15 59 01
Shawinigan Falls
eP 16 01 58

SEISMOLOGICAL BULLETIN - 1961

Victoria eP 15 59 26	MAY 14 U.S.C.G.S. 67.7N, 18.4W North of Iceland H = 15 38 07.5 h = 23 km Resolute eP 15 43 22 eS 15 47 43?	MAY 16 H = 03 28 48 Mag 1.8 Victoria eP ₁ 03 29 02.2 eS ₁ 03 29 13.1 D = 90 km
MAY 13 Resolute eP 16 17 36		
MAY 13 Resolute eP? 17 32 47	MAY 14 U.S.C.G.S. 40.8N, 127.4W Off coast of California H = 19 31 34.4 h = 45 km Resolute eP 19 38 42 eS 19 44 33? Victoria eP 19 33 32	MAY 16 U.S.C.G.S. 51.8N, 171.3W Fox Islands H = 03 32 11.7 h = 38 km Resolute eP 03 39 22 e 03 41 43? Shawinigan Falls eP 03 42 17
MAY 13 U.S.C.G.S. 25.3N, 122.6E Off coast of Formosa H = 19 19 37.3 h = 261 km Resolute iP 19 31 06 d Victoria eP 19 31 52		
MAY 13 Resolute eP? 23 13 08?	MAY 15 U.S.C.G.S. 20.0S, 177.2W Tonga Islands region H = 20 53 05.3 h = 89 km Penticton eP 21 05 39 Resolute eP' 21 11 17 Victoria eP 21 05 26	MAY 16 U.S.C.G.S. 52.0N, 171.5W Fox Islands H = 03 52 43.7 h = 62 km Resolute eP 03 59 51
MAY 14 U.S.C.G.S. 39.6S, 176.8E New Zealand H = 00 12 33.6 h = 40 km Resolute eP'? 00 31 38		MAY 16 U.S.C.G.S. 16.1N, 87.3W Near coast of Honduras H = 17 57 20.8 h = 117 km Resolute eP 18 07 09
MAY 14 U.S.C.G.S. 67.7N, 18.4W North of Iceland H = 15 08 04.2 h = 47 km Resolute eP 15 13 16	MAY 15 Victoria eP 21 57 17	

DOMINION OBSERVATORIES

MAY 16
 U. S. C. G. S.
 30. 0N, 132. 0E
 Ryukyu Islands
 H = 21 45 24. 0
 h = 25 km
 Mag 5 1/4
 Resolute
 iP 21 56 42 d
 eS 22 05 56
 S_cS 22 06 48?

MAY 17
 Resolute
 eP 02 08 46

MAY 17
 U. S. C. G. S.
 40. 5N, 127. 4W
 Off coast of
 California
 H = 03 21 52. 4
 h = 48 km
 Resolute
 eP 03 29 03

MAY 17
 U. S. C. G. S.
 49. 0N, 155. 6W
 Kurile Islands
 H = 08 34 03. 2
 h = 36 km
 Resolute
 eP 08 42 42 c

MAY 17
 U. S. C. G. S.
 52. 0N, 173. 9E
 Near Islands
 H = 19 29 19. 3
 h = 21 km
 Mag 6
 Banff
 eP 19 37 15
 Halifax
 eP 19 40 43 d

Ottawa
 eP 19 40 07
 Resolute
 eP 19 37 03
 i 19 38 45
 eS 19 43 13?
 Shawinigan Falls
 eP 19 40 09
 Victoria
 eP 19 36 49

MAY 18
 Resolute
 eP? 03 17 49

MAY 18
 Resolute
 eP? 04 45 24

MAY 18
 Victoria
 eP 06 46 20

MAY 18
 U. S. C. G. S.
 40. 5N, 127. 5W
 Off coast of
 California
 H = 09 37 54. 8
 h = 36 km
 Resolute
 eP 09 44 46?

MAY 18
 U. S. C. G. S.
 4. 6N, 125. 7E
 Near coast of
 Mindanao,
 Philippine Islands
 H = 20 37 57. 0
 h = 126 km
 Resolute
 eP 20 51 19

MAY 18
 U. S. C. G. S.
 3. 3S, 103. 3W
 Southwest of
 Galapagos Islands
 H = 22 08 00. 4
 h = 60 km
 Resolute
 eP 22 19 55?

MAY 18
 Victoria
 eP 23 59 28

MAY 19
 U. S. C. G. S.
 3. 8N, 125. 7E
 Off coast of
 Mindanao,
 Philippine Islands
 H = 00 50 20. 8
 h = 77 km
 Resolute
 eP 01 03 52

MAY 19
 U. S. C. G. S.
 15. 8S, 172. 8W
 Tonga Islands
 H = 03 42 31. 1
 h = 25 km
 Victoria
 eP 03 54 31

MAY 19
 U. S. C. G. S.
 11. 3N, 88. 3W
 Off coast of
 Nicaragua
 H = 09 25 26. 6
 h = 34 km
 Banff
 eP 09 33 45 c
 Halifax
 iP 09 32 57 d

SEISMOLOGICAL BULLETIN - 1961

Ottawa eP 09 32 22	MAY 20 U. S. C. G. S. 44. 0N, 148. 8E	MAY 21 Canadian Arctic H = 11 56 01. 5 Mag 1. 1
Resolute iP 09 35 55 c	Kurile Islands H = 11 51 01. 2 h = 59 km	Resolute iP ₁ 11 56 07. 0 iS ₁ 11 56 11. 2 D = 34. 4 km
Shawinigan Falls eP 09 32 38	Resolute eP 12 00 23	
Victoria eP 09 33 59		
MAY 19 Banff eP 14 50 18	MAY 20 Resolute eP 22 50 46	MAY 21 U. S. C. G. S. 40. 5N, 127. 5W Off coast of California H = 15 15 14. 7 h = 25 km
Resolute eP 14 54 52?	MAY 21 Resolute eP 02 27 58?	Resolute eP 15 22 28
Victoria eP 14 49 44		
MAY 19 U. S. C. G. S. 24. 1N, 123. 4E	MAY 21 Resolute eP? 03 48 22	MAY 21 U. S. C. G. S. 3. 1S, 80. 9W Near coast of Ecuador H = 17 41 28. 2 h = 27 km
Ryukyu Islands H = 16 37 28. 9 h = 71 km	MAY 21 Resolute iP 05 34 00 c	Resolute eP 17 53 26? Shawinigan Falls eP 17 50 22
Resolute iP 16 49 25 c		
MAY 19 Canadian Arctic H = 22 00 21 Mag 4. 4	MAY 21 Resolute eP? 06 19 39	MAY 21 Resolute eP 19 26 44
Resolute iP _n 22 02 41 d eS _n 22 04 22 L _g 22 05 23 D = 1100 km	MAY 21 Resolute eP? 08 05 41	
MAY 20 Resolute eP 00 51 16	MAY 21 U. S. C. G. S. 23. 7N, 123. 5E Ryukyu Islands H = 10 13 47. 7 h = 63 km	MAY 21 U. S. C. G. S. 34. 3S, 150. 4E Australia H = 21 40 03. 2 h = 27 km Halifax iP' 22 00 04. 5 c Ottawa eP' 21 59 35 Resolute eP' 21 59 11? Shawinigan Falls eP' 21 59 41
	Resolute eP 10 25 45 c?	

DOMINION OBSERVATORIES

MAY 22	MAY 22	MAY 22
U. S. C. G. S.	U. S. C. G. S.	Canadian Arctic
25. 0S, 67. 3W	21. 3S, 174. 4W	H = 21 05 30. 0
Argentina	Tonga Islands	h = 9 km
H = 01 19 05. 1	H = 13 44 35. 8	Mag 2. 6
h = 273 km	h = 97 km	Resolute
Shawinigan Falls	Mag 6	P _n 21 06 04. 5
eP 01 30 03	Alberni	P ₁ 21 06 06. 7
	eP 13 56 54	i ¹ 21 06 24. 5
	Banff	S _n 21 06 30. 0
	eP 13 57 22	i 21 06 33. 5
MAY 22	Penticton	S ₁ 21 06 34. 5
Washington, U. S. A.	eP 13 57 07	D = 228 km
H = 01 57 55	Resolute	
Mag 2. 6	eP' 14 03 03? 7	
Penticton	eS 14 10 53? 7	MAY 22
eP _n 01 58 21. 7	Victoria	U. S. C. G. S.
iS _n 01 58 40. 9	eP 13 56 54	22. 6S, 177. 0W
D = 164 km		Tonga Islands region
Victoria		H = 23 47 03. 2
eP _n 01 58 30. 5		h = 526 km
eS _n 01 59 00. 0	MAY 22	Banff
D = 233 km	Resolute	eP 23 59 15
	eP 14 42 33	Victoria
		eP 23 58 49
MAY 22		
Resolute	MAY 22	
eP? 03 03 32	U. S. C. G. S.	
	22. 8S, 176. 1W	MAY 23
MAY 22	Tonga Islands	U. S. C. G. S.
U. S. C. G. S.	H = 17 32 21. 6	36. 4N, 28. 3E
49. 0N, 155. 6E	h = 35 km	Dodecanese Islands
Kurile Islands	Mag 6 1/2	H = 02 45 16. 0
H = 08 57 15. 0	Alberni	h = 49 km
h = 32 km	eP 17 44 57	Mag 6 1/4
Banff	Banff	Banff
eP 09 06 36	eP 17 45 23	eP 02 57 58 c
Resolute	Halifax	Halifax
iP 09 05 53	iP' 17 51 14 d	eP 02 56 03. 5
Shawinigan Falls	e 18 01 16 c	Ottawa
eP 09 09 00	Penticton	eP 02 56 47
Victoria	iP 17 45 00	Resolute
eP 09 06 15	Resolute	eP 02 55 39
	eP 17 46 50? 7	eS 03 04 03 ? 7
	e 17 50 50? 7	Shawinigan Falls
	Shawinigan Falls	eP 02 56 32 c
	eP' 17 51 02	Victoria
	Victoria	eP 02 58 19
	eP 17 44 58 c	

SEISMOLOGICAL BULLETIN - 1961

MAY 23		MAY 23		MAY 23
U. S. C. G. S.		Canadian Arctic		Resolute
9.8N, 84.0W		H = 12 02 28		eP 17 09 167
Costa Rica		Mag 4.5		
H = 03 40 26.1		Resolute		
h = 136 km		eP _n 12 04 02		MAY 24
Banff		iS _n 12 05 10		Resolute
eP 03 48 58		L _g 12 05 40		eP 13 06 55
Halifax		D = 725 km		
iP 03 48 00				
iP 03 50 28.5 c				
Ottawa		MAY 23		MAY 24
eP 03 47 20		Canadian Arctic		45.5N, 128.5W
Resolute		aftershock		Off coast of
eP 03 50 54		H = 12 45 04		Washington, U.S.A.
i 03 53 38		Mag 4.0		H = 13 34 46
Shawinigan Falls		Resolute		Mag 4.0
eP 03 47 34		eP _n 12 46 38		Alberni
Victoria		iS _n 12 47 46		eP _n 13 36 04.9
eP 03 49 15		L _g 12 48 20		eS _n 13 37 07.8
		D = 725 km		D = 511 km
				Penticton
				iP _n 13 36 24.6
				i 13 37 05.4
				D = 756 km
MAY 23		MAY 23		Resolute
Washington, U.S.A.		Resolute		eP 13 41 21
H = 03 49 31		eP 16 25 20		Victoria
Mag 2.7				eP _n 13 35 56.0
Alberni				eS _n 13 36 59.8
eP _n 03 50 00.3				D = 523 km
eS _n 03 50 22.3		MAY 23		
D = 188 km		U. S. C. G. S.		
Victoria		12.6N, 87.3W		
iP ₁ 03 49 45.9		Near coast of		
iS ₁ 03 49 57.9		Nicaragua		
D = 94 km		H = 16 44 59.4		MAY 25
		h = 138 km		U. S. C. G. S.
		Mag 6 1/2		27.2S, 71.3W
		Banff		Near coast of Chile
MAY 23		eP 16 53 03		H = 04 44 15.1
Resolute		Halifax		h = 46 km
eP 06 14 04		eP 16 52 08 c		Alberni
		Ottawa		e 05 00 02
		eP 16 51 35 c		Shawinigan Falls
MAY 23		Resolute		eP 04 55 46
Canadian Arctic		iP 16 55 09 c		Victoria
foreshock		eS 17 03 24		e 05 00 19
H = 11 30 11		Shawinigan Falls		
Mag 3.9		eP 16 51 52		
Resolute		Victoria		
eP _n 11 31 45		iP 16 53 17 c		
iS _n 11 32 53		e 16 53 47		
L _g 11 33 25				
D = 725 km				

DOMINION OBSERVATORIES

MAY 25	MAY 26	MAY 27
U. S. C. G. S.	46. 1N, 123. 0W	U. S. C. G. S.
31. 3N, 139. 9E	Near Longview	41. 0N, 142. 1E
South of Honshu	Washington, U. S. A.	Near coast of
Japan	H = 05 50 45	Honshu, Japan
H = 09 18 48. 4	Mag 3. 0	H = 07 18 12. 2
h = 171 km	Albarni	h = 156 km
Resolute	eP 05 51 39. 2	Banff
eP 09 29 35	D = 385 km	eP 07 28 47
Victoria	Penticton	Penticton
eP 09 29 54	eP _n 05 51 46. 1	eP 07 28 37
	iS _n 05 52 33. 1	Resolute
	D = 442 km	iP 07 27 55 c
	Victoria	i 07 28 12
	iP _n 05 51 24. 1	Shawinigan Falls
	iS _n 05 51 56. 1	eP 07 30 46
	D = 262 km	Victoria
		eP 07 28 28
MAY 25	MAY 25	MAY 27
Resolute	H = 06 27 57	Resolute
eP 19 17 01	Mag 2. 1	iP 10 33 12
Shawinigan Falls	Penticton	i 10 33 29
eP 19 20 11	iP ₁ 06 28 21. 7	
	iS ₁ 06 28 40. 2	
	D = 152 km	
MAY 25	MAY 26	MAY 27
Resolute	U. S. C. G. S.	Resolute
eP? 22 56 10	38. 4N, 142. 9E	eP? 13 27 03
	Near coast of	
	Honshu, Japan	
	H = 22 49 49. 4	
	h = 60 km	
MAY 26	Resolute	MAY 27
U. S. C. G. S.	eP 22 59 58 c?	U. S. C. G. S.
32. 7S, 109. 1W		15. 8N, 119. 2E
Easter Island region		Philippine Islands
H = 04 36 08. 5		H = 22 38 35. 5
h = 43 km		h = 92 km
Shawinigan Falls		Resolute
eP 04 48 46		eP 22 51 14
MAY 26	MAY 27	MAY 28
U. S. C. G. S.	U. S. C. G. S.	Resolute
15. 4N, 91. 9W	36. 8N, 70. 9E	iP 20 23 38 c
Western Guatemala	Hindu Kush	
H = 05 06 27. 0	H = 05 14 43. 7	
h = 123 km	h = 92 km	
Ottawa	Resolute	
eP 05 12 52 c	eP 05 25 37	
Resolute		
eP 05 16 17		
i 05 17 06		
Shawinigan Falls		
eP 05 13 10 c		
		MAY 29
		Resolute
		eP 00 05 04

SEISMOLOGICAL BULLETIN - 1961

MAY 29

U. S. C. G. S.
52. 1N, 166. 6W
Fox Islands
H = 00 22 55. 6
h = 67 km

Resolute
eP 00 29 51
Victoria
eP 00 28 40

MAY 29

U. S. C. G. S.
39. 0S, 73. 4W
Southern Chile
H = 07 28 11. 7
h = 13 km

Shawinigan Falls
eP 07 40 51

MAY 29

U. S. C. G. S.
27. 7N, 141. 7E
Bonin Islands
H = 10 29 27. 8
h = 25 km

Resolute
eP 10 40 48

MAY 29

U. S. C. G. S.
16. 2N, 122. 4E
Philippine Islands
H = 16 51 34. 8
h = 25 km

Resolute
eP 17 04 17

MAY 31

H = 11 38 42
Mag 2. 2
Victoria
iP₁ 11 38 57. 9
iS₁ 11 39 09. 7
D = 97 km

MAY 31

U. S. C. G. S.
29. 8N, 114. 0W
Gulf of California
H = 14 17 43. 8
h = 74 km

Mag 5 1/2
Alberni
eP 14 22 26
Banff
eP 14 22 29
Ottawa
eP 14 24 20
Penticton
eP 14 22 16
Resolute
eP 14 25 58?
eS 14 32 48?
Shawinigan Falls
eP 14 24 41
Victoria
eP 14 22 13

MAY 31

U. S. C. G. S.
48. 9N, 154. 5E
Kurile Islands
H = 14 39 20. 4
h = 50 km

Alberni
eP 14 48 15
Banff
eP 14 48 44
Halifax
iP 14 51 34 d
Ottawa
eP 14 51 06
Penticton
eP 14 48 37
Resolute
iP 14 48 01 c
Shawinigan Falls
iP 14 51 08 c
Victoria
eP 14 48 23

MAY 31

U. S. C. G. S.
5. 3S, 151. 6E
New Britain
H = 19 15 57. 0
h = 56 km

Banff
eP 19 29 21
Ottawa
eP' 19 34 48
Penticton
eP 19 29 06
Resolute
eP 19 29 44?
Shawinigan Falls
eP' 19 34 51
Victoria
eP 19 28 56

MAY 31

U. S. C. G. S.
12. 8N, 143. 5E
Mariana Islands
H = 21 02 09. 6
h = 138 km
Resolute
eP 21 14 35

JUNE 1

U. S. C. G. S.
55. 3N, 161. 7E
Near coast of
Kamchatka
H = 03 27 39. 3
h = 25 km
Resolute
eP 03 35 25

JUNE 1

Resolute
iP 06 07 54 c?

DOMINION OBSERVATORIES

JUNE 1

U. S. C. G. S.
44. 1N, 148. 2E
Kurile Islands
H = 07 58 21.5
h = 67 km
Resolute
eP 08 07 43

JUNE 1

U. S. C. G. S.
19. 5N, 69. 3W
Near coast of
Dominican Republic
H = 10 02 45.1
h = 53 km
Halifax
eP 10 08 13
Ottawa
eP 10 08 19
Resolute
eP 10 12 27
Shawinigan Falls
eP 10 08 27
Victoria
eP 10 11 51

JUNE 1

48. 6°N, 128. 1°W
Off coast of
Vancouver Island, B. C.
H = 16 26 07
Mag 3. 2
Alberni
S-P = 31. 3 secs
D = 256 km
Penticton
eP 16 27 32.6
D = 722 km
Victoria
eP_n 16 26 56.2
eS_n 16 26 39.1
D = 351 km

JUNE 1

48. 6°N, 128. 1°W
Off coast of
Vancouver Island, B. C.
H = 18 53 02
Mag 3. 2
Penticton
eP_n 18 54 27.7
D = 722 km
Victoria
eP 18 53 51.6
D = 351 km

JUNE 1

U. S. C. G. S.
10. 6N, 39. 3E
Ethiopia
H = 23 29 21.1
h = 51 km
Mag 6 1/2
Ottawa
eP 23 43 08
Resolute
eP 23 42 21
PP 23 46 05
eS 23 53 14?
Shawinigan Falls
eP 23 43 00

JUNE 2

U. S. C. G. S.
10. 3N, 39. 6E
Ethiopia
H = 00 08 59. 8
h = 64 km
Resolute
eP 00 21 59?
PP? 00 25 34?
Shawinigan Falls
eP 00 22 34

JUNE 2

Victoria
eP 01 21 23

JUNE 2

U. S. C. G. S.
9. 8N, 40. 0E
Ethiopia
H = 04 51 10. 4
h = 41 km
Halifax
eP 05 04 26
Ottawa
eP 05 04 59
Resolute
eP 05 04 16
PP 05 07 50
eS 05 15 16?
Shawinigan Falls
eP 05 04 49 c

JUNE 2

U. S. C. G. S.
10. 3N, 39. 6E
Ethiopia
H = 05 22 29. 1
h = 26 km
Resolute
eP 05 35 33?
PP? 05 39 08?
Shawinigan Falls
eP 05 36 07

JUNE 2

U. S. C. G. S.
10. 3N, 39. 8E
Ethiopia
H = 05 44 52. 4
h = 31 km
Resolute
eP 05 57 56?
PP? 06 01 29?
Shawinigan Falls
eP 05 58 30

JUNE 2

Resolute
eP? 06 31 22?

SEISMOLOGICAL BULLETIN - 1961

- JUNE 2
 U. S. C. G. S.
 10.3N, 40.0E
 Ethiopia
 H = 07 02 52.4
 h = 54 km
 Resolute
 eP 07 15 53?
 PP? 07 19 28?
- JUNE 2
 U. S. C. G. S.
 79.3N, 4.9E
 Svalbard region
 H = 11 06 41.3
 h = 25 km
 Resolute
 eP 11 11 13
- JUNE 2
 H = 13 56 56
 Mag 2.3
 Penticton
 eP_n 13 57 36.8
 eS_n 13 58 10.5
 D = 276 km
- JUNE 2
 Resolute
 eP 16 35 49?
- JUNE 2
 U. S. C. G. S.
 21.3N, 145.9E
 Mariana Islands
 H = 18 09 25.9
 h = 42 km
 Resolute
 eP 18 21 16
- JUNE 2
 U. S. C. G. S.
 2.9S, 79.9W
 Near coast of
 Ecuador
 H = 18 26 08.9
 h = 25 km
 Resolute
 eP? 18 38 07
- JUNE 2
 H = 19 56 38
 Mag 1.5
 Penticton
 eP₁ 19 57 02.9
 eS₁ 19 57 21.9
 D = 156 km
- JUNE 3
 U. S. C. G. S.
 56.1N, 164.8E
 Off coast of
 Kamchatka
 H = 01 13 25.4
 h = 29 km
 Banff
 eP 01 21 40
 Resolute
 eP 01 20 56
 eS 01 26 56?
- JUNE 3
 H = 08 20 46
 Mag 1.5
 Alberni
 eP₁ 08 21 06.1
 eS₁ 08 21 22.5
 D = 127 km
 Victoria
 iP₁ 08 20 49.9
 iS₁ 08 20 53.0
 D = 26 km
- JUNE 3
 H = 21 36 07
 Mag 2.3
 Alberni
 eP₁ 21 36 16.9
 eS₁ 21 36 24.2
 D = 60 km
- JUNE 4
 Resolute
 eP 04 40 49
- JUNE 4
 U. S. C. G. S.
 33.8N, 81.8E
 Tibet
 H = 07 33 05.4
 h = 46 km
 Mag 6 1/2
 Banff
 eP 07 46 20
 Halifax
 eP 07 46 31 c
 Ottawa
 eP 07 46 42
 Resolute
 iP 07 44 24 d
 PP? 07 47 05?
 PPP? 07 48 48?
 eS? 07 53 44?
 SS? 07 58 12?
 Shawinigan Falls
 eP 07 46 34 d
 Victoria
 eP 07 46 26
- JUNE 4
 U. S. C. G. S.
 34.2N, 82.2E
 Tibet
 H = 07 43 43.6
 h = 30 km
 Resolute
 eP 07 55 03
 Shawinigan Falls
 eP 07 57 14

DOMINION OBSERVATORIES

JUNE 4 U. S. C. G. S. 33. 6N, 82. 4E Tibet H = 13 51 26. 6 h = 40 km Resolute eP 14 02 49?	JUNE 5 U. S. C. G. S. 28. 3N, 54. 8E Southern Iran H = 03 31 01. 4 h = 81 km Resolute eP 03 42 41?	JUNE 6 Ottawa eP 21 57 57
JUNE 4 47. 8N, 123. 8W Olympic Mountains Washington U. S. A. H = 16 40 45 Mag 2. 9 Albani eP _n 16 41 14. 2 eS _n 16 41 36. 3 D = 184 km Victoria iP ₁ 16 40 59. 7 iS ₁ 16 41 10. 8 D = 91 km	JUNE 5 Resolute eP 12 02 17	JUNE 7 U. S. C. G. S. 45. 3N, 150. 8E Kurile Islands H = 05 03 10. 7 h = 61 km Resolute eP 05 12 22
JUNE 4 Resolute eP 16 54 08?	JUNE 5 H = 22 58 28 Mag 3. 7 Penticton eP 22 59 51. 3 eS _n 23 00 07. 8 D = 626 km	JUNE 7 U. S. C. G. S. 5. 4S, 11. 6W Ascension Island region H = 14 15 18. 9 h = 17 km Mag 5 1/4 Halifax iP 14 26 22 c Ottawa eP 14 27 09 Resolute eP 14 28 37 Shawinigan Falls eP 14 27 02
JUNE 4 Resolute eP 18 48 34?	JUNE 6 U. S. C. G. S. 17. 6N, 60. 9W Leeward Islands H = 00 33 38. 2 h = 50 km Ottawa eP 00 39 47 Shawinigan Falls eP 00 39 49	JUNE 8 Canadian Arctic H = 05 48 20. 4 Mag 1. 4 Resolute iP ₁ 05 48 33. 5 iS ₁ 05 48 43. 5 D = 82 km
JUNE 5 H = 01 03 43 Mag 2. 8 Penticton eP _n 01 04 32. 3 eS _n 01 05 15. 0 D = 349km	JUNE 6 Resolute eP 02 23 11?	JUNE 8 Resolute eP 19 03 38?
	JUNE 6 U. S. C. G. S. 43. 4N, 127. 7W Off coast of Oregon H = 03 46 08. 6 h = 25 km Penticton eP 03 48 13	

SEISMOLOGICAL BULLETIN - 1961

JUNE 8

Canadian Arctic
H = 22 04 06.0
Mag 0.8
Resolute
iP₁ 22 04 10.6
iS₁ 22 04 14.0
D = 28.7 km

JUNE 9

U. S. C. G. S.
34.5N, 73.8E
Northern India
H = 03 55 51.4
h = 110 km
Resolute
eP 04 07 00?

JUNE 9

U. S. C. G. S.
0.4N, 80.2W
Near coast of
Ecuador
H = 05 53 56.4
h = 15 km
Ottawa
eP 06 02 14

JUNE 9

U. S. C. G. S.
40.8N, 50.7E
Caspian Sea
H = 09 36 49.2
h = 17 km
Banff
eP 09 49 37
Halifax
iP 09 48 38 d
Ottawa
eP 09 49 07
Penticton
eP 09 49 48
Resolute
iP 09 47 13
Shawinigan Falls
eP 09 48 56

JUNE 9

U. S. C. G. S.
5.5N, 95.8E
Near coast of
Sumatra
H = 15 17 50.7
h = 100 km
Resolute
eP 15 31 32?

JUNE 9

U. S. C. G. S.
30.0N, 140.1E
South of Honshu
Japan
H = 15 43 03.1
h = 170 km
Resolute
eP 15 53 55
i 15 54 31

JUNE 9

H = 19 25 23
Mag 1.8
Penticton
eP_n 19 25 45.9
eS_n 19 26 03.0
D = 140 km

JUNE 10

U. S. C. G. S.
48.9N, 157.9E
Near coast of
Kamchatka
H = 05 53 00.6
h = 60 km
Resolute
eP 06 01 34

JUNE 10

Resolute
eP 08 22 01?

JUNE 10

U. S. C. G. S.
8.1N, 103.4W
South of Mexico
H = 08 52 01.1
h = 25 km
Mag 4 3/4
Banff
eP 09 00 08
Ottawa
eP 09 00 08
Penticton
eP 09 00 04
Resolute
eP 09 02 49?
i 09 11 42
Shawinigan Falls
eP 09 00 26
Victoria
eP 09 00 06

JUNE 10

U. S. C. G. S.
32.0S, 70.3W
Argentina
H = 11 44 49.8
h = 83 km
Shawinigan Falls
eP 11 56 48

JUNE 10

U. S. C. G. S.
24.1S, 112.1W
Easter Islands region
H = 20 31 50.9
h = 47 km
Mag 6
Ottawa
eP 20 43 43
Penticton
eP 20 43 26
Resolute
eP 20 45 36?
Shawinigan Falls
eP 20 43 55
Victoria
eP 20 43 20

DOMINION OBSERVATORIES

JUNE 10	JUNE 11	JUNE 11
H = 23 39 22	U. S. C. G. S.	Resolute
Mag 2.3	27.3N, 54.5E	eP 07 42 06?
Penticton	Iran	
eP ₁ 23 39 48.0	H = 05 30 05.9	
eS ₁ 23 40 08.1	h = 25 km	JUNE 11
D = 164 km	Ottawa	U. S. C. G. S.
	eP 05 43 30	28.0N, 54.6E
	Resolute	Iran
	eP 05 41 56	H = 12 31 26.8
JUNE 11	Shawinigan Falls	h = 36 km
U. S. C. G. S.	eP 05 43 19	Ottawa
51.4N, 159.2E		eP 12 44 45
Kamchatka		Resolute
H = 04 02 41.3	JUNE 11	eP 12 43 12
h = 24 km	U. S. C. G. S.	eS? 12 52 55
Resolute	51.4N, 159.3E	Shawinigan Falls
eP 04 10 58	Near coast of	eP 12 44 35
	Kamchatka	
	H = 05 52 51.7	
JUNE 11	h = 18 km	JUNE 11
U. S. C. G. S.	Resolute	U. S. C. G. S.
28.9N, 54.6E	eP 06 01 08	27.6N, 54.6E
Iran	Shawinigan Falls	Iran
H = 05 10 26.0	eP 06 04 31 d	H = 13 57 58.6
h = 38 km		h = 63 km
Banff		Resolute
eP 05 24 15	JUNE 11	eP 14 09 43
Halifax	U. S. C. G. S.	Shawinigan Falls
eP 05 23 19 d	29.3N, 55.2E	eP 14 11 08
Ottawa	Iran	
eP 05 23 43	H = 06 46 54.1	
Penticton	h = 25 km	JUNE 11
eP 05 24 29	Resolute	Resolute
Resolute	eP 06 58 33	eP 17 11 50
eP 05 22 10		
PP 05 25 08?	JUNE 11	JUNE 11
PPP 05 26 52?	U. S. C. G. S.	U. S. C. G. S.
eS 05 31 57	28.1N, 54.7E	24.3N, 98.4E
Shawinigan Falls	Iran	Burma-China
eP 05 23 34	H = 06 51 29.0	border
Victoria	h = 42 km	H = 17 15 30.0
eP 05 24 34	Resolute	h = 38 km
	eP 07 03 12	Resolute
		eP 17 27 42

SEISMOLOGICAL BULLETIN - 1961

JUNE 11
 U.S.C.G.S.
 51.3N, 159.5E
 Near coast of
 Kamchatka
 H = 20 42 52.4
 h = 43 km
 Resolute
 eP 20 51 07

JUNE 11
 U.S.C.G.S.
 22.1N, 141.8E
 Volcano Islands
 region
 H = 22 00 28.1
 h = 100 km
 Resolute
 iP 22 12 19 d

JUNE 12
 Resolute
 eP 00 24 08?

JUNE 12
 U.S.C.G.S.
 49.6S, 163.8E
 Southwest of
 New Zealand
 H = 07 35 24.4
 h = 34 km
 Halifax
 iP' 07 55 09 d
 Ottawa
 eP' 07 54 51
 Resolute
 eP' 07 54 44
 Shawinigan Falls
 eP' 07 54 54

JUNE 12
 U.S.C.G.S.
 21.5N, 106.0E
 North Viet-Nam
 H = 09 58 17.6
 h = 55 km
 Resolute
 iP 10 10 41 c

JUNE 12
 Pentiction
 eP 11 54 20

JUNE 13
 U.S.C.G.S.
 51.9N, 176.5W
 Andreanof Islands
 H = 02 24 25.9
 h = 56 km
 Banff
 eP 02 31 33
 Resolute
 eP 02 31 59?
 Pentiction
 eP 02 31 20
 Victoria
 eP 02 31 04

JUNE 13
 U.S.C.G.S.
 44.0N, 148.4E
 Kurile Islands
 H = 15 16 09.9
 h = 44 km
 Resolute
 eP 15 25 35 c

JUNE 13
 Resolute
 eP 17 39 12

JUNE 13
 U.S.C.G.S.
 21.4S, 176.4W
 Tonga Islands
 H = 21 37 55.0
 h = 146 km
 Banff
 eP 21 50 41
 Pentiction
 iP 21 50 27 d
 Resolute
 eP' 21 56 11
 Victoria
 eP 21 50 04 d

JUNE 14
 U.S.C.G.S.
 24.5N, 95.0E
 Northern Burma
 H = 00 41 10.3
 h = 52 km
 Resolute
 iP 00 53 21

JUNE 14
 U.S.C.G.S.
 20.1N, 121.5E
 Off coast of Luzon,
 Philippine Islands
 H = 09 07 34.7
 h = 25 km
 Resolute
 eP 09 19 56

JUNE 14
 H = 18 55 01
 Mag 1.9
 Pentiction
 eP¹ 18 55 23.1
 eS₁¹ 18 55 40.2
 D = 139 km

DOMINION OBSERVATORIES

JUNE 14	JUNE 15	Penticton
U. S. C. G. S.	48. 2N, 122. 7W	eP 23 34 26
10. 8N, 40. 1E	Entrance to	Resolute
Ethiopia	Puget Sound	iP 23 33 51 c
H = 20 32 24. 0	H = 21 58 27	eS 23 41 13
h = 56 km	Mag 2. 2	S _C S? 23 43 37
Resolute	Alberni	Shawinigan Falls
eP 20 45 22?	eP _n 21 58 57. 2	eP 23 36 52
	eS _n 21 58 11. 4	Victoria
	D = 195 km	eP 23 34 13
JUNE 14	Victoria	
U. S. C. G. S.	eP ₁ 21 58 37. 7	
52. 0N, 172. 2W	eS ₁ 21 58 46. 1	JUNE 16
Fox Islands	D = 69 km	U. S. C. G. S.
H = 23 50 44. 0		45. 6N, 151. 3E
h = 100 km		Kurile Islands
Penticton	JUNE 15	H = 03 17 56. 5
eP 23 57 14	U. S. C. G. S.	h = 25 km
Resolute	51. 7N, 158. 8E	Resolute
e 23 59 57	Near coast of	eP? 03 27 03?
	Kamchatka	
	H = 22 25 50. 6	JUNE 16
JUNE 15	h = 25 km	Penticton
U. S. C. G. S.	Resolute	eP 06 38 29
27. 8N, 54. 8E	eP 22 34 04	Resolute
Iran	Shawinigan Falls	e 06 41 05
H = 06 21 40. 1	eP 22 37 28 c	
h = 113 km		
Resolute	JUNE 15	JUNE 16
eP 06 33 19?	U. S. C. G. S.	H = 07 15 29
	39. 9N, 146. 2E	Mag 2. 1
JUNE 15	Off coast of	Penticton
H = 12 18 12	Honshu, Japan	eP ₁ 07 15 52. 3
Mag 2. 6	H = 22 38 54. 7	eS ₁ 07 16 09. 8
Penticton	h = 78 km	D = 144 km
eP _n 12 18 50. 2	Resolute	
eS _n 12 19 22. 2	eP 22 48 47 c	JUNE 16
D = 262 km		U. S. C. G. S.
JUNE 15	JUNE 15	41. 1S, 74. 5W
H = 19 14 01	45. 4N, 151. 3E	Off coast of
Mag 2. 0	Kurile Islands	southern Chile
Penticton	H = 23 24 40. 5	H = 07 08 16. 5
eP ₁ 19 14 22. 8	h = 38 km	h = 17 km
eS ₁ 19 14 39. 2	Halifax	Halifax
D = 134 km	iP 23 37 16. 5 d	iP 07 21 01. 5c
	Ottawa	Ottawa
	eP 23 36 50	eP 07 21 00

SEISMOLOGICAL BULLETIN - 1961

Shawinigan Falls
eP 07 21 07

JUNE 16
Resolute
eP 11 10 13?

Resolute
eP 11 09 18?
i 11 19 53
Shawinigan Falls
eP 11 06 24

JUNE 16
49. 0N, 121. 6W
South of Hope, B. C.
H = 08 17 26
Mag 2. 0
Penticton
eP₁ 08 17 47. 5
eS₁ 08 18 04. 0
D = 135 km
Victoria
eP₁ 08 17 46. 7
D = 130 km

JUNE 16
U. S. C. G. S.
43. 1N, 103. 9E
Outer Mongolia
H = 12 12 04. 4
h = 23 km
Resolute
eP? 12 22 23

JUNE 17
U. S. C. G. S.
9. 9N, 126. 0E
Mindanao
Philippine Islands
H = 14 32 30. 6
h = 25 km
Resolute
eP 14 45 40

JUNE 16
U. S. C. G. S.
8. 8N, 73. 4W
Colombia
H = 10 31 56. 2
h = 120 km
Banff
iP 10 41 16
Alberni
eP 10 41 47
Halifax
iP 10 38 58 d
Ottawa
eP 10 38 55 d
Penticton
eP 10 41 26 d
Resolute
iP 10 42 40 d
i 10 43 21
Shawinigan Falls
eP 10 39 05 d
Victoria
eP 10 41 38 d

JUNE 16
Penticton
eP 18 42 06

JUNE 17
H = 03 17 58
Mag 3. 3
Penticton
eP_n 03 19 01. 0
eS_n 03 19 56. 9
D = 458 km

JUNE 17
U. S. C. G. S.
14. 2N, 92. 2W
Mexico-Guatemala
border
H = 15 07 36. 1
h = 147 km
Banff
eP 15 15 14 c
Halifax
iP 15 14 52 c
Ottawa
iP 15 14 10 c
Penticton
eP 15 15 17 c
Resolute
eP 15 17 35 c?
Shawinigan Falls
eP 15 14 28 c
Victoria
eP 15 15 26 c

JUNE 17
Canadian Arctic
H = 07 38 48. 9
Mag 1. 3
Resolute
iP₁ 07 38 57. 3
iS₁ 07 39 03. 7
D = 52. 5 km

JUNE 17
U. S. C. G. S.
11. 9S, 75. 3W
Peru
H = 10 56 30. 3
h = 29 km
Mag 5
Ottawa
eP 11 06 15
Penticton
eP 11 07 58

JUNE 17
Resolute
eP? 15 38 03

DOMINION OBSERVATORIES

JUNE 17	Resolute	JUNE 19
U. S. C. G. S.	eP 03 26 00?	U. S. C. G. S.
14.5N, 92.1W	i 03 29 59	12.6N, 121.9E
Near coast of	Shawinigan Falls	Luzon
Guatemala	eP' 03 30 49	Philippine Islands
H = 18 39 51.4	i 03 33 36 c	H = 01 45 29.9
h = 105 km	Victoria	h = 120 km
Alberni	eP' 03 30 14 d	Resolute
eP 18 47 55		iP 01 58 20
Halifax		eS? 02 09 12
eP 18 47 08.5 d	JUNE 18	Shawinigan Falls
Ottawa	46.8N, 123.6W	eP' 02 04 12
eP 18 46 27	Southwest Washington	
Penticton	U. S. A.	
eP 18 47 33	H = 09 12 32	JUNE 19
Resolute	Mag 2.8	U. S. C. G. S.
eP 18 49 50	Alberni	12.5N, 122.2E
Shawinigan Falls	eP _n 09 13 13.9	Near coast of Luzon
eP 18 46 45	D = 286 km	Philippine Islands
Victoria	Victoria	H = 02 22 48.3
eP 18 47 43 d	eP _n 09 13 02.2	h = 20 km
	eS _n 09 13 25.4	Resolute
	D = 190 km	eP 02 35 48
JUNE 17		
U. S. C. G. S.	JUNE 18	JUNE 19
20.8S, 178.9W	U. S. C. G. S.	U. S. C. G. S.
Fiji Islands region	31.3S, 179.8E	39.3N, 142.9E
H = 21 49 25.8	Kermadec Islands	Off coast of Honshu,
h = 627 km	region	Japan
Penticton	H = 13 55 16.6	H = 02 46 03.6
eP 22 01 12	h = 434 km	h = 85 km
	Ottawa	Resolute
JUNE 18	eP' 14 13 21	eP 02 56 03 c?
U. S. C. G. S.	i 14 16 17	
5.9S, 113.0E	Penticton	JUNE 19
Java Sea	eP 14 08 02	Resolute
H = 03 12 35.7	Resolute	eP 07 05 25
h = 641 km	iP' 14 13 16 d	
Alberni	i 14 13 30	JUNE 19
eP' 03 30 12	Shawinigan Falls	U. S. C. G. S.
Banff	eP' 14 13 27 d	39.2N, 142.9E
eP' 03 30 19 d		Off coast of
Halifax	JUNE 19	Honshu, Japan
iP' 03 30 57.5 c	Penticton	H = 07 38 29.6
Ottawa	eP 01 41 51	h = 98 km
eP' 03 30 50		Resolute
i 03 33 38		eP 07 48 30
Penticton		eS 07 56 43
eP 03 30 17 d		S _c S? 07 58 18?

SEISMOLOGICAL BULLETIN - 1961

<p>JUNE 19 U. S. C. G. S. 39.7N, 142.6E Near coast of Honshu, Japan H = 07 59 38.1 h = 23 km Resolute iP 08 09 44</p>	<p>JUNE 19 U. S. C. G. S. 53.7N, 160.7E Kamchatka H = 22 17 13.5 h = 25 km Resolute iP 22 25 10</p>	<p>JUNE 21 U. S. C. G. S. 11.6N, 144.6E Mariana Islands H = 02 41 56.2 h = 77 km Resolute eP 02 54 35</p>
<p>JUNE 19 Resolute eP 08 34 03?</p>	<p>JUNE 20 U. S. C. G. S. 11.5N, 44.5E Gulf of Aden H = 03 21 26.5 h = 30 km Resolute eP 03 34 35?</p>	<p>JUNE 21 U. S. C. G. S. 15.3N, 87.3W Honduras H = 03 57 44.0 h = 114 km Ottawa eP 04 03 57 Penticton eP 04 05 35 Resolute eP 04 07 36 eS? 04 15 47 Shawinigan Falls eP 04 04 15 Victoria eP 04 05 48 d</p>
<p>JUNE 19 49.0N, 121.5W South of Hope, B. C. H = 11 46 51 Mag 2.8 Alberni eP_n 11 47 23.5 eS_n 11 47 49.9 D = 214 km Penticton eP₁ 11 47 12.7 eS₁ 11 47 29.5 D = 138 km Victoria eP_n 11 47 13.2 D = 141 km</p>	<p>JUNE 20 Ottawa eP 09 55 20 Penticton eP 09 56 58 Resolute eP 09 59 00 Shawinigan Falls eP 09 55 37</p>	<p>JUNE 21 U. S. C. G. S. 27.9N, 55.0E Iran H = 06 39 22.8 h = 48 km Resolute eP 06 51 07 c? Shawinigan Falls eP 06 52 30</p>
<p>JUNE 19 U. S. C. G. S. 36.6N, 71.0E Hindu, Kush H = 17 04 30.3 h = 151 km Ottawa eP 17 17 29 Penticton eP 17 17 34 Resolute iP 17 15 20 i 17 16 06 Shawinigan Falls eP 17 17 21 d</p>	<p>JUNE 20 H = 19 01 03 Mag 1.9 Penticton eP₁ 19 01 24.6 eS₁ 19 01 41.2 D = 136 km JUNE 20 U. S. C. G. S. 15.8N, 87.4W Near coast of Honduras H = 21 21 54.2 h = 137 km Resolute eP 21 31 43 Shawinigan Falls eP 21 28 20</p>	<p>JUNE 21 Resolute eP 16 15 04 JUNE 21 Resolute eP 19 06 14</p>

DOMINION OBSERVATORIES

JUNE 21
 U.S.C.G.S.
 28.6N, 55.2E
 Iran
 H = 19 14 41.9
 h = 84 km
 Resolute
 eP 19 26 19?

JUNE 21
 Resolute
 eP 20 38 09

JUNE 21
 U.S.C.G.S.
 7.6S, 110.0E
 Near coast of
 Java
 H = 20 25 00.9
 h = 163 km
 Halifax
 iP' 20 44 18 d
 Ottawa
 eP' 20 44 14
 Penticton
 eP' 20 43 41
 Resolute
 eP' 20 43 21
 e 20 54 24
 Shawinigan Falls
 eP' 20 44 13
 Victoria
 eP' 20 43 37

JUNE 22
 U.S.C.G.S.
 42.4N, 19.6E
 Albania-Yugoslavia
 border
 H = 00 56 04.7
 h = 53 km
 Banff
 eP 01 08 08
 Ottawa
 eP 01 06 40

Penticton
 eP 01 08 17
 Shawinigan Falls
 eP 01 06 23
 Victoria
 eP 01 08 31

JUNE 22
 U.S.C.G.S.
 12.8N, 89.9W
 Off coast of
 El Salvador
 H = 20 00 13.1
 h = 99 km

Ottawa
 eP 20 06 57
 Resolute
 eP 20 10 26
 Shawinigan Falls
 eP 20 07 15

JUNE 23
 Resolute
 eP 01 21 10

JUNE 23
 U.S.C.G.S.
 43.9N, 128.9W
 Off coast of Oregon
 H = 08 55 55.2
 h = 56 km
 Mag 5 3/4

Halifax
 eP 09 04 14.5 d
 Ottawa
 eP 09 03 05
 Resolute
 iP 09 02 39
 eS 09 08 08
 Shawinigan Falls
 eP 09 03 19

JUNE 23
 U.S.C.G.S.
 43.9N, 128.8W
 Off coast of Oregon
 H = 09 22 49.8
 h = 53 km
 Ottawa
 eP 09 29 57
 Resolute
 eP 09 29 31
 Shawinigan Falls
 eP 09 30 10

JUNE 23
 U.S.C.G.S.
 18.5N, 145.2E
 Mariana Islands
 H = 10 05 53.4
 h = 256 km
 Resolute
 iP 10 17 18

JUNE 23
 U.S.C.G.S.
 35.2N, 140.0E
 Honshu, Japan
 H = 11 04 59.1
 h = 138 km
 Resolute
 eP 11 15 25

JUNE 23
 U.S.C.G.S.
 46.9N, 153.9E
 Kurile Islands
 H = 13 20 13.9
 h = 35 km
 Resolute
 iP 13 29 11 c

SEISMOLOGICAL BULLETIN - 1961

- JUNE 23
U. S. C. G. S.
28. 5N, 55. 5E
Iran
H = 16 36 28. 0
h = 54 km
Resolute
eP 16 48 09
- JUNE 23
Resolute
eP 21 36 57?
- JUNE 24
U. S. C. G. S.
13. 6N, 90. 2W
Near coast of
El Salvador
H = 05 07 56. 0
h = 90 km
Mag 4 3/4
Ottawa
eP 05 14 34
Resolute
iP 05 18 02
Shawinigan Falls
eP 05 14 52
Victoria
eP 05 16 00
- JUNE 24
Banff
eP 09 14 24
- JUNE 24
Resolute
eP? 14 02 04
- JUNE 24
H = 22 47 26
Mag 2. 1
Alberni
iP₁ 22 47 35. 4
iS₁ 22 47 42. 6
D = 59 km
- JUNE 24
H = 23 33 04
Mag 1. 9
Alberni
iP₁ 23 33 13. 3
iS₁ 23 33 20. 0
D = 55 km
- JUNE 25
U. S. C. G. S.
40. 8N, 144. 1E
Near coast of
Honshu, Japan
H = 02 29 29. 9
h = 57 km
Resolute
eP 02 39 22
- JUNE 25
U. S. C. G. S.
19. 4S, 177. 9W
Fiji Islands
H = 09 10 04. 2
h = 489 km
Banff
eP 09 22 17
Penticton
eP 09 21 57
- JUNE 25
Resolute
eP? 10 21 35
- JUNE 25
U. S. C. G. S.
36. 6N, 141. 6E
Near coast of
Honshu, Japan
H = 19 14 02. 3
h = 25 km
Resolute
eP 19 24 30
- JUNE 25
U. S. C. G. S.
18. 9N, 121. 3E
Near coast of
Luzon
Philippine Islands
H = 16 21 53. 0
h = 143 km
Resolute
eP 16 34 10
- JUNE 25
U. S. C. G. S.
21. 7N, 143. 1E
North of Mariana
Islands
H = 16 46 32. 9
h = 13 km
Mag 5 3/4
Penticton
eP 16 58 36
Resolute
eP 16 58 28 d?
eS 17 08 14
- JUNE 25
H = 19 10 28
Mag 2. 1
Penticton
iP₁ 19 10 54. 9
iS₁ 19 11 15. 5
D = 168 km
- JUNE 25
U. S. C. G. S.
36. 6N, 141. 6E
Near coast of
Honshu, Japan
H = 19 14 02. 3
h = 25 km
Resolute
eP 19 24 30

DOMINION OBSERVATORIES

JUNE 25 U. S. C. G. S. 37. 9S, 73. 3W Near coast of southern Chile H = 19 32 14. 4 h = 124 km Ottawa eP 19 44 31 Shawinigan Falls eP 19 44 38 d	Ottawa eP 14 58 07 Resolute iP 14 55 05 c? Shawinigan Falls eP 14 58 09 c Victoria eP 14 55 02	JUNE 27 U. S. C. G. S. 27. 8N, 99. 4E China H = 07 03 42. 2 h = 33 km Mag 6 1/2 Resolute eP 07 15 35 d?
JUNE 25 Resolute eP 19 45 35	JUNE 26 U. S. C. G. S. 11. 2N, 74. 5W Near coast of Colombia H = 16 43 40. 5 h = 89 km Resolute eP 16 54 12 Shawinigan Falls eP 16 50 32	JUNE 27 U. S. C. G. S. 54. 6N, 157. 7E Kamchatka H = 07 52 23. 7 h = 19 km Ottawa eP 08 03 38 c Resolute iP 08 00 22 c Shawinigan Falls eP 08 03 39 c Victoria eP 08 00 57 c
JUNE 25 H = 23 04 10 Mag 2. 8 Alberni eP _n 23 04 40. 8 eS _n 23 05 04. 8 D = 196 km	JUNE 27 U. S. C. G. S. 8. 5S, 74. 4W Peru-Brazil border H = 03 07 47. 8 h = 170 km Ottawa eP 03 16 56 Resolute eP 03 20 00?	JUNE 27 Resolute eP 10 57 48
JUNE 26 Resolute eP? 03 00 45	JUNE 27 U. S. C. G. S. 53. 6N, 163. 4W Unimak Island region H = 03 22 09. 2 h = 93 km Resolute eP 03 28 44	JUNE 27 H = 18 40 03 Mag 2. 5 Penticton eP _n 18 40 34. 4 eS _n 18 40 58. 9 D = 200 km
JUNE 26 Resolute iP 07 20 20 c?	JUNE 27 U. S. C. G. S. 52. 4N, 174. 5E Near Islands H = 14 47 26. 1 h = 60 km Mag 5 1/2 Banff eP 14 55 13	JUNE 27 Resolute iP 19 25 00 d?
		JUNE 27 Resolute eP 20 33 42

SEISMOLOGICAL BULLETIN - 1961

JUNE 27	JUNE 28	JUNE 29
H = 21 49 28	Banff	U. S. C. G. S.
Mag 2.3	eP 19 21 11	13.8S, 166.0E
Penticton	Montreal	New Hebrides
eP _n 21 49 49.3	eL 19 36 17	H = 09 22 55.8
eS _n 21 50 05.6	D = 3930 km?	h = 37 km
D = 133 km	Resolute	Mag 6 1/4
	P 19 21 44 c	Halifax
	S 19 24 32	iP' 09 42 06 d
JUNE 28	L 19 26 32	Ottawa
Resolute	D = 1850 km?	eP' 09 41 44
eP 01 27 36	Mag 5.1	Penticton
	Shawinigan Falls	eP 09 36 57
	L 19 36 00	Resolute
JUNE 28	D = 3860 km?	eP 09 37 06?
U. S. C. G. S.		e 09 41 20
31.2N, 104.0E	JUNE 28	Shawinigan Falls
China	Victoria	eP' 09 41 48
H = 04 21 53.8	eP 19 26 15	Victoria
h = 34 km		eP 09 35 45 c
Resolute		
eP 04 33 26	JUNE 28	JUNE 29
	Alberni	Resolute
JUNE 28	eP 20 49 10	eP 11 44 02
H = 10 22 46		
Mag 3.0	JUNE 28	JUNE 29
Penticton	Alberni	U. S. C. G. S.
iP _n 10 23 15.0	eP 21 26 17	52.2N, 173.4W
D = 186 km		Andreevof Islands
Victoria	JUNE 28	H = 14 02 42.5
eP _n 10 23 24.6	H = 22 48 00	h = 76 km
eS _n 10 23 57.0	Mag 1.8	Alberni
D = 266 km	Penticton	eP 14 08 56
	eP ₁ 22 48 23.3	Ottawa
JUNE 28	eS ₁ 22 48 41.2	eP 14 12 42
Resolute	D = 147 km	Penticton
P 15 39 55.5 d		eP 14 09 19
S 15 42 43.5	JUNE 28	Resolute
L 15 44 38?	Resolute	eP 14 09 51
D = 1850 km	P 22 56 19 d	i 14 12 08
Mag 4.9	S 22 59 09?	Shawinigan Falls
Shawinigan Falls	L 23 01 08	eP 14 12 46
L = 15 54 18	D = 1875 km?	Victoria
D = 3910 km?	Shawinigan Falls	eP 14 09 02 c
Victoria	L 23 11 00	
eP 15 44 09	D = 3960 km?	

DOMINION OBSERVATORIES

JUNE 29

Canadian Arctic

H = 19 31 19.4

Mag 1.3

Resolute

iP₁ 19 31 26

iS₁ 19 31 31

D = 41 km

JUNE 29

U. S. C. G. S.

85.0N, 97.3E

Severnaya Zemlya
region

H = 22 01 21.0

h = 11 km

Resolute

eP 22 06 00

eS 22 09 51

JUNE 29

H = 23 53 26

Mag 2.3

Alberni

eP₁ 23 53 49.4

eS₁ 23 54 07.1

D = 147 km

JUNE 30

Resolute

eP 05 15 47?

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the second quarter of 1961. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 3 at 08 42 43 U.T. Magnitude 3.6. Originated 910 km from Resolute, N.W.T.

APRIL 4 at 17 37 54 U.T. Magnitude 4.5. Originated 1850 km from Resolute, N.W.T.

APRIL 5 at 01 13 08 U.T. Magnitude 1.4. Originated 32.8 km from Resolute, N.W.T.

APRIL 9 at 16 40 50 U.T. Magnitude 2.3. Originated 49 km from Resolute, N.W.T.

APRIL 13 at 06 33 11 U.T. Magnitude 1.8. Originated 134 km from Resolute, N.W.T.

APRIL 15 at 10 36 10 U.T. Magnitude 3.9. Originated 900 km from Resolute, N.W.T.

APRIL 16 at 20 42 45 U.T. Magnitude 2.5. Originated 94 km from Resolute, N.W.T.

APRIL 23 at 07 25 16 U.T. Magnitude 0.9. Originated 39.2 km from Resolute, N.W.T.

MAY 9 at 13 04 01 U.T. Magnitude 1.6. Originated 137 km from Resolute, N.W.T.

MAY 19 at 22 00 21 U.T. Magnitude 4.4. Originated 1100 km from Resolute, N.W.T.

MAY 21 at 11 56 02 U.T. Magnitude 1.1. Originated 34.4 km from Resolute, N.W.T.

MAY 22 at 21 05 30 U.T. Magnitude 2.6. Originated 228 km from Resolute, N.W.T. at a depth of about 9 km.

MAY 23 at 11 30 11 U.T. Magnitude 3.9. Originated 725 km from Resolute, N.W.T. It is considered to be a foreshock of the earthquake which follows. The seismic traces are very similar.

MAY 23 at 12 02 28 U.T. Magnitude 4.5. Originated 725 km from Resolute, N.W.T. This earthquake has one foreshock and one after-shock.

DOMINION OBSERVATORIES

MAY 23 at 12 45 04 U.T. Magnitude 4.0. Originated 725 km from Resolute, N.W.T. Aftershock of the preceding earthquake.

JUNE 8 at 05 48 20 U.T. Magnitude 1.4. Originated 82 km from Resolute, N.W.T.

JUNE 8 at 22 04 06 U.T. Magnitude 0.8. Originated 29 km from Resolute, N.W.T.

JUNE 17 at 07 38 49 U.T. Magnitude 1.3. Originated 53 km from Resolute, N.W.T.

JUNE 29 at 19 31 19 U.T. Magnitude 1.3. Originated 41 km from Resolute, N.W.T.

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA
AND ADJACENT AREAS

The following disturbance was recorded during the second quarter of 1961. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 20 at 13 13 00 U. T. Magnitude 2.0. Epicentre 45°00'N;
74°47'W. Between Cornwall, Ont. and Massena, N. Y. Felt at both
places.

DOMINION OBSERVATORIES

EARTHQUAKES IN WESTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the second quarter of 1961. The times of observed phases are given at their respective chronological positions in the text of this bulletin. The quality (Q) of the epicentre is indicated by a letter from "a" meaning an excellent fit of the observed data to "d" meaning a very poor solution.

APRIL 1 at 01 01 19 U.T. Magnitude 2.9. Epicentre at 48.4N;
122.2W. East of Mount Vernon, Washington, U.S.A. Q:b.

APRIL 1 at 01 02 57 U.T. Magnitude 2.5. Epicentre at 48.7N;
122.3W. East of Bellingham, Washington, U.S.A. Q:b.

APRIL 1 at 01 07 35 U.T. Magnitude 2.2 Epicentre at 48.4N;
122.1W. East of Mount Vernon, Washington, U.S.A. Q:c.

APRIL 1 at 15 25 24 U.T. Magnitude 2.3 Probably east of Bellingham,
Washington, U.S.A. Q:d.

APRIL 1 at 16 10 20 U.T. Magnitude 2.3 Epicentre at 48.9N;
122.2W. Northeast of Bellingham, Washington, U.S.A. Q:b.

APRIL 2 at 23 32 57 U.T. Magnitude 2.0. Epicentre at 47.6N;
121.7W. East of Seattle, Washington, U.S.A. Q:c.

APRIL 10 at 18 55 57 U.T. Magnitude 1.8. 28 km from Victoria. Q:d.

APRIL 11 at 20 33 48.9 U.T. Magnitude 3.6. Epicentre at 50.0N;
128.6W. North of Vancouver Island, B.C. Q:c.

APRIL 13 at 13 08 01 U.T. Magnitude 3.0. Epicentre at 49.9N;
120.6W. Possibly a blast near Merritt, B.C. Q:c.

APRIL 13 at 14 02 22 U.T. Magnitude 1.7. 90 km from Penticton. Q:d

APRIL 16 at 12 22 47.1 U.T. Magnitude 4.2. Epicentre at 51.6N;
130.6W. Off northwest coast of Vancouver Island, B.C. Q:c.

APRIL 16 at 15 35 02 U.T. Magnitude 3.1. Epicentre at 47.4N;
120.0W. Near Wenatchee, Washington, U.S.A. Q:c.

APRIL 17 at 20 28 08 U.T. Magnitude 1.2. 22 km from Penticton.

APRIL 20 at 12 22 04 U.T. Magnitude 2.3. 96 km from Victoria.

APRIL 22 at 16 03 49 U.T. Magnitude 3.3. Epicentre at 49.0N;
119.7W. Southwest of Penticton, B.C. Q:C.

SEISMOLOGICAL BULLETIN - 1961

- APRIL 26 at 08 06 34 U.T. Magnitude 2.7. Epicentre at 48.2N;
124.9W. Off west coast of Washington, U.S.A. Q:c.
- MAY 2 at 05 37 27 U.T. Magnitude 2.4. Epicentre at 48.8N;
124.7W. Southwest of Vancouver Island, B.C. Q:c.
- MAY 9 at 19 30 51 U.T. Magnitude 1.6. 144 km from Penticton.
- MAY 16 at 03 28 48 U.T. Magnitude 1.8. 90 km from Victoria.
- MAY 22 at 01 57 55 U.T. Magnitude 2.6. About 233 km from Victoria
in Washington, U.S.A.
- MAY 23 at 03 49 31 U.T. Magnitude 2.7. 94 km from Victoria in
Washington, U.S.A.
- MAY 24 at 13 34 46 U.T. Magnitude 4.0. Epicentre at 45.5N;
128.5W. Off west coast of Washington, U.S.A. Q:c.
- MAY 26 at 05 50 45 U.T. Magnitude 3.0. Epicentre at 46.1N;
123.0W. Near Longview, Washington, U.S.A. Q:c.
- MAY 26 at 06 27 57 U.T. Magnitude 2.1. 152 km from Penticton.
- MAY 31 at 11 38 42 U.T. Magnitude 2.2. 97 km from Victoria.
- JUNE 1 at 16 26 07 U.T. Magnitude 3.2. Epicentre at 48.6N;
128.1W. Off west coast of Vancouver Island, B.C. Q:c.
- JUNE 1 at 18 53 02 U.T. Magnitude 3.2. Epicentre at 48.6N;
128.1W. Off coast of Vancouver Island, B.C. Q:c.
- JUNE 2 at 13 56 56 U.T. Magnitude 2.3. 276 km from Penticton.
- JUNE 2 at 19 56 38 U.T. Magnitude 1.5. 156 km from Penticton.
- JUNE 3 at 08 20 46 U.T. Magnitude 1.5. 26 km from Victoria.
- JUNE 3 at 21 36 07 U.T. Magnitude 2.3. 60 km from Alberni.
- JUNE 4 at 16 40 45 U.T. Magnitude 2.9. Epicentre at 47.8N;
123.8W. Olympics, Washington, U.S.A. Q:c.
- JUNE 5 at 01 03 43 U.T. Magnitude 2.8. 349 km from Penticton.
- JUNE 5 at 22 58 28 U.T. Magnitude 3.7. 626 km from Penticton.
- JUNE 9 at 19 25 23 U.T. Magnitude 1.8. 140 km from Penticton.
- JUNE 10 at 23 39 22 U.T. Magnitude 2.3. 164 km from Penticton.

DOMINION OBSERVATORIES

- JUNE 14 at 18 55 01 U.T. Magnitude 1.9. 139 km from Penticton.
- JUNE 15 at 12 18 12 U.T. Magnitude 2.6. 262 km from Penticton.
- JUNE 15 at 19 14 01 U.T. Magnitude 2.0. 134 km from Penticton.
- JUNE 15 at 21 58 27 U.T. Magnitude 2.2. Epicentre at 48.2N;
122.7W. Entrance to Puget Sound. Q:c.
- JUNE 16 at 07 15 29 U.T. Magnitude 2.1. 144 km from Penticton.
- JUNE 16 at 08 17 26 U.T. Magnitude 2.0. Epicentre at 49N;
121.6W. South of Hope, B.C. Q:c.
- JUNE 17 at 03 17 58 U.T. Magnitude 3.3. 458 km from Penticton.
- JUNE 18 at 09 12 32 U.T. Magnitude 2.8. Epicentre at 46.8N;
123.6W. Southwest Washington, U.S.A. Q:c.
- JUNE 19 at 11 46 51 U.T. Magnitude 2.8. Epicentre at 49.0N;
121.5W. South of Hope, B.C. Q:c.
- JUNE 20 at 19 01 03 U.T. Magnitude 1.9. 136 km from Penticton.
- JUNE 24 at 22 47 26 U.T. Magnitude 2.1. 59 km from Alberni.
- JUNE 24 at 23 33 04 U.T. Magnitude 1.9. 55 km from Alberni.
- JUNE 25 at 19 10 28 U.T. Magnitude 2.1. 168 km from Penticton.
- JUNE 25 at 23 04 10 U.T. Magnitude 2.8. 196 km from Alberni.
- JUNE 27 at 18 40 03 U.T. Magnitude 2.5. 200 km from Penticton.
- JUNE 27 at 21 49 28 U.T. Magnitude 2.3. 133 km from Penticton.
- JUNE 28 at 10 22 46 U.T. Magnitude 3.0. 266 km from Victoria.
- JUNE 28 at 22 48 00 U.T. Magnitude 1.8. 147 km from Penticton.
- JUNE 29 at 23 53 26 U.T. Magnitude 2.3. 147 km from Alberni.