SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

1961-1
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Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1961

SEISMOLOGICAL BULLETIN - 1961

This report lists the instrumental results obtained at the seismological stations maintained by the Seismological Service of Canada. These are divided into two divisions.

Eastern Division

Halifax, Nova Scotia -
Operated by Dalhousie University for the Dominion Observatory.

Ottawa, Ontario -
Dominion Observatory, Department of Mines and Technical Surveys

Resolute, Northwest Territories -
Owned and operated by the Dominion Observatory.
M. Strader in charge.

Seven Falls, Quebec -
Owned by the Quebec Power Company; operated by the Company for the Dominion Observatory.

Shawinigan Falls, Quebec -
Owned by the Shawinigan Water and Power Co.; operated by the Company for the Dominion Observatory.

Local earthquakes are interpreted by means of travel-time curves based on rockburst studies. (See J. H. Hodgson, Publications of the Dominion Observatory, XVI, Nos. 5 and 6.)

DOMINION OBSERVATORIES

Western Division

Alberni, British Columbia -
Owned and operated by the Dominion Observatory.
W. N. Burgess in charge.

Banff, Alberta -
Operated by the Banff School of Fine Arts for the Dominion Observatory.

Penticton -
Owned and operated by the Dominion Observatory.

Victoria, British Columbia -
Dominion Astrophysical Observatory, Department of Mines and Technical Surveys, Royal Oak, B.C.

Local earthquakes are interpreted by means of travel-time curves based on blast studies. (See W. G. Milne and W.R.H. White, Publications of the Dominion Observatories, XXIV, No. 7.) Records for all stations of the Seismological Service of Canada are stored on microfilm in Ottawa. Positive microfilm copies, or full-scale prints, will be sent on request. Beginning in 1960 records of the station at Brebeuf College, Montreal, are included in the microfilm file through the courtesy of M. Buist, S.J., Director.

Magnification curves for the various instruments operated at the above stations will be found on the following pages.

John H. Hodgson,
Chief, Division of Seismology.

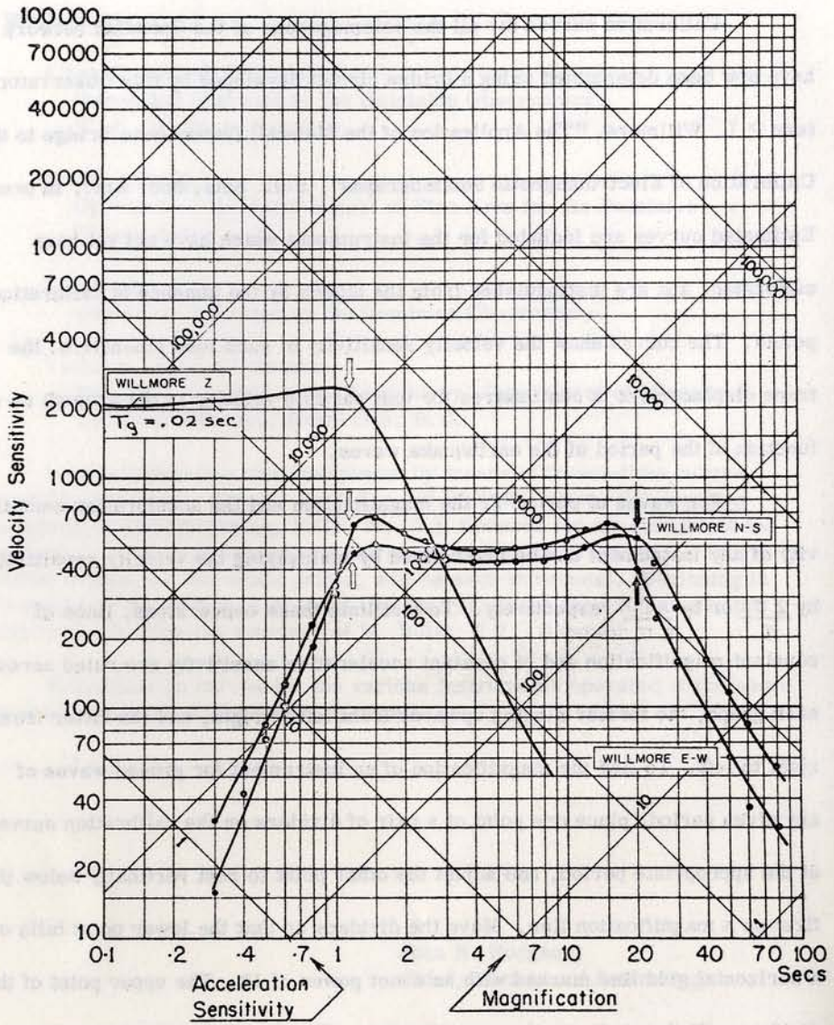
Explanation of Calibration Curves

Calibration curves for all the seismographs of the Canadian network have now been determined using a bridge circuit developed by this Observatory (see P.L. Willmore, "The Application of the Maxwell Impendence Bridge to the Calibration of Electromagnetic Seismographs", Bull. Seis. Soc. Am., in press). Estimated curves are included for the instruments which have not yet been calibrated, and are distinguished from the others by the absence of calibration points. The curves show the velocity sensitivity of each instrument (i.e. the trace displacement in centimetres for unit particle velocity in the ground) as a function of the period of the earthquake waves.

For waves of period T, the magnification and the acceleration sensitivity of any instrument can be determined by multiplying the velocity sensitivity by $\frac{2\pi}{T}$ or by $\frac{T}{2\pi}$ respectively. To facilitate these conversions, lines of constant magnification and of constant acceleration sensitivity are ruled across each graph, the former sloping upwards from left to right, and the latter from right to left. To find the magnification of an instrument for ground waves of any given period, place one point of a pair of dividers on the calibration curve at the appropriate period, and adjust the other point to rest vertically below the first on a magnification line. Move the dividers so that the lower point falls on a horizontal grid line marked with an exact power of 10. The upper point of the dividers will then indicate the magnification. The decimal multiplier will be determined by the fact that the magnification must lie between the values indicated on the datum lines above and below the calibration point. The acceleration sensitivity can be found in the same way as the magnification, starting with an acceleration datum line.

CALIBRATION CURVES

STATION: ALBERNI



ϕ = 49° 16'14"N λ = 124°49'18"W Altitude

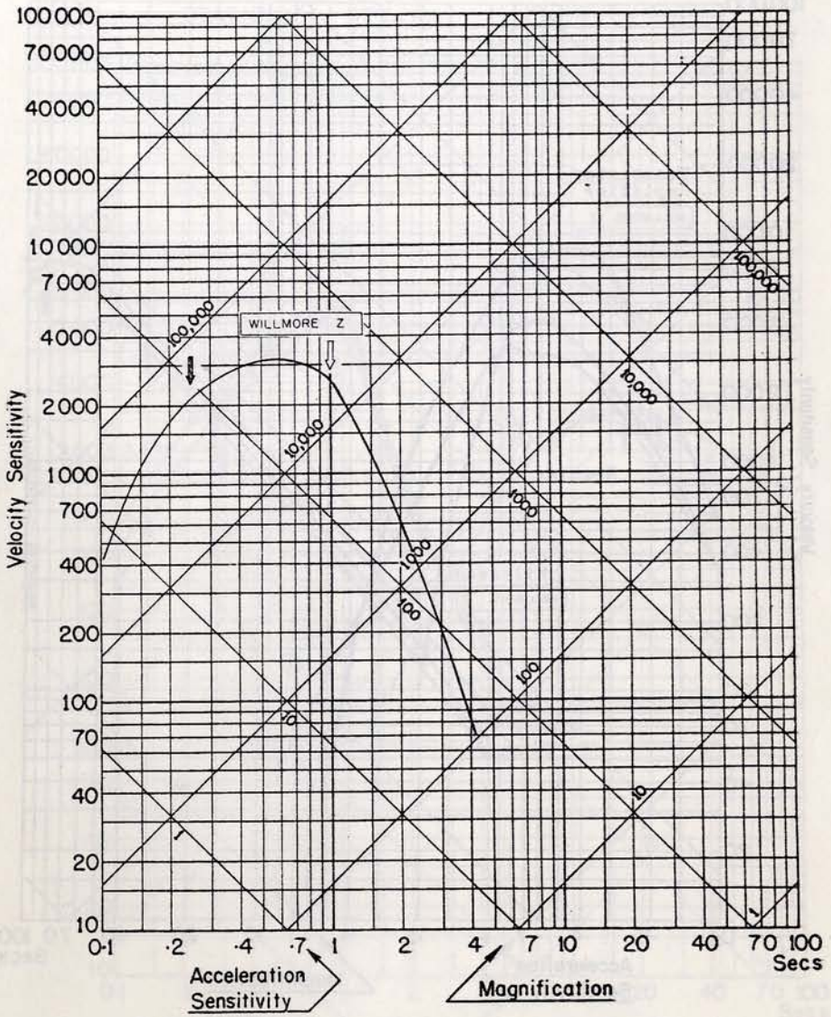
Foundation : Basic volcanic rock

T_s ⇕ T_g ⇕

Date of Calibration: July 9 1957.

CALIBRATION CURVES

STATION: BANFF



ϕ = 51°10.3' N λ = 115°33.5' W Altitude

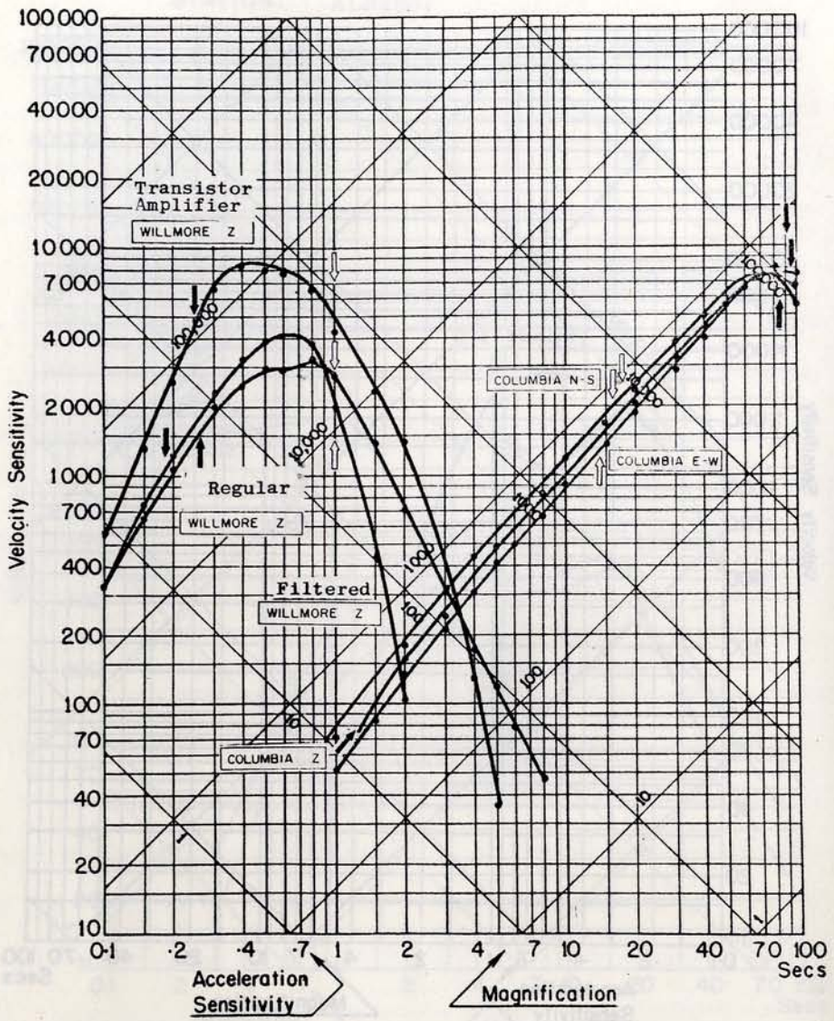
Foundation : Bedrock

T_s ⇕ T_g ⇕

Date of Calibration: Estimated Curve

CALIBRATION CURVES

STATION: HALIFAX



ϕ = 44°38'N λ = 63°36'W Altitude 56 M

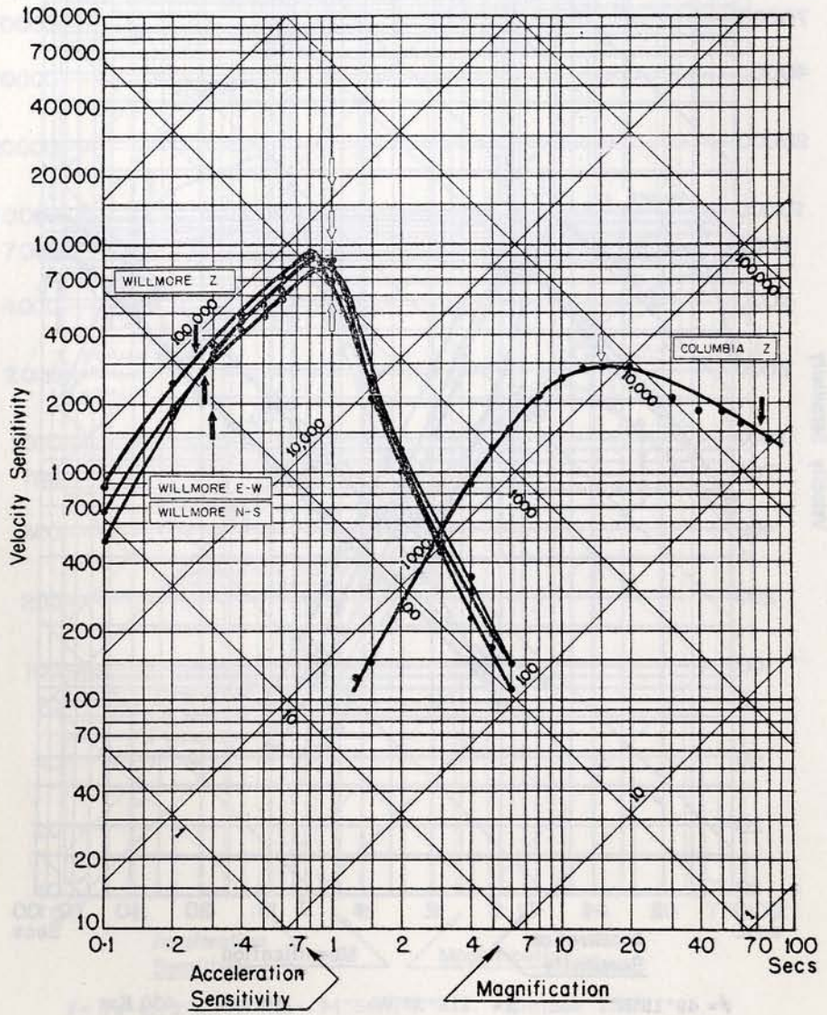
Foundation : Carbonaceous slate

T_s ↑ T_g ↑

Date of Calibration: June 1960

CALIBRATION CURVES

STATION: OTTAWA



ϕ = 45°23'38"N λ = 75°42'57"W Altitude 83 M

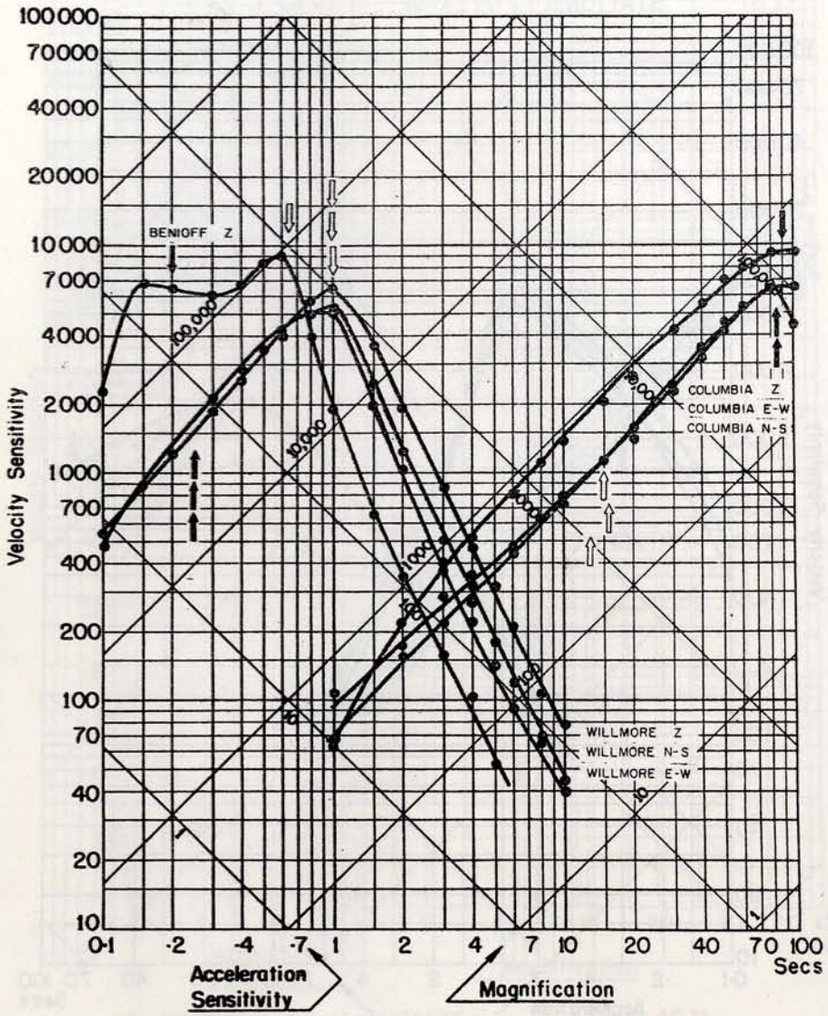
Foundation : Boulder clay on limestone

T_s ↑ T_g ↑

Date of Calibration: Columbia Dec-12-1956
Willmore Dec-2-1960
Willmore N-S-Dec-9-1960
Willmore E-W-Dec-9-1960

CALIBRATION CURVES

STATION: PENTICTON



ϕ = 49°19'N λ = 119°37'W Altitude 550 Km

Foundation: Tertiary shale

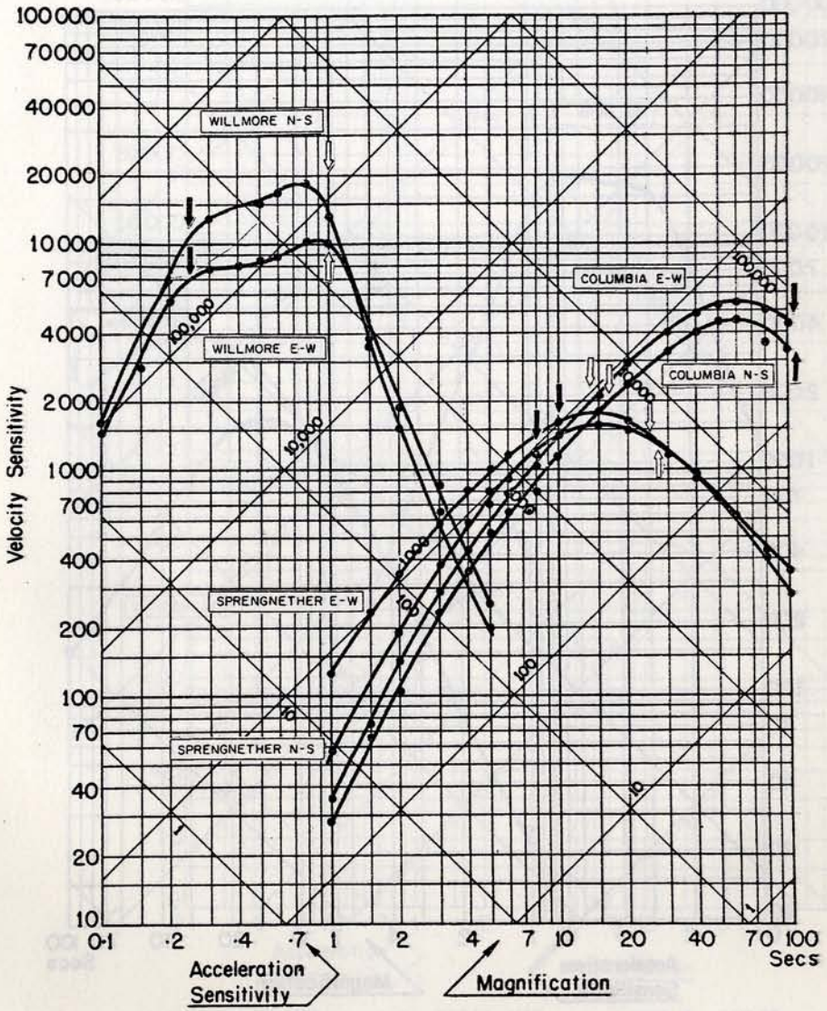
T_s T_g

Date of Calibration: Feb. 1961

Willmore's		Columbia's	
S. P. -Z	**Feb-20**	L. P. -Z	Feb-19
S. P. H. -N. S.	**Feb-20**	L. P. H. - N. S.	Feb-18
S. P. H. -E. W.	**Feb-20**	L. P. H. -E. W.	Feb-18
Benioff			
S. P. -Z	Feb-19		

CALIBRATION CURVES

STATION: RESOLUTE (Horizontals)



ϕ = 74°41.2'N λ = 94°54.0'W Altitude 15M

Foundation: Early Palaeozoic limestone

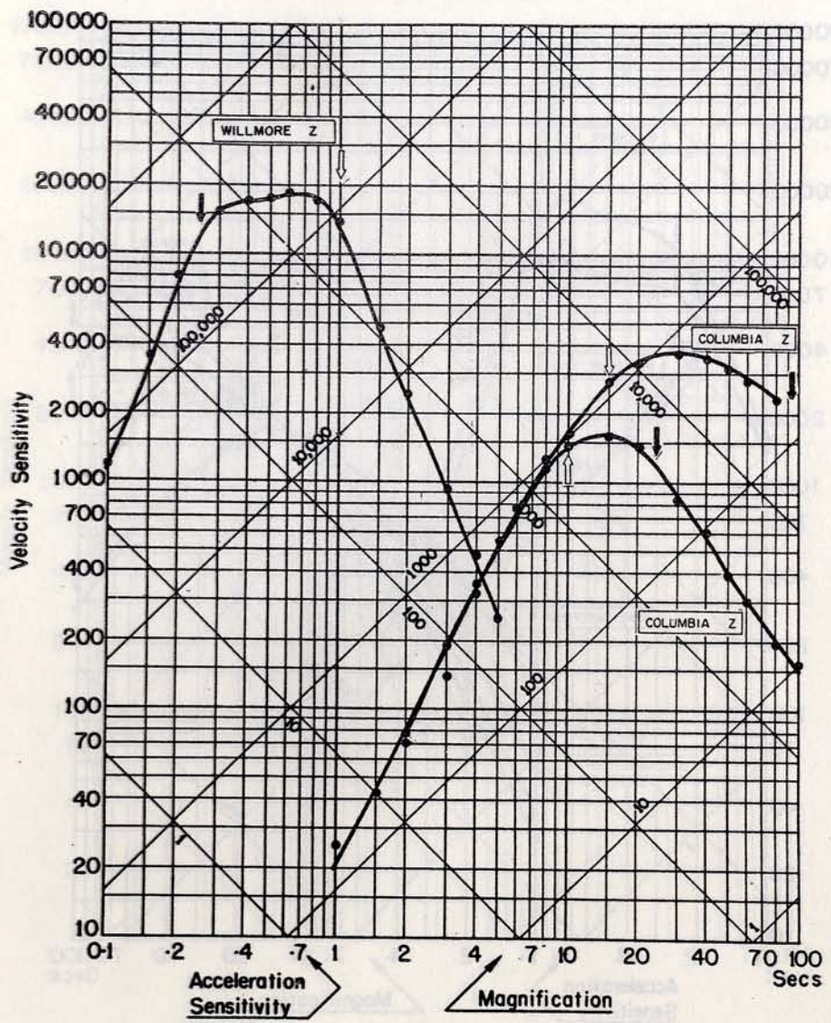
T_s T_g

Date of Calibration: Aug.-Sept. 1958

Willmore N-S - August 18/58	Columbia N-S - September 15/58
Willmore E-W - September 20/58	Columbia E-W - September 15/58
Sprengnether N-S - September 7/58	Sprengnether E-W - September 8/58

CALIBRATION CURVES

STATION : RESOLUTE (Verticals)



ϕ = 74°41.2'N λ = 94°54.0'W Altitude 15M

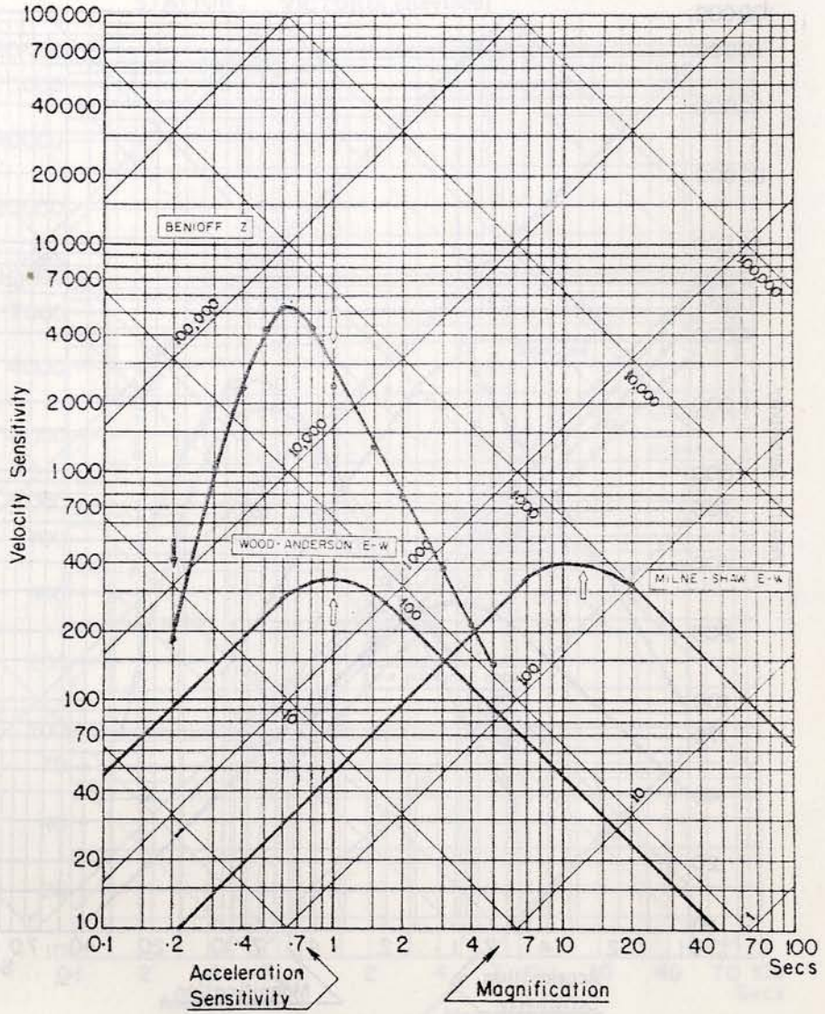
Foundation : Early Palaeozoic limestone

T_s T_g

Date of Calibration: September 1958
Willmore Z - August 18-58
Columbia LPZ - September 17-58
Columbia Z - September 13 -58

CALIBRATION CURVES

STATION : SEVEN FALLS



ϕ = 47°07.4'N λ = 70°49.6'W Altitude 232 M

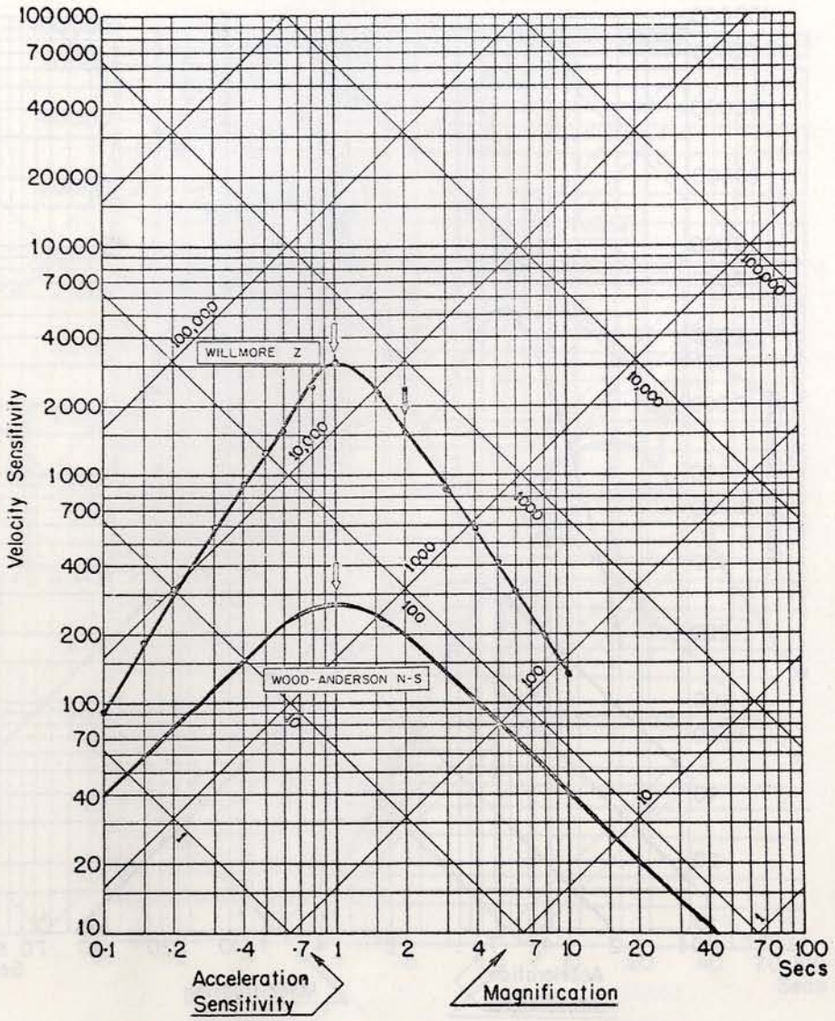
Foundation : Precambrian basement rock

T_s T_g

Date of Calibration: May 28, 1960

CALIBRATION CURVES

STATION : SHAWINIGAN FALLS



ϕ = 46° 33.1' N λ = 72° 45.8' W Altitude 60 M

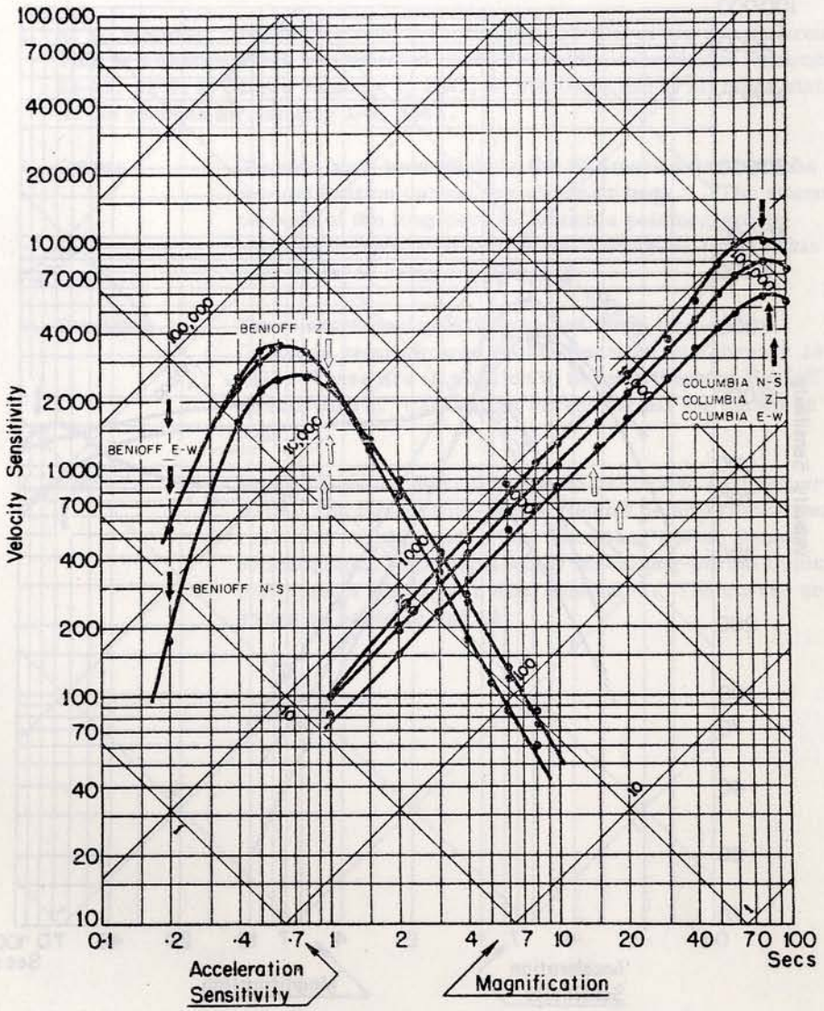
Foundation : PRECAMBRIAN BASEMENT

T_s ⇑ T_g ⇑

Date of Calibration: November 6, 1959

CALIBRATION CURVES

STATION : VICTORIA (Revised)



ϕ = 48°31'10"N λ = 123°24'55" W Altitude 197 M

Foundation : Quartz Diorite

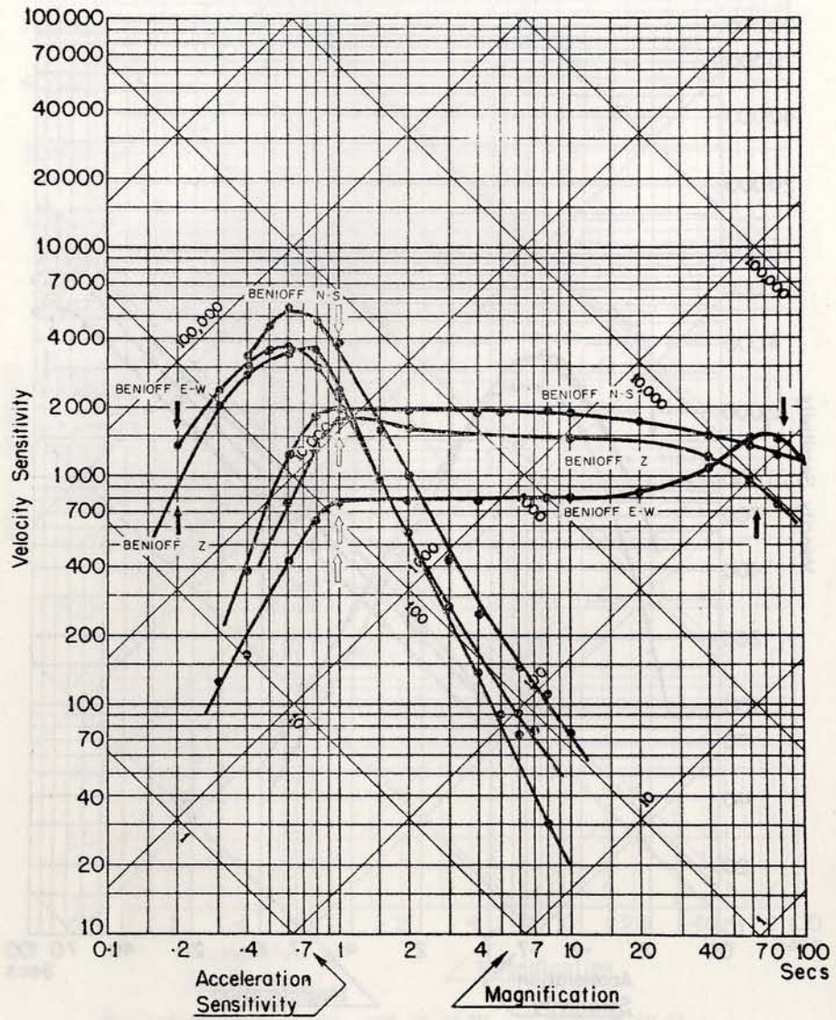
T_s ⇑ T_g ⇑

Date of Calibration: February - March - 1961

Benioff's		Columbia's	
S.P.Z.	Feb. 9	L.P.Z.	Mar. 22
S.P.H. - N.S.	Feb. 10	L.P.H. - N.S.	Mar. 3
S.P.H. - E.W.	Feb. 13	L.P.H. - E.W.	Mar. 2

CALIBRATION CURVES

STATION : VICTORIA



ϕ = 48°31'10"N λ = 123°24'55" W Altitude 197 M

Foundation : Quartz Diorite

T_s ⇧ T_g ⇧

Date of Calibration: February - 1961

Benioff's		Benioff's	
S.P.Z.	Feb. 7	L.P.Z.	Feb. 8
S.P.H. - N.S.	Feb. 9	L.P.H. - N.S.	Feb. 9
S.P.H. - E.W.	Feb. 11	L.P.H. - E.W.	Feb. 11

DOMINION OBSERVATORIES

JANUARY - MARCH 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. Ottawa — Changes have been made in the Willmore seismographs and new calibration curves are shown on page 7. The attenuator network of the long-period Columbia seismograph is believed to have been altered on January 9, 1959. This instrument is being recalibrated.

3. Penticton — Three short-period Willmore and three long-period Columbia seismographs began operation on February 18, 1961. These are in addition to the short-period Benioff already there. Calibration curves for all are shown on page 8.

4. Victoria — The six Benioff instruments were calibrated on February 7, 1961. The three short-period Benioff seismographs were reset and recalibrated. The three long-period Benioff seismographs were replaced by three long-period Columbia instruments which were also calibrated. The curves are shown on pages 13 and 14.

DOMINION OBSERVATORIES

JANUARY 1
U.S.C.G.S.
19.4N, 121.0E
Philippine Islands
H = 13 52 37.6
h = 77 km
Resolute
eP 14 05 01

JANUARY 1
U.S.C.G.S.
18.3S, 178.2W
Fiji Islands region
H = 16 38 27.8
h = 663 km
Penticton
iP 16 50 01 d
Victoria
eP 16 49 48

JANUARY 1
U.S.C.G.S.
54.1S, 7.4E
Bouvet Island region
H = 19 33 20.1
h = 91 km
Resolute
iP' 19 52 47 d?

JANUARY 1
U.S.C.G.S.
49.5S, 125.5E
South of Australia
H = 20 22 14.6
h = 59 km
Resolute
iP' 20 42 02 d?

JANUARY 2
U.S.C.G.S.
12.4S, 166.4E
Santa Cruz Islands region
H = 10 11 56.9
h = 161 km
Mag 6 3/4
Alberni
eP 10 24 41
Banff
eP 10 24 52
Halifax
iP' 10 30 45.5 d
Ottawa
eP' 10 30 29 d
Penticton
eP 10 24 37
Resolute
eP 10 25 50 ?
Seven Falls
eP' 10 30 38 c
Shawinigan Falls
eP' 10 30 33
Victoria
eP 10 24 25

JANUARY 2
46.2N, 122.7W
Near Longview
Washington, U.S.A.
H = 15 54 36
Mag 2.9
Penticton
eP_n 15 55 34.6
eS_n 15 56 26.0
D = 428 km
Victoria
eP_n 15 55 15.6
eS_n 15 55 49.7
D = 272 km

JANUARY 2
U.S.C.G.S.
52.0N, 157.9E
Near east coast of Kamchatka
H = 16 21 34.0
h = 43 km
Banff
eP 16 30 30
Ottawa
eP 16 32 57 d
Penticton
eP 16 31 23
Resolute
iP 16 29 47 c?
Victoria
eP 16 31 10

JANUARY 2
Resolute
eP 23 11 46?

JANUARY 3
Penticton
eP 00 44 28
Victoria
eP 00 44 07

JANUARY 3
U.S.C.G.S.
1.1N, 29.2W
Mid - Atlantic Ocean
H = 08 10 40.4
h = 25 km
Resolute
eP 08 23 06?

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JANUARY 3
U.S.C.G.S.
6.8S, 129.3E
Banda Sea
H = 11 40 42.5
h = 72 km
Resolute
eP 11 54 58 ?
Seven Falls
eP' 11 59 59 c
i 12 03 21

JANUARY 3
Canadian Arctic
H = 12 05 24.5
h = 25 km ?
Mag 3.4
Resolute
e 12 06 40.5
i 12 06 43.5
iP_1 12 06 52
iS_n 12 07 28.5
S_1 12 07 59
D = 550 km

JANUARY 3
Resolute
eP 14 53 00?

JANUARY 3
Resolute
eP 16 21 34?

JANUARY 3
Shawinigan Falls
eP 16 32 58

JANUARY 3
U.S.C.G.S.
20.3S, 68.2W
Southern Bolivia
H = 17 41 58.7
h = 211 km
Penticton
eP 17 54 07
Seven Falls
eP 17 52 37

JANUARY 3
U.S.C.G.S.
24.0S, 67.0W
Chile-Argentina border
H = 19 08 08.9
h = 207 km
Seven Falls
eP 19 20 04

JANUARY 3
U.S.C.G.S.
6.4S, 130.4E
Banda Sea
H = 19 27 00.4
h = 100 km
Seven Falls
eP' 19 46 15
i 19 49 35

JANUARY 3
Canadian Arctic
H = 20 47 48
Mag 4.3
Resolute
eP_n 20 50 28
iS_n 20 52 24.5
L_g 20 53 35
D = 1250 km

JANUARY 3
Alberni
eP 22 05 12
Penticton
eP 22 06 00

JANUARY 3
Canadian Arctic
H = 23 30 45.2
h = 4 km
Mag 2.7
Resolute
eP_n 23 31 18
iP_1 23 31 19
i 23 31 20.7
i 23 31 34.5
iS_n 23 31 42.5
S_1 23 31 44.3
D = 210 km

JANUARY 4
Penticton
eP 01 06 26

JANUARY 4
H = 01 53 04
Mag 3.1
Penticton
eP_n 01 53 57.4
eS_n 01 54 49.4
D = 425 km

JANUARY 4
50°55'N, 124°52'W
At the head of Butte Inlet
H = 07 26 04
Mag 3.3
Alberni
eP_n 07 26 35.0
D = 196 km
Penticton
eP_n 07 27 03.6
eS_n 07 27 57.4
D = 430 km
Victoria
eP_n 07 26 47.2
eS_n 07 27 23.4
D = 296 km

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JANUARY 4
48.3N, 121.6W
South of Mount Baker
Washington, U.S.A.
H = 10 00 57
Mag 1.8
Penticton
eP_n 10 01 27.1
eS_n 10 01 49.3
D = 181 km
Victoria
eP_1 10 01 19.2
eS_1 10 01 36.6
D = 136 km

JANUARY 4
U.S.C.G.S.
17.6N, 101.2W
Near coast of
Mexico
H = 12 04 33.8
h = 40 km
Ottawa
eP 12 11 24
Penticton
eP 12 11 24
Resolute
eP 12 14 18
Seven Falls
eP 12 12 04
Shawinigan Falls
eP 12 11 51

JANUARY 4
U.S.C.G.S.
17.4S, 178.9W
Fiji Islands
H = 13 25 35.6
h = 591 km
Penticton
eP 13 37 12

JANUARY 4
Seven Falls
eP 19 02 13

JANUARY 4
Resolute
eP 19 22 57

JANUARY 4
U.S.C.G.S.
5.5S, 128.7E
Banda Sea
H = 19 16 19.5
h = 173 km
Seven Falls
iSKP 19 38 23

JANUARY 4
H = 20 34 29
Mag 2.6
Penticton
eP_1 20 34 49.9
eS_1 20 35 05.5
D = 128 km

JANUARY 5
H = 06 20 06
Mag 1.8
Victoria
eP_1 06 20 13.7
eS_1 06 20 19.8
D = 50 km

JANUARY 5
U.S.C.G.S.
51.6N, 176.3W
Andreanof Islands
H = 14 06 25.9
h = 37 km
Mag 6 1/4
Alberni
eP 14 12 57
Banff
iP 14 13 36 c
Halifax
iP 14 17 24.5 d
Ottawa
eP 14 16 43 c
Penticton
iP 14 13 22 c
Resolute
eP 14 13 52 c?
PP 14 15 22
eS 14 19 43
Seven Falls
iP 14 16 50 c
Shawinigan Falls
eP 14 16 47 c
Victoria
eP 14 13 06 c

JANUARY 5
U.S.C.G.S.
45.7N, 149.3E
Kurile Islands
H = 15 09 37.9
h = 19 km
Ottawa
eP 15 21 52
Penticton
eP 15 19 30
Resolute
iP 15 18 54 c
Seven Falls
eP 15 21 59
Shawinigan Falls
eP 15 21 55

JANUARY 5
U.S.C.G.S.
4.1S, 143.0E
New Guinea
H = 15 53 56.0
h = 108 km
Mag 6 3/4
Ottawa
eP' 16 12 50 d
Penticton
iP 16 07 27
Resolute
eP 16 07 42 d?
i 16 19 09
Seven Falls
eP' 16 12 53 d
Shawinigan Falls
eP' 16 12 52 d
Victoria
eP 16 07 19

JANUARY 5
Resolute
eP 16 23 46

JANUARY 5
U.S.C.G.S.
21.2S, 169.3E
Loyalty Islands
region
H = 17 57 56.6
h = 123 km
Mag 6 3/4
Alberni
eP 18 10 56
Halifax
eP' 18 16 59 c
Ottawa
eP' 18 16 40 c
Penticton
eP 18 11 07
Resolute
eP? 18 12 30 ?
P' 18 16 21
i 18 26 37
PKKP 18 27 16?
Seven Falls
eP' 18 16 47 c
Shawinigan Falls
eP' 18 16 43
Victoria
eP 18 10 56

JANUARY 5
U.S.C.G.S.
21.0S, 169.1E
Loyalty Islands
H = 18 14 43.0
h = 124 km
Mag 6 3/4
Alberni
eP 18 27 40
Halifax
iP' 18 33 45.6 d
Ottawa
eP' 18 33 27 d
Penticton
eP 18 27 56
Resolute
eP' 18 33 08
e 18 44 00?
Seven Falls
eP' 18 33 33
Shawinigan Falls
eP' 18 33 31 c
Victoria
eP 18 27 42

JANUARY 5
U.S.C.G.S.
51.3N, 176.6W
Andreanof Islands
H = 18 37 48.3
h = 30 km
Penticton
eP 18 44 48

JANUARY 5
U.S.C.G.S.
8.2N, 83.1W
Costa Rica -
Panama border
region
H = 18 47 33.5
h = 82 km
Penticton
eP 18 56 32
Resolute
eP 18 58 19
Seven Falls
eP 18 55 04

JANUARY 5
U.S.C.G.S.
11.5N, 143.5E
Mariana Islands
region
H = 20 05 12.2
h = 25 km
Resolute
iP 20 17 57

JANUARY 6
U.S.C.G.S.
42.5N, 143.4E
Hokkaido Japan
H = 01 20 30.8
h = 21 km
Ottawa
eP 01 33 10 c
Penticton
eP 01 31 00
Resolute
iP 01 30 16 c

JANUARY 6
Penticton
eP 01 50 46

JANUARY 6
U.S.C.G.S.
51.8N, 176.2W
Andreanof Islands
H = 06 21 38.6
h = 48 km
Ottawa
eP 06 31 52
Penticton
eP 06 28 32
Resolute
eP 06 29 02
i 06 31 12
Seven Falls
eP 06 32 00
Shawinigan Falls
eP 06 31 57
Victoria
eP 06 28 17

JANUARY 6
U.S.C.G.S.
53.3N, 159.7E
Kamchatka
H = 07 05 47.7
h = 24 km
Ottawa
eP 07 17 04 c

DOMINION OBSERVATORIES

Penticton
eP 07 14 27
Resolute
eP 07 13 50 c
Seven Falls
eP 07 17 06 c
Shawinigan Falls
eP 07 17 06

JANUARY 6
U.S.C.G.S.
14.2N, 95.8W
Off south coast of Mexico
H = 10 48 22.9
h = 45 km
Ottawa
eP 10 55 19
Resolute
eP 10 58 34
Seven Falls
eP 10 55 50 d
Shawinigan Falls
eP 10 55 39

JANUARY 6
Resolute
eP 19 21 03?

JANUARY 7
U.S.C.G.S.
35.9N, 27.0E
Dodecanese Islands
H = 10 30 58.0
h = 127 km
Ottawa
eP 10 42 18 c
Resolute
iP 10 41 17 c
Seven Falls
iP 10 41 55 c
Shawinigan Falls
eP 10 42 04 c

JANUARY 7
Resolute
iP 13 38 35 c?

JANUARY 7
U.S.C.G.S.
37.7N, 21.1E
Near west coast of Greece
H = 15 52 54.0
h = 22 km
Resolute
iP 16 03 03 c?
Seven Falls
eP 16 03 33

JANUARY 7
U.S.C.G.S.
57.2S, 25.3W
Sandwich Islands
H = 18 16 51.2
h = 94 km
Penticton
eP' 18 36 04
Resolute
eP' 18 36 09
Victoria
eP' 18 36 08

JANUARY 7
H = 19 31 04
Mag 2.7
Penticton
iP_n 19 31 43.6
iS_n 19 32 16.4
D = 268 km

JANUARY 7
Resolute
eP 21 49 29

JANUARY 8
Resolute
eP 00 02 06

JANUARY 8
Resolute
eP 00 58 46?

JANUARY 8
U.S.C.G.S.
4.1N, 129.3E
Halmahera region
H = 01 15 25.6
h = 106 km
Resolute
iP 01 28 50

JANUARY 8
U.S.C.G.S.
3.5N, 129.6E
Halmahera region
H = 02 56 34.1
h = 117 km
Resolute
eP 03 09 57

JANUARY 8
Alberni
eP 07 43 13

JANUARY 8
Alberni
eP 07 56 57

JANUARY 8
U.S.C.G.S.
44.8N, 110.3W
Yellowstone National Park, Wyoming
H = 09 49 06.9
h = 27 km
Penticton
eP 09 51 02.1

SEISMOLOGICAL BULLETIN - 1961

JANUARY 8
H = 11 46 15
Mag 3.3
Penticton
eP_n 11 47 05.0
eS_n 11 47 48.0
D = 352 km

JANUARY 8
Resolute
eP 15 07 55?

JANUARY 8
Resolute
eP 19 50 38?

JANUARY 8
Resolute
eP 21 38 45

JANUARY 9
Penticton
eP 00 00 57
Resolute
eP 00 03 18?

JANUARY 9
U.S.C.G.S.
31.2N, 41.0W
North Atlantic Ocean
H = 03 08 37.7
h = 49 km
Halifax
eP 03 13 34?
Resolute
eP 03 17 36
Shawinigan Falls
eP 03 14 47

JANUARY 9
H = 08 40 48
Mag 2.6
Penticton
eP_n 08 41 32.1
eS_n 08 42 09.9
D = 310 km

JANUARY 9
U.S.C.G.S.
17.7N, 61.1W
Leeward Islands
H = 11 06 56.9
h = 31 km
Ottawa
eP 11 13 10
Resolute
eP 11 17 04
Shawinigan Falls
eP 11 13 12

JANUARY 9
U.S.C.G.S.
17.6N, 61.0W
Leeward Islands
H = 11 11 12.5
h = 52 km
Ottawa
eP 11 17 22
Resolute
eP 11 21 15?
Shawinigan Falls
eP 11 17 37

JANUARY 9
U.S.C.G.S.
17.8N, 61.0W
Leeward Islands
H = 19 22 05.6
h = 31 km
Ottawa
eP 19 28 16
Resolute
eP 19 32 10
Shawinigan Falls
eP 19 28 18

JANUARY 9
U.S.C.G.S.
17.7N, 61.6W
Leeward Islands
H = 19 24 59.5
h = 31 km
Ottawa
eP 19 31 09

JANUARY 9
Penticton
eP 21 20 08
Resolute
eP 21 19 23?
Victoria
eP 21 19 57

JANUARY 9
Resolute
eP 22 07 54?

JANUARY 9
U.S.C.G.S.
43.4N, 103.8E
Outer Mongolia
H = 22 16 32.3
h = 38 km
Resolute
eP 22 26 48

JANUARY 9
H = 23 24 56
Mag 2.0
Penticton
eP_n 23 25 23.5
eS_n 23 25 44.2
D = 169 km

DOMINION OBSERVATORIES

JANUARY 10
Resolute
eP 02 30 02

JANUARY 10
Resolute
eP 07 34 22

JANUARY 10
Resolute
eP 11 44 33

JANUARY 10
U.S.C.G.S.
49.9N, 156.2E
Kurile Islands region
H = 14 22 18.2
h = 29 km
Alberni
eP 14 31 05
Halifax
iP 14 34 25.5 c
Ottawa
iP 14 33 57 c
Penticton
iP 14 31 25 c
Resolute
iP 14 30 51 c
eS 14 37 41
i 14 41 28
Shawinigan Falls
iP 14 33 59 c
Victoria
eP 14 31 40

JANUARY 10
Penticton
eP 15 36 47.1

JANUARY 11
Resolute
eP 09 25 10

JANUARY 11
U.S.C.G.S.
52.3N, 170.7W
Fox Islands
H = 11 58 23.8
h = 42 km
Resolute
eP 12 05 29

JANUARY 11
U.S.C.G.S.
51.8N, 171.0W
Fox Islands
H = 11 59 55.0
h = 47 km
Halifax
eP 12 10 37 c
Ottawa
eP 12 09 52
Penticton
eP 12 06 22
Resolute
eP 12 07 04 c
PP? 12 08 31?
eS 12 12 58?
Shawinigan Falls
eP 12 09 57
Victoria
eP 12 06 06

JANUARY 11
Resolute
eP 13 39 34?

JANUARY 11
U.S.C.G.S.
54.7S, 162.9E
Macquarie Islands
H = 16 31 50.6
h = 27 km
Resolute
eP' 16 51 41?

JANUARY 11
U.S.C.G.S.
52.3S, 160.3E
Near Maquarie Islands
H = 21 37 05.1
h = 25 km
Resolute
eP' 21 56 38?

JANUARY 12
Resolute
eP 01 26 31

JANUARY 12
U.S.C.G.S.
57.4N, 155.9W
Alaska Peninsula
H = 14 13 27.7
h = 40 km
Penticton
eP 14 18 31
Resolute
iP 14 19 19 c
Victoria
eP 14 18 15

JANUARY 13
H = 00 44 36
Mag 2.0
Penticton
eP_1 00 44 56.3
eS_1 00 45 12.0
D = 129 km

JANUARY 13
Resolute
eP 07 57 21?

JANUARY 13
Resolute
eP 15 10 28?

SEISMOLOGICAL BULLETIN - 1961

JANUARY 13
U.S.C.G.S.
46.5S, 34.1E
Near Prince Edward Islands
H = 19 18 44.7
h = 60 km
Resolute
eP' 19 38 14
i 19 38 16

JANUARY 14
U.S.C.G.S.
53.4N, 172.4E
Near Islands
H = 02 26 30.6
h = 90 km
Resolute
eP 02 34 00

JANUARY 14
H = 06 44 26
Mag 2.7
Alberni
eP_1 06 44 50.8
eS_1 06 45 10.1
D = 158 km

JANUARY 14
U.S.C.G.S.
6.7N, 73.0W
Colombia
H = 16 17 25.5
Ottawa
iP 16 24 35 c
Penticton
eP 16 27 01
Resolute
iP 16 28 15 c
Shawinigan Falls
eP 16 24 45 c

JANUARY 14
U.S.C.G.S.
53.9N, 163.7W
Unimak Island region
H = 16 38 55.6
h = 41 km
Mag 5 3/4
Ottawa
eP 16 48 18
Penticton
eP 16 44 41
Resolute
eP 16 45 34
i 16 45 35
PP? 16 46 39?
eS 16 50 55
Shawinigan Falls
eP 16 48 23

JANUARY 15
U.S.C.G.S.
53.6S, 139.6E
South of Australia
H = 01 02 50.2
h = 25 km
Resolute
eP' 01 22 38?
e 01 30 06?

JANUARY 15
U.S.C.G.S.
30.0N, 140.4E
South of Honshu, Japan
H = 04 06 15.8
h = 285 km
Resolute
eP 04 17 01

JANUARY 15
U.S.C.G.S.
17.4N, 61.2W
Leeward Islands
H = 05 56 15.1
h = 60 km
Resolute
eP? 06 06 18?

JANUARY 15
U.S.C.G.S.
39.5N, 143.3E
Near east coast of Honshu, Japan
H = 11 53 10.9
h = 75 km
Resolute
eP 12 03 09

JANUARY 15
U.S.C.G.S.
20.4N, 169.5E
Loyalty Islands region
H = 16 44 44.8
h = 182 km
Ottawa
eP' 17 03 20
Penticton
eP 16 57 45
Resolute
eP' 17 03 00
e 17 14 00

JANUARY 15
Ottawa
eP 18 30 32

JANUARY 15
Resolute
eP 20 12 27?

DOMINION OBSERVATORIES

JANUARY 15
U.S.C.G.S.
5.2S, 110.0E
Java Sea
H = 20 34 14.3
h = 565 km
Resolute
eP' 20 51 45
Shawinigan Falls
eP' 20 52 39

JANUARY 16
U.S.C.G.S.
13.0N, 99.4W
Off coast of Mexico
H = 01 48 50.2
h = 25 km
Resolute
eP 01 59 17?

JANUARY 16
U.S.C.G.S.
18.2N, 102.4W
Near coast of Mexico
H = 03 58 52.5
h = 153 km
Penticton
eP 04 05 26
Resolute
eP 04 08 27
Shawinigan Falls
eP 04 06 10
P_cP 04 08 25

JANUARY 16
U.S.C.G.S.
36.0N, 141.1E
Near east coast of
Honshu, Japan
H = 07 20 18.6
h = 131 km
Mag 6 3/4
Alberni
eP 07 30 55
Ottawa
eP 07 33 19
Penticton
eP 07 31 13
Resolute
iP 07 30 39 c
eS 07 39 11
Shawinigan Falls
eP 07 33 22
Victoria
eP 07 31 02

JANUARY 16
Resolute
eP 07 59 07?

JANUARY 16
Resolute
eP 08 11 06

JANUARY 16
U.S.C.G.S.
35.0N, 141.3E
Near east coast of
Honshu, Japan
H = 08 48 17.7
h = 188 km
Penticton
eP 08 59 11
Resolute
iP 08 58 37 c ?

JANUARY 16
Resolute
eP 09 33 31?

JANUARY 16
U.S.C.G.S.
36.4N, 141.4E
Near east coast of
Honshu, Japan
H = 10 14 09.6
h = 131 km
Resolute
iP 10 24 28

JANUARY 16
Resolute
eP 10 33 07?

JANUARY 16
U.S.C.G.S.
35.7N, 140.6E
Near east coast of
Honshu, Japan
H = 11 19 46.5
h = 157 km
Penticton
eP 11 30 40
Resolute
iP 11 30 06c
eS 11 38 37?
Shawinigan Falls
eP 11 33 12
Victoria
eP 11 30 31

JANUARY 16
U.S.C.G.S.
35.2N, 141.0E
Near east coast of
Honshu, Japan
H = 11 41 06.2
h = 149 km
Resolute
eP 11 51 28 c

JANUARY 16
Resolute
eP 12 10 31

JANUARY 16
U.S.C.G.S.
36.2N, 141.7E
Honshu Japan
H = 12 12 34.4
h = 105 km
Mag 6 1/2
Ottawa
eP 12 25 37
Penticton
eP 12 23 29

Resolute
iP 12 22 55 c
eS 12 31 25
Shawinigan Falls
eP 12 25 47
Victoria
eP 12 23 19

JANUARY 16
Resolute
eP 12 41 47?

JANUARY 16
Resolute
eP 12 45 23

JANUARY 16
Resolute
eP 12 47 14

JANUARY 16
Resolute
eP 12 51 53?

JANUARY 16
Resolute
eP 12 55 12?

JANUARY 16
Resolute
eP 13 08 20?

JANUARY 16
U.S.C.G.S.
35.6N, 140.8E
Near east coast of
Honshu, Japan
H = 13 09 17.7
h = 144 km
Penticton
eP 13 20 13
Resolute
iP 13 19 39

JANUARY 16
Resolute
eP 14 10 48?

JANUARY 16
U.S.C.G.S.
36.3N, 141.2E
Near east coast of
Honshu, Japan
H = 14 04 05.3
h = 127 km
Resolute
iP 14 14 24
eS 14 22 56

JANUARY 16
U.S.C.G.S.
36.7N, 141.8E
Honshu, Japan
H = 14 44 15.1
h = 108 km
Resolute
eP 14 54 33

JANUARY 16
Resolute
eP 15 33 26

JANUARY 16
U.S.C.G.S.
36.5N, 141.2E
Near east coast of
Honshu, Japan
H = 15 26 21.2
h = 143 km
Resolute
eP 15 36 39

JANUARY 16
U.S.C.G.S.
36.4N, 140.6E
Near east coast of
Honshu, Japan
H = 15 41 23.3
h = 147 km
Penticton
eP 15 52 15
Resolute
iP 15 51 39 c
eS 16 00 09 ?
Shawinigan Falls
eP 15 54 21
Victoria
eP 15 52 05

JANUARY 16
Resolute
eP 16 20 21?

JANUARY 16
Resolute
eP 16 32 20

JANUARY 16
Resolute
eP 19 08 17?

JANUARY 16
Resolute
eP 21 22 19

JANUARY 17
U.S.C.G.S.
36.5N, 141.8E
Near east coast of
Honshu, Japan
H = 00 29 35.7
h = 100 km
Resolute
iP 00 39 57 c?

DOMINION OBSERVATORIES

JANUARY 17
Resolute
eP 00 51 27?

JANUARY 17
Resolute
eP 01 57 05?
Shawinigan Falls
eP 01 57 21

JANUARY 17
Resolute
eP? 02 46 14?

JANUARY 17
U.S.C.G.S.
58.8N, 135.9W
Southeastern Alaska
H = 04 23 36.3
h = 109 km
Resolute
eP 04 28 24
i 04 35 02

JANUARY 17
U.S.C.G.S.
36.2N, 141.6E
Honshu Japan
H = 06 41 36.8
h = 99 km
Penticton
eP 06 52 34
Resolute
iP 06 52 00 d

JANUARY 17
Resolute
eP 09 08 06?

JANUARY 17
51.8N, 125.5W
Northwest of
Mount Waddington
H = 11 27 50
Mag 3 to 3.5
Alberni
eP_n 11 28 32.7
eS_n 11 29 08.2
D = 290 km
Penticton
eP_n 11 29 08.6
eS_n 11 29 57.2
D = 503 km

JANUARY 17
Resolute
eP 13 54 39?

JANUARY 17
H = 15 31 39
Mag less than 2
Alberni
eP_1 15 32 03.1
eS_1 15 32 18.9
D = 130 km
Victoria
eP_1 15 31 40.5
eS_1 15 31 44.3
D = 31 km

JANUARY 17
Resolute
eP 18 14 25?

JANUARY 18
U.S.C.G.S.
36.1N, 141.4E
Near east coast of
Honshu, Japan
H = 07 12 46.0
h = 100 km
Resolute
eP 07 23 06

JANUARY 18
U.S.C.G.S.
34.9N, 142.2E
Near east coast of
Honshu, Japan
H = 07 27 46.6
h = 100 km
Resolute
eP 07 38 13

JANUARY 18
H = 09 14 25
Mag 2.7
Alberni
eP_1 09 14 45.4
eS_1 09 15 00.7
D = 125 km

JANUARY 18
U.S.C.G.S.
35.9N, 141.7E
Near east coast of
Honshu, Japan
H = 16 48 34.5
Resolute
eP 16 58 54

JANUARY 18
U.S.C.G.S.
61.7N, 150.4W
Southern Alaska
H = 19 55 12.8
h = 150 km
Ottawa
iP 20 03 15
Penticton
eP 19 59 54
Resolute
eP 20 00 10
Shawinigan Falls
eP 20 03 20

JANUARY 19
U.S.C.G.S.
14.4S, 166.7E
New Hebrides Islands
region
H = 04 21 16.0
h = 26 km
Ottawa
eP' 04 40 06
Resolute
eP' 04 39 40

JANUARY 19
U.S.C.G.S.
49.7N, 155.8E
Kurile Islands
H = 17 22 16.9
h = 31 km
Mag 5 1/4
Halifax
iP 17 34 26.5 d
Ottawa
eP 17 33 58 c
Penticton
eP 17 31 26
Resolute
iP 17 30 52 c
eS 17 37 43 ?
Shawinigan Falls
iP 17 33 55 c

JANUARY 19
Resolute
eP 21 00 10

JANUARY 19
Resolute
eP 21 15 47

JANUARY 19
Resolute
eP 23 13 15

JANUARY 20
Resolute
eP 00 55 18

JANUARY 20
U.S.C.G.S.
56.5N, 152.1W
Near Kodiak Island
Alaska
H = 00 56 59.7
h = 55 km
Resolute
eP 01 02 50

JANUARY 20
U.S.C.G.S.
20.3N, 108.6W
Off coast of Mexico
H = 01 51 56.6
h = 84 km
Resolute
eP 02 01 12?

JANUARY 20
U.S.C.G.S.
56.4N, 152.0W
Near Kodiak Island
Alaska
H = 05 23 16.1
h = 58 km
Resolute
eP 05 29 05

JANUARY 20
Canadian Arctic
H = 11 30 25.9
Mag 1.0
Resolute
iP_1 11 30 31
iS_1 11 30 37
D = 49 km

JANUARY 20
U.S.C.G.S.
56.5N, 152.2W
Near Kodiak Island
Alaska
H = 13 33 12.8
h = 44 km
Resolute
eP 13 39 15?

JANUARY 20
U.S.C.G.S.
56.4N, 152.3W
Kodiak Island
H = 17 09 15.7
h = 46 km
Mag 6 3/4
Alberni
eP 17 13 26
Ottawa
eP 17 17 45
Resolute
eP 17 15 08
eS 17 19 53?
Shawinigan Falls
eP 17 17 52
Victoria
eP 17 12 39

JANUARY 20
Resolute
eP 19 49 17?

JANUARY 20
U.S.C.G.S.
56.8N, 152.1W
Near Kodiak Island
H = 21 31 08.7
h = 43 km
Resolute
eP 21 36 57

DOMINION OBSERVATORIES

JANUARY 20
H = 21 40 27
Mag 2.0
Penticton
eP_1 21 40 50.3
eS_1 21 41 08.2
D = 146 km

JANUARY 20
U.S.C.G.S.
56.5N, 153.1W
Near Kodiak Island
H = 21 37 23.4
h = 14 km
Resolute
eP 21 43 19?

JANUARY 20
U.S.C.G.S.
38.1N, 141.2E
Near east coast of Honshu, Japan
H = 22 34 51.1
h = 52 km
Resolute
eP 22 45 07

JANUARY 21
Resolute
eP 05 40 01

JANUARY 21
Resolute
eP 08 04 55

JANUARY 21
H = 09 01 34
Mag 2.1
Penticton
eP_n 09 02 03.5
eS_n 09 02 25.9
D = 183 km

JANUARY 21
U.S.C.G.S.
56.3N, 152.1W
Near Kodiak Island
H = 13 19 28.2
h = 63 km
Resolute
eP 13 25 16?

JANUARY 21
U.S.C.G.S.
8.6N, 82.8W
Costa Rica-Panama border
H = 14 47 57.0
h = 40 km
Penticton
eP 14 56 59
Resolute
eP 14 58 43

JANUARY 21
U.S.C.G.S.
36.3N, 141.7E
Honshu Japan
H = 17 42 56.2
h = 25 km
Resolute
eP 17 53 26

JANUARY 21
Ottawa
eP 22 11 39
Resolute
eP 22 15 04
Shawinigan Falls
eP 22 11 57

JANUARY 22
U.S.C.G.S.
11.9S, 166.2E
Santa Cruz Islands
H = 03 24 04.5
h = 25 km
Mag 7
Halifax
eP' 03 43 12 d
Penticton
eP 03 37 10
Resolute
eP 03 38 16?
Victoria
eP 03 36 55

JANUARY 22
U.S.C.G.S.
28.5S, 174.8W
Kermadec Islands
H = 16 09 37.3
h = 68 km
Resolute
eP' 16 28 04?

JANUARY 22
Resolute
eP 18 19 15

JANUARY 22
U.S.C.G.S.
10.9N, 124.6E
Philippine Islands
H = 19 22 51.0
h = 185 km
Resolute
iP 19 35 39 c?

JANUARY 23
U.S.C.G.S.
42.9N, 145.3E
Hokkaido Japan
H = 04 48 21.4
h = 46 km
Ottawa
eP 05 00 53
Resolute
iP 04 57 58
Shawinigan Falls
eP 05 00 53 d

JANUARY 24
Resolute
eP 00 13 34

JANUARY 24
U.S.C.G.S.
15.6S, 167.6E
New Hebrides Islands
H = 07 25 03.5
h = 198 km
Ottawa
iP' 07 43 33 d
Penticton
eP 07 37 44
Resolute
eP' 07 43 33?
Shawinigan Falls
eP' 07 43 37

JANUARY 24
U.S.C.G.S.
61.1S, 152.1E
Antarctic Ocean
H = 08 02 28.7
h = 25 km
Resolute
eP_1' 08 22 25
Shawinigan Falls
eP_1' 08 22 20

JANUARY 24
H = 11 54 50
Mag 1.6
Victoria
eP_1 11 55 02.8
eS_1 11 55 12.8
D = 82 km

JANUARY 24
H = 17 13 00
Mag 2.0
Penticton
eP_n 17 13 39.5
eS_n 17 14 22.3
D = 268 km

JANUARY 24
U.S.C.G.S.
8.3N, 82.9W
Panama-Costa Rica border
H = 23 12 49.0
h = 78 km
Ottawa
eP 23 19 57 d
Resolute
eP 23 23 33 c?
Shawinigan Falls
eP 23 20 11

JANUARY 25
U.S.C.G.S.
14.1S, 165.4E
New Hebrides Islands
H = 05 21 42.2
h = 195 km
Ottawa
eP' 05 40 15
Penticton
eP 05 34 29
Shawinigan Falls
eP' 05 40 19
Victoria
eP 05 34 17

JANUARY 25
H = 08 45 12
Mag 2.2
Penticton
eP_n 08 45 54.6
eS_n 08 46 30.4
D = 293 km

JANUARY 25
Penticton
eP 11 24 34

JANUARY 25
H = 15 43 36
Mag 1.3
Penticton
eP_1 15 43 57.4
eS_1 15 44 13.9
D = 135 km

JANUARY 25
U.S.C.G.S.
49.8N, 156.0E
Kurile Islands
H = 19 04 22.8
h = 98 km
Ottawa
eP 19 15 57
Penticton
eP 19 13 25
Resolute
iP 19 12 50 c
Shawinigan Falls
eP 19 15 58
Victoria
eP 19 13 12

DOMINION OBSERVATORIES

JANUARY 26
U.S.C.G.S.
15.3N, 93.7E
Southern Burma
H = 01 47 01.4
h = 67 km
Resolute
eP 01 59 58
e 02 11 38?

JANUARY 26
48.8N, 125.0W
Barkley Sound
H = 04 21 57
Mag 2.3
Alberni
eP_1 04 22 04.8
eS_1 04 22 16.9
D = 50 km
Victoria
eP_1 04 22 16.9
eS_1 04 22 35.8
D = 155 km

JANUARY 26
Resolute
eP 07 58 09?

JANUARY 26
Resolute
eP 11 01 51

JANUARY 26
U.S.C.G.S.
21.4S, 169.5E
Loyalty Islands
H = 16 13 25.1
h = 119 km
Mag 6 1/2
Halifax
e 16 35 31
Penticton
eP 16 26 36
Resolute
eP' 16 31 35?
Shawinigan Falls
eP' 16 32 17
Victoria
eP 16 26 19

JANUARY 26
U.S.C.G.S.
12.2S, 78.1W
Near coast of Peru
H = 17 45 42.9
h = 60 km
Resolute
eP 17 58 30?
Shawinigan Falls
eP 17 55 44

JANUARY 26
U.S.C.G.S.
20.7S, 169.5E
Loyalty Islands
H = 18 48 56.9
h = 106 km
Penticton
eP 19 02 16
Resolute
eP' 19 07 21
e 19 18 20?
Shawinigan Falls
eP' 19 07 46
Victoria
eP 19 01 55

JANUARY 26
Penticton
eP 21 42 13

JANUARY 27
H = 00 47 35
Mag 1.8
Penticton
eP_1 00 47 56
eS_1 00 48 12
D = 131 km

JANUARY 27
Resolute
eP 09 12 26

JANUARY 27
Penticton
eP 10 57 54

JANUARY 27
Penticton
eP 15 24 06

JANUARY 27
Resolute
eP 16 04 23

JANUARY 27
U.S.C.G.S.
45.4N, 149.3E
Kurile Islands
H = 20 07 00.4
h = 60 km
Resolute
eP 20 16 14

JANUARY 27
Resolute
eP 22 10 53?

JANUARY 28
Penticton
eP 02 04 24
Victoria
eP 02 03 56

JANUARY 28
U.S.C.G.S.
13.6S, 76.6W
Near coast of Peru
H = 03 24 39.2
h = 35 km
Mag 5
Halifax
eP 03 34 38
Ottawa
eP 03 34 36
Penticton
eP 03 36 13
Resolute
iP 03 37 32 c
Victoria
eP 03 36 18

JANUARY 28
Resolute
eP 05 30 59

JANUARY 28
U.S.C.G.S.
39.3N, 22.0E
Northern Greece
H = 07 18 16.2
h = 89 km
Ottawa
iP 07 29 11 c
Penticton
eP 07 30 48
Resolute
eP 07 28 11 d?

JANUARY 28
U.S.C.G.S.
35.5N, 118.1W
California
H = 08 12 45.3
h = 21 km
Mag 5 1/4
Penticton
eP 08 16 04
Resolute
eP 08 20 26 d
Victoria
eP 08 16 06

JANUARY 28
Penticton
eP 10 29 45

JANUARY 28
Resolute
eP 11 30 34

JANUARY 28
47.9N, 122.9W
Eastern Puget Sound
Washington, U.S.A.
H = 11 52 18
Mag 2.8
Alberni
eP_n 11 52 51.5
eS_n 11 53 14.9
D = 216 km
Penticton
eP_n 11 53 00.5
eS_n 11 53 33.9
D = 290 km
Victoria
eP_1 11 52 30.8
eS_1 11 52 40.2
D = 79 km

JANUARY 28
U.S.C.G.S.
45.0S, 105.8W
South Pacific Ocean
H = 14 06 21.0
h = 144 km
Penticton
eP 14 19 34
e 14 34 56
Resolute
eP' 14 25 00?
Victoria
eP 14 19 29

JANUARY 29
46°23'N, 66°56'W
Near Napadogan,
New Brunswick
H = 00 49 39.2
h = 24 km
Mag 3.8
Halifax
iP_n 00 50 24.5
iP_1 00 50 32.1
i 00 50 52.5
iS_n 00 50 56.9
S_1 00 51 11.8
D = 326 km
Montreal
iP_n 00 50 49.3
i 00 51 35.0
iS_n 00 51 42.7
i 00 51 56.2
iS_1 00 52 09.5
D = 530 km
Ottawa
eP_n 00 51 08.7
eS_n 00 52 14.2
iS_1 00 52 52.7
D = 690 km
Seven Falls
eP_n 00 50 17.1?
i 00 50 43.6?
S_n 00 50 49.3?
S_1 00 51 01.6?
D = 310 km
Shawinigan Falls
eP_n 00 50 39.1
eS_n 00 51 23.4
S_1 00 51 43.2
D = 448 km

JANUARY 29
Resolute
eP 03 24 36?

DOMINION OBSERVATORIES

JANUARY 29
U.S.C.G.S.
51.8N, 175.9W
Andreanof Islands
H = 13 23 54.7
h = 41 km
Alberni
eP 13 30 14
Penticton
eP 13 30 49
Resolute
eP 13 31 17
Shawinigan Falls
eP 13 34 18
Victoria
eP 13 30 32

JANUARY 30
H = 08 17 22
Mag 2.0
Penticton
eP_n 08 18 01.4
eS_n 08 18 33.9
D = 266 km

JANUARY 30
U.S.C.G.S.
65.2N, 149.9W
Central Alaska
H = 12 12 39.7
h = 34 km
Mag 5 1/2
Alberni
eP 12 17 28
Halifax
eP 12 21 27
Ottawa
eP 12 20 43 d
Penticton
eP 12 17 41
Resolute
iP 12 17 13
i? 12 20 55
eS 12 21 06
Shawinigan Falls
eP 12 20 46
Victoria
eP 12 17 34

JANUARY 30
Victoria
eP 12 24 06

JANUARY 30
Resolute
eP 22 54 11

JANUARY 30
Resolute
eP 23 04 20?

JANUARY 31
Resolute
eP 00 36 16

JANUARY 31
U.S.C.G.S.
55.8N, 153.9W
Near Kodiak Island
H = 00 48 36.5
h = 26 km
Mag 6 1/2
Alberni
eP 00 53 00
Halifax
eP 00 58 06
Ottawa
eP 00 57 19
Penticton
eP 00 53 25
Resolute
iP 00 54 37 c
iS 00 59 28
Shawinigan Falls
eP 00 57 22
Victoria
eP 00 53 13

JANUARY 31
Resolute
iP 02 09 35

JANUARY 31
Canadian Arctic
H = 04 09 00.5
Mag 1.7
Resolute
P_1 04 09 18.0
S_1 04 09 31.3
D = 109 km

JANUARY 31
Resolute
eP 07 11 13

JANUARY 31
Resolute
eP 13 47 04

JANUARY 31
U.S.C.G.S.
51.4N, 178.4W
Andreanof Islands
H = 18 32 19.5
h = 53 km
Penticton
eP 18 39 26
Resolute
eP 18 39 50
e 18 41 56
e 18 45 40

JANUARY 31
Resolute
eP 21 47 17?

JANUARY 31
Penticton
eP 22 38 26
Resolute
eP 22 39 00?

FEBRUARY 1
Penticton
eP 00 21 21

FEBRUARY 1
Alberni
iP_1 00 31 51.9
iS_1 00 31 58.7
D = 56 km

FEBRUARY 1
U.S.C.G.S.
50.2N, 129.7W
Off coast of Vancouver Island
H = 00 36 00.3
h = 42 km
Mag 3.9
Alberni
eP_n 00 36 51.9
D = 368 km
Penticton
eP_n 00 37 37.6
D = 745 km
Resolute
eP 00 41 56
eS 00 46 50
Victoria
eP_n 00 37 08.0
D = 500 km

FEBRUARY 1
Resolute
eP 02 59 06 c ?

FEBRUARY 1
U.S.C.G.S.
11.9N, 143.7E
Mariana Islands region
H = 04 53 44.4
h = 95 km
Penticton
eP 05 06 16
Resolute
eP 05 06 21 c

FEBRUARY 1
Alberni
eP 07 48 34
Penticton
eP 07 49 17

FEBRUARY 1
Victoria
eP 07 54 52

FEBRUARY 1
Penticton
eP 08 59 49

FEBRUARY 1
Canadian Arctic
H = 10 43 55.5
h = 29 km
Mag 3.2
Resolute
iP_n 10 44 28.2
iP_1 10 44 33.4
iS_n 10 44 53.5
iS_1 10 45 02.0
D = 234 km

FEBRUARY 1
U.S.C.G.S.
37.4N, 138.4E
Near coast of Honshu Japan
H = 18 39 03.6
h = 38 km
Resolute
iP 18 49 27

FEBRUARY 1
U.S.C.G.S.
18.0S, 178.4W
Fiji Islands
H = 20 09 13.8
h = 599 km
Penticton
eP 20 20 51

FEBRUARY 1
Alberni
eP 20 32 00
Penticton
eP 20 32 47

FEBRUARY 2
U.S.C.G.S.
37.2N, 118.6W
California
H = 00 04 16.3
h = 25 km
Mag 5
Penticton
eP 00 07 13
Resolute
eP 00 11 43?

FEBRUARY 2
H = 00 44 42
Mag 1.4
Penticton
eP_1 00 45 04.8
eS_1 00 45 22.4
D = 144 km

FEBRUARY 2
U.S.C.G.S.
7.3N, 127.3E
Mindanao, Philippine Islands
H = 00 42 07.2
h = 157 km
Resolute
eP 00 55 11?

FEBRUARY 2
Penticton
eP 01 37 59

DOMINION OBSERVATORIES

FEBRUARY 2
46.8N, 121.5W
Near Mt. Ranier, Washington, U.S.A.
H = 05 50 16
Mag 3.1
Alberni
eP_n 05 51 08.4
eS_n 05 51 44.2
D = 375 km
Penticton
eP_n 05 51 00.6
eS_n 05 52 06.4
D = 311 km
Victoria
eP_n 05 50 49.7
eS_n 05 51 16.8
D = 222 km

FEBRUARY 2
Resolute
eP 06 06 03?

FEBRUARY 2
H = 11 04 57
Mag 1.9
Alberni
iP_1 11 05 06.0
iS_1 11 05 12.8
D = 56 km
Victoria
iP_1 11 05 22.2
D = 158 km

FEBRUARY 2
Penticton
eP 11 10 49

FEBRUARY 2
U.S.C.G.S.
13.6N, 145.3E
Mariana Islands
H = 11 13 31.8
h = 131 km
Resolute
iP 11 25 53 c?

FEBRUARY 2
H = 17 07 55
Mag 2.4
Penticton
eP_n 17 08 35.0
eS_n 17 09 08.4
D = 273 km

FEBRUARY 2
Resolute
eP 22 23 40

FEBRUARY 3
Victoria
iP 01 25 14

FEBRUARY 3
Resolute
eP 02 35 49

FEBRUARY 3
U.S.C.G.S.
36.9S, 176.8E
Off north coast of New Zealand
H = 12 33 22.8
h = 300 km
Penticton
eP 12 47 48
Resolute
eP' 12 51 48

FEBRUARY 3
U.S.C.G.S.
36.4N, 141.0E
Honshu, Japan
H = 13 31 44.7
h = 103 km
Resolute
eP 13 42 06c

FEBRUARY 3
Resolute
eP 14 18 26?

FEBRUARY 3
U.S.C.G.S.
23.4S, 67.3W
Argentina
H = 14 25 41.7
h = 181 km
Shawinigan Falls
eP 14 36 38

FEBRUARY 3
Resolute
eP 23 52 53

FEBRUARY 4
U.S.C.G.S.
18.3S, 69.3W
Chile-Bolivia border
H = 01 13 05.0
h = 178 km
Halifax
eP 01 23 17c
Ottawa
eP 01 23 22
Penticton
eP 01 25 04
Resolute
eP 01 26 07d?
Shawinigan Falls
eP 01 23 29

FEBRUARY 4
Halifax
eP 06 56 12 c
Ottawa
eP 06 55 36
Penticton
eP 06 56 59
Resolute
eP 06 59 06
Shawinigan Falls
eP 06 55 53
Victoria
eP 06 57 08

SEISMOLOGICAL BULLETIN - 1961

FEBRUARY 4
U.S.C.G.S.
24.7N, 95.3E
Northern Burma
H = 08 51 48.9
h = 162 km
Penticton
eP 09 05 54
Resolute
eP 09 03 46c
i 09 04 20
eS 09 13 40

FEBRUARY 4
Resolute
eP 10 24 43

FEBRUARY 4
Ottawa
eP 12 53 10
Shawinigan Falls
eP 12 53 38

FEBRUARY 4
U.S.C.G.S.
50.3N, 156.4E
Kamchatka
H = 12 49 37.7
h = 161 km
Penticton
eP 12 58 28
Resolute
eP 12 57 54
Shawinigan Falls
eP 13 01 02

FEBRUARY 4
Resolute
eP 15 23 29?

FEBRUARY 4
Halifax
iP 15 36 28 c
Ottawa
eP 15 36 30
Penticton
eP 15 37 40

FEBRUARY 4
U.S.C.G.S.
17.0S, 176.8W
Fiji Islands region
H = 15 29 11.7
h = 57 km
Resolute
eP? 15 43 07?

FEBRUARY 4
Resolute
eP? 15 54 05

FEBRUARY 4
Penticton
eP 16 04 43
Resolute
eP? 16 04 32?

FEBRUARY 4
U.S.C.G.S.
11.8N, 87.5W
Near coast of Nicaragua
H = 16 11 23.6
h = 79 km
Resolute
eP 16 21 46

FEBRUARY 4
Penticton
eP 17 43 01

FEBRUARY 4
U.S.C.G.S.
24.0N, 122.7E
Off coast of Formosa
H = 19 09 12.9
h = 14 km
Alberni
eP 19 22 54
Penticton
eP 19 22 07
Resolute
eP 19 21 15c
eS 19 31 05?

Victoria
eP 19 22 02

FEBRUARY 5
Penticton
eP 07 36 35

FEBRUARY 5
Penticton
eP 07 47 45

FEBRUARY 5
Resolute
eP 10 30 14?

FEBRUARY 5
Resolute
eP 11 31 12

FEBRUARY 5
Penticton
eP 15 32 40

FEBRUARY 5
U.S.C.G.S.
8.0N, 82.8W
South of Panama
H = 15 38 34.0
h = 49 km
Ottawa
eP 15 45 49 d
Resolute
eP 15 49 23
iP 15 49 24 d
eS 15 58 22 ?
Shawinigan Falls
eP 15 46 03

DOMINION OBSERVATORIES

FEBRUARY 5
U.S.C.G.S.
38.4S, 78.2E
Indian Ocean
H = 17 50 51.1
h = 25 km
Resolute
eP' 18 10 26

FEBRUARY 5
Resolute
eP 19 33 25?

FEBRUARY 5
Resolute
eP? 19 38 48?

FEBRUARY 5
Resolute
eP? 19 46 40

FEBRUARY 5
Resolute
eP? 23 12 57?

FEBRUARY 6
U.S.C.G.S.
14.1N, 145.5E
Mariana Islands
H = 04 06 08.9
h = 22 km
Resolute
eP 04 18 40

FEBRUARY 6
47.5N, 126.9W
Off west coast of
Washington, U.S.A.
H = 05 19 23
Mag 3.3
Alberni
iP_n 05 19 58.1
iS_n 05 20 27.2
D = 238 km
Penticton
eP_n 05 20 41.2
eS_n 05 21 42.0
D = 582 km
Victoria
eP_n 05 20 15.0
eS_n 05 21 00.1
D = 269 km

FEBRUARY 6
Resolute
eP 05 46 38?

FEBRUARY 6
U.S.C.G.S.
19.2S, 68.6W
Chile-Bolivia border
H = 10 30 07.2
h = 181 km
Halifax
iP 10 40 24 d
Ottawa
iP 10 40 30 d
Penticton
eP 10 42 21
Resolute
eP 10 43 15
Shawinigan Falls
eP 10 40 36
Victoria
eP 10 42 19

FEBRUARY 6
Resolute
eP 11 20 03

FEBRUARY 6
U.S.C.G.S.
51.6N, 174.8W
Andreanof Islands
H = 12 12 26.0
h = 77 km
Halifax
eP 12 23 16 d
Ottawa
iP 12 22 34 c
Penticton
eP 12 19 21
Resolute
eP 12 19 44
Shawinigan Falls
eP 12 22 39
Victoria
eP 12 18 56

FEBRUARY 6
Resolute
eP 12 21 57

FEBRUARY 6
Resolute
eP 12 33 30

FEBRUARY 6
Resolute
eP 14 57 35?

FEBRUARY 6
U.S.C.G.S.
44.8N, 149.1E
Kurile Islands
H = 18 15 21.6
h = 25 km
Halifax
iP 18 28 03 d
Ottawa
eP 18 27 39
Penticton
eP 18 25 18
Resolute
iP 18 24 42 c
Shawinigan Falls
eP 18 27 41
Victoria
eP 18 25 07

FEBRUARY 6
U.S.C.G.S.
4.8S, 154.2E
Solomon Islands region
H = 19 29 33.2
h = 470 km
Resolute
eP 19 42 31

SEISMOLOGICAL BULLETIN - 1961

FEBRUARY 6
Resolute
eP 20 38 09?

FEBRUARY 6
Resolute
eP 20 58 59

FEBRUARY 6
U.S.C.G.S.
6.8S, 155.3E
Solomon Islands
H = 21 45 13.5
h = 59 km
Halifax
iP' 22 04 17 d
Ottawa
eP' 22 04 02
Penticton
eP 21 58 18
Resolute
iP 21 59 02 c?
Shawinigan Falls
eP' 22 04 05 c
Victoria
eP 21 58 08

FEBRUARY 6
Resolute
eP 22 15 08?

FEBRUARY 7
Resolute
eP 03 10 48?

FEBRUARY 7
Resolute
iP 03 31 17
i 03 31 35

FEBRUARY 7
Resolute
iP 04 28 51
i 04 28 57

FEBRUARY 7
U.S.C.G.S.
4.1S, 103.3E
Sumatra
H = 05 11 45.0
h = 82 km
Resolute
eP' 05 30 07

FEBRUARY 7
U.S.C.G.S.
48.8N, 129.3W
Off coast of
Vancouver Island
H = 06 08 31.2
h = 46 km
Mag 3
Alberni
eP 06 09 11
Victoria
eP 06 09 28

FEBRUARY 7
U.S.C.G.S.
33.1N, 137.6E
Off coast of
Honshu, Japan
H = 14 36 53.5
h = 25 km
Resolute
eP 14 47 40

FEBRUARY 7
U.S.C.G.S.
23.5N, 121.0E
Near coast of
Formosa
H = 15 28 33.3
h = 38 km
Resolute
eP 15 40 37

FEBRUARY 7
U.S.C.G.S.
43.9N, 147.1E
Kurile Islands
H = 21 01 37.3
h = 36 km
Ottawa
eP 21 14 03
Penticton
eP 21 11 56
Resolute
iP 21 11 06

FEBRUARY 7
U.S.C.G.S.
49.3N, 156.3E
Kurile Islands
H = 22 09 41.5
h = 60 km
Resolute
eP 22 18 14 c

FEBRUARY 7
U.S.C.G.S.
51.4N, 177.2W
Andreanof Islands
H = 23 27 10.8
h = 15 km
Ottawa
eP 23 37 34
Penticton
eP 23 34 15
Resolute
eP 23 34 42
Shawinigan Falls
eP 23 37 39

FEBRUARY 8
U.S.C.G.S.
15.3S, 167.5E
New Hebrides Islands
H = 02 36 40.5
h = 162 km
Ottawa
eP' 02 55 14

Penticton
eP 02 49 30
Resolute
eP' 02 54 50
e 03 06 25?
Shawinigan Falls
eP' 02 55 18

FEBRUARY 8
U.S.C.G.S.
10.6S, 71.0W
Brazil-Peru border
H = 08 04 13.8
h = 699 km
Mag 5 3/4
Halifax
eP 08 12 52.5 d
Ottawa
eP 08 12 56 c
Resolute
iP 08 15 53 d
eS 08 25 36
Shawinigan Falls
eP 08 13 03

FEBRUARY 8
Penticton
eP 08 29 46

FEBRUARY 8
Resolute
eP 08 41 12?

FEBRUARY 8
U.S.C.G.S.
18.8S, 174.9W
Tonga Islands
H = 11 59 52.3
h = 76 km
Penticton
eP 12 12 18

FEBRUARY 8
Resolute
eP 13 04 46?

FEBRUARY 8
H = 16 34 14
Mag 2.3
Alberni
iP_1 16 34 25.8
eS_1 16 35 04.5
D = 85 km
Victoria
iP_1 16 34 18.0
iS_1 16 34 22.4
D = 36 km

FEBRUARY 8
Resolute
eP 17 49 41?

FEBRUARY 8
U.S.C.G.S.
20.4S, 178.1W
Tonga Islands
H = 17 50 45.2
h = 543 km
Penticton
eP 18 02 35
Resolute
eP' 18 08 11?

FEBRUARY 8
Resolute
eP 18 37 21?

FEBRUARY 9
U.S.C.G.S.
28.2S, 177.4W
Kermadec Islands
H = 02 08 15.9
h = 37 km
Mag 6 3/4
Halifax
eP' 02 27 09 c
Ottawa
eP' 02 26 59
Penticton
eP 02 21 28

Resolute
eP 02 23 11?
eP' 02 26 54
PKKP 02 37 30
Shawinigan Falls
eP' 02 27 04 c
PKKP 02 37 17
Victoria
iP 02 21 17

FEBRUARY 9
Resolute
eP 03 00 05?

FEBRUARY 9
U.S.C.G.S.
38.9S, 72.6W
Near coast of Chile
H = 13 14 45.6
h = 25 km
Shawinigan Falls
eP 13 27 21

FEBRUARY 9
U.S.C.G.S.
9.9S, 111.3E
Off coast of Java
H = 20 21 20.1
h = 73 km
Halifax
iP' 20 40 55 c

FEBRUARY 9
Resolute
eP 20 45 15

FEBRUARY 10
Resolute
eP 01 27 27?

FEBRUARY 10
Resolute
eP 03 30 56

FEBRUARY 10
Resolute
eP 03 52 11

FEBRUARY 10
Resolute
eP 04 51 26

FEBRUARY 10
Penticton
eP 09 00 43

FEBRUARY 10
Resolute
eP 09 56 42

FEBRUARY 10
Resolute
eP 10 56 04

FEBRUARY 10
Resolute
eP 12 20 53

FEBRUARY 10
U.S.C.G.S.
3.5N, 126.1E
East of Celebes Sea
H = 16 58 18.4
h = 25 km
Resolute
eP 17 11 55

FEBRUARY 11
Resolute
eP 00 29 54?

FEBRUARY 11
H = 01 02 26
Mag 2.1
Penticton
eP_n 01 02 54.2
eS_n 01 03 16.0
D = 177 km

FEBRUARY 11
Penticton
eP 01 14 32

FEBRUARY 11
U.S.C.G.S.
22.9N, 144.2E
Mariana Islands
H = 02 34 37.2
h = 60 km
Resolute
eP 02 46 19

FEBRUARY 11
Penticton
eP 03 58 29
Resolute
eP 03 59 05

FEBRUARY 11
U.S.C.G.S.
28.8N, 139.5E
North of Bonin Islands
H = 06 12 23.2
h = 358 km
Ottawa
e 06 27 22
Penticton
eP 06 23 31
Resolute
eP 06 23 06

FEBRUARY 11
U.S.C.G.S.
23.3S, 65.9W
Argentina
H = 11 27 59.4
h ≈ 195 km
Ottawa
eP 11 38 49
Penticton
eP 11 40 24
Shawinigan Falls
eP 11 38 55

FEBRUARY 11
U.S.C.G.S.
5.2N, 126.3E
Mindanao Philippine Islands
H = 12 23 55.8
h = 200 km
Ottawa
eP' 12 42 41 d
Resolute
eP 12 37 07
Shawinigan Falls
eP' 12 42 41

FEBRUARY 11
H = 16 44 53
Mag 1.2
Penticton
eP_1 16 45 16.7
eS_1 16 45 35.0
D = 150 km

FEBRUARY 11
U.S.C.G.S.
19.8S, 176.2W
Fiji Islands
H = 16 46 24.6
h = 261 km
Penticton
eP 16 58 36

FEBRUARY 11
Resolute
eP 20 20 14 d

DOMINION OBSERVATORIES

FEBRUARY 11
Resolute
eP 21 16 03?

FEBRUARY 11
U.S.C.G.S.
28.2S, 177.5W
Kermadec Islands
H = 21 01 06.4
h = 41 km
Halifax
iP' 21 20 06 d
Ottawa
eP' 21 19 49 d
PKKP 21 30 11
Penticton
eP 21 14 18
Resolute
eP' 21 19 43
PKKP 21 30 21
Shawinigan Falls
eP' 21 19 54
PKKP 21 30 07

FEBRUARY 11
Penticton
eP 21 39 35

FEBRUARY 11
U.S.C.G.S.
24.2S, 66.6W
Argentina
H = 22 44 04.8
h = 100 km
Penticton
eP 22 56 54

FEBRUARY 12
U.S.C.G.S.
34.8S, 106.9W
Easter Island
region
H = 01 19 21.8
h = 100 km
Penticton
eP 01 31 52

FEBRUARY 12
H = 01 58 58
Mag 2.5
Penticton
eP_n 01 59 44.7
eS_n 02 00 24.6
D = 327 km

FEBRUARY 12
Penticton
eP 02 54 34.1

FEBRUARY 12
U.S.C.G.S.
15.0S, 175.2W
Samoa Islands region
H = 12 09 22.0
h = 281 km
Penticton
eP 12 21 08

FEBRUARY 12
U.S.C.G.S.
13.1S, 171.8E
New Hebrides
H = 12 57 15.3
h = 598 km
Ottawa
eP' 13 14 52
e 13 17 31
Penticton
eP 13 09 00
Shawinigan Falls
eP' 13 14 56
e 13 17 35
Victoria
eP 13 08 48

FEBRUARY 12
U.S.C.G.S.
59.4N, 150.1W
Alaska
H = 13 54 30.6
h = 79 km
Penticton
eP 13 58 56

Resolute
iP 13 59 47 c?

FEBRUARY 12
Resolute
eP 16 33 26

FEBRUARY 12
Resolute
eP 16 36 55?

FEBRUARY 12
Alberni
iP 21 29 30

FEBRUARY 12
U.S.C.G.S.
43.7N, 147.6E
Kurile Islands
H = 21 53 43.5
h = 45 km
Mag 6 3/4
Halifax
eP 22 06 32 d
Ottawa
eP 22 06 08
Penticton
eP 22 03 39
Resolute
eP? 22 03 10
iP 22 03 11
iS 22 10 49
Shawinigan Falls
eP 22 06 08
Victoria
eP 22 03 39

FEBRUARY 12
Resolute
eP 22 28 49

FEBRUARY 12
Resolute
eP 22 31 47

FEBRUARY 12
Resolute
eP 22 37 03

SEISMOLOGICAL BULLETIN - 1961

FEBRUARY 12
U.S.C.G.S.
43.7N, 148.0E
Kurile Islands
H = 22 51 27.7
h = 17 km
Resolute
iP 23 00 58

FEBRUARY 12
Penticton
eP 23 03 46
Resolute
eP 23 03 46

FEBRUARY 12
Resolute
iP 23 22 33

FEBRUARY 12
U.S.C.G.S.
44.0N, 147.7E
Kurile Islands
H = 23 26 34.5
h = 23 km
Halifax
eP 23 39 22.5c
Ottawa
eP 23 38 58
Penticton
eP 23 36 38
Resolute
iP 23 36 02
Shawinigan Falls
eP 23 38 59
Victoria
eP 23 36 29

FEBRUARY 13
Penticton
eP 00 11 07

FEBRUARY 13
Penticton
eP 00 36 31

FEBRUARY 13
Penticton
eP_1 00 37 31.9
eS_1 00 37 49.3
D = 142 km

FEBRUARY 13
U.S.C.G.S.
43.5N, 148.2E
Kurile Islands
H = 00 31 51.1
h = 25 km
Resolute
iP 00 41 23

FEBRUARY 13
Resolute
eP 01 37 21

FEBRUARY 13
H = 02 04 33
Mag 1.9
Penticton
eP_n 02 05 15.9
eS_n 02 05 51.9
D = 295 km

FEBRUARY 13
U.S.C.G.S.
43.7N, 147.8E
Kurile Islands
H = 02 30 01.7
h = 18 km
Resolute
eP 02 39 33

FEBRUARY 13
U.S.C.G.S.
43.5N, 148.1E
Kurile Islands
H = 02 31 19.4
h = 60 km
Resolute
eP 02 40 45

FEBRUARY 13
U.S.C.G.S.
43.8N, 147.4E
Kurile Islands
H = 04 43 24.6
h = 46 km
Resolute
eP 04 52 52

FEBRUARY 13
Resolute
eP 05 44 30?

FEBRUARY 13
Resolute
iP 06 22 00

FEBRUARY 13
U.S.C.G.S.
17.0S, 173.7W
Tonga Islands region
H = 06 45 25.0
h = 43 km
Mag 5 3/4
Resolute
eP 06 59 27?

FEBRUARY 13
Penticton
eP 07 57 40

FEBRUARY 13
U.S.C.G.S.
43.8N, 147.0E
Kurile Islands
H = 09 06 55.9
h = 25 km
Resolute
iP 09 16 26 c?

FEBRUARY 13
H = 10 05 58
Mag 2.8
Penticton
eP_n 10 06 35.7
eS_n 10 07 06.8
D = 254 km

FEBRUARY 13
Resolute
eP 12 18 13?

FEBRUARY 13
Resolute
eP 13 14 18?

FEBRUARY 13
U.S.C.G.S.
29.7N, 81.0E
Nepal-Tibet border
H = 16 10 19.8
h = 35 km
Resolute
eP 16 22 06

FEBRUARY 13
U.S.C.G.S.
5.1S, 128.7E
Banda Sea
H = 16 17 20.1
h = 66 km
Resolute
eP 16 31 27
e 16 35 37?

FEBRUARY 13
U.S.C.G.S.
43.7N, 149.6E
Kurile Islands
H = 16 27 20.9
h = 25 km
Mag 6
Halifax
eP 16 40 13 d
Ottawa
eP 16 39 47 c
Resolute
iP 16 36 52c?
eS 16 44 18?
Shawinigan Falls
eP 16 39 49

FEBRUARY 13
Penticton
eP 17 37 28

FEBRUARY 13
U.S.C.G.S.
44.1N, 147.4E
Kurile Islands
H = 17 50 16.5
h = 42 km
Resolute
eP 17 59 42

FEBRUARY 13
U.S.C.G.S.
43.6N, 147.8E
Kurile Islands
H = 21 11 40.9
h = 51 km
Resolute
iP 21 21 08

FEBRUARY 13
Ottawa
eP 22 49 38
Resolute
eP 22 46 41
Shawinigan Falls
eP 22 49 39

FEBRUARY 13
Resolute
eP 23 05 43?

FEBRUARY 14
U.S.C.G.S.
44.2N, 147.8E
Kurile Islands
H = 02 51 15.3
h = 98 km
Penticton
eP 03 01 10
Resolute
iP 03 00 35

FEBRUARY 14
U.S.C.G.S.
43.8N, 147.4E
Kurile Islands
H = 03 15 25.0
h = 25 km
Resolute
eP 03 24 56 c

FEBRUARY 14
U.S.C.G.S.
43.8N, 147.9E
Kurile Islands
H = 03 22 00.7
h = 20 km
Halifax
eP 03 34 46
Ottawa
eP 03 34 28
Penticton
eP 03 32 09
Resolute
iP 03 31 32 c
eS 03 39 02?
Shawinigan Falls
eP 03 34 28

FEBRUARY 14
Resolute
eP 03 56 11

FEBRUARY 14
Resolute
eP 03 58 57

FEBRUARY 14
U.S.C.G.S.
42.3S, 73.1W
Near coast of
southern Chile
H = 05 44 24.3
h = 58 km
Halifax
iP 05 57 08.5c
Ottawa
iP 05 57 08
Resolute
eP' 06 03 06?
Shawinigan Falls
eP 05 57 15

FEBRUARY 14
Resolute
eP 06 54 03

FEBRUARY 14
Resolute
eP 06 56 47

FEBRUARY 14
H = 14 27 19
Mag 2.2
Penticton
eP_n 14 27 48.9
eS_n 14 28 11.8
D = 188 km

FEBRUARY 14
U.S.C.G.S.
15.4S, 175.1W
Samoa Islands region
H = 15 50 52.2
h = 25 km
Penticton
eP 16 03 13

FEBRUARY 14
Resolute
eP 16 45 39

FEBRUARY 14
Resolute
eP 20 20 07

FEBRUARY 14
Resolute
eP 23 31 18

FEBRUARY 15
Resolute
eP 01 46 18

FEBRUARY 15
Resolute
eP 02 20 50

FEBRUARY 15
Resolute
eP 04 05 30?

FEBRUARY 15
Resolute
eP 08 18 42

FEBRUARY 15
Resolute
eP 10 18 48

FEBRUARY 15
U.S.C.G.S.
43.7N, 147.4E
Kurile Islands
H = 10 45 15.9
h = 69 km
Mag 6
Halifax
eP 10 58 01
Ottawa
eP 10 57 38
Resolute
eP 10 54 42 c
eS 11 02 20
Shawinigan Falls
eP 10 57 40
Victoria
eP 10 55 09

FEBRUARY 15
U.S.C.G.S.
30.8N, 84.4E
Tibet
H = 11 28 55.0
h = 66 km
Resolute
eP 11 40 30

FEBRUARY 15
Resolute
eP 12 06 30

FEBRUARY 15
Resolute
eP 12 07 21?

FEBRUARY 15
Resolute
eP 14 23 38?

FEBRUARY 15
Resolute
eP 18 43 48

FEBRUARY 15
Resolute
eP 20 47 38

DOMINION OBSERVATORIES

FEBRUARY 15
H = 21 18 00
Mag 2.3
Penticton
eP_n 21 18 35.9
eS_n 21 19 05.4
D = 241 km

FEBRUARY 16
H = 00 47 42
Mag 2.5
Penticton
eP_1 00 48 05.4
eS_1 00 48 12.9
D = 143 km

FEBRUARY 16
Resolute
eP 03 54 32?

FEBRUARY 16
Penticton
eP 04 08 36

FEBRUARY 16
Penticton
eP 05 30 11
Resolute
eP 05 32 13

FEBRUARY 16
Resolute
eP 05 32 36

FEBRUARY 16
U.S.C.G.S.
32.7N, 137.7E
South of Honshu Japan
H = 08 54 59.9
h = 303 km
Resolute
eP 09 05 24

FEBRUARY 16
Resolute
eP 12 01 35

FEBRUARY 16
Shawinigan Falls
eP 13 14 54

FEBRUARY 16
Penticton
eP 13 38 51

FEBRUARY 16
U.S.C.G.S.
43.2N, 148.0E
Kurile Islands
H = 13 54 53.7
h = 71 km
Mag 6
Halifax
eP 14 07 38
Ottawa
eP 14 07 15 c
Penticton
eP 14 04 56
Resolute
iP 14 04 19 c
Shawinigan Falls
eP 14 07 16 c
Victoria
iP 14 04 45

FEBRUARY 16
Resolute
iP 15 03 54

FEBRUARY 16
Resolute
eP? 15 43 27

FEBRUARY 17
Penticton
eP 06 10 01

FEBRUARY 17
U.S.C.G.S.
6.5N, 73.5W
Colombia
H = 06 11 35.7
h = 25 km
Resolute
eP 06 22 41

FEBRUARY 17
U.S.C.G.S.
43.5N, 148.0E
Kurile Islands
H = 06 48 58.5
h = 25 km
Resolute
eP 06 58 32 c

FEBRUARY 17
Resolute
eP 13 42 09

FEBRUARY 17
Resolute
eP 17 14 19

FEBRUARY 18
U.S.C.G.S.
44.0N, 147.5E
Kurile Islands
H = 01 04 00.8
h = 28 km
Ottawa
eP 01 16 26 d
Resolute
eP 01 13 30

FEBRUARY 18
Resolute
eP 02 00 48

FEBRUARY 18
Resolute
eP 07 27 03

FEBRUARY 18
Resolute
eP 08 22 28

FEBRUARY 18
Resolute
iP 08 32 00

FEBRUARY 18
Ottawa
eP 08 34 56

FEBRUARY 18
Resolute
eP 12 35 06?

FEBRUARY 18
Resolute
eP? 15 18 00?

FEBRUARY 18
U.S.C.G.S.
43.6N, 148.2E
Kurile Islands
H = 15 54 01.6
h = 25 km
Resolute
eP 16 03 31

FEBRUARY 18
Resolute
eP? 16 39 37

FEBRUARY 18
U.S.C.G.S.
1.3S, 15.7W
Atlantic Ocean
H = 17 02 10.0
h = 25 km
Resolute
eP 17 15 03?

FEBRUARY 18
U.S.C.G.S.
4.3N, 126.6E
Philippine Islands
H = 20 00 28.7
h = 74 km
Resolute
eP 20 13 56?

FEBRUARY 19
Alberni
iP_1 02 25 17.0
iS_1 02 25 29.8
D = 105 km
Victoria
eP 02 25 39.6
D = 268 km

FEBRUARY 19
U.S.C.G.S.
56.1N, 153.4W
Kodiak Island
H = 07 55 27.6
h = 61 km
Resolute
eP 08 01 23 d?
Shawinigan Falls
eP 08 04 08 d

FEBRUARY 19
U.S.C.G.S.
56.1N, 153.5W
Kodiak Island
H = 12 11 15.7
h = 39 km
Resolute
iP 12 17 13

FEBRUARY 19
U.S.C.G.S.
56.1N, 153.4W
Kodiak Island
H = 13 07 45.5
h = 44 km
Ottawa
eP 13 16 21
Resolute
iP 13 13 43 d?
Shawinigan Falls
iP 13 16 27 c

FEBRUARY 19
Resolute
eP 16 51 31

FEBRUARY 19
Resolute
eP 20 47 58

FEBRUARY 19
Resolute
eP 21 44 18

FEBRUARY 20
Resolute
eP 00 15 42

FEBRUARY 20
Resolute
eP? 04 45 27

FEBRUARY 20
Resolute
eP 09 08 01?

FEBRUARY 20
Resolute
eP 11 03 20?

DOMINION OBSERVATORIES

FEBRUARY 20
Resolute
eP 13 11 08 d

FEBRUARY 20
Resolute
eP 13 14 56
Shawinigan Falls
eP 13 12 15

FEBRUARY 20
Resolute
eP 14 20 47

FEBRUARY 20
Resolute
eP? 18 17 00
eP 18 17 13 ?

FEBRUARY 20
Halifax
iP 18 37 21.5 d
Ottawa
eP 18 37 27 d
Shawinigan Falls
iP 18 37 33 d

FEBRUARY 20
Resolute
eP 18 43 34?

FEBRUARY 20
Resolute
eP 18 55 12?

FEBRUARY 20
Resolute
eP? 19 04 37

FEBRUARY 20
U.S.C.G.S.
2.5S, 77.6W
Ecuador
H = 22 27 00.4
h = 50 km
Ottawa
eP 22 35 35
Resolute
eP 22 38 53
Victoria
eP 22 37 40

FEBRUARY 21
U.S.C.G.S.
36.5N, 23.3E
Near coast of Greece
H = 03 01 55.3
h = 49 km
Halifax
P 03 12 39
Ottawa
eP 03 13 09
Resolute
eP 03 12 13
Shawinigan Falls
eP 03 12 54

FEBRUARY 21
Resolute
eP 07 11 55

FEBRUARY 21
Resolute
eP 15 28 59?

FEBRUARY 21
Resolute
eP 19 26 22?

FEBRUARY 21
U.S.C.G.S.
48.8S, 106.2E
Indian Ocean
H = 19 10 56.8
h = 52 km
Penticton
eP_1' 19 30 43
Resolute
eP_1' 19 30 48?

FEBRUARY 22
51.5N, 179.8E
Andreanof Islands
H = 02 49 18.2
h = 99 km
Penticton
eP 02 56 26
Resolute
eP 02 56 47

FEBRUARY 22
Penticton
eP 09 24 10

FEBRUARY 22
U.S.C.G.S.
28.4S, 177.2W
Kermadec Islands region
H = 21 53 34.5
h = 78 km
Mag 5 3/4
Ottawa
eP' 22 12 14
Resolute
eP' 22 12 09
e 22 22 54?
Shawinigan Falls
eP' 22 12 18
Victoria
eP 22 06 33

FEBRUARY 23
Resolute
eP 03 27 57?

FEBRUARY 23
U.S.C.G.S.
38.2N, 142.7E
Honshu Japan
H = 04 16 25.0
h = 119 km
Ottawa
eP 04 29 14
Resolute
iP 04 26 30 c
eS 04 34 48
Shawinigan Falls
eP 04 29 14
Victoria
eP 04 26 59

FEBRUARY 23
Resolute
iP 07 58 17 c?

FEBRUARY 23
H = 12 48 56
Mag 2.5
Penticton
eP_n 12 49 31.8
eS_n 12 50 01.0
D = 238 km

FEBRUARY 23
Penticton
eP 14 39 29
Resolute
eP 14 41 52

FEBRUARY 23
U.S.C.G.S.
37.3N, 27.5E
Dodecanese Islands
H = 21 45 51.5
h = 25 km
Resolute
eP 21 56 15?
Shawinigan Falls
eP 21 57 06

FEBRUARY 24
Resolute
eP 02 46 53

FEBRUARY 24
U.S.C.G.S.
26.1N, 125.4E
Ryukyu Islands
H = 03 04 11.7
h = 25 km
Resolute
iP 03 15 59 d

FEBRUARY 24
U.S.C.G.S.
17.8S, 68.5W
Western Bolivia
H = 08 16 05.4
h = 100 km
Penticton
eP 08 28 06

FEBRUARY 24
H = 11 22 08
Mag 2.2
Alberni
iP_1 11 22 19.6
iS_1 11 22 28.8
D = 75 km

FEBRUARY 25
Resolute
eP 02 15 40?

FEBRUARY 25
Penticton
eP 11 15 50

FEBRUARY 25
Resolute
eP 11 34 53

FEBRUARY 25
H = 12 03 21
Mag 2.4
Penticton
eP_n 12 03 59.6
eS_n 12 04 32.0
D = 266 km

FEBRUARY 25
U.S.C.G.S.
15.4S, 175.8W
Samoa Islands region
H = 15 02 04.8
h = 62 km
Penticton
eP 15 14 11
Resolute
eP 15 15 58?
Victoria
eP 15 14 06 c

FEBRUARY 25
Resolute
iP 15 33 36 d?

FEBRUARY 25
Resolute
eP? 20 34 18

FEBRUARY 25
Resolute
eP? 22 03 17

DOMINION OBSERVATORIES

FEBRUARY 26
U.S.C.G.S.
32.7S, 111.2W
Easter Island region
H = 05 48 46.3
h = 29 km
Mag 6 1/2
Ottawa
eP 06 01 20
Penticton
eP 06 01 08
Shawinigan Falls
eP 06 01 29
Victoria
eP 06 01 05 d

FEBRUARY 26
Penticton
eP 09 37 59
Resolute
eP? 09 32 46

FEBRUARY 26
Resolute
iP 17 59 20 c

FEBRUARY 26
U.S.C.G.S.
31.4N, 131.2E
Near coast of
Kyushu, Japan
H = 18 10 48.7
h = 54 km
Mag 7
Alberni
eP 18 22 29
Halifax
iP 18 24 47 d
Ottawa
eP 18 24 29
Penticton
eP 18 22 43
Resolute
iP 18 21 56 c
iS 18 31 01
Victoria
eP 18 22 36

FEBRUARY 26
Resolute
eP 18 59 10

FEBRUARY 26
Ottawa
eP 19 56 33
Resolute
eP 19 54 15

FEBRUARY 26
Resolute
iP 21 13 48 c

FEBRUARY 27
U.S.C.G.S.
6.7N, 73.0W
Colombia
H = 01 07 51.3
h = 200 km
Ottawa
eP 01 15 00
Penticton
eP 01 17 26
Resolute
eP 01 18 40 d
Victoria
iP 01 17 39

FEBRUARY 27
Resolute
eP 06 41 21

FEBRUARY 27
U.S.C.G.S.
38.7S, 72.4W
Southern Chile
H = 10 29 48.3
h = 57 km
Ottawa
eP 10 42 15

FEBRUARY 27
Penticton
eP 11 09 00

FEBRUARY 27
Penticton
eP 12 08 34
Resolute
eP 12 28 19

FEBRUARY 27
Resolute
eP 12 32 11

FEBRUARY 27
U.S.C.G.S.
52.5N, 168.8W
Fox Islands
H = 13 06 35.8
h = 56 km
Ottawa
eP 13 16 21
Resolute
eP 13 13 34

FEBRUARY 27
U.S.C.G.S.
9.8N, 84.4W
Near coast of
Costa Rica
H = 15 44 19.8
Ottawa
eP 15 51 19
Resolute
eP 15 54 54
Shawinigan Falls
eP 15 51 32

FEBRUARY 27
Resolute
eP 16 45 26?

FEBRUARY 27
U.S.C.G.S.
38.4N, 74.7E
Tadzhik S.S.R.
H = 17 53 35.9
h = 48 km
Resolute
eP 18 04 28

FEBRUARY 27
H = 18 50 21
Mag 2.6
Alberni
eP 18 50 51.5
D = 207 km
Victoria
eP_1 18 50 34.6
eS_1 18 50 45.3
D = 88 km

FEBRUARY 27
Resolute
eP? 19 46 41

FEBRUARY 27
Halifax
iP 21 50 46 c
Resolute
eP 21 50 31?

FEBRUARY 27
U.S.C.G.S.
36.2N, 26.9E
Aegean Sea
H = 21 54 30.6
h = 32 km
Resolute
eP 22 04 57?

FEBRUARY 28
Resolute
eP 00 13 44

FEBRUARY 28
Resolute
eP 02 14 57?

FEBRUARY 28
Resolute
eP 07 52 26?

FEBRUARY 28
U.S.C.G.S.
46.5N, 152.2E
Kurile Islands
H = 12 33 32.1
h = 29 km
Penticton
eP 12 43 09
Resolute
iP 12 42 35
Shawinigan Falls
eP 12 45 37

FEBRUARY 28
U.S.C.G.S.
24.1S, 66.6W
Argentina
H = 21 18 11.3
h = 30 km
Penticton
eP 21 30 57

FEBRUARY 28
Resolute
iP 23 45 25

MARCH 1
U.S.C.G.S.
13.2N, 143.2E
Mariana Islands region
H = 00 23 42.5
h = 221 km
Resolute
eP 00 35 59

MARCH 1
U.S.C.G.S.
18.7S, 177.9W
Fiji Islands region
H = 06 41 43.5
h = 513 km
Penticton
eP 06 53 32

MARCH 1
Resolute
eP 13 03 37

MARCH 1
U.S.C.G.S.
2.8N, 126.5E
Molucca Passage
H = 14 05 08.3
h = 61 km
Resolute
eP 14 18 44?

MARCH 1
Resolute
eP 15 06 00

MARCH 1
Resolute
eP 16 13 25?

MARCH 1
U.S.C.G.S.
13.7N, 146.2E
Mariana Islands
H = 19 26 13.5
h = 73 km
Resolute
eP 19 38 40?

DOMINION OBSERVATORIES

MARCH 1
U.S.C.G.S.
2.8S, 105.7W
West of Galapagos Islands
H = 23 42 43.8
Penticton
eP 23 51 59
Resolute
eP 23 54 32?
Shawinigan Falls
eP 23 52 27

MARCH 2
U.S.C.G.S.
15.7N, 92.2W
Mexico-Guatemala border
H = 00 04 12.7
h = 98 km
Ottawa
eP 00 10 37
Penticton
eP 00 11 43 c
Resolute
eP 00 14 01
Shawinigan Falls
eP 00 10 56

MARCH 2
Resolute
iP 12 01 32
i 12 01 48

MARCH 2
Penticton
eP 13 54 00
Resolute
eP 13 56 32 d?

MARCH 2
U.S.C.G.S.
4.7S, 106.3W
West of Galapagos Islands
H = 15 18 54.3
h = 25 km
Penticton
eP 15 28 29
Resolute
eP 15 31 04
Shawinigan Falls
eP 15 28 57

MARCH 3
Resolute
eP 02 17 47

MARCH 3
U.S.C.G.S.
42.3N, 143.9E
Hokkaido Japan
H = 05 15 55.8
Resolute
iP 05 25 40 c

MARCH 3
U.S.C.G.S.
31.8S, 178.0W
Kermadec Islands region
H = 08 17 30.6
h = 63 km
Resolute
eP' 08 36 12 ?

MARCH 3
U.S.C.G.S.
5.7S, 147.4E
Near coast of New Guinea
H = 09 46 16.7
h = 25 km
Penticton
eP 09 59 43

MARCH 4
U.S.C.G.S.
51.8N, 179.3E
Rat Islands
H = 07 41 37.3
h = 49 km
Resolute
eP 07 49 11?

MARCH 4
Resolute
eP 08 01 24?

MARCH 4
Resolute
eP 08 04 19?

MARCH 4
48°57'N, 125°26'W
Barkley Sound
H = 09 44 12
Mag 2.7
Alberni
iP_1 09 44 21.7
iS_1 09 44 28.9
D = 59 km
Penticton
eP_n 09 45 11.7
eS_n 09 45 53.2
D = 431 km
Victoria
iP_1 09 44 37.6
iS_1 09 44 56.2
D = 157 km

MARCH 4
48°57N, 125°30W
Barkley sound aftershock of previous earthquake
H = 09 50 50
Mag 2.4
Alberni
eP_1 09 51 00.2
eS_1 09 51 07.8
D = 62 km

Victoria
eP_1 09 51 16.0
eS_1 09 51 35.8
D = 162 km

MARCH 4
U.S.C.G.S.
Chile-Bolivia border
H = 10 19 33.7
h = 109 km
Ottawa
eP 10 30 42
Penticton
eP 10 31 52
Shawinigan Falls
eP 10 30 48
Victoria
eP 10 31 59

MARCH 4
Resolute
eP 10 54 10

MARCH 4
H = 18 04 51
Mag 3.4
Penticton
eP_n 18 05 43.7
eS_n 18 06 30.1
D = 380 km

MARCH 4
Resolute
eP 19 02 50

MARCH 4
U.S.C.G.S.
51.8N, 167.3W
Fox Islands
H = 18 59 58.2
h = 99 km
Resolute
eP 19 06 55

MARCH 4
Resolute
eP 20 46 56

MARCH 4
U.S.C.G.S.
12.6N, 88.0W
Near coast of El Salvador
H = 21 09 09.9
h = 85 km
Penticton
eP 21 17 20
Resolute
eP 21 19 27?
Shawinigan Falls
eP 21 16 08
Victoria
eP 21 17 32

MARCH 4
U.S.C.G.S.
37.8N, 141.6E
Near coast of Honshu, Japan
H = 22 26 01.2
h = 61 km
Ottawa
eP 22 39 01
Penticton
eP 22 36 53
Resolute
iP 22 36 17 c?
Shawinigan Falls
eP 22 39 03
Victoria
eP 22 36 43

MARCH 5
U.S.C.G.S.
10.7S, 161.6E
Solomon Islands region
H = 01 26 26.1
h = 99 km
Mag 6 1/4
Ottawa
eP' 01 45 09
Penticton
iP 01 39 23 d
Resolute
eP 01 40 31 ?
Shawinigan Falls
eP' 01 45 12
Victoria
eP 01 39 12

MARCH 5
Resolute
eP? 06 12 22

MARCH 5
Resolute
eP 12 09 19

MARCH 5
U.S.C.G.S.
20.6S, 176.1W
Tonga Islands region
H = 21 25 55.6
h = 58 km
Penticton
eP 21 38 33

MARCH 6
48°09'N, 80°02'W
Rockburst at Kirkland Lake, Ontario
H = 12 13 29
Halifax
L_g 12 19 47.4
D = 1320 km
Montreal
P_n 12 14 46
i 12 14 59.5
S_n 12 15 43.8
L_g 12 16 05.5
D = 569 km
Ottawa
P_n 12 14 31.5
P_1 12 14 40.5
S_n 12 15 15
S_1 12 15 31
D = 451 km

DOMINION OBSERVATORIES

Resolute
L_g 12 27 32
D = 3000 km
Seven Falls
P_n 12 15 01.2
S_n 12 16 12.5
L_g 12 16 44.7
D = 700 km
Shawinigan Falls
P_n 12 14 46
S_n 12 15 45
L_g 12 16 08
Weston
P 12 15 31
S 12 17 44
D = 934 km

MARCH 6
Resolute
eP 12 24 43 ?

MARCH 6
Resolute
eP? 13 27 03

MARCH 6
H = 21 30 07
Mag 2.0
Penticton
iP_1 21 30 33.7
iS_1 21 33 53.8
D = 164 km

MARCH 7
U.S.C.G.S.
28.8N, 139.1E
West of Bonin Islands
H = 02 47 25.8
h = 25 km
Penticton
eP 02 59 09
Resolute
eP 02 58 42

MARCH 7
U.S.C.G.S.
28.0N, 142.8E
Bonin Islands
region
H = 04 16 44.1
h = 123 km
Resolute
eP 04 27 52

MARCH 7
Resolute
eP 05 55 45?

MARCH 7
Resolute
eP 08 27 12 ?

MARCH 7
Resolute
eP 08 31 28?

MARCH 7
U.S.C.G.S.
28.2S, 175.7W
Kermadec Islands
region
H = 10 10 38.9
h = 43 km
Mag 7 1/4
Alberni
eP 10 22 58
Halifax
eP' 10 29 37
Ottawa
eP' 10 29 19
i 10 39 51
Penticton
iP 10 23 47 d
Resolute
eP 10 25 32?
eP' 10 29 15?
i 10 30 15
i 10 38 10
e 10 40 01
i 10 46 20

Shawinigan Falls
eP' 10 29 24
Victoria
eP 10 23 36

MARCH 7
Resolute
eP 19 12 22

MARCH 7
U.S.C.G.S.
38.2S, 78.1E
Indian Ocean
H = 19 08 36.1
h = 30 km
Resolute
eP' 19 27 44 ?

MARCH 7
U.S.C.G.S.
4.7S, 153.2E
New Britain region
H = 23 11 59.6
h = 90 km
Resolute
eP? 23 25 39
i ? 23 25 42

MARCH 8
U.S.C.G.S.
52.2N, 165.2W
Fox Islands
H = 00 17 58.4
h = 63 km
Ottawa
eP 00 27 29
Resolute
eP 00 24 50
Shawinigan Falls
eP 00 27 34

SEISMOLOGICAL BULLETIN - 1961

MARCH 8
U.S.C.G.S.
4.0S, 141.8E
New Guinea
H = 03 27 16.2
h = 217 km
Resolute
eP 03 40 51?

MARCH 8
U.S.C.G.S.
2.2N, 128.3E
Halmahera
H = 19 45 43.0
h = 370 km
Resolute
eP 19 58 45

MARCH 8
U.S.C.G.S.
32.5N, 141.7E
Off coast of
Honshu, Japan
H = 23 01 55.9
h = 37 km
Resolute
eP 23 12 45

MARCH 8
H = 23 16 54
Mag 2.3
Alberni
iP_1 23 17 01.5
iS_1 23 17 07.5
D = 49 km
Victoria
eP 23 17 45

MARCH 9
U.S.C.G.S.
10.9N, 41.7W
Atlantic Ocean
H = 03 59 08.7
h = 27 km
Halifax
eP 04 06 33
Ottawa
eP 04 07 26
Penticton
eP 04 10 45
Resolute
eP 04 10 24
i 04 10 33
eS? 04 19 39
Shawinigan Falls
eP 04 07 20

MARCH 9
Resolute
eP 08 26 35

MARCH 9
Resolute
eP 09 22 46

MARCH 9
Alberni
eP 09 55 17
Penticton
iP 09 55 33 d
Victoria
eP 09 55 04

MARCH 9
U.S.C.G.S.
66.0N, 156.6W
Central Alaska
H = 12 51 02.1
h = 85 km
Penticton
eP 12 56 25
Resolute
eP 12 55 46

MARCH 9
Resolute
eP 21 14 31

MARCH 9
Resolute
eP 21 59 59

MARCH 10
H = 00 35 06
Mag 2.4
Penticton
iP_1 00 35 29.6
iS_1 00 35 47.7
D = 148 km

MARCH 10
U.S.C.G.S.
51.9S, 161.6E
Macquarie Island
region
H = 03 00 43.3
h = 25 km
Resolute
eP' 03 20 11?
Shawinigan Falls
eP' 03 20 25

MARCH 10
Resolute
eP 03 45 24

MARCH 10
H = 07 13 33
Mag 2.1
Penticton
eP_n 07 14 12.4
eS_n 07 14 44.9
D = 266 km
Victoria
eP_n 07 13 52.1
eS_n 07 14 15.1
D = 188 km

DOMINION OBSERVATORIES

MARCH 10
Resolute
eP 10 00 53

MARCH 10
Resolute
eP 15 17 58?

MARCH 10
U.S.C.G
23.5S, 65.4W
Argentina
H = 15 31 37.2
h = 118 km
Penticton
eP 15 44 15

MARCH 10
H = 21 35 55
Mag 2.0
Penticton
iP_1 21 36 19.4
iS_1 21 36 37.9
D = 152 km

MARCH 10
U.S.C.G.S.
10.1N, 83.6W
Near coast of
Costa Rica
H = 23 12 20.4
h = 56 km
Ottawa
iP 23 19 17 d
Penticton
eP 23 21 09 d
Resolute
eP 23 22 55 c?
Shawinigan Falls
eP 23 19 33

MARCH 10
Resolute
eP 23 29 25

MARCH 10
U.S.C.G.S.
10.1S, 161.4E
Solomon Islands
region
H = 23 36 08.8
h = 139 km
Penticton
eP 23 49 00 c
Resolute
eP 23 49 56?
e 23 53 52?

MARCH 11
U.S.C.G.S.
52.9N, 167.3W
Fox Islands
H = 01 27 02.3
h = 98 km
Resolute
eP 01 33 50

MARCH 11
U.S.C.G.S.
48.7N, 154.6E
Kurile Islands
H = 01 31 34.4
h = 26 km
Mag 6 1/2
Halifax
eP 01 43 49.5
Ottawa
eP 01 43 23
Resolute
eP 01 40 52 c
Resolute
iP 01 40 19
PP 01 42 12
eS 01 47 17
Shawinigan Falls
eP 01 43 25
Victoria
eP 01 40 40

MARCH 11
U.S.C.G.S.
16.3S, 173.0W
Tonga Islands region
H = 02 25 17.0
h = 25 km
Penticton
eP 02 37 33

MARCH 11
H = 06 26 13
Mag 2.1
Penticton
iP_n 06 26 43.6
iS_n 06 27 07.6
D = 196 km

MARCH 11
U.S.C.G.S.
52.8N, 168.6W
Fox Islands
H = 07 18 44.9
h = 40 km
Resolute
eP 07 25 43

MARCH 11
U.S.C.G.S.
11.2N, 43.3E
Near coast of
British Somaliland
H = 08 41 00.0
h = 18 km
Resolute
eP 08 54 06 d?
eS 09 05 04
PS 09 06 09?
SS 09 11 00?

MARCH 11
Resolute
eP? 10 07 28

SEISMOLOGICAL BULLETIN - 1961

MARCH 11
48.8°N, 122.4°W
East of Bellingham
Washington, U.S.A.
H = 17 06 10
Mag 2.2
Alberni
$S_1 - P_1$ = 22.7 secs.
D = 186 km
Penticton
eP_n 17 06 42.7
eS_n 17 07 04.0
D = 224 km
Victoria
eP_1 17 06 24.5
eS_1 17 06 36.5
D = 98 km

MARCH 11
Resolute
eP? 22 18 10

MARCH 12
U.S.C.G.S.
17.4N, 107.3W
Off coast of Mexico
H = 02 49 33.4
h = 57 km
Mag 5 1/4
Resolute
eP 02 59 23
i 02 59 25

MARCH 12
Resolute
eP 03 11 39
i 03 11 51

MARCH 12
Resolute
eP 10 49 18

MARCH 12
U.S.C.G.S.
19.2N, 107.1W
Off coast of
Mexico
H = 12 09 10.7
h = 64 km
Resolute
eP 12 18 42?

MARCH 12
Resolute
eP 14 42 04

MARCH 12
U.S.C.G.S.
43.8N, 129.1W
Off coast of Oregon
H = 14 59 16.8
h = 19 km
Resolute
eP 15 06 12?

MARCH 12
U.S.C.G.S.
28.4S, 176.0W
Tonga Islands region
H = 23 21 42.5
h = 113 km
Mag 6 1/4
Penticton
eP 23 34 45 d
Resolute
eP' 23 40 14

MARCH 13
U.S.C.G.S.
5.2S, 153.3E
New Britain
H = 04 51 13.9
h = 25 km
Resolute
eP 05 05 00?

MARCH 13
Resolute
eP? 07 43 36?

MARCH 13
U.S.C.G.S.
19.2N, 107.3W
Off coast of Mexico
H = 08 03 43.9
h = 49 km
Mag 6 1/4
Penticton
eP 08 10 05
Resolute
eP 08 13 17 c?
eS 08 21 07
S_cS? 08 23 04 ?
SS? 08 25 02
Shawinigan Falls
eP 08 11 09

MARCH 13
Provisional Epicentre
45°08'N, 75°23'W
Near Ormond, Ont.
H = 10 55 45
Montreal
P 10 56 06.0
i 10 56 09.0
i 10 56 12.6
i 10 56 21.4
i 10 56 27.5
D = approx. 144 km
Ottawa
P 10 55 51.2
10 55 56.2 (?)
D = approx. 41 km
Shawinigan Falls
P 10 56 24.1
i 10 56 51.1
i 10 56 52.9
D = approx. 260 km

MARCH 13
Resolute
eP 14 38 28

MARCH 13
U.S.C.G.S.
34.4N, 26.5E
Crete
H = 19 17 16.1
h = 25 km
Ottawa
P 19 28 52
Resolute
eP 19 27 51
Shawinigan Falls
eP 19 28 37

MARCH 13
Resolute
eP 19 43 14?

MARCH 13
U.S.C.G.S.
56.2S, 27.2W
Sandwich Islands
H = 20 35 15.4
h = 56 km
Resolute
eP' 20 54 31
e 20 57 59
Victoria
e 20 57 37

MARCH 14
U.S.C.G.S.
42.9N, 140.2E
Off coast of
Hokkaido, Japan
H = 01 05 06.2
h = 147 km
Penticton
eP 01 15 31
Resolute
eP 01 14 37 c?
Shawinigan Falls
eP 01 17 35
Victoria
eP 01 15 21

MARCH 14
U.S.C.G.S.
18.8S, 172.6W
Tonga Islands region
H = 04 18 06.5
h = 25 km
Penticton
eP 04 30 29

MARCH 14
Resolute
eP 07 05 07?

MARCH 14
Resolute
eP 07 38 26?

MARCH 14
U.S.C.G.S.
67.8N, 164.9W
Bering Strait
H = 11 58 53.9
h = 78 km
Resolute
eP 12 03 44

MARCH 14
Resolute
eP 12 07 51 ?

MARCH 14
H = 15 02 17
Mag 2.3
Penticton
eP_n 15 02 55.4
eS_n 15 03 26.8
D = 256 km

MARCH 14
H = 19 48 13
Mag 2.4
Penticton
eP_n 19 48 49.8
eS_n 19 49 19.8
D = 246 km

MARCH 14
48.8°N, 122.4°W
Near Bellingham,
Washington, U.S.A.
H = 23 22 45
Mag 1.9
Penticton
eP_n 23 23 20.6
eS_n 23 23 44.4
D = 195 km
Victoria
eP_1 23 22 58.0
D = 75 km

MARCH 15
H = 07 24 25
Mag 2.6
Penticton
eP_n 07 25 08.1
eS_n 07 25 44.5
D = 298 km

MARCH 15
Resolute
eP 08 04 28?

MARCH 15
Resolute
eP? 10 27 05?

MARCH 15
U.S.C.G.S.
3.3S, 150.7E
New Ireland region
H = 10 14 55.5
h = 21 km
Mag 6
Resolute
eP 10 28 39?
PP? 10 32 44
eS? 10 40 10?
SS? 10 47 05?
Victoria
eP 10 28 01

MARCH 15
U.S.C.G.S.
4.4S, 152.5E
New Britain
H = 13 01 02.2
h = 99 km
Penticton
eP 13 14 03
Resolute
eP 13 14 40
e 13 18 40?
Shawinigan Falls
eP' 13 19 50
Victoria
eP 13 13 52

MARCH 15
U.S.C.G.S.
27.5N, 142.9E
Bonin Islands
H = 16 17 16.8
h = 100 km
Resolute
eP 16 28 29?

MARCH 15
Resolute
eP 16 45 55?

MARCH 15
Resolute
eP 23 31 34

MARCH 16
U.S.C.G.S.
51.7N, 176.1E
Rat Islands
H = 04 58 00.4
h = 39 km
Resolute
eP 05 05 41 c?
Shawinigan Falls
eP 05 08 43

MARCH 16
Resolute
eP 09 30 31

MARCH 16
U.S.C.G.S.
6.4S, 130.7E
Banda Sea
H = 11 19 43.5
h = 77 km
Resolute
eP 11 33 55?
e 11 45 47

MARCH 16
Resolute
eP 12 56 01?

MARCH 16
U.S.C.G.S.
8.2S, 122.0E
Flores Island
H = 13 45 35.6
h = 74 km
Mag 6 1/4
Halifax
iP' 14 05 02 c
Resolute
eP 14 00 05?
e 14 04 04?
i 14 14 08
e 14 15 14?
Shawinigan Falls
eP' 14 04 52

MARCH 16
U.S.C.G.S.
49.6N, 154.3E
Kurile Islands
H = 15 26 56.2
h = 42 km
Ottawa
P 15 38 41
Resolute
eP 15 35 34
Shawinigan Falls
eP 15 38 42

MARCH 16
Resolute
eP 17 08 32

MARCH 16
Resolute
eP 17 59 00?

MARCH 16
U.S.C.G.S.
8.1S, 122.0E
Flores Island
H = 18 21 12.2
h = 43 km
Resolute
eP'? 18 39 47?
Shawinigan Falls
eP' 18 40 37

MARCH 16
H = 19 51 07
Mag 1.3
Penticton
eP_1 19 51 17.3
eS_1 19 51 25.2
D = 64 km

DOMINION OBSERVATORIES

MARCH 16
Penticton
eP 20 19 37

MARCH 16
Resolute
eP 22 39 02?

MARCH 16
Penticton
eP 23 27 04

MARCH 16
U.S.C.G.S.
10.5S, 74.9W
Central Peru
H = 23 31 27.2
h = 201 km
Resolute
eP 23 43 49 d?
Shawinigan Falls
eP 23 40 45

MARCH 16
Penticton
eP 23 43 48

MARCH 17
Penticton
eP 03 52 41

MARCH 17
H = 11 22 28
Mag 1.7
Victoria
iP_1 11 22 41.7
iS_1 11 22 52.2
D = 86 km

MARCH 17
H = 11 23 54
Mag 1.8
Penticton
eP_n 11 24 27.1
eS_n 11 24 53.6
D = 217 km
Penticton
eP 14 21 02
Resolute
eP? 14 23 14?

MARCH 17
Resolute
eP? 14 29 12?

MARCH 17
Resolute
eP 16 06 47

MARCH 17
Penticton
eP 16 16 17

MARCH 17
U.S.C.G.S.
24.3S, 175.6W
Tonga Islands region
H = 20 10 36.4
h = 79 km
Mag 6
Penticton
e 20 23 26
Resolute
eP' 20 29 07

MARCH 17
Penticton
eP 22 33 46

MARCH 17
Penticton
eP 22 36 38

MARCH 17
U.S.C.G.S.
34.1N, 141.0E
Off coast of
Honshu, Japan
H = 22 40 21.5
h = 120 km
Resolute
iP 22 50 56d?

MARCH 18
Penticton
eP 02 04 34
Resolute
iP 02 05 31 d?

MARCH 18
U.S.C.G.S.
8.2S, 122.0E
Flores Island
H = 02 08 38.5
h = 35 km
Resolute
eP' 02 27 08?

MARCH 18
U.S.C.G.S.
24.3S, 174.2W
Tonga Islands region
H = 08 26 49.0
h = 25 km
Penticton
eP 08 39 39

MARCH 18
U.S.C.G.S.
20.6S, 175.5W
Tonga Islands region
H = 09 29 23.5
h = 667 km
Resolute
eP' 09 47 01

SEISMOLOGICAL BULLETIN - 1961

MARCH 18
U.S.C.G.S.
29.5N, 138.6E
Bonin Islands region
H = 10 16 48.5
h = 500 km
Resolute
iP 10 27 16 c

MARCH 18
H = 11 18 50
Mag 1.9
Penticton
eP_1 11 19 18.4
eS_1 11 19 39.8
D = 175 km

MARCH 18
Victoria
eP 11 27 35
Penticton
eP 11 37 34

MARCH 18
U.S.C.G.S.
49.9S, 163.3E
South of New Zealand
H = 14 54 59.3
h = 38 km
Mag 6 3/4
Halifax
eP' 15 14 45 d
Ottawa
P' 15 14 25
Penticton
eP' 15 13 49
Resolute
eP' 15 14 18
Shawinigan Falls
eP' 15 14 29
Victoria
eP' 15 13 53

MARCH 18
U.S.C.G.S.
7.6N, 126.9E
Off coast of
Mindanao,
Philippine Islands
H = 17 39 34.3
h = 63 km
Resolute
eP 17 52 50

MARCH 18
U.S.C.G.S.
25.4N, 122.6E
Off coast of Formosa
H = 20 06 57.3
h = 25 km
Resolute
iP 20 18 53 c?

MARCH 19
U.S.C.G.S.
40.5N, 142.9E
North of Honshu
Japan
H = 04 51 52.2
h = 14 km
Penticton
eP 05 02 31
Resolute
iP 05 01 52 c?

MARCH 19
U.S.C.G.S.
6.4S, 105.5E
Soenda Strait
H = 04 59 19.3
h = 120 km
Penticton
eP' 05 18 06
Resolute
eP' 05 17 42
Shawinigan Falls
eP' 05 18 36
Victoria
eP' 05 18 04

MARCH 19
U.S.C.G.S.
16.0S, 168.2E
New Hebrides Islands
H = 07 14 57.4
h = 90 km
Ottawa
P' 07 33 50
Penticton
eP 07 27 21
Resolute
eP' 07 33 27?
Shawinigan Falls
eP' 07 33 55

MARCH 19
U.S.C.G.S.
2.3N, 127.4E
Molucca Passage
H = 07 51 35.0
h = 83 km
Resolute
eP 08 05 10 c
i 08 05 27
Shawinigan Falls
eP' 08 10 36

MARCH 19
U.S.C.G.S.
37.2N, 140.7E
Honshu Japan
H = 09 18 53.4
h = 115 km
Resolute
iP 09 29 10 c

MARCH 19
U.S.C.G.S.
16.4S, 167.3E
New Hebrides Islands
H = 12 05 47.7
h = 16 km
Resolute
eP' 12 24 16?
Shawinigan Falls
eP' 12 24 47

DOMINION OBSERVATORIES

MARCH 19
Penticton
eP 14 30 04
Resolute
eP 14 32 22?
Victoria
eP 14 30 15

MARCH 19
Resolute
eP? 19 01 16

MARCH 19
Resolute
eP 19 18 40?

MARCH 19
Penticton
eP 21 46 49

MARCH 20
Resolute
eP 01 34 57 c?

MARCH 20
U.S.C.G.S.
21.6N, 145.8E
Mariana Islands
H = 02 17 34.5
h = 101 km
Resolute
iP 02 29 08

MARCH 20
U.S.C.G.S.
36.6N, 71.1E
Hindu Kush
H = 03 30 27.4
h = 121 km
Penticton
eP 03 43 38
Resolute
iP 03 41 22 c?
Shawinigan Falls
eP 03 43 26

MARCH 20
U.S.C.G.S.
11.5N, 86.3W
Off coast of
Nicaragua
H = 06 16 23.9
h = 122 km
Mag 6
Alberni
eP 06 25 08
Halifax
eP 06 23 41.4
Ottawa
eP 06 23 10(c)
iP 06 23 10.3 d
Penticton
iP 06 24 45 c
Resolute
eP 06 26 44 c
Shawinigan Falls
eP 06 23 26 c
Victoria
eP 06 24 57

MARCH 20
Resolute
eP 09 20 36?

MARCH 20
U.S.C.G.S.
16.4N, 121.5E
Philippine Islands
H = 11 27 05.4
h = 30 km
Resolute
eP 11 39 45

MARCH 20
U.S.C.G.S.
46.3N, 142.7E
Sakhalin Island
H = 11 38 39.3
h = 354 km
Alberni
eP 11 48 02
Ottawa
iP 11 50 26 c
Penticton
iP 11 48 21 c
Resolute
iP 11 47 27 c
Shawinigan Falls
eP 11 50 26 c
Victoria
eP 11 48 10

MARCH 20
U.S.C.G.S.
35.5N, 77.9E
Northern India
H = 14 00 29.5
h = 74 km
Resolute
eP 14 11 36

MARCH 20
U.S.C.G.S.
18.4S, 175.2W
Tonga Islands
H = 15 53 09.9
h = 175 km
Mag 6 1/2
Alberni
eP 16 05 11
Halifax
eP' 16 11 41.5
Ottawa
i 16 08 13
P' 16 11 24
Penticton
iP 16 05 22
Resolute
eP 16 07 02
i 16 07 04
e 16 11 17
i 16 17 26
i 16 18 41
i 16 20 08
e 16 22 45
Shawinigan Falls
eP' 16 11 30 c
e 16 22 25
i 16 22 37
Victoria
eP 16 05 08

SEISMOLOGICAL BULLETIN - 1961

MARCH 20
Resolute
eP? 21 30 51?

MARCH 20
U.S.C.G.S.
24.2S, 175.9W
Tonga Islands region
H = 23 42 33.9
h = 25 km
Penticton
eP 23 55 28
Resolute
eP' 24 01 05?
eS? 24 09 31
e 24 12 20?
i 24 17 18
i 24 21 20

MARCH 21
Resolute
eP? 03 01 08?

MARCH 21
H = 05 49 32
Mag 3.1
Penticton
eP_n 05 50 31.0
eS_n 05 51 23.2
D = 427 km

MARCH 21
Penticton
eP 06 18 53

MARCH 21
U.S.C.G.S.
21.8S, 179.9W
South of Fiji Islands
H = 09 22 31.7
h = 599 km
Penticton
eP 09 34 27
Resolute
eP' 09 39 40

MARCH 21
Resolute
eP 11 14 18?

MARCH 21
Resolute
eP 11 21 42

MARCH 21
Resolute
eP? 16 34 27

MARCH 21
Resolute
eP? 20 00 00?

MARCH 21
Resolute
eP? 20 12 14

MARCH 22
Penticton
eP 06 44 58

MARCH 22
45°50'N, 77°05'W
Near Pembroke, Ont.
H = 12 02 56.0
Mag 2.2
Ottawa
P_1 12 03 14.6
S_1 12 03 28.8
D = 116.5 km

MARCH 22
Resolute
eP 12 19 47

MARCH 22
Resolute
eP 12 46 22

MARCH 22
Penticton
eP 14 25 57

MARCH 22
U.S.C.G.S.
11.8N, 86.8W
Near coast of
Nicaragua
H = 14 19 46.5
h = 172 km
Resolute
eP 14 29 57
i 14 30 18
Shawinigan Falls
eP 14 26 39

MARCH 22
Resolute
eP 18 00 11

MARCH 22
U.S.C.G.S.
24.6S, 179.3E
South of Fiji Islands
H = 21 28 41.6
h = 517 km
Resolute
eP' 21 46 20

MARCH 23
U.S.C.G.S.
43.5N, 12.9E
Near coast of Italy
H = 01 02 01.6
h = 116 km
Resolute
eP? 01 11 09

DOMINION OBSERVATORIES

MARCH 23
U.S.C.G.S.
1.0S, 120.2E
Celebes
H = 01 47 27.6
h = 10 km
Shawinigan Falls
eP' 02 06 49

MARCH 23
Resolute
eP? 02 29 36

MARCH 23
U.S.C.G.S.
6.5S, 154.7E
Solomon Islands
H = 20 56 32.1
h = 143 km
Shawinigan Falls
eP' 21 15 18

MARCH 23
H = 23 54 46
Mag 2.1
Alberni
iP_1 23 54 54.9
iS_1 23 55 01.6
D = 55 km

MARCH 24
H = 00 13 27
Mag 1.9
Penticton
eP_1 00 13 50.9
eS_1 00 14 09.1
D = 149 km

MARCH 24
U.S.C.G.S.
8.5S, 74.7W
Peru
H = 02 13 14.1
h = 175 km
Resolute
eP 02 25 29
i 02 25 41

Shawinigan Falls
eP 02 22 32
i 02 23 05

MARCH 24
Canadian Arctic
H = 06 04 28.3
Mag 2.5
Resolute
iP_1 06 04 37.5d
iS_1 06 04 44.5
D = 57.5 km

MARCH 24
Resolute
eP? 08 11 36?

MARCH 24
U.S.C.G.S.
9.8N, 128.4E
Off coast of
Mindanao,
Philippine Islands
H = 19 10 40.6
h = 236 km
Resolute
eP 19 23 41 c

MARCH 24
Resolute
eP 22 03 44

MARCH 24
U.S.C.G.S.
35.3N, 140.9E
Near coast of
Honshu, Japan
H = 22 57 14.2
h = 102 km
Ottawa
P 23 10 20
Penticton
eP 23 08 15
Resolute
iP 23 07 41 c
eS? 23 16 13?

Shawinigan Falls
eP 23 10 21
Victoria
eP 23 08 06

MARCH 24
U.S.C.G.S.
2.6S, 141.9E
Near coast of
New Guinea
H = 23 37 17.1
h = 118 km
Resolute
eP 23 50 56

MARCH 25
Resolute
eP 01 13 27

MARCH 25
U.S.C.G.S.
2.1S, 79.4W
Ecuador
H = 02 09 59.9
h = 25 km
Penticton
eP 02 20 22
Resolute
eP 02 21 53
Victoria
eP 02 20 30

MARCH 25
Resolute
eP 06 05 33

MARCH 25
Resolute
eP 11 51 34?

SEISMOLOGICAL BULLETIN - 1961

MARCH 25
H = 12 25 59
Mag 3.0
Penticton
ePn_n 12 26 52.3
eS_n 12 27 39.3
D = 385 km

MARCH 25
Resolute
eP 13 26 57

MARCH 25
U.S.C.G.S.
17.5S, 179.0W
Fiji Islands
H = 14 15 38.1
h = 688 km
Penticton
eP 14 27 08

MARCH 25
U.S.C.G.S.
16.6N, 120.3E
Near coast of
Luzon,
Philippine Islands
H = 16 09 40.4
h = 21 km
Resolute
eP 16 22 21

MARCH 25
Resolute
eP? 20 03 10?

MARCH 25
U.S.C.G.S.
37.1S, 51.6E
Indian Ocean
H = 20 58 41.9
h = 137 km
Resolute
eP 21 18 01

MARCH 26
Resolute
eP 00 56 17

MARCH 26
U.S.C.G.S.
16.2N, 121.2E
Philippine Islands
H = 01 21 58.3
h = 70 km
Resolute
iP 01 34 35

MARCH 26
Resolute
eP? 06 12 10?

MARCH 26
U.S.C.G.S.
5.7N, 126.4E
Philippine Islands
H = 14 29 23.8
h = 147 km
Resolute
iP 14 42 39

MARCH 26
U.S.C.G.S.
55.5N, 163.7W
Bristol Bay
H = 20 10 46.6
h = 218 km
Ottawa
eP 20 19 46 d
Resolute
iP 20 16 56 d
e 20 19 40
Shawinigan Falls
eP 20 19 51

MARCH 26
U.S.C.G.S.
30.6N, 84.4E
Southern Tibet
H = 23 11 38.9
h = 24 km
Resolute
eP 23 23 20 d?

MARCH 27
Resolute
eP 16 30 58

MARCH 27
U.S.C.G.S.
30.7S, 179.3E
Kermadec Islands
H = 16 29 52.9
h = 514 km
Resolute
eP' 16 47 42

MARCH 27
Resolute
eP 19 52 40?

MARCH 27
H = 20 57 52
Mag 1.8
Penticton
eP_1 20 58 15.9
eS_1 20 58 33.9
D = 148 km

MARCH 27
U.S.C.G.S.
8.8N, 104.2W
Pacific Ocean
H = 20 52 39.3
h = 26 km
Resolute
eP 21 03 28

DOMINION OBSERVATORIES

MARCH 27
Ottawa
P 21 05 29
Resolute
eP 21 07 53
Shawinigan Falls
eP 21 05 47

MARCH 27
Resolute
eP 22 30 21

MARCH 28
U.S.C.G.S.
52.8N, 167.7W
Fox Islands
H = 05 59 50.5
h = 49 km
Resolute
iP 06 06 46 c?
e 06 09 14
Shawinigan Falls
eP 06 09 37

MARCH 28
U.S.C.G.S.
0.2N, 123.6E
Northern Celebes
H = 09 35 55.4
h = 83 km
Alberni
eP 09 49 54
Halifax
eP' 09 54 57
Ottawa
P' 09 54 48
iP' 09 55 03 d
i 09 58 16 c
Penticton
eP 09 49 07 c
Resolute
iP 09 49 43 c
PP? 09 53 56?
eS? 10 00 56?
i 10 03 02
Shawinigan Falls
eP' 09 54 50
Victoria
eP 09 49 58

MARCH 28
Resolute
eP? 12 06 22

MARCH 28
U.S.C.G.S.
51.7N, 176.2W
Andreanof Islands
H = 12 29 12.7
h = 60 km
Alberni
eP 12 35 40
Halifax
eP 12 40 06 c
Ottawa
P 12 39 25
Penticton
iP 12 36 06 c
Resolute
iP 12 36 34 c
Shawinigan Falls
eP 12 39 29
Victoria
eP 12 35 49

MARCH 28
U.S.C.G.S.
52.0N, 176.3W
Andreanof Islands
H = 13 59 03.7
h = 89 km
Penticton
eP 14 05 54
Resolute
eP 14 06 22
e 14 08 32
e 14 12 15
Shawinigan Falls
eP 14 09 18
Victoria
eP 14 05 38

MARCH 28
Resolute
eP 14 34 35

MARCH 28
U.S.C.G.S.
22.0S, 68.0W
Chile-Bolivia border
H = 21 01 56.2
h = 125 km
Mag 6
Alberni
eP 21 14 35
Halifax
eP 21 12 41 d
Ottawa
iP 21 12 46
Penticton
eP 21 13 46 d
Resolute
eP 21 15 24
i? 21 15 56
eS 21 26 43?
e 21 31 57
Shawinigan Falls
eP 21 12 52
Victoria
eP 21 14 28

MARCH 29
U.S.C.G.S.
33.5N, 140.9E
Near coast of
Honshu, Japan
H = 06 43 43.3
h = 116 km
Resolute
iP 06 54 21

MARCH 29
U.S.C.G.S.
0.2N, 123.9E
Northern Celebes
H = 09 35 02.1
h = 84 km
Resolute
eP 09 48 49
Shawinigan Falls
eP' 09 54 09

MARCH 29
Resolute
eP? 17 24 50

MARCH 29
U.S.C.G.S.
37.1N, 141.3E
Near coast of
Honshu, Japan
H = 18 10 24.4
h = 127 km
Resolute
eP 18 20 39 c?
e 18 40 16

MARCH 29
48.2°N, 124.1°W
Olympic Mountain
Washington, U.S.A.
H = 21 30 01
Mag 2.6
Alberni
eP_1 21 30 22.6
eS_1 21 30 39.0
D = 134 km
Victoria
eP_1 21 30 11.1
eS_1 21 30 19.3
D = 67 km

MARCH 30
U.S.C.G.S.
0.3N, 123.9E
Northern Celebes
H = 01 22 19.1
h = 159 km
Resolute
eP 01 35 59

MARCH 30
U.S.C.G.S.
22.0N, 107.8W
Gulf of California
H = 07 42 59.4
h = 20 km
Mag 5 1/2
Ottawa
P 07 50 01
Resolute
eP 07 52 20 d
i 07 52 25
eS 07 59 43
SS 08 03 27?
Shawinigan Falls
eP 07 50 23

MARCH 30
U.S.C.G.S.
15.2S, 172.8W
Samoa Islands region
H = 08 49 45.6
h = 25 km
Mag 5 3/4
Resolute
eP 09 03 38
Victoria
eP 09 01 43

MARCH 30
U.S.C.G.S.
32.4N, 103.8E
Szechwan Province,
China
H = 12 00 12.8
h = 81 km
Resolute
eP 12 11 27?

MARCH 30
Resolute
iP 15 27 25 d?

MARCH 30
Resolute
eP 18 25 08 c?

MARCH 30
Resolute
eP? 20 11 00?

MARCH 31
Canadian Arctic
H = 00 57 57.2
Mag 1.6
Resolute
iP_1 00 58 15.0
iS_1 00 58 28.5
D = 111 km

MARCH 31
48.7°N, 124.8°W
Near Clo-ose Bay
H = 03 09 56
Mag 2.5
Alberni
eP_1 03 10 06.2
eS_1 03 10 14.1
D = 64 km
Victoria
eP_1 03 10 12.8
eS_1 03 10 26.2
D = 110 km

MARCH 31
Resolute
eP 04 26 33 d?

MARCH 31
U.S.C.G.S.
32.6N, 135.7E
South of Honshu,
Japan
H = 05 20 36.8
h = 300 km
Resolute
eP 05 31 17
Victoria
eP 05 31 35

DOMINION OBSERVATORIES

MARCH 31
Resolute
eP 06 36 50

MARCH 31
Resolute
eP 07 33 44 d?

MARCH 31
Resolute
eP 09 09 01

MARCH 31
U.S.C.G.S.
43.5N, 101.3E
Outer Mongolia
H = 11 02 34.9
h = 79 km
Resolute
eP 11 12 44

MARCH 31
Resolute
eP 16 41 24 c

MARCH 31
Resolute
eP 21 09 02?

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN THE CANADIAN ARCTIC

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

JANUARY 3 at 12 05 25 U.T. Magnitude 3.4. Originated 550 km from Resolute, N.W.T.

JANUARY 3 at 20 47 48 U.T. Magnitude 4.3. Originated 1250 km from Resolute, N.W.T.

JANUARY 3 at 23 30 45 U.T. Magnitude 2.7. Originated 210 km from Resolute, N.W.T., at a depth of about 4 km.

JANUARY 20 at 11 30 26 U.T. Magnitude 1.0. Originated 49 km from Resolute, N.W.T.

JANUARY 31 at 04 09 01 U.T. Magnitude 1.7. Originated 109 km from Resolute, N.W.T.

FEBRUARY 1 at 10 43 56 U.T. Magnitude 3.2. Originated 234 km from Resolute, N.W.T., at a depth of about 29 km.

MARCH 24 at 06 04 28 U.T. Magnitude 2.5. Originated 57.5 km from Resolute, N.W.T.

MARCH 31 at 00 57 57 U.T. Magnitude 1.6. Originated 111 km from Resolute, N.W.T.

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

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

JANUARY 29 at 00 49 39 U.T. Magnitude 3.8. Epicentre 46°23'N; 66°56'W. Near Napadogan, N.B. Felt by very few persons as " a sudden jar and then a bump". Water pipes rattled. Direction estimated as "northeasterly".

MARCH 6 at 12 13 29 U.T. Rockburst at Kirkland Lake, Ont. (48°09'N; 80°02'W).

MARCH 13 at 10 55 45 U.T. A small shock provisionally located at 45°08'N; 75°23'W. Near Ormond, Ont. Felt for fifty kilometres around the centre, including the city of Ottawa, Ont.

MARCH 22 at 12 02 56 U.T. Magnitude 2.2. Epicentre 45°50'N; 77°05'W. Near Pembroke, Ont., where it was felt by a few people.

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the first quarter of 1961. The times of observed phases are given in their respective chronological position 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.

JANUARY 2 at 15 54 36 U.T. Magnitude 2.9. Epicentre at 46.2°N; 122.7°W. Near Longview, Washington, U.S.A. Q:b.

JANUARY 4 at 01 53 04 U.T. Magnitude 3.1. About 426 km from Penticton.

JANUARY 4 at 07 26 04 U.T. Magnitude 3.3. Epicentre at 50°55'N; 124°52'W. Head of Butte Inlet. Q:a.

JANUARY 4 at 10 00 57 U.T. Magnitude 1.8. Epicentre at 48.3°N; 121.6°W. South of Mount Baker, Washington, U.S.A. Q:c.

JANUARY 4 at 20 34 29 U.T. Magnitude 2.6. About 128 km from Penticton.

JANUARY 5 at 06 20 06 U.T. Magnitude 1.8. About 50 km from Victoria.

JANUARY 7 at 19 31 04 U.T. Magnitude 2.7. About 267 km from Penticton.

JANUARY 8 at 11 46 15 U.T. Magnitude 3.3. About 352 km from Penticton.

JANUARY 9 at 08 40 48 U.T. Magnitude 2.6. About 310 km from Penticton.

JANUARY 9 at 23 24 56 U.T. Magnitude 2.0. About 170 km from Penticton.

JANUARY 13 at 00 44 36 U.T. Magnitude 2.0. About 130 km from Penticton.

JANUARY 14 at 06 44 26 U.T. Magnitude 2.7. About 158 km from Alberni.

JANUARY 17 at 11 27 50 U.T. Magnitude 3 to 3 1/2. Epicentre at 51.8°N; 125.5°W. North west of Mount Waddington.

DOMINION OBSERVATORIES

JANUARY 17 at 15 31 39 U.T. Magnitude less than 2. About 32 km from Victoria.

JANUARY 18 at 09 14 25 U.T. Magnitude 2.7. About 125 km from Alberni.

JANUARY 20 at 21 40 27 U.T. Magnitude 2.0. About 146 km from Penticton.

JANUARY 21 at 09 01 34 U.T. Magnitude 2.1. About 182 km from Penticton.

JANUARY 24 at 11 54 50 U.T. Magnitude 1.6. About 82 km from Victoria.

JANUARY 24 at 17 13 00 U.T. Magnitude 2.0. About 269 km from Penticton.

JANUARY 25 at 08 45 12 U.T. Magnitude 2.2. About 293 km from Penticton.

JANUARY 25 at 15 43 36 U.T. Magnitude 1.3. About 134 km from Penticton.

JANUARY 26 at 04 21 57 U.T. Magnitude 2.3. Epicentre at 48.8°N; 125.0°W. In Barkley Sound. Q:c.

JANUARY 27 at 00 47 35 U.T. Magnitude 1.8. About 131 km from Penticton.

JANUARY 28 at 11 52 18 U.T. Magnitude 2.8. Epicentre at 47.9°N; 122.9°W. Eastern Puget Sound, Washington, U.S.A. Q:c.

JANUARY 30 at 08 17 22 U.T. Magnitude 2.0. About 266 km from Penticton.

FEBRUARY 1 at 00 31 43 U.T. Magnitude 2.0. About 56 km from Alberni.

FEBRUARY 1 at 00 36 00 U.T. Magnitude 3.9. Epicentre determined by U.S.C.G.S. and D.A.O. to be at 50.2°N; 129.7°W. Off coast of Vancouver Island. Q:b.

FEBRUARY 2 at 00 44 42 U.T. Magnitude 1.4. About 144 km from Penticton.

FEBRUARY 2 at 05 50 16 U.T. Magnitude 3.1. Epicentre at 46.8°N; 121.5°W. Near Mount Rainer, Washington, U.S.A. Q:c.

FEBRUARY 2 at 11 04 57 U.T. Magnitude 1.9. About 56 km from Alberni.

FEBRUARY 2 at 17 07 55 U.T. Magnitude 2.4. About 274 km from Penticton.

FEBRUARY 6 at 05 19 23 U.T. Magnitude 3.3. Epicentre at 47.5°N; 126.9°W. Off west coast of Washington, U.S.A. Q:c.

FEBRUARY 7 at 06 08 31 U.T. Magnitude 3. Epicentre at 48.8°N; 129.3°W. Off coast of Vancouver Island. Q:c.

FEBRUARY 8 at 16 34 14 U.T. Magnitude 2.3. About 85 km from Alberni.

FEBRUARY 11 at 01 02 26 U.T. Magnitude 2.1. About 178 km from Penticton.

FEBRUARY 11 at 16 44 53 U.T. Magnitude 1.2. About 150 km from Penticton.

FEBRUARY 12 at 01 58 58 U.T. Magnitude 2.5. About 326 km from Penticton.

FEBRUARY 13 at 00 37 09 U.T. Magnitude 1.4. About 142 km from Penticton.

FEBRUARY 13 at 02 04 33 U.T. Magnitude 1.9. About 294 km. from Penticton.

FEBRUARY 13 at 10 05 58 U.T. Magnitude 2.8. About 254 km from Penticton.

FEBRUARY 14 at 14 27 19 U.T. Magnitude 2.2. About 189 km from Penticton.

FEBRUARY 15 at 21 18 00 U.T. Magnitude 2.3. About 242 km from Penticton.

FEBRUARY 16 at 00 47 42 U.T. Magnitude 2.5. About 142 km from Penticton.

FEBRUARY 19 at 02 25 00 U.T. Magnitude 2.6. About 106 km from Alberni.

FEBRUARY 23 at 12 48 56 U.T. Magnitude 2.5. About 238 km from Penticton.

FEBRUARY 24 at 11 22 08 U.T. Magnitude 2.2. About 75 km from Alberni.

FEBRUARY 25 at 12 03 21 U.T. Magnitude 2.4. About 266 km from Penticton.

FEBRUARY 27 at 18 50 21 U.T. Magnitude 2.6. About 88 km from Victoria.

MARCH 4 at 09 44 12 U.T. Magnitude 2.7. Epicentre at 48°57'N; 125°26'W. Barkley Sound. Q:a.

MARCH 4 at 09 50 50 U.T. Magnitude 2.4. Epicentre at 48°57'N; 125°30'W. Barkley Sound. Q:a.

MARCH 4 at 18 04 51 U.T. Magnitude 3.4. About 381 km from Penticton.

MARCH 6 at 21 30 07 U.T. Magnitude 2.0. About 163 km from Penticton.

MARCH 8 at 23 16 54 U.T. Magnitude 2.3. About 49 km from Alberni.

MARCH 10 at 00 35 06. Magnitude 2.4. About 147 km from Penticton.

MARCH 10 at 07 13 33 U.T. Magnitude 2.1. About 187 km from Victoria.

MARCH 10 at 21 35 55 U.T. Magnitude 2.0. About 152 km from Penticton.

MARCH 11 at 06 26 13 U.T. Magnitude 2.1. About 197 km from Penticton.

MARCH 11 at 17 06 10 U.T. Magnitude 2.2. Epicentre at 48.8°N; 122.4°W. East of Bellingham, Washington, U.S.A. Q:c.

MARCH 14 at 15 02 17 U.T. Magnitude 2.3. About 256 km from Penticton.

MARCH 14 at 19 48 13 U.T. Magnitude 2.4. About 246 km from Penticton.

MARCH 14 at 23 22 45 U.T. Magnitude 1.9. Epicentre at 48.8°N; 122.4°W. Near Bellingham, Washington, U.S.A. Q:c.

MARCH 15 at 07 24 25 U.T. Magnitude 2.6. About 298 km from Penticton.

MARCH 16 at 19 51 07 U.T. Magnitude 1.3. About 64 km from Penticton.

MARCH 17 at 11 22 28 U.T. Magnitude 1.7. About 86 km from Victoria.

MARCH 17 at 11 23 54 U.T. Magnitude 1.8. About 218 km from Penticton.

MARCH 18 at 11 18 50 U.T. Magnitude 1.9. About 174 km from Penticton.

MARCH 21 at 05 49 32 U.T. Magnitude 3.1. About 427 km from Penticton.

MARCH 23 at 23 54 46 U.T. Magnitude 2.1. About 54 km from Alberni.

MARCH 24 at 00 13 27 U.T. Magnitude 1.9. About 149 km from Penticton.

MARCH 25 at 12 25 59 U.T. Magnitude 3.0. About 386 km from Penticton.

MARCH 27 at 20 57 52 U.T. Magnitude 1.8. About 147 km from Penticton.

MARCH 29 at 21 30 01 U.T. Magnitude 2.6. Epicentre at 48.2°N; 124.1°W. Olympic Mountain, Washington, U.S.A. Q:c.

MARCH 31 at 03 09 56 U.T. Magnitude 2.5. Epicentre at 48.7°N; 124.8°W. Near Clo-oose Bay. Q:c.

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1961

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.

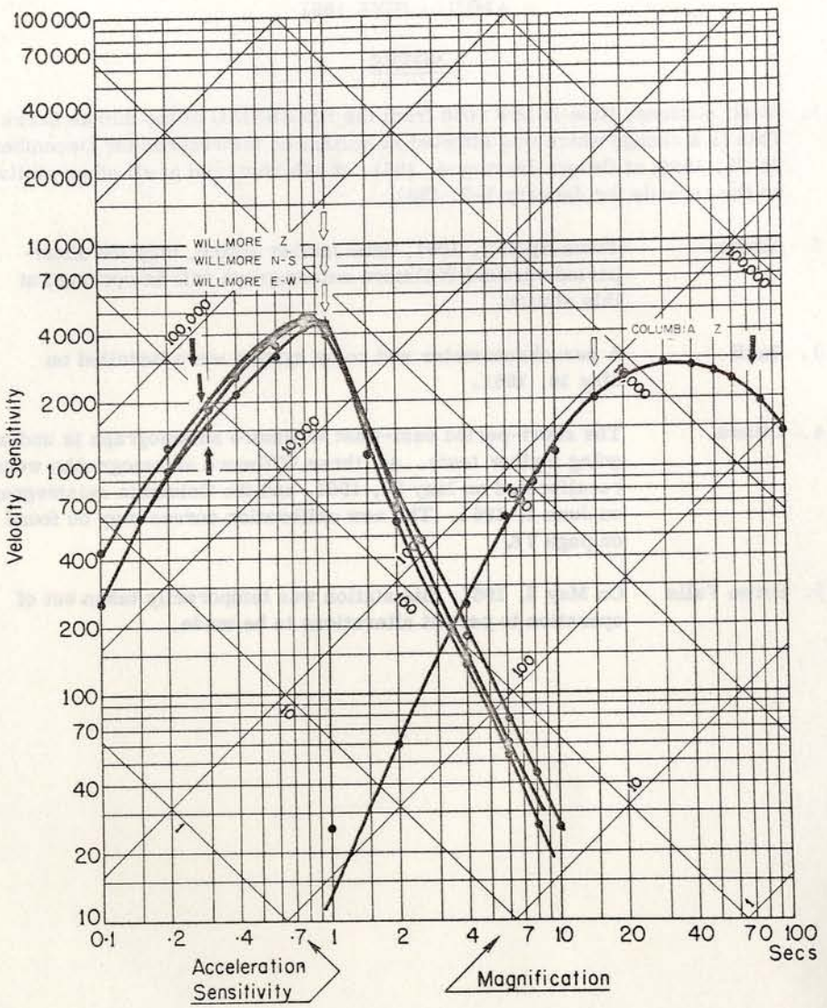
3. Banff — A new chronometer and relay system were installed on May 14, 1961.

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.

CALIBRATION CURVES

STATION: OTTAWA



ϕ = 45°23'38"N λ = 75°42'57"W Altitude 83M

Foundation : Boulder clay on limestone

T_s ⇧ T_g ⇧

Date of Calibration: May - June 1961

Willmore's		Columbia	
S.P.Z.	MAY - 30	L.P.Z.	JUNE - 1
S.P.H. - N.S.	MAY - 30		
S.P.H. - E.W.	MAY - 30		

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
eP_1 01 01 34.5
eS_1 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
eP_1 01 03 11.6
eS_1 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
eP_1 01 07 49.5
eS_1 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
eP_1 15 25 38.4
eS_1 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
eP_1 16 10 34.6
eS_1 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
eP_1 23 33 20.5
eS_1 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

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 09 18 30

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?
Shawinigan Falls
eP 09 59 42
Victoria
eP 09 59 41

APRIL 4
Resolute
eP 12 56 25

APRIL 4
Canadian Arctic
H = 17 37 54
Mag 4.5
Resolute
eP_n 17 41 47
iS_n 17 44 33
eL_g 17 46 33
D = 1850 km

APRIL 4
Resolute
eP 22 56 30

APRIL 4
Resolute
eP 23 20 47

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 5
Resolute
eP 04 54 37

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 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

APRIL 6
Resolute
eP 01 02 05?

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 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

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

DOMINION OBSERVATORIES

APRIL 6
Resolute
eP 12 51 20

APRIL 6
Resolute
eP 13 24 01?

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 6
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 6
Resolute
eP 20 20 42?

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.
36.2N, 70.8E
Hindu Kush
region
H = 04 40 37.0
h = 73 km
Resolute
eP 04 51 40

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
Resolute
eP? 06 03 13?

APRIL 7
Resolute
eP 06 06 32?

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 7
Resolute
eP 12 14 32

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 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 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?

APRIL 8
U.S.C.G.S.
2.2S, 79.2W
Ecuador
H = 04 22 08.7
h = 25 km
Ottawa
P 04 30 43
Resolute
eP 04 34 02
Shawinigan Falls
eP 04 30 56

APRIL 8
Resolute
eP 04 41 59?

APRIL 8
U.S.C.G.S.
2.1S, 79.1W
Ecuador
H = 04 47 01.8
h = 24 km
Halifax
eP 04 55 47 c(?)
Ottawa
P 04 55 37
Resolute
eP 04 58 56
Shawinigan Falls
eP 04 55 48 c

APRIL 8
U.S.C.G.S.
2.1S, 79.1W
Ecuador
H = 09 03 48.9
h = 24 km
Ottawa
P 09 12 23.5
Resolute
eP 09 15 42
Shawinigan Falls
eP 09 12 35
Victoria
eP 09 14 22

APRIL 8
U.S.C.G.S.
10.0N, 122.1E
Philippine Islands
H = 11 48 35.9
h = 62 km
Resolute
eP 12 01 44

APRIL 8
Resolute
eP? 13 33 02

APRIL 8
Resolute
eP 14 01 40

APRIL 8
Shawinigan Falls
eP 17 55 52

APRIL 8
U.S.C.G.S.
38.2S, 72.7W
Chile
H = 17 59 46.7
h = 60 km
Mag 6 1/2
Halifax
iP 18 12 09.5 c
Ottawa
iP 18 12 10 c
Resolute
eP? 18 14 28?
e 18 18 00?
eS? 18 26 53
Shawinigan Falls
eP 18 12 17

APRIL 8
Resolute
eP 18 49 51 c

APRIL 8
U.S.C.G.S.
37.6N, 140.3E
Honshu, Japan
H = 19 18 54.8
h = 189 km
Ottawa
iP 19 31 42 c
Resolute
iP 19 28 59 d
i 19 29 29
Shawinigan Falls
eP 19 31 43

APRIL 8
U.S.C.G.S.
14.8N, 145.1E
Mariana Islands
H = 21 36 41.6
h = 105 km
Mag 6 1/2
Alberni
eP 21 48 38
Resolute
eP 21 48 59 d
Victoria
eP 21 48 43

APRIL 8
Resolute
eP 23 39 14

APRIL 9
U.S.C.G.S.
14.6N, 145.3E
Mariana Islands
H = 00 29 51.7
h = 118 km
Resolute
eP 00 42 08
i 00 42 09

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
iP_1 16 40 58.0
iS_1 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

APRIL 10
28 km from Victoria
H = 18 55 57
Mag 1.8
Alberni
eP_1 18 56 16.4
eS_1 18 56 24.0
D = 119 km
Victoria
eP_1 18 56 01.8
eS_1 18 56 05.2
D = 28 km

APRIL 10
Resolute
eP 19 21 22?

APRIL 10
Resolute
eP? 19 27 57

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

APRIL 10
Resolute
eP 20 59 39
iP 20 59 45 d

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

APRIL 11
Resolute
eP 05 24 25?

APRIL 11
Resolute
iP 16 36 35

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?

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

APRIL 11
Resolute
eP 22 03 56?

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

APRIL 12
Resolute
eP? 05 52 58

APRIL 12
Resolute
eP? 12 40 15?

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

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

DOMINION OBSERVATORIES

APRIL 12
U.S.C.G.S.
48.1N, 154.7E
Kurile Islands
H = 17 27 46.5
h = 42 km
Ottawa
eP 17 39 35
Penticton
eP 17 37 03 c
Resolute
eP 17 36 32 c?
Shawinigan Falls
eP 17 39 37
Victoria
eP 17 36 53 c

APRIL 12
U.S.C.G.S.
23.2N, 142.4E
Mariana Islands region
H = 17 52 02.0
h = 64 km
Resolute
eP 18 03 42 c?

APRIL 12
U.S.C.G.S.
13.1N, 88.9W
El Salvador
H = 22 20 33.6
h = 122 km
Mag 5 3/4
Alberni
eP 22 28 55
Halifax
eP 22 27 46.5 c
Ottawa
iP 22 27 10 c
Penticton
eP 22 28 31 d
Resolute
iP 22 30 42 c
PPP? 22 34 56
eS 22 38 58
Shawinigan Falls
iP 22 27 27 c
Victoria
eP 22 28 44 c

APRIL 12
Resolute
iP 22 48 48

APRIL 12
Resolute
eP 22 59 07?

APRIL 13
Resolute
eP 03 22 33

APRIL 13
Canadian Arctic
H = 06 33 11.0
Mag 1.8
Resolute
e 06 33 32.5
iP_1 06 33 34
iS_1 06 33 55.5
D = 134 km

APRIL 13
49.9°N, 120.6°W
South of Merritt, B.C.
H = 13 08 01
Mag 3.0
Alberni
eP_1 13 08 48.0
D = 333 km
Penticton
iP_1 13 08 16.7
iS_1 13 08 28.9
D = 100 km
Victoria
eP_n 13 08 39.7
eS_n 13 09 07.2
D = 265 km

APRIL 13
90 km from Penticton
H = 14 02 22
Mag 1.7
Penticton
eP_1 14 02 37.0
eS_1 14 02 47.9
D = 90 km

APRIL 13
U.S.C.G.S.
27.0N, 128.3E
Ryukyu Islands
H = 15 26 11.0
h = 197 km
Resolute
eP 15 37 32 d?

APRIL 13
U.S.C.G.S.
40.1N, 77.8E
Sinkiang, China
H = 16 34 39.1
h = 19 km
Halifax
eP 16 47 35
Ottawa
P 16 47 49
Penticton
eP 16 47 36
Resolute
eP 16 45 23 c?
eS 16 54 16
Shawinigan Falls
eP 16 47 39
Victoria
eP 16 47 38

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 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 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
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
Victoria
eP 00 41 14

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 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 15
Canadian Arctic
H = 10 36 10
Mag 3.9
Resolute
eP_n 10 38 05
iS_n 10 39 29
eL_g 10 40 18
D = 900 km

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.
29.9N, 138.8E
South of Honshu, Japan
H = 06 17 21.3
h = 387 km
Resolute
eP 06 27 55

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 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

Ottawa
eP 12 29 50
Resolute
eP 12 28 31
Shawinigan Falls
eP 12 30 00
Victoria
eP 12 24 10

APRIL 16
47.4°N, 120.0°W
Near Wenatchie
Washington, U.S.A.
H = 15 35 02
Mag 3.1
Alberni
eP_n 15 36 01.8
D = 434 km
Penticton
eP_n 15 35 29.6
eS_n 15 35 54.0
D = 225 km
Victoria
eP_n 15 35 41.8
eS_n 15 36 11.3
D = 271 km

APRIL 16
Canadian Arctic
H = 20 42 45.2
Mag 2.5
Resolute
iP_1 20 42 57.5
iS_1 20 43 05.2
D = 94 km

APRIL 16
U.S.C.G.S.
3.4S, 135.6E
Near coast of
New Guinea
H = 23 12 52.2
h = 64 km
Resolute
eP 23 26 46 c

APRIL 17
U.S.C.G.S.
31.8S, 69.8W
Central Chile-
Argentina border
H = 02 32 28.2
h = 147 km
Halifax
iP 02 44 14 d
Shawinigan Falls
eP 02 44 22

APRIL 17
Resolute
eP 13 02 04?

APRIL 17
U.S.C.G.S.
29.6N, 141.9E
South of Honshu,
Japan
H = 13 08 10.8
h = 141 km
Resolute
eP 13 19 09

APRIL 17
U.S.C.G.S.
3.9N, 31.5W
Mid-Atlantic
Ocean
H = 16 21 10.2
h = 25 km
Resolute
eP 16 33 16

APRIL 17
Resolute
eP 18 15 39?

APRIL 17
22 km from Penticton
H = 20 28 08
Mag 1.2
Penticton
eP_1 20 28 11.5
eS_1 20 28 14.2
D = 22 km

APRIL 17
U.S.C.G.S.
20.8S, 68.5W
Chile-Bolivia border
H = 20 35 15.4
h = 200 km
Penticton
eP 20 47 24
Resolute
eP 20 48 28?
Shawinigan Falls
eP 20 46 01

APRIL 17
U.S.C.G.S.
21.3S, 178.6W
Tonga Islands region
H = 20 48 12.5
h = 549 km
Penticton
eP 21 00 06

APRIL 18
Resolute
eP 01 52 22

APRIL 18
U.S.C.G.S.
33.0S, 179.6W
Kermadec Islands
H = 04 10 36.4
h = 25 km
Resolute
eP' 04 29 29

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 18
Resolute
eP? 08 08 12

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 18
Resolute
eP 08 47 46?

APRIL 18
Resolute
eP 12 22 34

APRIL 18
Resolute
eP? 18 24 28

APRIL 18
Resolute
eP 19 44 16?

APRIL 19
Resolute
eP 00 16 27?

APRIL 19
Resolute
eP 01 49 24

APRIL 19
Resolute
eP 05 12 53

APRIL 19
Resolute
eP 07 09 07

APRIL 19
Resolute
eP 16 11 00

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
Resolute
eP 16 21 53 c
Shawinigan Falls
eP 16 24 51
Victoria
eP 16 22 20

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
Resolute
eP 18 21 33
eS? 18 27 43?
Shawinigan Falls
eP 18 24 53
Victoria
eP 18 21 59

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?
Shawinigan Falls
eP 20 32 05

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 19
Resolute
eP 23 39 21?

APRIL 20
Resolute
eP 05 20 18

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

DOMINION OBSERVATORIES

APRIL 20
96 km from Victoria
H = 12 22 04
Mag 2.3
Alberni
eP_n 12 22 35.6
eS_n 12 23 01.6
D = 208 km
Victoria
eP_1 12 22 18.9
eS_1 12 22 30.0
D = 96 km

APRIL 20
45°00'N, 74°47'W
Between Cornwall, Ont., and Massena, N.Y.
H = 13 12 59.7
Mag 2.0
Montreal
iP_1 13 13 16.9
i 13 13 27.2
iS_1 13 13 30.0
D = 107.5 km
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 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 20
Resolute
eP 14 31 07

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 20
Victoria
eP 21 15 17

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
Resolute
eP 00 25 02?

APRIL 21
Resolute
eP 14 53 49

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?
Shawinigan Falls
eP 19 42 81

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 21
Alberni
eP 20 30 15
Resolute
eP 20 35 49
Victoria
eP 20 33 12

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

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APRIL 22
Resolute
eP? 02 10 36

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 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
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
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
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 09 23 12

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 13 31 59

APRIL 23
Resolute
eP 14 33 06

APRIL 23
Resolute
eP 15 04 40

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

APRIL 23
Resolute
eP 21 09 38

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

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

APRIL 25
Resolute
eP 14 03 04

APRIL 25
Resolute
eP 21 01 21

APRIL 25
Resolute
eP 21 29 13

APRIL 25
Resolute
eP 23 51 29

APRIL 25
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

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

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

APRIL 26
48.2°N, 124.9°W
Off west coast of
Washington, U.S.A.
H = 08 06 34
Mag 2.7
Alberni
eP_1 08 06 52.7
eS_1 08 07 04.2
D = 119 km
Victoria
eP_1 08 06 53.5
eS_1 08 07 08.5
D = 123 km

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

APRIL 26
Resolute
eP 12 29 16

APRIL 26
Resolute
eP 12 48 23

APRIL 26
Resolute
eP 13 01 13

APRIL 26
Resolute
eP 13 33 41?

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

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

APRIL 27
Penticton
eP 04 49 15

APRIL 27
Resolute
eP 05 39 29

DOMINION OBSERVATORIES

APRIL 27
Resolute
eP 09 10 13?

APRIL 27
Resolute
eP 11 14 25?

APRIL 27
Resolute
eP 11 25 54

APRIL 17
Resolute
eP 17 57 41?

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

APRIL 27
Resolute
eP 20 34 58

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?

APRIL 28
Resolute
eP? 02 29 57

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

APRIL 28
Resolute
eP 14 16 41

APRIL 28
Resolute
iP 22 24 46 c?

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

APRIL 29
Resolute
eP 09 14 12

APRIL 29
Resolute
eP 09 25 45

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

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

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

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APRIL 29
Victoria
eP 11 24 39

APRIL 29
Resolute
eP 11 57 31

APRIL 29
Resolute
eP 16 24 43

APRIL 29
Resolute
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
Resolute
eP' 00 30 06
i 00 30 12

APRIL 30
Resolute
eP 00 58 44

APRIL 30
Penticton
eP 04 47 46
Resolute
eP 04 52 29

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
Resolute
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
Resolute
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
Resolute
eP 11 09 54 c

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
Resolute
eP 11 24 35 c
eS 11 32 04

APRIL 30
Victoria
eP 11 24 58

APRIL 30
Penticton
eP 14 16 23
Resolute
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
Resolute
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
Resolute
eP 17 37 47

APRIL 30
Resolute
eP 18 42 27

APRIL 30
Resolute
eP 21 56 12

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

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Penticton
S-P = 44.5 secs.
D = 364 km
Victoria
eP_1 05 37 43.3
iS_1 05 37 55.5
D = 100 km

MAY 2
Resolute
eP 08 35 35?

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 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 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

MAY 2
Resolute
eP? 21 08 15?

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 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
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
Resolute
eP 04 32 21

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

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 3
Victoria
eP 09 50 57

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 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

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
Victoria
eP 00 38 25

MAY 4
Resolute
eP 01 20 45

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
Resolute
eP 06 56 57

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
Shawinigan Falls
eP 07 07 37

MAY 4
Resolute
eP 13 05 47

MAY 4
Resolute
eP 15 34 24

MAY 4
Resolute
eP 17 21 06

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 4
Resolute
eP 20 43 44

MAY 4
Resolute
eP 20 58 48

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 5
Resolute
eP 11 58 48 c?

MAY 5
Resolute
eP 12 35 31

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 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 5
Resolute
iP 20 38 17

MAY 6
Resolute
eP 07 53 52?

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
U.S.C.G.S.
40.6N, 127.0W
Off coast of California
H = 06 03 03.3
h = 32 km
Penticton
eP 06 05 28
Resolute
eP 06 10 11
Victoria
eP 06 05 02

MAY 7
Victoria
eP 07 48 51

MAY 7
U.S.C.G.S.
5.8N, 126.8E
Off coast of Mindanao, Philippine Islands
H = 10 22 43.7
h = 89 km
Halifax
eP' 10 41 47 c (?)
Ottawa
eP' 10 41 38
Penticton
eP 10 36 27
Resolute
eP 10 36 03
Shawinigan Falls
eP' 10 41 39

MAY 7
Resolute
eP 10 52 07?

MAY 7
U.S.C.G.S.
35.2N, 134.5E
Honshu, Japan
H = 12 14 15.5
h = 25 km
Resolute
eP 12 25 02

MAY 7
Resolute
eP 12 30 44

MAY 7
U.S.C.G.S.
16.0N, 46.9W
Atlantic Ocean
H = 13 22 04.8
h = 39 km
Shawinigan Falls
eP 13 29 20 d

MAY 7
Resolute
eP 15 33 38

MAY 7
Resolute
eP 15 46 02

MAY 7
U.S.C.G.S.
40.4N, 127.2W
Off coast of California
H = 16 19 05.9
h = 31 km
Penticton
eP 16 21 35
Resolute
eP 16 26 16

MAY 7
U.S.C.G.S.
56.4N, 155.8W
Near Kodiak Island,
H = 21 58 44.1
h = 25 km
Resolute
eP 22 04 50?

MAY 8
U.S.C.G.S.
31.3S, 67.4W
Argentina
H = 01 54 17.1
h = 84 km
Shawinigan Falls
eP 02 06 13

MAY 8
Resolute
iP 10 02 42

MAY 8
Resolute
eP 10 36 52

MAY 8
Resolute
iP 12 50 50

MAY 8
Resolute
iP 14 34 08

MAY 8
U.S.C.G.S.
10.8S, 75.1W
Peru
H = 18 32 03.5
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
iP_1 13 04 22.6
iS_1 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 13
Resolute
eP 16 17 36

MAY 13
Resolute
eP? 17 32 47

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 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 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 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 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 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 15
Victoria
eP 21 57 17

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 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 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 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

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
Resolute
iP 09 35 55 c
Shawinigan Falls
eP 09 32 38
Victoria
eP 09 33 59

MAY 19
Banff
eP 14 50 18
Resolute
eP 14 54 52?
Victoria
eP 14 49 44

MAY 19
U.S.C.G.S.
24.1N, 123.4E
Ryukyu Islands
H = 16 37 28.9
h = 71 km
Resolute
iP 16 49 25 c

MAY 19
Canadian Arctic
H = 22 00 21
Mag 4.4
Resolute
iP_n 22 02 41 d
eS_n 22 04 22
L_g 22 05 23
D = 1100 km

MAY 20
Resolute
eP 00 51 16

MAY 20
U.S.C.G.S.
44.0N, 148.8E
Kurile Islands
H = 11 51 01.2
h = 59 km
Resolute
eP 12 00 23

MAY 20
Resolute
eP 22 50 46

MAY 21
Resolute
eP 02 27 58?

MAY 21
Resolute
eP? 03 48 22

MAY 21
Resolute
iP 05 34 00 c

MAY 21
Resolute
eP? 06 19 39

MAY 21
Resolute
eP? 08 05 41

MAY 21
U.S.C.G.S.
23.7N, 123.5E
Ryukyu Islands
H = 10 13 47.7
h = 63 km
Resolute
eP 10 25 45 c?

MAY 21
Canadian Arctic
H = 11 56 01.5
Mag 1.1
Resolute
iP_1 11 56 07.0
iS_1 11 56 11.2
D = 34.4 km

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 15 22 28

MAY 21
U.S.C.G.S.
3.1S, 80.9W
Near coast of Ecuador
H = 17 41 28.2
h = 27 km
Resolute
eP 17 53 26?
Shawinigan Falls
eP 17 50 22

MAY 21
Resolute
eP 19 26 44

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

DOMINION OBSERVATORIES

MAY 22
U.S.C.G.S.
25.0S, 67.3W
Argentina
H = 01 19 05.1
h = 273 km
Shawinigan Falls
ePn 01 30 03

MAY 22
Washington, U.S.A.
H = 01 57 55
Mag 2.6
Penticton
ePn 01 58 21.7
iSn 01 58 40.9
D = 164 km
Victoria
ePn 01 58 30.5
eSn 01 59 00.0
D = 233 km

MAY 22
Resolute
eP? 03 03 32

MAY 22
U.S.C.G.S.
49.0N, 155.6E
Kurile Islands
H = 08 57 15.0
h = 32 km
Banff
eP 09 06 36
Resolute
iP 09 05 53
Shawinigan Falls
eP 09 09 00
Victoria
eP 09 06 15

MAY 22
U.S.C.G.S.
21.3S, 174.4W
Tonga Islands
H = 13 44 35.8
h = 97 km
Mag 6
Alberni
eP 13 56 54
Banff
eP 13 57 22
Penticton
eP 13 57 07
Resolute
eP' 14 03 03?
eS 14 10 53?
Victoria
eP 13 56 54

MAY 22
Resolute
eP 14 42 33

MAY 22
U.S.C.G.S.
22.8S, 176.1W
Tonga Islands
H = 17 32 21.6
h = 35 km
Mag 6 1/2
Alberni
eP 17 44 57
Banff
eP 17 45 23
Halifax
iP' 17 51 14 d
e 18 01 16 c
Penticton
iP 17 45 00
Resolute
eP 17 46 50?
e 17 50 50?
Shawinigan Falls
eP' 17 51 02
Victoria
eP 17 44 58 c

MAY 22
Canadian Arctic
H = 21 05 30.0
h = 9 km
Mag 2.6
Resolute
Pn 21 06 04.5
P1 21 06 06.7
i 21 06 24.5
Sn 21 06 30.0
i 21 06 33.5
S1 21 06 34.5
D = 228 km

MAY 22
U.S.C.G.S.
22.6S, 177.0W
Tonga Islands region
H = 23 47 03.2
h = 526 km
Banff
eP 23 59 15
Victoria
eP 23 58 49

MAY 23
U.S.C.G.S.
36.4N, 28.3E
Dodecanese Islands
H = 02 45 16.0
h = 49 km
Mag 6 1/4
Banff
eP 02 57 58 c
Halifax
eP 02 56 03.5
Ottawa
eP 02 56 47
Resolute
eP 02 55 39
eS 03 04 03 ?
Shawinigan Falls
eP 02 56 32 c
Victoria
eP 02 58 19

MAY 23
U.S.C.G.S.
9.8N, 84.0W
Costa Rica
H = 03 40 26.1
h = 136 km
Banff
eP 03 48 58
Halifax
iP 03 48 00
iP 03 50 28.5 c
Ottawa
eP 03 47 20
Resolute
eP 03 50 54
i 03 53 38
Shawinigan Falls
eP 03 47 34
Victoria
eP 03 49 15

MAY 23
Washington, U.S.A.
H = 03 49 31
Mag 2.7
Alberni
ePn 03 50 00.3
eSn 03 50 22.3
D = 188 km
Victoria
iP1 03 49 45.9
iS1 03 49 57.9
D = 94 km

MAY 23
Resolute
eP 06 14 04

MAY 23
Canadian Arctic
foreshock
H = 11 30 11
Mag 3.9
Resolute
ePn 11 31 45
iSn 11 32 53
Lg 11 33 25
D = 725 km

MAY 23
Canadian Arctic
H = 12 02 28
Mag 4.5
Resolute
ePn 12 04 02
iSn 12 05 10
Lg 12 05 40
D = 725 km

MAY 23
Canadian Arctic
aftershock
H = 12 45 04
Mag 4.0
Resolute
ePn 12 46 38
iSn 12 47 46
Lg 12 48 20
D = 725 km

MAY 23
Resolute
eP 16 25 20

MAY 23
U.S.C.G.S.
12.6N, 87.3W
Near coast of
Nicaragua
H = 16 44 59.4
h = 138 km
Mag 6 1/2
Banff
eP 16 53 03
Halifax
eP 16 52 08 c
Ottawa
eP 16 51 35 c
Resolute
iP 16 55 09 c
eS 17 03 24
Shawinigan Falls
eP 16 51 52
Victoria
iP 16 53 17 c
e 16 53 47

MAY 23
Resolute
eP 17 09 16?

MAY 24
Resolute
eP 13 06 55

MAY 24
45.5N, 128.5W
Off coast of
Washington, U.S.A.
H = 13 34 46
Mag 4.0
Alberni
ePn 13 36 04.9
eSn 13 37 07.8
D = 511 km
Penticton
iPn 13 36 24.6
i 13 37 05.4
D = 756 km
Resolute
eP 13 41 21
Victoria
ePn 13 35 56.0
eSn 13 36 59.8
D = 523 km

MAY 25
U.S.C.G.S.
27.2S, 71.3W
Near coast of Chile
H = 04 44 15.1
h = 46 km
Alberni
e 05 00 02
Shawinigan Falls
eP 04 55 46
Victoria
e 05 00 19

DOMINION OBSERVATORIES

MAY 25
U.S.C.G.S.
31.3N, 139.9E
South of Honshu
Japan
H = 09 18 48.4
h = 171 km
Resolute
eP 09 29 35
Victoria
eP 09 29 54

MAY 25
Resolute
eP 19 17 01
Shawinigan Falls
eP 19 20 11

MAY 25
Resolute
eP? 22 56 10

MAY 26
U.S.C.G.S.
32.7S, 109.1W
Easter Island region
H = 04 36 08.5
h = 43 km
Shawinigan Falls
eP 04 48 46

MAY 26
U.S.C.G.S.
15.4N, 91.9W
Western Guatemala
H = 05 06 27.0
h = 123 km
Ottawa
eP 05 12 52 c
Resolute
eP 05 16 17
i 05 17 06
Shawinigan Falls
eP 05 13 10 c

MAY 26
46.1N, 123.0W
Near Longview
Washington, U.S.A.
H = 05 50 45
Mag 3.0
Alberni
eP 05 51 39.2
D = 385 km
Penticton
eP_n 05 51 46.1
iS_n 05 52 33.1
D = 442 km
Victoria
iP_n 05 51 24.1
iS_n 05 51 56.1
D = 262 km

MAY 26
H = 06 27 57
Mag 2.1
Penticton
iP_1 06 28 21.7
iS_1 06 28 40.2
D = 152 km

MAY 26
U.S.C.G.S.
38.4N, 142.9E
Near coast of
Honshu, Japan
H = 22 49 49.4
h = 60 km
Resolute
eP 22 59 58 c?

MAY 27
U.S.C.G.S.
36.8N, 70.9E
Hindu Kush
H = 05 14 43.7
h = 92 km
Resolute
eP 05 25 37

MAY 27
U.S.C.G.S.
41.0N, 142.1E
Near coast of
Honshu, Japan
H = 07 18 12.2
h = 156 km
Banff
eP 07 28 47
Penticton
eP 07 28 37
Resolute
iP 07 27 55 c
i 07 28 12
Shawinigan Falls
eP 07 30 46
Victoria
eP 07 28 28

MAY 27
Resolute
iP 10 33 12
i 10 33 29

MAY 27
Resolute
eP? 13 27 03

MAY 27
U.S.C.G.S.
15.8N, 119.2E
Philippine Islands
H = 22 38 35.5
h = 92 km
Resolute
eP 22 51 14

MAY 28
Resolute
iP 20 23 38 c?

MAY 29
Resolute
eP 00 05 04

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
iP_1 11 38 57.9
iS_1 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
eP_1 19 57 02.9
eS_1 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
eP_1 08 21 06.1
eS_1 08 21 22.5
D = 127 km
Victoria
iP_1 08 20 49.9
iS_1 08 20 53.0
D = 26 km

JUNE 3
H = 21 36 07
Mag 2.3
Alberni
eP_1 21 36 16.9
eS_1 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 4
47.8N, 123.8W
Olympic Mountains
Washington U.S.A.
H = 16 40 45
Mag 2.9
Alberni
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 4
Resolute
eP 16 54 08?

JUNE 4
Resolute
eP 18 48 34?

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 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 5
Resolute
eP 12 02 17

JUNE 5
H = 22 58 28
Mag 3.7
Penticton
eP_n 22 59 51.3
eS_n 23 00 07.8
D = 626 km

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 6
Resolute
eP 02 23 11?

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

JUNE 6
Ottawa
eP 21 57 57

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 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 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 8
Resolute
eP 19 03 38?

SEISMOLOGICAL BULLETIN - 1961

JUNE 8
Canadian Arctic
H = 22 04 06.0
Mag 0.8
Resolute
iP_1 22 04 10.6
iS_1 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
H = 23 39 22
Mag 2.3
Penticton
eP_1 23 39 48.0
eS_1 23 40 08.1
D = 164 km

JUNE 11
U.S.C.G.S.
51.4N, 159.2E
Kamchatka
H = 04 02 41.3
h = 24 km
Resolute
eP 04 10 58

JUNE 11
U.S.C.G.S.
28.9N, 54.6E
Iran
H = 05 10 26.0
h = 38 km
Banff
eP 05 24 15
Halifax
eP 05 23 19 d
Ottawa
eP 05 23 43
Penticton
eP 05 24 29
Resolute
eP 05 22 10
PP 05 25 08?
PPP 05 26 52?
eS 05 31 57
Shawinigan Falls
eP 05 23 34
Victoria
eP 05 24 34

JUNE 11
U.S.C.G.S.
27.3N, 54.5E
Iran
H = 05 30 05.9
h = 25 km
Ottawa
eP 05 43 30
Resolute
eP 05 41 56
Shawinigan Falls
eP 05 43 19

JUNE 11
U.S.C.G.S.
51.4N, 159.3E
Near coast of
Kamchatka
H = 05 52 51.7
h = 18 km
Resolute
eP 06 01 08
Shawinigan Falls
eP 06 04 31 d

JUNE 11
U.S.C.G.S.
29.3N, 55.2E
Iran
H = 06 46 54.1
h = 25 km
Resolute
eP 06 58 33

JUNE 11
U.S.C.G.S.
28.1N, 54.7E
Iran
H = 06 51 29.0
h = 42 km
Resolute
eP 07 03 12

JUNE 11
Resolute
eP 07 42 06?

JUNE 11
U.S.C.G.S.
28.0N, 54.6E
Iran
H = 12 31 26.8
h = 36 km
Ottawa
eP 12 44 45
Resolute
eP 12 43 12
eS? 12 52 55
Shawinigan Falls
eP 12 44 35

JUNE 11
U.S.C.G.S.
27.6N, 54.6E
Iran
H = 13 57 58.6
h = 63 km
Resolute
eP 14 09 43
Shawinigan Falls
eP 14 11 08

JUNE 11
Resolute
eP 17 11 50

JUNE 11
U.S.C.G.S.
24.3N, 98.4E
Burma-China
border
H = 17 15 30.0
h = 38 km
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
Penticton
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?
Penticton
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
Penticton
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
Penticton
eP 18 55 23.1
eS_1 18 55 40.2
D = 139 km

DOMINION OBSERVATORIES

JUNE 14
U.S.C.G.S.
10.8N, 40.1E
Ethiopia
H = 20 32 24.0
h = 56 km
Resolute
eP 20 45 22?

JUNE 14
U.S.C.G.S.
52.0N, 172.2W
Fox Islands
H = 23 50 44.0
h = 100 km
Penticton
eP 23 57 14
Resolute
e 23 59 57

JUNE 15
U.S.C.G.S.
27.8N, 54.8E
Iran
H = 06 21 40.1
h = 113 km
Resolute
eP 06 33 19?

JUNE 15
H = 12 18 12
Mag 2.6
Penticton
eP_n 12 18 50.2
eS_n 12 19 22.2
D = 262 km

JUNE 15
H = 19 14 01
Mag 2.0
Penticton
eP_1 19 14 22.8
eS_1 19 14 39.2
D = 134 km

JUNE 15
48.2N, 122.7W
Entrance to
Puget Sound
H = 21 58 27
Mag 2.2
Alberni
eP_n 21 58 57.2
eS_n 21 58 11.4
D = 195 km
Victoria
eP_1 21 58 37.7
eS_1 21 58 46.1
D = 69 km

JUNE 15
U.S.C.G.S.
51.7N, 158.8E
Near coast of
Kamchatka
H = 22 25 50.6
h = 25 km
Resolute
eP 22 34 04
Shawinigan Falls
eP 22 37 28 c

JUNE 15
U.S.C.G.S.
39.9N, 146.2E
Off coast of
Honshu, Japan
H = 22 38 54.7
h = 78 km
Resolute
eP 22 48 47 c

JUNE 15
45.4N, 151.3E
Kurile Islands
H = 23 24 40.5
h = 38 km
Halifax
iP 23 37 16.5 d
Ottawa
eP 23 36 50
Penticton
eP 23 34 26
Resolute
iP 23 33 51 c
eS 23 41 13
S_cS? 23 43 37
Shawinigan Falls
eP 23 36 52
Victoria
eP 23 34 13

JUNE 16
U.S.C.G.S.
45.6N, 151.3E
Kurile Islands
H = 03 17 56.5
h = 25 km
Resolute
eP? 03 27 03?

JUNE 16
Penticton
eP 06 38 29
Resolute
e 06 41 05

JUNE 16
H = 07 15 29
Mag 2.1
Penticton
eP_1 07 15 52.3
eS_1 07 16 09.8
D = 144 km

JUNE 16
U.S.C.G.S.
41.1S, 74.5W
Off coast of
southern Chile
H = 07 08 16.5
h = 17 km
Halifax
iP 07 21 01.5c
Ottawa
eP 07 21 00

Shawinigan Falls
eP 07 21 07

JUNE 16
49.0N, 121.6W
South of Hope, B.C.
H = 08 17 26
Mag 2.0
Penticton
eP_1 08 17 47.5
eS_1 08 18 04.0
D = 135 km
Victoria
eP_1 08 17 46.7
D = 130 km

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
Resolute
eP 11 10 13?

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 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
Canadian Arctic
H = 07 38 48.9
Mag 1.3
Resolute
iP_1 07 38 57.3
iS_1 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
Resolute
eP 11 09 18?
i 11 19 53
Shawinigan Falls
eP 11 06 24

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 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
Resolute
eP? 15 38 03

JUNE 17
U.S.C.G.S.
14.5N, 92.1W
Near coast of
Guatemala
H = 18 39 51.4
h = 105 km
Alberni
eP 18 47 55
Halifax
eP 18 47 08.5 d
Ottawa
eP 18 46 27
Penticton
eP 18 47 33
Resolute
eP 18 49 50
Shawinigan Falls
eP 18 46 45
Victoria
eP 18 47 43 d

JUNE 17
U.S.C.G.S.
20.8S, 178.9W
Fiji Islands region
H = 21 49 25.8
h = 627 km
Penticton
eP 22 01 12

JUNE 18
U.S.C.G.S.
5.9S, 113.0E
Java Sea
H = 03 12 35.7
h = 641 km
Alberni
eP' 03 30 12
Banff
eP' 03 30 19 d
Halifax
iP' 03 30 57.5 c
Ottawa
eP' 03 30 50
i 03 33 38
Penticton
eP 03 30 17 d
Resolute
eP 03 26 00?
i 03 29 59
Shawinigan Falls
eP' 03 30 49
i 03 33 36 c
Victoria
eP' 03 30 14 d

JUNE 18
46.8N, 123.6W
Southwest Washington
U.S.A.
H = 09 12 32
Mag 2.8
Alberni
eP_n 09 13 13.9
D = 286 km
Victoria
eP_n 09 13 02.2
eS_n 09 13 25.4
D = 190 km

JUNE 18
U.S.C.G.S.
31.3S, 179.8E
Kermadec Islands
region
H = 13 55 16.6
h = 434 km
Ottawa
eP' 14 13 21
i 14 16 17
Penticton
eP 14 08 02
Resolute
iP' 14 13 16 d
i 14 13 30
Shawinigan Falls
eP' 14 13 27 d

JUNE 19
Penticton
eP 01 41 51

JUNE 19
U.S.C.G.S.
12.6N, 121.9E
Luzon
Philippine Islands
H = 01 45 29.9
h = 120 km
Resolute
iP 01 58 20
eS? 02 09 12
Shawinigan Falls
eP' 02 04 12

JUNE 19
U.S.C.G.S.
12.5N, 122.2E
Near coast of Luzon
Philippine Islands
H = 02 22 48.3
h = 20 km
Resolute
eP 02 35 48

JUNE 19
U.S.C.G.S.
39.3N, 142.9E
Off coast of Honshu,
Japan
H = 02 46 03.6
h = 85 km
Resolute
eP 02 56 03 c?

JUNE 19
Resolute
eP 07 05 25

JUNE 19
U.S.C.G.S.
39.2N, 142.9E
Off coast of
Honshu, Japan
H = 07 38 29.6
h = 98 km
Resolute
eP 07 48 30
eS 07 56 43
S_cS? 07 58 18?

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

JUNE 19
Resolute
eP 08 34 03?

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
eP_1 11 47 12.7
eS_1 11 47 29.5
D = 138 km
Victoria
eP_n 11 47 13.2
D = 141 km

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

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

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?

JUNE 20
Ottawa
eP 09 55 20
Penticton
eP 09 56 58
Resolute
eP 09 59 00
Shawinigan Falls
eP 09 55 37

JUNE 20
H = 19 01 03
Mag 1.9
Penticton
eP_1 19 01 24.6
eS_1 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

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

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

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

JUNE 21
Resolute
eP 16 15 04

JUNE 21
Resolute
eP 19 06 14

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

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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
iP_1 22 47 35.4
iS_1 22 47 42.6
D = 59 km

JUNE 24
H = 23 33 04
Mag 1.9
Alberni
iP_1 23 33 13.3
iS_1 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.
40.5N, 144.6E
Off coast of
Honshu, Japan
H = 12 18 53.3
h = 24 km
Resolute
eP 12 28 51
i 12 29 00

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
iP_1 19 10 54.9
iS_1 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

JUNE 25
Resolute
eP 19 45 35

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 26
Resolute
eP? 03 00 45

JUNE 26
Resolute
iP 07 20 20 c?

JUNE 26
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
Ottawa
eP 14 58 07
Resolute
iP 14 55 05 c?
Shawinigan Falls
eP 14 58 09 c
Victoria
eP 14 55 02

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.
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?
Shawinigan Falls
eP 03 17 06

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
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 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 27
Resolute
eP 10 57 48

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 27
Resolute
iP 19 25 00 d?

JUNE 27
Resolute
eP 20 33 42

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JUNE 27
H = 21 49 28
Mag 2.3
Penticton
eP_n 21 49 49.3
eS_n 21 50 05.6
D = 133 km

JUNE 28
Resolute
eP 01 27 36

JUNE 28
U.S.C.G.S.
31.2N, 104.0E
China
H = 04 21 53.8
h = 34 km
Resolute
eP 04 33 26

JUNE 28
H = 10 22 46
Mag 3.0
Penticton
iP_n 10 23 15.0
D = 186 km
Victoria
eP_n 10 23 24.6
eS_n 10 23 57.0
D = 266 km

JUNE 28
Resolute
P 15 39 55.5 d
S 15 42 43.5
L 15 44 38?
D = 1850 km
Mag 4.9
Shawinigan Falls
L = 15 54 18
D = 3910 km?
Victoria
eP 15 44 09

JUNE 28
Banff
eP 19 21 11
Montreal
eL 19 36 17
D = 3930 km?
Resolute
P 19 21 44 c
S 19 24 32
L 19 26 32
D = 1850 km?
Mag 5.1
Shawinigan Falls
L 19 36 00
D = 3860 km?

JUNE 28
Victoria
eP 19 26 15

JUNE 28
Alberni
eP 20 49 10

JUNE 28
Alberni
eP 21 26 17

JUNE 28
H = 22 48 00
Mag 1.8
Penticton
eP_1 22 48 23.3
eS_1 22 48 41.2
D = 147 km

JUNE 28
Resolute
P 22 56 19 d
S 22 59 09?
L 23 01 08
D = 1875 km?
Shawinigan Falls
L 23 11 00
D = 3960 km?

JUNE 29
U.S.C.G.S.
13.8S, 166.0E
New Hebrides
H = 09 22 55.8
h = 37 km
Mag 6 1/4
Halifax
iP' 09 42 06 d
Ottawa
eP' 09 41 44
Penticton
eP 09 36 57
Resolute
eP 09 37 06?
e 09 41 20
Shawinigan Falls
eP' 09 41 48
Victoria
eP 09 35 45 c

JUNE 29
Resolute
eP 11 44 02

JUNE 29
U.S.C.G.S.
52.2N, 173.4W
Andreanof Islands
H = 14 02 42.5
h = 76 km
Alberni
eP 14 08 56
Ottawa
eP 14 12 42
Penticton
eP 14 09 19
Resolute
eP 14 09 51
i 14 12 08
Shawinigan Falls
eP 14 12 46
Victoria
eP 14 09 02 c

DOMINION OBSERVATORIES

JUNE 29
Canadian Arctic
H = 19 31 19.4
Mag 1.3
Resolute
iP_1 19 31 26
iS_1 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
eP_1 23 53 49.4
eS_1 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 seismictraces 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 aftershock.

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.

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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.

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.

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
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SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

1961-1
(Continued)

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of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1962

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JULY - AUGUST 1961

NOTES

1.	Alberni	Not operating from September 23 - 30 inclusive.
2.	Alert, N.W.T.	Commenced operations September 29. Calibration curves will be published in October - December bulletin. Mr. W.R. Darker is operator-in-charge of Alert Seismological Station.
3.	Resolute, N.W.T.	Mr. C.H. McCloughan succeeded Mr. M.I. Strader as operator-in-charge of the Seismological Station on August 10, 1961.

DOMINION OBSERVATORIES

JULY 1
U.S.C.G.S.
53.9N, 164.3W
Unimak Island
H = 00 02 39.2
h = 34 km
Penticton
eP 00 08 29
Shawinigan Falls
eP 00 12 12
Victoria
eP 00 08 13

JULY 1
Canadian Arctic
H = 02 06 28.1
Mag 1.4
Resolute
iP_1 02 06 34.5
iS_1 02 06 39.4
D = 40.2 km

JULY 1
U.S.C.G.S.
29.8N, 140.5E
Bonin Islands
H = 08 00 15.4
h = 181 km
Penticton
eP 08 11 33
Resolute
eP 08 11 09
Victoria
eP 08 11 23

JULY 1
47.9N, 123.7W
Olympic Mountains,
Washington, U.S.A.
H = 08 59 59
Mag 2.2
Alberni
eP_1 09 00 26.5
eS_1 09 00 47.2
D = 169 km

Victoria
eP_1 09 00 09.5
eS_1 09 00 17.4
D = 65 km

JULY 1
47.8N, 123.8W
Olympic Mountains
Washington, U.S.A.
H = 09 24 36
Mag 2.3
Alberni
eP_n 09 25 05.7
eS_n 09 25 28.0
D = 189 km
Victoria
eP_1 09 24 49.5
eS_1 09 24 57.4
D = 84 km

JULY 1
Resolute
eP 12 54 40

JULY 1
U.S.C.G.S.
15.3S, 75.0W
Near coast of Peru
H = 13 10 46.6
h = 146 km
Banff
eP 13 22 56
Halifax
iP 13 20 47 d
Ottawa
eP 13 20 45
Penticton
eP 13 22 20 c
Resolute
eP 13 23 38
Shawinigan Falls
eP 13 20 51 c
Victoria
eP 13 22 28

JULY 1
U.S.C.G.S.
17.9S, 178.4W
Fiji Islands
H = 18 50 57.5
h = 601 km
Penticton
eP 19 02 35
Victoria
eP 19 02 22

JULY 1
U.S.C.G.S.
53.7N, 169.8E
Near Islands
H = 23 44 05.7
h = 19 km
Ottawa
eP 23 54 57
Penticton
eP 23 52 04
Resolute
eP 23 51 47
Shawinigan Falls
eP 23 55 00 c

JULY 2
U.S.C.G.S.
42.8N, 143.1E
Hokkaido Japan
H = 02 07 14.4
h = 151 km
Ottawa
eP 02 19 40
Resolute
iP 02 16 46 c

JULY 2
H = 07 28 28
Mag 2.5
Penticton
eP_n 07 29 16.3
eS_n 07 29 57.6
D = 338 km

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JULY 2
U.S.C.G.S.
20.7N, 142.6E
Bonin Islands
H = 10 10 16.3
h = 64 km
Resolute
eP 10 22 10

JULY 2
H = 16 54 03
Alberni
eP_1 16 54 17.5
eS_1 16 54 29.1
D = 95 km
Victoria
eP_1 16 54 28.3
eS_1 16 54 47.5
D = 160 km

JULY 3
U.S.C.G.S.
8.6S, 79.2W
Near coast of Peru
H = 14 49 30.8
h = 86 km
Ottawa
eP 14 58 50
Penticton
eP 15 00 24
Resolute
eP 15 01 54
Shawinigan Falls
eP 14 59 01
Victoria
eP 15 00 32

JULY 3
Canadian Arctic
H = 22 57 07
Mag 1.9
Resolute
iP_1 22 57 15.0
iS_1 22 57 21.1
D = 50 km

JULY 4
H = 03 04 41
Penticton
eP_n 03 05 39.3
eS_n 03 06 13.5
D = 280 km

JULY 4
Canadian Arctic
H = 04 49 05.9
Mag 1.5
Resolute
iP_1 04 49 23
iS_1 04 49 36
D = 106.5 km

JULY 4
U.S.C.G.S.
40.8N, 118.0W
Western Nevada
H = 04 56 03.7
h = 61 km
Mag 5 3/4
Halifax
iP 05 03 32.5 c
Ottawa
eP 05 02 18
Penticton
eP 04 58 07
Resolute
eP 05 02 57
Victoria
eP 04 58 07

JULY 4
Canadian Arctic
H = 05 39 37.9
Mag 1.5
Resolute
iP_1 05 39 55
iS_1 05 40 08
D = 106.5 km

JULY 4
Canadian Arctic
H = 06 17 56.9
Mag 1.4
Resolute
iP_1 06 18 14
iS_1 06 18 27
D = 106.5 km

JULY 4
U.S.C.G.S.
17.9N, 146.4E
Mariana Islands
H = 06 10 44.8
h = 145 km
Penticton
eP 06 22 38
Resolute
iP 06 22 42
Victoria
eP 06 22 25

JULY 4
Canadian Arctic
H = 07 17 55.9
Mag 1.8
Resolute
iP_1 07 18 13
iS_1 07 18 26
D = 106.5 km

JULY 4
Canadian Arctic
H = 10 20 41.9
Mag 2.1
Resolute
iP_1 10 20 59
iS_1 10 21 12
D = 106.5 km

JULY 4
U.S.C.G.S.
40.8N, 117.8W
Western Nevada
H = 11 09 10.6
h = 43 km
Mag 5 1/4

DOMINION OBSERVATORIES

Penticton
eP 11 11 16

JULY 4
Victoria
eP 11 13 36

JULY 4
Resolute
eP 23 00 43?

JULY 5
U.S.C.G.S.
29.2N, 129.5E
Ryukyu Islands
H = 02 22 02.9
h = 97 km
Resolute
eP 02 33 23 c?

JULY 5
U.S.C.G.S.
58.2S, 150.4E
Southwest of
Macquarie Island
H = 02 28 38.2
h = 25 km
Ottawa
eP_1' 02 48 33
Shawinigan Falls
eP_1' 02 48 44

JULY 5
U.S.C.G.S.
15.1N, 60.4W
Windward Islands
H = 05 02 28.9
h = 91 km
Ottawa
eP 05 08 57 c
Penticton
eP 05 12 26
Shawinigan Falls
eP 05 08 59
Victoria
eP 05 12 36

JULY 5
Penticton
eP_1 11 44 37.9

JULY 5
50°18'N, 66°43'W
About 20 miles
northwest of
Sept-Iles, Quebec
H = 22 43 44.1
Mag 5.0
Halifax
iP_n 22 45 11.0 d
i 22 45 20.3
eS_n 22 46 14.3
eL_g 22 46 45(?)
D = 670 km
Montreal
eP_n 22 45 19.6
i 22 45 28.8
i 22 45 37.1
iS_n 22 46 28.5
L_g 22 47 02
D = 740 km
Ottawa
eP_n 22 45 36
iS_n 22 46 56.2
L_g 22 47 40 (?)
D = 870 km
Resolute
e 22 57 52
Shawinigan Falls
eP_n 22 45 04.0
iS_n 22 46 00.6
L_g 22 46 29.1
D = 600 km

JULY 6
Resolute
eP? 05 47 54

JULY 6
H = 13 58 21
Victoria
eP_1 13 58 34.5
eS_1 13 58 45.7
D = 84 km

JULY 6
U.S.C.G.S.
7.0S, 13.1W
Ascension Island
region
H = 16 08 20.8
h = 19 km
Ottawa
eP 16 20 11 c
Resolute
eP 16 21 43
Shawinigan Falls
eP 16 20 04 c

JULY 6
Alberni
eP_n 18 23 34.1
Victoria
eP_n 18 23 46.8

JULY 6
U.S.C.G.S.
20.0S, 169.0E
New Hebrides Islands
H = 22 09 31.4
h = 47 km
Mag 6 1/2
Alberni
eP 22 22 33
Banff
eP 22 21 47
Halifax
eP' 22 28 38 c
i 22 31 57 d
Ottawa
eP' 22 28 20 c
Resolute
eP 22 24 04
P' 22 28 00
e 22 38 59
Shawinigan Falls
eP' 22 28 13
e 22 28 25
Victoria
iP 22 22 34 c

JULY 7
U.S.C.G.S.
5.7S, 149.7E
New Britain
H = 13 10 43.8
h = 57 km
Mag 6 1/4
Halifax
P' 13 29 56.5
Ottawa
eP' 13 29 40
Shawinigan Falls
eP' 13 29 43

JULY 7
U.S.C.G.S.
53.5N, 159.9E
Near east coast
of Kamchatka
H = 15 28 14.5
h = 20 km
Resolute
eP 15 36 15

JULY 7
H = 19 08 05
Penticton
eP_n 19 08 42.2
eS_n 19 09 12.9
D = 252 km

JULY 7
U.S.C.G.S.
20.1S, 169.2E
Loyalty Islands region
H = 22 19 34.2
h = 89 km
Mag 5
Halifax
eP' 22 38 39 d?
Penticton
eP 22 32 45
Shawinigan Falls
eP' 22 38 24 c
Victoria
eP 22 32 33 c

JULY 7
H = 22 51 22
Penticton
eP_n 22 51 49.8
eS_n 22 52 11.0
D = 174 km

JULY 7
Penticton
eP 23 00 16
Victoria
eP 23 00 03

JULY 8
U.S.C.G.S.
20.0S, 168.8E
Loyalty Islands
H = 02 35 20.1
h = 52 km
Halifax
eP' 02 54 28
Penticton
eP 02 48 36
Shawinigan Falls
eP' 02 54 16
Victoria
eP 02 48 23

JULY 8
U.S.C.G.S.
20.6S, 169.1E
Loyalty Islands
region
H = 03 25 19.5
h = 25 km
Shawinigan Falls
iP' 03 44 19 d

JULY 8
H = 05 49 15
Alberni
eP_1 05 49 25.0
eS_1 05 49 32.4
D = 60 km
Victoria
eP_1 05 49 39.6
eS_1 05 49 59.2
D = 152 km

JULY 8
Resolute
eP 08 16 28?

JULY 8
U.S.C.G.S.
20.1S, 169.8E
Loyalty Islands
H = 15 34 38.5
h = 44 km
Ottawa
eP' 15 53 29
Penticton
eP 15 47 55
Shawinigan Falls
eP' 15 53 33
Victoria
eP 15 47 41
e 15 53 18

JULY 8
H = 20 21 06
Penticton
eP_n 20 21 42.5
eS_n 20 22 12.2
D = 243 km

JULY 8
U.S.C.G.S.
20.2S, 169.0E
Loyalty Islands
H = 21 13 59.4
h = 56 km
Halifax
i 21 36 32
Penticton
eP 21 27 17
Shawinigan Falls
eP' 21 33 00
Victoria
eP 21 27 03

JULY 8
U.S.C.G.S.
20.2S, 169.0E
Loyalty Islands region
H = 21 48 46.2
h = 68 km
Penticton
eP 22 02 00
Shawinigan Falls
eP' 22 07 39
Victoria
eP 22 01 54

JULY 8
H = 23 58 58
Alberni
eP_1 23 59 07.1
eS_1 23 59 14.3
D = 59 km
Victoria
eP_1 23 59 23.6
D = 162 km

JULY 9
U.S.C.G.S.
17.0N, 88.5W
British Honduras
H = 04 57 52.7
h = 150 km
Penticton
eP 05 05 23
Shawinigan Falls
eP 05 04 01
Victoria
eP 05 05 34

JULY 9
U.S.C.G.S.
15.0N, 87.2W
Honduras
H = 06 32 52.4
h = 165 km
Banff
eP 06 40 33
Ottawa
eP 06 39 06
Penticton
eP 06 40 43
Resolute
eP 06 42 45
Shawinigan Falls
eP 06 39 23
Victoria
eP 06 40 54

JULY 9
48°32'N, 122°25'W
Near Anacortes
Washington, U.S.A.
H = 07 44 49
Mag 2.7
Alberni
iP_n 07 45 19.6
eS_n 07 45 41.9
D = 198 km
Penticton
iP_n 07 45 22.6
iS_n 07 45 52.9
D = 223 km
Victoria
iP_1 07 45 00.9 d
iS_1 07 45 09.5
D = 76 km

JULY 9
U.S.C.G.S.
28.8N, 54.7E
Iran
H = 08 05 45.9
h = 25 km
Penticton
e 08 22 38
Resolute
eP 08 17 28
Shawinigan Falls
eP 08 18 50

JULY 9
Penticton
eP 14 01 24

JULY 9
U.S.C.G.S.
51.7N, 176.2E
Rat Islands
H = 16 46 02.0
h = 33 km
Penticton
eP 16 53 34

JULY 10
Penticton
eP 00 36 40

JULY 10
U.S.C.G.S.
19.2S, 68.4W
Chile-Bolivia border
H = 03 49 56.4
h = 117 km
Halifax
iP 04 00 22
Ottawa
eP 04 00 28
Penticton
eP 04 02 09
Shawinigan Falls
eP 04 00 35
Victoria
eP 04 02 16 d

JULY 10
Canadian Arctic
H = 05 06 11.1
Mag 2.4
Resolute
iP_1 05 06 40.5
iS_1 05 07 02.9
D = 184 km

JULY 10
Banff
e 12 22 28
Penticton
eP 12 19 50
Victoria
eP 12 19 07

JULY 10
U.S.C.G.S.
20.7S, 179.5W
Fiji Islands region
H = 12 16 29.4
h = 564 km
Penticton
eP 12 28 23

JULY 10
U.S.C.G.S.
18.4N, 104.9W
Off coast of Mexico
H = 12 54 04.6
h = 20 km
Penticton
eP 13 00 42
Resolute
eP 13 03 48?
Shawinigan Falls
eP 13 01 31 d

JULY 10
U.S.C.G.S.
18.2N, 89.8W
Campeche Mexico
H = 14 18 13.7
h = 56 km
Banff
eP 14 25 30
Penticton
eP 14 24 42
Victoria
eP 14 25 48

JULY 10
Resolute
eP 18 39 32

JULY 10
H = 18 41 30
Penticton
iP_1 18 41 56.0
iS_1 18 42 16.2
D = 166 km

JULY 11
U.S.C.G.S.
43.4N, 149.0E
Off coast of
Hokkaido Japan
H = 01 20 57.8
h = 25 km
Penticton
eP 01 30 55
Resolute
eP 01 30 29

JULY 11
U.S.C.G.S.
27.3S, 177.1W
Kermadec Islands
H = 05 45 29.5
h = 58 km
Penticton
eP 05 58 38
Victoria
eP 05 58 26

JULY 11
U.S.C.G.S.
8.3N, 93.3E
Nicobar Islands
H = 09 31 57.2
h = 163 km
Penticton
eP' 09 50 28
Resolute
eP 09 45 17?
Victoria
eP' 09 50 26

JULY 11
H = 09 54 14
Alberni
eP_1 09 54 26.4
eS_1 09 54 35.9
D = 78 km

JULY 11
U.S.C.G.S.
21.5S, 175.7W
Tonga Islands
H = 16 26 44.1
h = 90 km
Penticton
eP 16 39 23

JULY 11
U.S.C.G.S.
6.7S, 125.8E
Banda Sea
H = 18 35 54.6
h = 579 km
Shawinigan Falls
eP' 18 54 22

JULY 11
H = 23 53 06
Penticton
eP_n 23 53 57.0
d = 364 km

JULY 12
U.S.C.G.S.
4.8N, 82.9W
South of Panama
H = 01 38 25.2
h = 44 km
Penticton
eP 01 47 49

DOMINION OBSERVATORIES

JULY 12
U.S.C.G.S.
3.3N, 127.9E
Molucca Passage
H = 04 47 29.0
h = 92 km
Shawinigan Falls
eP' 05 06 27

JULY 12
H = 07 56 43
Alberni
eP_1 07 57 57.1
eS_1 07 58 08.1
D = 90 km
Victoria
eP_1 07 58 02.3
eS_1 07 58 15.4
D = 107 km

JULY 12
Victoria
eP 08 42 25

JULY 12
Penticton
eP 09 15 07

JULY 12
U.S.C.G.S.
45.2N, 151.0E
Kurile Islands
H = 13 29 56.6
h = 40 km
Penticton
eP 13 39 42
Resolute
eP 13 39 09?
Victoria
eP 13 39 31

JULY 13
U.S.C.G.S.
21.3S, 175.7W
Tonga Islands
H = 13 45 02.4
h = 29 km
Victoria
eP 13 57 34

JULY 13
U.S.C.G.S.
22.8N, 122.7E
Off coast of
Formosa
H = 21 44 38.0
h = 100 km
Banff
eP 21 57 39
Shawinigan Falls
eP' 22 02 42
Victoria
eP 21 57 28

JULY 14
H = 00 06 21
Victoria
eP_1 00 06 28.9
eS_1 00 06 35.1
D = 50 km

JULY 15
U.S.C.G.S.
13.1N, 120.4E
Philippine Islands
H = 00 17 49.5
h = 52 km
Shawinigan Falls
eP' 00 36 37

JULY 15
U.S.C.G.S.
48.4N, 157.6E
Off coast of Kamchatka
H = 05 43 06.7
h = 17 km
Shawinigan Falls
eP 05 54 54

JULY 15
U.S.C.G.S.
6.8S, 116.9E
Java Sea
H = 13 55 26.5
h = 565 km
Shawinigan Falls
eP' 14 13 54

JULY 15
H = 20 46 31
Victoria
eP_n 20 47 05.3
eS_n 20 47 32.6
D = 224 km

JULY 16
U.S.C.G.S.
58.6N, 137.2W
Southeastern Alaska
H = 00 47 53.5
h = 44 km
Resolute
eP 00 52 44?
Victoria
e 00 54 51

JULY 16
49°44'N, 124°55'W
Near Texada Island
H = 01 40 51
Mag 2.8
Alberni
iP_1 01 40 59.7
D = 61 km

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Victoria
eP_1 01 41 16.1
eS_1 01 41 35.3
D = 158 km

JULY 16
Alberni
eP_1 01 56 54.7
eS_1 01 57 02.1
(aftershock of 01 40 51)
Victoria
eP_1 01 58 28.3
eS_1 01 58 35.9
(aftershock of 01 40 51)

JULY 16
U.S.C.G.S.
22.7S, 171.2E
Loyalty Islands
H = 14 01 38.7
h = 56 km
Mag 5 1/2
Victoria
eP 14 14 46

JULY 16
Halifax
eP 21 03 00.3

JULY 16
U.S.C.G.S.
49.3N, 155.1E
Kurile Islands
H = 21 08 45.6
h = 29 km
Banff
iP 21 18 05
Resolute
eP 21 17 24
Shawinigan Falls
eP 21 20 32 d
Victoria
eP 21 17 47

JULY 17
U.S.C.G.S.
16.7N, 97.7W
Oaxaca Mexico
H = 01 01 11.2
h = 74 km
Banff
iP 01 08 17
Halifax
eP 01 08 44
Ottawa
eP 01 07 51
Penticton
eP 01 08 18
Resolute
eP 01 10 58
Shawinigan Falls
eP 01 08 10
Victoria
eP 01 08 25 c

JULY 17
U.S.C.G.S.
17.0N, 97.8W
Oaxaca Mexico
H = 03 30 54.7
h = 77 km
Banff
eP 03 37 58
Shawinigan Falls
eP 03 37 53
Victoria
eP 03 38 06

JULY 17
U.S.C.G.S.
27.1N, 54.5E
Iran
H = 05 13 20.3
h = 59 km
Shawinigan Falls
eP 05 26 31

JULY 17
U.S.C.G.S.
16.5N, 105.0W
Off coast of Mexico
H = 09 08 02.1
h = 60 km
Ottawa
eP 09 15 20
Shawinigan Falls
eP 09 15 41d

JULY 17
U.S.C.G.S.
37.6S, 73.3W
Near coast of
Central Chile
H = 09 17 53.4
h = 100 km
Shawinigan Falls
eP 09 30 29

JULY 17
U.S.C.G.S.
41.2N, 72.4E
Kirghiz, S.S.R.
H = 14 53 28.4
h = 67 km
Shawinigan Falls
eP 15 06 12 d

JULY 17
U.S.C.G.S.
35.7N, 141.2E
Near coast of
Honshu Japan
H = 16 20 22.6
h = 75 km
Banff
eP 16 31 27
Resolute
iP 16 30 47
eS 16 39 22
S_cS? 16 40 40?
Victoria
eP 16 31 12

DOMINION OBSERVATORIES

JULY 18
U.S.C.G.S.
29.4N, 131.6E
Ryukyu Islands
H = 14 03 36.5
h = 21 km
Mag 6 1/2
Banff
iP 14 15 48 d
Halifax
eP 14 17 46.5
Ottawa
eP 14 17 27
Penticton
eP 14 15 42
Resolute
iP 14 14 59 d
PPP 14 19 26?
eS 14 24 16
Shawinigan Falls
eP 14 17 26 d
Victoria
eP 14 15 34

JULY 18
U.S.C.G.S.
29.9N, 131.2E
Ryukyu Islands
H = 14 34 07.3
h = 72 km
Banff
iP 14 46 11 d
Penticton
eP 14 46 06
Resolute
iP 14 45 23 d
Shawinigan Falls
eP 14 47 58
Victoria
eP 14 45 57 d

JULY 18
Resolute
eP 14 54 05

JULY 18
Resolute
eP 15 27 34

JULY 18
Resolute
eP? 15 38 54?

JULY 18
U.S.C.G.S.
29.5N, 131.7E
Ryukyu Islands
H = 15 36 45.4
h = 25 km
Resolute
eP 15 48 10

JULY 18
U.S.C.G.S.
29.5N, 131.2E
Ryukyu Islands
H = 16 20 08.8
h = 62 km
Resolute
iP 16 31 27 d

JULY 18
U.S.C.G.S.
28.0S, 66.4W
Argentina
H = 16 22 48.9
h = 80 km
Shawinigan Falls
eP 16 34 26

JULY 18
Resolute
eP? 16 56 01

JULY 18
U.S.C.G.S.
29.5N, 131.8E
Ryukyu Islands
H = 16 48 34.8
h = 60 km
Resolute
eP 16 59 57

JULY 18
Resolute
eP? 18 28 05

JULY 18
U.S.C.G.S.
29.7N, 131.4E
Ryukyu Islands
H = 18 33 42.4
h = 84 km
Resolute
eP 18 44 57

JULY 18
U.S.C.G.S.
29.3N, 131.6E
Ryukyu Islands
H = 19 29 04.8
h = 60 km
Resolute
eP 19 40 27
? 19 41 19
e 19 44 00
e 19 45 09

SEISMOLOGICAL BULLETIN - 1961

JULY 18
Resolute
eP? 20 03 48

JULY 18
Resolute
eP? 22 07 57

JULY 18
U.S.C.G.S.
29.7N, 131.4E
Ruykyu Islands
H = 23 42 36.5
h = 39 km
Resolute
eP 23 53 58 d

JULY 19
U.S.C.G.S.
40.6N, 139.5E
Off coast of
Honshu Japan
H = 00 10 39.1
h = 25 km
Resolute
eP? 00 20 41

JULY 19
Canadian Arctic
H = 02 59 29.2
h = 33 km
Mag 1.9
Resolute
eP_n 02 59 56.0
iP_1 03 00 01.5
iS_n 03 00 20.3
iS_1 03 00 29.8
D = 232 km

JULY 19
U.S.C.G.S.
58.8S, 25.3W
Sandwich Islands
H = 03 50 42.0
h = 39 km
Resolute
eP' 04 10 04
e 04 13 43

JULY 19
U.S.C.G.S.
29.2N, 131.3E
Ryukyu Islands
H = 05 29 57.6
h = 60 km
Resolute
eP 05 41 18

JULY 19
U.S.C.G.S.
29.6N, 131.7E
Ryukyu Islands
H = 06 33 18.1
h = 27 km
Resolute
eP 06 44 40

JULY 19
Resolute
eP? 06 49 58

JULY 19
Resolute
eP 07 55 14

JULY 19
Resolute
eP? 08 02 25

JULY 19
Resolute
eP 08 12 58

JULY 19
U.S.C.G.S.
37.5N, 142.0E
Off coast of
Honshu Japan
H = 09 19 24.2
h = 25 km
Resolute
eP? 09 29 46

JULY 19
U.S.C.G.S.
29.8N, 131.5E
Ryukyu Islands
H = 10 35 41.4
h = 20 km
Resolute
eP 10 47 02
i 10 47 06

JULY 19
U.S.C.G.S.
29.6N, 131.5E
Ryukyu Islands
H = 11 58 43.7
h = 31 km
Resolute
eP 12 10 06 d?

JULY 19
Resolute
eP? 12 16 48

JULY 19
U.S.C.G.S.
51.7N, 173.4W
Andreanof Islands
H = 22 36 36.5
h = 42 km
Ottawa
eP 22 46 42

Shawinigan Falls
eP 22 46 47

JULY 19
U.S.C.G.S.
37.7N, 20.2E
Near coast of Greece
H = 23 00 56.7
h = 37 km
Halifax
eP 23 11 08.5
Ottawa
eP 23 11 57
Shawinigan Falls
eP 23 11 41

JULY 20
U.S.C.G.S.
18.7N, 103.0W
Off coast of Mexico
H = 08 44 21.1
h = 14 km
Shawinigan Falls
eP 08 51 34

JULY 20
U.S.C.G.S.
28.4N, 133.6E
Ryukyu Islands
H = 09 02 31.9
h = 25 km
Resolute
eP? 09 14 01

JULY 20
U.S.C.G.S.
20.7S, 64.7W
Bolivia
H = 13 18 04.2
h = 128 km
Shawinigan Falls
eP 13 28 55 d

JULY 20
U.S.C.G.S.
31.8S, 177.2W
Kermadec Islands
H = 19 58 03.3
h = 44 km
Halifax
eP' 20 17 07 c

JULY 21
Halifax
eP 04 37 48.5

JULY 21
U.S.C.G.S.
29.6N, 131.6E
Ryukyu Islands
H = 18 50 50.3
h = 16 km
Resolute
eP 19 02 13?

JULY 21
U.S.C.G.S.
29.6N, 131.6E
Ryukyu Islands
H = 22 39 53.2
h = 32 km
Resolute
eP 22 51 15?

JULY 22
Canadian Arctic
H = 13 01 09
Mag 2.1
Resolute
iP_1 13 01 24
iS_1 13 01 35.4
D = 93.5 km

JULY 22
U.S.C.G.S.
39.2N, 70.0E
Kirghiz, S.S.R.
H = 20 53 30.0
h = 222 km
Shawinigan Falls
eP 21 06 04 d
i 21 06 11

JULY 23
U.S.C.G.S.
18.5S, 168.2E
New Hebrides Islands
H = 14 03 39.8
h = 44 km
Mag 5 3/4
Shawinigan Falls
eP' 14 22 34

JULY 23
Resolute
eP? 14 46 06

JULY 23
U.S.C.G.S.
6.9N, 123.5W
Pacific Ocean
H = 14 38 03.5
h = 89 km
Mag 5 3/4
Banff
eP 14 46 11
Halifax
eP 14 48 29
Ottawa
eP 14 47 35
Resolute
eP 14 49 03
Shawinigan Falls
eP 14 47 52
Victoria
eP 14 45 43

JULY 23
U.S.C.G.S.
18.5S, 168.0E
New Hebrides Islands
H = 15 30 22.8
h = 107 km
Shawinigan Falls
eP' 15 49 10
Victoria
eP 15 43 12

JULY 23
U.S.C.G.S.
18.3S, 168.3E
New Hebrides Islands
H = 21 51 07.5
h = 44 km
Banff
eP 22 04 38
Halifax
eP' 22 10 18 d
Ottawa
eP' 22 09 57
Penticton
eP 22 04 18
Resolute
eP 22 05 34
iP' 22 10 02
Shawinigan Falls
eP' 22 10 01
Victoria
eP 22 04 09 d

JULY 23
U.S.C.G.S.
18.4S, 168.3E
New Hebrides Islands
H = 22 01 55.3
h = 37 km
Resolute
eP' 22 20 45?
Shawinigan Falls
eP' 22 20 51

JULY 23
U.S.C.G.S.
18.4S, 167.8E
New Hebrides Islands
H = 23 46 17.2
h = 25 km
Penticton
eP 23 59 30
Shawinigan Falls
eP' 24 05 13

JULY 24
U.S.C.G.S.
21.1S, 179.3W
Fiji Islands
H = 01 30 56.5
h = 642 km
Penticton
eP 01 42 45

JULY 24
U.S.C.G.S.
2.3S, 79.6W
Ecuador
H = 01 53 26.7
h = 25 km
Ottawa
eP 02 02 02
Penticton
eP 02 04 49
Shawinigan Falls
eP 02 02 14 d

JULY 24
Penticton
eP 06 56 49
Victoria
eP 06 56 21

JULY 24
U.S.C.G.S.
0, 124.1E
Celebes Islands
H = 08 48 13.8
h = 159 km
Ottawa
eP' 09 07 12
e 09 10 30
Shawinigan Falls
eP' 09 07 13
e 09 10 30

JULY 24
U.S.C.G.S.
50.6N, 128.9W
Vancouver Island
H = 10 39 23.7
h = 25 km
Mag 3.9
Banff
eP 10 41 35
Penticton
eP 10 41 00
Victoria
eP 10 40 31

JULY 25
49.6N, 114.4W
Crowsnest Pass Area
Alberta
H = 02 33 21
Mag 3.2
Banff
eP_n 02 33 47.3
eS_n 02 34 08.6
D = 204 km
Penticton
eP_n 02 34 09.9
eS_n 02 34 51.9
D = 389 km

DOMINION OBSERVATORIES

JULY 25
U.S.C.G.S.
8.8S, 71.3W
Brazil
H = 02 48 13.5
h = 642 km
Halifax
iP 02 56 43 d
Ottawa
eP 02 56 45
Penticton
eP 02 58 38 d
Resolute
iP 02 59 47
Shawinigan Falls
iP 02 56 43 d
Victoria
eP 02 58 47 d

JULY 25
U.S.C.G.S.
21.0N, 123.6E
Off coast of
Formosa
H = 12 00 59.6
h = 61 km
Resolute
eP 12 13 06?

JULY 25
U.S.C.G.S.
0.0, 124.7E
Celebes Islands
H = 18 39 24.1
h = 43 km
Ottawa
eP' 18 58 36
Penticton
eP 18 52 02
Shawinigan Falls
eP' 18 58 37
Victoria
eP 18 51 52

JULY 25
Shawinigan Falls
eP 21 58 20 d

JULY 25
Canadian Arctic
H = 22 35 29
Mag 1.7
Resolute
iP_1 22 35 45
iS_1 22 35 55
D = 82 km

JULY 25
H = 22 38 32
Penticton
eP_1 22 38 55.0
eS_1 22 39 12.8
D = 146 km

JULY 26
U.S.C.G.S.
35.7S, 104.5W
Southeast of
Easter Island
H = 01 34 18.2
h = 24 km
Ottawa
eP 01 46 52
Shawinigan Falls
eP 01 47 02 c

JULY 26
U.S.C.G.S.
37.1S, 177.3E
New Zealand
H = 09 18 59.9
h = 100 km
Ottawa
eP' 09 37 50 c
Shawinigan Falls
eP' 09 37 55 c

JULY 27
Resolute
eP? 02 41 23

JULY 27
U.S.C.G.S.
18.2S, 69.8W
Bolivia-Chile border
H = 06 09 23.5
h = 31 km
Penticton
eP 06 21 34
Shawinigan Falls
eP 06 20 02

JULY 27
U.S.C.G.S.
35.2N, 25.4E
Aegean Sea
H = 18 35 48.5
h = 65 km
Shawinigan Falls
eP 18 47 00

JULY 28
U.S.C.G.S.
27.0N, 126.6E
Ryukyu Islands
H = 00 34 18.3
h = 136 km
Penticton
eP 00 46 34
Resolute
iP 00 45 46
Victoria
eP 00 46 27

JULY 28
U.S.C.G.S.
2.2S, 77.1W
Ecuador
H = 01 05 30.0
h = 136 km
Mag 6 1/4
Banff
eP 01 15 39

Halifax
iP 01 13 58
Ottawa
eP 01 13 52
Penticton
eP 01 15 44
Resolute
iP 01 17 11
Shawinigan Falls
eP 01 14 01
Victoria
eP 01 15 54 c
e 01 24 27

JULY 28
U.S.C.G.S.
18.6S, 167.7E
New Hebrides Islands
H = 06 11 38.7
h = 41 km
Mag 5 3/4
Ottawa
eP' 06 30 30
Shawinigan Falls
eP' 06 30 36

JULY 28
U.S.C.G.S.
20.0N, 109.2W
Pacific Ocean
H = 10 13 51.1
h = 42 km
Mag 5 1/2
Banff
eP 10 20 10
Halifax
eP 10 22 02
Ottawa
eP 10 21 03
Penticton
eP 10 20 01
Resolute
eP 10 23 26?
eS 10 31 03?
Shawinigan Falls
eP 10 21 27
Victoria
eP 10 20 03

JULY 28
Ottawa
eP 10 45 29 d

JULY 28
45.9N, 122.6W
Northeast of Portland,
Oregon, U.S.A.
H = 14 52 54
Mag 3.1
Banff
e 14 56 31.0
Penticton
eP_n 14 53 56.1
eS_n 14 54 00.0
D = 442 km
Victoria
eP_n 14 53 37.0
eS_n 14 54 13.3
D = 296 km

JULY 28
U.S.C.G.S.
43.4N, 146.1E
Kurile Islands
H = 15 19 40.0
h = 34 km
Banff
eP 15 30 11
Ottawa
eP 15 32 09
Penticton
eP 15 29 53
Resolute
iP 15 29 14
Victoria
eP 15 29 43

JULY 28
Penticton
eP 18 40 51

JULY 28
H = 22 48 02.8
Penticton
eP_n 22 48 33.0
eS_n 22 48 56.0
D = 188 km

JULY 29
U.S.C.G.S.
16.6S, 174.1E
Fiji Islands
H = 10 31 52.5
h = 132 km
Penticton
eP 10 44 37

JULY 29
Penticton
eP 13 01 22

JULY 29
U.S.C.G.S.
23.9S, 176.1W
Tonga Islands region
H = 16 27 19.0
h = 23 km
Mag 5 1/2
Penticton
eP 16 38 37

JULY 29
Banff
eP 21 23 07
Penticton
eP 21 23 09
Victoria
eP 21 23 33

JULY 29
Penticton
eP 21 47 35

JULY 30
Penticton
eP 00 25 36

JULY 30
50.8N, 119.9W
Near Kamloops
H = 01 57 52
Mag 2.1
Penticton
eP_n 01 58 17.1
eS_n 01 58 36.6
D = 160 km

JULY 31
Penticton
eP 20 03 06

JULY 31
H = 23 29 49.8
Penticton
eP_1 23 30 13.1
eS_1 23 30 31.8
D = 145 km

AUGUST 1
U.S.C.G.S.
14.2S, 166.7E
New Hebrides Islands
H = 01 17 44.7
h = 26 km
Penticton
eP 01 30 49

AUGUST 1
U.S.C.G.S.
15.5N, 46.6W
North Atlantic Ocean
H = 03 16 11.2
h = 48 km
Banff
eP 03 26 48
Penticton
eP 03 27 06

AUGUST 1
U.S.C.G.S.
9.8S, 160.5E
Solomon Islands
H = 05 39 53.2
h = 50 km
Mag 6 1/2
Banff
eP 05 53 08
Halifax
eP' 05 58 59.5
Penticton
iP 05 52 54
Resolute
eP 05 53 52?
Victoria
eP 05 52 44

AUGUST 1
U.S.C.G.S.
56.8S, 25.1W
Sandwich Islands
H = 07 21 12.3
h = 44 km
Banff
e 07 43 42
Penticton
eP' 07 40 23
Victoria
eP' 07 40 28
e 07 42 55
e 07 43 51

AUGUST 1
Penticton
eP 09 21 35

AUGUST 1
U.S.C.G.S.
56.6S, 24.0W
Sandwich Islands
H = 09 24 22.4
h = 61 km
Penticton
eP' 09 43 32

AUGUST 1
U.S.C.G.S.
57.1S, 26.1W
Sandwich Islands
H = 09 34 40.7
h = 31 km
Banff
eP' 09 53 49
Penticton
eP' 09 53 59
Victoria
e 09 56 17
e 09 57 18

AUGUST 1
Penticton
eP 10 18 53

AUGUST 1
U.S.C.G.S.
19.1N, 104.1W
Near coast of Mexico
H = 14 30 37.3
h = 58 km
Penticton
eP 14 37 07

AUGUST 1
Penticton
eP 15 01 37

AUGUST 1
Penticton
eP 15 13 11

AUGUST 2
U.S.C.G.S.
56.7S, 24.8W
Sandwich Islands
H = 02 31 24.8
h = 25 km
Penticton
eP' 02 50 38
Resolute
e 02 54 40?
Victoria
e 02 54 04

AUGUST 2
Penticton
eP 09 59 01

AUGUST 2
U.S.C.G.S.
44.5N, 148.7E
Kurile Islands
H = 12 12 03.8
h = 74 km
Banff
eP 12 22 07
Penticton
eP 12 21 58
Resolute
iP 12 21 22
Victoria
eP 12 21 47

AUGUST 2
Penticton
eP 13 35 26

AUGUST 2
U.S.C.G.S.
4.1S, 76.7W
Northern Peru
H = 13 45 44.8
h = 38 km
Penticton
eP 13 56 22

AUGUST 2
U.S.C.G.S.
51.9N, 157.8E
Near coast of
Kamchatka
H = 14 32 27.9
h = 50 km
Penticton
eP 14 41 18

AUGUST 2
Penticton
eP 15 59 04

AUGUST 2
Penticton
eP 17 34 00

AUGUST 2
Penticton
eP 19 00 34

AUGUST 2
H = 19 06 23
Penticton
eP_1 19 06 47.0
eS_1 19 07 05.1
D = 148 km

AUGUST 2
U.S.C.G.S.
12.6S, 165.5E
New Hebrides Islands
H = 20 14 50.2
h = 129 km
Penticton
eP 20 27 40

AUGUST 2
H = 21 54 32
Penticton
eP_1 21 54 58.0
eS_1 21 55 17.5
D = 160 km

AUGUST 2
Penticton
eP 23 14 51

AUGUST 3
Banff
eP 01 35 25

AUGUST 3
H = 02 16 48
Penticton
iP_n 02 17 11.0
iS_n 02 17 32.3
D = 174 km
Victoria
eP_n 02 17 12.1
D = 182 km

AUGUST 3
U.S.C.G.S.
18.2N, 66.2W
Puerto Rico
H = 03 08 02.3
h = 141 km
Banff
eP 03 16 52 d
Halifax
eP 03 13 30.7 d
Ottawa
eP 03 13 45 d
Penticton
iP 03 17 06 d
Resolute
iP 03 17 48
Victoria
eP 03 17 22

AUGUST 3
Penticton
eP 06 20 05

AUGUST 3
U.S.C.G.S.
52.2N, 174.0E
Near Islands
H = 14 24 58.2
h = 41 km
Penticton
eP 14 32 38

DOMINION OBSERVATORIES

AUGUST 3
H = 19 42 32
Penticton
eP_n 19 43 03.3
eS_n 19 43 27.7
D = 200 km

AUGUST 3
H = 21 31 08
Penticton
iP_1 21 31 31.6
eS_1 21 31 49.4
D = 146 km
Victoria
eP_n 21 31 50.5
D = 292 km

AUGUST 3
H = 21 43 30
Penticton
eP_n 21 44 21.0
eS_n 21 44 55.0
D = 278 km

AUGUST 3
H = 21 59 09
Banff
iP_1 21 59 15.6
iS_1 21 59 20.6
D = 41 km

AUGUST 3
Ottawa
eP 23 43 17

AUGUST 3
U.S.C.G.S.
12.1N, 143.8E
Mariana Islands
H = 23 33 37.7
h = 20 km
Banff
eP 23 46 25
Penticton
eP 23 46 15
Resolute
eP 23 46 19
Victoria
eP 23 46 03

AUGUST 4
Penticton
eP 00 01 52

AUGUST 4
U.S.C.G.S.
42.7N, 144.8E
Hokkaido Japan
H = 07 17 43.8
h = 18 km
Penticton
eP 07 28 08
Resolute
eP 07 27 27

AUGUST 4
U.S.C.G.S.
51.4N, 177.4W
Andreanof Islands
H = 10 36 25.7
h = 20 km
Penticton
iP 10 43 30
Victoria
eP 10 43 15

AUGUST 4
U.S.C.G.S.
15.2N, 95.3W
Near coast of
Mexico
H = 11 24 12.8
h = 24 km
Ottawa
eP 11 30 58
Penticton
eP 11 31 41
Shawinigan Falls
eP 11 31 17

AUGUST 4
Banff
eP 14 34 05
Penticton
eP 14 34 14
Victoria
eP 14 33 28

AUGUST 4
Penticton
eP 15 02 37
Victoria
eP 15 01 55

AUGUST 4
U.S.C.G.S.
39.0N, 117.7W
Western Nevada
H = 16 56 09.1
h = 12 km
Penticton
e 17 00 34

AUGUST 4
U.S.C.G.S.
34.8N, 38.7W
North Atlantic Ocean
H = 18 35 20.8
h = 26 km
Halifax
iP 18 40 12.5 d
Ottawa
eP 18 41 31
Resolute
eP 18 44 08?
eS 18 51 12?
Shawinigan Falls
eP 18 41 15

AUGUST 4
U.S.C.G.S.
45.3N, 151.1E
Kurile Islands
H = 22 52 49.2
h = 20 km
Banff
eP 23 02 46

Ottawa
eP 23 05 02
Penticton
eP 23 02 38
Resolute
eP 23 02 06?
eS 23 09 30?
Shawinigan Falls
eP 23 05 03
Victoria
eP 23 02 25

AUGUST 4
Penticton
eP 23 31 55

AUGUST 5
U.S.C.G.S.
13.7S, 166.0E
New Hebrides Islands
H = 01 07 49.1
h = 40 km
Penticton
eP 01 20 51

AUGUST 5
U.S.C.G.S
49.4N, 129.0W
Near coast of
Vancouver Island
H = 01 33 12.2
h = 15 km
Penticton
eP 01 34 44
Victoria
eP 01 34 10

AUGUST 5
U.S.C.G.S.
60.5N, 148.6W
Alaska
H = 02 26 22.4
h = 105 km
Banff
eP 02 30 57
Halifax
eP 02 35 12 d
Ottawa
eP 02 34 22 d
Penticton
iP 02 30 51
Resolute
eP 02 31 26
eS 02 35 39?
Shawinigan Falls
eP 02 34 27
Victoria
eP 02 30 38

AUGUST 5
U.S.C.G.S.
50.5N, 160.5E
Off coast of
Kamchatka
H = 06 10 16.3
h = 25 km
Penticton
eP 06 19 02

AUGUST 5
U.S.C.G.S.
18.8S, 68.2W
Near Chile-Bolivia
border
H = 09 27 45.5
h = 113 km
Banff
eP 09 39 53 d
Halifax
iP 09 38 10.2 d
Ottawa
eP 09 38 15
e 09 38 43
Penticton
iP 09 39 52
Shawinigan Falls
eP 09 38 22?
i 09 38 51
Victoria
eP 09 40 03 d

AUGUST 5
Penticton
eP 11 03 13

AUGUST 5
Canadian Arctic
H = 12 55 50.5
h = 27 km
Mag 3.1
Resolute
iP_n 12 56 26.2
iP_1 12 56 31.1
iS_n 12 56 52
iS_1 12 57 02
D = 252 km

AUGUST 6
Penticton
eP 23 21 24

AUGUST 6
Penticton
eP 23 57 29

AUGUST 7
U.S.C.G.S.
42.2N, 142.1E
Hokkaido Japan
H = 04 02 09.4
h = 24 km
Penticton
eP 04 12 42
Resolute
iP 04 11 59

AUGUST 7
U.S.C.G.S.
28.1S, 176.5W
Kermadec Islands
H = 12 22 23.3
h = 39 km
Penticton
eP 12 35 19
Victoria
eP 12 35 21

DOMINION OBSERVATORIES

AUGUST 7
H = 16 30 20
Penticton
eP_n 16 30 58.6
eS_n 16 31 30.6
D = 262 km

AUGUST 7
U.S.C.G.S.
27.5S, 177.1W
Kermadec Islands
H = 16 57 50.0
h = 60 km
Penticton
eP 17 10 59

AUGUST 7
Victoria
eP 22 40 55

AUGUST 8
Penticton
eP 01 50 25

AUGUST 8
U.S.C.G.S.
51.9N, 176.3W
Andreanof Islands
H = 05 36 28.9
h = 57 km
Banff
eP 05 43 34
Penticton
iP 05 43 20
Victoria
eP 05 43 04

AUGUST 8
Penticton
eP 05 59 59

AUGUST 8
U.S.C.G.S.
24.5S, 116.2W
West of Easter Island
H = 07 49 55.3
h = 38 km
Penticton
eP 08 01 28

AUGUST 8
U.S.C.G.S.
50.9N, 170.7W
Fox Islands
H = 12 18 18.9
h = 24 km
Mag 6
Banff
eP 12 25 06 d
Halifax
iP 12 29 05.5 d
Ottawa
eP 12 28 21
Penticton
iP 12 24 50
Resolute
iP 12 25 39
PP 12 27 08
eS 12 31 24
Shawinigan Falls
eP 12 28 29
Victoria
eP 12 24 33 d

AUGUST 8
Penticton
eP 12 55 51

AUGUST 8
U.S.C.G.S.
51.3N, 170.5W
Fox Islands
H = 13 37 53.0
h = 39 km
Penticton
eP 13 44 20

AUGUST 8
H = 18 23 02
Penticton
eP_1 18 23 28.0
eS_1 18 23 47.5
D = 160 km

AUGUST 8
Penticton
eP 23 50 03

AUGUST 8
U.S.C.G.S.
50.9N, 170.5W
Fox Islands
H = 23 49 11.9
h = 25 km
Penticton
eP 23 55 43

AUGUST 9
U.S.C.G.S.
19.1S, 168.7E
New Hebrides Islands
H = 16 02 36.1
h = 69 km
Halifax
iP' 16 21 40.5(c)
Ottawa
eP' 16 21 23 c
Penticton
iP 16 15 45 c
Shawinigan Falls
iP' 16 21 27 c
Victoria
iP 16 15 34 c

AUGUST 9
H = 19 26 37.5
Penticton
iP_1 19 26 56.5
iS_1 19 27 12.9
D = 134 km

AUGUST 9
H = 22 21 41
Penticton
eP_1 22 22 06.9
eS_1 22 22 26.4
D = 160 km

AUGUST 9
Penticton
eP 23 48 31

AUGUST 10
U.S.C.G.S.
58.5N, 155.1W
Alaska
H = 00 58 38.9
h = 68 km
Penticton
eP 01 03 32

AUGUST 10
Penticton
eP 05 46 55

AUGUST 10
U.S.C.G.S.
20.8S, 178.0W
Fiji Islands
H = 06 37 04.7
h = 377 km
Penticton
eP 06 49 13

AUGUST 10
U.S.C.G.S.
20.1S, 174.5W
Tonga Islands
H = 07 32 05.3
h = 100 km
Penticton
eP 07 44 33

AUGUST 10
U.S.C.G.S.
37.2N, 136.9E
Near coast of
Honshu, Japan
H = 12 03 21.8
h = 51 km
Penticton
eP 12 14 34
Victoria
eP 12 14 23

AUGUST 10
U.S.C.G.S.
43.3N, 144.9E
Hokkaido Japan
H = 12 05 21.4
h = 25 km
Banff
eP 12 15 51
Resolute
iP 12 15 01
Shawinigan Falls
eP 12 17 56

AUGUST 10
U.S.C.G.S.
9.6S, 159.7E
Solomon Islands
H = 17 22 31.6
h = 44 km
Penticton
eP 17 35 29

AUGUST 10
Penticton
eP 18 50 45

AUGUST 10
H = 23 01 41
Penticton
eP_1 23 02 07.1
eS_1 23 02 27.3
D = 165 km

AUGUST 11
U.S.C.G.S.
56.1N, 164.3E
Kamchatka
H = 00 43 29.6
h = 27 km
Banff
eP 00 51 28
Penticton
eP 00 51 39
Shawinigan Falls
eP 00 54 24
Victoria
eP 00 51 21

AUGUST 11
Penticton
eP 04 11 13

AUGUST 11
U.S.C.G.S.
32.5N, 131.3E
Kyushu Japan
H = 04 27 23.3
h = 25 km
Penticton
eP 04 39 14

AUGUST 11
U.S.C.G.S.
32.6N, 131.4E
Kyushu, Japan
H = 06 08 18.2
h = 25 km
Penticton
eP 06 20 10
Victoria
eP 06 20 01

AUGUST 11
U.S.C.G.S.
51.7N, 176.9W
Andreanof Islands
H = 06 55 54.5
Penticton
eP 07 02 50

DOMINION OBSERVATORIES

AUGUST 11
Penticton
eP 08 04 12

AUGUST 11
Penticton
eP 10 05 32

AUGUST 11
U.S.C.G.S.
18.5S, 168.2E
New Hebrides Islands
H = 10 24 58.9
Penticton
eP 10 38 09
Shawinigan Falls
eP' 10 43 54
Victoria
eP 10 38 01

AUGUST 11
U.S.C.G.S.
0.2N, 124.0E
Celebes Islands
H = 11 04 39.1
h = 143 km
Banff
eP' 11 22 53
Penticton
eP 11 18 40
e 11 22 50
Shawinigan Falls
eP' 11 23 37
Victoria
eP' 11 22 47

AUGUST 11
U.S.C.G.S.
42.9N, 145.1E
Hokkaido Japan
H = 15 51 35.4
h = 71 km
Mag 7
Banff
eP 16 01 58 c
Halifax
iP 16 04 26 c
Ottawa
iP 16 04 04 c
Penticton
iP 16 01 51 c
Resolute
iP 16 01 10
eS 16 08 52
Shawinigan Falls
iP 16 04 05 c
Victoria
iP 16 01 40 c

AUGUST 11
Penticton
eP 19 23 19

AUGUST 11
U.S.C.G.S.
41.5N, 141.9E
Off coast of
Honshu, Japan
H = 23 11 47.9
h = 122 km
Penticton
eP 23 22 16
Resolute
eP 23 21 32

AUGUST 11
U.S.C.G.S.
42.8N, 145.1E
Hokkaido Japan
H = 23 33 51.9
h = 72 km
Ottawa
eP 23 46 21
Penticton
iP 23 44 06
Resolute
eP 23 43 27
Shawinigan Falls
eP 23 46 24 c
Victoria
eP 23 43 57 d

AUGUST 12
Penticton
eP 03 22 55

AUGUST 12
Shawinigan Falls
eP 13 43 03?

AUGUST 12
Victoria
eP 14 02 39

AUGUST 12
Penticton
eP 15 54 08

AUGUST 12
Penticton
eP 17 26 09

AUGUST 12
Penticton
eP 19 05 34

AUGUST 12
Penticton
eP 22 07 12

AUGUST 12
Penticton
eP 23 10 02

AUGUST 13
Penticton
iP 00 16 43

AUGUST 13
U.S.C.G.S.
25.3N, 121.5E
Near coast of Formosa
H = 06 01 02.0
h = 25 km
Banff
eP 06 13 57
Penticton
eP 06 13 52
Victoria
eP 06 13 45

AUGUST 13
Penticton
eP 18 19 11

AUGUST 13
U.S.C.G.S.
18.7S, 65.6W
Bolivia
H = 18 22 30.5
h = 120 km
Penticton
eP 18 34 43

AUGUST 14
U.S.C.G.S.
3.4S, 81.3W
Near coast of
Peru
H = 01 56 56.2
h = 35 km
Penticton
eP 02 07 16

AUGUST 14
Penticton
eP 12 01 31

AUGUST 14
U.S.C.G.S.
57.6N, 158.7W
Alaska
H = 13 46 05.1
h = 93 km
Penticton
iP 13 51 19

AUGUST 14
U.S.C.G.S.
24.2S, 175.7W
Tonga Islands
H = 18 50 50.3
h = 21 km
Mag 5 1/2
Banff
eP 19 03 58
Penticton
iP 19 03 43 d
e 19 12 39
Victoria
eP 19 03 31

AUGUST 14
U.S.C.G.S.
31.8N, 131.2E
Off coast of Japan
H = 22 04 59.0
h = 14 km
Penticton
eP 22 16 56
Resolute
eP 22 16 10

AUGUST 14
H = 22 52 40
Penticton
eP_n 22 53 09.3
eS_n 22 53 32.5
D = 190 km

AUGUST 14
U.S.C.G.S.
20.3S, 169.4E
New Hebrides Islands
H = 23 28 46.5
h = 97 km
Mag 6
Halifax
iP' 23 47 50.5
Ottawa
eP' 23 47 34
Penticton
iP 23 41 56
e 23 56 08
Shawinigan Falls
eP' 23 47 37
Victoria
iP 23 41 45 d

AUGUST 15
Penticton
eP 08 59 49

AUGUST 15
61°N±1°, 135°W±1°
Canadian Arctic
H = 12 26 09
Mag 5.3
Penticton
eP 12 29 21
Resolute
iP_n 12 31 09 d
eS_n 12 35 04
L_g 12 37 09
D = 2500 km
Victoria
e 12 32 44

AUGUST 15
U.S.C.G.S.
47.6N, 155.3E
Kurile Islands
H = 15 35 31.0
h = 34 km
Penticton
eP 15 44 51

AUGUST 15
H = 19 07 14
Penticton
eP_n 19 07 44.8
eS_n 19 08 09.3
D = 200 km

AUGUST 15
U.S.C.G.S.
32.8N, 142.4E
South of Honshu, Japan
H = 19 03 55.7
h = 39 km
Banff
eP 19 15 22
Ottawa
eP 19 17 16
Penticton
iP 19 15 10
Resolute
iP 19 14 44
Shawinigan Falls
eP 19 17 17
Victoria
eP 19 14 59

AUGUST 16
Canadian Arctic
H = 07 51 45
Mag 3.2
Resolute
P_n 07 52 28.5
S_n 07 53 00.5
L_g 07 53 13
D = 312 km

AUGUST 16
U.S.C.G.S.
32.2N, 142.1E
South of Honshu, Japan
H = 08 57 36.9
h = 32 km
Penticton
eP 09 08 56

AUGUST 16
Penticton
eP 11 54 09

AUGUST 16
Penticton
eP 15 51 35

AUGUST 16
Penticton
eP 17 27 26

AUGUST 16
Penticton
eP 20 36 05

AUGUST 17
U.S.C.G.S.
34.4S, 109.0W
South of Easter Island
H = 06 36 23.0
h = 25 km
Penticton
eP 06 48 55

AUGUST 17
Penticton
eP 16 19 20

AUGUST 17
U.S.C.G.S.
17.1S, 71.8W
Near coast of Peru
H = 17 49 47.5
h = 105 km
Shawinigan Falls
eP 18 00 12

AUGUST 17
Penticton
eP 20 09 57

AUGUST 17
Penticton
eP 20 16 05

AUGUST 17
Penticton
eP 20 30 19

AUGUST 17
U.S.C.G.S.
46.3N, 149.3E
Kurile Islands
H = 21 16 30.0
h = 186 km
Mag 6 3/4
Alberni
iP 21 25 44
Banff
iP 21 26 12
Halifax
iP 21 28 48
Ottawa
eP 21 28 24
Penticton
iP 21 26 04 c
Resolute
eP 21 25 24
eS 21 32 35
S_cS? 21 34 58
SS ? 21 36 04?
Shawinigan Falls
eP 21 28 25
i 21 29 05 d
Victoria
e 21 25 52

AUGUST 17
Penticton
eP 21 55 21

AUGUST 18
Penticton
eP 01 59 04

AUGUST 18
Alberni
eP 07 50 11
e 07 50 30
Penticton
eP 07 50 30
Victoria
eP 07 49 49

AUGUST 18
U.S.C.G.S.
24.0S, 179.9W
Kermadec Islands
H = 11 01 26.5
h = 519 km
Penticton
eP 11 13 36

AUGUST 18
Penticton
eP 17 04 13

AUGUST 18
Penticton
eP 20 59 54

AUGUST 18
Penticton
eP 23 38 54

AUGUST 18
Penticton
eP 23 42 52

AUGUST 19
U.S.C.G.S.
43.1N, 145.0E
Hokkaido Japan
H = 02 42 58.2
h = 32 km
Banff
eP 02 53 38
Ottawa
eP 02 55 31
Penticton
eP 02 53 15
Resolute
eP 02 52 37
Shawinigan Falls
eP 02 55 32
Victoria
eP 02 53 19

AUGUST 19
Penticton
eP 03 15 38

AUGUST 19
49.8°N, 130.0°W
Off west coast of Vancouver Island
H = 04 56 12
Mag 4.3
Banff
e 04 59 22
Penticton
iP 04 57 40 d
Victoria
eP 04 57 21 d

AUGUST 19
U.S.C.G.S.
10.7S, 71.0W
Peru-Brazil border
H = 05 09 49.5
h = 649 km
Mag 7
Alberni
iP 05 20 38 d
Banff
iP 05 20 20 d
Halifax
iP 05 18 31 d
Ottawa
iP 05 18 33 d
Penticton
iP 05 20 23 d
Resolute
iP 05 21 31
? 05 23 41
iS 05 30 57
? 05 34 56
Shawinigan Falls
iP 05 18 41 d
Victoria
eP 05 20 32 d

AUGUST 19
U.S.C.G.S.
36.0N, 136.5E
Off coast of Honshu, Japan
H = 05 33 30.6
h = 17 km
Mag 7 1/2
Alberni
eP 05 44 36
Penticton
iP 05 44 54 c
Shawinigan Falls
iP 05 46 50 c
e 05 55 45

AUGUST 19
Penticton
eP 06 07 12

AUGUST 19
U.S.C.G.S.
35.9N, 136.6E
Near coast of
Honshu, Japan
H = 08 07 18.3
h = 25 km
Penticton
eP 08 18 40
Shawinigan Falls
eP 08 20 36

AUGUST 19
U.S.C.G.S.
43.4N, 145.2E
Near coast of
Hokkaido, Japan
H = 12 44 57.7
h = 20 km
Penticton
eP 12 55 16
Resolute
iP 12 54 35

AUGUST 19
U.S.C.G.S.
18.0N, 68.8W
Mona Passage
H = 14 52 31.4
h = 146 km
Alberni
eP 15 00 59
Banff
eP 15 01 12
Halifax
iP 14 58 04
Ottawa
eP 14 58 12
Penticton
eP 15 00 57
Resolute
eP 15 02 15
Victoria
eP 15 01 12 d

AUGUST 19
U.S.C.G.S.
11.4S, 70.6W
Peru-Brazil border
H = 16 01 25.6
h = 645 km
Banff
eP 16 12 00
Penticton
iP 16 12 04 d
e 16 13 55
Resolute
iP 16 13 11
Shawinigan Falls
eP 16 10 22 c
Victoria
eP 16 12 12 d

AUGUST 19
Penticton
eP 17 03 36

AUGUST 19
Penticton
eP 19 00 04

AUGUST 19
Penticton
eP 19 12 41

AUGUST 20
U.S.C.G.S.
17.8S, 178.8W
Fiji Islands
H = 05 04 14.3
h = 592 km
Alberni
eP 05 15 38
Banff
iP 05 16 08 c
Penticton
iP 05 15 52 c
Shawinigan Falls
eP' 05 21 52
Victoria
eP 05 15 39

AUGUST 20
Penticton
eP 06 34 13

AUGUST 20
Penticton
eP 08 44 05

AUGUST 20
U.S.C.G.S.
11.4S, 70.8W
Peru-Brazil border
H = 09 10 11.7
h = 678 km
Banff
iP 09 20 44
Penticton
iP 09 20 48
Shawinigan Falls
eP 09 19 06

AUGUST 20
U.S.C.G.S.
6.3S, 155.4E
Solomon Islands
H = 10 19 56.0
h = 72 km
Penticton
eP 10 32 58
Shawinigan Falls
eP' 10 38 46

AUGUST 20
Resolute
eP 18 07 23

AUGUST 21
U.S.C.G.S.
23.4S, 65.1W
Argentina
H = 01 28 32.0
h = 98 km
Penticton
eP 01 41 12

AUGUST 21
Penticton
eP 02 02 15

AUGUST 21
U.S.C.G.S.
22.7S, 179.2W
Fiji Islands
H = 02 06 43.4
h = 554 km
Penticton
iP 02 18 40 c

AUGUST 21
48°45'N, 122°44'W
Gulf Islands
H = 03 26 02
Mag 2.3
Alberni
iP_1 03 26 29.0
iS_1 03 26 49.7
D = 170 km
Penticton
eP_n 03 26 37.8
D = 242 km
Victoria
iP_1 03 26 11.5
iS_1 03 26 19.1
D = 58 km

AUGUST 21
U.S.C.G.S.
36.3N, 71.5E
Hindu Kush
H = 07 00 21.2
h = 152 km
Penticton
eP 07 13 27
Shawinigan Falls
eP 07 13 15

AUGUST 21
Penticton
eP 07 52 50

AUGUST 21
U.S.C.G.S.
50.9N, 170.9W
Fox Islands
H = 11 20 39.7
h = 33 km
Penticton
eP 11 28 10

AUGUST 21
U.S.C.G.S.
17.8S, 174.4W
Tonga Islands
H = 16 06 55.4
h = 74 km
Mag 5 3/4
Victoria
eP 16 19 02

AUGUST 21
Penticton
eP 16 41 17

AUGUST 21
U.S.C.G.S.
40.9N, 138.9E
Off coast of
Honshu, Japan
H = 17 00 37.0
h = 49 km
Banff
eP 17 11 34 c
Ottawa
eP 17 13 28
Penticton
iP 17 11 26 c
Resolute
eP 17 10 36
Shawinigan Falls
eP 17 13 28
Victoria
eP 17 11 16 c

AUGUST 21
Penticton
eP 18 16 34

AUGUST 21
Penticton
eP 18 29 47

AUGUST 21
Penticton
eP 19 58 36

AUGUST 21
H = 20 01 51
Penticton
iP_1 20 02 15.4
eS_1 20 02 33.7
D = 150 km

AUGUST 21
H = 21 26 42
Penticton
eP_n 21 27 12.7
eS_n 21 27 37.2
D = 201 km

AUGUST 21
Penticton
eP 21 55 00

AUGUST 22
U.S.C.G.S.
43.2N, 144.5E
Near coast of
Hokkaido, Japan
H = 06 12 07.2
h = 25 km
Penticton
eP 06 22 28

AUGUST 22
U.S.C.G.S.
13.4S, 166.7E
New Hebrides Islands
H = 08 59 27.9
h = 63 km
Penticton
eP 09 12 23

AUGUST 22
47°20'N±20', 70°30'W±30'
St. Lawrence River
H = 18 55 50.8
Mag 3.4
Montreal
i 18 56 37
$i(P_1)$ 18 56 41
i 18 57 13
iS_1 18 57 18
D = 320 km
Ottawa
e 18 56 59
$i(P_1)$ 18 57 05
e 18 57 45
iS_1 18 57 57
D = 460 km
Shawinigan Falls
iP_1 18 56 22.5
S_1 18 56 46.6
D = 198 km

AUGUST 22
Penticton
eP 19 28 19

AUGUST 22
49°22'N, 123°37'W
Strait of Georgia
H = 19 41 16
Mag 2.6
Alberni
eP_1 19 41 30.1
D = 88 km
Penticton
eP_n 19 41 58.7
D = 297 km
Victoria
eP_1 19 41 31.1
eS_1 19 41 42.9
D = 95 km

AUGUST 22
U.S.C.G.S.
52.3N, 172.2W
Fox Islands
H = 22 21 47.6
h = 53 km
Banff
eP 22 28 33

AUGUST 22
H = 22 47 54
Penticton
eP_1 22 48 17.7
eS_1 22 48 36.0
D = 150 km

AUGUST 22
H = 23 00 56
Penticton
eP_1 23 01 18.1
eS_1 23 01 35.2
D = 140 km

AUGUST 23
U.S.C.G.S.
32.9N, 116.3W
California
H = 01 00 47.1
h = 27 km
Mag 4 3/4
Penticton
eP 01 04 41

AUGUST 23
H = 01 22 22
Penticton
eP_1 01 22 44.9
eS_1 01 23 02.0
D = 140 km

AUGUST 23
U.S.C.G.S.
38.7N, 68.7E
Tadzhik S.S.R.
H = 04 12 35.9
h = 25 km
Banff
eP 04 25 41 d
Halifax
P 04 25 21
Penticton
iP 04 25 46
Resolute
eP 04 23 26
Shawinigan Falls
eP 04 25 30 d
Victoria
eP 04 25 49 d

AUGUST 23
Penticton
eP 19 25 16

AUGUST 23
Penticton
eP 23 06 54

AUGUST 24
U.S.C.G.S.
42.9N, 145.3E
Hokkaido, Japan
H = 04 52 20.5
h = 44 km
Ottawa
eP 05 04 53
Penticton
e 05 04 38
Resolute
iP 05 01 58 d
Shawinigan Falls
eP 05 04 53

AUGUST 24
Penticton
eP 07 43 11

AUGUST 24
Penticton
eP 10 01 35

AUGUST 24
Penticton
eP 12 05 44

AUGUST 24
Penticton
eP 16 51 21

AUGUST 24
U.S.C.G.S.
21.3S, 173.1E
Loyalty Islands
H = 20 58 36.2
h = 258 km
Penticton
eP 21 11 08

AUGUST 24
U.S.C.G.S.
43.0N, 145.0E
Hokkaido, Japan
H = 22 40 49.1
h = 18 km
Banff
eP 22 51 19
Halifax
P 22 53 46
Ottawa
eP 22 53 24
Resolute
iP 22 50 30 c
Shawinigan Falls
eP 22 53 24
Victoria
eP 22 50 59

AUGUST 25
U.S.C.G.S.
15.2N, 87.0W
Honduras
H = 05 42 01.2
h = 48 km
Banff
eP 05 49 54
Shawinigan Falls
eP 05 48 38
Victoria
eP 05 50 16

AUGUST 25
U.S.C.G.S.
53.5N, 161.2W
Alaska
H = 06 59 30.2
h = 36 km
Banff
eP 07 05 20
Halifax
P 07 09 34
Ottawa
eP 07 08 46
Resolute
eP 07 06 09
Shawinigan Falls
eP 07 08 53 c
Victoria
eP 07 04 45

AUGUST 25
H = 19 01 02
Penticton
eP_1 19 01 29.6
eS_1 19 01 50.2
D = 169 km

AUGUST 25
Resolute
eP 20 39 59 d

AUGUST 25
U.S.C.G.S.
8.1S, 122.8E
Flores Sea
H = 21 26 28.1
h = 191 km
Halifax
P' 21 45 43

AUGUST 25
H = 22 53 02
Penticton
eP_1 22 53 26.7
eS_1 22 53 45.2
D = 152 km

AUGUST 26
H = 01 07 15
Penticton
eP_n 01 07 48.4
eS_n 01 08 14.8
D = 216 km

AUGUST 26
U.S.C.G.S.
7.0N, 73.2W
Colombia
H = 01 19 39.1
h = 183 km
Penticton
eP 01 29 13

AUGUST 26
Penticton
eP 06 58 52

AUGUST 26
H = 17 01 01
Penticton
eP_1 17 01 23.3
eS_1 17 01 39.1
D = 138 km

AUGUST 26
U.S.C.G.S.
18.0N, 146.4E
Mariana Islands
H = 18 49 47.1
h = 53 km
Penticton
eP 19 01 49
Resolute
eP 19 01 54

AUGUST 27
U.S.C.G.S.
15.3S, 13.1W
South of Ascension Island
H = 01 51 51.8
h = 49 km
Halifax
eP 02 03 34
Ottawa
eP 02 04 14
Shawinigan Falls
eP 02 04 09

AUGUST 27
H = 02 23 16
Victoria
iP_1 02 23 21.1
iS_1 02 23 24.8
D = 30 km

AUGUST 27
Penticton
eP 06 00 32

AUGUST 27
U.S.C.G.S.
18.5S, 178.2W
Fiji Islands
H = 06 43 29.9
h = 488 km
Penticton
iP 06 55 19

AUGUST 27
Penticton
eP 12 17 26

AUGUST 27
U.S.C.G.S.
22.8S, 114.4W
Easter Island
H = 15 28 25.0
h = 25 km
Penticton
eP 15 39 53

AUGUST 27
U.S.C.G.S.
46.6N, 154.1E
Kurile Islands
H = 16 22 08.1
h = 31 km
Mag 6 1/2
Banff
eP 16 31 50
Halifax
eP 16 34 47
Ottawa
eP 16 34 07
Penticton
iP 16 31 37
Resolute
iP 16 31 08 d
S 16 38 23
Shawinigan Falls
eP 16 34 09

AUGUST 27
U.S.C.G.S.
18.3N, 146.6E
Mariana Islands
H = 16 47 44.8
h = 27 km
Mag 6 1/4
Banff
eP 17 00 13
Penticton
iP 16 59 49
Resolute
iP 16 59 54 c
S | 17 09 55
Victoria
eP 16 59 37

AUGUST 27
U.S.C.G.S.
2.2N, 128.6E
Halmahera
H = 17 02 27.2
h = 263 km
Shawinigan Falls
eP' 17 21 07

AUGUST 27
U.S.C.G.S.
17.9N, 146.4E
Mariana Islands
H = 17 58 00.8
h = 74 km
Penticton
eP 18 10 02

AUGUST 27
U.S.C.G.S.
46.8N, 153.9E
Kurile Islands
H = 20 56 15.6
h = 25 km
Penticton
eP 21 05 45
Shawinigan Falls
eP 21 08 18
Resolute
iP 21 05 16 d

AUGUST 27
U.S.C.G.S.
35.9N, 23.7E
Near coast of Crete
H = 22 08 49.8
h = 69 km
Halifax
P 22 19 19
Ottawa
eP 22 20 05 d
Penticton
eP 22 21 40
Shawinigan Falls
eP 22 19 50 d

AUGUST 28
U.S.C.G.S.
15.1S, 70.2W
Peru-Bolivia border
H = 06 28 19.4
h = 185 km
Halifax
iP 06 38 10 c
Ottawa
eP 06 38 13
Penticton
iP 06 40 01
Resolute
iP 06 41 08
Shawinigan Falls
eP 06 38 21 c
Victoria
eP 06 40 10

AUGUST 28
Banff
eP 06 49 29

AUGUST 28
U.S.C.G.S.
12.7S, 169.6E
Santa Cruz Islands
H = 07 41 24.5
h = 662 km
Penticton
iP 07 53 10

AUGUST 28
U.S.C.G.S.
53.6N, 159.1E
Kamchatka
H = 09 10 13.0
h = 25 km
Banff
eP 09 19 02
Penticton
eP 09 18 53

AUGUST 28
U.S.C.G.S.
18.6S, 178.0W
Fiji Islands
H = 09 44 13.5
h = 574 km
Banff
iP 09 56 11 d
Penticton
iP 09 55 54 d
Victoria
iP 09 55 42 d

AUGUST 28
U.S.C.G.S.
46.7N, 153.9E
Kurile Islands
H = 12 13 45.3
h = 19 km
Penticton
eP 12 23 15

AUGUST 28
Resolute
eP 17 45 56

AUGUST 28
U.S.C.G.S.
22.9S, 113.4W
Easter Island region
H = 20 26 04.2
h = 56 km
Banff
eP 20 37 34
Penticton
eP 20 37 25
Shawinigan Falls
eP 20 38 00 c
Victoria
eP 20 37 22

AUGUST 28
Penticton
eP 21 12 08

AUGUST 28
U.S.C.G.S.
14.0S, 74.4W
Near coast of Peru
H = 21 27 12.1
h = 73 km
Banff
eP 21 38 46
Halifax
iP 21 37 10 c
Ottawa
eP 21 37 09
Penticton
eP 21 38 49 d
Shawinigan Falls
eP 21 37 18
Victoria
eP 21 38 57

AUGUST 29
Penticton
eP 00 21 02

AUGUST 29
U.S.C.G.S.
42.7N, 145.0E
Kurile Islands
H = 05 55 33.0
h = 25 km
Penticton
eP 06 05 54

AUGUST 29
Penticton
iP 12 25 15

AUGUST 29
U.S.C.G.S.
52.2N, 170.8W
Fox Islands
H = 14 51 14.2
h = 41 km
Mag 5
Banff
eP 14 57 54 d

DOMINION OBSERVATORIES

Halifax
eP 15 01 53?
Ottawa
eP 15 01 10 d
Penticton
iP 14 57 41
Shawinigan Falls
eP 15 01 14
Victoria
eP 14 57 25 d

AUGUST 29
U.S.C.G.S.
15.4S, 168.1E
New Hebrides Islands
H = 21 33 43.0
h = 25 km
Penticton
eP 21 47 14

AUGUST 30
U.S.C.G.S.
53.7N, 166.3W
Fox Islands
H = 02 25 45.4
Halifax
P 02 36 02
Ottawa
eP 02 35 16
Penticton
iP 02 31 43
Shawinigan Falls
eP 02 35 23

AUGUST 30
U.S.C.G.S.
7.0N, 33.2W
North Atlantic Ocean
H = 03 35 07.7
h = 69 km
Mag 4 1/2
Halifax
eP 03 43 28
Ottawa
eP 03 44 20
Penticton
eP 03 47 30
Shawinigan Falls
eP 03 44 12

AUGUST 30
U.S.C.G.S.
3.5S, 77.7W
Ecuador-Peru
border
H = 03 45 25.7
h = 25 km
Halifax
P 03 54 21
Ottawa
eP 03 54 13
Penticton
iP 03 56 03
Shawinigan Falls
eP 03 54 25

AUGUST 30
U.S.C.G.S.
39.1N, 77.6E
China
H = 14 51 49.7
h = 201 km
Penticton
eP 15 04 33

AUGUST 30
H = 22 43 42
Penticton
eP_1 22 44 06.5
eS_1 22 44 24.9
D = 151 km

AUGUST 31
U.S.C.G.S.
28.1S, 176.7W
Kermadec Islands
H = 00 22 47.3
h = 56 km
Penticton
eP 00 35 55

AUGUST 31
U.S.C.G.S.
10.6S, 70.9W
Peru-Brazil border
H = 01 48 37.5
h = 626 km
Mag 7
Banff
iP 01 59 07 d
Halifax
iP 01 57 19 d
Ottawa
iP 01 57 21 d
Penticton
iP 01 59 12 d
Resolute
eP 02 00 20 d
PP? 02 02 24
S 02 08 50
i 02 10 06
i 02 18 15
Shawinigan Falls
iP 01 57 29 d
Victoria
eP 01 59 21 d,S,E

AUGUST 31
U.S.C.G.S.
10.4S, 70.7W
Peru-Brazil border
H = 01 57 08.0
h = 629 km
Mag 7 1/2
Halifax
iP 02 05 45.5 d
Ottawa
iP 02 05 49 d
Shawinigan Falls
iP 02 05 56 d

SEPTEMBER 1
Penticton
eP 00 11 47.1

SEPTEMBER 1
U.S.C.G.S.
59.3S, 27.3W
Sandwich Islands
H = 00 09 34.6
h = 151 km
Mag 7 1/2
Banff
eP' 00 28 33
Halifax
eP 00 23 51
Penticton
eP' 00 28 18
Resolute
P' 00 28 44
S 00 31 56
i 00 32 34
Shawinigan Falls
eP 00 24 18
eP' 00 28 10
Victoria
eP' 00 28 38

SEPTEMBER 1
U.S.C.G.S.
15.0N, 87.4W
Honduras
H = 03 16 12.9
h = 161 km
Penticton
eP 03 24 01

SEPTEMBER 1
U.S.C.G.S.
16.4N, 93.8W
Mexico
H = 04 43 13.4
h = 155 km
Ottawa
eP 04 49 57
Shawinigan Falls
eP 04 50 29

SEPTEMBER 1
U.S.C.G.S.
18.0S, 178.3W
Fiji Islands region
H = 18 41 32.4
h = 619 km
Penticton
iP 18 53 08 c

SEPTEMBER 1
U.S.C.G.S.
13.5N, 92.5W
Off coast of
Guatemala
H = 18 50 35.4
h = 37 km
Mag 6 1/2
Banff
iP 18 58 24 d
Halifax
iP 18 58 04 c
Ottawa
iP 18 57 22 c
Penticton
iP 18 58 26 d
Resolute
iP 19 00 48 d
S 19 09 06
S_cS? 19 10 39
Shawinigan Falls
eP 18 57 40 c

SEPTEMBER 1
U.S.C.G.S.
15.2N, 87.3W
Near coast of
Honduras
H = 20 14 56.8
h = 75 km
Penticton
eP 20 22 46

SEPTEMBER 1
Penticton
eP 20 38 25

SEPTEMBER 1
Penticton
eP 22 52 13

SEPTEMBER 1
Penticton
eP 23 38 39

SEPTEMBER 2
U.S.C.G.S.
52.0N, 170.9W
Fox Islands
H = 00 26 06.2
h = 39 km
Banff
iP 00 32 54 c
Halifax
eP 00 36 47.5
Ottawa
eP 00 36 04
Penticton
iP 00 32 35 c
Resolute
P 00 33 16
Shawinigan Falls
eP 00 36 09 c
Victoria
eP 00 32 19

SEPTEMBER 2
U.S.C.G.S.
42.2N, 142.6E
Near coast of
Hokkaido, Japan
H = 07 33 24.3
h = 31 km
Penticton
eP 07 43 54

DOMINION OBSERVATORIES

SEPTEMBER 2
Penticton
eP 22 17 42

SEPTEMBER 2
H = 23 22 33
Victoria
iP_1 23 22 55.8
iS_1 23 23 15.5
D = 162 km

SEPTEMBER 3
H = 01 38 34
Penticton
eP_n 01 39 02.2
eS_n 01 39 23.4
D = 173 km

SEPTEMBER 3
U.S.C.G.S.
12.1N, 86.9W
Near coast of
Nicaragua
H = 04 48 25.6
h = 124 km
Halifax
P 04 55 34
Ottawa
iP 04 55 02 c
Penticton
iP 04 56 37
Shawinigan Falls
iP 04 55 19 c

SEPTEMBER 3
Penticton
eP 09 43 13

SEPTEMBER 3
U.S.C.G.S.
51.8N, 158.9E
Near coast of
Kamchatka
H = 17 29 20.6
h = 22 km
Penticton
eP 17 38 10

SEPTEMBER 4
U.S.C.G.S.
52.1N, 173.4E
Near Islands
H = 00 52 23.5
h = 41 km
Penticton
eP 01 00 07

SEPTEMBER 4
U.S.C.G.S.
46.9N, 154.2E
Kurile Islands
H = 04 53 12.9
h = 22 km
Penticton
eP 05 02 43

SEPTEMBER 4
U.S.C.G.S.
51.4N, 178.1W
Andreanof Islands
H = 09 49 10.7
h = 35 km
Mag 6 1/4
Banff
iP 09 56 30 c
Halifax
eP 10 00 13.5
Ottawa
eP 09 59 34
Penticton
iP 09 56 18 c
Resolute
eP 09 56 43
Shawinigan Falls
eP 09 59 37
Victoria
iP 09 56 02 c

SEPTEMBER 4
U.S.C.G.S.
52.1N, 173.8E
Near Islands
H = 17 15 49.7
h = 67 km
Penticton
eP 17 22 27

SEPTEMBER 4
47°32'N, 122°57'W
Puget Sound Area,
Washington, U.S.A.
H = 20 00 00
Mag 2.7
Penticton
eP_n 20 00 45.4
D = 320 km
Victoria
eP_1 20 00 18.1
eS_1 20 00 32.1
D = 115 km

SEPTEMBER 5
U.S.C.G.S.
16.2S, 172.6W
Samoa Islands
H = 00 46 29.6
h = 49 km
Penticton
eP 00 58 41

SEPTEMBER 5
U.S.C.G.S.
80.0N, 2.3W
Arctic Ocean
H = 02 37 34.9
h = 18 km
Resolute
eP 02 41 49
e 02 45 04

SEPTEMBER 5
U.S.C.G.S.
38.6N, 73.3E
Tadzhik, S.S.R.
H = 06 12 54.8
h = 50 km
Banff
eP 06 25 50
Penticton
iP 06 25 58

Shawinigan Falls
iP 06 25 49 c

SEPTEMBER 5
Halifax
P 08 33 29

SEPTEMBER 5
U.S.C.G.S.
44.2N, 149.2E
Kurile Islands
H = 09 11 22.2
h = 49 km
Penticton
eP 09 21 20

SEPTEMBER 5
U.S.C.G.S.
59.8N, 150.6W
Kenai Peninsula
H = 11 34 37.3
h = 44 km
Mag 6
Banff
eP 11 39 24 c
Halifax
iP 11 43 40
Ottawa
iP 11 42 50 c
Penticton
iP 11 39 11 c
Resolute
iP 11 39 59 d
S 11 44 23
Shawinigan Falls
iP 11 42 55 c
Victoria
iP 11 38 58 c

SEPTEMBER 5
U.S.C.G.S.
36.4N, 54.4E
Northern Iran
H = 14 09 55.1
h = 59 km
Shawinigan Falls
eP 14 22 27

SEPTEMBER 5
Penticton
eP 17 09 15

SEPTEMBER 5
H = 18 43 42
Penticton
eP_1 18 44 05.7
eS_1 18 44 24.1
D = 150 km

SEPTEMBER 5
U.S.C.G.S.
11.8N, 141.9E
Mariana Islands
H = 21 07 32.6
h = 25 km
Penticton
eP 21 20 15

SEPTEMBER 5
Penticton
eP 23 04 34

SEPTEMBER 6
U.S.C.G.S.
2.8N, 125.8E
Molucca Passage
H = 08 14 17.4
h = 58 km
Ottawa
eP' 08 33 21
Shawinigan Falls
eP' 08 33 22 d

SEPTEMBER 6
Penticton
eP 09 46 01

SEPTEMBER 6
U.S.C.G.S.
10.8S, 79.1W
Near coast of Peru
H = 15 30 20.4
h = 45 km
Penticton
eP 15 41 30
Shawinigan Falls
eP 15 40 07

SEPTEMBER 6
H = 21 07 30
Penticton
eP_1 21 07 51.9
eS_1 21 08 08.9
D = 139 km

SEPTEMBER 6
Penticton
eP 22 26 19

SEPTEMBER 7
Penticton
eP 17 23 34

SEPTEMBER 7
48°09'N, 122°56'W
Puget Sound,
Washington, U.S.A.
H = 18 11 17
Mag 2.0
Penticton
eP_n 18 11 57.4
D = 277 km
Victoria
iP_1 18 11 25.5
iS_1 18 11 32.1
D = 54 km

DOMINION OBSERVATORIES

SEPTEMBER 7
Penticton
eP 20 37 46

SEPTEMBER 7
Penticton
eP 22 46 09

SEPTEMBER 8
U.S.C.G.S.
63.1N, 150.5W
Alaska
H = 00 05 13.8
h = 135 km
Banff
eP 00 09 59
Halifax
P 00 13 56
Ottawa
eP 00 13 10
Penticton
iP 00 09 56
Resolute
eP 00 09 58
Shawinigan Falls
iP 00 13 14 c

SEPTEMBER 8
H = 01 27 28
Victoria
eP_1 01 27 52.1
eS_1 01 28 10.7
D = 152 km

SEPTEMBER 8
U.S.C.G.S.
51.8N, 131.2W
Queen Charlotte Islands
H = 04 52 10.3
h = 54 km
Mag 5
Banff
eP 04 54 32
Ottawa
eP 04 59 15
Penticton
iP 04 54 02
Resolute
eP 04 57 59
S 05 06 48
SS? 05 11 19
Shawinigan Falls
eP 04 59 24
Victoria
iP 04 53 36

SEPTEMBER 8
Penticton
eP 06 07 48

SEPTEMBER 8
U.S.C.G.S.
56.1S, 27.3W
Sandwich Islands
H = 11 26 32.8
h = 125 km
Mag 7 1/2
Banff
iP' 11 45 27 c
Halifax
eP 11 40 30
Ottawa
eP 11 40 49
Penticton
e 11 43 42
eP' 11 45 07
Resolute
eP' 11 45 32
S 11 48 33
i 11 49 07
Shawinigan Falls
eP 11 40 52
Victoria
eP' 11 45 15

SEPTEMBER 8
Penticton
eP 15 40 39

SEPTEMBER 8
Penticton
eP 15 50 12

SEPTEMBER 8
H = 21 30 12
Penticton
eP_n 21 31 14.0
D = 462 km

SEPTEMBER 9
U.S.C.G.S.
52.5N, 169.4W
Fox Islands
H = 09 10 25.2
h = 61 km
Halifax
eP 09 20 58
Ottawa
eP 09 20 12
Penticton
eP 09 16 41

SEPTEMBER 9
U.S.C.G.S.
33.8N, 139.6E
Off coast of
Honshu, Japan
H = 09 16 08.6
h = 151 km
Penticton
eP 09 27 14
Resolute
P 09 26 40

SEPTEMBER 9
U.S.C.G.S.
51.7N, 174.9W
Andreanof Islands
H = 11 47 12.4
h = 50 km
Banff
eP 11 54 14
Ottawa
iP 11 57 24 d
Penticton
eP 11 54 00

SEPTEMBER 9
U.S.C.G.S.
1.5N, 90.6W
Galapagos Islands
H = 19 10 47.6
h = 54 km
Banff
eP 19 20 07
Penticton
iP 19 20 07
Shawinigan Falls
eP 19 19 22
Victoria
eP 19 20 13

SEPTEMBER 10
H = 01 28 16
Penticton
eP_n 01 28 56.6
eS_n 01 29 31.4
D = 285 km

SEPTEMBER 10
U.S.C.G.S.
49.2N, 158.2E
Off coast of
Kamchatka
H = 01 43 07.2
h = 33 km
Penticton
iP 01 52 09

SEPTEMBER 10
U.S.C.G.S.
22.7S, 63.1W
Argentina
H = 04 45 27.1
h = 519 km
Halifax
iP 04 55 31 d
Ottawa
iP 04 55 40 d
Penticton
iP 04 57 21
Shawinigan Falls
eP 04 55 44
Victoria
eP 04 57 27

SEPTEMBER 10
Penticton
eP 15 48 59
Victoria
eP 15 49 08

SEPTEMBER 11
U.S.C.G.S.
51.3N, 179.7W
Andreanof Islands
H = 02 46 43.4
h = 15 km
Banff
eP 02 54 14
Ottawa
eP 02 57 16
Penticton
eP 02 54 02
Resolute
eP 02 54 22
Shawinigan Falls
eP 02 57 20
Victoria
eP 02 53 45 c

SEPTEMBER 11
U.S.C.G.S.
43.5N, 127.2W
Off coast of
California
H = 04 39 44.9
h = 23 km
Penticton
iP 04 41 38
Victoria
iP 04 41 08 d

SEPTEMBER 11
U.S.C.G.S.
51.0N, 179.9W
Andreanof Islands
H = 09 02 39.4
h = 25 km
Penticton
eP 09 09 57

SEPTEMBER 11
Resolute
eP 13 30 25

SEPTEMBER 11
U.S.C.G.S.
10.8N, 62.4W
Off coast of
Venezuela
H = 22 15 02.6
h = 134 km
Halifax
iP 22 21 33 d
Ottawa
eP 22 21 53
i 22 24 16
Penticton
iP 22 25 01
Resolute
eP 22 25 37
Shawinigan Falls
eP 22 21 58 c
Victoria
iP 22 25 11 c

SEPTEMBER 11
U.S.C.G.S.
42.8N, 145.4E
Near coast of
Hokkaido, Japan
H = 23 47 19.5
h = 18 km
Ottawa
eP 23 59 53 d
Penticton
eP 23 57 39

Resolute
iP 23 56 58
Shawinigan Falls
iP 23 59 53 d
Victoria
eP 23 57 24

SEPTEMBER 12
U.S.C.G.S.
18.3S, 169.1E
New Hebrides Islands
H = 01 14 32.9
h = 208 km
Penticton
eP 01 27 20

SEPTEMBER 12
U.S.C.G.S.
63.2N, 149.0W
Alaska
H = 05 38 03.5
h = 72 km
Ottawa
eP 05 46 06
Penticton
eP 05 42 47
Shawinigan Falls
eP 05 46 06

SEPTEMBER 12
U.S.C.G.S.
15.1S, 173.6W
Tonga Islands
H = 08 01 34.9
h = 87 km
Penticton
eP 08 13 38

SEPTEMBER 12
U.S.C.G.S.
13.9N, 92.3W
Off coast of
Guatemala
H = 09 28 14.9
h = 83 km
Penticton
eP 09 35 59
Shawinigan Falls
eP 09 35 08
Victoria
eP 09 36 03

SEPTEMBER 12
45°12'N±10'
75°15'W±10'
Southeast of Ottawa
H = 09 54 22.5
Mag 2.8
Montreal
iP_1 09 54 43.0
i 09 54 47
iS_1 09 54 59.3
D = 134 km
Ottawa
iP_1 09 54 30.0
iS_1 09 54 35.3
D = 43.5 km
Shawinigan Falls
iP_1 09 55 00.4
i 09 55 03.8
i 09 55 26.4
iS_1 09 55 28.5
D = 234 km

SEPTEMBER 12
U.S.C.G.S.
10.8S, 69.8W
Peru-Bolivia
border
H = 11 18 26.3
h = 618 km
Penticton
iP 11 29 07
Shawinigan Falls
eP 11 27 24
Victoria
eP 11 29 11

SEPTEMBER 12
U.S.C.G.S.
23.0S, 176.2W
Tonga Islands
H = 11 58 01.4
h = 39 km
Penticton
eP 12 10 52

SEPTEMBER 12
U.S.C.G.S.
43.8N, 147.8E
Near coast of
Hokkaido, Japan
H = 12 27 09.2
h = 96 km
Ottawa
eP 12 39 28
Penticton
iP 12 37 11
Resolute
eP 12 36 32
Shawinigan Falls
eP 12 39 29

SEPTEMBER 12
U.S.C.G.S.
32.1N, 115.1W
California
H = 19 18 39.0
h = 25 km
Mag 5 1/4
Banff
eP 19 23 04
Penticton
eP 19 22 46
Shawinigan Falls
eP 19 25 39
Victoria
eP 19 22 48 d

SEPTEMBER 12
U.S.C.G.S.
59.4S, 29.2W
Sandwich Islands
H = 19 29 05.2
h = 25 km
Penticton
eP' 19 48 17

SEPTEMBER 12
H = 20 11 58
Penticton
iP_1 20 12 21.1
iS_1 20 12 38.5
D = 142 km

SEPTEMBER 12
Penticton
eP 20 18 15

SEPTEMBER 12
H = 22 11 48
Penticton
eP_n 22 12 39.7
eS_n 22 13 24.4
D = 366 km

SEPTEMBER 12
H = 22 25 00
Penticton
iP_1 22 25 22.9
iS_1 22 25 40.4
D = 144 km

SEPTEMBER 13
H = 13 54 46
Penticton.
iP_n 13 55 28.7
iS_n 13 56 04.5
D = 293 km

SEPTEMBER 13
U.S.C.G.S.
41.6S, 73.2W
Chile
H = 21 19 26.2
h = 154 km
Mag 7
Halifax
eP 21 32 01 d
Ottawa
eP 21 32 00
Shawinigan Falls
eP 21 32 06 d

SEPTEMBER 14
Penticton
eP 01 14 25

SEPTEMBER 14
Penticton
eP 01 19 28
Victoria
eP 01 19 39

SEPTEMBER 14
Penticton
iP 02 10 24

SEPTEMBER 14
U.S.C.G.S.
33.6N, 48.8E
Iran
H = 08 03 09.0
h = 30 km
Halifax
eP 08 15 19
Shawinigan Falls
eP 08 15 38 d

SEPTEMBER 14
H = 18 38 40
Penticton
eP_1 18 39 04.6
eS_1 18 39 23.1
D = 152 km

SEPTEMBER 14
U.S.C.G.S.
23.6S, 179.9W
Fiji Islands
H = 18 44 47.0
h = 521 km
Penticton
eP 18 56 50

SEPTEMBER 14
U.S.C.G.S.
37.4N, 141.1E
Near coast of
Honshu, Japan
H = 21 50 41.3
h = 60 km
Penticton
eP 21 59 44

SEPTEMBER 14
H = 22 14 17
Penticton
eP_1 22 14 39.6
eS_1 22 14 56.5
D = 138 km

SEPTEMBER 14
H = 22 52 30
Penticton
iP_1 22 52 51.8
eS_1 22 53 08.3
D = 135 km

SEPTEMBER 15
U.S.C.G.S.
35.1N, 33.9E
Cyprus
H = 01 46 08.4
h = 25 km
Banff
eP 01 59 08 c
Halifax
iP 01 57 27.5c
Ottawa
eP 01 58 06
Penticton
iP 01 59 20

Resolute
eP 01 56 49
Shawinigan Falls
eP 01 57 53 c
Victoria
eP 01 59 27

SEPTEMBER 15
Penticton
eP 14 47 00

SEPTEMBER 15
H = 19 57 33
Penticton
iP_n 19 58 15.8
iS_n 19 58 51.7
D = 294 km

SEPTEMBER 15
Penticton
eP 21 08 27

SEPTEMBER 15
Ottawa
eP 23 41 03
Penticton
eP 23 38 24

SEPTEMBER 16
Penticton
iP 02 33 51

SEPTEMBER 16
U.S.C.G.S.
45.9N, 121.9W
Southern Washington, U.S.A.
H = 03 25 00.3
h = 37 km
Banff
eP 03 26 41
Penticton
iP_n 03 25 54.2
iS_n 03 26 49.7
Victoria
iP_n 03 25 39.8c
iS_n 03 26 09.3

SEPTEMBER 16
46.3N, 122.0W
Aftershock of previous
Washington, U.S.A.
H = 06 47 00.6
Mag 2.8
Penticton
eP_n 06 47 53.9
D = 382 km
Victoria
eP_n 06 47 40.1
eS_n 06 48 13.9
D = 270 km

SEPTEMBER 16
46.2°N, 122.2°W
Aftershock of
Washington (03 25)
H = 06 50 19.8
Mag 2.9
Penticton
eP_n 06 51 14.9
D = 397 km
Victoria
eP_n 06 50 59.3
eS_n 06 51 33.3
D = 270 km

SEPTEMBER 16
Resolute
iP 09 11 22?

SEPTEMBER 16
Penticton
eP 10 26 01

SEPTEMBER 16
46°11'N, 122°17'W
Washington, U.S.A.
H = 11 46 04.5
Mag 3.2
Penticton
eP_n 11 47 00.4
eS_n 11 47 57.9
D = 402 km
Victoria
eP_n 11 46 44.0
eS_n 11 47 20.6
D = 270 km

SEPTEMBER 16
U.S.C.G.S.
28.3N, 138.6E
South of Honshu, Japan
H = 12 09 49.8
h = 388 km
Penticton
iP 12 20 57
Resolute
eP 12 20 31 ?
Victoria
eP 12 20 46

SEPTEMBER 16
U.S.C.G.S.
14.4N, 46.0W
Mid-Atlantic Ocean
H = 13 31 34.5
h = 19 km
Ottawa
eP 13 39 12
Penticton
eP 13 42 40
Shawinigan Falls
eP 13 39 07
Victoria
eP 13 42 43

SEPTEMBER 16
U.S.C.G.S.
52.1N, 158.5E
Kamchatka
H = 17 17 46.1
h = 49 km
Penticton
eP 17 26 32
Resolute
eP 17 25 58

SEPTEMBER 16
Penticton
eP 20 09 51

SEPTEMBER 16
U.S.C.G.S.
10.6S, 69.8W
Brazil-Peru border
H = 20 02 47.8
h = 629 km
Penticton
eP 20 13 26

SEPTEMBER 16
Penticton
eP 21 19 01

SEPTEMBER 17
Penticton
eP 04 00 11

SEPTEMBER 17
Victoria
eP 04 19 32

SEPTEMBER 17
U.S.C.G.S.
23.9N, 122.2E
Off coast of Formosa
H = 08 41 53.6
h = 35 km
Banff
iP 08 54 52 c
Penticton
iP 08 54 48 c
Resolute
eP 08 53 55
Victoria
iP 08 54 39 c

SEPTEMBER 17
Penticton
eP 11 04 23

SEPTEMBER 17
Resolute
eP 13 09 26

SEPTEMBER 17
Banff
eP 13 42 23

SEPTEMBER 17
U.S.C.G.S.
45.9N, 122.0W
Washington, U.S.A.
H = 15 55 58.9
h = 24 km
Alberni
iP_n 15 56 56.3
Banff
eP 15 57 40
Penticton
eP_n 15 57 04.3
Victoria
iP_n 15 56 40.0 c
iS_n 15 57 13.1
D = 265 km

SEPTEMBER 17
Resolute
eP? 16 12 10?
i 16 12 22
Penticton
eP 16 14 01

SEPTEMBER 17
Penticton
eP 16 35 03

SEPTEMBER 17
Penticton
eP 16 38 53

SEPTEMBER 17
U.S.C.G.S.
5.9S, 147.4E
Near coast of New Guinea
H = 23 22 06.3
h = 45 km
Halifax
eP' 23 41 18.5
Penticton
iP 23 35 32
Shawinigan Falls
eP' 23 41 06

SEPTEMBER 18
U.S.C.G.S.
48.8°N, 128.9°W
Vancouver Island region
H = 02 25 19.3
h = 21 km
Alberni
iP_n 02 26 02.5 c
iS_n 02 26 34.4
Banff
iP_n 02 27 30.4 c
Halifax
iP 02 33 27 d
Ottawa
eP 02 32 20
Penticton
iP_n 02 26 49.9 c

Shawinigan Falls
eP 02 32 32 d
Victoria
iP_n 02 26 14.9 c

SEPTEMBER 18
H = 02 29 08
Alberni
iP_n 02 29 40.5
iS_n 02 30 11.8
D = 207 km

SEPTEMBER 18
Resolute
i 02 44 56
i 02 51 16

SEPTEMBER 18
U.S.C.G.S.
35.0N, 26.3E
Crete
H = 05 08 37.7
h = 83 km
Shawinigan Falls
eP 05 19 51

SEPTEMBER 18
U.S.C.G.S.
40.8N, 50.1E
Caspian Sea
H = 11 01 00.8
h = 31 km
Banff
iP 11 13 48 d
Halifax
iP 11 12 50 d
Ottawa
eP 11 13 18 d
Penticton
eP 11 13 58
Resolute
eP 11 11 23
Shawinigan Falls
iP 11 13 06 d
Victoria
eP 11 14 04

SEPTEMBER 18
H = 12 32 38
Alberni
iP_n 12 33 16.9
iS_n 12 33 48.9
D = 260 km

SEPTEMBER 18
H = 19 29 06
Alberni
iP_1 19 29 24.9
iS_1 19 29 38.0
D = 116 km
Victoria
iP_1 19 29 13.3
iS_1 19 29 18.8
D = 45 km

SEPTEMBER 18
U.S.C.G.S.
48.9N, 128.4W
Vancouver Island region
H = 21 35 17.2
h = 46 km
Penticton
eP 21 36 42
Victoria
eP 21 36 06

SEPTEMBER 19
U.S.C.G.S.
20.3S, 63.2W
Bolivia
H = 02 25 49.2
h = 609 km
Mag 6 1/2
Banff
eP 02 37 23
Halifax
iP 02 35 33 d
Ottawa
eP 02 35 43 d
Penticton
iP 02 37 29

Resolute
eP 02 38 22
S? 02 48 (07)
i 02 48 54
i 02 52 42
i 02 55 48
Shawinigan Falls
eP 02 35 50
Victoria
eP 02 37 37

SEPTEMBER 19
Penticton
eP 02 55 27

SEPTEMBER 19
Penticton
eP 03 03 26

SEPTEMBER 19
U.S.C.G.S.
14.8N, 146.8E
Mariana Islands
H = 06 09 56.6
h = 61 km
Penticton
eP 06 22 05

SEPTEMBER 19
Ottawa
eP 09 50 58

SEPTEMBER 19
U.S.C.G.S.
6.7N, 82.4W
South of Panama
H = 09 46 17.7
h = 33 km
Mag 6 1/4
Alberni
iP 09 55 55
Banff
iP 09 55 29 c
Halifax
iP 09 54 04.5 c

Ottawa
eP 09 53 44
Penticton
iP 09 55 34
Resolute
eP 09 57 19
iS 10 06 20
Victoria
iP 09 55 44 c

SEPTEMBER 19
U.S.C.G.S.
21.6S, 179.4W
Fiji Islands region
H = 18 25 29.0
h = 639 km
Penticton
iP 18 37 18
Victoria
eP 18 37 08

SEPTEMBER 19
Penticton
eP 21 48 32

SEPTEMBER 19
U.S.C.G.S.
60.1S, 22.9W
Sandwich Islands region
H = 21 34 43.3
h = 56 km
Banff
eP' 21 53 55
Penticton
eP' 21 53 56
e 21 57 29
Resolute
eP' 21 54 09

SEPTEMBER 20
Canadian Arctic
H = 06 54 45.6
Mag 2.2
Resolute
P_1 06 55 04
06 55 06
06 55 14
S_1 06 55 18
D = 115 km

SEPTEMBER 20
Penticton
eP 11 44 57

SEPTEMBER 20
Penticton
eP 15 00 13

SEPTEMBER 20
U.S.C.G.S.
3.6S, 150.9E
New Britain
H = 19 03 37.1
h = 30 km
Mag 6 1/2
Banff
eP 19 16 57
Halifax
eP' 19 22 48 c
Ottawa
eP' 19 22 33
Penticton
eP 19 16 44
Resolute
eP 19 17 18
S? 19 28 43
i 19 33 57
PSPS? 19 35 39
Shawinigan Falls
eP' 19 22 35

SEPTEMBER 20
H = 22 18 33
Penticton
eP_1 22 18 56.5
eS_1 22 19 14.0
D = 144 km

SEPTEMBER 20
H = 22 50 12
Penticton
eP_1 22 50 34.8
eS_1 22 50 52.0
D = 141 km

SEPTEMBER 20
H = 22 52 45
Penticton
eP_n 22 53 15.0
eS_n 22 53 38.0
D = 188 km

SEPTEMBER 20
H = 23 18 03
Penticton
eP_1 23 18 13.4
eS_1 23 18 21.6
D = 68 km

SEPTEMBER 21
Banff
eP 03 13 42

SEPTEMBER 21
Penticton
iP 03 18 26

SEPTEMBER 21
Penticton
eP 07 31 34

DOMINION OBSERVATORIES

SEPTEMBER 21
U.S.C.G.S.
26.2S, 70.8W
Off coast of
northern Chile
H = 18 19 15.2
h = 18 km
Penticton
eP 18 32 01

SEPTEMBER 21
H = 23 10 55
Penticton
eP 23 11 48.6
eS 23 12 25.2
D = 300 km

SEPTEMBER 22
Canadian Arctic
H = 03 44 17.6
Mag 2.2
Resolute
P_1 03 44 27.5
S_1 03 44 35.0
D = 61.5 km

SEPTEMBER 23
H = 00 06 19
Penticton
eP_1 00 06 42.1
eS_1 00 06 59.6
D = 143 km

SEPTEMBER 23
H = 00 08 12
Penticton
eP_n 00 08 51.9
eS_n 00 09 25.3
D = 273 km

SEPTEMBER 23
Penticton
eP 01 59 45

SEPTEMBER 23
U.S.C.G.S.
19.8N, 155.2W
Hawaii
H = 03 01 35.7
h = 31 km
Banff
eP 03 09 45
Penticton
iP 03 09 19
Shawinigan Falls
eP 03 12 52
Victoria
eP 03 08 59

SEPTEMBER 23
U.S.C.G.S.
41.7N, 131.9E
Sea of Japan
H = 03 48 29.9
h = 527 km
Penticton
iP 03 58 49

SEPTEMBER 23
48.1°N,124.5°W
Washington, U.S.A.
H = 08 06 50
Mag 2.1
Victoria
iP_1 08 07 04.1
iS_1 08 07 15.7
D = 96 km

SEPTEMBER 23
Banff
eP 09 38 55
Victoria
eP_n 09 39 16.7

SEPTEMBER 23
Penticton
eP 23 02 01

SEPTEMBER 24
U.S.C.G.S.
18.4N, 98.6W
Mexico
H = 19 04 40.7
h = 81 km
Banff
iP 19 11 29 d
Ottawa
eP 19 11 08 d
Penticton
iP 19 11 26 d
Resolute
eP 19 14 13
Shawinigan Falls
iP 19 11 28 d
Victoria
eP 19 11 35 d

SEPTEMBER 24
H = 21 32 47
Penticton
eP_1 21 33 14.4
eS_1 21 33 35.0
D = 168 km

SEPTEMBER 24
U.S.C.G.S.
33.3N, 141.3E
South of Japan
H = 21 40 58.8
h = 93 km
Banff
eP 21 52 17
Penticton
iP 21 52 09 d
Resolute
eP 21 51 40
Victoria
eP 21 51 58

SEPTEMBER 24
Penticton
eP 23 13 20

SEPTEMBER 25
U.S.C.G.S.
60.3N, 153.0W
Alaska
H = 02 27 13.4
h = 125 km
Mag 5 3/4
Banff
eP 02 32 05
Halifax
eP 02 36 15
Ottawa
eP 02 35 27
Penticton
iP 02 31 57 d
Resolute
eP 02 32 28
i 02 36 59
i 02 39 27
Shawinigan Falls
eP 02 35 40
Victoria
eP 02 31 42 d

SEPTEMBER 25
U.S.C.G.S.
19.9N, 155.3W
Hawaii
H = 05 29 00.8
h = 82 km
Mag 5 3/4
Ottawa
eP 05 40 04
Penticton
iP 05 36 40
Resolute
eP 05 39 25
Shawinigan Falls
eP 05 40 12

SEPTEMBER 25
Penticton
eP 06 37 09

SEPTEMBER 25
U.S.C.G.S.
61.9N, 150.4W
Alaska
H = 20 22 44.9
h = 196 km
Resolute
eP 20 27 46

SEPTEMBER 25
U.S.C.G.S.
75.9N, 7.3E
Svalbard region
H = 21 12 41.0
h = 64 km
Resolute
eP 21 17 41

SEPTEMBER 25
H = 21 47 58
Penticton
eP_1 21 48 22.3
eS_1 21 48 40.7
D = 150 km

SEPTEMBER 26
H = 12 15 47
Penticton
eP_n 12 16 27.0
eS_n 12 17 00.5
D = 274 km

SEPTEMBER 26
H = 13 38 06
Penticton
iP_n 13 38 27.7
iS_n 13 38 44.5
D = 138 km
Victoria
eP_n 13 38 50.1
D = 310 km

SEPTEMBER 27
U.S.C.G.S.
15.4S, 175.1W
Fiji Islands region
H = 00 46 38.4
h = 295 km
Penticton
iP 00 58 25

SEPTEMBER 27
U.S.C.G.S.
19.2N, 105.1W
Mexico
H = 01 55 31.9
h = 54 km
Penticton
eP 02 01 54
Victoria
eP 02 02 02

SEPTEMBER 27
H = 06 35 26
Victoria
iP_1 06 35 33.6
iS_1 06 35 39.6
D = 50 km

SEPTEMBER 27
U.S.C.G.S.
17.4S, 178.7W
Fiji Islands
H = 06 34 03.7
h = 576 km
Banff
iP 06 45 57 c
Penticton
iP 06 45 41 c
Shawinigan Falls
eP' 06 51 41
Victoria
eP 06 45 29

DOMINION OBSERVATORIES

SEPTEMBER 27
Victoria
eP 07 14 37

SEPTEMBER 27
U.S.C.G.S.
52.3N, 168.7W
Fox Islands
H = 11 20 46.8
h = 27 km
Banff
eP 11 27 19
Halifax
eP 11 31 28.5
Ottawa
eP 11 30 36
Penticton
eP 11 27 04
Resolute
eP 11 27 51
Shawinigan Falls
eP 11 30 40
Victoria
eP 11 26 48

SEPTEMBER 27
U.S.C.G.S.
59.4S, 24.2W
Sandwich Islands
H = 12 07 39.2
h = 110 km
Banff
eP' 12 26 44
Penticton
eP' 12 26 45
Resolute
eP' 12 26 56
i 12 30 05
Shawinigan Falls
eP' 12 26 07
Victoria
eP' 12 26 47

SEPTEMBER 27
H = 19 05 00.2
Penticton
iP_1 19 05 03.7
iS_1 19 05 06.4
D = 22 km

SEPTEMBER 27
U.S.C.G.S.
52.5N, 168.7W
Fox Islands
H = 19 20 48.6
h = 42 km
Halifax
eP 19 31 43?
Ottawa
eP 19 30 35
Penticton
eP 19 26 56
Resolute
eP 19 27 50
i 19 30 16
Shawinigan Falls
eP 19 30 41
Victoria
eP 19 26 47

SEPTEMBER 27
U.S.C.G.S.
52.2N, 168.7W
Fox Islands
H = 19 27 00.7
h = 22 km
Halifax
eP 19 37 40.5
Ottawa
eP 19 36 51
Penticton
eP 19 33 18
Resolute
eP 19 34 05
Shawinigan Falls
eP 19 36 56

SEPTEMBER 27
H = 20 20 54
Penticton
iP_1 20 21 20.9
iS_1 20 21 41.2
D = 166 km

SEPTEMBER 27
U.S.C.G.S.
26.7N, 125.0E
Ryukyu Islands
H = 21 06 56.3
h = 17km
Penticton
eP 21 19 33
Resolute
eP 21 18 42 d

SEPTEMBER 28
Penticton
iP 00 01 30

SEPTEMBER 28
U.S.C.G.S.
3.9S, 102.0E
Sumatra
H = 01 23 59.6
h = 78 km
Penticton
iP' 01 42 49
Resolute
eP' 01 42 22
Shawinigan Falls
eP' 01 43 17
Victoria
eP' 01 42 46

SEPTEMBER 28
U.S.C.G.S.
30.5N, 141.3E
South of Japan
H = 03 24 43.4
h = 125 km
Penticton
eP 03 36 02
Resolute
eP 03 35 38 d
Victoria
eP 03 35 53

SEPTEMBER 28
U.S.C.G.S.
30.0N, 141.1E
South of Japan
H = 04 19 06.6
h = 75 km
Resolute
eP 04 30 13?

SEPTEMBER 28
U.S.C.G.S.
36.5N, 70.7E
Hindu Kush
H = 05 00 43.0
h = 233 km
Penticton
eP 05 13 37

SEPTEMBER 28
Resolute
eP 06 35 16

SEPTEMBER 28
Penticton
eP 11 23 19
Resolute
eP 11 24 12

SEPTEMBER 28
Halifax
eP 18 49 42

SEPTEMBER 28
U.S.C.G.S.
44.7N, 111.0W
Wyoming, U.S.A.
H = 18 50 09.3
h = 20 km
Penticton
eP 18 52 01

SEPTEMBER 28
Penticton
iP 19 58 19

SEPTEMBER 28
U.S.C.G.S.
27.6N, 57.1E
Iran
H = 22 36 27.5
h = 56 km
Resolute
eP 22 48 12?
Shawinigan Falls
eP 22 49 36

SEPTEMBER 28
H = 23 21 23
Penticton
iP_1 23 21 44.2
iS_1 23 22 00.3
D = 132 km

SEPTEMBER 28
H = 23 27 16
Penticton
iP_1 23 27 41.2
iS_1 23 28 00.4
D = 157 km

SEPTEMBER 29
Penticton
eP 00 10 01

SEPTEMBER 29
U.S.C.G.S.
13.8N, 94.0E
Andaman Islands
H = 08 45 26.9
h = 135 km
Alert, N.W.T.
iP 08 57 44 c

SEPTEMBER 29
U.S.C.G.S.
42.9N, 145.4E
Near coast of Japan
H = 16 50 32.9
h = 37 km
Banff
eP 17 00 59
Ottawa
eP 17 03 05
Resolute
iP 17 00 11 d
Shawinigan Falls
eP 17 03 06
Victoria
eP 17 00 39

SEPTEMBER 29
Resolute
eP 18 25 25
e 18 26 27

SEPTEMBER 29
U.S.C.G.S.
0.5N, 122.4E
Celebes Islands
H = 19 06 13.4
h = 110 km
Halifax
eP' 19 25 45?
Shawinigan Falls
eP' 19 25 17

DOMINION OBSERVATORIES

SEPTEMBER 29
U.S.C.G.S.
1.7N, 79.3W
Near coast of
Colombia
H = 22 38 05.9
h = 60 km
Ottawa
iP 22 46 07 d
Penticton
eP 22 48 02
Resolute
eP 22 49 33
Shawinigan Falls
iP 22 46 20 d
Victoria
eP 22 48 11

SEPTEMBER 30
U.S.C.G.S.
44.4N, 148.9E
Kurile Islands
H = 00 21 18.8
h = 49 km
Penticton
eP 00 31 12

SEPTEMBER 30
U.S.C.G.S.
25.3N, 124.8E
Ryukyu Islands
H = 01 36 41.5
h = 100 km
Alert, N.W.T.
P 01 48 01
Resolute
eP 01 48 38

SEPTEMBER 30
H = 06 49 51
Penticton
iP_1 06 50 12.8
iS_1 06 50 29.1
D = 132 km

SEPTEMBER 30
U.S.C.G.S.
40.6N, 141.9E
Near coast of
Japan
H = 13 13 06.9
h = 21 km
Alert, N.W.T.
iP 13 22 52 d
Resolute
eP 13 23 08

SEPTEMBER 30
Penticton
iP 18 57 57

SEPTEMBER 30
Resolute
eP 22 21 13

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN THE CANADIAN ARCTIC

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

JULY 1 at 02 06 28 U.T. Magnitude 1.4. Originated 40 km from Resolute, N.W.T.

JULY 3 at 22 57 07 U.T. Magnitude 1.9. Originated 50 km from Resolute, N.W.T.

JULY 4 at 04 49 06 U.T. Magnitude 1.5. Originated 107 km from Resolute, N.W.T.

JULY 4 at 05 39 38 U.T. Magnitude 1.5. Originated 107 km from Resolute, N.W.T.

JULY 4 at 06 17 57 U.T. Magnitude 1.4. Originated 107 km from Resolute, N.W.T.

JULY 4 at 07 17 56 U.T. Magnitude 1.8. Originated 107 km from Resolute, N.W.T.

JULY 4 at 10 20 42 U.T. Magnitude 2.1. Originated 107 km from Resolute, N.W.T.

JULY 10 at 05 06 11 U.T. Magnitude 2.4. Originated 184 km from Resolute, N.W.T.

JULY 19 at 02 59 29 U.T. Magnitude 1.9. Originated 232 km from Resolute, N.W.T., at a depth of about 33 km

JULY 22 at 13 01 09 U.T. Magnitude 2.1. Originated 94 km from Resolute, N.W.T.

JULY 25 at 22 35 29 U.T. Magnitude 1.7. Originated 82 km from Resolute, N.W.T.

AUGUST 5 at 12 55 51 U.T. Magnitude 3.1. Originated 252 km from Resolute, N.W.T., at a depth of about 27 km.

AUGUST 15 at 12 26 09 U.T. Magnitude 5.3. Epicentre at 61°N±1°, 135°W±1°. Felt generally by the people of Whitehorse, Yukon Territory, Canada. Two distinct shocks reported by the Royal Canadian Mounted Police.

DOMINION OBSERVATORIES

AUGUST 16 at 07 51 45 U.T. Magnitude 3.2. Originated 312 km from Resolute, N.W.T.

SEPTEMBER 20 at 06 54 46 U.T. Magnitude 2.2. Originated 115 km from Resolute, N.W.T.

SEPTEMBER 22 at 03 44 18 U.T. Magnitude 2.2. Originated 62 km from Resolute, N.W.T.

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN EASTERN CANADA
AND ADJACENT AREAS

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

JULY 5 at 22 43 44 U.T. Magnitude 5. Epicentre 50°18'N± 15', 66°43'W± 10'. About 20 miles northwest of Sept-Iles, Quebec. Felt most strongly in the northwest portion of Sept-Iles. It was also felt at Moisie, Port Cartier, and in the Moisie River Valley, as well as along the railway north to Tika at mile 57. It was not reported felt at Matane on the south shore of the St. Lawrence River.

AUGUST 22 at 18 55 51 U.T. Magnitude 3.4. Epicentre at 47°20'N ± 20', 70°30'W± 30'. On the St. Lawrence River south of Ile-aux-Coudres, Quebec.

SEPTEMBER 12 at 09 54 23 U.T. Magnitude 2.8. Epicentre at 45°12'N± 10', 75°15'W± 10'. About 27 miles southeast of Ottawa. Felt at South Mountain, Ontario and vicinity. This is the same location as the earthquake on March 13 at 10 55 45 U.T.

DOMINION OBSERVATORIES

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the third quarter of 1961. The times of observed phases are given at their respective chronological positions in the text of this bulletin. In some cases, although they are not included in the text, readings from Hungry Horse station in Montana, U.S.A., and from temporary stations in Canada were used to compute epicentres. The quality (Q) of the epicentre is indicated by a letter a, b, c, or d ranging from "a" meaning an excellent fit of the observed data to "d" meaning a very poor solution.

JULY 1 at 08 59 59 U.T. Magnitude 2.2. Epicentre at 47.9°N, 123.7°W, Olympic Mountain region, U.S.A. Q:c

JULY 1 at 09 24 36 U.T. Magnitude 2.3. Epicentre at 47.8°N, 123.8°W, Olympic Mountain region, U.S.A. Q:c

JULY 2 at 07 28 28 U.T. 338 km from Penticton.

JULY 2 at 16 54 03 U.T. 95 km from Alberni and 160 km from Victoria.

JULY 4 at 03 04 41 U.T. 280 km from Penticton.

JULY 6 at 13 58 21 U.T. 84 km from Victoria.

JULY 7 at 19 08 05 U.T. 252 km from Penticton.

JULY 7 at 22 51 22 U.T. 174 km from Penticton.

JULY 8 at 05 49 15 U.T. 60 km from Alberni, and 152 km from Victoria.

JULY 8 at 20 21 06 U.T. 243 km from Penticton.

JULY 8 at 23 58 58 U.T. 59 km from Alberni, and 162 km from Victoria.

JULY 9 at 07 44 49 U.T. Magnitude 2.7. Epicentre at 48°32'N, 122°25'W, near Anacortes, Washington, U.S.A. Q:a

JULY 10 at 18 41 30 U.T. 166 km from Penticton.

JULY 11 at 09 54 14 U.T. 78 km from Alberni.

JULY 11 at 23 53 06 U.T. 364 km from Penticton.

JULY 12 at 07 56 43 U.T. 107 km from Victoria and 90 km from Alberni.

JULY 14 at 00 06 21 U.T. 50 km from Victoria.

JULY 15 at 20 46 31 U.T. 222 km from Victoria.

JULY 16 at 01 40 51 U.T. Magnitude 2.8. Epicentre at 49°44'N, 124°55'W, near Texada Island. Q: c.

JULY 24 at 10 39 23.7 U.T. Magnitude 3.9. Epicentre at 50.6°N, 128.9°W, h = 25 km, Vancouver Island region. (U.S.C.G.S. epicentre).

JULY 25 at 02 33 21 U.T. Magnitude 3.2. Epicentre at 49.6° N, 114.4°W, Crowsnest Pass area. Q:b.

JULY 25 at 22 38 32 U.T. 146 km from Penticton.

JULY 28 at 14 52 54 U.T. Magnitude 3.1. Epicentre at 45.9°N, 122.6°W. Northeast of Portland, Oregon, U.S.A.

JULY 28 at 22 48 02.8 U.T. 188 km from Penticton.

JULY 30 at 01 57 52 U.T. Magnitude 2.1. Epicentre at 50.8°N, 119.9°W, possibly near Kamloops. Q:c.

JULY 31 at 23 29 49.8 U.T. 145 km from Penticton.

AUGUST 2 at 19 06 23 U.T. 148 km from Penticton.

AUGUST 2 at 21 54 32 U.T. 160 km from Penticton.

AUGUST 3 at 02 16 43 U.T. 182 km from Victoria, and 174 km from Penticton.

AUGUST 3 at 19 42 32 U.T. 200 km from Penticton.

AUGUST 3 at 21 31 08 U.T. 146 km from Penticton, and 292 km from Victoria. Epicentre probably north west of Merritt, B.C.

AUGUST 3 at 21 43 30 U.T. 278 km from Penticton.

AUGUST 3 at 21 59 09 U.T. 41 km from Banff.

AUGUST 5 at 01 33 12.2 U.T. Magnitude 3.3. 49.4°N, 129.0°W, near coast of Vancouver Island. (U.S.C.G.S. epicentre).

AUGUST 7 at 16 30 20 U.T. 262 km from Penticton.

AUGUST 8 at 18 23 02 U.T. 160 km from Penticton.

DOMINION OBSERVATORIES

AUGUST 9 at 19 26 37.5 U.T. 134 km from Penticton.

AUGUST 9 at 22 21 41 U.T. 160 km from Penticton.

AUGUST 10 at 23 01 41 U.T. 165 km from Penticton possibly near Merritt.

AUGUST 14 at 22 52 40 U.T. 190 km from Penticton.

AUGUST 15 at 19 07 14 U.T. 200 km from Penticton.

AUGUST 19 at 04 56 12 U.T. Magnitude 4.3. Epicentre at 49.8°N, 130.0°W, near coast of Vancouver Island. Q:c.

AUGUST 21 at 03 26 02 U.T. Magnitude 2.3. Epicentre at 48°45'N, 122°44'W, Gulf Islands, U.S.A. Q:a.

AUGUST 21 at 20 01 51 U.T. 150 km from Penticton.

AUGUST 21 at 21 26 42 U.T. 200 km from Penticton.

AUGUST 22 at 19 41 16 U.T. Magnitude 2.6. Epicentre at 49°22'N, 123°37'W, in the Strait of Georgia. Q:a.

AUGUST 22 at 22 47 54 U.T. 150 km from Penticton.

AUGUST 22 at 23 00 56 U.T. 140 km from Penticton.

AUGUST 23 at 01 22 22 U.T. 140 km from Penticton.

AUGUST 25 at 19 01 02 U.T. 169 km from Penticton.

AUGUST 25 at 22 53 02 U.T. 152 km from Penticton.

AUGUST 26 at 01 07 15 U.T. 216 km from Penticton.

AUGUST 26 at 17 01 01 U.T. 138 km from Penticton.

AUGUST 27 at 02 23 16 U.T. 30 km from Victoria.

AUGUST 30 at 22 43 42 U.T. 151 km from Penticton.

SEPTEMBER 2 at 23 22 33 U.T. 162 km from Victoria.

SEPTEMBER 3 at 01 38 34 U.T. 173 km from Penticton.

SEPTEMBER 4 at 20 00 00 U.T. Magnitude 2.7. Epicentre at 47°32'N, 122°57'W, in Puget Sound, Washington, U.S.A. Q:b.

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SEPTEMBER 5 at 18 43 42 U.T. 150 km from Penticton.

SEPTEMBER 6 at 21 07 30 U.T. 139 km from Penticton.

SEPTEMBER 7 at 18 11 17 U.T. Magnitude 2.0. Epicentre at 48°09'N, 122°56'W, Washington, U.S.A. Q:b.

SEPTEMBER 8 at 01 27 28 U.T. 152 km from Victoria.

SEPTEMBER 8 at 04 52 10.3 U.T. Magnitude 5. Epicentre at 51.8°N, 131.2°W near the Queen Charlotte Islands. (U.S.C.G.S. epicentre).

SEPTEMBER 8 at 21 30 12 U.T. 462 km from Penticton.

SEPTEMBER 10 at 01 28 16 U.T. 285 km from Penticton.

SEPTEMBER 12 at 20 11 58 U.T. 142 km from Penticton.

SEPTEMBER 12 at 22 11 48 U.T. 366 km from Penticton.

SEPTEMBER 12 at 22 25 00 U.T. 144 km from Penticton.

SEPTEMBER 13 at 13 54 46 U.T. 293 km from Penticton.

SEPTEMBER 14 at 18 38 40 U.T. 152 km from Penticton.

SEPTEMBER 14 at 22 14 17 U.T. 138 km from Penticton.

SEPTEMBER 14 at 22 52 30 U.T. 135 km from Penticton.

SEPTEMBER 15 at 19 57 33 U.T. 294 km from Penticton.

SEPTEMBER 16 at 03 25 00.3 U.T. Epicentre at 45.9°N, 121.9°W h = 37 km. Southern Washington, U.S.A.

SEPTEMBER 16 at 06 47 00.6 U.T. Magnitude 2.8. Aftershock of previous Washington, U.S.A.

SEPTEMBER 16 at 06 50 19.8 U.T. Magnitude 2.9. Aftershock of previous Washington, U.S.A.

SEPTEMBER 16 at 11 46 04.5 U.T. Magnitude 3.2. at 46°11'N, 122°17'W, Washington, U.S.A.

SEPTEMBER 17 at 15 56 01 U.T. 265 km from Victoria.

SEPTEMBER 18 at 02 25 19.3 U.T. Epicentre at 48.8°N, 128.9°W, west of Vancouver Island. (U.S.C.G.S. epicentre).

DOMINION OBSERVATORIES

SEPTEMBER 18 at 02 29 08 U.T. 207 km from Alberni.

SEPTEMBER 18 at 12 32 38 U.T. 262 km from Alberni.

SEPTEMBER 18 at 19 29 06 U.T. 45 km from Victoria, and 116 km from Alberni.

SEPTEMBER 18 at 21 35 17.2 U.T. Vancouver Island region (U.S.C.G.S. epicentre)

SEPTEMBER 20 at 22 18 33 U.T. 144 km from Penticton.

SEPTEMBER 20 at 22 50 12 U.T. 141 km from Penticton.

SEPTEMBER 20 at 22 52 45 U.T. 188 km from Penticton.

SEPTEMBER 20 at 23 18 03 U.T. 68 km from Penticton.

SEPTEMBER 21 at 23 10 55 U.T. 300 km from Penticton.

SEPTEMBER 23 at 00 06 19 U.T. 143 km from Penticton.

SEPTEMBER 23 at 00 08 12 U.T. 273 km from Penticton.

SEPTEMBER 23 at 08 06 50 U.T. Magnitude 2.1. Epicentre at 48.1°N, 124.5°W, Olympic Mountains, Washington, U.S.A. Q:c.

SEPTEMBER 24 at 21 32 47 U.T. 168 km from Penticton.

SEPTEMBER 25 at 21 47 58 U.T. 150 km from Penticton.

SEPTEMBER 26 at 12 15 47 U.T. 274 km from Penticton.

SEPTEMBER 26 at 13 38 06 U.T. 138 km from Penticton, and 310 km from Victoria.

SEPTEMBER 27 at 06 35 26 U.T. 50 km from Victoria.

SEPTEMBER 27 at 19 05 00.2 U.T. 22 km from Penticton.

SEPTEMBER 27 at 20 20 54 U.T. 166 km from Penticton.

SEPTEMBER 28 at 23 21 23 U.T. 132 km from Penticton.

SEPTEMBER 28 at 23 27 16 U.T. 157 km from Penticton.

SEPTEMBER 30 at 06 49 51 U.T. 132 km from Penticton.

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1962

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of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES
1962

SEISMOLOGICAL BULLETIN - 1961

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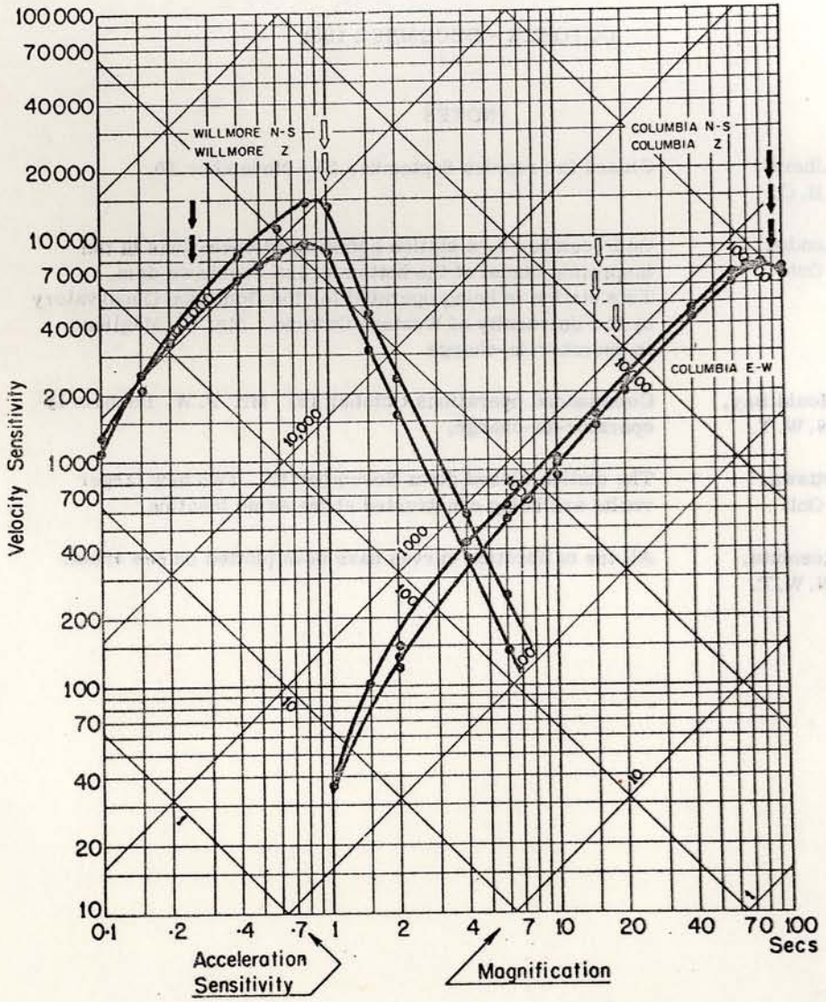
NOTES

1. Alberni B.C.	Closed for repairs September 23 - November 10.
2. London, Ont.	On December 7, a station commenced operations in the inspection tunnel at the bottom of the Fanshawe dam. This station is being operated for the Dominion Observatory by the University of Western Ontario. Mr. C. Magliano is operator-in-charge.
3. Mould Bay, N.W.T.	Commenced operations October 18. Mr. P.W. Basham is operator-in-charge.
4. Ottawa, Ont.	The station closed down November 13. Two new larger vaults are being constructed at the same location.
5. Resolute, N.W.T.	All the calibration curves have been plotted on one sheet.

CALIBRATION CURVES

STATION: ALERT, N.W.T.



ϕ = 82°29'N λ = 62°24'W Altitude 65M.(C.a)

Foundation : Permanently frozen glacial debris overlying Palaeozoic limestone

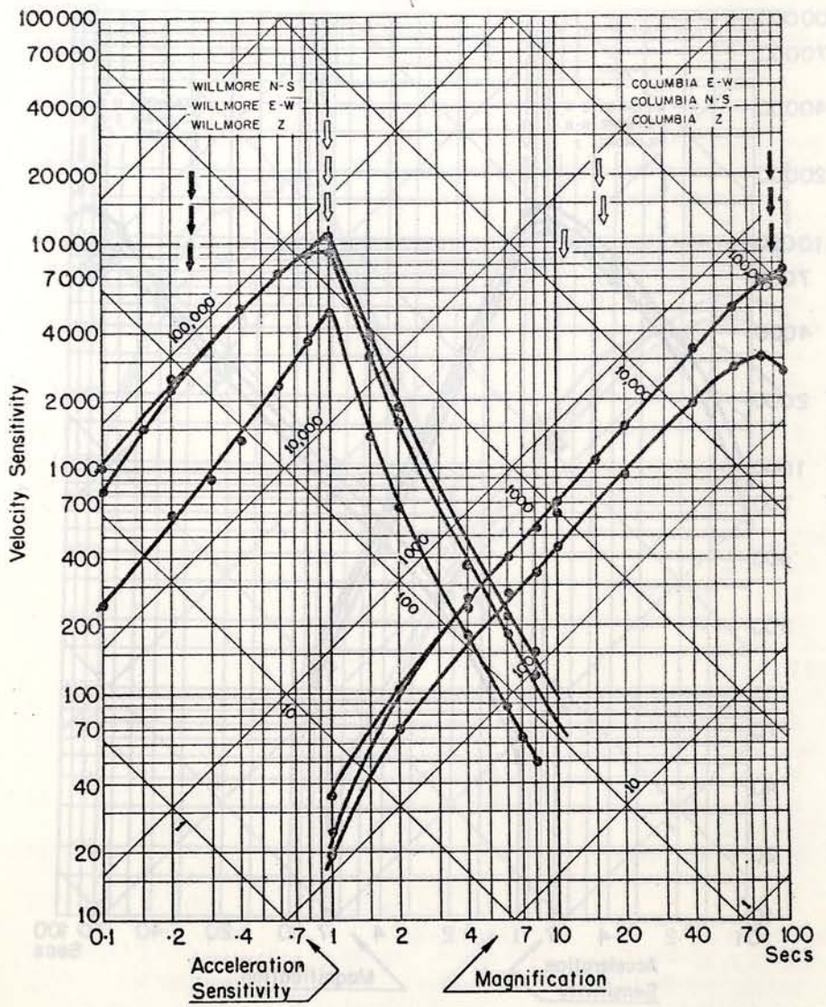
T_s T_g

Date of Calibration: 1961

WILLMORE'S		COLUMBIA'S	
S.P.Z.	SEPT. 29	L.P.Z.	SEPT. 30
S.P.H.-N.S.	SEPT. 29	L.P.H.-N.S.	OCT. 2
		L.P.H.-E.W.	OCT. 1

CALIBRATION CURVES

STATION: LONDON, ONT.



ϕ = 43°02.4'N λ = 81°11.0'W Altitude

Foundation : Devonian limestone

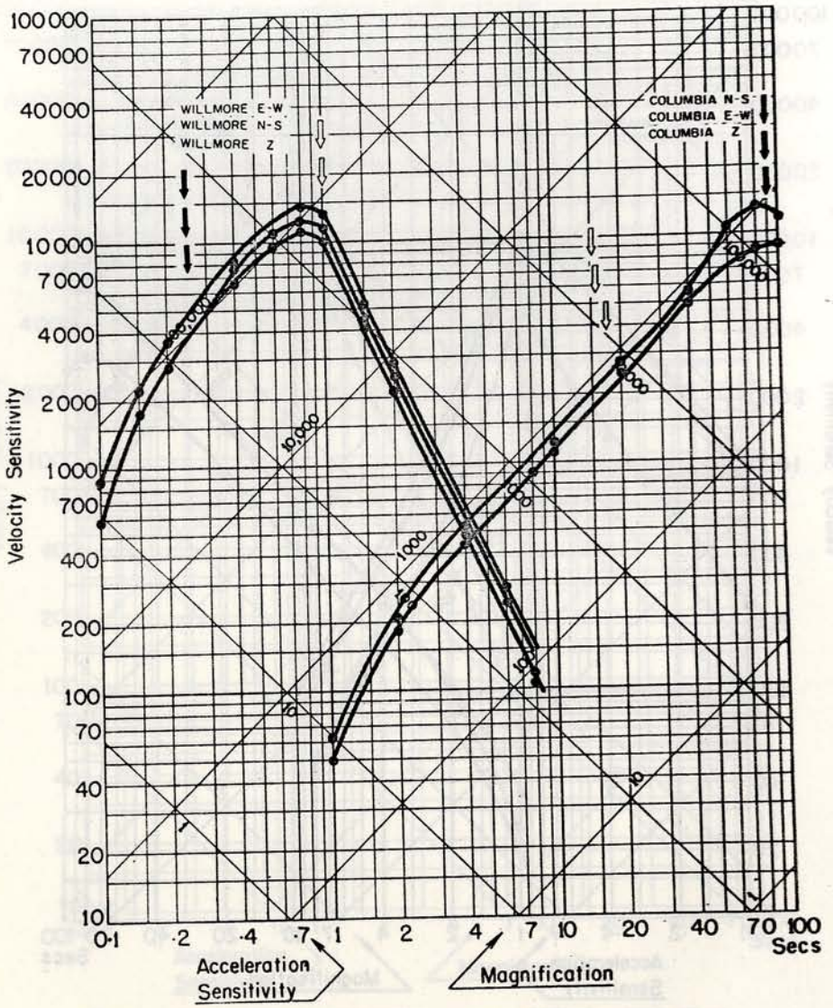
T_s T_g

Date of Calibration: 1961

WILLMORE'S		COLUMBIA'S	
S.P.Z.	DEC. 14	L.P.Z.	DEC. 13
S.P.H.-N.S.	DEC. 11	L.P.H.-N.S.	DEC. 12
S.P.H.-E.W.	DEC. 11	L.P.H.-E.W.	DEC. 13

CALIBRATION CURVES

STATION: MOULD BAY, N.W.T.



ϕ = 76°14'N λ = 119°20'W Altitude

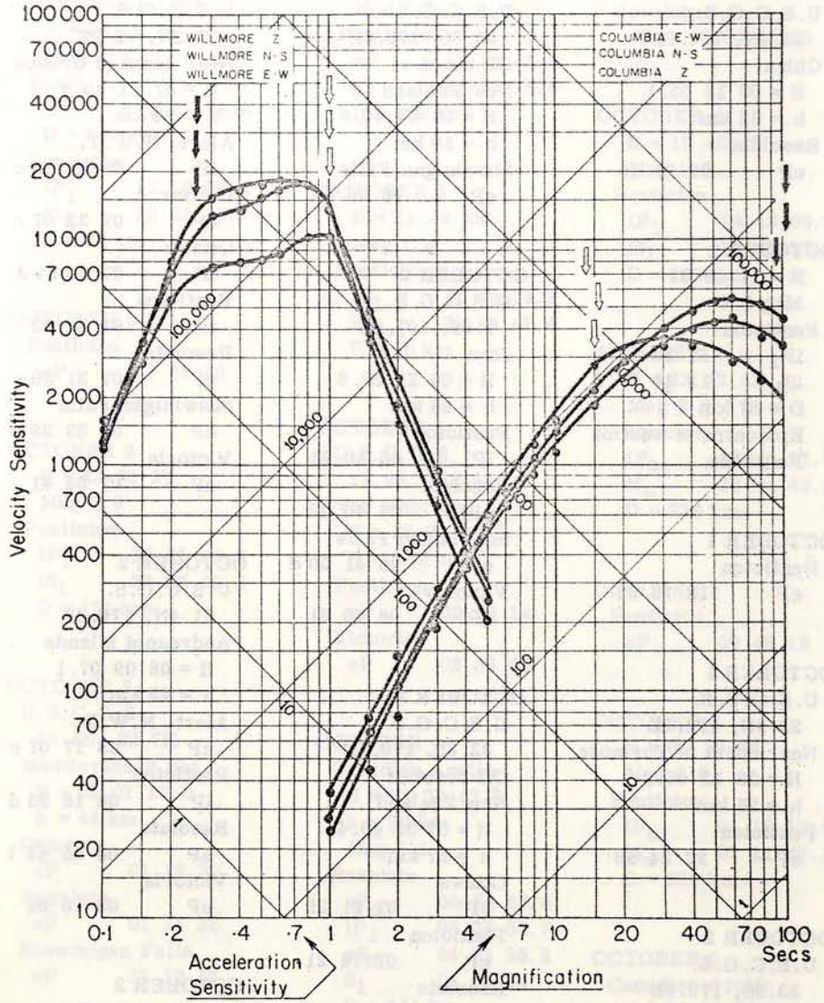
Foundation : Regolith and Solifluxion deposits overlying Devonian sandstone. (Permafrost)

T_s ⇧ T_g ⇧

Date of Calibration: At Ottawa JUNE 1961

CALIBRATION CURVES

STATION: RESOLUTE, N.W.T.



ϕ = 74°41.2'N λ = 94°54.0'W Altitude 15M

Foundation : Early Palaeozoic limestone

T_s ⇧ T_g ⇧

Date of Calibration: 1958-59

WILLMORES		COLUMBIAS	
S.P.Z.	AUG. 18	L.P.Z.	SEPT. 17
S.P.H.-N.S.	AUG. 18	L.P.H.-N.S.	SEPT. 15
S.P.H.-E.W.	JAN. 27	L.P.H.-E.W.	SEPT. 15

DOMINION OBSERVATORIES

OCTOBER 1
U.S.C.G.S.
34.4N, 104.9E
China
H = 00 16 03.1
h = 32 km
Resolute
eP 00 27 16

OCTOBER 1
H = 11 39 39
Mag 2.0
Penticton
iP_1 11 39 53.1
iS_1 11 40 03.7
D = 87 km
Epicentre is west of Penticton

OCTOBER 1
Penticton
eP 12 16 02

OCTOBER 1
U.S.C.G.S.
23.9N, 122.3E
Near coast of Formosa
H = 23 12 05.2
h = 25 km
Penticton
eP 23 24 59

OCTOBER 2
U.S.C.G.S.
33.9S, 179.6E
Off coast of
New Zealand
H = 05 53 37.5
h = 30 km
Shawinigan Falls
eP' 06 12 43

OCTOBER 2
U.S.C.G.S.
33.8S, 179.6E
Off coast of
New Zealand
H = 06 07 40.0
h = 50 km
Shawinigan Falls
eP' 06 26 44

OCTOBER 2
U.S.C.G.S.
7.6S, 107.0E
Java
H = 06 21 32.8
h = 85 km
Penticton
iP' 06 40 25
Resolute
eP' 06 40 02
Shawinigan Falls
eP' 06 41 00 d
Victoria
eP' 06 40 21

OCTOBER 2
U.S.C.G.S.
33.8S, 179.5E
Off coast of
New Zealand
H = 07 02 40.4
h = 57 km
Ottawa
eP' 07 21 29
Penticton
eP 07 16 21
Resolute
eP' 07 21 33?
Shawinigan Falls
eP' 07 21 35
Victoria
eP 07 16 09

OCTOBER 2
U.S.C.G.S.
37.2N, 22.2E
Near coast of Greece
H = 07 21 49.4
h = 72 km
Alert, N.W.T.
iP 07 31 00 c
Halifax
eP 07 32 07 c
Ottawa
iP 07 32 54 d
Penticton
iP 07 34 33
Resolute
eP 07 31 59 c
Shawinigan Falls
eP 07 32 39 c
Victoria
eP 07 34 41

OCTOBER 2
U.S.C.G.S.
51.4N, 179.4E
Andreanof Islands
H = 08 09 07.1
h = 45 km
Alert, N.W.T.
eP 08 17 07 c
Penticton
iP 08 16 25 d
Resolute
eP 08 15 44 ?
Victoria
eP 08 16 09

OCTOBER 2
Alert, N.W.T.
P 09 43 48

OCTOBER 2
Alert, N.W.T.
i 09 48 01

OCTOBER 2
49.7°N, 118.6°W
British Columbia
H = 12 52 26
Mag 2.0
Banff
iP 12 53 06.6
D = 280 km
Penticton
iP_1 12 52 39.3
iS_1 12 52 49.7
D = 85 km

OCTOBER 2
Penticton
eP 14 01 10

OCTOBER 2
H = 23 31 27
Mag 1.9
Penticton
iP_1 23 31 50.8
iS_1 23 32 09.2
D = 151 km

OCTOBER 3
U.S.C.G.S.
35.4N, 22.7E
Mediteranean Sea
H = 01 01 13.0
h = 44 km
Ottawa
eP 01 12 30
Resolute
eP 01 11 38
Shawinigan Falls
eP 01 12 17

OCTOBER 3
Resolute
iP 06 49 05

OCTOBER 3
H = 17 34 05.5
Mag 2.1
Penticton
eP 17 34 45.9
eS 17 35 16.6
D = 252 km

OCTOBER 3
H = 21 49 28
Mag 1.6
Penticton
iP_1 21 49 39.2
iS_1 21 49 47.4
D = 68 km

OCTOBER 4
U.S.C.G.S.
13.2S, 166.5E
New Hebrides
H = 02 23 23.5
h = 66 km
Penticton
eP 02 36 14
Victoria
eP 02 36 03

OCTOBER 4
Canadian Arctic
H = 04 33 42.3
h = 20 km
Mag 3.1
Resolute
eP_n 04 34 42.0
iP_1 04 34 53.7
eS_n 04 35 25.2
S_1 04 35 35
D = 444 km

OCTOBER 4
U.S.C.G.S.
51.8N, 158.8E
Kamchatka
H = 04 30 42.7
h = 25 km
Alert, N.W.T.
iP | 04 38 52 c
Penticton
eP 04 39 33
Resolute
eP 04 38 59

OCTOBER 4
H = 19 42 37
Mag 1.9
Penticton
iP_1 19 43 00.2
iS_1 19 43 18.1
D = 147 km

OCTOBER 4
H = 23 43 42
Mag 2.0
Penticton
iP_n 23 44 17.6
iS_n 23 44 46.5
D = 236 km

OCTOBER 5
Penticton
eP 00 46 19

OCTOBER 5
H = 01 10 30
Mag 2.6
Penticton
iP_n 01 11 12.0
iS_n 01 11 47.3
D = 288 km

OCTOBER 5
Canadian Arctic
H = 06 33 39.5
Mag 2.1
Resolute
iP_1 06 33 50.0
iS_1 06 33 58.0
D = 65.6 km

OCTOBER 5
Penticton
eP 17 31 29
Resolute
eP 17 29 26
S? 17 36 22
Victoria
eP 17 31 11

OCTOBER 5
U.S.C.G.S.
19.4S, 169.0E
Loyalty Islands
H = 18 08 43.4
h = 58 km
Penticton
iP 18 21 52 c
Victoria
eP 18 21 40

OCTOBER 5
U.S.C.G.S.
24.0N, 121.9E
Near coast of Formosa
H = 22 35 00.8
h = 56 km
Banff
eP 22 47 56
Penticton
eP 22 47 50
Resolute
eP 22 46 59
Victoria
eP 22 47 44

OCTOBER 5
U.S.C.G.S.
51.0N, 149.7E
Sea of Okhotsk
H = 23 01 07.3
h = 518 km
Penticton
iP 23 09 50 c
Resolute
iP 23 09 00
Victoria
eP 23 09 38

OCTOBER 6
U.S.C.G.S.
47.6N, 152.0E
Kurile Islands
H = 01 25 29.3
h = 31 km
Resolute
eP 01 34 25

OCTOBER 6
Penticton
eP 03 32 41

OCTOBER 6
U.S.C.G.S.
16.0N, 97.9W
Near coast of Mexico
H = 08 02 19.1
h = 32 km
Penticton
eP 08 09 35

OCTOBER 6
Penticton
eP 09 14 38

OCTOBER 6
U.S.C.G.S.
42.4N, 142.1E
Hokkaido Japan
H = 11 04 22.5
h = 115 km
Alert, N.W.T.
eP 11 13·41 d
Penticton
eP 11 14 44
Resolute
iP 11 14 00

OCTOBER 7
U.S.C.G.S.
21.3S, 67.5W
Bolivia
H = 08 15 08.0
h = 149 km
Penticton
eP 08 27 25

OCTOBER 7
U.S.C.G.S.
0.4S, 80.2W
Near coast of
Ecuador
H = 09 55 54.2
h = 48 km
Alert, N.W.T.
eP 10 08 16
Penticton
eP 10 05 58
Resolute
eP 10 07 34

OCTOBER 7
U.S.C.G.S.
43.5N, 128.8W
Off coast of Oregon
H = 15 54 01.3
h = 25 km
Banff
eP 15 56 10
Halifax
eP 16 02 21
Penticton
eP 15 55 25
Resolute
eP 16 00 12
Victoria
eP 15 54 53.5

OCTOBER 7
U.S.C.G.S.
20.1S, 68.3W
Chile-Bolivia border
H = 17 26 48.8
h = 179 km
Penticton
eP 17 38 55
e 17 49 14

OCTOBER 7
48°40'N±12',
76°35'W±12'
Quebec
H = 22 36 50.9
h = 8 km?
Mag 3.8
Montreal
e 22 37 54
iP_1 22 37 58
eS_n 22 38 31
iS_1 22 38 49
D = 418 km
Ottawa
eP_1 22 37 50
i 22 38 13
iS_1 22 38 35
D = 369 km
Shawinigan Falls
S_1 22 38 41?
D = 362 km

OCTOBER 8
H = 00 01 27
Mag 1.9
Penticton
iP_1 00 01 51.1
eS_1 00 02 09.6
D = 152 km

OCTOBER 8
Resolute
P 03 36 12

OCTOBER 8
U.S.C.G.S.
29.9S, 71.8W
Near coast of
Chile
H = 12 41 35.1
h = 65 km
Halifax
iP 12 53 09 d
Penticton
eP 12 54 29

OCTOBER 8
Penticton
eP 14 45 46

OCTOBER 8
U.S.C.G.S.
53.1N, 166.7W
Fox Islands
H = 21 56 44.0
h = 48 km
Alert, N.W.T.
iP 22 04 14 c
Ottawa
eP 22 06 19
Resolute
eP 22 03 33?
Penticton
eP 22 02 45

OCTOBER 8
U.S.C.G.S.
1.6N, 127.3E
Halmahera
H = 23 41 32.2
h = 102 km
Alert, N.W.T.
P 23 54 52
Ottawa
eP' 24 00 30
Resolute
iP 23 55 08

OCTOBER 9
Penticton
eP 00 22 15

OCTOBER 9
U.S.C.G.S.
16.1N, 94.0W
Near coast of Mexico
H = 03 16 58.2
h = 154 km
Banff
eP 03 24 14
Penticton
eP 03 24 16
Resolute
eP 03 26 29?

OCTOBER 9
Penticton
eP 13 12 52.8

OCTOBER 9
H = 23 52 49
Mag 1.9
Penticton
iP_n 23 53 21.1
eS_n 23 53 46.1
D = 205 km

OCTOBER 10
Penticton
eP 00 44 51

OCTOBER 10
Resolute
eP 01 55 39

OCTOBER 10
U.S.C.G.S.
22.9S, 180.0
South of Fiji Islands
H = 03 44 38.3
h = 576 km
Penticton
iP 03 56 41

OCTOBER 10
U.S.C.G.S.
5.4S, 154.3E
Solomon Islands region
H = 08 25 54.6
h = 154 km
Ottawa
eP' 08 44 29

OCTOBER 10
Penticton
eP 10 40 29

OCTOBER 10
U.S.C.G.S.
16.1S, 176.3W
Fiji Islands region
H = 18 44 28.6
h = 361 km
Banff
eP 18 56 26
Penticton
eP 18 56 10
Victoria
eP 18 55 58

OCTOBER 10
Penticton
eP 20 22 14

OCTOBER 10
Victoria
iP 22 13 42 d

OCTOBER 11
Penticton
eP 00 44 20

OCTOBER 11
Alert, N.W.T.
P 01 07 48?

OCTOBER 11
U.S.C.G.S.
57.5N, 154.1W
Kodiak Island
H = 07 03 58.6
h = 42 km
Alert, N.W.T.
iP 07 10 38 d
Ottawa
eP 07 12 31
Penticton
iP 07 08 52
Resolute
P 07 09 46
Victoria
eP 07 08 34

OCTOBER 11
U.S.C.G.S.
50.4N, 77.4E
Kazaka, S.S.R.
H = 07 40 04.8
h = 31 km
Penticton
eP 07 52 11

OCTOBER 11
U.S.C.G.S.
24.5S, 179.8E
South of Fiji Islands
H = 16 04 18.0
h = 560 km
Penticton
eP 16 16 20

OCTOBER 11
U.S.C.G.S.
29.7N, 129.7E
Ryukyu Islands
H = 17 20 15.4
h = 52 km
Resolute
eP 17 31 37 c

OCTOBER 11
Canadian Arctic
H = 19 47 17.4?
Mag 3.1
Resolute
iP_1 19 47 37.1
iS_1 19 47 52?
D = 123 km

OCTOBER 11
H = 22 20 55
Mag 2.3
Penticton
iP_n 22 21 41.2
iS_n 22 22 21.0
D = 326 km

OCTOBER 11
Canadian Arctic
H = 23 58 46.3
Mag 2.3
Resolute
iP_1 23 59 06
iS_1 23 59 21
D = 123 km

OCTOBER 12
Penticton
eP 06 04 08

OCTOBER 12
Penticton
eP 10 11 14

OCTOBER 12
U.S.C.G.S.
19.1N, 66.0W
North of Puerto
Rico
H = 13 53 41.3
h = 63 km
Ottawa
eP 14 00 02

OCTOBER 12
Penticton
eP 18 03 38

OCTOBER 12
H = 19 27 43
Mag 1.9
Penticton
iP_1 19 28 09.0
iS_1 19 28 28.5
D = 160 km

OCTOBER 12
H = 23 50 54
Mag 2.2
Penticton
iP_1 23 51 20.9
iS_1 23 51 41.3
D = 167 km

OCTOBER 13
U.S.C.G.S.
6.3N, 126.8E
Off coast of
Mindanao,
Philippine Islands
H = 02 21 44.6
h = 60 km
Resolute
eP 02 35 07 d

OCTOBER 13
U.S.C.G.S.
55.9S, 27.2W
Sandwich Islands
H = 04 59 04.8
h = 67 km
Mag 5 1/4
Alert, N.W.T.
eP' 05 18 16
Penticton
eP' 05 18 07
Resolute
eP' 05 18 22
e 05 21 43

OCTOBER 13
U.S.C.G.S.
60.3S, 34.3W
Sandwich Islands
H = 10 46 47.7
h = 44 km
Mag 5 1/2
Alert, N.W.T.
eP' 11 06 12?
Penticton
iP' 11 05 51
Resolute
eP' 11 06 06

OCTOBER 13
Penticton
eP 16 04 50

OCTOBER 13
H = 16 33 37
Mag 2.1
Penticton
eP_1 16 34 06.4
eS_1 16 34 28.8
D = 184 km

OCTOBER 13
U.S.C.G.S.
22.0S, 176.9W
Tonga Islands region
H = 17 28 21.5
h = 155 km
Banff
iP 17 41 06 d
Penticton
iP 17 40 52 d
Victoria
eP 17 40 40 d

OCTOBER 13
Penticton
eP 18 03 39

OCTOBER 13
Penticton
iP 18 59 05 c

OCTOBER 13
Penticton
eP 21 08 44

OCTOBER 13
H = 21 24 57
Mag 1.6
Penticton
eP_1 21 25 24.2
eS_1 21 25 44.6
D = 167 km

OCTOBER 14
Penticton
eP 00 15 06

OCTOBER 14
Penticton
eP 00 43 29

OCTOBER 14
U.S.C.G.S.
33.3N, 142.2E
South of Honshu
Japan
H = 12 30 45.3
h = 47 km
Penticton
eP 12 41 57
Resolute
iP 12 41 29 c

OCTOBER 14
Penticton
eP 15 12 08

OCTOBER 14
U.S.C.G.S.
19.1S, 168.4E
New Hebrides
H = 16 13 48.7
h = 28 km
Penticton
eP 16 27 00

OCTOBER 14
Canadian Arctic
H = 18 18 20
Mag 4.8
Resolute
eP_n 18 20 53
iS_n 18 22 42.5
eL_g 18 23 40
D = 1200 km

OCTOBER 14
H = 19 57 45
Mag 1.5
Penticton
eP_1 19 58 07.0
eS_1 19 58 24.0
D = 139 km

OCTOBER 14
U.S.C.G.S.
0.9S, 80.3W
Near coast of
Ecuador
H = 21 18 03.4
h = 25 km
Penticton
eP 21 28 18

OCTOBER 14
U.S.C.G.S.
51.1N, 159.1E
Kamchatka
H = 21 58 57.4
h = 80 km
Alert, N.W.T.
eP 22 07 07 d
Halifax
eP 22 10 46.5
Penticton
eP 22 07 40
Resolute
eP 22 07 11
i 22 13 49

OCTOBER 15
Penticton
eP 01 42 51

OCTOBER 15
47°12'N, 123°14'W
Washington, U.S.A.
H = 04 53 13
Mag 2.7
Penticton
eP_n 04 54 03.8
eS_n 04 54 42.3
D = 360 km
Victoria
eP_1 04 53 36.7
eS_1 04 53 54.6
D = 147 km

OCTOBER 15
Penticton
eP 07 17 37

OCTOBER 15
U.S.C.G.S.
4.1S, 102.3E
Near coast of
Sumatra
H = 17 07 55.6
h = 66 km
Penticton
iP' 17 26 47

OCTOBER 16
Penticton
eP 00 49 28

OCTOBER 16
Penticton
iP 01 16 02
Resolute
eP 01 15 30

OCTOBER 16
U.S.C.G.S.
19.9S, 176.1W
Tonga Islands region
H = 03 27 44.1
h = 224 km
Penticton
eP 03 39 56

OCTOBER 16
Resolute
eP 07 07 40 d

OCTOBER 16
Penticton
eP 09 38 15

OCTOBER 16
H = 12 34 46
Mag 2.5
Victoria
iP_1 12 35 00.9
iS_1 12 35 12.2
D = 92 km

OCTOBER 16
Canadian Arctic
H = 17 54 12
h = 17 km
Mag 4.0
Resolute
eP_n 17 55 48
iP_1 17 56 11
iS_n 17 56 58
iS_1 17 57 33
D = 740 km

OCTOBER 17
U.S.C.G.S.
55.8S, 0.5E
Bouvet Islands region
H = 04 27 33.5
h = 25 km
Resolute
eP' 04 47 05?
Victoria
eP' 04 47 07

OCTOBER 17
U.S.C.G.S.
12.1N, 143.4E
South of Guam
H = 11 02 32.7
h = 25 km
Resolute
eP 11 15 17?

OCTOBER 17
H = 19 38 50
Mag 1.8
Penticton
iP_1 19 39 16.3
iS_1 19 39 36.4
D = 165 km

OCTOBER 17
Penticton
eP 22 40 41

OCTOBER 18
U.S.C.G.S.
29.9S, 177.6W
Kermadec Islands
H = 02 49 59.6
h = 65 km
Resolute
eP' 03 08 36?

OCTOBER 18
U.S.C.G.S.
15.1S, 173.9W
Tonga Islands
H = 06 38 43.8
h = 91 km
Penticton
eP 06 50 45

OCTOBER 18
U.S.C.G.S.
17.4S, 178.6W
Fiji Islands region
H = 07 31 39.3
h = 576 km
Penticton
eP 07 43 17

OCTOBER 18
U.S.C.G.S.
53.6N, 165.6W
Fox Islands
H = 10 44 10.7
h = 47 km
Penticton
eP 10 50 06
Resolute
eP 10 50 55

OCTOBER 18
48.9°N, 122.3°W
Washington, U.S.A.
H = 13 45 59
Mag 2.2
Penticton
iP_n 13 46 42.5
D = 187 km
Victoria
iP_1 13 46 11.6
iS_1 13 46 21.5
D = 93 km

OCTOBER 18
U.S.C.G.S.
23.2N, 94.7E
Burma
H = 15 31 19.2
h = 105 km
Resolute
eP 15 43 34 d

OCTOBER 18
U.S.C.G.S.
36.7S, 72.6W
Near coast of
Southern Chile
H = 16 52 00.2
h = 67 km
Mag 6 1/2
Banff
eP 17 05 19
Halifax
eP 17 04 11.5 c
Ottawa
eP 17 04 13 c

DOMINION OBSERVATORIES

Penticton
eP 17 05 15
Victoria
eP 17 05 21

OCTOBER 18
Resolute
eP 18 10 49

OCTOBER 18
U.S.C.G.S.
36.9S, 73.5W
Near coast of
Central Chile
H = 18 10 30.4
h = 55 km
Halifax
eP 18 22 46

OCTOBER 18
H = 21 32 57
Mag 2.0
Penticton
iP 21 33 21.7
iS 21 33 40.2
D = 152 km

OCTOBER 18
H = 21 47 23
Mag 2.2
Penticton
iP_1 21 47 48.3
iS_1 21 48 07.7
D = 159 km

OCTOBER 18
Penticton
eP 23 05 25

OCTOBER 18
H = 23 56 59
Mag 1.9
Penticton
eP_1 23 57 27.1
eS_1 23 57 48.0
D = 171 km

OCTOBER 19
Penticton
eP 00 11 48.1

OCTOBER 19
Penticton
eP 00 16 44

OCTOBER 19
Penticton
eP 00 26 07

OCTOBER 19
Mould Bay
P 03 06 38

OCTOBER 19
Penticton
eP 03 07 57
Victoria
eP 03 07 06

OCTOBER 19
Penticton
iP 03 38 23

OCTOBER 19
Penticton
eP 03 56 08
Resolute
eP? 03 58 17

OCTOBER 19
U.S.C.G.S.
35.8N, 117.9W
Southern California
H = 05 09 44.0
h = 22 km
Mag 5.3
Banff
eP 05 13 27
Mould Bay
P 05 17 26
Penticton
eP 05 13 01
Resolute
eP 05 17 18?
Victoria
eP 05 12 57

OCTOBER 19
Mould Bay
P 06 24 58

OCTOBER 19
Penticton
eP 09 29 28

OCTOBER 19
U.S.C.G.S.
55.2S, 146.0E
West of Macquarie
Islands
H = 09 12 28.5
h = 86 km
Mould Bay
P' 09 32 01
Ottawa
eP' 09 32 18
Resolute
eP' 09 32 13 d?

OCTOBER 19
Mould Bay
iP 10 06 06

OCTOBER 19
U.S.C.G.S.
43.0N, 139.2E
Sea of Japan
H = 10 56 53.6
h = 242 km
Penticton
eP 11 07 12
Resolute
eP 11 06 18

OCTOBER 19
Penticton
eP 11 28 47

OCTOBER 19
U.S.C.G.S.
37.1S, 69.8W
Argentina
H = 11 19 19.6
h = 155 km
Mag 6 1/4
Halifax
iP 11 31 25 d
Ottawa
eP 11 31 26 c
Penticton
eP 11 32 31

OCTOBER 19
Penticton
eP 11 49 16

OCTOBER 19
Penticton
eP 11 59 56

OCTOBER 19
Penticton
eP 18 19 14
Resolute
eP 18 19 23

OCTOBER 19
H = 19 03 46
Mag 1.7
Penticton
iP_1 19 04 11.2
iS_1 19 04 30.6
D = 159 km

OCTOBER 19
H = 19 34 43
Mag 2.0
Penticton
iP_1 19 35 05.2
iS_1 19 35 22.3
D = 140 km

OCTOBER 19
U.S.C.G.S.
55.3S, 146.4E
South of Australia
H = 19 26 32.2
h = 50 km
Ottawa
eP' 19 46 17
Penticton
eP' 19 45 38

OCTOBER 19
Penticton
eP 20 01 37

OCTOBER 19
U.S.C.G.S.
17.6S, 174.0W
Tonga Islands
H = 20 24 41.9
h = 25 km
Penticton
eP 20 37 04

OCTOBER 19
47.5°N, 122.9°W
Washington, U.S.A.
H = 20 37 49.6
Mag 3.0
Penticton
iP_n 20 38 35.0
D = 318 km
Victoria
iP_1 20 38 08.3
iS_1 20 38 22.2
D = 117 km

OCTOBER 19
Resolute
eP 20 46 18 c?

OCTOBER 19
Penticton
eP 22 12 55

OCTOBER 20
U.S.C.G.S.
51.8N, 176.0W
Andreanof Islands
H = 05 40 44.1
h = 36 km
Penticton
iP 05 47 37 d

OCTOBER 20
Penticton
eP 10 21 06

OCTOBER 20
U.S.C.G.S.
33.6N, 118.0W
California
H = 19 49 50.5
h = 17 km
Mag 4.6
Penticton
eP 19 53 37

DOMINION OBSERVATORIES

OCTOBER 20
U.S.C.G.S.
33.7N, 118.0W
California
H = 20 07 14.8
h = 20 km
Mag 4.2
Penticton
eP 20 11 05

OCTOBER 20
H = 23 53 51
Mag 1.9
Penticton
iP_1 23 54 16.9
iS_1 23 54 37.0
D = 165 km

OCTOBER 21
Penticton
eP 00 41 00

OCTOBER 21
U.S.C.G.S.
18.0S, 178.5W
Fiji Islands
H = 11 43 41.3
h = 618 km
Banff
eP 11 55 34 c
Penticton
iP 11 55 17 c
Victoria
eP 11 55 05

OCTOBER 21
Resolute
eP 17 12 50 d?

OCTOBER 21
U.S.C.G.S.
10.8S, 166.0E
Santa Cruz Islands
H = 17 34 36.8
h = 192 km
Penticton
iP 17 47 07 c

OCTOBER 21
U.S.C.G.S.
51.6N, 176.0W
Andreanof Islands
H = 22 21 52.2
Penticton
iP 22 28 48

OCTOBER 22
Penticton
eP 00 09 28

OCTOBER 22
U.S.C.G.S.
0.2S, 94.6W
West of Galapagos Islands
H = 07 01 42.1
h = 60 km
Penticton
iP 07 11 05 d

OCTOBER 22
U.S.C.G.S.
19.9S, 172.4E
New Hebrides Islands
H = 09 50 43.6
h = 181 km
Mag 5 1/2
Penticton
iP 10 03 31
Victoria
eP 10 03 19

OCTOBER 22
H = 10 36 58
Mag 2.1
Penticton
iP 10 37 33.2
D = 230 km
Victoria
iP_1 10 37 10.8
iS_1 10 37 20.2
D = 77 km

OCTOBER 22
U.S.C.G.S.
2.2N, 95.9W
West of Galapagos Islands
H = 13 06 31.1
h = 65 km
Penticton
eP 13 17 07

OCTOBER 22
Penticton
iP 13 23 33

OCTOBER 22
Penticton
eP 14 37 57

OCTOBER 22
U.S.C.G.S.
17.6S, 179.6W
Fiji Islands
H = 14 40 56.6
h = 549 km
Penticton
iP 14 52 40 c

OCTOBER 22
U.S.C.G.S.
10.5N, 86.6W
Off coast of Costa Rica
H = 15 13 32.3
h = 51 km
Penticton
eP 15 22 07

Resolute
eP 15 24 04

OCTOBER 22
Resolute
eP 19 11 17 ?

OCTOBER 23
U.S.C.G.S.
60.4S, 33.4W
Sandwich Islands
H = 00 08 33.3
h = 25 km
Alert, N.W.T.
eP' 00 28 03 d
Penticton
eP' 00 27 43
Resolute
eP' 00 28 04 c

OCTOBER 23
U.S.C.G.S.
28.9S, 70.5W
Chile
H = 01 24 00.6
h = 125 km
Penticton
iP 01 36 48 d

OCTOBER 23
Penticton
eP 03 06 48

OCTOBER 23
Penticton
eP 04 33 32

OCTOBER 23
U.S.C.G.S.
54.0N, 163.8W
Unimak Island
H = 07 54 58.9
h = 35 km
Penticton
eP 08 00 54

Resolute
eP 08 01 42

OCTOBER 23
Alert, N.W.T.
iP 08 36 05 d
S 08 39 56 ? d
L 08 41 38 ? d

OCTOBER 23
Alert, N.W.T.
iP 10 36 04 d
Penticton
iP 10 40 59 d
Resolute
eP 10 37 31 d

OCTOBER 23
U.S.C.G.S.
3.5N, 126.4E
Molucca Passage
H = 14 39 33.5
h = 25 km
Alert, N.W.T.
eP 14 52 54 d
Penticton
eP 14 53 35
Resolute
eP 14 53 11

OCTOBER 23
U.S.C.G.S.
3.5N, 126.6E
Molucca Passage
H = 14 52 28.2
h = 32 km
Resolute
eP 15 06 06

OCTOBER 23
U.S.C.G.S.
16.8S, 173.6W
Tonga Islands
H = 17 11 53.3
h = 49 km
Penticton
iP 17 24 10

OCTOBER 24
U.S.C.G.S.
42.9N, 144.6E
Hokkaido Japan
H = 00 18 18.6
h = 14 km
Resolute
eP 00 28 01

OCTOBER 24
U.S.C.G.S.
45.0N, 146.4E
Off coast of Hokkaido Japan
H = 07 25 19.9
h = 82 km
Alert, N.W.T.
eP 07 34 04 c
Banff
iP_2 07 35 26 c
Penticton
iP 07 35 19 c
Resolute
eP 07 34 36
Victoria
eP 07 35 07

OCTOBER 24
U.S.C.G.S.
16.5S, 178.3E
Fiji Islands
H = 07 36 17.1
h = 40 km
Penticton
iP 07 48 53

OCTOBER 24
Penticton
eP 08 10 48

OCTOBER 24
Penticton
eP 17 30 44

DOMINION OBSERVATORIES

OCTOBER 24
Penticton
eP 18 23 41
Resolute
eP 18 23 53?

OCTOBER 24
Penticton
eP 18 27 03

OCTOBER 24
Penticton
eP 21 36 21

OCTOBER 24
Penticton
eP 21 51 18

OCTOBER 24
Penticton
eP 22 59 46

OCTOBER 24
Penticton
eP 23 15 36

OCTOBER 24
Penticton
eP 23 23 30

OCTOBER 25
Penticton
eP 23 49 43

OCTOBER 25
Penticton
eP 04 23 17

OCTOBER 25
Penticton
eP 05 53 47

OCTOBER 25
Penticton
iP 06 54 09 c

OCTOBER 25
U.S.C.G.S.
9.7S, 78.6W
Off coast of Peru
H = 08 54 36.6
h = 110 km
Alert, N.W.T.
iP 09 07 36 d
Banff
eP 09 05 28
Ottawa
eP 09 03 57
Penticton
iP 09 05 32
Resolute
iP 09 07 00

OCTOBER 25
Penticton
eP 10 33 13

OCTOBER 25
Penticton
eP 12 22 04

OCTOBER 25
U.S.C.G.S.
20.3S, 174.1W
Tonga Islands
H = 14 20 20.8
h = 25 km
Penticton
eP 14 32 45

OCTOBER 25
Penticton
eP 18 40 17

OCTOBER 25
H = 20 12 16
Mag 1.4
Penticton
iP_1 20 12 28.7
iS_1 20 12 38.4
D = 80 km

OCTOBER 26
U.S.C.G.S.
3.1S, 147.4E
Bismark Sea
H = 00 38 20.3
h = 14 km
Penticton
eP 00 51 39
Resolute
eP 00 51 48?

OCTOBER 26
Penticton
eP 09 12 34

OCTOBER 26
U.S.C.G.S.
0.4S, 98.6E
Off coast of Sumatra
H = 15 27 02.0
h = 18 km
Mag 6
Penticton
eP' 15 45 55
Resolute
eP? 15 41 15?

OCTOBER 26
Resolute
eP 17 11 49

OCTOBER 26
U.S.C.G.S.
18.0N, 100.0W
Mexico
H = 17 22 18.4
h = 43 km
Alert, N.W.T.
eP 17 33 01
Ottawa
eP 17 29 01
Penticton
eP 17 29 08
Resolute
eP 17 31 57 d?

OCTOBER 26
Ottawa
eP 17 33 22 d
Penticton
eP 17 33 28

OCTOBER 26
Penticton
eP 18 36 25

OCTOBER 26
U.S.C.G.S.
0.3S, 98.5E
Off coast of Sumatra
H = 19 28 37.3
h = 58 km
Penticton
eP' 19 47 27

OCTOBER 26
Penticton
eP 20 25 40

OCTOBER 26
U.S.C.G.S.
6.9N, 73.1W
Colombia
H = 21 56 18.2
h = 167 km
Penticton
eP 22 05 51
Resolute
eP 22 07 05 c?

OCTOBER 26
Penticton
eP 23 43 02

OCTOBER 27
H = 00 55 20
Mag 2.0
Penticton
eP_1 00 55 44.1
eS_1 00 56 02.4
D = 150 km

OCTOBER 27
Penticton
eP 03 43 44

OCTOBER 27
Penticton
eP 12 20 38

OCTOBER 27
H = 19 52 11
Mag 1.4
Penticton
eP_1 19 52 21.7
eS_1 19 52 30.0
D = 68 km

OCTOBER 27
H = 19 55 03
Mag 2.2
Penticton
iP_1 19 55 26.9
iS_1 19 55 44.8
D = 147 km

OCTOBER 27
Penticton
eP 19 58 15

OCTOBER 27
H = 23 37 46
Mag 2.0
Penticton
eP_n 23 38 16.7
iS_n 23 38 40.5
D = 195 km

OCTOBER 27
Resolute
eP 19 58 10?

OCTOBER 28
H = 00 14 34
Mag 2.1
Penticton
iP_n 00 15 04.9
iS_n 00 15 29.2
D = 198 km

OCTOBER 28
H = 00 17 37
Mag 1.8
Penticton
eP_1 00 18 06.9
eS_1 00 18 30.4
D = 193 km

DOMINION OBSERVATORIES

OCTOBER 28
U.S.C.G.S.
17.7S, 178.9W
Fiji Islands
H = 01 34 59.5
h = 605 km
Penticton
eP 01 46 35

OCTOBER 28
U.S.C.G.S.
9.3S, 80.0W
Off coast of Peru
H = 05 30 04.5
h = 33 km
Penticton
eP 05 41 05

OCTOBER 28
U.S.C.G.S.
11.6S, 166.4E
Santa Cruz Islands
H = 06 00 33.7
h = 34 km
Penticton
eP 06 13 23

OCTOBER 28
U.S.C.G.S.
18.9 S, 178.1W
Fiji Islands
H = 06 48 08.8
h = 631 km
Penticton
eP 06 59 46

OCTOBER 28
Penticton
eP 10 14 39

OCTOBER 28
U.S.C.G.S.
33.7N, 48.5E
Iran
H = 10 46 40.2
h = 34 km
Alert, N.W.T.
iP 10 56 41 c
Halifax
eP 10 58 52.5 c
Ottawa
eP 10 59 21
Resolute
eP 10 57 45
Shawinigan Falls
eP 10 59 11

OCTOBER 28
U.S.C.G.S.
38.7S, 73.3W
Near coast of Chile
H = 14 49 13.6
h = 43 km
Halifax
eP 15 01 40.5
Ottawa
eP 15 01 40
Shawinigan Falls
eP 15 01 47

OCTOBER 28
Penticton
eP 18 31 09

OCTOBER 28
Resolute
eP 21 37 09

OCTOBER 28
H = 22 37 18
Mag 1.6
Penticton
iP_1 22 37 37.9
iS_1 22 37 52.9
D = 123 km

OCTOBER 28
Penticton
eP 22 56 48
Resolute
eP 22 54 48
SS? 23 10 07
G? 23 18 32

OCTOBER 29
Penticton
eP 00 09 00

OCTOBER 29
Penticton
eP 08 46 57

OCTOBER 29
U.S.C.G.S.
49.0°N, 128.7°W
West of Vancouver Island
H = 09 12 15.7
h = 16 km
Mag 4.8
Banff
eP 09 14 25 c
Halifax
eP 09 20 23 d
Ottawa
eP 09 19 14
Penticton
eP_n 09 13 43.9 c
Resolute
eP 09 18 20 c
P_cP 09 20 39
S 09 23 18
S_cS 09 27 34
SKP 09 43 09

Shawinigan Falls
eP 09 19 27
Victoria
eP_n 09 13 09.0 c

OCTOBER 29
Penticton
eP 10 03 45

OCTOBER 29
Penticton
eP 10 18 05

OCTOBER 29
Aftershock of Vancouver Island Quake
H = 11 10 22 ?
Penticton
eP 11 11 53
Victoria
eP 11 11 13.2

OCTOBER 29
Aftershock of previous
H = 11 17 00?
Penticton
eP 11 18 24
Victoria
eP 11 17 47.2

OCTOBER 29
U.S.C.G.S.
49.4N, 127.6W
Vancouver Island region
H = 14 00 12.0
h = 56 km
Mag 3.2
Penticton
eP 14 01 33
Victoria
eP 14 00 57.7

OCTOBER 29
U.S.C.G.S.
48.7N, 128.3W
Vancouver Island region
H = 14 47 18.3
h = 73 km
Mag 3.8
Banff
eP 14 49 21
Penticton
eP 14 48 41
Victoria
eP 14 48 06.1

OCTOBER 29
Vancouver Island region
Penticton
eP 18 28 47.1
Victoria
eP 18 28 06.3

OCTOBER 29
Vancouver Island region
Penticton
eP 19 30 06
Victoria
eP 19 29 30.3

OCTOBER 29
Resolute
eP 19 37 37

OCTOBER 29
Penticton
eP 19 59 42

OCTOBER 29
Penticton
eP 22 26 21

OCTOBER 30
U.S.C.G.S.
42.5N, 126.6W
Off coast of Oregon
H = 01 44 53.2
h = 50 km
Banff
eP 01 47 38
Penticton
eP 01 46 53
Resolute
eP 01 51 45
Victoria
eP 01 46 25.3

OCTOBER 30
U.S.C.G.S.
42.3N, 126.7W
Off coast of Oregon
H = 02 16 32.7
h = 36 km
Banff
eP 02 19 19
Halifax
iP 02 24 47 d
Ottawa
eP 02 23 36
Penticton
eP 02 18 34
Resolute
eP 02 23 28
Shawinigan Falls
eP 02 23 51
Victoria
eP 02 18 08.4

OCTOBER 30
U.S.C.G.S.
50.8N, 158.3E
Off coast of Kamchatka
H = 04 47 59.8
h = 32 km
Penticton
eP 04 56 55
Resolute
iP 04 56 23

DOMINION OBSERVATORIES

OCTOBER 30
Novaya Zemlya
Nuclear blast
Alert, N.W.T.
iP 08 38 12 c
S 08 42 09?
L 08 43 40?
Banff
eP 08 43 02.0
Ottawa
eP 08 43 12
Penticton
eP 08 43 16
Resolute
P 08 39 44
Victoria
eP 08 43 22.4 c

OCTOBER 30
Banff
eP 16 03 52
Penticton
eP 16 03 40
Resolute
eP 16 04 08?
i 16 06 19
Victoria
eP 16 03 24

OCTOBER 30
U.S.C.G.S.
28.5S, 178.1W
Kermadec Islands
H = 17 35 03.3
h = 219 km
Penticton
eP 17 47 55
Resolute
eP' 17 53 17?

OCTOBER 30
Penticton
eP 19 13 01

OCTOBER 30
U.S.C.G.S.
28.9N, 141.8E
South of Honshu
Japan
H = 21 15 35.2
h = 31 km
Alert, N.W.T.
iP 21 26 36 c
Banff
eP 21 27 20
Penticton
eP 21 27 09
Resolute
eP 21 26 49
S 21 35 58
Victoria
eP 21 26 58

OCTOBER 30
Penticton
eP 23 06 01
Resolute
eP 23 07 59?

OCTOBER 31
U.S.C.G.S.
51.9N, 176.1E
Rat Islands
H = 01 43 53.3
h = 35 km
Alert, N.W.T.
iP 01 50 54
Halifax
eP 01 55 11.5
Mould Bay
iP 01 50 41
Ottawa
eP 01 54 33
Penticton
eP 01 51 26
Resolute
eP 01 51 34
Victoria
eP 01 51 12

OCTOBER 31
48.4°N, 120.0°W
Washington, U.S.A.
H = 03 34 30.3
Mag 3.0
Penticton
iP 03 34 48.1
iS 03 35 01.7
D = 111 km
Victoria
eP_n 03 35 08.5
D = 258 km

OCTOBER 31
Resolute
eP 06 46 19

OCTOBER 31
U.S.C.G.S.
22.2N, 143.0E
Mariana Island region
H = 08 39 09.2
h = 264 km
Mould Bay
P 08 49 59
Penticton
eP 08 50 43
e 08 51 58
Resolute
eP 08 50 35

OCTOBER 31
Mould Bay
P 13 18 30

OCTOBER 31
Penticton
eP 14 38 21

OCTOBER 31
Canadian Arctic
H = 18 18 08.6
Mag 1.6
Resolute
eP_1 18 18 44
eS_1 18 19 11
D = 221 km

OCTOBER 31
Penticton
eP 19 28 44

OCTOBER 31
Mould Bay
P 20 32 14
Resolute
eP 20 33 06
i 20 35 06

OCTOBER 31
Penticton
iP 21 40 25

OCTOBER 31
H = 23 24 44
Mag 2.2
Penticton
iP_1 23 25 07.6
iS_1 23 25 25.4
D = 146 km

OCTOBER 31
U.S.C.G.S.
43.6N, 146.5E
Off coast of
Hokkaido Japan
H = 23 58 50.7
h = 15 km
Penticton
eP 24 09 00
Resolute
iP 24 08 26

OCTOBER 31
46°06'N, 64°47'W
(Moncton, N.B.)
H = 23 50 -
Mag less than 1.7

NOVEMBER 1
46°55'N±15'
79°15'W±15'
Ontario
H = 03 41 21
Mag 2.9
Ottawa
P_1 03 42 12.4
S_n 03 42 37.5
S_1 03 42 52
D = 125 km

NOVEMBER 1
Penticton
iP 06 06 06 c

NOVEMBER 1
Penticton
iP 10 01 52

NOVEMBER 1
U.S.C.G.S.
18.0S, 178.5E
Fiji Islands region
H = 10 42 21.1
h = 631 km
Penticton
iP 10 53 56

NOVEMBER 1
Resolute
eP 18 31 02

NOVEMBER 1
Canadian Arctic
H = 21 hrs. approx.
Mag 2.4
Alert
P_1 21 hrs.
$S_1 - P_1$ = 28 sec.
D = 230 km

NOVEMBER 1
H = 21 24 36
Mag 2.3
Penticton
iP_n 21 25 14.1
iS_n 21 25 45.2
D = 254 km

NOVEMBER 1
H = 22 15 25
Mag 1.7
Penticton
eP_1 22 15 41.5
eS_1 22 15 53.9
D = 102 km

NOVEMBER 2
Resolute
eP 04 33 21

NOVEMBER 2
U.S.C.G.S.
17.9S, 178.5W
Fiji Islands
H = 05 22 41.4
h = 598 km
Penticton
iP 05 34 18

NOVEMBER 2
Penticton
eP 06 33 45
Resolute
eP 06 32 52

DOMINION OBSERVATORIES

NOVEMBER 2
Mould Bay
P 07 10 54

NOVEMBER 2
Resolute
eP 10 48 03?

NOVEMBER 2
H = 20 55 41
Mag 1.9
Penticton
iP_1 20 56 04.6
iS_1 20 56 22.7
D = 148 km

NOVEMBER 2
H = 22 42 59
Mag 1.6
Penticton
eP_1 22 43 22.2
eS_1 22 43 40.1
D = 147 km

NOVEMBER 2
Mould Bay
P 23 06 01
Resolute
eP? 23 06 44

NOVEMBER 2
U.S.C.G.S.
17.2N, 62.7W
Leeward Islands
H = 23 03 55.6
h = 29 km
Mould Bay
iP 23 14 39
Ottawa
eP 23 10 06
Shawinigan Falls
eP 23 10 09

NOVEMBER 2
U.S.C.G.S.
54.5N, 162.3W
Alaska
H = 23 35 50.7
h = 40 km
Mould Bay
P 23 41 33
Penticton
eP 23 41 30
Resolute
eP 23 42 23

NOVEMBER 3
Canadian Arctic
H = 00 27 07.1
Mag 2.4
Alert, N.W.T.
iP_1 00 27 44
iS_1 00 28 12
D = 230 km

NOVEMBER 3
Mould Bay
P 05 22 24
i 05 23 00
Resolute
eP? 05 23 25
Penticton
eP 18 47 16

NOVEMBER 3
Resolute
eP 20 47 16

NOVEMBER 3
Mould Bay
iP 22 12 19
Penticton
eP 22 12 10

NOVEMBER 4
U.S.C.G.S.
29.9N, 131.8E
Ryukyu Islands
H = 02 08 50.6
h = 98 km
Resolute
iP 02 20 05

NOVEMBER 4
U.S.C.G.S.
2.9S, 137.2E
Near coast of
New Guinea
H = 03 04 21.2
h = 51 km
Shawinigan Falls
eP' 03 23 27

NOVEMBER 4
U.S.C.G.S.
50.0N, 155.5E
Kurile Islands
H = 03 38 30.1
h = 32 km
Alert, N.W.T.
iP 03 46 58 c
Penticton
iP 03 47 39
Resolute
eP 03 47 05
Shawinigan Falls
eP 03 50 13

NOVEMBER 4
Canadian Arctic
H = 10 44 20.9
Mag 1.3
Resolute
iP_1 10 44 34
iS_1 10 44 44
D = 82 km

SEISMOLOGICAL BULLETIN - 1961

NOVEMBER 4
U.S.C.G.S.
52.4N, 175.4W
Andreanof Islands
H = 14 34 36.5
h = 75 km
Penticton
iP 14 41 34

NOVEMBER 4
Penticton
eP 17 10 58

NOVEMBER 4
Alert, N.W.T.
eP 18 24 40
Ottawa
eP 18 26 45
Penticton
eP 18 23 10
Resolute
eP 18 24 03
i 18 41 07
Shawinigan Falls
eP 18 26 50

NOVEMBER 4
Mould Bay
P 21 30 41

NOVEMBER 4
H = 23 22 48
Mag 2.4
Penticton
iP_n 23 23 20.2
iS_n 23 23 45.3
D = 206 km

NOVEMBER 4
Penticton
eP 23 49 37

NOVEMBER 5
U.S.C.G.S.
36.6N, 140.9E
Honshu Japan
H = 03 15 44.6
h = 60 km
Mould Bay
P 03 25 30
Resolute
eP 03 26 10

NOVEMBER 5
U.S.C.G.S.
44.2N, 148.4E
Kurile Islands
H = 03 41 40.0
h = 18 km
Resolute
eP 03 51 08 c

NOVEMBER 5
Penticton
eP 04 54 06

NOVEMBER 5
H = 07 52 22
Mag 1.8
Victoria
eP_1 07 52 30.4
eS_1 07 52 36.8
D = 52 km

NOVEMBER 5
U.S.C.G.S.
28.7N, 55.1E
Iran
H = 08 36 35.4
h = 92 km
Halifax
ePP 08 52 54
Mould Bay
P 08 48 13
e 08 51 53

NOVEMBER 5
Banff
eP 09 54 48.9
eS 09 56 08.9
Penticton
eP 09 54 53

NOVEMBER 5
U.S.C.G.S.
45.7N, 147.9E
Kurile Islands
H = 10 36 39.5
h = 142 km
Ottawa
eP 10 48 45
Penticton
iP 10 46 26 c
Resolute
eP 10 45 44

NOVEMBER 5
Penticton
eP 12 25 21

NOVEMBER 5
Mould Bay
P 12 57 02

NOVEMBER 5
Penticton
eP 19 39 16

NOVEMBER 5
U.S.C.G.S.
49.4S, 163.3E
Northwest of
New Zealand
H = 23 56 25.4
h = 35 km
Alert, N.W.T.
iP' 24 15 55

NOVEMBER 6
Penticton
eP 04 49 47

NOVEMBER 6
U.S.C.G.S.
13.3S, 76.7W
Near coast of
Peru
H = 05 13 22.5
h = 133 km
Mould Bay
P 05 26 25
Penticton
eP 05 24 41
Resolute
eP? 05 26 04
Shawinigan Falls
eP 05 23 18

NOVEMBER 6
U.S.C.G.S.
13.3S, 166.0E
Santa Cruz Islands
region
H = 05 28 39.3
h = 210 km
Penticton
eP 05 41 17

NOVEMBER 6
Resolute
i 05 56 13
i 06 02 10
i 06 11 15

NOVEMBER 6
Resolute
eP? 06 21 50

NOVEMBER 6
U.S.C.G.S.
26.7N, 91.9E
Bhutan
H = 07 59 06.2
h = 67 km
Mould Bay
P 08 10 46
Resolute
eP 08 11 04

NOVEMBER 6
U.S.C.G.S.
36.5N, 73.3E
Hindu Kush
H = 12 29 00.5
h = 114 km
Mould Bay
iP 12 39 44
Resolute
eP? 12 39 56

NOVEMBER 6
U.S.C.G.S.
17.5N, 145.3E
Mariana Islands
H = 13 34 54.8
h = 251 km
Penticton
eP 13 46 42
Resolute
eP 13 46 43

NOVEMBER 6
H = 19 49 04
Mag 2.3
Penticton
iP_1 19 49 29.9
iS_1 19 49 49.4
D = 150 km
Victoria
eP_n 19 49 47.2
D = 298 km

NOVEMBER 6
H = 22 21 27
Mag 1.7
Banff
iP_1 22 21 32.2
iS_1 22 21 36.2
D = 33 km

NOVEMBER 7
U.S.C.G.S.
21.4S, 179.1W
Fiji Islands region
H = 00 40 05.9
h = 653 km
Penticton
iP 00 51 53

NOVEMBER 7
U.S.C.G.S.
11.6N, 126.1E
Philippine Islands
H = 01 12 55.7
h = 47 km
Mould Bay
P 01 25 25
Resolute
eP 01 25 51?

NOVEMBER 7
U.S.C.G.S.
45.7N, 122.1W
Oregon-Washington
border, U.S.A.
H = 01 29 10.6
h = 60 km
Banff
eP 01 30 57
Penticton
iP 01 30 10 c
Victoria
iP 01 29 51.1 d

NOVEMBER 7
Mould Bay
P 03 35 41
i 03 35 45

NOVEMBER 7
U.S.C.G.S.
48.2N, 153.0E
Kurile Islands
H = 05 52 20.8
h = 25 km
Resolute
eP 06 01 09 c

NOVEMBER 7
Mould Bay
P 08 51 22

NOVEMBER 7
Mould Bay
P 10 57 11
Resolute
eP 10 57 02?

NOVEMBER 7
Mould Bay
P 14 46 07

NOVEMBER 7
Mould Bay
P 17 15 37

NOVEMBER 7
Mould Bay
P 18 30 33

NOVEMBER 7
Penticton
eP 21 31 24
Victoria
eP 21 31 02.2

NOVEMBER 7
Penticton
iP 23 06 27

NOVEMBER 8
H = 00 38 07
Mag 2.0
Penticton
iP_1 00 38 32.5
iS_1 00 38 51.6
D = 156 km

NOVEMBER 8
Mould Bay
P 03 26 24

NOVEMBER 8
Resolute
eP 03 45 41

NOVEMBER 8
U.S.C.G.S.
15.6N, 95.8W
Near coast of
Mexico
H = 04 54 43.8
h = 45 km
Mould Bay
P 05 05 05
Penticton
iP 05 02 08

NOVEMBER 8
Mould Bay
P 14 22 38

NOVEMBER 8
Mould Bay
iP 15 47 04 c
i 15 47 25

NOVEMBER 8
Mould Bay
P 15 58 29

NOVEMBER 8
H = 19 05 12
Mag 1.6
Penticton
iP_1 19 05 25.3
iS_1 19 05 35.4
D = 82 km

NOVEMBER 8
Mould Bay
P 19 12 32

NOVEMBER 8
Mould Bay
P 19 58 52

NOVEMBER 8
H = 20 58 35
Mag 2.5
Penticton
iP_n 20 59 08.2
iS_n 20 59 34.6
D = 216 km

NOVEMBER 8
Penticton
eP 21 28 56

NOVEMBER 9
Penticton
eP 01 27 07

NOVEMBER 9
Mould Bay
P 01 33 55

DOMINION OBSERVATORIES

NOVEMBER 9
U.S.C.G.S.
22.9S, 67.9W
Chile-Argentina border
H = 04 19 42.0
h = 84 km
Mag 6 1/4
Banff
iP 04 32 07 d
Halifax
eP 04 30 31.5 d
Ottawa
eP 04 30 36 d
Penticton
iP 04 32 11 d
Shawinigan Falls
eP 04 30 43 d
Victoria
eP 04 32 17 d

NOVEMBER 9
Mould Bay
P 05 37 43

NOVEMBER 9
Mould Bay
P 06 02 13

NOVEMBER 9
Resolute
eP? 06 16 11

NOVEMBER 9
Mould Bay
P 08 25 02

NOVEMBER 9
Mould Bay
P 09 22 34

NOVEMBER 9
Mould Bay
P 09 53 52

NOVEMBER 9
Mould Bay
P 10 35 10

NOVEMBER 9
Mould Bay
iP 11 50 47 c

NOVEMBER 9
Mould Bay
P 12 05 48

NOVEMBER 9
Penticton
eP 12 12 44

NOVEMBER 9
Mould Bay
iP 12 45 35

NOVEMBER 9
Mould Bay
P 12 50 54

NOVEMBER 9
Resolute
eP? 12 53 04

NOVEMBER 9
Resolute
eP 13 45 42

NOVEMBER 9
Mould Bay
P 13 51 52

NOVEMBER 9
Mould Bay
P 14 14 02

NOVEMBER 9
Penticton
eP 16 08 37

NOVEMBER 9
Canadian Arctic
H = 16 34 19
Mag 2.4
Resolute
iP_1 16 34 33.5
iS_1 16 34 44.5
D = 92 km

NOVEMBER 9
H = 18 22 17
Mag 2.2
Penticton
iP_1 18 22 42.1
iS_1 18 23 01.2
D = 156 km

NOVEMBER 9
Penticton
eP 19 33 32

NOVEMBER 9
Mould Bay
P 21 10 38

NOVEMBER 9
H = 22 28 50
Mag 2.1
Penticton
iP_1 22 29 16.1
iS_1 22 29 35.9
D = 162 km

NOVEMBER 9
Mould Bay
P 23 16 15

NOVEMBER 9
U.S.C.G.S.
15.8S, 174.9W
Tonga Islands region
H = 23 06 55.5
h = 289 km
Penticton
iP 23 18 40

NOVEMBER 10
Mould Bay
P 00 37 49
i 00 37 54

NOVEMBER 10
Mould Bay
P 00 58 42

NOVEMBER 10
U.S.C.G.S.
14.3S, 71.9W
Southern Peru
H = 02 07 34.7
h = 68 km
Ottawa
eP 02 17 32 d
Penticton
eP 02 19 12
Resolute
eP 02 20 28
Shawinigan Falls
eP 02 17 40

NOVEMBER 10
Canadian Arctic
H = 05 32 24
Mag 3.4
Mould Bay
P 05 34 45

NOVEMBER 10
Resolute
P_n 05 32 24.0
S_n? 05 33 07
S_1 05 33 31.0
D = 450 km

NOVEMBER 10
Mould Bay
P 05 44 31

NOVEMBER 10
Mould Bay
iP 06 05 06 c

NOVEMBER 10
Mould Bay
P 07 17 18

NOVEMBER 10
Penticton
eP 08 29 31

NOVEMBER 10
Mould Bay
P 09 08 33

NOVEMBER 10
Mould Bay
P 11 45 00

NOVEMBER 10
Mould Bay
iP 12 01 43 c

NOVEMBER 10
Resolute
eP 13 30 23

NOVEMBER 10
Mould Bay
P 14 30 44

NOVEMBER 10
U.S.C.G.S.
17.5S, 178.8W
Fiji Islands
H = 18 00 49.6
h = 586 km
Banff
iP 18 12 42 c
Penticton
iP 18 12 27 c

NOVEMBER 10
Canadian Arctic
H = 19 23 33.5
h = 27 km
Mag 3.9
Mould Bay
iP 19 24 19
i 19 24 26
Resolute
P_n 19 24 25
P_1 19 24 35
S_n 19 25 02
S_1 19 25 21
D = 382 km

NOVEMBER 10
H = 22 32 45
Mag 2.5
Penticton
iP_1 22 33 15.1
iS_1 22 33 38.8
D = 194 km

NOVEMBER 10
62.5°N±1.0°,
124.4°W±1.5°
Northwest Territories
H = 22 43 29
Mag 5.5
Alert, N.W.T.
eL 22 57.5
Mould Bay
P_n 22 46 41
S_n 22 49 11
D = 1522 km
Ottawa
eL_g 23 00 04
D = 3520 km
Penticton
P_n 22 46 32
S_n 22 48 58
L_g 22 50 18
D = 1447 km
Resolute
P_n 22 47 08
S_n 22 49 55
L_g 22 51 52

NOVEMBER 10
Alert, N.W.T.
iP 22 48 59
Mould Bay
iP 22 49 11
Penticton
eP 22 53 29

NOVEMBER 10
Mould Bay
P 23 24 57

NOVEMBER 11
H = 01 59 04
Mag 1.7
Penticton
iP_1 01 59 14.3
iS_1 01 59 22.1
D = 64 km

NOVEMBER 11
Canadian Arctic
H = 02 11 49.5
h = 27 km
Mag 3.9
Mould Bay
iP 02 12 34
i 02 12 42
i 02 13 24
Resolute
P_n 02 12 41
P_1 02 12 51
S_n 02 13 18
S_1 02 13 37
D = 382 km

NOVEMBER 11
U.S.C.G.S.
13.2N, 91.0W
Off coast of
Guatemala
H = 12 27 03.8
h = 94 km
Mould Bay
P 12 37 34
Penticton
iP 12 34 57
Resolute
eP 12 37 12 c
i 12 50 38

NOVEMBER 11
H = 15 22 28
Mag 2.3
Penticton
iP_1 15 22 59.1
iS_1 15 23 23.4
D = 199 km

NOVEMBER 11
Mould Bay
P 16 18 30

NOVEMBER 11
Mould Bay
P 16 30 36

NOVEMBER 11
Mould Bay
P 16 50 13

NOVEMBER 11
Penticton
eP 20 01 44

NOVEMBER 11
U.S.C.G.S.
8.2S, 75.0W
Peru
H = 21 46 59.7
h = 119 km
Mould Bay
P 21 59 37
Penticton
eP 21 57 57

NOVEMBER 12
U.S.C.G.S.
0.8N, 29.5E
Congo region
H = 02 15 16.7
h = 39 km
Halifax
eP 02 28 13
Penticton
eP' 02 33 57

NOVEMBER 12
Resolute
i 03 15 32

NOVEMBER 12
Mould Bay
P 06 04 04

NOVEMBER 12
U.S.C.G.S.
16.9S, 66.9W
Mascarene Islands
region
H = 08 21 06.8
h = 34 km
Penticton
eP' 08 40 49

NOVEMBER 12
Mould Bay
P 09 45 06

NOVEMBER 12
U.S.C.G.S.
15.6S, 175.9W
Fiji Islands region
H = 14 11 58.8
h = 219 km
Penticton
eP 14 23 52

NOVEMBER 12
Southern Vancouver
Island
H = 17 51 10
Mag 2.1
Alberni
iP_1 17 51 18.1
iS_1 17 51 24.3
D = 51 km
Victoria
eP_1 17 51 28.0
eS_1 17 51 42.7
D = 120 km

NOVEMBER 12
U.S.C.G.S.
23.2S, 180.0
South of Fiji Islands
H = 18 12 22.0
h = 556 km
Penticton
eP 18 24 28

NOVEMBER 12
Penticton
eP 21 51 43

NOVEMBER 13
Mould Bay
P 00 37 05

NOVEMBER 13
Resolute
eP 01 13 20

NOVEMBER 13
Penticton
eP 02 41 58

NOVEMBER 13
Mould Bay
P 03 03 35

NOVEMBER 13
Penticton
eP 08 22 16

NOVEMBER 13
U.S.C.G.S.
35.7N, 70.4E
Hindu Kush
H = 09 12 14.6
h = 157 km
Mould Bay
P 09 23 00

NOVEMBER 13
Mould Bay
P 09 39 51

NOVEMBER 13
Penticton
eP 10 50 31

NOVEMBER 13
Penticton
eP 11 08 03

NOVEMBER 13
Mould Bay
P 12 38 07

NOVEMBER 13
Alert, N.W.T.
iP 14 15 55
Resolute
eP 14 17 33

NOVEMBER 13
U.S.C.G.S.
46.8N, 153.9E
Kurile Islands
H = 19 38 15.5
h = 39 km
Alert, N.W.T.
iP 19 47 07
Mould Bay
P 19 46 26
Penticton
eP 19 47 47
Resolute
eP 19 47 15

NOVEMBER 13
Resolute
eP 20 35 31

NOVEMBER 13
H = 23 53 21
Mag 2.5
Penticton
iP_1 23 53 50.4
iS_1 23 54 13.5
D = 189 km

NOVEMBER 14
Mould Bay
P 01 00 48

NOVEMBER 14
Mould Bay
P 01 06 37

NOVEMBER 14
Mould Bay
P 01 17 28

NOVEMBER 14
Mould Bay
P 02 02 43

NOVEMBER 14
Mould Bay
P 02 26 19

NOVEMBER 14
Mould Bay
P 02 34 23

NOVEMBER 14
Mould Bay
P 02 51 46

NOVEMBER 14
Mould Bay
P 04 44 13

NOVEMBER 14
U.S.C.G.S.
7.3N, 82.4W
Off coast of Panama
H = 04 42 26.5
h = 29 km
Mag 6 1/4
Alberni
eP 04 52 00

Alert, N.W.T.
eP 04 54 11
Banff
eP 04 51 32
Halifax
eP 04 50 08
Mould Bay
iP 04 53 49 c
Resolute
eP 04 53 23 c
Shawinigan Falls
eP 04 50 02
Victoria
eP 04 52 50

NOVEMBER 14
U.S.C.G.S.
36.1N, 139.0E
Honshu Japan
H = 10 02 32.7
h = 167 km
Alert, N.W.T.
iP 10 12 32 c
Mould Bay
iP 10 12 10 c
Resolute
iP 10 12 50 c

NOVEMBER 14
U.S.C.G.S.
47.0N, 153.7E
Kurile Islands
H = 10 28 33.4
h = 26 km
Alert, N.W.T.
P 10 37 25
Mould Bay
P 10 36 45
Resolute
eP 10 37 33

NOVEMBER 14
Mould Bay
P 12 13 57

NOVEMBER 14
U.S.C.G.S.
33.9S, 179.6W
Off coast of
New Zealand
H = 12 38 51.9
h = 51 km
Mould Bay
P' 12 57 29
Resolute
eP' 12 57 39

NOVEMBER 14
Mould Bay
P 13 53 50

NOVEMBER 14
U.S.C.G.S.
5.7S, 104.3E
Near coast of Sumatra
H = 17 14 00.1
h = 16 km
Resolute
eP' 17 32 33

NOVEMBER 14
Mould Bay
P 18 04 30
Resolute
eP 18 05 08

NOVEMBER 14
H = 21 31 02
Mag 2.0
Penticton
eP_n 21 31 29.4
eS_n 21 31 50.5
D = 173 km

NOVEMBER 14
U.S.C.G.S.
44.2N, 147.6E
Kurile Islands
H = 22 26 47.9
h = 25 km
Resolute
eP 22 36 19

NOVEMBER 14
H = 23 05 54
Mag 2.4
Penticton
eP_1 23 06 20.2
eS_1 23 06 40.0
D = 162 km

NOVEMBER 14
H = 23 17 12
Mag 2.5
Penticton
iP_n 23 17 54.5
iS_n 23 18 30.0
D = 290 km

NOVEMBER 14
Resolute
eP 23 21 20

NOVEMBER 14
H = 23 25 31
Mag 1.8
Penticton
eP_1 23 25 56.0
eS_1 23 26 15.2
D = 157 km

NOVEMBER 14
Resolute
eP 23 29 51

NOVEMBER 15
Mould Bay
P 04 14 05

NOVEMBER 15
U.S.C.G.S.
4.1S, 105.0E
Sumatra
H = 04 22 51.9
h = 126 km
Penticton
iP' 04 41 44

NOVEMBER 15
U.S.C.G.S.
34.9N, 119.1W
California
H = 05 38 54.3
h = 26 km
Mag 4.9
Alberni
eP 05 42 26
Banff
eP 05 42 48
Mould Bay
P 05 46 42
Penticton
eP 05 42 22
Shawinigan Falls
eP 05 46 01
Victoria
eP 05 42 27

NOVEMBER 15
47.9°N, 123.2°W
Washington, U.S.A.
H = 06 47 09
Mag 2.2
Penticton
eP_n 06 47 45.9
D = 310 km
Victoria
eP_1 06 47 20.8
eS_1 06 47 30.1
D = 77 km

NOVEMBER 15
U.S.C.G.S.
43.1N, 145.1E
Hokkaido Japan
H = 07 17 12.4
h = 43 km
Alberni
iP 07 27 10
Alert, N.W.T.
iP 07 26 34 c
S 07 34 03
Banff
iP 07 27 37
Penticton
iP 07 27 29
Resolute
iP 07 26 48 c
Shawinigan Falls
eP 07 29 43 c
Victoria
eP 07 27 18

NOVEMBER 15
Penticton
eP 07 56 33

NOVEMBER 15
U.S.C.G.S.
15.3S, 173.3W
Samoa Islands region
H = 13 41 37.8
h = 34 km
Penticton
iP 13 53 44

NOVEMBER 15
48°52'N, 121°53'W
Washington, U.S.A.
H = 17 27 07
Mag 2.2
Penticton
iP_n 17 27 34.3
D = 173 km
Victoria
eP_1 17 27 25.9
eS_1 17 27 40.6
D = 120 km

NOVEMBER 15
U.S.C.G.S.
21.1S, 175.8W
Tonga Islands
H = 19 26 51.5
h = 25 km
Penticton
eP 19 39 29

NOVEMBER 15
Resolute
eP? 21 25 25

NOVEMBER 15
U.S.C.G.S.
56.6S, 25.7W
Sandwich Islands
H = 22 01 43.8
h = 41 km
Penticton
eP' 22 20 51
Resolute
eP' 22 21 05?

NOVEMBER 16
Mould Bay
P 02 33 12

NOVEMBER 16
U.S.C.G.S.
18.6N, 68.9W
Near coast of
Dominican Republic
H = 08 19 54.3
h = 147 km
Alberni
eP 08 29 04
Alert, N.W.T.
eP 08 30 13 d
Banff
eP 08 28 27
Halifax
iP 08 25 24?c
e 08 30 30?

Mould Bay
P 08 30 08
Penticton
eP 08 28 39
Resolute
eP 08 29 32
i 08 30 06
Shawinigan Falls
eP 08 25 35 c
Victoria
eP 08 28 55

NOVEMBER 16
Mould Bay
P 13 11 07

NOVEMBER 16
U.S.C.G.S.
20.2S, 172.9W
Loyalty Islands region
H = 16 03 54.8
h = 32 km
Penticton
eP 16 16 50

NOVEMBER 16
H = 22 53 17
Mag 1.5
Penticton
eP_1 22 53 32.8
eS_1 22 53 45.1

NOVEMBER 17
U.S.C.G.S.
17.7S, 178.6W
Fiji Islands
H = 08 13 49.8
h = 598 km
Alberni
eP 08 25 10
Penticton
iP 08 25 27 c

NOVEMBER 17
Penticton
eP 09 35 25
Resolute
eP 09 35 32?

NOVEMBER 17
Penticton
eP 11 19 39

NOVEMBER 17
Alberni
eP 11 46 11
Penticton
eP 11 47 02

NOVEMBER 17
Penticton
eP 12 46 11

NOVEMBER 17
Penticton
eP 13 12 51

NOVEMBER 17
Mould Bay
P 14 46 56

NOVEMBER 17
U.S.C.G.S.
52.4N, 170.7W
Fox Islands
H = 14 49 03.0
Alert, N.W.T.
iP 14 56 43 d
Halifax
iP 14 59 42 d
Mould Bay
P 14 55 19
Penticton
iP 14 55 29
i 14 58 19

Resolute
eP 14 56 09?
i 14 58 31

NOVEMBER 17
Penticton
eP 15 34 00

NOVEMBER 17
U.S.C.G.S.
19.6S, 175.5W
Tonga Islands region
H = 19 03 55.4
h = 200 km
Penticton
iP 19 16 10

NOVEMBER 17
Penticton
eP 20 06 22

NOVEMBER 17
Penticton
iP 20 08 45

NOVEMBER 17
Penticton
iP 23 42 47

NOVEMBER 17
Penticton
eP 23 51 52

NOVEMBER 18
U.S.C.G.S.
32.6N, 73.6E
West Pakistan
H = 01 43 07.7
h = 56 km
Mould Bay
P 01 54 22

NOVEMBER 18
Mould Bay
P 02 03 17

NOVEMBER 18
U.S.C.G.S.
35.4N, 117.8W
California
H = 03 18 35.5
h = 23 km
Mag 4
Mould Bay
P 03 28 17

NOVEMBER 18
Mould Bay
P 04 16 00

NOVEMBER 18
Penticton
eP 07 38 21

NOVEMBER 18
U.S.C.G.S.
56.2S, 25.2W
Sandwich Islands
H = 07 27 40.3
h = 25 km
Mould Bay
iP' 07 47 16 c
Resolute
eP' 07 47 07

NOVEMBER 18
U.S.C.G.S.
29.9N, 138.9E
South of Honshu,
Japan
H = 10 09 10.4
h = 339 km
Mould Bay
P 10 19 13

NOVEMBER 18
U.S.C.G.S.
8.8S, 74.7W
Peru
H = 10 34 05.8
h = 50 km
Mould Bay
P 10 46 55
e 10 47 33
Penticton
eP 10 45 14
Resolute
eP 10 46 34 c
Shawinigan Falls
eP 10 43 35

NOVEMBER 18
U.S.C.G.S.
27.0S, 176.3W
Kermadec Islands
region
H = 11 16 56.8
h = 61 km
Alberni
eP 11 29 47
Penticton
eP 11 29 00
Resolute
iP' 11 35 35

NOVEMBER 18
Mould Bay
P 16 22 57

NOVEMBER 18
Penticton
eP 18 27 15

NOVEMBER 18
Resolute
eP? 18 55 30?

DOMINION OBSERVATORIES

NOVEMBER 18
Mould Bay
P 21 28 44

NOVEMBER 18
U.S.C.G.S.
23.7N, 121.8E
Near coast of
Formosa
H = 22 09 53.4
h = 60 km
Alberni
eP 22 22 32
Alert, N.W.T.
eP 22 21 22
Banff
eP 22 22 50
Mould Bay
P 22 21 21
Penticton
iP 22 22 45 c
Resolute
eP 22 21 52 c
Victoria
eP 22 22 38

NOVEMBER 18
H = 23 11 25
Mag 2.5
Alberni
iP_1 23 11 50.1
iS_1 23 12 07.7
D = 144 km
Penticton
eP_n 23 12 25.7
D = 426 km
Victoria
iP_1 23 11 32.4
iS_1 23 11 36.0
D = 36 km

NOVEMBER 19
U.S.C.G.S.
51.6N, 178.5W
Andreanof Islands
H = 00 35 14.1
h = 68 km
Alberni
eP 00 41 50
Banff
eP 00 42 29
Penticton
iP 00 42 17 c
Resolute
i 00 44 47

NOVEMBER 19
Resolute
eP 03 48 10 c

NOVEMBER 19
U.S.C.G.S.
4.3S, 101.7W
West of Galapagos
Islands
H = 08 05 07.4
h = 25 km
Penticton
eP 08 14 42

NOVEMBER 19
U.S.C.G.S.
7.0S, 154.8E
Solomon Islands
H = 10 12 51.2
h = 85 km
Mould Bay
P 10 26 10

NOVEMBER 19
Mould Bay
P 12 02 18

NOVEMBER 19
Penticton
eP 16 29 16

NOVEMBER 19
Mould Bay
P 19 44 02

NOVEMBER 19
Penticton
iP 22 42 26 d

NOVEMBER 19
U.S.C.G.S.
0.8N, 124.3E
Northern Celebes
H = 23 21 55.5
h = 157 km
Alberni
eP 23 35 37
Alert, N.W.T.
P 23 35 09
Halifax
i 23 44 07.5 d
Mould Bay
iP 23 35 03 d
Penticton
iP 23 35 52 d
Resolute
eP 23 35 29 d
Shawinigan Falls
iP' 23 40 49 c
e 23 43 54

NOVEMBER 20
Penticton
iP 02 12 19

NOVEMBER 20
U.S.C.G.S.
50.9N, 92.5E
Mongolia-Siberia
border
H = 04 03 55.7
h = 53 km
Alert, N.W.T.
P 04 12 18
Banff
eP 04 15 37
Mould Bay
P 04 12 58
Penticton
iP 04 15 42
Resolute
eP 04 13 21?

NOVEMBER 20
U.S.C.G.S.
37.3N, 141.3E
Near coast of
Honshu Japan
H = 04 32 36.9
h = 83 km
Alert, N.W.T.
P 04 42 35
Mould Bay
eP 04 42 10 c
Penticton
eP 04 43 21
Resolute
eP 04 42 51

NOVEMBER 20
U.S.C.G.S.
54.7N, 161.8E
Near coast of
Kamchatka
H = 06 40 20.9
h = 71 km
Alberni
eP 06 48 21
Banff
eP 06 48 47
Mould Bay
P 06 47 09
Penticton
iP 06 48 42 d
Resolute
eP 06 48 02

NOVEMBER 20
Mould Bay
P 07 59 01

NOVEMBER 20
U.S.C.G.S.
33.7N, 117.9W
California
H = 08 53 35.1
h = 17 km
Mag 4
Penticton
eP 08 57 23

NOVEMBER 20
U.S.C.G.S.
21.8S, 169.9E
Loyalty Islands
region
H = 11 44 19.4
h = 33 km
Halifax
e 12 06 53.5
Penticton
eP 11 57 41
Shawinigan Falls
eP' 12 03 20

NOVEMBER 20
Mould Bay
P 12 21 25

NOVEMBER 20
Mould Bay
P 13 38 30

NOVEMBER 20
Penticton
iP 14 19 19 d

NOVEMBER 20
Penticton
eP 14 53 57

NOVEMBER 20
Mould Bay
P 17 18 53

NOVEMBER 20
Mould Bay
P 17 31 05

NOVEMBER 20
U.S.C.G.S.
31.3N, 40.9W
North Atlantic Ocean
H = 17 58 17.5
h = 44 km
Alberni
eP 18 08 50
Alert, N.W.T.
iP 18 07 24 d
Banff
eP 18 08 01
Halifax
iP 18 03 16 d
Mould Bay
P 18 08 04
Penticton
eP 18 08 22
Resolute
eP 18 07 18
i 18 08 41
PP 18 09 20
S 18 14 47
SS 18 18 22
L 18 29 56
Shawinigan Falls
eP 18 04 16
Victoria
eP 18 08 41

DOMINION OBSERVATORIES

NOVEMBER 20
H = 19 45 10
Mag 2.0
Penticton
eP_1 19 45 35.8
eS_1 19 45 55.4
D = 160 km

NOVEMBER 20
Mould Bay
P 19 47 29

NOVEMBER 20
Mould Bay
P 20 11 05

NOVEMBER 20
Penticton
eP 22 32 54

NOVEMBER 20
U.S.C.G.S.
28.3N, 138.9E
South of Honshu
Japan
H = 23 07 47.5
h = 525 km
Alert, N.W.T.
iP 23 18 01 c
Mould Bay
iP 23 17 39
Penticton
iP 23 18 41 d
Resolute
iP 23 18 16 c

NOVEMBER 20
Penticton
iP 23 41 13

NOVEMBER 20
Penticton
eP 23 50 53

NOVEMBER 21
U.S.C.G.S.
43.8N, 145.3E
Japan
H = 01 16 50.2
h = 165 km
Penticton
eP 01 26 49
Resolute
eP 01 26 07

NOVEMBER 21
H = 01 49 13
Mag 2.1
Alberni
iP_1 01 49 21.3
iS_1 01 49 27.8
D = 53 km

NOVEMBER 21
U.S.C.G.S.
39.7N, 69.3E
Tadzhik, S.S.R.
H = 05 00 25.9
h = 249 km
Mould Bay
iP 05 10 36 c
Penticton
iP 05 13 07
Resolute
eP 05 10 44

NOVEMBER 21
Mould Bay
P 05 45 31

NOVEMBER 21
U.S.C.G.S.
10.6N, 62.8W
Near coast of
Venezuela
H = 06 38 51.1
h = 70 km
Mould Bay
P 06 50 12

NOVEMBER 21
Penticton
eP 07 25 50

NOVEMBER 21
U.S.C.G.S.
0.9N, 122.5E
Northern Celebes
H = 11 06 38.1
h = 85 km
Mould Bay
P 11 19 55

NOVEMBER 21
Resolute
eP 13 48 19

NOVEMBER 21
Penticton
eP 14 17 23

NOVEMBER 21
Resolute
eP 15 03 32

NOVEMBER 21
U.S.C.G.S.
62.6N, 156.5W
Southern Alaska
H = 20 20 05.4
h = 154 km
Mould Bay
P 20 24 15
Penticton
eP 20 24 57
Resolute
eP 20 25 08

NOVEMBER 21
H = 21 25 30
Mag 2.5
Penticton
iP_n 21 26 10.7
iS_n 21 26 44.3
D = 275 km

NOVEMBER 21
Penticton
eP 23 03 53

NOVEMBER 22
Penticton
eP 03 56 06

NOVEMBER 22
U.S.C.G.S.
51.4N, 174.7W
Andreanof Islands
H = 10 18 21.8
h = 25 km
Mould Bay
P 10 24 48
Penticton
iP 10 25 14

NOVEMBER 22
Penticton
eP 12 08 02
Resolute
eP 12 07 23

NOVEMBER 22
U.S.C.G.S.
15.4N, 91.7W
Mexico-Guatemala
border
H = 12 30 01.9
h = 84 km
Mould Bay
P 12 40 18

NOVEMBER 22
Penticton
iP 12 37 39

NOVEMBER 22
U.S.C.G.S.
2.7N, 84.8W
South of Panama
H = 13 01 40.1
h = 37 km
Alert, N.W.T.
P 13 13 49
Mould Bay
P 13 13 26
Penticton
eP 13 11 13
Shawinigan Falls
eP 13 09 52

NOVEMBER 22
Mould Bay
P 14 38 08

NOVEMBER 22
Mould Bay
P 15 27 30
Penticton
eP 15 27 31

NOVEMBER 22
Mould Bay
P 16 34 05

NOVEMBER 22
H = 16 40 12
Mag 2.1
Penticton
iP_1 16 40 36.0
iS_1 16 40 53.9
D = 147 km

NOVEMBER 22
Mould Bay
P 18 04 00

NOVEMBER 22
80.0°N±0.4°,
111.7°W±1.5°
Northwest Territories
H = 19 56 21
h = 10 km
Mag 4.0
Alert, N.W.T.
P_n 19 58 18
S_n 19 59 41
D = 900 km
Mould Bay
P_n 19 57 22
D = 450 km
Resolute
P_n 19 57 55
S_n 19 59 03
D = 715 km

NOVEMBER 22
Mould Bay
iP 22 01 57 c
Resolute
eP? 22 02 31

NOVEMBER 23
Mould Bay
P 06 27 00

NOVEMBER 23
Penticton
eP 10 04 14

NOVEMBER 23
Penticton
eP 10 29 04

NOVEMBER 23
U.S.C.G.S.
11.1N, 84.7W
Costa Rica-Nicaragua border
H = 10 36 11.0
h = 234 km
Mould Bay
eP 10 46 45 c
Penticton
eP 10 44 27
Resolute
eP 10 46 19
Shawinigan Falls
eP 10 42 59

NOVEMBER 23
U.S.C.G.S.
5.5S, 80.5W
Near coast of Peru
H = 11 17 25.5
h = 60 km
Mould Bay
P 11 29 56
Penticton
eP 11 27 56

NOVEMBER 23
Penticton
eP 12 12 57

NOVEMBER 23
U.S.C.G.S.
18.5S, 175.1W
Tonga Islands region
H = 15 26 58.3
h = 168 km
Penticton
eP 15 39 12

NOVEMBER 23
Penticton
eP 16 53 02
Shawinigan Falls
eP 16 52 37

NOVEMBER 23
U.S.C.G.S.
23.4S, 176.2W
Tonga Islands
H = 16 58 50.1
h = 60 km
Penticton
eP 17 11 37

NOVEMBER 23
H = 19 53 29
Mag 2.2
Penticton
iP_1 19 53 54.8
iS_1 19 54 14.4
D = 161 km

NOVEMBER 24
H = 00 57 20
Mag 2.5
Alberni
eP_1 00 57 35.4
eS_1 00 57 47.4
D = 98 km

NOVEMBER 24
Penticton
eP 03 16 26

NOVEMBER 24
Penticton
eP 07 46 58

NOVEMBER 24
Penticton
eP 14 13 51

NOVEMBER 24
Penticton
eP 14 44 39

NOVEMBER 24
Penticton
iP 19 52 08

NOVEMBER 24
Mould Bay
P 22 03 32

NOVEMBER 24
Mould Bay
P 22 30 47

NOVEMBER 24
Mould Bay
P 05 57 53

NOVEMBER 25
Penticton
iP 06 14 50 c

NOVEMBER 25
Penticton
eP 07 27 37

NOVEMBER 25
Penticton
eP 11 10 42

NOVEMBER 25
U.S.C.G.S.
6.3S, 154.8E
Solomon Islands
H = 14 11 23.2
h = 83 km
Alberni
eP 14 24 06
Banff
eP 14 24 35

Penticton
iP 14 24 22

NOVEMBER 25
Resolute
eP 16 08 14

NOVEMBER 25
U.S.C.G.S.
36.4N, 141.4E
Near coast of Honshu Japan
H = 20 19 50.7
h = 64 km
Alert, N.W.T.
iP 20 30 00 c
Penticton
iP 20 30 51
Resolute
eP 20 30 16 c

NOVEMBER 25
Penticton
eP 22 43 35

NOVEMBER 25
U.S.C.G.S.
22.3S, 175.5W
Tonga Islands
H = 22 54 46.3
h = 25 km
Penticton
eP 23 07 33

NOVEMBER 26
H = 00 01 33
Mag 2.2
Alberni
iP_1 00 01 40.8
iS_1 00 01 46.9
D = 50 km
Victoria
eP_1 00 01 58.5
D = 161 km

NOVEMBER 26
Penticton
eP 01 07 28

NOVEMBER 26
Mould Bay
P 10 10 42
Penticton
eP 10 08 04

NOVEMBER 26
Banff
eP 12 55 20.7
Penticton
iP 12 54 39.7 d
Victoria
eP 12 55 01.2

NOVEMBER 26
U.S.C.G.S.
30.7N, 44.1W
North Atlantic Ocean
H = 14 17 50.5
h = 39 km
Mould Bay
P 14 27 42
Resolute
eP 14 26 55
Shawinigan Falls
eP 14 23 41

NOVEMBER 26
Mould Bay
P 14 40 05
Penticton
eP 14 40 12
Resolute
eP 14 39 19

NOVEMBER 26
Canadian Arctic
H = 19 07 37.8
Mag 2.0
Resolute
P_1 19 08 22.0
S_1 | 19 08 55.5
D = 275 km

NOVEMBER 27
U.S.C.G.S.
38.9N, 106.1W
Colorado
H = 00 55 44.3
h = 19 km
Penticton
eP 00 58 58

NOVEMBER 27
Penticton
eP 01 02 16

NOVEMBER 27
U.S.C.G.S.
56.4S, 28.2W
Sandwich Islands
H = 01 54 20.6
h = 163 km
Penticton
eP' 02 13 08
Resolute
eP' 02 13 22

NOVEMBER 27
H = 04 00 57
Mag 2.2
Alberni
eP_1 04 01 08.9
eS_1 04 01 17.6
D = 72 km

NOVEMBER 27
Mould Bay
iP 05 55 35 c
Resolute
eP 05 56 10 c

NOVEMBER 27
U.S.C.G.S.
31.6N, 131.1E
Near coast of
Japan
H = 05 57 07.6
h = 25 km
Alert, N.W.T.
iP 06 07 57
Banff
eP 06 09 12
Mould Bay
iP 06 07 43 c
Penticton
iP 06 09 07
Resolute
iP 06 08 19 c
Victoria
eP 06 08 58

NOVEMBER 27
Mould Bay
P 06 18 32
Resolute
eP 06 19 09

NOVEMBER 27
Mould Bay
P 06 44 18

NOVEMBER 27
Resolute
eP 06 54 44

NOVEMBER 27
U.S.C.G.S.
49.8S, 121.7E
South of Australia
H = 10 53 45.2
h = 25 km
Mould Bay
P' 11 13 17
Resolute
eP' 11 13 38?

NOVEMBER 27
U.S.C.G.S.
0.6S, 127.1E
Halmahera region
H = 17 10 33.3
h = 25 km
Mag 6 1/4
Mould Bay
P 17 24 04
Penticton
eP' 17 28 40
Resolute
eP 17 24 31
Shawinigan Falls
eP' 17 29 49

NOVEMBER 27
Banff
eP 17 40 34

NOVEMBER 27
H = 19 48 39
Mag 2.0
Penticton
eP_1 19 49 03.2
eS_1 19 49 21.4
D = 149 km

NOVEMBER 27
Penticton
eP 22 09 47

NOVEMBER 27
U.S.C.G.S.
60.6S, 156.9E
Balleny Islands region
H = 23 30 46.4
h = 46 km
Mould Bay
P' 23 50 18
Resolute
eP' 23 50 33?

NOVEMBER 28
47.1°N, 122.5°W
Puget Sound Basin
H = 03 07 56
Mag 2.5
Penticton
eP_n 03 08 42.0
D = 325 km
Victoria
eP_1 03 08 22.8
eS_1 03 08 43.5
D = 170 km

NOVEMBER 28
Mould Bay
iP 03 58 22

NOVEMBER 28
Mould Bay
P 04 22 25

NOVEMBER 28
H = 05 19 20
Mag 1.9
Penticton
iP_1 05 19 34.5
iS_1 05 19 45.5
D = 90 km
Victoria
eP_n 05 19 59.0
D = 265 km

NOVEMBER 28
Mould Bay
P 06 46 49

NOVEMBER 28
U.S.C.G.S.
46.7N, 153.5E
Kurile Islands
H = 07 53 43.9
h = 80 km
Mould Bay
P 08 01 49
Penticton
eP 08 03 08

Resolute
eP 08 02 38

NOVEMBER 28
U.S.C.G.S.
40.6N, 26.5E
Greece-Turkey border
H = 08 58 51.3
h = 119 km
Banff
eP 09 11 02
Mould Bay
P 09 08 57
Penticton
eP 09 11 18
Resolute
eP 09 08 38

NOVEMBER 28
Mould Bay
P 10 24 02

NOVEMBER 28
U.S.C.G.S.
35.7N, 73.6E
India-Pakistan
border
H = 10 14 44.5
h = 31 km
Alert, N.W.T.
eP 10 24 55 c
Mould Bay
iP 10 25 49 c
Penticton
iP 10 28 10 d
Resolute
eP 10 25 57

NOVEMBER 28
Penticton
eP 13 42 08

NOVEMBER 28
U.S.C.G.S.
35.9N, 140.2E
Honshu Japan
H = 16 37 58.5
h = 101 km
Mould Bay
P 16 47 42
Resolute
eP 16 48 22

NOVEMBER 28
U.S.C.G.S.
56.9S, 143.5E
South of Tasmania
H = 18 34 37.4
h = 51 km
Mould Bay
P' 18 54 13
Resolute
eP' 18 54 29
i 19 43 13

NOVEMBER 28
Penticton
eP 20 18 16

NOVEMBER 28
H = 20 42 00
Mag 1.9
Alberni
iP_1 20 42 08.1
iS_1 20 42 14.5
D = 52 km

NOVEMBER 28
H = 23 24 28
Mag 1.7
Alberni
eP_1 23 24 38.3
eS_1 23 24 45.8
D = 62 km

NOVEMBER 28
H = 23 45 05
Mag 1.6
Alberni
iP_1 23 45 14.0
iS_1 23 45 20.9
D = 56 km

NOVEMBER 29
Mould Bay
P 01 21 18

NOVEMBER 29
U.S.C.G.S.
38.5S, 75.0W
Near coast of Chile
H = 04 43 07.7
h = 85 km
Shawinigan Falls
eP 04 55 37 c

NOVEMBER 29
Resolute
i 10 04 41?

NOVEMBER 29
Penticton
eP 10 47 46

NOVEMBER 29
Penticton
eP 11 54 31
Victoria
eP 11 53 10

NOVEMBER 29
U.S.C.G.S.
52.2N, 158.4E
Near coast of
Kamchatka
H = 17 50 05.6
h = 76 km
Mould Bay
P 17 57 20

DOMINION OBSERVATORIES

Penticton
eP 17 58 49
Resolute
eP 17 58 11

NOVEMBER 29
Penticton
eP 18 29 51

NOVEMBER 29
Mould Bay
P 20 34 50

NOVEMBER 29
U.S.C.G.S.
6.9S, 75.9W
Peru
H = 20 38 06.5
h = 25 km
Mould Bay
eP 20 50 52 c
Penticton
eP 20 48 42
Shawinigan Falls
eP 20 47 28

NOVEMBER 30
Penticton
eP 00 26 10

NOVEMBER 30
Resolute
eP 01 21 22

NOVEMBER 30
Mould Bay
iP 04 41 15 c

NOVEMBER 30
Mould Bay
P 06 09 03

NOVEMBER 30
47.2°N, 122.1°W
East of Seattle
Washington, U.S.A.
H = 08 12 50
Mag 3.1
Alberni
eP_n 08 13 29.0
D = 265 km
Penticton
eP_n 08 13 28.5
eS_n 08 14 03.3
D = 260 km
Victoria
iP_1 08 13 10.6
iS_1 08 13 26.2
D = 128 km

NOVEMBER 30
Mould Bay
P 08 15 14

NOVEMBER 30
Canadian Arctic
H = 08 41 08.0
Mag 2.0
Resolute
iP_1 08 41 18.0
i 08 41 23.0
iS_1 08 41 25.6
D = 62.4 km

NOVEMBER 30
Mould Bay
iP 10 40 48 c
Resolute
eP 10 40 57

NOVEMBER 30
U.S.C.G.S.
43.8N, 132.1E
Near Vladivostok,
U.S.S.R.
H = 12 20 07.3
h = 469 km
Mould Bay
P 12 28 37
Penticton
iP 12 30 23 c
Resolute
eP 12 29 16

NOVEMBER 30
Penticton
eP 16 31 11

NOVEMBER 30
Mould Bay
P 16 45 59

NOVEMBER 30
U.S.C.G.S.
3.3S, 127.2E
Ceram Sea
H = 16 46 51.5
h = 75 km
Mould Bay
P 17 00 26

NOVEMBER 30
Mould Bay
P 18 01 19

NOVEMBER 30
Resolute
eP? 18 02 08

NOVEMBER 30
Penticton
eP 22 37 05

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 1
Mould Bay
iP 02 26 51

DECEMBER 1
Mould Bay
P 02 53 09

DECEMBER 1
U.S.C.G.S.
56.6N, 158.8E
Kamchatka
H = 07 34 17.9
h = 18 km
Alberni
eP 07 42 31
Alert, N.W.T.
P 07 41 52
Banff
eP 07 42 56
Halifax
iP 07 45 51 c
Mould Bay
eP 07 41 08 d
Penticton
iP 07 42 51
Resolute
eP 07 41 59 c
Shawinigan Falls
eP 07 45 24 d

DECEMBER 1
U.S.C.G.S.
8.7N, 122.0E
Philippine Islands
H = 07 58 49.7
h = 36 km
Mould Bay
P 08 11 36
Resolute
eP 08 12 02

DECEMBER 1
Penticton
eP 13 00 28

DECEMBER 1
Resolute
i 19 04 11

DECEMBER 1
Penticton
eP 19 22 29

DECEMBER 1
H = 19 59 20
Mag 1.9
Penticton
eP_1 19 59 46.4
eS_1 20 00 06.4
D = 164 km

DECEMBER 1
U.S.C.G.S.
27.7N, 141.5E
Volcano Islands region
H = 20 17 41.5
h = 25 km
Alert, N.W.T.
eP 20 28 50 d
Mould Bay
P 20 28 24
Penticton
eP 20 29 43
Resolute
eP 20 29 02

DECEMBER 1
Penticton
eP 20 48 27

DECEMBER 1
U.S.C.G.S.
26.5N, 124.9E
China Sea
H = 21 13 04.1
h = 206 km
Alberni
iP 21 25 05

Alert, N.W.T.
iP 21 24 01 d
Banff
iP 21 25 23 d
Mould Bay
P 21 23 53
Penticton
iP 21 25 20 d
Resolute
iP 21 24 28 d
Victoria
iP 21 25 11 d

DECEMBER 1
Penticton
eP 21 35 22

DECEMBER 1
Penticton
eP 21 58 09

DECEMBER 1
Penticton
eP 22 16 29

DECEMBER 1
Penticton
eP 22 20 15

DECEMBER 1
Penticton
eP 23 08 28

DECEMBER 1
Penticton
eP 23 12 45

DECEMBER 1
Resolute
eP 23 54 15 ?

DECEMBER 2
H = 00 18 39
Mag 2.4
Penticton
iP_1 00 19 07.0
iS_1 00 19 28.7
D = 177 km
Victoria
eP_n 00 19 24.5
D = 322 km

DECEMBER 2
Resolute
eP 02 21 48

DECEMBER 2
Penticton
eP 02 43 02

DECEMBER 2
Resolute
eP 03 13 33

DECEMBER 2
Resolute
eP 03 36 56

DECEMBER 2
Resolute
eP 04 23 27

DECEMBER 2
Mould Bay
P 04 58 24
Penticton
eP 04 55 42

DECEMBER 2
Mould Bay
P 07 29 58

DECEMBER 2
Mould Bay
P 11 10 39

DECEMBER 2
U.S.C.G.S.
36.5N, 8.6E
Northern Tunis
H = 12 40 17.8
h = 62 km
Alberni
eP 12 52 59
Alert, N.W.T.
P 12 49 20
Banff
eP 12 52 21
Halifax
iP 12 49 34.5 d
Mould Bay
P 12 50 41
Penticton
eP 12 52 40
Resolute
eP 12 50 11 c
Shawinigan Falls
eP 12 50 14
Victoria
eP 12 52 50

DECEMBER 2
Mould Bay
P 13 33 32

DECEMBER 2
U.S.C.G.S.
16.9S, 168.2E
New Hebrides Islands
H = 14 06 10.0
h = 219 km
Penticton
ep 14 19 03

DECEMBER 2
Penticton
eP 14 29 53

DECEMBER 2
Penticton
eP 14 31 56

DECEMBER 2
Mould Bay
iP 14 33 55 d

DECEMBER 2
Penticton
eP 14 51 45

DECEMBER 2
Penticton
eP 15 22 44

DECEMBER 2
Mould Bay
P 15 39 06

DECEMBER 2
Penticton
iP 15 52 40 d

DECEMBER 2
Resolute
eP 16 15 15 ?

DECEMBER 2
Mould Bay
P 17 12 26

DECEMBER 2
Mould Bay
iP 17 28 43

DECEMBER 2
Resolute
eP? 18 12 38
i 18 13 52

DECEMBER 2
Mould Bay
P 18 34 30

DECEMBER 2
U.S.C.G.S.
22.7S, 175.1W
Tonga Islands
H = 18 45 51.6
h = 89 km
Penticton
iP 18 58 33 d

DECEMBER 2
U.S.C.G.S.
51.8N, 179.6E
Andreanof Islands
H = 19 19 58.5
h = 81 km
Mould Bay
P 19 26 36
Resolute
eP? 19 27 28
i 19 28 54

DECEMBER 2
Mould Bay
P 19 55 26

DECEMBER 2
Mould Bay
iP 21 04 27 d

DECEMBER 2
Mould Bay
P 21 07 50

DECEMBER 2
Mould Bay
P 21 29 01

DECEMBER 2
Resolute
eP? 21 45 (28)
i 21 46 42

DECEMBER 2
Penticton
eP 22 56 09

DECEMBER 3
U.S.C.G.S.
17.9N, 99.3W
Guerrero Mexico
H = 01 00 35.2
h = 31 km
Alert, N.W.T.
eP 01 11 20
Mould Bay
P 01 10 41
Penticton
iP 01 07 32 d
Resolute
eP? 01 10 17
Shawinigan Falls
eP 01 07 36 d

DECEMBER 3
Penticton
iP 04 05 38

DECEMBER 3
Penticton
eP 06 10 42

DECEMBER 3
Penticton
eP 07 00 12

DECEMBER 3
Penticton
eP 07 55 42

DECEMBER 3
U.S.C.G.S.
25.0N, 122.9E
Off coast of
Formosa
H = 08 40 20.6
h = 91 km
Alberni
eP 08 52 58
Alert, N.W.T.
iP 08 51 44 c
Banff
eP 08 53 08
Mould Bay
iP 08 51 40 c
Penticton
iP 08 53 04
Resolute
eP 08 52 10 c

DECEMBER 3
U.S.C.G.S.
41.4N, 70.0E
Kirghiz, S.S.R.
H = 09 32 23.1
h = 25 km
Mould Bay
P 09 42 41
Penticton
eP 09 45 16

DOMINION OBSERVATORIES

DECEMBER 3
Mould Bay
P 11 27 28
Shawinigan Falls
eP 11 24 15

DECEMBER 3
U.S.C.G.S.
24.0S, 68.1W
Northern Chile
H = 14 27 43.4
h = 217 km
Penticton
iP 14 40 03 c

DECEMBER 3
U.S.C.G.S.
11.6S, 166.1E
Santa Cruz Islands
H = 16 14 31.4
h = 122 km
Penticton
eP 16 27 15

DECEMBER 3
Resolute
i 16 47 55 ?

DECEMBER 3
Mould Bay
P 17 11 08

DECEMBER 3
U.S.C.G.S.
41.2N, 44.0E
Armenia S.S.R.
H = 18 31 59.1
h = 49 km
Alert, N.W.T.
eP 18 41 02
Banff
eP 18 44 38

DECEMBER 3
Mould Bay
iP 18 42 19 d
Penticton
eP 18 44 48
Resolute
eP 18 42 09
Shawinigan Falls
eP 18 43 44

DECEMBER 3
U.S.C.G.S.
43.6N, 134.9E
Near Vladivostok,
U.S.S.R.
H = 19 55 05.3
h = 420 km
Alberni
eP 20 05 10
Alert, N.W.T.
iP 20 03 51 d
Banff
eP 20 05 23
Mould Bay
eP 20 03 36 d
Penticton
iP 20 05 19
Resolute
eP 20 04 17
Shawinigan Falls
eP 20 07 08 c
Victoria
eP 20 05 09

DECEMBER 3
Alberni
eP 21 25 47
Penticton
eP 21 26 28

DECEMBER 3
Penticton
eP 23 08 06

DECEMBER 3
Penticton
eP 23 11 39

DECEMBER 3
Resolute
i 23 12 28

DECEMBER 4
Penticton
eP 03 29 45

DECEMBER 4
Penticton
eP 03 41 11

DECEMBER 4
U.S.C.G.S.
55.2N, 159.9W
South of Alaska
H = 03 42 38.2
h = 106 km
Mould Bay
iP 03 48 06 d
Penticton
eP 03 48 01
Resolute
eP? 03 48 52?
Shawinigan Falls
eP 03 51 43

DECEMBER 4
Penticton
eP 04 37 41

DECEMBER 4
Mould Bay
P 05 15 41
Local ?

DECEMBER 4
U.S.C.G.S.
5.2S, 151.6E
New Britain
H = 05 33 18.5
h = 59 km
Mould Bay
P 05 46 36
Penticton
iP 05 46 29 d
Shawinigan Falls
eP' 05 52 12 d

DECEMBER 4
Penticton
eP 06 32 56

DECEMBER 4
U.S.C.G.S.
18.9N, 68.8W
South of Dominican
Republic
H = 07 36 26.0
h = 164 km
Alert, N.W.T.
eP 07 46 42 c
Mould Bay
P 07 46 36

DECEMBER 4
U.S.C.G.S.
60.3N, 160.4E
Off coast of
Kamchatka
H = 08 20 14.0
h = 15 km
Alert, N.W.T.
eP 08 27 18
Mould Bay
P 08 26 27
Penticton
eP 08 28 28
Resolute
eP? 08 27 24?
i 08 27 28
i 08 29 48

DECEMBER 4
Penticton
eP 10 28 43

DECEMBER 4
Mould Bay
P 12 39 55

DECEMBER 4
U.S.C.G.S.
33.2N, 95.3E
Tibet
H = 12 38 11.9
h = 45 km
Alert, N.W.T.
eP 12 48 45
Banff
eP 12 51 17
Mould Bay
P 12 49 13
Penticton
eP 12 51 23
Resolute
eP 12 49 37
S 12 58 57
SPS 13 01 28
G 13 09 07
i 13 18 29
i 13 22 22

DECEMBER 4
Mould Bay
P 14 36 25
Penticton
eP 14 36 53

DECEMBER 5
H = 00 52 31
Mag 2.0
Alberni
eP_1 00 52 40.1
eS_1 00 52 46.7
D = 54 km

DECEMBER 5
H = 03 13 49
Mag 2.9
Penticton
iP_n 03 14 33.5
iS_n 03 15 11.0
D = 307 km

DECEMBER 5
U.S.C.G.S.
45.9S, 74.6W
Southern Chile
H = 06 44 12.7
h = 25 km
Mould Bay
P' 07 03 11

DECEMBER 5
U.S.C.G.S.
16.0S, 168.1E
New Hebrides Islands
H = 13 02 31.9
h = 145 km
Alberni
eP 13 15 06
Alert, N.W.T.
eP' 13 20 44
Mould Bay
P' 13 20 32
Penticton
eP 13 15 20
Resolute
eP' 13 20 (38)
i 13 20 44
Shawinigan Falls
eP' 13 21 06

DECEMBER 5
Resolute
eP 15 00 50

DOMINION OBSERVATORIES

DECEMBER 5
Mould Bay
P 15 31 45
Penticton
eP 15 29 41

DECEMBER 5
Penticton
eP 15 47 59

DECEMBER 5
U.S.C.G.S.
21.0S, 178.4W
New Hebrides Islands
H = 22 39 11.0
h = 532 km
Penticton
eP 22 51 03

DECEMBER 5
H = 22 55 48
Mag 1.4
Penticton
eP_1 22 55 54.4
eS_1 22 55 59.0
D = 38 km

DECEMBER 5
H = 23 11 48
Mag 1.7
Penticton
eP_1 23 11 59.1
eS_1 23 12 07.3
D = 67 km

DECEMBER 6
Penticton
eP 00 16 14

DECEMBER 6
Penticton
eP 00 39 37

DECEMBER 6
Penticton
eP 00 59 08

DECEMBER 6
U.S.C.G.S.
37.8N, 142.6E
Off coast of
Honshu Japan
H = 02 15 59.5
h = 47 km
Alert, N.W.T.
eP 02 25 58
Mould Bay
iP 02 25 32
Resolute
eP 02 26 14

DECEMBER 6
Penticton
eP 04 54 43
Resolute
eP? 04 55 20

DECEMBER 6
U.S.C.G.S.
13.7N, 93.6E
Andaman Islands
H = 05 48 39.3
h = 53 km
Mag 5 3/4
Alert, N.W.T.
eP 06 01 05
Mould Bay
eP 06 01 28 c
Resolute
eP 06 01 45
PP 06 05 29
S? 06 12 41

DECEMBER 6
Penticton
eP 06 07 11

DECEMBER 6
Mould Bay
P 06 19 11
Penticton
eP 06 18 08

DECEMBER 6
47.1°N, 121.7°W
East of Seattle,
Washington, U.S.A.
H = 07 45 22
Mag 2.1
Alberni
eP_n 07 46 05.6
D = 300 km
Penticton
eP_n 07 45 55.5
eS_n 07 46 21.6
D = 214 km
Victoria
eP_1 07 45 43.4
eS_1 07 45 59.9
D = 135 km

DECEMBER 6
Mould Bay
iP 09 41 47 c
Local ?

DECEMBER 6
Penticton
eP 10 44 05

DECEMBER 6
Penticton
eP 11 08 36

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 6
Resolute
i 13 04 45

DECEMBER 6
U.S.C.G.S.
23.5S, 176.0W
Tonga Islands region
H = 13 35 43.8
h = 18 km
Mag 6 1/4
Alberni
eP 13 48 23
Banff
eP 13 48 50
Penticton
iP 13 48 36
Victoria
eP 13 48 22

DECEMBER 6
Penticton
eP 13 55 27

DECEMBER 6
Resolute
i 14 04 18
i 14 14 29
i 14 35 02

DECEMBER 6
U.S.C.G.S.
23.7S, 175.7W
Tonga Islands region
H = 15 18 05.8
h = 29 km
Penticton
eP 15 30 59

DECEMBER 6
Mould Bay
iP 16 12 18
Local ?

DECEMBER 6
U.S.C.G.S.
49.4N, 155.2E
Kurile Islands
H = 16 39 31.5
h = 22 km
Mag 6
Alberni
eP 16 48 25 c
Alert, N.W.T.
eP 16 48 04
Banff
eP 16 48 53 c
Halifax
eP 16 51 44.5 d?
Mould Bay
iP 16 47 22 c
Penticton
iP 16 48 46 c
Resolute
iP 16 48 12 c
Shawinigan Falls
eP 16 51 18
Victoria
eP 16 48 34 c

DECEMBER 6
Penticton
eP 22 20 47

DECEMBER 6
H = 22 52 28
Mag 2.2
Penticton
eP_1 22 52 53.9
eS_1 22 53 13.6
D = 162 km

DECEMBER 6
Penticton
iP 23 19 30

DECEMBER 7
U.S.C.G.S.
23.4S, 175.9W
Tonga Islands region
H = 00 18 26.0
h = 45 km
Penticton
eP 00 31 16

DECEMBER 7
Penticton
eP 02 13 29

DECEMBER 7
Penticton
eP 03 03 07

DECEMBER 7
Penticton
eP 06 03 03

DECEMBER 7
Resolute
eP 08 07 39

DECEMBER 7
Resolute
i 09 49 44

DECEMBER 7
Mould Bay
i 09 52 43
Resolute
eP? 09 52 32
i 09 52 43
i 09 54 07

DECEMBER 7
Resolute
eP? 09 56 34
i 09 56 39

DOMINION OBSERVATORIES

DECEMBER 7
Resolute
i 12 03 10

DECEMBER 7
U.S.C.G.S.
22.9S, 175.9W
Tonga Islands
H = 14 24 00.6
h = 27 km
Penticton
eP 14 36 51

DECEMBER 7
U.S.C.G.S.
25.4S, 175.4W
Tonga Islands region
H = 16 29 13.3
h = 79 km
Penticton
eP 16 42 05

DECEMBER 7
Penticton
eP 19 42 51

DECEMBER 7
Penticton
eP 20 50 13

DECEMBER 7
Penticton
eP 23 49 12

DECEMBER 8
Mould Bay
P 03 17 16

DECEMBER 8
U.S.C.G.S.
23.6S, 175.8W
Tonga Islands region
H = 03 46 24.5
h = 45 km
Penticton
eP 03 59 15

DECEMBER 8
Penticton
eP 04 52 32

DECEMBER 8
Penticton
eP 05 00 19

DECEMBER 8
Resolute
eP? 06 40 (20)

DECEMBER 8
U.S.C.G.S.
16.3N, 104.3W
South of Mexico
H = 07 58 02.0
h = 65 km
Mould Bay
P 08 08 06

DECEMBER 8
U.S.C.G.S.
1.8S, 139.4E
Near New Guinea
H = 09 36 24.9
h = 55 km
Shawinigan Falls
eP' 09 55 27 d

DECEMBER 8
Mould Bay
P 10 16 17

DECEMBER 8
Mould Bay
iP 11 20 42
Local ?

DECEMBER 8
Penticton
eP 14 55 32

DECEMBER 8
Penticton
eP 18 49 29

DECEMBER 8
Mould Bay
P 20 40 36

DECEMBER 8
Mould Bay
P 21 46 00

DECEMBER 8
Mould Bay
P 22 02 05

DECEMBER 8
Penticton
iP 22 01 48

DECEMBER 8
Penticton
eP 23 30 12

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 9
U.S.C.G.S.
56.3N, 153.9W
Alaska region
H = 02 15 22.0
h = 31 km
Mag 5 1/2
Alert, N.W.T.
iP 02 22 14 c
Banff
eP 02 20 24
Halifax
eP 02 24 53
Mould Bay
iP 02 20 36 c
Penticton
iP 02 20 12 d
Resolute
eP 02 21 20 c
Shawinigan Falls
eP 02 24 13
Victoria
eP 02 19 55

DECEMBER 9
Mould Bay
P 02 44 34

DECEMBER 9
U.S.C.G.S.
14.9S, 75.7W
Off coast of Peru
H = 03 58 55.4
h = 39 km
Halifax
eP 04 08 58
Mould Bay
P 04 12 15 c
Penticton
eP 04 10 36
Resolute
eP 04 11 54 c
Shawinigan Falls
eP 04 09 10

DECEMBER 9
Mould Bay
iP 04 42 13
Local ?

DECEMBER 9
U.S.C.G.S.
35.9S, 179.3W
Northeast of
New Zealand
H = 04 25 56.6
h = 60 km
Mould Bay
P' 04 44 36

DECEMBER 9
Penticton
eP 04 58 05

DECEMBER 9
Penticton
eP 07 29 04

DECEMBER 9
Resolute
eP 08 10 06?

DECEMBER 9
Resolute
eP? 11 14 09

DECEMBER 9
U.S.C.G.S.
43.7S, 75.2W
Near coast of
Southern Chile
H = 11 18 08.9
h = 34 km
Mag 6 3/4
Alert, N.W.T.
P' 11 37 07
Halifax
eP 11 31 00
Mould Bay
P' 11 37 01
Penticton
eP 11 31 57
Resolute
e 11 36 10
iP' 11 37 08
S? 11 47 (34)
i 11 48 02
SS? 11 54 17
i 11 57 08
i 12 06 18
i 12 40 11
Shawinigan Falls
eP 11 31 05

DECEMBER 9
Penticton
eP 11 48 11

DECEMBER 9
Mould Bay
iP 19 47 21

DECEMBER 9
U.S.C.G.S.
21.7S, 179.9E
Fiji Islands
H = 19 49 41.3
h = 620 km
Alberni
iP 20 01 23 d
Alert, N.W.T.
iP' 20 07 16 c
Banff
eP 20 01 52 d
Mould Bay
P 20 02 41
Penticton
iP 20 01 35 d
Resolute
eP' 20 07 06
Victoria
iP 20 01 24 d

DECEMBER 9
Mould Bay
P 21 14 14

DECEMBER 9
Mould Bay
P 21 24 30
Penticton
eP 21 24 07

DECEMBER 9
U.S.C.G.S.
56.3N, 153.5W
Kodiak Island region
H = 21 21 49.0
h = 19 km
Alert, N.W.T.
eP 21 28 40
Mould Bay
iP 21 27 01
Penticton
eP 21 26 38
Resolute
eP 21 27 47

DECEMBER 9
U.S.C.G.S.
23.0S, 176.8W
Tonga Islands region
H = 21 41 42.1
h = 25 km
Penticton
eP 21 54 35

DECEMBER 9
Penticton
eP 22 22 38

DECEMBER 9
Mould Bay
P 23 57 19

DECEMBER 10
Penticton
eP 00 24 37

DECEMBER 10
Mould Bay
P 04 06 03
Local ?

DECEMBER 10
Penticton
eP 04 23 44

DECEMBER 10
U.S.C.G.S.
56.5N, 152.1W
Kodiak Island region
H = 04 58 41.3
h = 68 km
Mould Bay
P 05 03 47 d
Penticton
iP 05 03 22 d
Resolute
eP 05 04 31

DECEMBER 10
Mould Bay
P 06 41 53
Local ?

DECEMBER 10
U.S.C.G.S.
38.8N, 25.7E
Aegean Sea
H = 08 39 11.1
h = 79 km
Mould Bay
P 08 49 57
Resolute
eP? 08 49 40?
Shawinigan Falls
eP 08 50 24

DECEMBER 10
Mould Bay
P 12 26 38
Resolute
eP 12 27 18
eP 12 27 22
Penticton
eP 12 26 19

DECEMBER 10
U.S.C.G.S.
32°15'49"N,
103°51'57"W
Carlsbad, New Mexico
(Project Gnome)
H = 19 00 00
Mould Bay
P 19 08 14 d
Penticton
iP 19 04 41

DECEMBER 11
Penticton
eP 00 32 22

DECEMBER 11
Penticton
eP 00 40 10

DECEMBER 11
Penticton
eP 07 15 38

DECEMBER 11
Penticton
eP 09 22 26

DECEMBER 11
Penticton
eP 09 28 53

DECEMBER 11
Mould Bay
P 09 34 46
Local ?

DECEMBER 11
Penticton
eP 10 16 37

DECEMBER 11
Penticton
eP 16 14 36

DECEMBER 11
U.S.C.G.S.
36.5N, 23.5E
Near coast of
Greece
H = 16 53 05.3
h = 25 km
Alert, N.W.T.
eP 17 02 25
Mould Bay
P 17 03 45
Resolute
eP 17 03 25
Shawinigan Falls
eP 17 04 09

DECEMBER 11
Mould Bay
iP 19 20 18
Local ?

DECEMBER 11
H = 20 36 09
Mag 1.9
Penticton
iP_1 20 36 37.1
iS_1 20 36 58.6
D = 176 km
Mag 1.9

DECEMBER 11
Penticton
eP 21 10 13

DECEMBER 12
Penticton
eP 00 12 25

DECEMBER 12
Penticton
eP 00 36 39

DECEMBER 12
Mould Bay
iP 10 34 52
Local ?

DECEMBER 12
U.S.C.G.S.
11.8N, 59.8W
Windward Islands
region
H = 11 18 14.8
h = 36 km
Mould Bay
P 11 29 37
Penticton
iP 11 28 33 d

DECEMBER 12
Mould Bay
iP 14 18 15
Local ?

DECEMBER 12
U.S.C.G.S.
21.7N, 146.0E
Mariana Islands region
H = 17 23 04.0
h = 24 km
Alert, N.W.T.
eP 17 34 43
Penticton
eP 17 34 57
Resolute
eP 17 34 55

DECEMBER 12
U.S.C.G.S.
18.9N, 107.6W
Revilla Gigedo Islands
region
H = 22 14 36.3
h = 33 km
Mould Bay
P 22 24 27
Resolute
eP 22 24 16
i 22 28 30
i 22 39 44
i 22 48 20
i 22 54 05

DECEMBER 12
U.S.C.G.S.
43.5N, 146.2E
Near coast of
Hokkaido Japan
H = 23 06 18.4
h = 44 km
Alberni
iP 23 16 10 c
Alert, N.W.T.
P 23 15 34
Banff
eP 23 16 37 c
Halifax
eP 23 19 09.5 d
i 23 19 26
Mould Bay
P 23 15 05

DOMINION OBSERVATORIES

Penticton
iP 23 16 29 c
Resolute
eP 23 15 49
e 23 17 12
e 23 23 48
Shawinigan Falls
eP 23 18 45 c
Victoria
eP 23 16 18 c

DECEMBER 13
Penticton
eP 02 36 06

DECEMBER 13
Mould Bay
P 04 28 06

DECEMBER 13
U.S.C.G.S.
26.7N, 129.6E
Ryukyu Islands
H = 08 40 57.3
h = 161 km
Alert, N.W.T.
P 08 52 01
Mould Bay
P 08 51 50
Resolute
eP 08 52 23
iP 08 52 28 d

DECEMBER 13
U.S.C.G.S.
50.9S, 73.0W
Chile-Argentina
border
H = 11 23 28.9
h = 82 km
Mould Bay
P' 11 42 29

DECEMBER 13
Penticton
eP 23 37 49

DECEMBER 13
Penticton
eP 23 48 26

DECEMBER 14
Penticton
eP 00 01 23

DECEMBER 14
Penticton
eP 00 52 23

DECEMBER 14
43°50'N±18',
67°49'N±18'
Atlantic Ocean about
40 miles from New
England coast and 85
miles due west of
Yarmouth, N.S.
H = 01 49 35.4
h = 25 km
Mag 3.9
Halifax
P_n 01 50 23.4 c
P_1 01 50 32.9
S_n 01 50 59.4
S_1 01 51 12
D = 348 km
Montreal
iP_1 01 50 54.0 c
S_n 01 51 27.6
S_1 01 51 53.3
D = 496 km
Shawinigan Falls
S_1 01 51 52.4
D = 492 km

DECEMBER 14
Mould Bay
P 01 54 49

DECEMBER 14
Mould Bay
P 02 49 56

DECEMBER 14
Resolute
eP ? 06 45 38 ?

DECEMBER 14
U.S.C.G.S.
3.1S, 140.9E
Near coast of
New Guinea
H = 07 10 23.2
h = 44 km
Penticton
eP 07 24 02
e 07 27 54
Resolute
eP 07 24 15
eP 07 24 18
e 07 34 53
e 07 37 32
e 07 43 18
e 07 45 18
Shawinigan Falls
eP' 07 29 37

DECEMBER 14
Mould Bay
P 08 23 47

DECEMBER 14
Mould Bay
P 12 10 07

DECEMBER 14
Resolute
eP 17 34 57

DECEMBER 14
Resolute
eP 18 03 47

DECEMBER 14
U.S.C.G.S.
17.1S, 179.0W
Fiji Islands
H = 18 49 02.4
h = 394 km
Penticton
eP 19 00 54

DECEMBER 14
48.9°N, 125.4°W
Berkley Sound
H = 20 45 49
Mag 2.0
Alberni
iP_1 20 45 57.6
iS_1 20 46 03.9
D = 51 km
Penticton
eP_n 20 46 49.8
D = 430 km
Victoria
eP_1 20 46 15.0
eS_1 20 46 32.2
D = 150 km

DECEMBER 14
Penticton
eP 22 05 23

DECEMBER 14
Penticton
eP 23 27 01

DECEMBER 14
U.S.C.G.S.
26.1S, 179.3E
South of Fiji Islands
H = 23 26 02.8
h = 497 km
Penticton
eP 23 38 27

DECEMBER 15
Mould Bay
P 11 48 35
Penticton
eP 11 46 52

DECEMBER 15
U.S.C.G.S.
5.5S, 147.2E
Near coast of
New Guinea
H = 12 36 30.7
h = 181 km
Penticton
iP 12 49 39

DECEMBER 15
Mould Bay
P 14 20 54
Penticton
eP 14 18 10

DECEMBER 15
Mould Bay
P 14 57 18

DECEMBER 15
Mould Bay
P 18 20 29
Local ?

DECEMBER 15
Mould Bay
P 19 35 23

DECEMBER 15
U.S.C.G.S.
0.9N, 126.2E
Molucca Passage
H = 19 36 03.5
h = 47 km
Mould Bay
P 19 49 21

DECEMBER 15
Penticton
eP 21 37 06

DECEMBER 15
Penticton
eP 23 36 20

DECEMBER 15
Resolute
eP? 23 53 (59)

DECEMBER 16
U.S.C.G.S.
9.7N, 125.6E
Near coast of
Mindanao, Philippine
Islands
H = 01 37 18.1
h = 163 km
Mould Bay
P 01 49 45
Resolute
eP 01 50 12

DECEMBER 16
Mould Bay
P 02 22 14
Local ?

DOMINION OBSERVATORIES

DECEMBER 16
Resolute
eP 04 18 04 ?

DECEMBER 16
Mould Bay
P 04 21 55
Local ?

DECEMBER 16
Mould Bay
P 08 38 28
Local ?

DECEMBER 16
U.S.C.G.S.
23.9S, 175.4W
Tonga Islands region
H = 09 59 11.8
h = 25 km
Penticton
iP 10 12 06 c

DECEMBER 16
Alberni
eP 10 57 05
Penticton
eP 10 57 57
Victoria
eP 10 57 22

DECEMBER 16
Alberni
eP 11 38 23
Penticton
eP 11 38 23
Victoria
eP 11 38 01

DECEMBER 16
U.S.C.G.S.
51.9N, 160.2E
Near coast of
Kamchatka
H = 13 40 20.1
h = 23 km
Alert, N.W.T.
iP 13 48 31 c
Mould Bay
P 13 47 41
Penticton
eP 13 49 06
Resolute
eP 13 48 33

DECEMBER 16
Mould Bay
P 14 32 10
Local ?

DECEMBER 16
Mould Bay
P 17 12 27
Local ?

DECEMBER 16
H = 17 24 29
Mag 2.0
Penticton
eP_n 17 25 09.4
eS_n 17 25 33.3
D = 196 km

DECEMBER 16
Penticton
eP 17 28 22

DECEMBER 16
H = 18 25 08
Mag 2.0
Penticton
eP_n 18 25 37.6
eS_n 18 26 00.7
D = 189 km

DECEMBER 16
Penticton
iP 21 39 30 d

DECEMBER 16
H = 23 38 07
Mag 1.8
Penticton
eP_1 23 38 31.5
eS_1 23 38 50.5
D = 156 km

DECEMBER 17
Mould Bay
P 00 36 46
Local ?

DECEMBER 17
Penticton
eP 00 59 41

DECEMBER 17
Mould Bay
P 01 02 12

DECEMBER 17
Mould Bay
iP 06 02 18 d

DECEMBER 17
Canadian Arctic
H = 09 24 42.5
h = 25 km
Mag 2.4
Resolute
eP_n 09 25 13.8
iP_1 09 25 17.5
i 09 25 32.6
iS_n 09 25 36.9
iS_1 09 25 44
D = 216 km

DECEMBER 17
Mould Bay
P 14 42 28
Local ?

DECEMBER 17
Penticton
eP 16 52 45

DECEMBER 17
U.S.C.G.S.
14.4S, 75.8W
Near coast of Peru
H = 21 32 01.8
h = 85 km
Penticton
iP 21 43 35 c
Resolute
eP 21 44 53
Shawinigan Falls
eP 21 42 08

DECEMBER 17
U.S.C.G.S.
54.5S, 143.9E
South of Tasmania
H = 22 12 32.3
h = 45 km
Alert, N.W.T.
P' 22 32 20
Mould Bay
P' 22 31 59
Resolute
eP' 22 32 16
Shawinigan Falls
eP' 22 32 26

DECEMBER 17
Mould Bay
P 22 39 59
Resolute
eP 22 40 15
e 22 56 04
e 23 29 14

DECEMBER 17
Mould Bay
P 23 02 05

DECEMBER 18
U.S.C.G.S.
19.6N, 120.8E
Off coast of Luzon
Philippine Islands
H = 02 18 31.3
h = 32 km
Mould Bay
P 02 30 26
Resolute
eP 02 30 56

DECEMBER 18
Alert, N.W.T.
P 03 23 18
Mould Bay
P 03 23 31
Penticton
iP 03 23 04
Resolute
e 03 23 12

DECEMBER 18
Penticton
eP 03 26 29

DECEMBER 18
Penticton
eP 06 26 09

DECEMBER 18
Mould Bay
iP 06 41 35 c

DECEMBER 18
48.7°N, 128.0°W
West of Vancouver
Island
H = 07 15 58
Mag 3.0
Alberni
eP_n 07 16 34.4
eS_n 07 17 04.0
D = 242 km
Penticton
eP_n 07 17 29
D = 692 km
Victoria
eP_n 07 16 46.0
D = 338 km

DECEMBER 18
Mould Bay
P 09 31 48

DECEMBER 18
Mould Bay
P 15 52 12
Local

DECEMBER 18
U.S.C.G.S.
26.4N, 96.3E
Burma-India border
H = 16 42 21.6
h = 85 km
Mould Bay
iP 16 53 57 d
Resolute
eP 16 54 17

DECEMBER 18
Mould Bay
P 20 39 39
Local ?

DECEMBER 18
48°50'N, 122°48'W
Washington, U.S.A.
H = 22 08 36
Mag 2.7
Alberni
iP_1 22 09 03.3
iS_1 22 09 24.2
D = 159 km
Penticton
eP_n 22 09 13.2
D = 253 km
Victoria
iP_1 22 08 47.0
iS_1 22 08 55.6
D = 57 km

DECEMBER 18
U.S.C.G.S.
21.3S, 174.2W
Tonga Islands
H = 22 24 49.8
h = 25 km
Penticton
eP 22 37 29

DECEMBER 19
H = 04 01 38
Mag 1.8
Penticton
iP_n 04 02 08.0
iS_n 04 02 31.8
D = 195 km

DECEMBER 19
Canadian Arctic
H = 06 19 41.6
Mag 2.5
Resolute
iP_1 06 20 04.7
iS_1 06 20 22.3
D = 144 km

DECEMBER 19
Penticton
eP 14 18 14

DECEMBER 19
U.S.C.G.S.
24.2N, 122.4E
Near coast of
Formosa
H = 17 30 09.7
h = 93 km
Mould Bay
P 17 41 35
Penticton
iP 17 43 00 d

DECEMBER 19
Mould Bay
P 18 44 28

DECEMBER 19
Penticton
eP 20 03 20

DECEMBER 19
Penticton
eP 22 04 54

DECEMBER 19
Penticton
eP 23 35 20

DECEMBER 20
Penticton
eP 07 06 32
Resolute
eP 07 06 36

DECEMBER 20
U.S.C.G.S.
4.6N, 75.6W
Colombia
H = 13 25 34.4
h = 176 km
Mag 6 3/4
Alberni
eP 13 35 31 d
Alert, N.W.T.
iP 13 37 14 d
Banff
iP 13 35 03 d
Halifax
eP 13 33 04 d?
Mould Bay
iP 13 37 00 d
Penticton
iP 13 35 11 d
Resolute
eP 13 36 33
Shawinigan Falls
iP 13 33 10 d
Victoria
iP 13 35 22 d

DECEMBER 20
Mould Bay
iP 18 01 27 d

DECEMBER 20
Penticton
eP 19 48 46

DECEMBER 20
Penticton
eP 23 08 14

DECEMBER 21
Resolute
e 19 37 09

DECEMBER 21
Canadian Arctic
H = 20 03 38.1
Mag 1.5
Resolute
eP_1 20 04 07
iS_1 20 04 29
D = 180 km

DECEMBER 21
Penticton
eP 21 03 32

DECEMBER 22
Penticton
eP 00 54 03

DECEMBER 22
Mould Bay
P 01 10 25
Local ?

DECEMBER 22
U.S.C.G.S.
40.7N, 126.0W
Off coast of
California
H = 11 26 45.2
h = 25 km
Mag 4.6
Penticton
eP 11 29 09
Resolute
eP 11 33 54

DECEMBER 22
U.S.C.G.S.
56.2N, 154.3W
Alaska
H = 14 58 33.4
h = 26 km
Alert, N.W.T.
iP 15 05 27 c
Mould Bay
P 15 03 48
Penticton
iP 15 03 26 c
Resolute
eP 15 04 32 c

DECEMBER 22
Mould Bay
P 15 47 08
Penticton
iP 15 44 45 d

DECEMBER 22
Penticton
eP 17 41 41

DECEMBER 22
H = 22 45 38
Mag 1.7
Penticton
iP_1 22 46 04.5
iS_1 22 46 24.3
D = 162 km

DECEMBER 22
Canadian Arctic
H = 22 55 46.0
Mag 2.7
Resolute
iP_1 22 56 09.5
iS_1 22 56 25.0
D = 127 km

DECEMBER 22
U.S.C.G.S.
18.6N, 145.6E
Mariana Islands
H = 22 46 24.6
h = 155 km
Alert, N.W.T.
iP 22 57 09
Mould Bay
P 22 57 40
Penticton
eP 22 58 15
Resolute
eP 22 58 16

DECEMBER 22
U.S.C.G.S.
16.4N, 120.4E
Near coast of Luzon,
Philippine Islands
H = 23 43 35.3
h = 33 km
Resolute
eP 23 56 15 ?
eP 23 56 22

DECEMBER 23
Penticton
eP 04 51 31

DECEMBER 23
U.S.C.G.S.
44.9N, 111.2W
Montana, U.S.A.
H = 06 53 36.5
h = 23 km
Banff
eP 06 55 19
Penticton
eP 06 55 23

DECEMBER 23
Resolute
eP? 07 09 06?

DECEMBER 23
Penticton
eP 08 46 55

DECEMBER 23
Resolute
eP 12 55 51

DOMINION OBSERVATORIES

DECEMBER 23
U.S.C.G.S.
6.4N, 73.4W
Colombia
H = 14 36 27.1
h = 197 km
Mould Bay
iP 14 47 40 c
Penticton
iP 14 46 01

DECEMBER 23
Resolute
eP 17 05 28
e 17 07 11

DECEMBER 23
U.S.C.G.S.
34.9N, 137.6E
Near coast of
Honshu Japan
H = 19 11 54.5
h = 270 km
Penticton
eP 19 22 51

DECEMBER 23
Penticton
eP 19 30 25

DECEMBER 24
Alert, N.W.T.
iP 02 09 41 c
Banff
eP 02 09 20
Mould Bay
P 02 07 35
Penticton
eP 02 09 21
Resolute
eP 02 08 47?
eP 02 08 52

DECEMBER 24
U.S.C.G.S.
3.4S, 140.3E
New Guinea
H = 02 40 07.6
h = 29 km
Mould Bay
P 02 53 32
Penticton
eP 02 53 49

DECEMBER 24
U.S.C.G.S.
43.8N, 143.9E
Near coast of
Hokkaido Japan
H = 06 50 48.4
h = 79 km
Alert, N.W.T.
iP 07 00 03
Mould Bay
P 06 59 36
Penticton
iP 07 01 04 c
Resolute
iP 07 00 20 c
i 07 00 51

DECEMBER 24
U.S.C.G.S.
29.5N, 80.9E
Nepal
H = 07 13 25.4
h = 20 km
Mould Bay
P 07 25 00
Resolute
eP 07 25 13

DECEMBER 24
Alert, N.W.T.
iP 07 30 17

DECEMBER 24
U.S.C.G.S.
20.4S, 173.6W
Tonga Islands
H = 09 19 02.7
h = 45 km
Penticton
eP 09 31 26

DECEMBER 24
U.S.C.G.S.
5.7S, 80.9W
Near coast of Peru
H = 14 25 32.7
h = 52 km
Alert, N.W.T.
iP 14 38 20
Mould Bay
P 14 38 03
Resolute
eP 14 37 41
Shawinigan Falls
eP 14 34 49

DECEMBER 24
Mould Bay
P 17 36 36

DECEMBER 24
Resolute
eP 20 33 24
i 20 33 33

DECEMBER 24
Penticton
eP 20 47 55

DECEMBER 24
Penticton
eP 22 11 07

DECEMBER 24
U.S.C.G.S.
38.3S, 74.6W
Near coast of
Chile
H = 23 43 19.2
h = 31 km
Shawinigan Falls
eP 23 55 50

DECEMBER 25
Penticton
eP 00 05 20

DECEMBER 25
U.S.C.G.S.
3.7S, 127.7E
Ceram
H = 08 00 59.3
h = 47 km
Mould Bay
P 08 14 39

DECEMBER 25
U.S.C.G.S.
1.1S, 126.7E
Spice Islands
H = 08 13 07.2
h = 25 km
Mould Bay
P 08 26 37
Resolute
eP? 08 27 04

DECEMBER 25
Penticton
eP 08 51 11

DECEMBER 25
U.S.C.G.S.
6.4N, 82.2W
South of Panama
H = 08 57 39.1
h = 77 km
Mould Bay
P 09 09 00
Penticton
eP 09 06 52

DECEMBER 25
U.S.C.G.S.
3.7S, 127.7E
Ceram Sea
H = 09 09 07.4
h = 54 km
Mould Bay
P 09 22 46
Resolute
eP? 09 23 14

DECEMBER 25
Penticton
iP 10 40 53

DECEMBER 25
U.S.C.G.S.
26.9N, 90.1E
Bhutan-India
border
H = 11 19 11.9
h = 46 km
Mould Bay
P 11 30 53

DECEMBER 25
48.0°N, 122.4°W
Washington, U.S.A.
H = 12 27 44
Mag 2.2
Penticton
eP_n 12 28 22.0
D = 254 km
Victoria
eP_1 12 28 00.6
eS_1 12 28 13.0
D = 102 km

DECEMBER 25
Penticton
eP 13 46 59

DECEMBER 25
U.S.C.G.S.
20.4S, 173.7W
Tonga Islands
H = 13 55 38.8
h = 64 km
Penticton
iP 14 08 05

DECEMBER 25
Mould Bay
P 14 29 28
Penticton
eP 14 29 49
Resolute
eP 14 30 21?
eP 14 30 35

DECEMBER 25
Mould Bay
P 17 12 21
Local ?

DECEMBER 25
63.0°N±1°,
92.0°W±1.5°
W.S.W. of Chesterfield
Inlet, N.W.T.
H = 19 58 28.5
Mag 5.1
Mould Bay
P_n 20 02 09
D = 1755 km
Penticton
e 20 03 21

Resolute
ePn 20 01 06
i 20 01 19 d
iSn 20 03 00
Lg 20 04 18
D = 1250 km
Shawinigan Falls
Pn 20 03 02.0
Sn 20 06 16.0
Lg 20 08 49.0
D = 2175 km

DECEMBER 25
U.S.C.G.S.
39.4N, 76.9E
China
H = 21 51 06.9
h = 167 km
Mould Bay
P 22 01 25
Penticton
eP 22 03 53

DECEMBER 26
U.S.C.G.S.
5.5S, 110.7E
Java Sea
H = 04 24 55.4
h = 566 km
Penticton
iP' 04 42 47 c
e 04 53 01
Resolute
eP'? 04 42 26
Shawinigan Falls
eP' 04 43 20

DECEMBER 26
Canadian Arctic
H = 05 21 25.5
Mag 3.0
Resolute
Pn 05 22 22
i 05 23 11
S1 05 23 24
D = 420 km

DECEMBER 26
U.S.C.G.S.
44.2S, 38.1E
Prince Edward
Islands region
H = 06 17 30.6
h = 22 km
Penticton
e 06 48 55
Resolute
eP'? 06 37 04
e 06 58 47

DECEMBER 26
Resolute
eP? 07 54 13
i 07 54 54
i 08 14 51

DECEMBER 26
Canadian Arctic
H = 14 54 09
Mag 4.5
Resolute
Pn 14 56 54
Sn 14 58 54
Lg 15 00 10
D = 1300 km

DECEMBER 26
Penticton
eP 22 47 58

DECEMBER 26
Penticton
eP 23 52 14

DECEMBER 27
Penticton
eP 00 21 58

DECEMBER 27
U.S.C.G.S.
22.3S, 67.6W
Chile-Bolivia border
H = 02 15 49.2
h = 47 km
Penticton
eP 02 28 24
Shawinigan Falls
eP 02 26 55

DECEMBER 27
Mould Bay
P 03 22 11

DECEMBER 27
Mould Bay
P 04 07 06
Resolute
eP? 04 06 47?

DECEMBER 27
Mould Bay
P 09 48 22
Penticton
eP 09 45 23

DECEMBER 27
Penticton
eP 10 55 24

DECEMBER 27
Resolute
eP 12 35 34

DECEMBER 27
U.S.C.G.S.
53.4N, 160.3E
Near coast of
Kamchatka
H = 15 19 15.8
h = 35 km
Resolute
eP 15 27 13

DECEMBER 27
Penticton
eP 15 44 33
Resolute
eP 15 46 47

DECEMBER 27
Penticton
eP 22 59 25

DECEMBER 27
U.S.C.G.S.
41.2S, 175.7E
Near coast of
New Zealand
H = 23 48 01.3
h = 57 km
Mag 6 3/4
Alert, N.W.T.
P' 24 07 17
Mould Bay
P' 24 06 56
Resolute
eP' 24 07 06
i 24 10 32
Shawinigan Falls
eP' 24 07 17

DECEMBER 28
Resolute
eP 00 17 37?

DECEMBER 28
Penticton
eP 00 59 39
e 01 06 35
Resolute
eP? 01 01 31
Shawinigan Falls
eP 00 58 17

DECEMBER 28
Penticton
eP 05 17 25
Resolute
eP 05 17 34?

DECEMBER 28
Resolute
eP 10 29 13

DECEMBER 28
Resolute
eP 22 44 45

DECEMBER 28
Penticton
eP 23 02 00

DECEMBER 28
U.S.C.G.S.
12.4S, 166.3E
Santa Cruz Islands
region
H = 23 55 57.6
h = 100 km
Penticton
eP 24 08 43
Shawinigan Falls
eP' 24 14 38

DECEMBER 29
Resolute
i 00 39 05
e 00 44 (41)

DECEMBER 29
Penticton
eP 02 01 09

DECEMBER 29
Mould Bay
iP 03 11 11
Local ?

DECEMBER 29
Penticton
eP 04 01 25

DECEMBER 29
Resolute
i 05 27 37

DECEMBER 29
U.S.C.G.S.
42.6N, 142.7E
Hokkaido Japan
H = 08 00 08.9
h = 43 km
Mould Bay
P 08 09 08
Penticton
eP 08 10 37
Resolute
eP 08 09 51 c

DECEMBER 29
U.S.C.G.S.
6.3S, 154.5E
Solomon Islands
H = 10 00 33.1
h = 44 km
Mould Bay
P 10 13 53

Penticton
iP 10 13 40

DECEMBER 29
Mould Bay
P 12 10 02

DECEMBER 29
Mould Bay
P 12 22 33

DECEMBER 29
Penticton
eP 13 57 26

DECEMBER 29
U.S.C.G.S.
13.6N, 92.4W
Off coast of
Guatemala
H = 14 53 12.3
h = 37 km
Mould Bay
eP 15 03 49 c
Penticton
eP 15 01 03
Resolute
eP 15 03 24
Shawinigan Falls
iP 15 00 21 d
Victoria
eP 15 01 11

DECEMBER 29
Penticton
iP 15 46 55

DECEMBER 29
Mould Bay
P 19 40 02

DECEMBER 29
Penticton
eP 20 47 33

DECEMBER 29
Penticton
eP 21 50 28

DECEMBER 29
Penticton
eP 21 54 48

DECEMBER 29
Penticton
eP 22 04 50

DECEMBER 29
Mould Bay
iP 22 43 59
Local ?

DECEMBER 30
U.S.C.G.S.
52.3N, 177.7E
Rat Islands
H = 00 39 24.1
h = 52 km
Mag 6 3/4
Alberni
eP 00 46 24
Alert, N.W.T.
iP 00 47 15 d
Banff
eP 00 47 03 c
Halifax
iP 00 50 37.5 d
Mould Bay
P? 00 46 55

Penticton
eP 00 46 46
Resolute
eP 00 46 58
Shawinigan Falls
eP 00 49 56
Victoria
eP 00 46 22

DECEMBER 30
Penticton
eP 01 18 41

DECEMBER 30
Mould Bay
P 07 07 30
Penticton
eP 07 04 46

DECEMBER 30
U.S.C.G.S.
39.7N, 77.7E
China
H = 07 08 29
h = 35 km
Alert, N.W.T.
P 07 18 12
Mould Bay
iP 07 19 03 c
Penticton
iP 07 21 31
Resolute
eP 07 19 15

DECEMBER 30
U.S.C.G.S.
51.9N, 177.6E
Rat Islands
H = 08 53 14.4
h = 67 km
Mould Bay
P 08 59 55
Penticton
eP 09 00 38

Shawinigan Falls
eP 09 03 51

DECEMBER 30
U.S.C.G.S.
22.9S, 175.2W
Tonga Islands
H = 08 59 31.7
h = 41 km
Penticton
iP 09 12 17

DECEMBER 30
U.S.C.G.S.
52.3N, 179.7E
Rat Islands
H = 09 17 21.1
h = 57 km
Mould Bay
P 09 23 55
Penticton
eP 09 24 36
Shawinigan Falls
eP 09 27 50

DECEMBER 30
U.S.C.G.S.
52.0N, 178.2E
Rat Islands
H = 10 14 37.2
h = 62 km
Alert, N.W.T.
P 10 22 29
Mould Bay
P 10 21 17
Penticton
eP 10 21 58
Resolute
eP? 10 22 13
e 10 31 14

DECEMBER 30
Mould Bay
P 10 54 36
Resolute
eP 10 55 15?

DECEMBER 30
Mould Bay
iP 11 46 02 c
Penticton
eP 11 46 09
Resolute
eP 11 46 52
i 11 49 45
Shawinigan Falls
eP 11 49 45

DECEMBER 30
Mould Bay
P 12 25 01
Local ?

DECEMBER 30
Mould Bay
iP 15 26 19 c
Penticton
eP 15 26 09

DECEMBER 30
Mould Bay
P 15 35 21
Penticton
eP 15 35 57

DECEMBER 30
U.S.C.G.S.
51.7N, 178.5E
Rat Islands
H = 16 41 51.5
h = 63 km
Alert, N.W.T.
P 16 49 45
Mould Bay
P 16 48 35
Penticton
eP 16 49 17
Resolute
eP 16 49 27
S? 16 55 37
L 16 58 26
i 17 02 41
Shawinigan Falls
eP 16 52 29

DECEMBER 30
U.S.C.G.S.
8.7N, 126.3E
Near coast of
Mindanao,
Philippine Islands
H = 18 18 32.6
h = 119 km
Mould Bay
P 18 31 13
Resolute
eP 18 31 40

DECEMBER 30
Penticton
eP 19 16 07

DECEMBER 30
Mould Bay
P 22 27 31
Local ?

DECEMBER 30
U.S.C.G.S.
16.5N, 46.6W
North Atlantic Ocean
H = 23 20 16.9
h = 32 km
Banff
eP 23 30 51
Mould Bay
P 23 31 29
Penticton
iP 23 31 08 c

DOMINION OBSERVATORIES

Resolute
e 23 30 51 ?

DECEMBER 31
Penticton
eP 06 46 47

DECEMBER 31
Penticton
eP 08 26 03

DECEMBER 31
Penticton
eP 13 17 18
Victoria
eP 13 17 19.3

DECEMBER 31
Penticton
eP 13 53 57

DECEMBER 31
U.S.C.G.S.
1.6N, 127.3E
Halmahera
H = 13 46 01.8
h = 140 km
Mould Bay
iP 13 59 04 c
Penticton
eP' 14 03 25
Resolute
eP 13 59 31 c

DECEMBER 31
Mould Bay
P 16 01 27
Penticton
eP 16 02 10
Resolute
eP 16 02 20
S? 16 08 30
G 16 11 24

DECEMBER 31
U.S.C.G.S.
44.4N, 100.5W
South Dakota, U.S.A.
H = 16 35 58.7
h = 16 km
Banff
eP 16 38 54
Penticton
eP 16 39 18
Victoria
eP 16 39 51

DECEMBER 31
Resolute
eP? 16 48 (07)
i 16 50 49
i 16 51 38

DECEMBER 31
Mould Bay
P 16 52 21

DECEMBER 31
U.S.C.G.S.
51.8N, 171.2W
Fox Islands
H = 17 48 27.8
h = 47 km
Mould Bay
P 17 54 49
Resolute
eP 17 55 39
e 18 14 11

DECEMBER 31
U.S.C.G.S.
18.2N, 105.8W
Off coast of
Mexico
H = 18 04 25.4
h = 32 km
Mould Bay
P 18 14 22
Shawinigan Falls
eP 18 11 59

DECEMBER 31
Penticton
eP 19 10 57

DECEMBER 31
Penticton
eP 19 59 21

DECEMBER 31
Canadian Arctic
H = 20 11 15
Mag 3.5
Resolute
P_n 20 12 43
S_n 20 13 47
D = 675 km

DECEMBER 31
Penticton
eP 21 44 23

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN THE CANADIAN ARCTIC

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

OCTOBER 4 at 04 33 42 U.T. Magnitude 3.1. Originated 44 km from Resolute, N.W.T., at a depth of about 20 km.

OCTOBER 5 at 06 33 40 U.T. Magnitude 2.1. Originated 66 km from Resolute, N.W.T.

OCTOBER 11 at 19 47 17 ? U.T. Magnitude 3.1. Originated 123 km from Resolute, N.W.T.

OCTOBER 11 at 23 58 46 U.T. Magnitude 2.3. Originated 123 km from Resolute, N.W.T. Possibly an aftershock of the preceding earthquake.

OCTOBER 14 at 18 18 20 U.T. Magnitude 4.8. Originated 1200 km from Resolute, N.W.T.

OCTOBER 16 at 17 54 12 U.T. Magnitude 4.0. Originated 740 km from Resolute, N.W.T.

OCTOBER 31 at 18 18 09 U.T. Magnitude 1.6. Originated 221 km from Resolute, N.W.T.

NOVEMBER 1 at approximately 21 hrs. U.T. Magnitude 2.4. Originated 230 km from Alert, N.W.T.

NOVEMBER 3 at 00 27 07 U.T. Magnitude 2.4. Originated 230 km from Alert, N.W.T.

NOVEMBER 4 at 10 44 21 U.T. Magnitude 1.3. Originated 82 km from Resolute, N.W.T.

NOVEMBER 9 at 16 34 19 U.T. Magnitude 2.4. Originated 92 km from Resolute, N.W.T.

NOVEMBER 10 at 05 32 24 U.T. Magnitude 3.4. Originated 450 km from Resolute, N.W.T.

NOVEMBER 10 at 19 23 34 U.T. Magnitude 3.9. Originated 382 km from Resolute, N.W.T., at a depth of about 27 km.

NOVEMBER 10 at 22 43 29 U.T. Magnitude 5.5. Epicentre 62.5°N$^{\pm}$ 1.0°, 124.4°W$^{\pm}$ 1.5°. About 110 miles W.N.W. of Fort Simpson, Mackenzie, N.W.T.

NOVEMBER 11 at 02 11 50 U.T. Magnitude 3.9. Originated 382 km from Resolute, N.W.T., at a depth of about 27 km. Believed to be an aftershock of the earthquake on November 10 at 19 23 34 U.T.

NOVEMBER 22 at 19 56 21 U.T. Magnitude 4.0. Epicentre 80.0°N± 0.4°, 111.7°W± 1.5°. Queen Elizabeth Islands region about 100 miles north of Borden Island, N.W.T.

NOVEMBER 26 at 19 07 38 U.T. Magnitude 2.0. Originated 275 km from Resolute, N.W.T.

NOVEMBER 30 at 08 41 08 U.T. Magnitude 2.0. Originated 62 km from Resolute, N.W.T.

DECEMBER 6 Mould Bay iP 09 41 47 c appears local.

DECEMBER 8 Mould Bay iP 11 20 42 Local?

DECEMBER 9 Mould Bay P 04 42 13 Local?

DECEMBER 10 Mould Bay P 04 06 03 Local?

DECEMBER 10 Mould Bay P 06 41 53 Local?

DECEMBER 11 Mould Bay P 09 34 46 Local?

DECEMBER 11 Mould Bay iP 19 20 18 Local?

DECEMBER 12 Mould Bay iP 10 34 52 Local?

DECEMBER 12 Mould Bay iP 14 18 15 Local?

DECEMBER 15 Mould Bay P 18 20 29 Local?

DECEMBER 16 Mould Bay P 02 22 14 Local?

DECEMBER 16 Mould Bay P 04 21 55 Local?

DECEMBER 16 Mould Bay P 08 38 28 Local?

DECEMBER 16 Mould Bay P 14 32 10 Local?

DECEMBER 16 Mould Bay P 17 12 27 Local?

DECEMBER 17 Mould Bay P 00 36 46 Local?

DECEMBER 17 at 09 24 42.5 U.T. Magnitude 2.4. Originated 216 km from Resolute, N.W.T.

DECEMBER 17 Mould Bay P 14 42 28 Local?

DECEMBER 18 Mould Bay P 15 52 12 Local?

DECEMBER 18 Mould Bay P 20 39 30 Local?

DECEMBER 19 at 06 19 42 U.T. Magnitude 2.5. Originated 144 km from Resolute, N.W.T.

DECEMBER 21 at 20 03 38.1 U.T. Magnitude 1.5. Originated 180 km from Resolute, N.W.T.

DECEMBER 22 Mould Bay P 01 10 25 Local?

DECEMBER 22 at 22 55 46 U.T. Magnitude 2.7. Originated 127 km from Resolute, N.W.T.

DECEMBER 25 Mould Bay P 17 12 21 Local ?

DECEMBER 25 at 19 58 29 U.T. Magnitude 5.1. Epicentre 63.0°N ±1°, 92.0°W±1.5°. About 50 miles WSW of Chesterfield Inlet, N.W.T.

DECEMBER 26 at 05 21 26 U.T. Magnitude 3.0. Originated 420 km from Resolute, N.W.T.

DECEMBER 26 at 14 54 09 U.T. Magnitude 4.5. Originated 1300 km from Resolute, N.W.T.

DECEMBER 29 Mould Bay P 03 11 11 Local?

DECEMBER 29 Mould Bay P 22 43 59 Local?

DECEMBER 30 Mould Bay P 12 25 01 Local?

DECEMBER 31 at 20 11 15 U.T. Magnitude 3.5. Originated 675 km from Resolute, N.W.T.

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

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

OCTOBER 7 at 22 36 51 U.T. Magnitude 3.8. Epicentre 48°40'N±12', 76°35'W±12'. Depth about 8 km. About 40 miles ENE of Senneterre, Que.

OCTOBER 31 at 23 50 U.T. Magnitude less than 1.7. 46°06'N, 64°47'W (Moncton, N.B.). This shock was felt by quite a number of people in Moncton, N.B. It was not recorded at Halifax 200 km distant, from which it is inferred that the magnitude was below 1.7. However radio station CKCW at Moncton was reported to have received hundreds of calls.

NOVEMBER 1 at 03 41 21 U.T. Magnitude 2.9. 46°55'N±15', 79°15' W±15'. Near Tee Lake, 17 miles NW of Timiskaming, Ont. Felt in the epicentral area. Mr. Wm. Irwin mayor of Timiskaming, forwarded felt reports from the area. These were greatly appreciated as they made it possible to determine the epicentre which was close to that of the large earthquake in the same region November 1, 1935.

DECEMBER 14 at 01 49 35 U.T. Magnitude 3.9. Epicentre 43°50'N ±18', 67°49'W±18'. Depth about 25 km. In the Atlantic Ocean about 40 miles off the New England coast and 85 miles due west of Yarmouth, N.S.

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the fourth quarter of 1961. The times of observed phases are given at their respective chronological positions in the text of this bulletin. In some cases, although they are not included in the text, readings from Hungry Horse, in Montana, U.S.A., and Seattle, Wash., U.S.A., were used to compute epicentres. 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.

OCTOBER 1 at 11 39 39. Magnitude 2. 87 km from Penticton.

OCTOBER 2 at 12 52 26. Magnitude 2.0. Epicentre at 49.7°N, 118.6°W, between Okanagan Lake and Lower Arrow Lake.

OCTOBER 2 at 23 31 27. Magnitude less than 2. 151 km from Penticton.

OCTOBER 3 at 17 34 05.5. Magnitude 2.1. 252 km from Penticton.

OCTOBER 3 at 21 49 28. Magnitude 1.6. 68 km from Penticton.

OCTOBER 4 at 19 42 37. Magnitude 1.9. 147 km from Penticton.

OCTOBER 4 at 23 43 42. Magnitude 2.0. 236 km from Penticton.

OCTOBER 5 at 01 10 30. Magnitude 2.6. 288 km from Penticton.

OCTOBER 8 at 00 01 27. Magnitude 1.9. 152 km from Penticton.

OCTOBER 9 at 23 52 49. Magnitude 1.9. 205 km from Penticton.

OCTOBER 11 at 22 20 55. Magnitude 2.3. 326 km from Penticton.

OCTOBER 12 at 19 27 43. Magnitude 1.9. 160 km from Penticton.

OCTOBER 12 at 23 50 54. Magnitude 2.2. 167 km from Penticton.

OCTOBER 13 at 16 33 37. Magnitude 2.1. 184 km from Penticton.

OCTOBER 13 at 21 24 57. Magnitude 1.6. 167 km from Penticton.

OCTOBER 14 at 19 57 45. Magnitude 1.5. 139 km from Penticton.

OCTOBER 15 at 04 53 13. Magnitude 2.7. Epicentre at 47°12'N, 123°14'W, which is west of Puget Sound near Sheldon, Wash.

OCTOBER 16 at 12 34 46. Magnitude 2.5. 92 km from Victoria.

OCTOBER 17 at 19 38 50. Magnitude 1.8. 165 km from Penticton.

OCTOBER 18 at 13 45 59. Magnitude 2.2. Mount Baker area.

OCTOBER 18 at 21 32 57. Magnitude 2.0. 152 km from Penticton.

OCTOBER 18 at 21 47 23. Magnitude 2.2. 159 km from Penticton.

OCTOBER 18 at 23 56 59. Magnitude 1.9. 171 km from Penticton.

OCTOBER 19 at 19 03 46. Magnitude 1.7. 159 km from Penticton.

OCTOBER 19 at 19 34 43. Magnitude 2.0. 140 km from Penticton.

OCTOBER 19 at 20 37 50. Magnitude 3.0. Epicentre at 47.5°N, 122.9°W, in the Olympic Mountains, southwest of Seattle, Wash, U.S.A. Felt.

OCTOBER 20 at 23 53 51. Magnitude 1.9. 165 km from Penticton.

OCTOBER 22 at 10 36 58. Magnitude 2.1. 77 km from Victoria, and 230 km from Penticton.

OCTOBER 25 at 20 12 16. Magnitude 1.4. 80 km from Penticton.

OCTOBER 27 at 00 55 20. Magnitude 2.0. 150 km from Penticton.

OCTOBER 27 at 19 52 11. Magnitude 1.4. 68 km from Penticton.

OCTOBER 27 at 19 55 03. Magnitude 2.2. 147 km from Penticton.

OCTOBER 27 at 23 37 46. Magnitude 2.0. 195 km from Penticton.

OCTOBER 28 at 00 14 34. Magnitude 2.1. 198 km from Penticton

OCTOBER 28 at 00 17 37. Magnitude 1.8. 193 km from Penticton.

OCTOBER 28 at 22 37 18. Magnitude 1.6. 123 km from Penticton.

OCTOBER 29 at 09 12 15.7. Magnitude 4.8. Epicentre at 49.0°N, 128.7°W, west of Vancouver Island.

OCTOBER 29 at 11 10 22? Aftershock of previous.

OCTOBER 29 at 11 17 00 Aftershock of previous.

OCTOBER 29 at 14 00 12.0. Magnitude 3.2. Epicentre at 49.4°N, 127.6°W, west of Vancouver Island.

OCTOBER 29 at 14 47 18.3. Magnitude 3.8. Epicentre at 48.7°N, 128.3°W, west of Vancouver Island.

The following are considered to be aftershocks of the previous series of earthquakes:

OCTOBER 29 at 18 28; 19 29.

OCTOBER 30 at 01 45; 02 17.

OCTOBER 31 at 03 34 30.3. Magnitude 3.0. 111 km from Penticton.

OCTOBER 31 at 23 24 44. Magnitude 2.2. 146 km from Penticton.

NOVEMBER 1 at 21 24 36. Magnitude 2.3. 254 km from Penticton.

NOVEMBER 1 at 22 15 25. Magnitude 1.7. 102 km from Penticton.

NOVEMBER 2 at 20 55 41. Magnitude 1.9. 148 km from Penticton.

NOVEMBER 2 at 22 42 59. Magnitude 1.6. 147 km from Penticton.

NOVEMBER 4 at 23 22 48. Magnitude 2.4. 206 km from Penticton.

NOVEMBER 5 at 07 52 22. Magnitude 1.8. 52 km from Victoria.

NOVEMBER 6 at 19 49 04. Magnitude 2.3. 150 km from Penticton.

NOVEMBER 6 at 22 21 27. Magnitude 1.7. 33 km from Banff.

NOVEMBER 8 at 00 38 07. Magnitude 2.0. 156 km from Penticton.

NOVEMBER 8 at 19 05 12. Magnitude 1.6. 82 km from Penticton.

NOVEMBER 8 at 20 58 35. Magnitude 2.5. 216 km from Penticton.

NOVEMBER 9 at 18 22 17. Magnitude 2.2. 156 km from Penticton.

NOVEMBER 9 at 22 28 50. Magnitude 2.1. 162 km from Penticton.

NOVEMBER 10 at 22 32 45. Magnitude 2.5. 194 km from Penticton.

NOVEMBER 11 at 01 59 04. Magnitude 1.7. 64 km from Penticton.

NOVEMBER 11 at 15 22 28. Magnitude 2.3. 199 km from Penticton.

NOVEMBER 12 at 17 51 10. Magnitude 2.1. Epicentre on southern Vancouver Island.

NOVEMBER 13 at 23 53 21. Magnitude 2.5. 189 km from Penticton.

NOVEMBER 14 at 21 31 02. Magnitude 2.0. 173 km from Penticton.

NOVEMBER 14 at 23 05 54. Magnitude 2.4. 162 km from Penticton.

NOVEMBER 14 at 23 17 12. Magnitude 2.5. 290 km from Penticton.

NOVEMBER 14 at 23 25 31. Magnitude 1.8. 157 km from Penticton.

NOVEMBER 15 at 06 47 09. Magnitude 2.2. 47.9°N, 123.2°W. Epicentre in Olympic Mountains, Wash., U.S.A.

NOVEMBER 15 at 17 27 07. Magnitude 2.2. Epicentre at 48°52'N, 121°53'W, in the Mount Baker area, Wash., U.S.A.

NOVEMBER 16 at 22 53 17. Magnitude 1.5. 100 km from Penticton.

NOVEMBER 18 at 23 11 27. Magnitude 2.5. Epicentre is probably southwest of Victoria.

NOVEMBER 20 at 19 45 10. Magnitude 2.0. 160 km from Penticton.

NOVEMBER 21 at 01 49 13. Magnitude 2.1. 53 km from Alberni.

NOVEMBER 21 at 21 25 30. Magnitude 2.5. 275 km from Penticton.

NOVEMBER 22 at 16 40 12. Magnitude 2.1. 147 km from Penticton.

NOVEMBER 23 at 19 53 29. Magnitude 2.2. 161 km from Penticton.

NOVEMBER 24 at 00 57 20. Magnitude 2.5. 98 km from Alberni.

NOVEMBER 26 at 00 01 33. Magnitude 2.2. Epicentre is probably under northern Strait of Georgia.

NOVEMBER 27 at 04 00 57. Magnitude 2.2. 72 km from Alberni.

NOVEMBER 27 at 19 48 39. Magnitude 2.0. 149 km from Penticton.

NOVEMBER 28 at 03 07 56. Magnitude 2.5. Epicentre at 47.1°N, 122.5°W, in the Puget Sound basin, Wash., U.S.A.

NOVEMBER 28 at 05 19 20. Magnitude 1.9. 265 km from Victoria.

NOVEMBER 28 at 20 42 00. Magnitude 1.9. 52 km from Alberni.

NOVEMBER 28 at 23 24 28. Magnitude 1.7. 62 km from Alberni.

NOVEMBER 28 at 23 45 05. Magnitude 1.6. 56 km from Alberni.

NOVEMBER 30 at 08 12 50. Magnitude 3.1. Epicentre at 47.2°N, 122.1°W, east of Seattle, Wash., U.S.A.

DECEMBER 1 at 19 59 20. Magnitude 1.9. 164 km from Penticton.

DECEMBER 2 at 00 18 39. Magntiude 2.4. 177 km from Penticton.

DECEMBER 5 at 00 52 31. Magnitude 2.0. 54 km from Alberni.

DECEMBER 5 at 03 13 49. Magnitude 2.9. 307 km from Penticton.

DECEMBER 5 at 22 55 48. Magnitude 1.4. 38 km from Penticton.

DECEMBER 5 at 23 11 48. Magnitude 1.7. 67 km from Penticton.

DECEMBER 6 at 07 45 22. Magnitude 2.1. Epicentre at 47.1°N, 121.7°W, east of Seattle, Wash., U.S.A.

DECEMBER 6 at 22 52 28. Magnitude 2.2. 162 km from Penticton.

DECEMBER 11 at 20 36 09. Magnitude 1.9. 176 km from Penticton.

DECEMBER 14 at 20 45 49. Magnitude 2.0. Epicentre at 48.9°N, 125.4°W, in Barkley Sound.

DECEMBER 16 at 17 24 29. Magnitude 2.0. 196 km from Penticton.

DECEMBER 16 at 18 25 08. Magnitude 2.0. 189 km from Penticton.

DECEMBER 16 at 23 38 07. Magnitude 1.8. 156 km from Penticton.

DECEMBER 18 at 07 15 58. Magnitude 3.0. Epicentre at 48.7°N, 128.0°W, west of Vancouver Island.

DECEMBER 18 at 22 08 36. Magnitude 2.7. Epicentre at 48°50'N, 122°48'W, northwest of Bellingham, Wash., U.S.A.

DECEMBER 19 at 04 01 38. Magnitude 1.8. 195 km from Penticton.

DECEMBER 22 at 22 45 38. Magnitude 1.7. 162 km from Penticton.

DECEMBER 25 at 12 27 44. Magnitude 2.2. Epicentre at 48.0°N, 122.4°W, near Whidbey Island, Wash., U.S.A.

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