SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

Seismological Bulletin
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Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

SEISMOLOGICAL BULLETIN - 1960

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

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

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

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.

Resolute, Northwest Territories -
Owned and operated by the Dominion Observatory.
R. Bourgoin in charge.

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

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

Saskatoon, Saskatchewan -
Operated by the University of Saskatchewan for the Dominion Observatory.

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

Horseshoe Bay, British Columbia -
Owned and operated by the Dominion Observatory.
W. S. Blacklock in charge.

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

Lillooet, British Columbia -
Owned and operated by the Dominion Observatory.
R. Roschard in charge.

Penticton -
Owned and operated by the Dominion Observatory.

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.

SEISMOLOGICAL BULLETIN - 1960

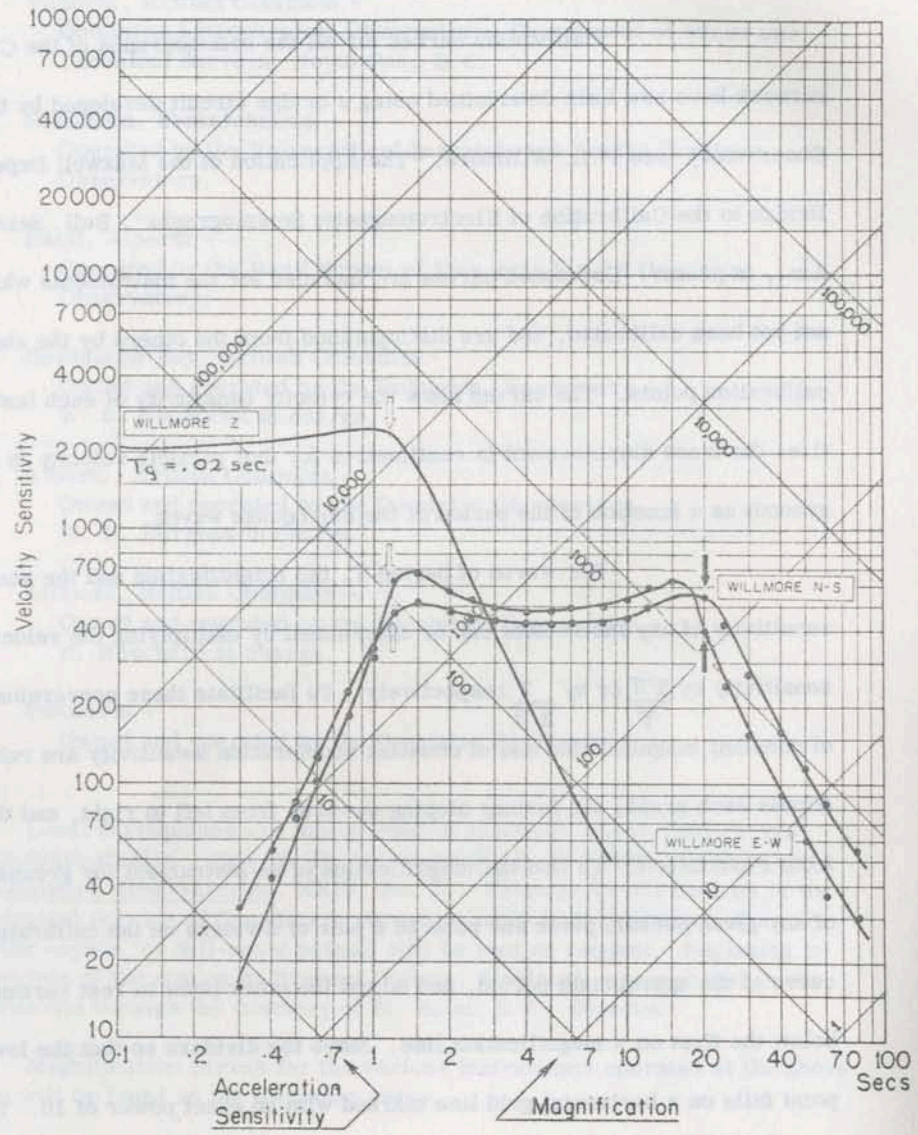
Explanation of Calibration Curves

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 Impedence 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

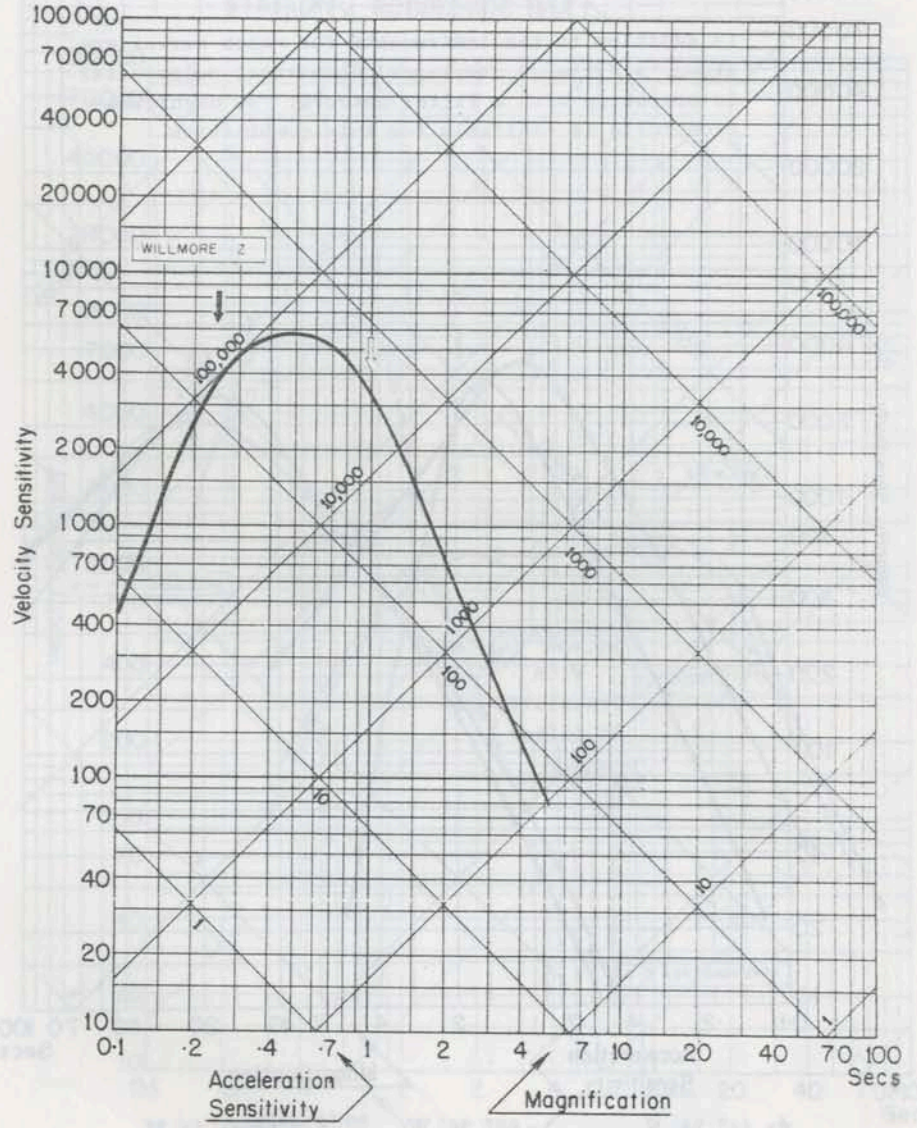
T_s ⇧ T_g ⇧

Date of Calibration: July 9 1957

Read from start of minute mark.

CALIBRATION CURVES

STATION: BANFF



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

Foundation : Bedrock

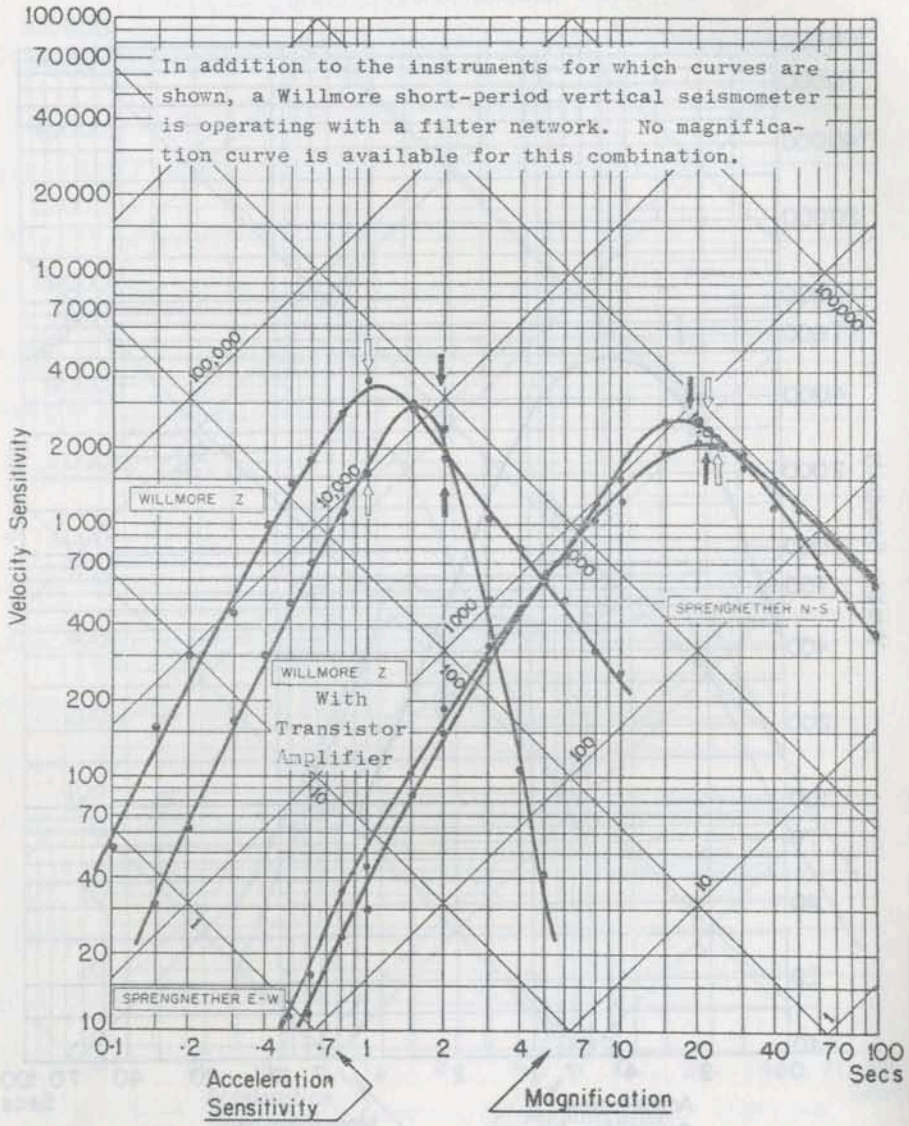
T_s ⇧ T_g ⇧

Date of Calibration: Estimated September 1959

Read from start of minute mark.

CALIBRATION CURVES

STATION: HALIFAX



ϕ = 44° 38' N λ = 68° 36' W Altitude 56 M

Foundation : Carbonaceous slate

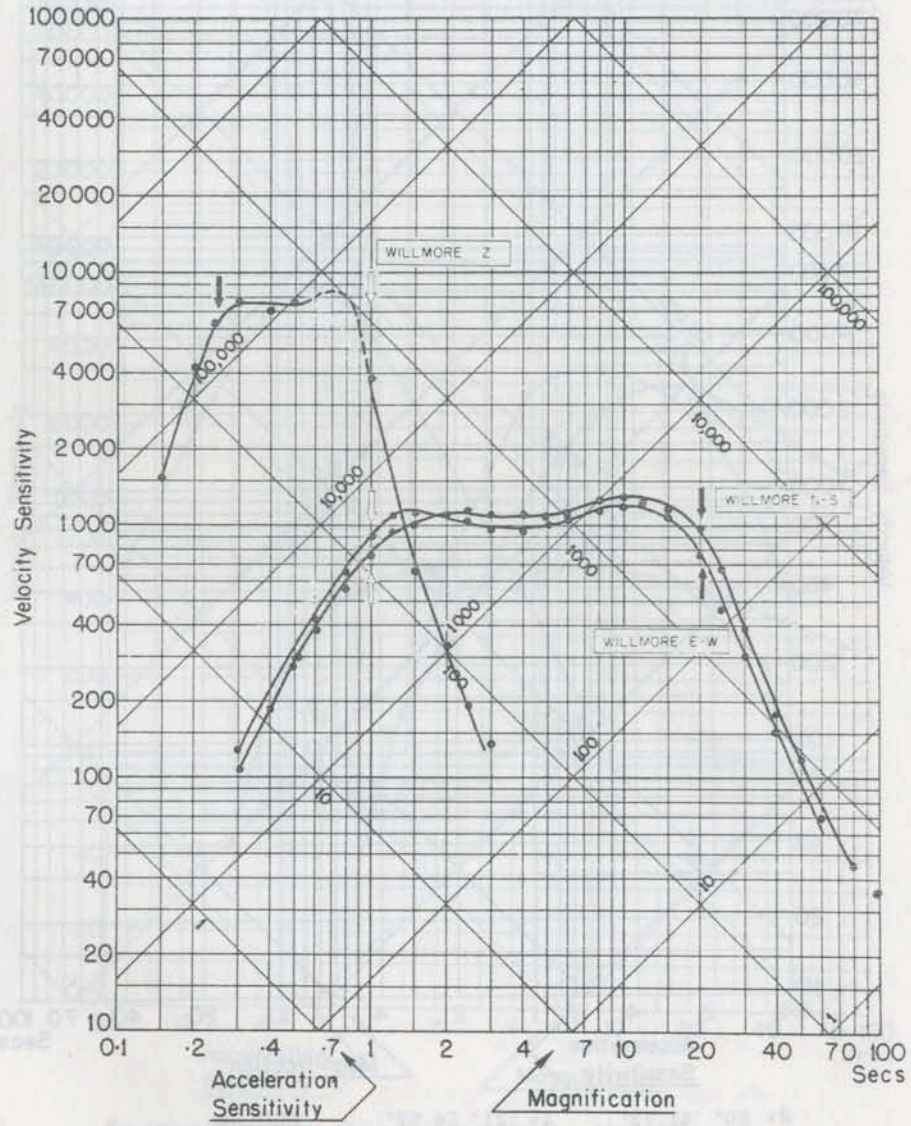
T_s ⇧ T_g ⇧

Date of Calibration: October, 1959

Read from end of minute mark.

CALIBRATION CURVES

STATION: HORSESHOE BAY



ϕ = 49° 22'39"N λ = 123° 16'33"W Altitude

Foundation : Quartz diorite

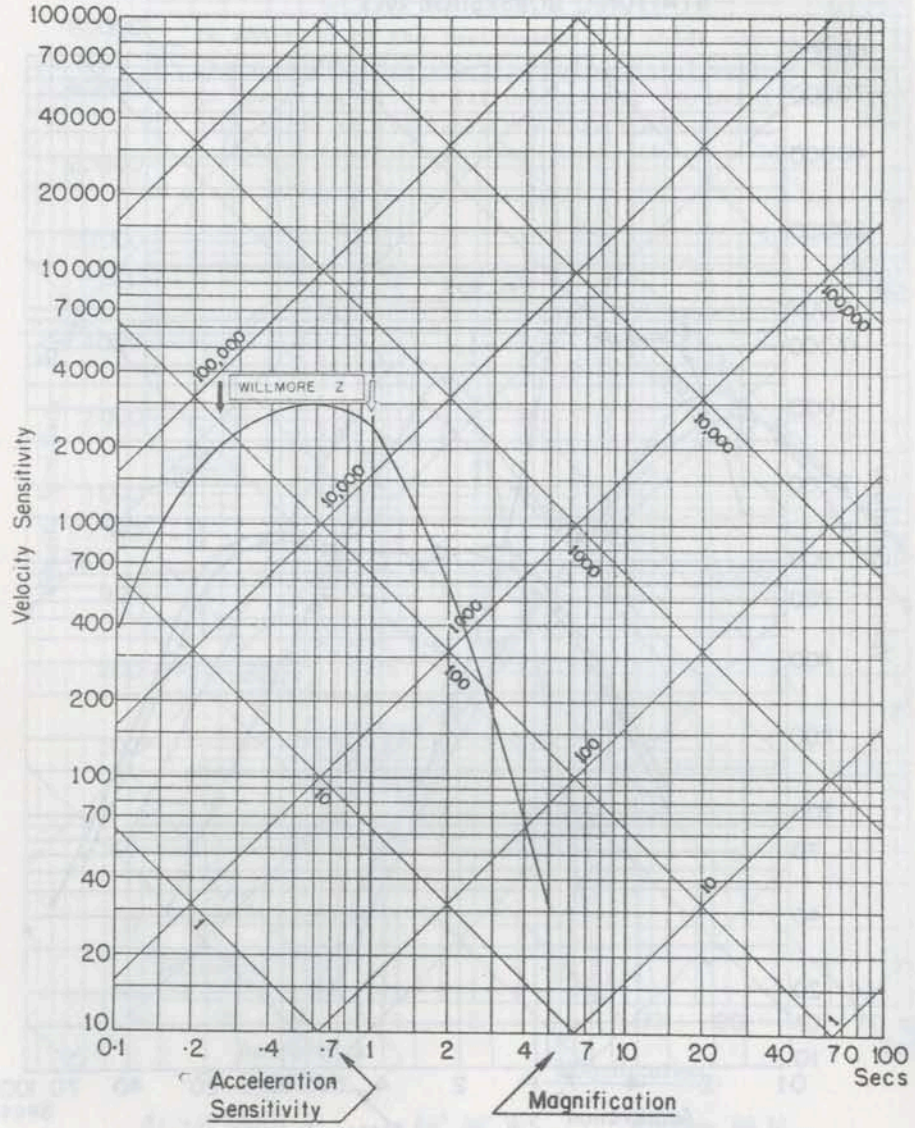
T_s ⇧ T_g ⇧

Date of Calibration: July 17 1957

Read from start of minute mark.

CALIBRATION CURVES

STATION: LILLOOET



ϕ = 50° 41.73' λ = 121° 54.97' Altitude

Foundation : Shallow overburden on acid intrusives

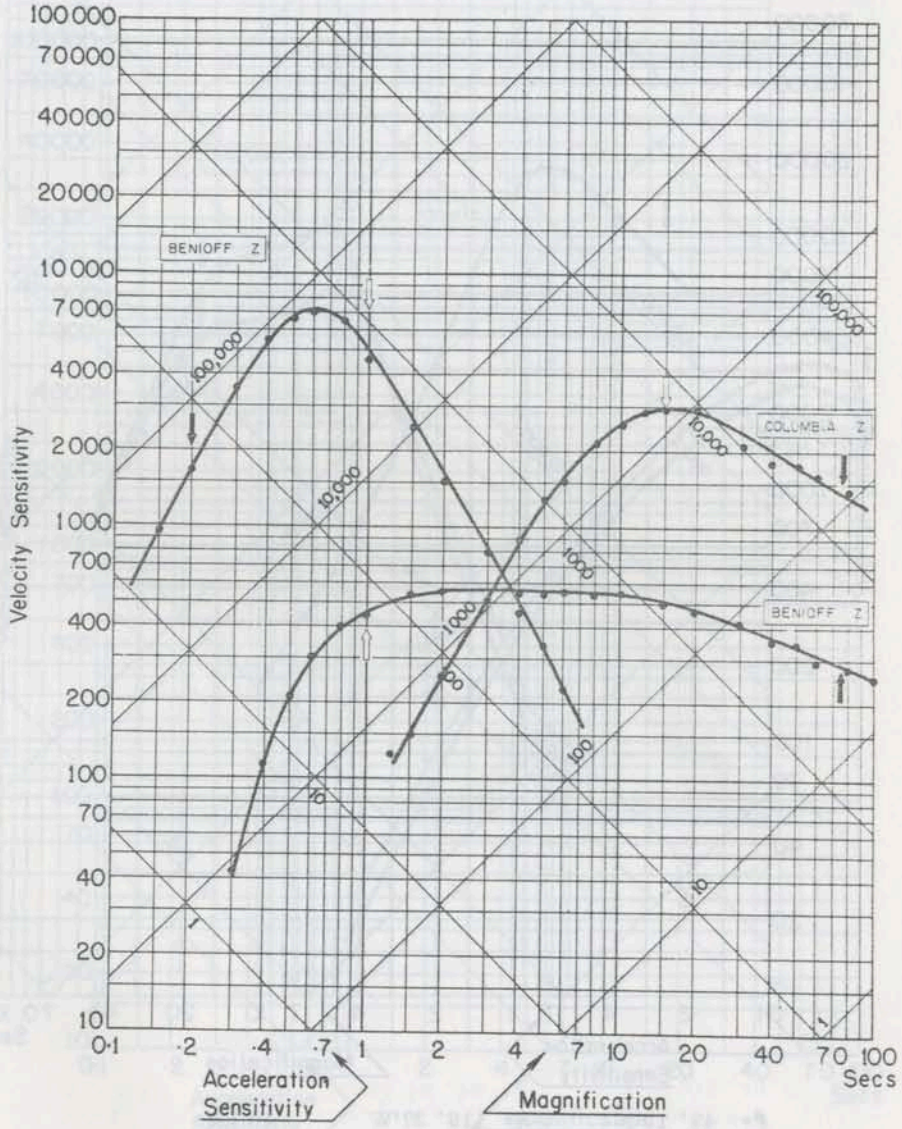
T_s ⇧ T_g ⇧

Date of Calibration: Estimated

Read from start of minute mark.

CALIBRATION CURVES

STATION: OTTAWA



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

Foundation : Boulder clay on limestone

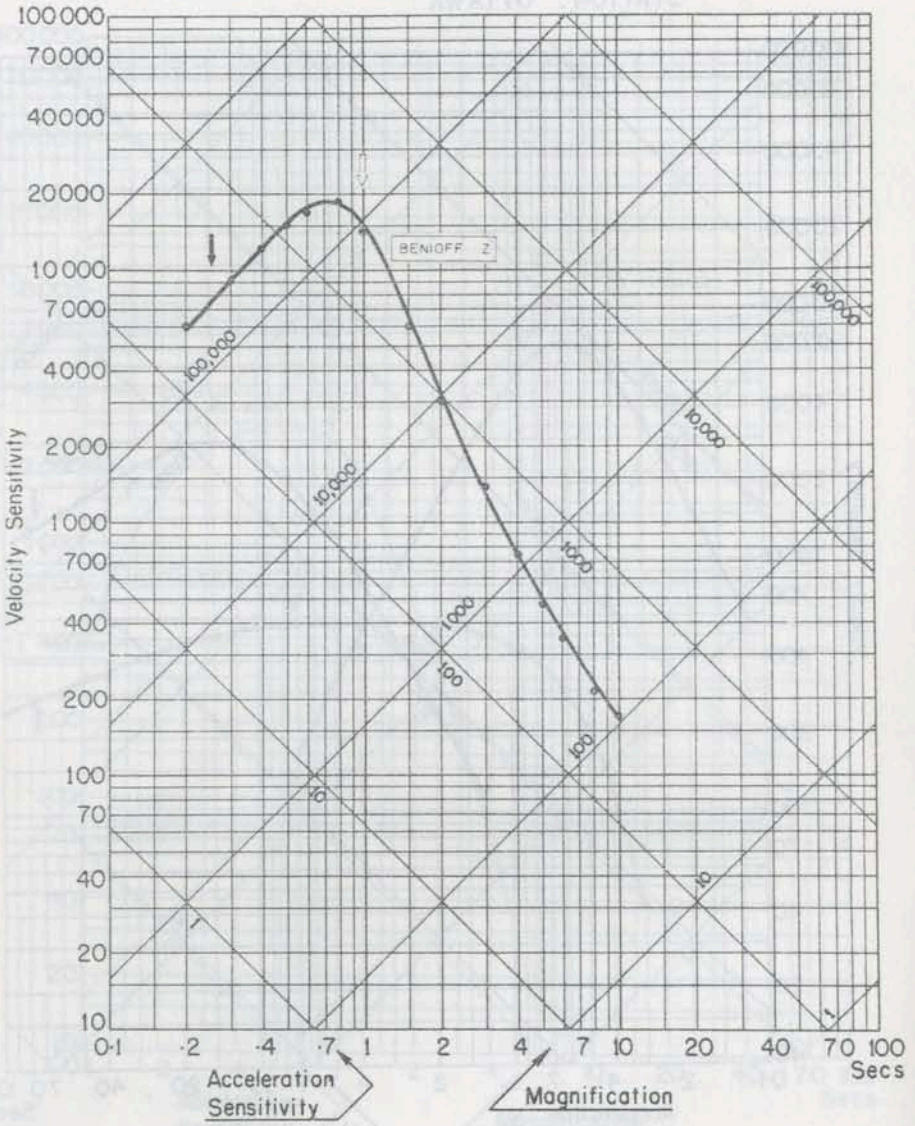
T_s ⇧ T_g ⇧

Date of Calibration: May 28, 1958

Read from end of minute mark.

CALIBRATION CURVES

STATION : PENTICTON



ϕ = 49° 19'N λ = 119° 37'W Altitude

Foundation :

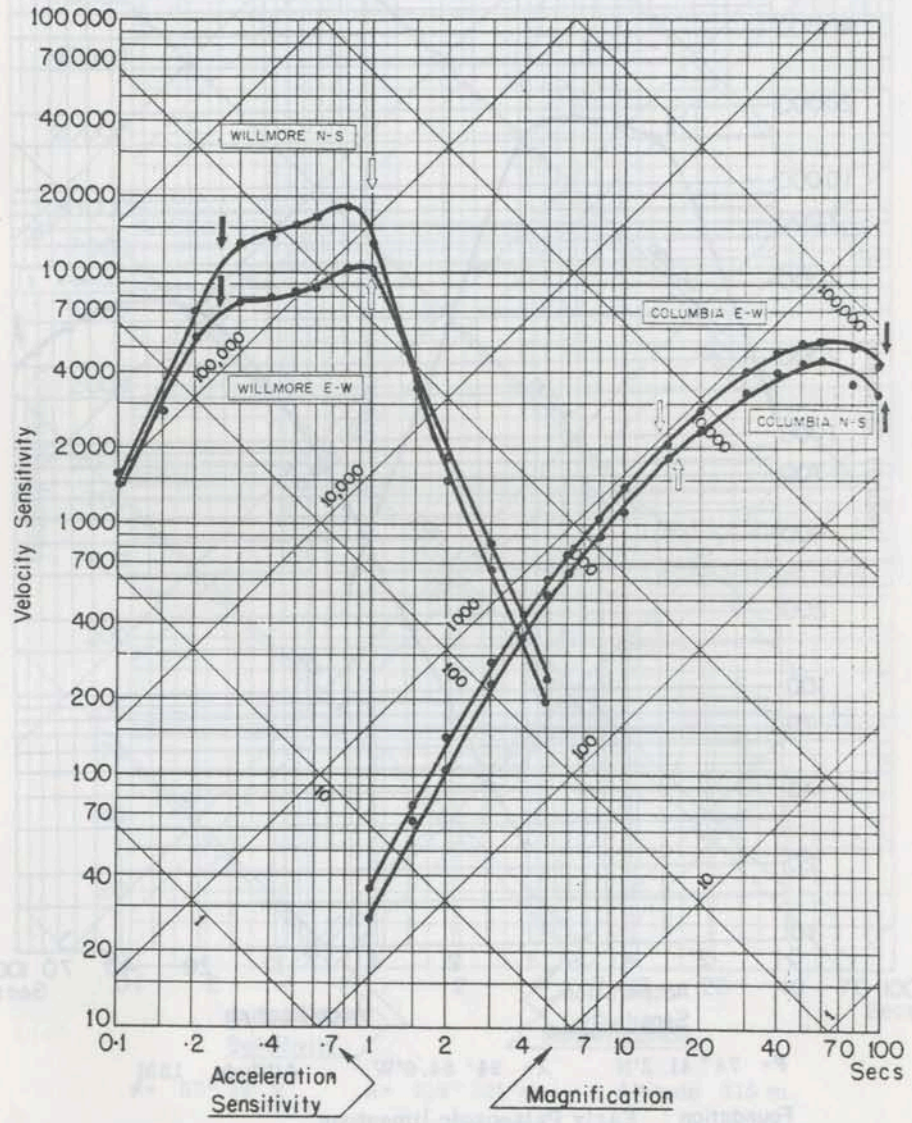
T_s ⇑ T_g ⇑

Date of Calibration: Estimated

Read from start of minute mark.

CALIBRATION CURVES

STATION : RESOLUTE HORIZONTALS



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

Foundation : Early Palaeozoic limestone

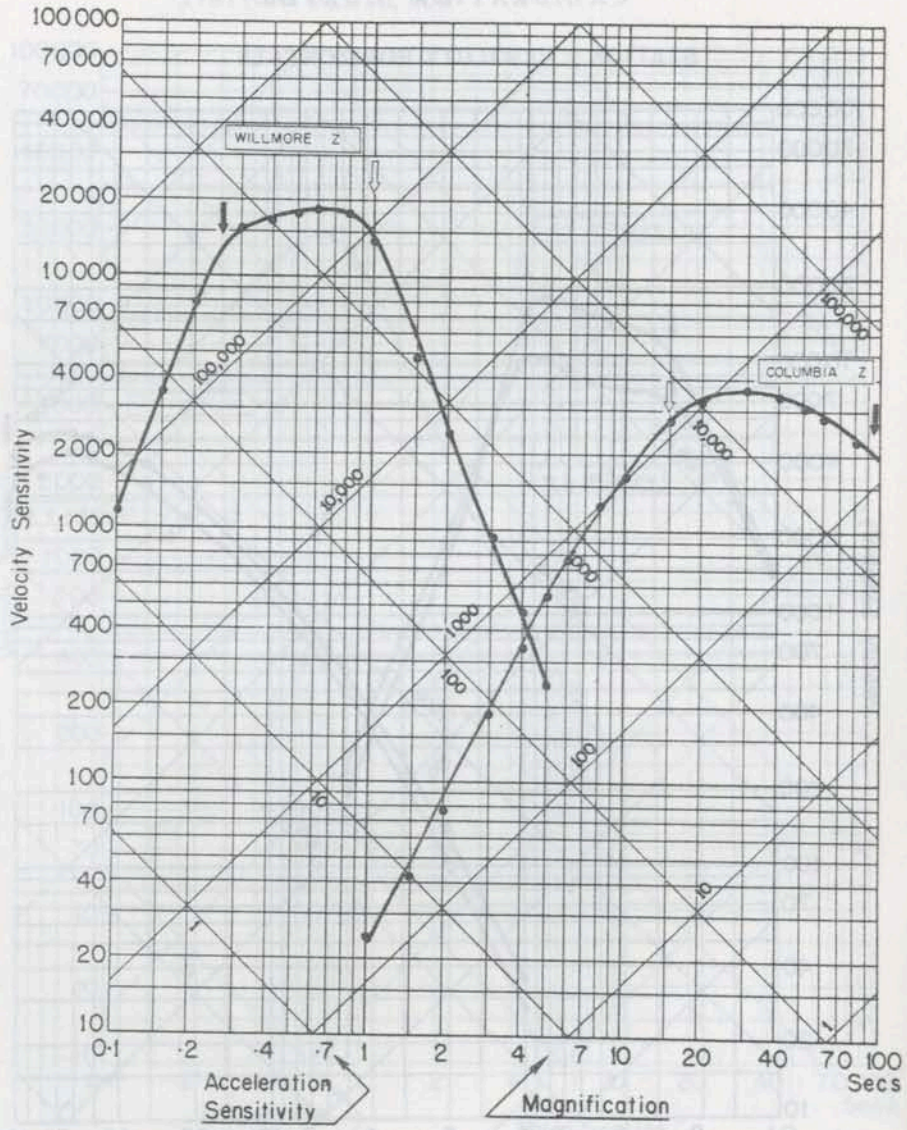
T_s ⇑ T_g ⇑

Date of Calibration: September 1958

Read from end of minute mark.

CALIBRATION CURVES

STATION: RESOLUTE VERTICALS



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

Foundation : Early Palaeozoic limestone

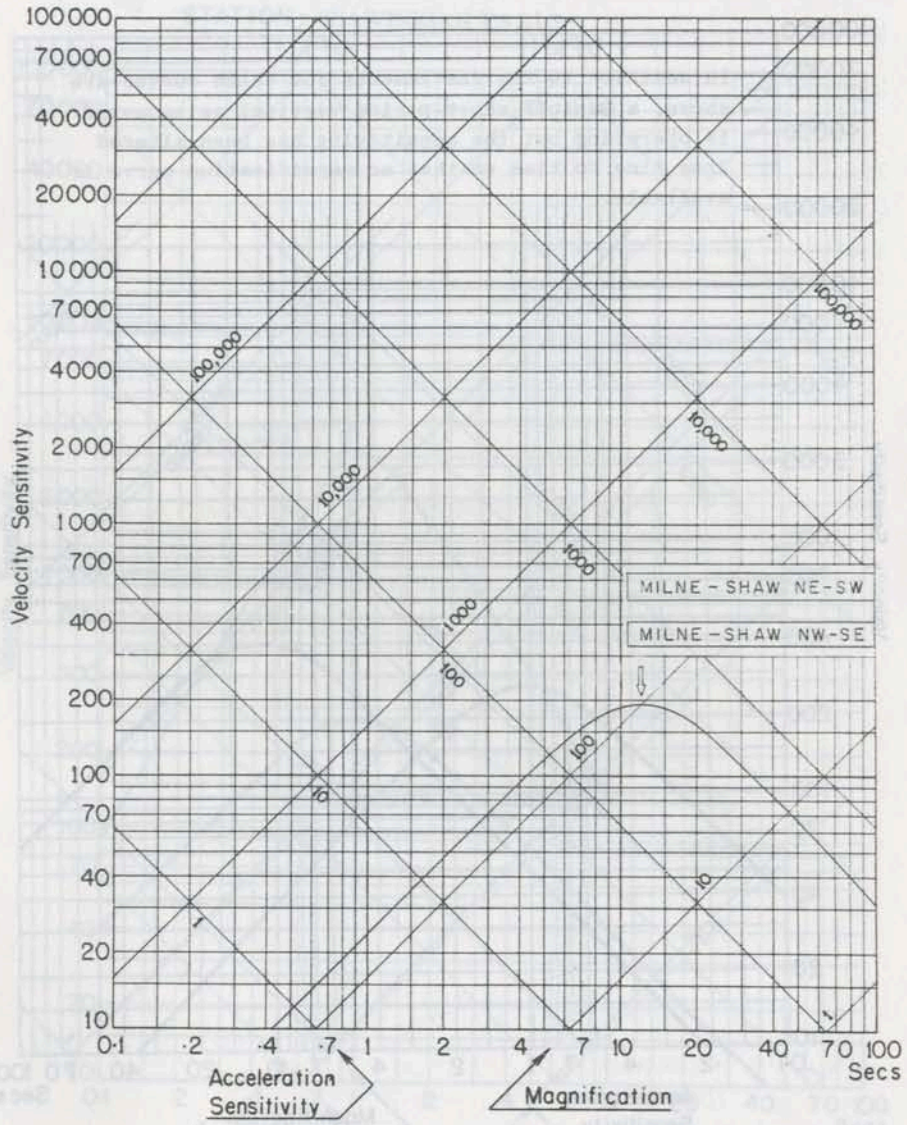
T_s ⇕ T_g ⇕

Date of Calibration: September 1958

Read from end of minute mark.

CALIBRATION CURVES

STATION: SASKATOON



ϕ = 52° 08' N λ = 106° 38' W Altitude 515 m

Foundation : Clay and Sand

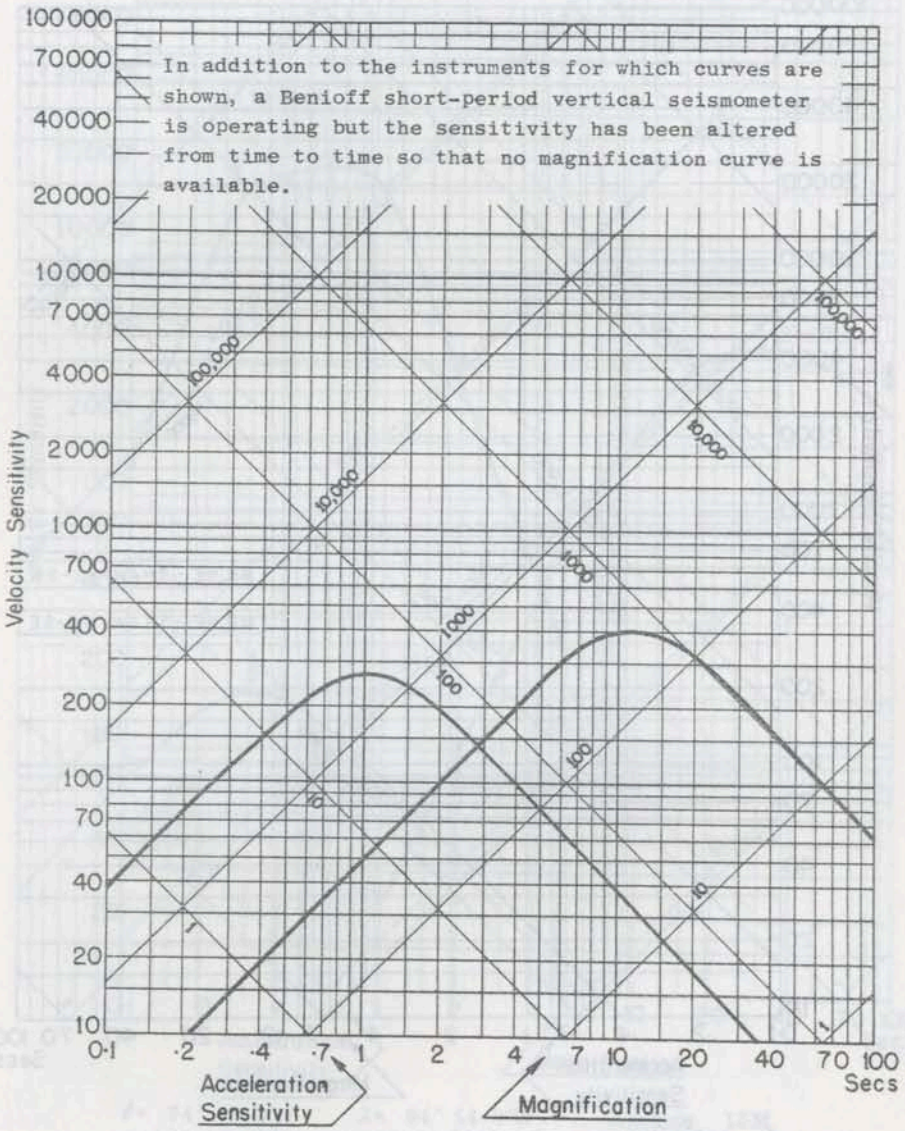
T_s ⇕ T_g ⇕

Date of Calibration: -

Read from start of minute mark.

CALIBRATION CURVES

STATION : SEVEN FALLS



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

Foundation : Precambrian basement rock

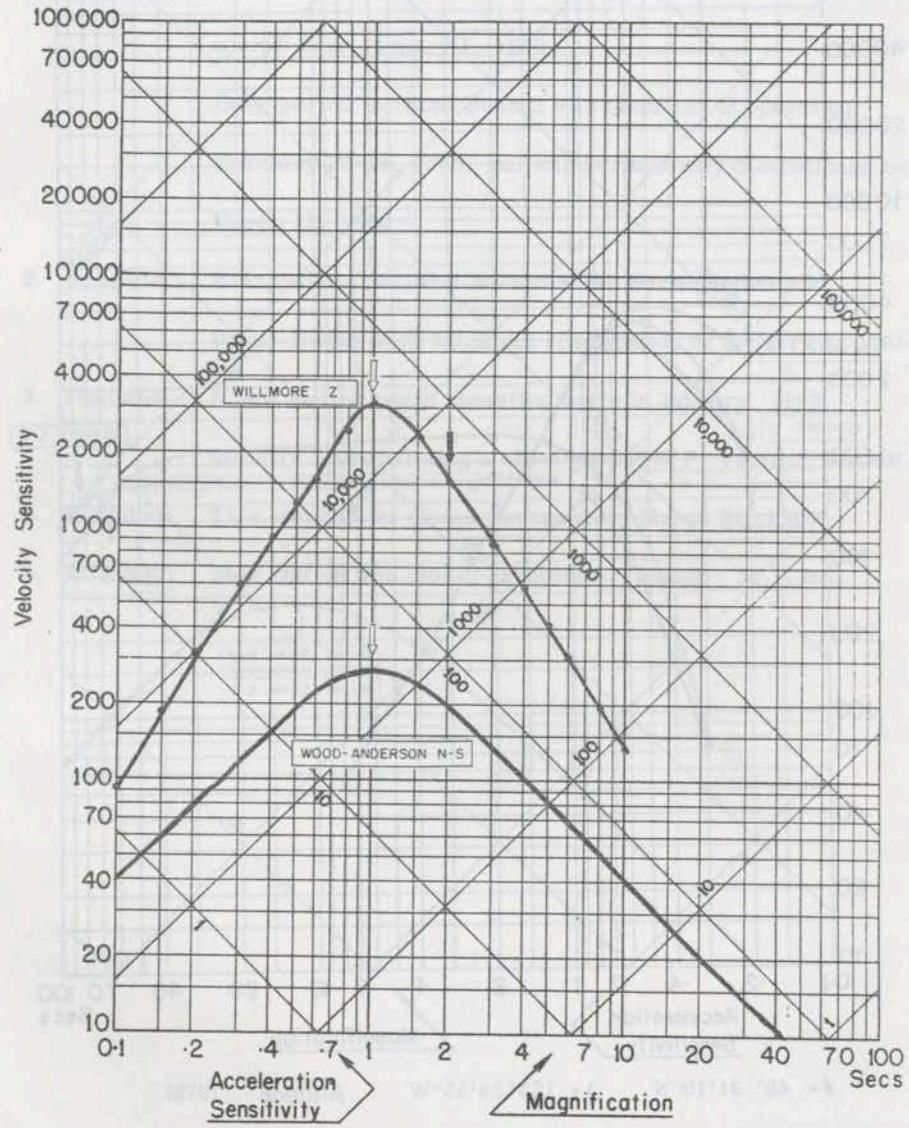
T_s ⇑ T_g ⇑

Date of Calibration: Estimated

Read from end of minute mark.

CALIBRATION CURVES

STATION : SHAWINIGAN FALLS



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

Foundation : Precambrian basement

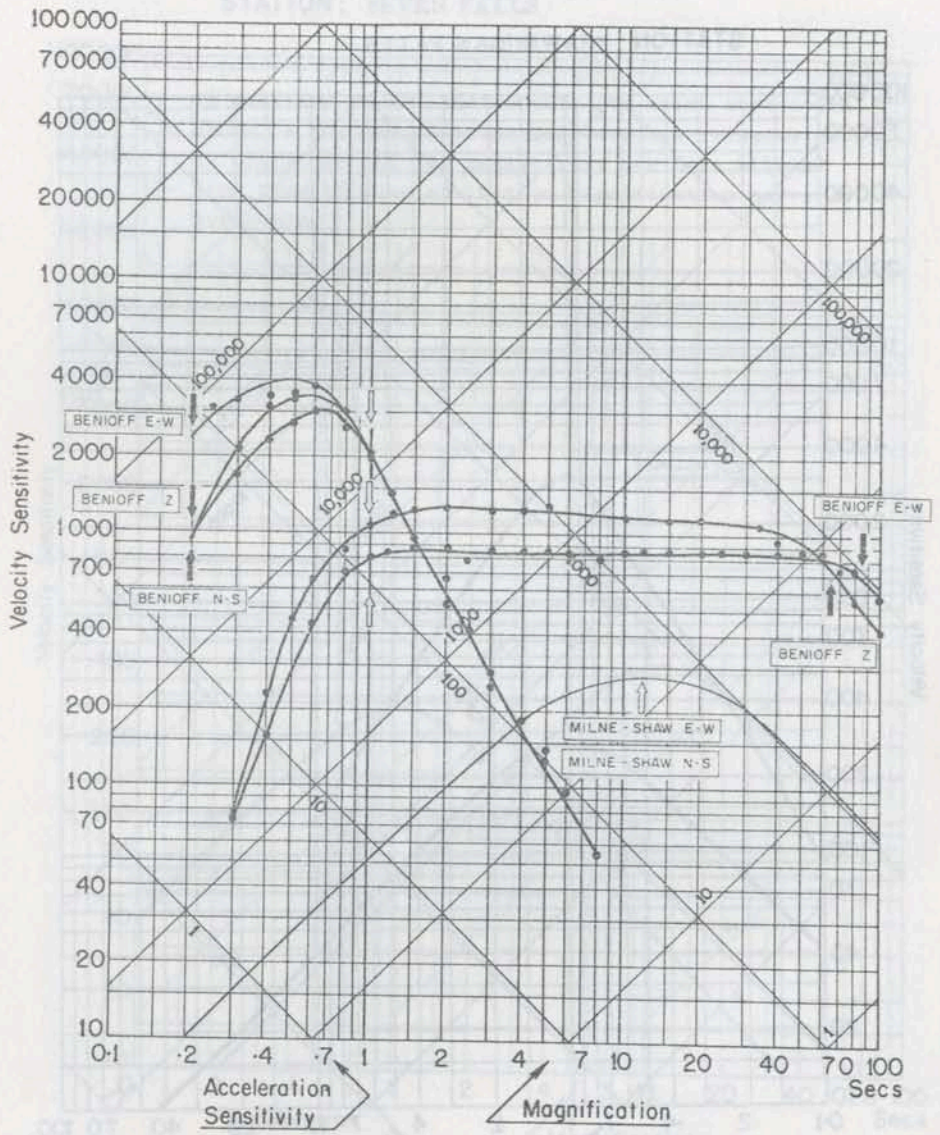
T_s ⇑ T_g ⇑

Date of Calibration: November 6, 1959

Read from end of minute mark.

CALIBRATION CURVES

STATION: VICTORIA



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

Foundation : Quartz diorite

T_s ⇧ T_g ⇧

Date of Calibration: July 4 1957

NOTE: Calibration for Benioff L.P.-N.S. not available.
Use mean of Benioff L.P.Z. and E.W.

Read from start of minute mark.

DOMINION OBSERVATORIES

NOTES

1. Ottawa — N.S. and E.W. Milne-Shaw seismographs were taken out of operation on January 1, 1960.

   Long-period Vertical Benioff was taken out of operation February 22-24, 1960, and was permanently discontinued on March 11, 1960.

2. Resolute — Intermediate period N.S. and E.W. Sprengnether and Press-Ewing were taken out of operation on January 1, 1960.

3. Penticton — A new station began operation early in January 1960. Initially it is operating a short-period S.P. Vertical Benioff.

4. Saskatoon — This station was closed permanently March 31, 1960.

5. Lillooet — This station was closed permanently January 31, 1960.

DOMINION OBSERVATORIES

JANUARY 1
Resolute
eP 02 44 48

JANUARY 1
U.S.C.G.S.
49N, 153 1/2E
Kurile Islands,
H = 04 11 40
Ottawa
iP 04 23 28 d
Resolute
iP 04 20 24 d

JANUARY 1
U.S.C.G.S.
27 1/2N, 142E
Bonin Islands,
H = 04 17 32
Resolute
P 04 28 58

JANUARY 1
U.S.C.G.S.
13 1/2N, 147E
Mariana Islands,
H = 05 57 26
Resolute
P 06 09 37

JANUARY 1
Resolute
P 11 09 06

JANUARY 1
U.S.C.G.S.
56N, 162 1/2E
Near east coast of
Kamchatka
H = 23 12 31
Horseshoe Bay
eP 23 20 22
Ottawa
eP 23 23 29 c
Resolute
eP 23 20 09 c
i 23 22 13
eS 23 26 16
Victoria
eP 23 20 35

JANUARY 2
Resolute
P 01 51 11

JANUARY 2
U.S.C.G.S.
15 1/2S, 68W
Bolivia
H = 03 21 52
h = 150 km
Mag 6 1/4
Horseshoe Bay
i 03 33 38
Ottawa
eP 03 31 59
Resolute
P 03 34 46
Victoria
iP 03 33 49
i 34 27

JANUARY 2
U.S.C.G.S.
2 1/2N, 96E
Off coast of Sumatra
H = 05 06 54
Resolute
P 05 21 02

JANUARY 2
U.S.C.G.S.
56 1/2 N, 163E
Near east coast of
Kamchatka
H = 06 59 36
Resolute
P 07 07 13
Ottawa
eP 07 10 36

JANUARY 2
U.S.C.G.S.
Sandwich Islands
H = 08 27 14
Resolute
P' 08 46 32

JANUARY 2
Resolute
P 11 26 12

JANUARY 2
Off coast of Washington
H = 12 08 02
Mag 3.5
Alberni
eP 12 08 43.3
eS 09 18.2
Horseshoe Bay
eP 12 09 06.5
Victoria
eP 12 08 57.2
eS 09 36.8

JANUARY 2
Alberni
iP 12 42 09.8
iS 19.6

JANUARY 2
U.S.C.G.S.
South Atlantic ocean,
west of Bouvet Island
H = 12 21 51
Alberni
eP' 12 41 45
Resolute
P' 12 41 22
Victoria
eP' 12 41 30

JANUARY 2
48° 45'N, 123° 16'W
South Pender Island
H = 18 34 09.4
Mag 2.2
Alberni
iP_1 18 35 30.0
P_n 30.5
iS 47.3
Horseshoe Bay
iP 18 35 29.0
iS 38.8
Victoria
iP 18 34 13.4
iS 17.1

JANUARY 2
U.S.C.G.S.
5S, 152 1/2E
New Britain
H = 21 22 51
Ottawa
P 21 41 51

JANUARY 2
Resolute
P 23 03 11

JANUARY 3
Ottawa
eP 07 02 30
Resolute
P 07 05 25

JANUARY 3
Horseshoe Bay
eP 10 16 36
Resolute
P 10 13 38

JANUARY 3
U.S.C.G.S.
44N, 84 1/2E
Sinkiang Province,
China
H = 11 24 00
Resolute
eP 11 34 23 c
eS 11 42 44

JANUARY 3
U.S.C.G.S.
61N, 152W
South Central Alaska
H = 11 38 30
Ottawa
eP 11 46 47
Resolute
P 11 43 45

JANUARY 3
U.S.C.G.S.
39 1/2N, 15 1/2E
Tyrrhenian Sea
H = 20 19 30
h = 250 km
Halifax
iP 20 28 51 d
Horseshoe Bay
iP 20 31 42
Ottawa
iP 20 29 40 d
Resolute
iP 20 28 55 d
S 20 36 32
Victoria
iP 20 31 41

JANUARY 3
U.S.C.G.S.
45N, 148E
Kurile Islands
H = 21 20 13
h = 150 km
Alberni
iP 21 29 43
Ottawa
eP 21 32 21
Resolute
P 21 29 21
Victoria
eP 21 29 50

JANUARY 3
Halifax
iP 23 09 47 c

JANUARY 3
Resolute
P 23 33 24

JANUARY 4
U.S.C.G.S.
26N, 90E
India-Pakistan border
H = 03 57 03
Resolute
eP 04 09 11

JANUARY 4
U.S.C.G.S.
4 1/2S, 153 1/2E
New Britain
H = 06 19 49
Ottawa
eP' 06 33 42
Resolute
i 06 33 11
i 06 37 52
i 06 41 38
i 06 46 31

JANUARY 4
U.S.C.G.S.
45N, 27E
Romania
H = 12 51 52
Resolute
eP 13 01 22 d

DOMINION OBSERVATORIES

JANUARY 4
U.S.C.G.S.
18N, 120 1/2E
Luzon Island,
Philippine Islands,
H = 13 34 20
Resolute
P 13 46 56

JANUARY 4
U.S.C.G.S.
5 1/2S, 77 1/2W
Northern Peru,
H = 15 05 39
Ottawa
iP 15 14 43 d
Resolute
eP 15 17 55 (c)
i 15 28 06
Shawinigan Falls
P 15 15 07

JANUARY 4
H = 21 02 57.2
Mag 2.0
Ottawa
iP_1 21 03 15.0
iS_1 21 03 28.5
D = 111 km

JANUARY 5
U.S.C.G.S.
19S, 69 1/2 W
Northern Chile
H = 05 13 48
Shawinigan Falls
P 05 24 36

JANUARY 5
Resolute
P 10 40 01

JANUARY 6
Resolute
P 09 48 16

JANUARY 6
U.S.C.G.S.
10 1/2 S, 167E
Santa Cruz Islands
H = 13 11 00
Resolute
iSS 13 44 04

JANUARY 6
U.S.C.G.S.
23 1/2N, 95E
Burma
H = 18 45 08
Resolute
P 18 57 29

JANUARY 6
U.S.C.G.S.
6 1/2S, 133E
Banda Sea
H = 20 16 29
Resolute
P 20 34 56

JANUARY 6
Resolute
P 23 08 45

JANUARY 7
U.S.C.G.S.
6 1/2N, 94E
Nicobar Islands
H = 08 15 21
Resolute
P 08 29 04

JANUARY 7
46° 56'N, 122° 30'W
Southern Puget Sound,
near Olympia, Wash.
H = 09 16 04.4
Mag 3.6
Alberni
eP 09 16 50.1
S 17 23.0
Horseshoe Bay
iP 09 16 49.1
iS 17 25.7
Victoria
iP 09 16 34.3
S 58.0

JANUARY 7
Resolute
P 13 15 42

JANUARY 7
U.S.C.G.S.
Sandwich Islands
H = 13 28 16
Mag 6 1/4 - 6 1/2
Horseshoe Bay
eP' 13 47 31
Resolute
P' 13 47 28
Victoria
eP' 13 47 27

JANUARY 7
Resolute
P 14 55 24

JANUARY 7
U.S.C.G.S.
6 1/2N, 94 1/2E
Nicobar Islands
H = 23 17 18
Resolute
P 23 31 03

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JANUARY 8
Resolute
eP 02 18 53 c

JANUARY 8
U.S.C.G.S.
58 1/2S, 26W
Sandwich Islands
H = 02 35 00
Resolute
P' 02 54 24

JANUARY 8
Resolute
P 10 23 53

JANUARY 8
U.S.C.G.S.
55S, 27 1/2W
Sandwich Islands
H = 11 29 18
Resolute
P' 11 48 34

JANUARY 8
U.S.C.G.S.
55 1/2S, 27 1/2W
Sandwich Islands
H = 14 45 53
Horseshoe Bay
(ePP) 15 08 20
Resolute
P' 15 05 05
Victoria
(iPP) 15 08 29

JANUARY 8
Resolute
eP 15 16 45 c

JANUARY 8
Resolute
P 15 24 15

JANUARY 8
Resolute
P 15 47 56

JANUARY 8
Resolute
P 22 01 38

JANUARY 9
Resolute
P 01 40 35

JANUARY 9
Resolute
P 03 13 22

JANUARY 9
Resolute
P 03 58 19

JANUARY 9
U.S.C.G.S.
37N, 29E
Southwestern Turkey
H = 03 58 45
Resolute
eP 04 09 12 d
Shawinigan Falls
eP 04 10 07

JANUARY 9
U.S.C.G.S.
36N, 69E
Hindu Kush
H = 07 23 50
h = about 150 km
Alberni
eP 07 36 56
Halifax
iP 07 36 34 c
Ottawa
iP 07 36 51 c
Resolute
iP 07 34 43

Shawinigan Falls
iP 07 36 44 c
Victoria
iP 07 36 59

JANUARY 9
U.S.C.G.S.
1S, 124E
Celebes
H = 07 41 57
Resolute
P' 08 00 03
Shawinigan Falls
eP' 08 01 20

JANUARY 9
Resolute
(P) 10 23 40

JANUARY 9
Resolute
(P) 13 24 04

JANUARY 9
Resolute
eP 17 23 54 c

JANUARY 9
U.S.C.G.S.
55 1/2N, 165W
Unimak Island region
H = 17 49 07
Resolute
P 17 55 40

JANUARY 10
Resolute
P 05 39 47

DOMINION OBSERVATORIES

JANUARY 10
U.S.C.G.S.
12N, 145E
Mariana Island region
H = 06 26 00
h = 100 km
Resolute
eP 06 33 37 d

JANUARY 10
Resolute
P 07 43 01

JANUARY 10
Resolute
eP 23 01 13 c

JANUARY 10
Resolute
P 23 33 18

JANUARY 11
Resolute
(P) 00 07 38

JANUARY 11
U.S.C.G.S.
28 1/2N, 131E
Ryukyu Islands
H = 02 27 38
Resolute
iP 02 39 11 d

JANUARY 11
U.S.C.G.S.
13 1/2N, 120 1/2E
Off coast of Luzon, Philippine Islands
H = 02 51 07
Resolute
P 03 04 05

JANUARY 11
Resolute
(P) 03 22 11

JANUARY 11
U.S.C.G.S.
16N, 96 1/2E
Near south coast of Burma
H = 03 10 14
Resolute
eP 03 23 13
e 03 34.3

JANUARY 11
Resolute
(P) 12 14 00

JANUARY 11
U.S.C.G.S.
29S, 176W
Kermadec Islands
H = 17 49 58
Resolute
iSS 18 25 44

JANUARY 11
Resolute
P 22 44 29

JANUARY 11
U.S.C.G.S.
2S, 140 1/2E
Near north coast of New Guinea
H = 22 54 03
Resolute
P 23 07 54

JANUARY 12
U.S.C.G.S.
23 1/2N, 122 E
Near east coast of Formosa
H = 01 52 37
Resolute
eP 02 04 43 c

JANUARY 12
U.S.C.G.S.
55 1/2S, 27W
Sandwich Islands region
H = 03 09 10
Resolute
P' 03 28 24

JANUARY 12
Resolute
(P) 06 50 04

JANUARY 12
Resolute
(P) 07 47 12

JANUARY 12
48.2N, 124.9W
Off coast of Washington
H = 07 52 55
Mag 2.3
Alberni
eP 07 53 10.6
Horseshoe Bay
iP 08 53 22.0
42.2
Victoria
iP 07 53 09.5
S 20.6

JANUARY 12
Resolute
(P) 15 14 24

JANUARY 13
Resolute
P 01 34 46

JANUARY 13
Resolute
(P) 07 34 58

JANUARY 13
U.S.C.G.S.
16S, 72W
Southern Peru
H = 15 40 34
h = 200 km
Mag 7 1/2 - 7 3/4
Alberni
eP 15 52 29
Halifax
iP 15 50 31 d
Horseshoe Bay
iP 15 52 22
Ottawa
iP 15 50 31 d
Resolute
eP 15 53 25 d
Saskatoon
iP 15 51 59
iS 16 01 11
Seven Falls
P 15 50 44
S 15 59 11
Shawinigan Falls
iP 15 50 41 d
Victoria
eP 15 52 18
eS 16 02 14

JANUARY 13
U.S.C.G.S.
51 1/2N, 180
Andreanof Islands, Aleutian Islands,
H = 16 29 41
Horseshoe Bay
eP 16 37 43

Ottawa
iP 16 40 13 c
Resolute
iP 16 37 20 c
Shawinigan Falls
eP 16 40 18

JANUARY 13
Resolute
(P) 18 55 33

JANUARY 13
Resolute
(P) 21 27 38

JANUARY 14
U.S.C.G.S.
Near coast of northern Sumatra
H = 02 41 24
Resolute
eP 02 55 14

JANUARY 14
Resolute
e (P) 07 50 36

JANUARY 14
Resolute
P 08 42 33

JANUARY 14
Resolute
eP 09 34 10 c

JANUARY 14
U.S.C.G.S.
37N, 140E
Honshu, Japan
H = 10 25 52
Resolute
eP 10 36 22 c

JANUARY 14
U.S.C.G.S.
57N, 162 1/2E
Near east coast of Kamchatka
H = 12 49 07
Ottawa
eP 13 00 06
Resolute
eP 12 56 45 c
i 12 58 49
Shawinigan Falls
eP 13 00 07

JANUARY 14
Resolute
P 13 12 10

JANUARY 14
Ottawa
eP 14 45 06
Resolute
P 14 46 37

JANUARY 14
Resolute
P 18 55 32
Shawinigan Falls
iP 18 50 21 c

JANUARY 14
Resolute
P 19 16 23

JANUARY 14
U.S.C.G.S.
44 1/2N, 148E
Kurile Islands
H = 20 55 10
Resolute
eP 21 04 38 c

DOMINION OBSERVATORIES

JANUARY 14
U.S.C.G.S.
11N, 43W
Atlantic Ocean
H= 21 25 15
Ottawa
eP 21 33 28
Resolute
P 21 36 29
S 21 45 40
iSS 21 50 10
Shawinigan Falls
eP 21 33 23 d

JANUARY 15
Resolute
P 03 13 33

JANUARY 15
Resolute
P 04 51 27

JANUARY 15
U.S.C.G.S.
15S, 75W
Near coast of
Southern Peru
H = 09 30 24
h = 150 km
Mag 6 1/2 - 7
Alberni
eP 09 42 11
Halifax
iP 09 40 21 c
Ottawa
iP 09 40 20 c
Resolute
iP 09 43 14 c
i 09 46 48
i 09 53 43
iS 09 54 04
Saskatoon
iP 09 50 58
Seven Falls
P 09 40 35
S 09 48 56
Shawinigan Falls
iP 09 40 29 c
Victoria
iP 09 42 02

JANUARY 15
Resolute
P 10 51 13

JANUARY 15
Resolute
P 16 46 32

JANUARY 15
Resolute
P 17 22 10

JANUARY 15
Resolute
P 21 40 18
Shawinigan Falls
iP 21 37 11 c

JANUARY 16
U.S.C.G.S.
59 1/2S, 149 1/2E
About 500 miles
southwest of Macquarie
Islands
H = 06 59 00
Ottawa
iP' 07 19 57 d
Resolute
P' 07 18 56

JANUARY 16
46°45'N, 121°47'W
Southern Puget Sound
Area, southwest corner
of Mt. Rainier National
Park, Washington
H = 07 31 01
Mag 3.5
Horseshoe Bay
iP 07 31 45.4
iS 32 20.1
Victoria
eP 07 31 32.6
31 52.4

JANUARY 16
U.S.C.G.S.
20 1/2S, 178W
Fiji Islands region
H = 12 30 56
h = 600 km
Resolute
eS 12 55 38

JANUARY 16
Resolute
P 14 34 10

JANUARY 16
Resolute
P 15 09 39

JANUARY 16
Resolute
(P) 17 28 12

JANUARY 16
Resolute
(P) 18 45 04

SEISMOLOGICAL BULLETIN - 1960

JANUARY 16
U.S.C.G.S.
63N, 151W
Alaska
H = 20 49 31
h = 150 km
Alberni
iP 20 53 53
Halifax
iP 20 58 10
Horseshoe Bay
iP 20 54 00
i 58 07
Ottawa
iP 20 57 28 c
Resolute
iP 20 54 14 d
S 20 58 04
Shawinigan Falls
iP 20 57 31 d
Victoria
iP 20 54 05
i 58 09

JANUARY 17
Resolute
eP 01 13 01 c

JANUARY 17
U.S.C.G.S.
14 1/2S, 74 1/2W
Near coast of Southern
Peru
H = 02 57 58
h = 150 km
Mag 6 1/4
Horseshoe Bay
eP 03 09 39
Ottawa
eP 03 07 52 c
Resolute
eP 03 10 45 c
i 03 21 36
Shawinigan Falls
iP 03 08 01 c
Victoria
eP 03 09 35

JANUARY 17
Resolute
P 03 24 06

JANUARY 17
U.S.C.G.S.
40 1/2N, 142E
Off coast of northern
Honshu, Japan
H = 04 19 07
Resolute
eP 04 29 07 c

JANUARY 17
Resolute
P 05 26 40

JANUARY 18
U.S.C.G.S.
About 650 miles
southwest of Prince
Edward Islands
H = 01 04 11
Resolute
P_1' 01 23 51
P_2' 01 23 58

JANUARY 18
Canadian Arctic
H = 05 20 59
Mag 1.4
Resolute
iP_1 05 21 07
iS_1 05 21 13
D = 49.2 km

JANUARY 18
U.S.C.G.S.
5N, 126 1/2E
Off south coast of
Mindanao, P.I.
H = 09 04 43
Resolute
P 09 18 17
eS 09 29 34

JANUARY 18
Resolute
(P) 14 50 16

JANUARY 18
U.S.C.G.S.
9N, 77W
Off coast of Panama
H = 19 30 18
h = 100 km
Halifax
ip 19 37 33 d
Ottawa
iP 19 37 22 d
Resolute
eP 19 41 05 d
S 19 49 50
Shawinigan Falls
iP 19 37 35 d
Victoria
eP 19 39 50

JANUARY 19
U.S.C.G.S.
52N, 158E
Near southeast coast
of Kamchatka
H = 02 16 52
Mag 6 1/4 - 6 1/2
Halifax
ip 02 28 50 c
Alberni
eP 02 25 26
Ottawa
eP 02 28 21 c
Resolute
iP 02 25 12 c
i 02 27 00
S 02 31 42
Shawinigan Falls
iP 02 28 23 c
Victoria
iP 02 25 35

DOMINION OBSERVATORIES

JANUARY 19
Resolute
P 06 17 10

JANUARY 19
U.S.C.G.S.
17N, 98W
Near coast of Oaxaca Mexico
H = 08 50 24
Halifax
eP 08 57 21
Ottawa
eP 08 57 11
Resolute
P 09 00 17
S 09 08 14
Shawinigan Falls
eP 08 57 31

JANUARY 19
51°06'N, 124°29'W
Southwest of Chilko Lake, B.C.
H = 09 00 54
Mag 3.3
Alberni
eP_1 09 01 25.1
P_n 25.9
S 50.3
Horseshoe Bay
S-P = 25.7 sec.
No time correction
Victoria
eP 09 01 36.7
iS 02 13.1

JANUARY 19
U.S.C.G.S.
23S, 180
South of Fiji Islands
H = 09 15 04
h = 600 km
Resolute
P 09 32 34
S 09 40 14

JANUARY 19
Resolute
P 12 10 35

JANUARY 19
Resolute
P 16 18 08

JANUARY 19
U.S.C.G.S.
24N, 142E
Volcano Islands
H = 16 10 36
h = 100 km
Resolute
eP 16 22 10 c

JANUARY 19
Resolute
(P) 19 51 08

JANUARY 19
Resolute
(P) 20 48 29

JANUARY 19
U.S.C.G.S.
Southwestern Turkey
H = 21 26 39
Resolute
P 21 37 06

JANUARY 20
U.S.C.G.S.
3 1/2N, 31W
Mid-Atlantic Ocean
H = 01 03 25
Resolute
eP 01 15 35 d

JANUARY 20
U.S.C.G.S.
17 1/2S, 178W
Fiji Islands
H = 02 50 02
h = 500 km
Resolute
e 03 09 40

JANUARY 20
Victoria
eP 03 26 59
e 03 33 24
e 34 17

JANUARY 20
U.S.C.G.S.
36 1/2N, 122W
Near coast of Central California
H = 03 25 50
Mag 5
Resolute
P 03 33 29

JANUARY 20
Canadian Arctic
H = 06 20 58.8
Mag 1.3
Resolute
iP_1 06 21 08
iS_1 06 21 15
D = 54.4 km

JANUARY 20
46°58'N, 75°40'W
About 5 miles east of the northern arm of Lake Baskatong, Quebec
H = 20 07 40.0
h = 15 km ?
Mag 3.7

SEISMOLOGICAL BULLETIN - 1960

Montreal
e 20 08 15.6
iP_1 20 08 16.3
i 20 08 18.7
i 20 08 21.7
iS_1 20 08 44
D = 224 km
Ottawa
$e(P_n)$ 20 08 07.1
iP_1 20 08 07.9
i 20 08 14.8
iS_1 20 03 29
D = 175 km
Seven Falls
eS_1 20 09 24.6
D = 369 km
Shawinigan Falls
iP_1 20 03 16.3
i 20 08 18.8
i 20 08 21.7
iS_1 20 08 44
D = 226 km

JANUARY 20
Canadian Arctic
H = 23 18 22.7
Mag 2.0
Resolute
iP_1 23 18 30.2
iS_1 23 18 35.9
D = 46.7 km

JANUARY 21
Resolute
P 04 14 18

JANUARY 21
Resolute
P 04 43 15

JANUARY 21
U.S.C.G.S.
18S, 179 1/2E
Fiji Islands
H = 10 43 33
h = 600 km
Resolute
e 11 10 06

JANUARY 21
Resolute
(P) 11 16 25

JANUARY 21
Resolute
(P) 11 47 31

JANUARY 21
Resolute
eP 21 34 48 c

JANUARY 22
Resolute
P 01 48 34

JANUARY 22
U.S.C.G.S.
42N, 142 1/2E
Near south coast of Hokkaido, Japan
H = 02 14 11
Ottawa
P 02 26 59
Resolute
iP 02 24 03 c

JANUARY 22
U.S.C.G.S.
0, 125E
Molucca Passage
H = 13 35 54
Resolute
P 13 49 51

JANUARY 22
Ottawa
iP 13 58 31 d

JANUARY 22
Resolute
(P) 16 36 40

JANUARY 22
41 1/2N, 75 1/2W
North of Scranton, Pennsylvania
H = 20 53 22
Mag 3.4
Montreal
eS_n 20 55 14.5
eS_1 20 55 34.5
D = 470 km
Ottawa
eS_n 20 55 06.0
eS_1 20 55 24.0
D = 435 km
Shawinigan Falls
eS_1 20 56 12
D = 602 km

JANUARY 23
Resolute
(P) 01 31 02

JANUARY 23
U.S.C.G.S.
Off northwest coast of Luzon, Philippine Islands
H = 04 24 45
Resolute
P 04 37 17

JANUARY 23
U.S.C.G.S.
4S, 127 1/2E
Ceram Island region
H = 04 40 56
Mag 6 1/2
Halifax
iP' 05 00 17 c
Ottawa
eP' 05 00 19 c

DOMINION OBSERVATORIES

Resolute
eP 04 55 09 c
iPP 04 59 34
iSKS 05 05 50
Shawinigan Falls
P' 05 00 17

JANUARY 23
U.S.C.G.S.
4S, 127 1/2E
Ceram Island region
H = 07 31 14
Mag 6 3/4
Halifax
eP' 07 50 45
Ottawa
eP' 07 50 39
Resolute
P 07 45 27
i 07 49 52
i 07 56 10
Shawinigan Falls
P' 07 50 38

JANUARY 23
Resolute
(P) 13 32 01

JANUARY 23
U.S.C.G.S.
4S, 127 1/2E
Ceram Island region
H = 17 56 30
Mag 6 1/2 - 6 3/4
Halifax
iP' 18 15 53
e 18 16 08
Ottawa
P' 18 15 55
Resolute
P 18 10 44
iPP 18 15 08
iSKS 18 21 26
iPS 18 24 23
Shawinigan Falls
P' 18 15 57

JANUARY 23
U.S.C.G.S.
5 1/2S, 152 E
New Britain
H = 21 57 03
Resolute
P 22 11 01

JANUARY 24
U.S.C.G.S.
43 1/2N, 127 1/2W
Off coast of Oregon
H = 00 39 33
Mag 4 1/2
Ottawa
P 00 46 39
Resolute
eP 00 46 24 d
Shawinigan Falls
P 00 46 54

JANUARY 24
U.S.C.G.S.
15 1/2S, 179W
Fiji Islands
H = 04 21 42
Mag 6 - 6 1/2
Resolute
P 04 35 46
iSKS 04 46 26
iS 04 47 32
iPS 04 49 10
Victoria
iP 04 34 03
iS 44 26

JANUARY 24
Resolute
P 15 01 19

JANUARY 24
Resolute
P 15 56 55

JANUARY 24
U.S.C.G.S.
52 1/2N, 160 E
Near east coast of
Kamchatka
H = 18 33 45
Resolute
eP 18 41 55 c

JANUARY 24
Resolute
P 21 25 40

JANUARY 25
Resolute
P 00 25 34

JANUARY 25
U.S.C.G.S.
52 1/2N, 160E
Near east coast of
Kamchatka
H = 08 46 25
Resolute
eP 08 54 35 c
S 09 01 04
i 09 04 32

JANUARY 25
U.S.C.G.S.
52 1/2N, 160E
Near east coast of
Kamchatka
H = 11 26 31
Resolute
P 11 34 40

JANUARY 25
U.S.C.G.S.
16S, 179W
Fiji Islands
H = 16 29 26
Mag 6 1/4

Resolute
iSKS 16 54 14
S 16 55.4
iPS 16 56 50

JANUARY 26
Resolute
P 03 20 23

JANUARY 26
Ottawa
eP 03 29 30 d

JANUARY 26
U.S.C.G.S.
44 1/2N, 149 1/2E
Kurile Islands
H = 09 37 00
Resolute
P 09 46 27

JANUARY 26
U.S.C.G.S.
39 1/2N, 39 1/2E
Turkey
H = 09 52 00
Resolute
ep 10 02 27

JANUARY 26
Resolute
P 10 43 03

JANUARY 26
U.S.C.G.S.
38N, 29E
Turkey
H = 13 05 40
Resolute
eP 13 16 00 d

JANUARY 26
U.S.C.G.S.
13N, 87 1/2W
Near coast of
Nicaragua
H = 18 19 55
h = 60 km
Horseshoe Bay
eP 18 28 19
Ottawa
P 18 26 39
Resolute
P 18 30 11
Shawinigan Falls
P 18 26 55 d

JANUARY 26
U.S.C.G.S.
30S, 178W
Kermadec Islands
H = 22 21 19
Halifax
eP' 22 40 26
Ottawa
P' 22 40 10
Resolute
P' 22 40 03
Seven Falls
eP' 22 40 17
Shawinigan Falls
P' 22 40 13

JANUARY 27
Victoria
eP 00 12 17
eS 16 25

JANUARY 27
Resolute
P 01 50 55

JANUARY 27
Resolute
P 10 33 17

JANUARY 27
Resolute
(P) 13 14 39

JANUARY 28
Resolute
(P) 00 03 39

JANUARY 28
Resolute
P 08 58 38

JANUARY 28
Resolute
(P) 22 04 06

JANUARY 29
Resolute
P 07 44 27

JANUARY 29
Resolute
P 08 05 49
Victoria
eP 08 06 11

JANUARY 29
Resolute
(P) 08 40 19

JANUARY 29
Resolute
P 15 43 18

JANUARY 29
U.S.C.G.S.
Mariana Islands
region
H = 22 47 20
Resolute
P 22 59 13

DOMINION OBSERVATORIES

JANUARY 30
Resolute
P 00 21 15

JANUARY 30
Resolute
P 01 16 39

JANUARY 30
Resolute
P 03 54 52

JANUARY 30
Resolute
P 04 00 38

JANUARY 30
Resolute
P 04 57 06

JANUARY 30
Resolute
P 09 09 46

JANUARY 30
Resolute
P 11 21 52

JANUARY 30
Resolute
P 12 30 30

JANUARY 30
Resolute
P 12 42 25 c

JANUARY 30
Resolute
P 14 33 25

JANUARY 30
Resolute
eP 15 09 19 c

JANUARY 30
Resolute
P 15 39 18

JANUARY 30
Resolute
P 15 58 44

JANUARY 30
Resolute
P 17 12 04

JANUARY 30
Resolute
P 17 47 26

JANUARY 30
Resolute
P 17 53 54

JANUARY 30
U.S.C.G.S.
21 1/2N, 142 1/2E
Mariana Islands region
H = 17 56 05
Resolute
P 18 08 02 c

JANUARY 30
U.S.C.G.S.
22N, 144E
Mariana Islands region
H = 18 38 10
Resolute
P 18 50 07

JANUARY 30
Resolute
P 19 04 34

JANUARY 30
Resolute
P 20 02 39

JANUARY 30
Resolute
P 21 42 58

JANUARY 30
Resolute
P 22 07 14 c

JANUARY 30
Resolute
P 22 14 32

JANUARY 31
U.S.C.G.S.
21 1/2N, 143 1/2E
Mariana Islands region
H = 03 34 42
Resolute
eP 03 46 38 d

JANUARY 31
U.S.C.G.S.
33 1/2N, 134 1/2E
Near east coast of
Shikoku, Japan
H = 05 08 18
Resolute
eP 05 19 15 c
S 05 28 12

SEISMOLOGICAL BULLETIN - 1960

JANUARY 31
U.S.C.G.S.
21 1/2N, 143 1/2E
Mariana Islands region
H = 08 19 50
Resolute
P 08 31 47

JANUARY 31
Resolute
P 12 21 03

JANUARY 31
Resolute
eP 15 16 31 d

JANUARY 31
U.S.C.G.S.
Mariana Islands region
H = 16 12 29
Resolute
P 16 24 26

JANUARY 31
U.S.C.G.S.
Near east coast of
Kamchatka,
H = 17 26 38
Resolute
P 17 34 17

JANUARY 31
U.S.C.G.S.
21 1/2N, 143 1/2E
Mariana Island region
H = 20 28 14
Resolute
P 20 40 11 q

FEBRUARY 1
Banff
eP 01 12 13

FEBRUARY 1
U.S.C.G.S.
43N, 132W
Pacific Ocean
H = 02 08 37
Ottawa
eP 02 16 14
Resolute
eP 02 15 41 c
S 02 21 22
Seven Falls
eP 02 16 37
Shawinigan Falls
eP 02 16 28
Victoria
iP 02 09 46

FEBRUARY 1
U.S.C.G.S.
35N, 140 1/2E
Near east coast of
Honshu, Japan
H = 02 41 37
Resolute
P 02 52 14

FEBRUARY 1
Resolute
P 10 27 46

FEBRUARY 1
U.S.C.G.S.
35N, 23 1/2E
Near west coast of
Crete
H = 11 59 34
Halifax
ip 12 10 13
Resolute
P 12 10 09
Ottawa
eP 12 11 02
Seven Falls
iP 12 10 39
Shawinigan Falls
eP 12 10 50

FEBRUARY 1
U.S.C.G.S.
50 1/2N, 160E
Off east coast of
Kamchatka
H = 13 56 08
Resolute
iP 14 04 33 d
Victoria
iP 14 04 50

FEBRUARY 1
Resolute
eP 21 46 45 d

FEBRUARY 2
U.S.C.G.S.
33 1/2S, 179W
Kermadec Islands
region
H = 06 29 52
Resolute
P' 06 48 45
Seven Falls
eP' 06 48 57

FEBRUARY 2
U.S.C.G.S.
39N, 140E
Near west coast of
Honshu, Japan
H = 08 10 15
Resolute
eP 08 21 02 c

FEBRUARY 2
U.S.C.G.S.
28 1/2S, 69W
San Juan Province
Argentina
H = 09 12 52
Ottawa
eP 09 24 32
Seven Falls
eP 09 24 42

DOMINION OBSERVATORIES

FEBRUARY 2
45°03'N, 128°00'W
Off coast of Oregon
H = 09 51 59.5
Mag 4.3
Alberni
iP 09 53 13.6
iS 09 54 18.6
Victoria
iP 09 53 10.5
iS 09 54 17.1

FEBRUARY 2
U.S.C.G.S.
2N, 126E
Molucca Passage
H = 23 40 01
Resolute
eP 23 53 51 d

FEBRUARY 2
U.S.C.G.S.
34 1/2N, 104 1/2E
Kansu Province China
H = 23 51 57
Resolute
eP 24 03 15 c

FEBRUARY 3
U.S.C.G.S.
37S, 179E
Off coast of North Island
New Zealand
H = 02 20 55
Ottawa
eP' 02 40 01
Resolute
P' 02 39 55
Seven Falls
eP' 02 40 08
e 02 43 24
Shawinigan Falls
eP' 02 40 04

FEBRUARY 3
44°31'N, 126°28'W
Off coast of Oregon
H = 04 18 36.5
Mag 4.0
Alberni
eP 04 19 51.4
eS 04 20 55.7
Resolute
P 04 25 08
Victoria
iP 04 19 44.7
iS 04 20 46.3

FEBRUARY 3
U.S.C.G.S.
24N, 108 1/2W
Gulf of California
H = 11 29 55
Resolute
P 11 38 59
S 11 46 10

FEBRUARY 3
U.S.C.G.S.
43N, 138 1/2E
Off west coast of
Hokkaido Japan
H = 12 48 53
Resolute
P 12 58 44

FEBRUARY 3
Resolute
P 13 22 33

FEBRUARY 4
U.S.C.G.S.
4 1/2S, 153 1/2E
New Ireland Region
H = 03 46 30
Halifax
eP' 04 05 55
Ottawa
eP' 04 05 23
e 04 15 27
Resolute
P 04 00 15
i 04 10 48
Seven Falls
eP' 04 05 28
Shawinigan Falls
eP' 04 05 26
i 04 05 39
Victoria
eP 03 59 35

FEBRUARY 4
Resolute
P 04 16 58

FEBRUARY 4
Resolute
eP 07 04 07 c

FEBRUARY 4
U.S.C.G.S.
Southern Iran
H = 07 07 20
Resolute
eP 07 19 06 c

FEBRUARY 4
U.S.C.G.S.
35 1/2N, 78E
Northern India
H = 10 20 39
h = about 100 km
Resolute
P 10 31 45

FEBRUARY 4
U.S.C.G.S.
4 1/2S, 153 1/2E
New Britain region
H = 11 01 18
Victoria
iP' 11 18 28

FEBRUARY 4
Resolute
eP 15 16 41 d

FEBRUARY 4
U.S.C.G.S.
39N, 143E
Off east coast of
Honshu, Japan
H = 16 50 30
Ottawa
eP 17 03 24
Resolute
eP 17 00 39 d
S 17 08 56
Shawinigan Falls
eP 17 03 27

FEBRUARY 4
Resolute
P 17 48 11

FEBRUARY 4
Resolute
P 18 09 28

FEBRUARY 4
U.S.C.G.S.
18 1/2S, 178W
Fiji Islands
H = 20 33 20
h = about 600 km
Resolute
P' 20 55 40

FEBRUARY 4
U.S.C.G.S.
39 1/2N, 142 1/2E
Near coast of Honshu
Japan
H = 20 57 55
Resolute
eP 21 08 05 c
S 21 16 22

FEBRUARY 4
Resolute
P 23 03 08

FEBRUARY 4
Resolute
P 23 53 35

FEBRUARY 5
U.S.C.G.S.
32 1/2N, 131 1/2E
Near coast of Kyushu
Japan
H = 03 43 36
Resolute
eP 08 54 42 c

FEBRUARY 5
Resolute
P 22 04 58
Shawinigan Falls
eP 22 04 36

FEBRUARY 6
47°48'N, 70°23'W
About 15 miles up Riviere
Malbaie, Quebec
H = 00 44 02.0
Mag 3.3
Montreal
iP_1 00 44 59.0
iS_1 00 45 42.5
D = 357 km
Ottawa
S_1 00 46 18
D = 490 km
Seven Falls
iP_1 00 44 15.8
iS_1 00 44 26.1
D = 83 km
Shawinigan Falls
iP_1 00 44 38.8
iS_1 00 45 06.8
D = 230 km

FEBRUARY 6
48°44'N, 121°32'W
Southeast of Mt. Baker
Washington
H = 01 10 35.4
Mag 2.4
Alberni
iP 01 11 12.0
iS 01 11 34.2
Victoria
iP 01 10 58.0
iS 01 11 08.1

FEBRUARY 6
Resolute
P 01 18 24

FEBRUARY 6
Resolute
P 14 05 14

FEBRUARY 6
Resolute
P 17 12 55

FEBRUARY 6
U.S.C.G.S.
6S, 104E
Near coast of
Sumatra
H = 17 10 45
Resolute
P' 17 29 19

FEBRUARY 7
U.S.C.G.S.
7 1/2N, 71 1/2W
Venezuela
H = 04 24 50
Resolute
P 04 35 56

DOMINION OBSERVATORIES

FEBRUARY 7
U.S.C.G.S.
17N, 145E
Mariana Islands
H = 10 00 34
Resolute
P 10 12 53

FEBRUARY 7
U.S.C.G.S.
5N, 123E
Celebes Sea
H = 10 07 50
h = about 600 km
Resolute
P 10 20 26
Seven Falls
eP' 10 25 54

FEBRUARY 7
U.S.C.G.S.
15 1/2S, 173 1/2W
Samoa Islands region
H = 11 16 54
Resolute
P 11 30 51

FEBRUARY 7
Resolute
P 16 54 32

FEBRUARY 8
Resolute
P 02 29 14

FEBRUARY 8
U.S.C.G.S.
58 1/2N, 152W
Kodiak Islands,
Alaska
H = 03 37 20
Resolute
eP 03 42 58 d
Shawinigan Falls
eP 03 45 49

FEBRUARY 8
U.S.C.G.S.
36 1/2N, 70 1/2E
Afghanistan
H = 18 54 23
h = about 150 km
Resolute
eP 19 05 16 c

FEBRUARY 8
U.S.C.G.S.
8 1/2S, 74 1/2W
Peru
H = 19 06 16
h = about 200 km
Ottawa
iP 19 15 20 c
Resolute
eP 19 18 26 d
Seven Falls
eP 19 15 32
Shawinigan Falls
iP 19 15 27 c

FEBRUARY 9
Resolute
iP 11 18 43 c

FEBRUARY 9
U.S.C.G.S.
4S, 128E
Banda Sea
H = 11 56 12
Ottawa
eP' 12 15 33 d
Resolute
P 12 10 22
Shawinigan Falls
eP' 12 15 32 c

FEBRUARY 9
Shawinigan Falls
eP 20 38 43

FEBRUARY 9
U.S.C.G.S.
4S, 128E
Ceram
H = 23 55 49
Mag 6 1/2 - 6 3/4
Banff
eP' 24 14 13
Halifax
iP' 24 15 09 c
Ottawa
eP' 24 15 00
Resolute
P 24 10 00
i 24 14 24
i 24 20 38
Seven Falls
eP' 24 14 56
Shawinigan Falls
eP' 24 15 02

FEBRUARY 10
Banff
eP 00 32 20

FEBRUARY 10
48°51'N, 123°00'W
Strait of Georgia
H = 16 48 15.0
Mag 1.9
Alberni
iP 16 48 38.1
iS 16 48 53.5
Victoria
iP 16 48 22.7
S 16 48 27.8
compression

FEBRUARY 10
U.S.C.G.S.
15 1/2S, 173W
Samoa Islands region
H = 23 19 55
Victoria
eP 23 31 53

FEBRUARY 11
49°49'N, 123°46'W
Near entrance to Jervis
Inlet
H = 12 35 08.6
Mag 2.5
Alberni
eP 12 35 18.8
Victoria
eP 12 35 34.0
eS 12 35 49.5

FEBRUARY 11
U.S.C.G.S.
34S, 70 1/2W
Chile
H = 12 53 59
h = about 100 km
Halifax
ip 13 05 54 (d)
Ottawa
eP 13 05 57 d
Seven Falls
eP 13 06 06 d
Shawinigan Falls
eP 13 06 03 d

FEBRUARY 11
Canadian Arctic
H = 21 07 05.3
Mag 0.9
Resolute
iP_1 21 07 11.0
iS_1 21 07 15.3
D = 35.3 km

FEBRUARY 13
U.S.C.G.S.
52 1/2N, 169W
Fox Islands
H = 09 36 46
Resolute
P 09 43 49

FEBRUARY 13
48°20'N, 123°41'W
Strait of Juan da
Fuca
H = 11 33 49.5
Mag 1.2
Alberni
eP 11 34 11.1
eS 11 34 27.2
Victoria
iP 11 33 53.5
iS 11 33 57.0

FEBRUARY 13
U.S.C.G.S.
1 1/2N, 127 1/2E
Halmahera
H = 15 41 04
Resolute
P 15 54 53
i 16 05 10

FEBRUARY 13
Ottawa
eP 17 20 23
Resolute
P 17 23 31
Shawinigan Falls
eP 17 20 41

FEBRUARY 13
U.S.C.G.S.
17 1/2S, 70W
Peru
H = 20 40 06
h = 150 km
Banff
eP 20 51 55
Halifax
iP 20 50 11 c
Ottawa
eP 20 50 17
Resolute
P 20 53 06
i 21 03 59

Shawinigan Falls
eP 20 50 24
Victoria
iP 20 52 09

FEBRUARY 14
U.S.C.G.S.
La Rioja Province
Argentina
Halifax
ip 05 32 53 d
i 05 33 28
Shawinigan Falls
iP 05 33 05 d

FEBRUARY 14
U.S.C.G.S.
29S, 177W
Kermadec Islands
H = 15 39 43
Resolute
P' 15 58 28

FEBRUARY 14
U.S.C.G.S.
6S, 75 1/2W
Northern Peru
H = 18 20 46
h = 150 km
Resolute
P 18 32 51
Seven Falls
eP 18 29 56
Shawinigan Falls
eP 18 29 50

FEBRUARY 14
U.S.C.G.S.
Indian Ocean about
800 miles southeast
of Mascarene Islands
Ottawa
iP' 19 48 40 c

DOMINION OBSERVATORIES

FEBRUARY 14
U.S.C.G.S.
18 1/2N, 145 1/2E
Mariana Islands
H = 21 04 36
h = about 200 km
Resolute
P 21 16 25

FEBRUARY 14
U.S.C.G.S.
52N, 171 1/2W
Fox Islands
H = 22 17 54
Resolute
P 22 25 04
Seven Falls
eP 22 28 02

FEBRUARY 15
Resolute
P 04 04 58

FEBRUARY 15
U.S.C.G.S.
12N, 87W
Near coast of Nicaragua
H = 07 36 08
Ottawa
iP 07 43 04 c
Resolute
eP 07 46 36 c
Seven Falls
eP 07 43 28
Shawinigan Falls
eP 07 43 10

FEBRUARY 16
Canadian Arctic
H = 06 46 17.0
h = 11 km ?
Mag 2.7

Resolute
eP_n 06 47 13.5
eP_1 06 47 22.8
eS_n 06 47 55.0
iS_1 06 47 12.9
D = 410 km

FEBRUARY 16
U.S.C.G.S.
32 1/2S, 179 1/2W
Kermadec Islands region
Resolute
P' 05 40 36
Seven Falls
eP' 05 40 50 d
Shawinigan Falls
eP' 05 40 46

FEBRUARY 16
U.S.C.G.S.
22N, 45 1/2W
Atlantic Ocean
H = 13 14 31
Seven Falls
eP 13 21 06
Shawinigan Falls
eP 13 21 11

FEBRUARY 16
U.S.C.G.S.
36N, 141 1/2E
Off east coast of
Honshu, Japan
H = 15 06 14
Resolute
P 15 16 45

FEBRUARY 16
197 km from
Victoria
H = 16 26 48
Victoria
eP 16 27 06.8
iS 16 27 30.9

FEBRUARY 17
U.S.C.G.S.
30S, 112 1/2W
Easter Islands region
H = 12 32 10
Mag 6 1/2
Seven Falls
eP 12 44 51
S 12 55 24
Shawinigan Falls
eP 12 44 45
Victoria
eP 12 44 18

FEBRUARY 17
U.S.C.G.S.
43 1/2N, 145 1/2E
Near east coast of
Hokkaido Japan
H = 16 27 40
Ottawa
eP 16 40 12
Resolute
P 16 37 15
Shawinigan Falls
eP 16 40 12

FEBRUARY 18
U.S.C.G.S.
52 1/2N, 159 E
Near east coast of
Kamchatka
Resolute
P 19 29 59
Shawinigan Falls
eP 19 33 13

FEBRUARY 18
U.S.C.G.S.
52 1/2N, 160E
Near east coast of
Kamchatka
H = 21 35 11
Halifax
ip 21 46 59 d
Ottawa
eP 21 46 31

Resolute
iP 21 43 18 c
S 21 49 46
Shawinigan Falls
eP 21 46 32

FEBRUARY 18
U.S.C.G.S.
52N, 170W
Fox Islands
H = 22 26 10
Halifax
ep 22 37 03
Resolute
P 22 33 19
Shawinigan Falls
eP 22 36 10

FEBRUARY 19
48.7N, 123.7W
Southern Vancouver
Island
H = 00 05 55.5
Mag 2.1
Horseshoe Bay
S - P = 10.1Sec.
Victoria
iP 00 06 00.5
iS 00 06 04.5

FEBRUARY 19
U.S.C.G.S.
60 1/2N, 151 W
Kenai Peninsula
H = 05 09 23
Halifax
ip 05 18 25 c
Ottawa
ip 05 17 37
Resolute
P 05 14 38
Seven Falls
eP 05 17 46
Shawinigan Falls
eP 05 17 40
Victoria
iP 05 13 56

FEBRUARY 19
Canadian Arctic
H = 06 04 29.7
Mag 1.9
Resolute
eP_1 06 05 03.5
eS_1 06 05 28.5
D = 205 km

FEBRUARY 19
U.S.C.G.S.
36 N, 70 1/2E
Hindu Kush
H = 10 36 46
h = 200 km
Alberni
iP 10 49 54
ipP 50 46
Halifax
ep 10 49 27
i 50 22
Ottawa
iP 10 49 44
Resolute
iP 10 47 34 c
i 10 48 24
S 10 56 10
Seven Falls
eP 10 49 30
Shawinigan Falls
eP 10 49 34 c
Victoria
iP 10 49 50
ipP 50 43

FEBRUARY 19
238 km from
Victoria
H = 23 13 02
Mag 2.4
Victoria
iP 23 13 37.3
eS 23 14 06

FEBRUARY 20
U.S.C.G.S.
52N, 159E
Near east coast of
Kamchatka
H = 14 27 10
Resolute
P 14 35 25

FEBRUARY 21
U.S.C.G.S.
42S, 173E
South Island, New
Zealand
H = 00 46 56
h = about 60 km
Ottawa
eP' 01 06 04 c
i 01 09 25
Seven Falls
eP' 01 06 13 c
ePKS 01 09 37
Shawinigan Falls
eP' 01 06 09 c
PKS 01 09 33

FEBRUARY 21
Ottawa
eP 02 22 06
Resolute
P 02 25 31
Seven Falls
eP 02 22 34
Shawinigan Falls
eP 02 22 25

FEBRUARY 21
U.S.C.G.S.
36N, 4 1/2E
Northern Algeria
H = 08 13 31
Ottawa
eP 08 23 36
Resolute
P 08 23 28
Seven Falls
eP 08 23 09

Shawinigan Falls
eP 08 23 19
Victoria
eP 08 26 08

FEBRUARY 21
U.S.C.G.S.
52N, 175W
Aleutian Islands
H = 17 21 59
Ottawa
eP 17 32 15
Resolute
P 17 29 23

FEBRUARY 21
U.S.C.G.S.
2 1/2N, 128 1/2E
Halmahera
H = 22 43 11
Resolute
P 22 56 49

FEBRUARY 22
U.S.C.G.S.
20S, 178 1/2W
Fiji Islands
H = 09 39 26
h = about 600 km
Resolute
P 01 11 51

FEBRUARY 22
Ottawa
eP 01 39 43
Resolute
P 01 42 24

FEBRUARY 23
U.S.C.G.S.
36N, 70E
Afghanistan
H = 02 09 42
Resolute
P 02 20 31
i 02 21 20
Shawinigan Falls
eP 02 22 32

FEBRUARY 23
U.S.C.G.S.
39N, 20E
Greece
H = 07 34 30
Halifax
ip 07 44 43 c
Ottawa
eP 07 45 29
Seven Falls
eP 07 45 03
Shawinigan Falls
eP 07 45 14

FEBRUARY 23
U.S.C.G.S.
39N, 20 1/2E
Greece
H = 07 47 51
Halifax
ep 07 58 05
Ottawa
eP 07 58 50
Seven Falls
eP 07 58 25
Shawinigan Falls
eP 07 58 36

FEBRUARY 23
U.S.C.G.S.
23 1/2N, 121 1/2E
Formosa
H = 08 10 28
Resolute
eP 08 22 33
Victoria
eP 08 23 22

FEBRUARY 23
U.S.C.G.S.
34 1/2N, 139 1/2E
Near south coast of
Honshu, Japan
H = 09 23 37
h = about 100 km
Resolute
eP 09 34 14 c

FEBRUARY 24
U.S.C.G.S.
21 1/2N, 142E
Mariana Islands region
H = 00 03 00
h = about 300 km
Resolute
P 00 14 26

FEBRUARY 24
Canadian Arctic
H = 08 31 38
h = 15 km
Mag 3.6 ?
Resolute
iP_n 08 32 17 d
S_1 08 32 54 ?
D = 270 km ?

FEBRUARY 24
U.S.C.G.S.
7 1/2S, 156E
Solomon Islands
H = 21 37 04
Mag 6 1/2 - 6 3/4
Halifax
ip' 21 56 16
Ottawa
eP' 21 55 59 c
Resolute
P 21 50 59
i 22 04 18
Seven Falls
eP' 21 56 04
Shawinigan Falls
eP' 21 56 02
Victoria
eP 21 50 02

FEBRUARY 25
198 km from
Alberni
H = 11 29 58.3
Alberni
eP 11 30 29.2
S 11 30 53.5

FEBRUARY 25
U.S.C.G.S.
11N, 124E
Cebu, Philippine
Islands
H = 12 45 44
Resolute
P 12 58 46

FEBRUARY 26
U.S.C.G.S.
2 1/2S, 128E
Ceram Sea
H = 01 06 23
Resolute
P 01 20 49

FEBRUARY 26
U.S.C.G.S.
1S, 138E
New Guinea
H = 02 08 31
Resolute
P 02 22 24
i 02 33 01

FEBRUARY 26
48.8N, 123.6W
Southern Vancouver
Island
H = 05 48 46.6
Mag 1.5
Victoria
iP 05 48 51.5 d
iS 05 48 55.2

FEBRUARY 26
U.S.C.G.S.
Chiapas Mexico
H = 21 29 05
Resolute
P 21 38 58
Seven Falls
eP 21 35 39
Shawinigan Falls
eP 21 36 28

FEBRUARY 26
U.S.C.G.S.
51 1/2N, 178W
Aleutian Islands
H = 23 29 25
Alberni
iP 23 36 10
iS 41 21
Banff
eP 23 37 02 d
Halifax
iP 23 40 33 d
Ottawa
P 23 39 52
Resolute
P 23 36 58
i 23 38 34
S 23 43 00
Seven Falls
eP 23 39 59
Shawinigan Falls
eP 23 39 54
Victoria
iP 23 36 18

FEBRUARY 27
U.S.C.G.S.
51 1/2N, 178W
Aleutian Islands
H = 00 07 10
Alberni
eP 00 13 53
Ottawa
P 00 17 37
Resolute
P 00 14 44
i 00 16 50
Seven Falls
eP 00 17 43
Shawinigan Falls
eP 00 17 41
Victoria
iP 00 14 02

FEBRUARY 27
U.S.C.G.S.
51 1/2N, 178W
Aleutian Islands
H = 08 10 03
Banff
eP 08 17 23
Halifax
ip 08 21 12
Ottawa
P 08 20 30
Resolute
P 08 17 38
i 08 19 45
Seven Falls
eP 08 20 36
Shawinigan Falls
eP 08 20 36 d

FEBRUARY 28
Victoria
iP 08 16 55

FEBRUARY 28
U.S.C.G.S.
44 1/2N, 147 1/2E
Kurile Islands
H = 09 34 12
Resolute
P 09 43 41

FEBRUARY 28
U.S.C.G.S.
3S, 142E
New Guinea
H = 23 05 39
Ottawa
P' 23 24 48

Resolute
P 23 19 35
Seven Falls
eP' 23 24 50
Shawinigan Falls
eP' 23 24 50

FEBRUARY 29
U.S.C.G.S.
7 1/2N, 80W
Near south coast of Panama
H = 02 12 04
Ottawa
P 02 19 30
Seven Falls
eP 02 19 51

FEBRUARY 29
U.S.C.G.S.
14N, 120E
Near southwest coast of Luzon P.I.
H = 05 22 53
h = about 150 km
Resolute
iP 05 35 35 c

FEBRUARY 29
U.S.C.G.S.
23 1/2N, 94 1/2E
Western Burma
H = 08 34 30
Resolute
P 08 46 51

FEBRUARY 29
Canadian Arctic
H = 17 49 29.1
Mag 2.0
Resolute
iP_1 17 50 03
eS_1 17 50 28
D = 205 km

FEBRUARY 29
48.8N, 123.6 W
Southern Vancouver Island
H = 18 53 49
Mag 1.5
Victoria
iP 18 53 52.6
iS 18 53 55.4

FEBRUARY 29
U.S.C.G.S.
30N, 9W
Morocco
H = 23 40 12
Alberni
eP 23 52 43
Halifax
eP 23 48 27
Ottawa
eP 23 49 33
Resolute
P 23 50 21
Seven Falls
eP 23 49 06
Shawinigan Falls
eP 23 49 20
Victoria
eP 23 52 40

MARCH 2
U.S.C.G.S.
19N, 101 1/2W
Michoacan, Mexico
H = 00 10 26
Alberni
eP 00 17 30
Ottawa
eP 00 17 10
Resolute
P 00 20 04
S 00 28 08
Seven Falls
eP 00 17 45
Shawinigan Falls
eP 00 17 32
Victoria
iP 00 17 19

MARCH 2
U.S.C.G.S.
17N, 93W
Chiapas, Mexico
H = 04 34 46
Resolute
P 04 44 42

MARCH 2
U.S.C.G.S.
52N, 30W
North Atlantic Ocean
H = 21 56 25
Ottawa
eP 22 02 39
Resolute
P 22 03 13
S 22 08 32
Seven Falls
eP 22 02 05
Shawinigan Falls
eP 22 02 18

MARCH 3
U.S.C.G.S.
7S, 156E
Solomon Islands
H = 01 02 20
Ottawa
eP' 01 21 15
Shawinigan Falls
eP' 01 21 17

MARCH 3
U.S.C.G.S.
11N, 62 1/2W
Near coast of Venezuela
H = 01 42 46
h = 100 km
Resolute
P 01 53 27
Seven Falls
eP 01 49 50
Shawinigan Falls
eP 01 49 49

MARCH 3
U.S.C.G.S.
64 1/2N, 150W
Central Alaska
H = 04 59 20
Ottawa
eP 05 07 23
Resolute
P 05 03 58
Shawinigan Falls
eP 05 07 27

MARCH 3
Resolute
P 11 46 12

MARCH 3
U.S.C.G.S.
40N, 70E
Sinkiang Province China
H = 14 15 02
Resolute
P 14 25 44

MARCH 4
Seven Falls
eP 01 16 52
i 01 23 36

MARCH 4
Resolute
P 01 20 32

MARCH 4
U.S.C.G.S.
50 1/2N, 177W
Andreanof Islands
H = 02 15 56
Alberni
eP 02 22 39
Banff
iP 02 23 16
Halifax
iP 02 27 05 d
Ottawa
iP 02 26 25 d
Resolute
P 02 23 35
Seven Falls
eP 02 26 32
Shawinigan Falls
eP 02 26 29 d
Victoria
eP 02 22 53

MARCH 4
U.S.C.G.S.
31N, 129E
Near south coast of Kyushu, Japan
H = 03 53 00
h = about 100 km
Mag 6 1/2
Alberni
eP 04 04 44
Banff
iP 04 05 03
dilatation
Resolute
P 04 04 09
i- 04 04 42
S 04 13 10
Seven Falls
eP 04 06 40
Victoria
iP 04 04 50

MARCH 4
U.S.C.G.S.
Hokkaido, Japan
H = 11 55 12
Resolute
P 12 05 04

MARCH 4
U.S.C.G.S.
7 1/2N, 94E
Nicobar Islands
H = 21 05 45
Resolute
P 21 19 24

MARCH 5
Canadian Arctic
H = 10 42 41.6
h = 16
Mag 4.5
Resolute
eP_n 10 44 18.0
iP_1 10 44 40.2
iS_n 10 45 25.5
eS_1 10 46 00

MARCH 5
U.S.C.G.S.
29N, 81E
Nepal
H = 11 25 00
Resolute
iP 11 36 52 c

MARCH 5
U.S.C.G.S.
1N, 129E
Halmahera Island
H = 13 49 16
Mag 6 3/4
Resolute
P 14 03 06
Seven Falls
eP' 14 08 29
Shawinigan Falls
eP' 14 08 34

MARCH 5
Resolute
P 14 47 56

MARCH 5
U.S.C.G.S.
1N, 129E
Halmahera aftershock
H = 15 49 53
Resolute
P 16 03 42

DOMINION OBSERVATORIES

MARCH 5
U.S.C.G.S.
29N, 81E
Nepal
H = 23 50 38
Resolute
P 24 02 28

MARCH 6
U.S.C.G.S.
1N, 129E
Halmahera aftershock
H = 02 22 06
Resolute
P 02 35 55
Seven Falls
eP' 02 41 21
Shawinigan Falls
eP' 02 41 21

MARCH 6
U.S.C.G.S.
24N, 108W
Gulf of California
H = 04 11 54
Mag 5 - 5 1/4
Ottawa
eP 04 18 39
Resolute
P 04 20 59
S 04 28 20
Seven Falls
eP 04 19 15
Shawinigan Falls
eP 04 19 06
Victoria
eP 04 17 41

MARCH 6
Resolute
P 06 31 10

MARCH 6
Resolute
P 07 04 20

MARCH 6
U.S.C.G.S.
Kurile Islands
H = 07 56 28
Resolute
P 08 05 55

MARCH 6
Resolute
P 10 32 52

MARCH 6
Canadian Arctic
H = 10 50 56.3
Mag 2.3 ?
Resolute
iP_1 10 51 09.5 c
S_1 10 51 19.5 ?
D = 32 km ?

MARCH 6
Resolute
P 11 46 11

MARCH 7
Resolute
P 02 36 34

MARCH 7
U.S.C.G.S.
1 1/2N, 125 1/2E
Celebes
H = 05 13 10
Halifax
ep' 05 32 28
Ottawa
eP' 05 32 21
Resolute
iP 05 26 58 c
Seven Falls
eP' 05 32 20
Shawinigan Falls
eP' 05 32 21

MARCH 7
U.S.C.G.S.
52N, 153E
Off southwest coast
of Kamchatka
H = 06 11 38
h = 100 km
Halifax
ip 06 23 31.0 c
ip 06 23 31.2 d
Ottawa
iP 06 23 06 d
Resolute
iP 06 19 57 d
Seven Falls
eP 06 23 07 d
Shawinigan Falls
eP 06 23 07

MARCH 7
U.S.C.G.S.
23 1/2N, 123 1/2E
Ryukyu Islands
H = 11 34 23
Resolute
P 11 46 27

MARCH 7
U.S.C.G.S.
24 1/2N, 125E
Ryukyu Islands
H = 15 47 50
Resolute
P 15 59 46

MARCH 8
U.S.C.G.S.
65S, 179 1/2E
Antarctic Ocean
H = 11 51 10
Resolute
P_1' 12 10 58

MARCH 8
Banff
eP 14 15 23

SEISMOLOGICAL BULLETIN - 1960

MARCH 8
U.S.C.G.S.
16 1/2S, 168 1/2E
New Hebrides Islands
H = 16 33 38
Alberni
iP 16 46 06
Banff
iP 16 46 33 c
Halifax
ip' 16 52 18 d
i 16 55 37
Ottawa
eP 16 48 34
i 16 51 55
i 17 02 10
Resolute
iP 16 47 33 d
i 16 51 38
i 16 53 24
i 16 57 50
i 16 58 42
Seven Falls
eP 16 48 47
i 16 52 27 d
i 17 02 01
Shawinigan Falls
iP' 16 52 04 d
i 16 53 37
Victoria
iP 16 46 09
ePP 16 49 30
iS 16 56 34

MARCH 8
Resolute
iP 17 02 53 d
i 17 03 07

MARCH 8
Victoria
eP 17 11 52

MARCH 9
Ottawa
eP 22 26 14

MARCH 9
U.S.C.G.S.
16S, 72W
Southern Peru
H = 23 54 20
h = 150 km
Banff
eP 24 06 07
Halifax
iP 24 04 28
Ottawa
eP 24 04 30
Resolute
P 24 07 21
i 24 18 12
Seven Falls
eP 24 04 43 d
Shawinigan Falls
ip 24 04 38 d
Victoria
iP 24 06 20

MARCH 10
Alberni
eP 00 15 25

MARCH 10
U.S.C.G.S.
64N, 149W
Central Alaska
H = 00 24 20
Banff
eP 00 29 13
Ottawa
eP 00 32 24
Resolute
P 00 29 02
Shawinigan Falls
eP 00 32 26

MARCH 10
Resolute
P 01 00 22

MARCH 10
Alberni
iP 02 06 49
iS 07 15
Banff
eP 02 08 09
Resolute
P 02 11 46
Victoria
iP 02 07 06
e 44
e 08 39

MARCH 10
U.S.C.G.S.
7 1/2N, 126E
Mindanao, P.I.
H = 09 10 47
Resolute
P 09 24 11

MARCH 10
U.S.C.G.S.
10S, 161E
Solomon Islands
H = 09 44 57
Ottawa
eP' 10 03 52

MARCH 10
U.S.C.G.S.
15S, 174W
Samoa Islands region
H = 13 44 25
Alberni
eP 13 56 21
Banff
iP 13 56 52 d
Resolute
eP 13 58 18 c
Victoria
iP 13 56 23

DOMINION OBSERVATORIES

MARCH 10
U.S.C.G.S.
47N, 152E
Kurile Islands
H = 14 32 39
h = 100 km
Alberni
eP 14 41 49
Banff
iP 14 42 17
Ottawa
eP 14 44 35
Resolute
P 14 41 33
Seven Falls
eP 14 44 36
Victoria
eP 14 41 59

MARCH 10
U.S.C.G.S.
14 1/2N, 91 1/2W
Guatemala
H = 18 55 55
h = 100 km
Ottawa
eP 19 02 31
Resolute
P 19 05 56
Victoria
eP 19 03 45

MARCH 11
Resolute
P 04 52 38
Victoria
iP 04 52 05

MARCH 11
Resolute
P 12 05 33

MARCH 11
U.S.C.G.S.
18 1/2N, 145E
Mariana Islands
H = 13 11 10
h about 200 km
Resolute
P 13 23 00

MARCH 12
Victoria
eP 02 12 46

MARCH 12
52 km from Alberni
H = 07 22 44
Mag 2.0
Alberni
iP 07 22 52.0
iS 58.3

MARCH 12
Horseshoe Bay
iP 11 06 32

MARCH 12
U.S.C.G.S.
42N, 21E
Southern Yugoslavia
H = 11 54 00
Banff
eP 12 06 08
Ottawa
iP 12 04 49 c
Resolute
P 12 03 42
Seven Falls
eP 12 04 23
Shawinigan Falls
ep 12 04 30
Victoria
eP 12 06 37

MARCH 12
U.S.C.G.S.
South Carolina,
U.S.A.
H = 12 47 40
Ottawa
iP 12 50 42 d
Seven Falls
eP 12 51 30

MARCH 12
U.S.C.G.S.
36 1/2S, 71W
Chile-Argentina
border
H = 13 47 52
h about 150 km
Shawinigan Falls
ep 14 00 02

MARCH 12
Nova Scotia
H = 16 17 35.6
Halifax
iP_1 16 17 58.8
iS_1 16 18 16.3
D = 144 km

MARCH 12
Canadian Arctic
H = 18 49 50.5
Mag 1.6
Resolute
iP_1 18 50 03.5
iS_1 18 50 13.4
D = 81.2 km

MARCH 12
Resolute
P 19 55 32

MARCH 12
U.S.C.G.S.
6S, 152E
New Britain
H = 20 30 39
Mag 6 1/2
Alberni
iP 20 43 45
Banff
iP 20 44 12
Halifax
P' 20 49 57
Horseshoe Bay
eP 20 43 48
Ottawa
eP' 20 49 40
Resolute
P 20 44 36
i 20 48 40
i 20 55 12
Seven Falls
eP' 20 49 44
Shawinigan Falls
eP' 20 49 43 (c)
Victoria
eP 20 43 48

MARCH 13
U.S.C.G.S.
42N, 143E
Near south coast of
Hokkaido Japan
H = 02 23 37
Resolute
P 02 33 19

MARCH 13
U.S.C.G.S.
Near coast of
Oaxaca Mexico
H = 11 46 40
Ottawa
eP 11 53 33

MARCH 13
Resolute
P 19 04 04

MARCH 13
U.S.C.G.S.
7 1/2N, 77W
Panama-Columbia
border
H = 23 53 32
h about 60 km
Mag 6 - 6 1/4
Ottawa
eP 24 00 48
Resolute
P 24 04 27
Seven Falls
eP 24 01 05
Shawinigan Falls
eP 24 00 59

MARCH 14
U.S.C.G.S.
42 1/2N, 143E
Hokkaido Japan
H = 00 52 57
Ottawa
eP 01 05 39
Resolute
P 01 02 44

MARCH 14
U.S.C.G.S.
41 1/2N, 142E
Near coast of
Northern Honshu
Japan
H = 19 01 35
Resolute
P 19 11 33

MARCH 14
U.S.C.G.S.
44 1/2N, 129 1/2W
Off coast of Oregon
H = 19 17 45
19 17 27 USCGS
Mag 4.1
Alberni
eP 19 18 57.1
e 19 02.8
Horseshoe Bay
iP 19 19 06.8
S 20 22.0
Resolute
P 19 24 14
Seven Falls
eP 19 25 05

MARCH 14
45N, 128W
Off coast of Oregon
H = 20 57 23
Mag 4.4
Alberni
iP 20 58 34.4
S 59 39.6
Horseshoe Bay
iP 20 58 43.6
iS 59 57.2
Resolute
P 21 03 49
Victoria
iP 20 58 31.8
S 59 39.3

MARCH 15
U.S.C.G.S.
51N, 174 1/2W
Andreanof Islands
H = 09 20 56
Halifax
ip 09 31 58
Ottawa
iP 09 31 15 d
Resolute
P 09 28 27
i 09 30 35

Seven Falls
eP 09 31 22
Shawinigan Falls
ip 09 31 19 (c)

MARCH 15
Nova Scotia
H = 16 07 43.2
Halifax
iP_1 16 07 49.5
iS_1 16 07 54.3
D = 39.4 km

MARCH 15
Resolute
P 22 43 37

MARCH 16
U.S.C.G.S.
59 1/2S, 26W
Sandwich Islands
H = 00 33 05
Resolute
P' 00 52 26

MARCH 16
U.S.C.G.S.
15 1/2S, 173 1/2W
Samoa Islands region
H = 17 39 16
Resolute
P 17 53 12
i 18 04 54
i 18 11 44

MARCH 16
Horseshoe Bay
eP 18 51 12

MARCH 16
Resolute
P 21 09 40

MARCH 17
Resolute
P 01 17 55

MARCH 17
47.6N, 122.1W
East of Seattle
Washington
H = 18 08 10
Mag 2.1
Horseshoe Bay
iP 18 08 42.5
S 09 08.2
Victoria
eP 18 08 32.5
S 49.9

MARCH 17
U.S.C.G.S.
51N, 180
Andreanof Islands
H = 20 13 58
Resolute
P 20 21 38

MARCH 18
U.S.C.G.S.
15N, 90W
Guatemala
H = 01 14 53
h = 150 km
Horseshoe Bay
iP 01 22 47
dilatation
Ottawa
eP 01 21 17
Resolute
P 01 24 45
Seven Falls
eP 01 21 45
Shawinigan Falls
ep 01 21 34
Victoria
eP 01 22 43

MARCH 18
Horseshoe Bay
eP 14 21 23
Victoria
eP 14 21 20

MARCH 19
Resolute
P 00 01 25

MARCH 19
Resolute
P 01 37 21

MARCH 19
U.S.C.G.S.
2 1/2N, 127E
Molucca Passage
H = 09 20 51
Resolute
P 09 34 40

MARCH 19
U.S.C.G.S.
3S, 138E
New Guinea
H = 19 15 37
Resolute
P 19 29 35
S 19 43 10

MARCH 20
Resolute
P 13 29 04

MARCH 20
Resolute
eP 13 44 29 c

MARCH 20
U.S.C.G.S.
40N, 143 1/2E
Off northeast coast
of Honshu Japan
H = 13 36 54
h about 60 km
Resolute
eP 13 46 56 c

MARCH 20
U.S.C.G.S.
Near east coast
of Honshu Japan
H = 13 44 25
Resolute
P 13 54 40

MARCH 20
Resolute
P 14 11 15

MARCH 20
U.S.C.G.S.
40N, 143 1/2E
Off northeast coast
of Honshu, Japan
H = 17 07 30
h about 60 km
Mag 7
Alberni
eP 17 17 53
Banff
eP 17 17 23
Horseshoe Bay
eP 17 18 01
Ottawa
eP 17 20 21
Resolute
eP 17 17 32 c
iS 17 25 40
Seven Falls
eP 17 20 22
Shawinigan Falls
ep 17 20 20
Victoria
eP 17 18 00
eS 26 23
i 27 50
eL 34.6

MARCH 20
Resolute
P 18 56 55

MARCH 20
Resolute
eP 20 28 10 c

MARCH 20
U.S.C.G.S.
40N, 143E
Near east coast of
Honshu Japan
H = 21 36 38
Resolute
P 21 46 42

MARCH 20
Resolute
P 23 01 02

MARCH 20
Resolute
P 23 09 50

MARCH 20
U.S.C.G.S.
17N, 46 1/2W
North Atlantic Ocean
H = 23 28 28
Resolute
P 23 39 01
Seven Falls
eP 23 35 37
Shawinigan Falls
ep 23 35 41

MARCH 20
Resolute
P 23 46 01

MARCH 21
Resolute
P 00 01 07

MARCH 21
U.S.C.G.S.
39 1/2N, 143E
Near east coast of
Honshu Japan
H = 00 34 50
Mag 6 1/2
Ottawa
eP 00 47 45
Resolute
iP 00 44 56 c
S 00 53 08
Seven Falls
eP 00 47 47

MARCH 21
U.S.C.G.S.
40N, 142 1/2E
Near east coast of
Honshu Japan
H = 04 43 22
Resolute
P 04 53 24

MARCH 21
Resolute
P 05 10 10

MARCH 21
U.S.C.G.S.
40N, 143 1/2E
Near east coast of
Honshu Japan
H = 05 54 16
Resolute
P 06 04 21

MARCH 21
U.S.C.G.S.
40N, 143 1/2E
Near east coast of
Honshu Japan
H = 06 51 29
Resolute
P 07 01 32

MARCH 21
Resolute
P 03 32 08

MARCH 21
Resolute
P 03 22 58

MARCH 21
U.S.C.G.S.
40N, 143E
Near east coast of
Honshu, Japan
H = 09 18 22
Horseshoe Bay
eP 09 28 47
Ottawa
eP 09 31 16
Resolute
eP 09 28 27 c
S 09 36 36
Seven Falls
eP 09 31 16
Shawinigan Falls
ep 09 31 18
Victoria
eP 09 28 56

MARCH 21
Resolute
P 11 15 20

MARCH 21 40
U.S.C.G.S.
21S, 70 1/2W 54
Near coast of
Chile 50
H = 19 48 56

Halifax
P 19 59 40
Seven Falls
eP 19 59 54
Shawinigan Falls
ep 19 59 50

MARCH 21
Horseshoe Bay
iP 20 07 28

MARCH 21
Resolute
P 22 09 47

MARCH 21
U.S.C.G.S.
39 1/2N, 143 1/2E
Near east coast of
Honshu, Japan
H = 22 56 58
Resolute
P 23 07 05

MARCH 21
U.S.C.G.S.
39 1/2N, 143E
Near east coast of
Honshu, Japan
H = 23 21 43
Penticton
eP 23 32 29
Resolute
P 23 31 50 c

MARCH 22
Resolute
P 00 31 05

MARCH 22
U.S.C.G.S.
39 1/2N, 143E
Near east coast of
Honshu, Japan
H = 00 51 52

Resolute
P 01 01 59

MARCH 22
49°03'N, 122°14'W
Sumas Region
H = 01 13 48
Mag 1.8
Alberni
eP 01 14 18.4
eS 40.9
Horseshoe Bay
iP 01 14 02
S 29
Victoria
eP 01 14 04.4
eS 16.8

MARCH 22
U.S.C.G.S.
16N, 97 1/2W
Near coast of Oaxaca
Mexico
H = 01 48 24
Banff
eP 01 55 45
Halifax
P 01 56 11
Ottawa
eP 01 55 19
Penticton
eP 01 55 45
Resolute
eP 01 58 26 c
Seven Falls
eP 01 55 52
Shawinigan Falls
ep 01 55 40

MARCH 22
U.S.C.G.S.
61 1/2S, 154E
About 400 miles north
west of Balleny Islands
H = 02 31 17

Ottawa
eP_1' 02 51 02
Resolute
P_1' 02 51 08
Seven Falls
eP_1' 02 51 12
Shawinigan Falls
eP_1' 02 51 08

MARCH 22
48°44'N, 123°15'W
South Pender Island
H = 10 31 51.9
Mag 1.9
Alberni
eP 10 32 12.7
iS 23.9
Horseshoe Bay
iP 10 32 03.2
iS 12.8
Victoria
iP 10 31 56.2
iS 32 00.2
i 03.7

MARCH 22
U.S.C.G.S.
Jalisco Mexico
H = 13 19 52
Mag 5 1/2 - 5 3/4
Banff
eP 13 26 15
Penticton
eP 13 26 09
Resolute
P 13 29 14
S 13 37 07

MARCH 22
Resolute
P 20 03 57

MARCH 22
Penticton
eP 20 14 52

MARCH 22
Banff
eP 20 15 00

MARCH 22
Shawinigan Falls
eP 20 32 33

MARCH 22
U.S.C.G.S.
Near coast of
Western Java
H = 21 12 42
h = about 150 km
Penticton
eP' 21 31 27

MARCH 23
U.S.C.G.S.
39 1/2N, 143E
Near east coast of
Honshu, Japan
H = 00 23 22
Alberni
eP 00 33 55
Banff
eP 00 34 17
Halifax
ep 00 36 38
Horseshoe Bay
eP 00 33 55
Ottawa
eP 00 36 18
Penticton
eP 00 34 05
Resolute
P 00 33 27
S 00 41 40
Seven Falls
eP 00 36 21
Shawinigan Falls
ep 00 36 17
ip 00 36 24
Victoria
eP 00 33 58

MARCH 23
U.S.C.G.S.
39 1/2N, 143E
Near east coast of
Honshu, Japan
H = 01 07 15

Alberni
iP 01 17 43
Banff
eP 01 18 07
Halifax
ep 01 20 35
Horseshoe Bay
eP 01 17 47
Ottawa
eP 01 20 10
Penticton
eP 01 18 00
Resolute
P 01 17 21
Seven Falls
eP 01 20 12
Victoria
iP 01 17 50

MARCH 23
Resolute
P 01 36 20

MARCH 23
Banff
eP 01 47 07
Halifax
ip 01 50 37
Horseshoe Bay
eP 01 46 42
Ottawa
eP 01 50 19
Resolute
P 01 47 44
Seven Falls
eP 01 50 27

MARCH 23
Resolute
P 01 55 46

MARCH 23
U.S.C.G.S.
39 1/2N, 143E
Near east coast of
Honshu, Japan
H = 01 51 37
Horseshoe Bay
eP 02 02 10
Penticton
eP 02 02 23

DOMINION OBSERVATORIES

Resolute
P 02 01 44
Victoria
eP 02 02 13

MARCH 23
Resolute
eP 02 19 15 c

MARCH 23
Banff
eP 03 17 03
Horseshoe Bay
eP 03 17 34
Penticton
eP 03 17 02
e 18 39
i 19 05
Victoria
eP 03 17 30

MARCH 23
Resolute
P 05 15 33

MARCH 23
Resolute
P 06 48 45

MARCH 23
Resolute
P 07 00 44

MARCH 23
Resolute
P 07 29 41

MARCH 23
Resolute
P 08 00 51

MARCH 23
U.S.C.G.S.
40N, 142 1/2E
Near east coast of
Honshu, Japan
H = 08 46 44
Horseshoe Bay
eP 08 57 14
Penticton
eP 08 57 27
Resolute
eP 08 56 48 c
Victoria
eP 08 57 26

MARCH 23
U.S.C.G.S
39 1/2N, 143E
Near east coast of
Honshu, Japan
H = 10 29 01
Resolute
P 10 39 00
S 10 47 15

MARCH 23
U.S.C.G.S
39 1/2N, 143E
Near east coast of
Honshu, Japan
H = 11 51 00
Resolute
P 12 01 07

MARCH 23
U.S.C.G.S.
39N, 144E
Near east coast of
Honshu, Japan
H = 16 01 13
Penticton
eP 16 11 50
Resolute
P 16 11 14

MARCH 23
Resolute
P 17 02 51

MARCH 23
U.S.C.G.S.
32 1/2N, 103 1/2E
Szechwan Province
China
H = 20 03 47
Penticton
eP 20 16 45
Resolute
eP 20 15 12 c

MARCH 23
U.S.C.G.S.
39 1/2N, 143 1/2E
Near east coast of
Honshu, Japan
H = 21 34 19
Penticton
eP 21 45 04
Resolute
eP 21 44 27 c

MARCH 23
U.S.C.G.S.
39 1/2N, 143E
Near east coast of
Honshu, Japan
H = 22 22 36
Mag 6
Ottawa
eP 22 35 36
Penticton
eP 22 33 24
Resolute
P 22 32 44
S 22 40 58
Victoria
eP 22 33 09

MARCH 23
U.S.C.G.S.
40N, 143E
Near east coast of
Honshu, Japan
H = 22 51 41
Resolute
P 23 01 46

MARCH 23
Resolute
P 23 29 58

MARCH 23
U.S.C.G.S.
39N, 143E
Near east coast of
Honshu, Japan
H = 23 26 15
Resolute
P 23 35 25

MARCH 24
Resolute
P 02 36 07

MARCH 24
U.S.C.G.S.
50N, 175 1/2W
Andreanof Islands
H = 02 57 01
Halifax
ip 03 08 07
Horseshoe Bay
iP 03 03 43
Ottawa
eP 03 07 25 d
Penticton
eP 03 04 01

MARCH 24
U.S.C.G.S.
47N, 152 1/2E
Kurile Islands
H = 05 54 28
Horseshoe Bay
iP 06 03 51 d
Penticton
iP 06 04 05
Resolute
eP 06 03 30 d
Victoria
iP 06 03 54

MARCH 24
U.S.C.G.S.
50 1/2N, 173W
Andreanof Islands
H = 09 56 00
Horseshoe Bay
eP 10 02 25
Ottawa
eP 10 06 14
Penticton
eP 10 02 43
Seven Falls
eP 10 06 20

MARCH 24
Resolute
P 10 08 47

MARCH 24
Horseshoe Bay
iP 10 40 46

MARCH 24
Resolute
P 12 31 35

MARCH 24
Banff
eP 14 13 03
Horseshoe Bay
iP 14 13 23
Penticton
eP 14 13 09
Resolute
P 14 15 08

MARCH 24
U.S.C.G.S.
40N, 142 1/2W
Near east coast of
Honshu, Japan
H = 20 02 44
Resolute
eP 20 12 49c

MARCH 25
U.S.C.G.S.
19S, 177 1/2W
Fiji Islands
H = 02 28 56
Banff
eP 02 41 03
Horseshoe Bay
iP 02 40 45
Penticton
eP 02 40 53
Victoria
iP 02 40 42

MARCH 25
41 km from Victoria
H = 07 01 51.2
Mag 1.3
Victoria
iP 07 01 57.8
iS 02 02.8

MARCH 25
Resolute
eP 11 13 56 c

DOMINION OBSERVATORIES

MARCH 25
Resolute
eP 11 26 21 c

MARCH 26
Resolute
P 12 02 18

MARCH 27
48°54'N, 123°18'W
Strait of Georgia
H = 01 39 21.3
Mag 2.5
Alberni
iP_1 01 39 37.4
iP_n 40.3
iS 52.6
Victoria
iP 01 39 25.0
iS 31.4

MARCH 27
U.S.C.G.S.
13 1/2S, 166E
New Hebrides
H = 03 48 27
Mag 6 1/4
Alberni
iP 04 01 15
Banff
iP 04 01 46
Halifax
iP' 04 07 35
Ottawa
ip' 04 07 19 c
Penticton
eP 04 01 31
Resolute
P 04 02 38
i 04 13 18
S 04 14 32
Seven Falls
eP' 04 07 25
Shawinigan Falls
ip' 04 07 19 c
Victoria
iP 04 01 20

MARCH 27
U.S.C.G.S.
13 1/2S, 166 1/2E
New Hebrides
H = 08 57 53
Mag 6 1/2
Alberni
iP 09 10 43
Banff
eP 09 11 13
Halifax
iP' 09 17 02
Ottawa
ep' 09 16 45.5
i 09 28 06
Penticton
eP 09 10 59
Resolute
P 09 12 06
S 09 24 04
Seven Falls
eP' 09 16 51
Shawinigan Falls
ep' 09 16 46
Victoria
iP 09 10 47

MARCH 27
U.S.C.G.S.
30 1/2S, 178W
Kermadec Islands
H = 17 24 41
Resolute
P' 17 43 26

MARCH 27
U.S.C.G.S.
13S, 166E
New Hebrides
H = 19 35 25
Penticton
eP 19 48 27

MARCH 27
U.S.C.G.S.
20N, 104 1/2W
Jalisco Mexico
H = 20 15 46
Mag 6
Banff
eP 20 22 14
Halifax
ip 20 23 39.5 d
Horseshoe Bay
iP 20 22 24
Ottawa
ip 20 22 41 d
e 20 35 18
Penticton
eP 20 22 15
Resolute
P 20 25 17
S 20 33 10
Seven Falls
eP 20 23 13
Shawinigan Falls
ip 20 23 01 d
Victoria
eP 20 22 15

MARCH 27
Ottawa
ip 21 25 33
Seven Falls
eP 21 26 04

MARCH 27
37 1/2S, 177E
Off coast of north island N.Z.
H = 23 28 04
Ottawa
ip' 23 47 06 c
Seven Falls
eP' 23 46 56
e 23 47 13
Shawinigan Falls
ep' 23 47 09
i 23 49 30
i 23 50 09

MARCH 28
Resolute
P 00 17 45

MARCH 28
U.S.C.G.S.
7 1/2N, 82W
Off south coast of Panama
H = 00 13 38
Mag 6 1/4 - 6 1/2
Banff
eP 00 22 44
Halifax
ip 00 21 19 c
Horseshoe Bay
eP 00 23 10
Ottawa
ip 00 21 00 c
i 00 22 34
Penticton
eP 00 22 52
Resolute
eP 00 24 35 c
S 00 33 32
Seven Falls
eP 00 21 21
Shawinigan Falls
ip 00 21 13 c
Victoria
eP 00 23 03

MARCH 28
U.S.C.G.S.
13 1/2S, 165E
New Hebrides Islands
H = 06 36 27
h = 300 km
Horseshoe Bay
iP 06 48 54
Ottawa
eP' 06 54 50 c
Penticton
eP 06 49 04
Seven Falls
eP' 06 54 56
Shawinigan Falls
eP' 06 54 52 c

MARCH 28
U.S.C.G.S.
13 1/2S, 166E
New Hebrides Islands
H = 06 39 32
Alberni
eP 06 52 28
Horseshoe Bay
iP 06 52 26
Ottawa
eP' 06 58 24
Seven Falls
eP' 06 58 32
Shawinigan Falls
eP' 06 58 27

MARCH 28
U.S.C.G.S.
13 1/2S, 166E
New Hebrides Islands
H = 06 42 44
Alberni
eP 06 55 35
Horseshoe Bay
iP 06 55 39
Ottawa
eP' 07 01 37
Penticton
eP 06 55 48
Resolute
eP' 07 02 06
Seven Falls
eP' 07 01 43
Shawinigan Falls
eP' 07 01 37

MARCH 28
48°44'N, 123°12'W
South Pender Island
H = 07 25 44.6
Mag 1.2
Horseshoe Bay
iP 07 25 56.0
iS 26 04.6
Victoria
iP 07 25 49.1
iS 52.6

MARCH 28
U.S.C.G.S.
23S, 176W
Tonga Islands region
H = 12 37 50
Penticton
eP 12 50 43

MARCH 28
U.S.C.G.S.
58N, 32 1/2W
North Atlantic Ocean
H = 20 48 45
Halifax
ip 20 54 03
Ottawa
ip 20 54 51 c
Penticton
eP 20 57 35
Resolute
P 20 54 39
Seven Falls
eP 20 54 17
Shawinigan Falls
ep 20 54 30 c

MARCH 29
U.S.C.G.S.
33 1/2S, 177 1/2W
Kermadec Island region
H = 00 10 45
Resolute
P' 00 29 36

MARCH 29
Resolute
P 05 22 47

MARCH 29
U.S.C.G.S.
17S, 167E
New Hebrides Islands
H = 06 30 54
Mag 6 3/4
Halifax
iP' 06 50 (07)

DOMINION OBSERVATORY

Horseshoe Bay
eP 06 44 05
Ottawa
ip' 06 49 50 (c)
e 06 51.2
Resolute
P 06 45 25
e 06 49 26
e 06 56 02
eS 06 57 30
Seven Falls
eP' 06 49 57 c
Shawinigan Falls
ep' 06 49 56 c
Victoria
eP 06 43 44

MARCH 29
Resolute
P 16 13 01

MARCH 29
Resolute
P 20 44 26

MARCH 29
Resolute
P 21 18 57

MARCH 29
U.S.C.G.S.
6S, 147E
East coast of
New Guinea
H = 22 10 20
Ottawa
e(P') 22 29 (26)
e 22 43.1
Shawinigan Falls
e(P') 22 29 (26)

MARCH 30
Resolute
P 00 44 50

MARCH 30
U.S.C.G.S.
51N, 178 1/2W
Andreanof Islands
H = 06 58 36
Penticton
eP 07 05 47

MARCH 30
U.S.C.G.S.
17S, 167 1/2E
New Hebrides Islands
H = 09 38 08
Resolute
e 09 58 42
Shawinigan Falls
ep' 09 57 07

MARCH 30
U.S.C.G.S.
13 1/2S, 166E
New Hebrides Islands
H = 10 49 47
Mag 6
Alberni
eP 11 02 38
Banff
eP 11 03 09
Halifax
ip' 11 08 57
Horseshoe Bay
iP 11 02 43
Ottawa
ip' 11 08 39 d
Penticton
eP 11 02 52
Seven Falls
eP' 11 08 44
Shawinigan Falls
ep' 11 08 42
Victoria
eP 11 02 41

MARCH 30
Resolute
P 12 52 10

MARCH 30
U.S.C.G.S.
69N, 17W
Off east coast of
Greenland
H = 12 58 57
Resolute
P 13 04 05

MARCH 30
U.S.C.G.S.
3 1/2S, 102E
Near coast of
Sumatra
H = 14 11 40
Penticton
eP' 14 30 37

MARCH 30
U.S.C.G.S.
22 1/2S, 174E
Loyalty Islands region
H = 15 19 30
Halifax
ip' 15 38 39
Horseshoe Bay
eP 15 33 37
Penticton
eP 15 32 46
Resolute
P' 15 38 05
Shawinigan Falls
ep' 15 38 27 d
Victoria
iP 15 33 36

MARCH 31
Penticton
eP 00 51 41
Resolute
P 00 51 42

MARCH 31
Resolute
P 01 58 02
Shawinigan Falls
ep 01 55 37

MARCH 31
U.S.C.G.S.
39 1/2N, 143E
Off northeast coast of
Honshu, Japan
H = 03 02 03
Resolute
ep 03 12 10 c

MARCH 31
U.S.C.G.S.
40N, 143 1/2E
Off northeast coast
Honshu, Japan
H = 06 13 35
Resolute
P 06 23 39

MARCH 31
49.2N, 128.6W
Off west coast of
Vancouver Island
H = 11 41 49
Mag 3.9
Alberni
iP 11 42 29.6
eS 43 03.0
Horseshoe Bay
iP 11 42 45.2
Ottawa
P 11 48 47.5
Resolute
P 11 47 52
Seven Falls
eP 11 49 08
Shawinigan Falls
ep 11 49 01
Victoria
iP 11 42 43.8
eS 43 40

MARCH 31
U.S.C.G.S.
Pacific Ocean about
900 miles southwest of
Galapagos Islands
H = 15 04 36
Resolute
P 15 16 39

MARCH 31
U.S.C.G.S.
39 1/2N, 143E
Off northeast coast of
Honshu, Japan
H = 15 48 13
Resolute
P 15 58 19

MARCH 31
U.S.C.G.S.
40N, 143E
Off northeast coast of
Honshu, Japan
H = 17 29 40
Resolute
ep 17 39 45 c

MARCH 31
U.S.C.G.S.
26N, 110W
Gulf of California
H = 19 56 14
Mag 5 1/2 - 5 3/4
Alberni
eP 20 01 14
Banff
eP 20 01 33
Horseshoe Bay
iP 20 01 21
Ottawa
ip 20 03 02 c
i 20 08 35.5
Penticton
eP 20 01 35
Resolute
P 20 05 04
eS 20 12 09
Seven Falls
eP 20 03 33
Shawinigan Falls
ep 20 03 23
Victoria
iP 20 02 40

MARCH 31
U.S.C.G.S.
41 1/2N, 142E
Near north coast of
Honshu, Japan
H = 21 32 44
Resolute
ip 21 42 37 c

DOMINION OBSERVATORY

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the first quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin. Some of these events, such as those of February 16 and March 5, are, almost certainly, small earthquakes. Many minor disturbances are well recorded because of the great sensitivity of the short period vertical seismograph (see calibration curves near the front). Most or all of these minor events may be caused by ice cracking etc. However, they will be included in these lists unless further research shows them to be unimportant.

JANUARY 18 at 05 20 59 U.T. Magnitude 1.4. Originated 49.2 km from Resolute, N.W.T.

JANUARY 20 at 06 20 59 U.T. Magnitude 1.3. Originated 54.4 km from Resolute, N.W.T.

JANUARY 20 at 23 18 23 U.T. Magnitude 2.0. Originated 46.7 km from Resolute, N.W.T.

FEBRUARY 11 at 21 07 05 U.T. Magnitude 0.9. Originated 35.3 km from Resolute, N.W.T.

FEBRUARY 16 at 06 46 17 U.T. Magnitude 2.7. Originated 410 km from Resolute, N.W.T. at a depth of about 11 km.

FEBRUARY 19 at 06 04 30 U.T. Magnitude 1.9. Originated 205 km from Resolute, N.W.T.

FEBRUARY 24 at 08 31 38 U.T. Magnitude 3.6. Originated 270 km from Resolute, N.W.T.

FEBRUARY 29 at 17 49 29 U.T. Magnitude 2.0. Originated 205 km from Resolute, N.W.T.

MARCH 5 at 10 42 42 U.T. Magnitude 4.5. Originated 720 km from Resolute, N.W.T. at a depth of about 16 km.

MARCH 6 at 10 50 56 U.T. Magnitude 2.3. Originated 82 km from Resolute, N.W.T.

MARCH 12 at 18 49 51 U.T. Magnitude 1.6. Originated 81 km from Resolute, N.W.T.

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the first quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin. Some of these events, such as those of January 20 and February 6, are almost certainly small earthquakes. Others, such as that on January 4, are almost certainly blasts. During 1960 an intensive effort is being made to identify blast sources with a view to eliminating such data from these lists and assisting in the re-evaluation of past records. Ottawa records (S_1-P_1 = 17.2 sec.) of blasts from a single mine in neighbouring New York State have accounted for up to twenty entries herein each year. Such data can greatly distort the earthquake statistics for the area. Accordingly, suspected blasts will be so designated, and when their source has been satisfactorily established, future occurrences will not be listed.

JANUARY 4 at 21 02 57 U.T. Magnitude 2.0. Originated 111 km from Ottawa, Ontario. May be a blast.

JANUARY 20 at 20 07 40 U.T. Magnitude 3.7. Epicentre at 46°58'N; 75°40'W. About five miles east of the northern arm of Baskatong Lake, Quebec. There is some evidence to suggest that the focus may have been at a depth of about 15 km.

JANUARY 22 at 20 53 22 U.T. Magnitude 3.4. Epicentre at 41 1/2°N; 75 1/2°W. North of Scranton, Pennsylvania. May be a large blast.

FEBRUARY 6 at 09 44 02 U.T. Magnitude 3.3 Epicentre at 47°48'N; 70°23'W. This position is about 15 miles up Riviere Malbaie, Quebec. However because of uncertainties in the location it may actually be in the Saint Lawrence at the mouth of Riviere Malbaie.

MARCH 12 at 16 17 36 U.T. Small Originated 144 km from Halifax, N.S. Probably a blast. The distance corresponds to that of one quarry and several salt mines.

MARCH 16 at 16 07 43 U.T. Very small. Originated 39 km from Halifax, N.S. Probably a blast.

SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

Seismological Bulletin
April - June
1960

Seismological Service
of Canada

OTTAWA, CANADA
Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

SEISMOLOGICAL BULLETIN - 1960

APRIL - JUNE - 1960

NOTES

1. Halifax, Nova Scotia — The Sprengnethers N.S. and E.W. seismographs were taken out of operation in June 1960 and a three component system was installed. This system consisted of three long period Columbia seismographs with calibration curves shown on page 60.

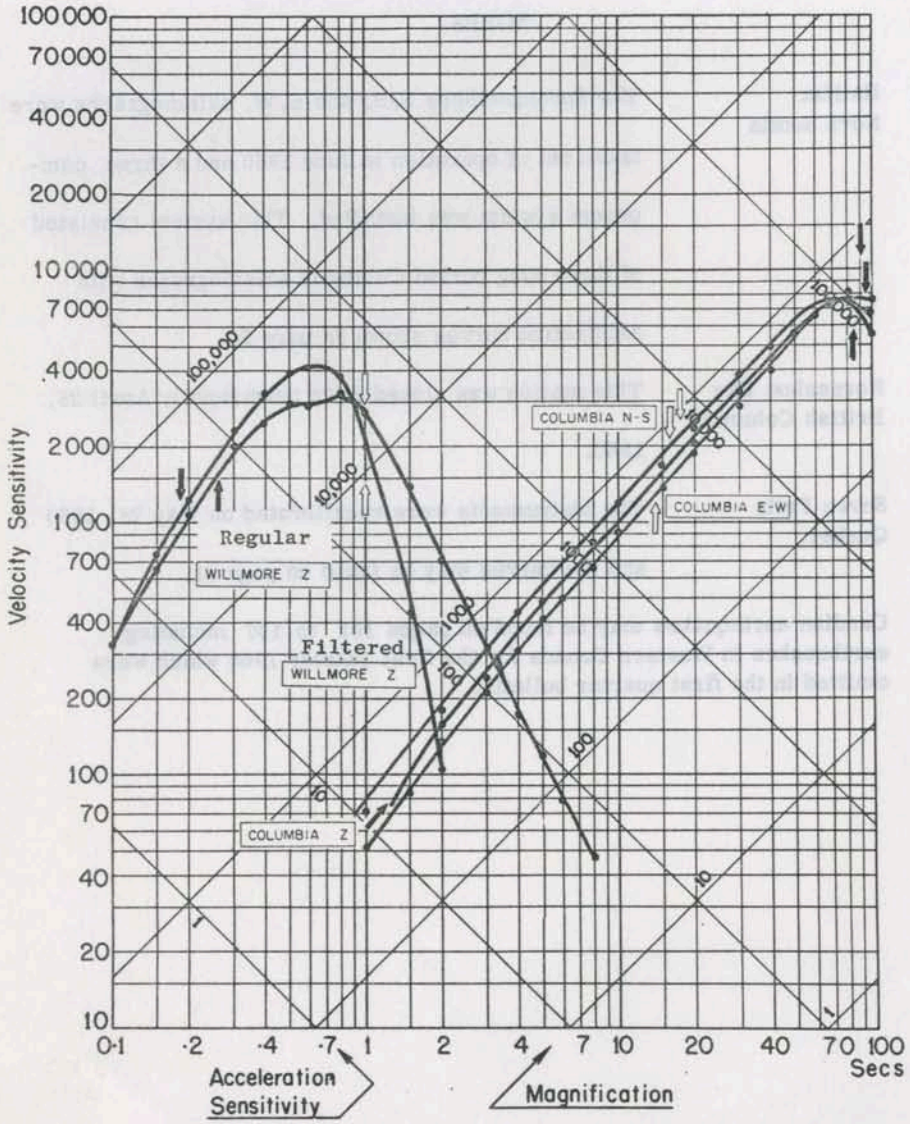
2. Horseshoe Bay, British Columbia — This station was closed down permanently April 28, 1960.

3. Seven Falls, Quebec — The instruments were recalibrated on May 28, 1960 and the curves may be found on page 61.

4. Candian earthquakes may be found on pages 101 to 107 including earthquakes in Western Canada for the first quarter 1960 which were omitted in the first quarter bulletin.

CALIBRATION CURVES

STATION: HALIFAX



ϕ = 44°38'N λ = 68°36'W Altitude 56 M

Foundation : Carbonaceous slate

T_s ⇧ T_g ⇧

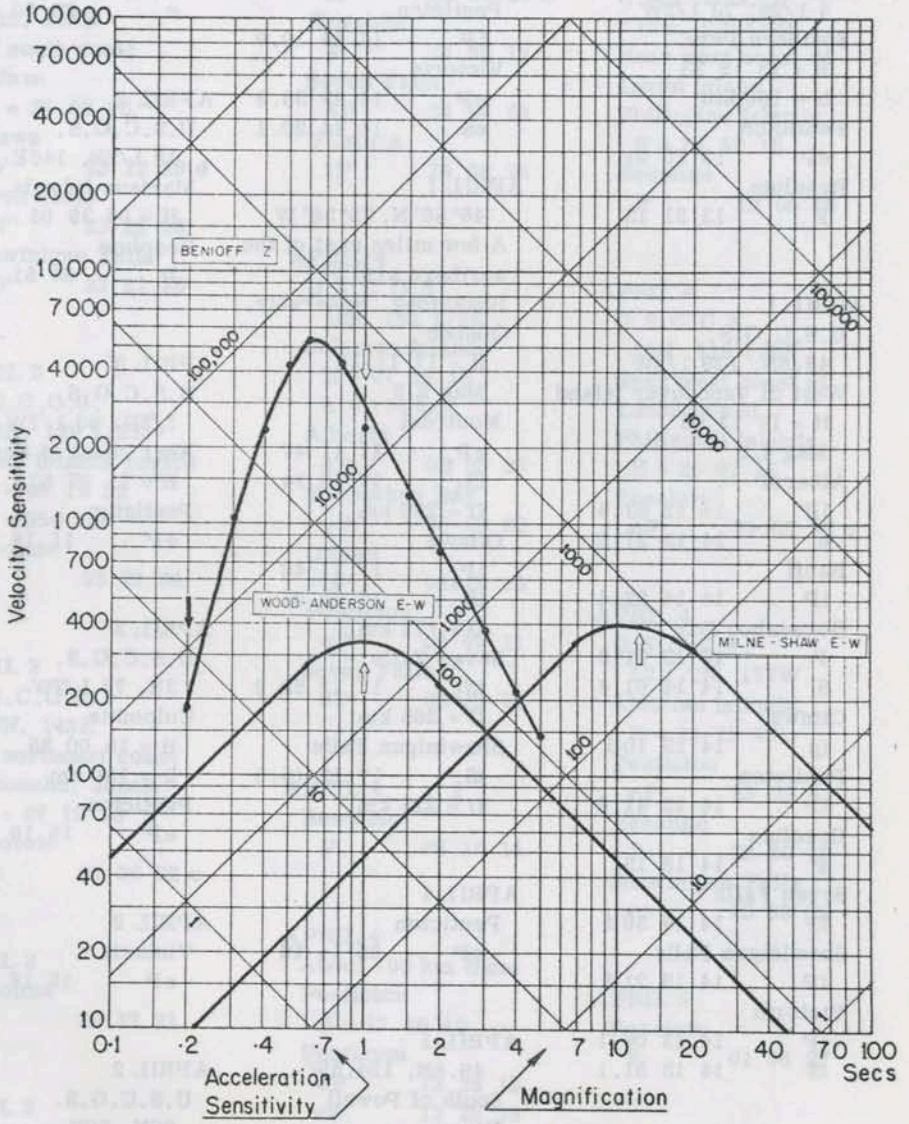
Date of Calibration: June 1960

Columbia LP-EW June 10/60
Columbia LP-NS June 10/60
Columbia LP Z June 17/60

Regular Willmore SPZ - June 3/60
Filtered Willmore SPZ - June 6/60

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

DOMINION OBSERVATORIES

APRIL 1
U.S.C.G.S.
4 1/2S, 73 1/2W
Southern Peru
H = 13 18 23
h = 100 km
Penticton
eP 13 30 01
Resolute
P 13 31 13

APRIL 1
U.S.C.G.S.
48.8N, 129 1/2W
West of Vancouver Island
H = 14 12 05
Mag 4.2
Alberni
iP 14 12 53.5
e 14 13 27.8
Banff
iP 14 14 22.4
Horseshoe Bay
P 14 13 11.3
S 14 14 01.4
Ottawa
ip 14 19 10d
Penticton
iP 14 13 41.6
Resolute
P 14 18 15
Seven Falls
iP 14 19 30d
Shawinigan Falls
iP 14 19 21d
Victoria
iP 14 13 06.1
iS 14 13 51.1

APRIL 1
48.9N, 128.8W
Off west coast of
Vancouver Island
H = 14 42 44
Mag 3.1
Alberni
iP 14 43 23.1
eS 14 43 55.6
Horseshoe Bay
iP 14 43 36.7
Penticton
iP 14 44 10.0
Victoria
eP 14 43 35.8
eS 14 44 20.1

APRIL 1
46°56'N, 75°38'W
A few miles east of the
northern arm of
Baskatong, Reservoir,
Quebec
H = 17 11 12
Mag 2.5
Montreal
eP_1 17 11 47
iS_1 17 12 14
D = 220 km
Ottawa
iP_1 17 11 40
iS_1 17 12 01
D = 172 km
Seven Falls
iS_1 17 12 59.2
D = 365 km
Shawinigan Falls
iS_1 17 12 15.5
D = 225 km

APRIL 1
Penticton
eP 23 14 16

APRIL 1
49.8N, 124.5W
South of Powell
River
H = 23 20 06
Mag 1.8
Alberni
iP 23 20 16.5
iS 23 20 24.5
Horseshoe Bay
eP 23 20 29.8
iS 23 20 41.8
Victoria
eP 23 20 32.5
e 23 20 52.1

APRIL 2
U.S.C.G.S.
18 1/2N, 146E
Mariana Islands
H = 06 39 08
Resolute
P 06 51 15

APRIL 2
U.S.C.G.S.
1/2N, 80 1/2W
Near coast of Ecuador
H = 11 07 57
Penticton
eP 11 18 00

APRIL 2
U.S.C.G.S.
3N, 76 1/2W
Colombia
H = 15 00 36
h = 150 km
Penticton
eP 15 10 21

APRIL 2
Victoria
eP 15 18 09

APRIL 2
U.S.C.G.S.
36N, 50E
Western Iran
H = 22 36 08
Shawinigan Falls
eP 22 48 29

SEISMOLOGICAL BULLETIN - 1960

APRIL 2
U.S.C.G.S.
11S, 113E
Off south coast
of Java
H = 23 02 50
Ottawa
ip' 23 22 29 d
Seven Falls
eP' 23 22 26
Shawinigan Falls
ep' 23 22 26

APRIL 3
U.S.C.G.S.
28N, 139 1/2E
Bonin Islands region
H = 05 10 32
h = 550 km
Resolute
P 05 21 04

APRIL 3
U.S.C.G.S.
40N, 143E
Off northeast coast
of Honshu, Japan
H = 07 19 58
Resolute
ep 07 30 02 c

APRIL 3
Resolute
P 22 32 21

APRIL 3
Resolute
ep 23 55 13 d

APRIL 3
U.S.C.G.S.
15 1/2N, 60 1/2W
Lesser Antilles
H = 23 57 50
Ottawa
iP 24 04 27 c
Resolute
P 24 08 15
Seven Falls
eP 24 04 29
Victoria
iP 24 08 25

APRIL 4
U.S.C.G.S.
10S, 161 1/2E
Solomon Islands
H = 07 56 15
h = 100 km
Alberni
eP 08 08 58
Horseshoe Bay
eP 08 09 02
Ottawa
iP' 08 15 00
Penticton
eP 08 09 11
Seven Falls
eP' 08 15 03

APRIL 4
Resolute
P 09 18 14

APRIL 4
About 700 km from
Penticton
H = 13 26 40
Penticton
eP 13 28 13
eS 13 29 39

APRIL 4
Horseshoe Bay
iP 17 10 02

APRIL 4
Resolute
P 17 19 32

APRIL 4
U.S.C.G.S.
15N, 119 1/2E
Near west coast of
Luzon Island,
Philippine Islands
H = 18 52 15
Resolute
P 19 05 06

APRIL 4
U.S.C.G.S.
15N, 119 1/2E
Near west coast of
Luzon Island,
Philippine Islands,
H = 20 52 15
Resolute
eP 21 05 07 c

APRIL 4
U.S.C.G.S.
50 1/2N, 177W
Aleutian Islands,
H = 23 22 47
Penticton
eP 23 29 53
Resolute
P 23 30 25
Shawinigan Falls
ep 23 33 33

APRIL 5
Resolute
P 01 56 27

APRIL 5
U.S.C.G.S.
61S, 26W
Sandwich Islands
H = 07 17 45
Resolute
ep' 07 37 13 d
eS 07 50 38

DOMINION OBSERVATORIES

APRIL 5
About 90 km from
Penticton
H = 10 46 25
Penticton
iP 10 46 39.5 c
iS 10 46 50.3
D = 90 km

APRIL 5
U.S.C.G.S.
60 1/2S, 25W
Sandwich Islands
H = 12 36 15
Penticton
ePKS 12 59 04
Resolute
ep' 12 55 44 D

APRIL 5
U.S.C.G.S.
65N, 2W
North Atlantic Ocean
H = 17 25 19
Penticton
eP 17 36 58
Resolute
P 17 31 29

APRIL 5
250 km from Penticton
H = 23 29 29
Penticton
eP 23 30 10.7 c
eS 23 30 46.3
D = 290 km

APRIL 6
U.S.C.G.S.
20S, 68 1/2W
Chile-Bolivia border
H = 02 05 06
Banff
eP 02 17 - c
Time uncertain

Horseshoe Bay
iP 02 17 43
Ottawa
iP 02 15 56 d
Penticton
iP 02 17 33 c
Resolute
P 02 18 38
Seven Falls
eP 02 16 05
Shawinigan Falls
ip 02 16 01 d
Victoria
iP 02 17 39

APRIL 6
H = 09 14 16
Alberni
eP_1 09 14 39.2
P_n 09 14 40.4
S 09 14 57.7
Horseshoe Bay
eP_1 09 14 57.8
iP_n 09 14 59.5
S 09 15 29.1
Victoria
eP 09 15 01.5

APRIL 6
Resolute
P 10 33 56

APRIL 6
Resolute
P 17 15 13

APRIL 6
Resolute
ep 21 23 19 d

APRIL 7
Resolute
P 06 16 10

APRIL 7
U.S.C.G.S.
40N, 143E
Off east coast of
Honshu, Japan
H = 08 36 54
Resolute
P 08 46 55

APRIL 7
U.S.C.G.S.
24S, 179 1/2E
Fiji Islands Region
H = 13 47 28
h = 500 km
Mag 6
Horseshoe Bay
eP 13 59 32
Penticton
eP 13 59 41
Resolute
P' 14 05 07
i 14 12 56
Victoria
eP 13 59 29

APRIL 7
About 200 km from
Penticton
H = 16 06 31
Alberni
eP 16 07 33.4
eS(?) 16 07 39.5
Penticton
eP 16 06 59.5
eS 16 07 21.3

APRIL 7
U.S.C.G.S.
12N, 143 1/2E
Mariana Islands
H = 20 03 37
Horseshoe Bay
iP 20 16 04
Penticton
eP 20 16 17
Resolute
ep 20 16 21 d

SEISMOLIGICAL BULLETIN - 1960

APRIL 7
178 km from Penticton
H = 20 56 02
Penticton
eP 20 56 26.4
eS 20 56 47.8
D = 178 km

APRIL 7
22 km from Victoria
H = 21 45 09.4
Victoria
iP 21 45 13.2
S 21 45 16.1
D = 22 km

APRIL 8
Alberni
iP 00 08 06
Horseshoe Bay
iP 00 08 12
Victoria
iP 00 08 10

APRIL 8
Resolute
i 00 22 48

APRIL 8
U.S.C.G.S.
21S, 177W
Tonga Islands
H = 23 55 54
h = 200 km
Mag 6
Banff
eP 24 08 - c
Time uncertain
Penticton
iP 24 08 21

APRIL 9
U.S.C.G.S.
40N, 143E
Near east coast
of Honshu, Japan
H = 02 43 51
Resolute
ep 02 53 55 c

APRIL 9
Resolute
P 09 08 55

APRIL 9
Resolute
P 11 24 15

APRIL 9
48.6N, 122.7W
Gulf Islands
H = 14 33 05.5
Horseshoe Bay
iP 14 33 21.3
eS 14 33 33.2
Victoria
iP 14 33 14.5
iS 14 33 21.4

APRIL 9
Resolute
P 19 00 12

APRIL 9
Resolute
P 19 48 21

APRIL 9
48.4N, 122.6W
Whitbey Islands
H = 20 59 36.4
Alberni
S(?) 21 00 26

Horseshoe Bay
eP 20 59 55.2
eS 21 00 09.0
Victoria
eP 20 59 46.1

APRIL 10
U.S.C.G.S.
36N, 142E
Near east coast of
Honshu, Japan
H = 00 04 43
Resolute
P 00 15 37

APRIL 10
Canadian Arctic
H = 01 59 10
h = 5 km ?
Mag 1.9
Resolute
iP_n 01 59 45
iP_1 01 59 47.2
iS_n 02 00 11.7
iS_1 02 00 15
D = 230 km

APRIL 10
U.S.C.G.S.
12 1/2N, 143 1/2E
Mariana Islands
H = 04 49 41
h = 100 km
Resolute
P 05 02 15

APRIL 10
Resolute
P 11 00 47

APRIL 10
U.S.C.G.S.
Bonin Islands
H = 13 07 30
Resolute
P 13 18 55

APRIL 10
U.S.C.G.S.
53N, 167 1/2W
Fox Islands
H = 20 26 12
Resolute
P 20 33 08

APRIL 10
U.S.C.G.S.
Western Turkey
H = 22 05 29
Resolute
P 22 15 45

APRIL 11
H = 05 55 16
Penticton
eP 05 56 34.2
eS 05 57 46.7
D = 500 km

APRIL 11
47.6N, 122.2 W
Southwest of
Seattle Washington
H = 06 47 34.5
Mag 3.3
Alberni
iP 06 48 13.9
e 06 48 44.2
eS 06 48 45.8
Banff
(S-P) = 95.2 seconds
Horseshoe Bay
iP 06 48 07.5
iS 06 48 32.5
Penticton
eP 06 48 15.8
e 06 48 19.2
eS 06 48 51.8
Victoria
iP 06 47 55.2 d

APRIL 12
U.S.C.G.S.
58N, 155W
Alaska Peninsula
H = 01 16 40
Resolute
P 01 22 26

APRIL 12
U.S.C.G.S.
Western Turkey
H = 04 22 35
Resolute
P 04 32 58

APRIL 12
Resolute
P 07 21 59

APRIL 12
Resolute
P 09 55 16

APRIL 12
Seattle aftershock
H = 13 37 13.2
Penticton
eP 13 38 06.1
e 13 38 13.0
eS 13 38 52.5
D = 380 km

APRIL 12
H = 15 18 26.5
Penticton
S-P = 19.3 sec.
D = 158 km

APRIL 12
H = 15 50 13.2
Penticton
iP 15 50 37.5
iS 15 50 54.3
D = 138 km

APRIL 12
Penticton
eP 17 18 51.7
eS 17 19 11.0

APRIL 12
U.S.C.G.S.
46 1/2N, 96E
Outer Mongolia
H = 20 41 10
Resolute
P 20 51 10

APRIL 13
U.S.C.G.S.
52N, 175W
Andreanof Islands
H = 04 50 28
Resolute
P 04 57 52
i 05 00 04

APRIL 13
Resolute
P 05 54 10

APRIL 13
U.S.C.G.S.
44 1/2N, 127E
Manchuria
H = 07 57 46
Resolute
P 08 07 37

APRIL 13
Resolute
P 11 38 33

APRIL 13
U.S.C.G.S.
15 1/2N, 92 1/2W
Guatemala, Mexico
border
H = 12 37 38
Mag 6
Alberni
iP 12 45 42
Halifax
ip 12 44 59 d
Horseshoe Bay
iP 12 45 35
Ottawa
ip 12 44 15 c
e 12 49 39
Resolute
ep 12 47 41 c
eS 12 55 50
Seven Falls
iP 12 44 45 d
Shawinigan Falls
iP 12 44 32 c
Victoria
iP 12 45 32

APRIL 13
U.S.C.G.S.
52N, 175W
Fox Islands
H = 13 14 28
Resolute
P 13 21 31

APRIL 14
48.5N, 130.4W
Off west coast of
Vancouver Island
H = 00 37 51.8
Horseshoe Bay
eP 00 39 16.6
eS 00 40 27.0
Victoria
iP 00 39 01.3 d
eS 00 40 04.2

APRIL 14
Penticton
eP 03 37 31

APRIL 14
Resolute
P 21 42 18

APRIL 15
U.S.C.G.S.
13 1/2S, 166E
New Hebrides
H = 04 13 25
Penticton
eP 04 26 28

APRIL 15
H = 08 10 51.8
Penticton
eP 08 11 18.1
eS 08 11 38.2
D = 164 km

APRIL 15
U.S.C.G.S.
42 1/2N, 143 1/2E
Near south coast of
Hokkaido, Japan
H = 10 06 20
Resolute
eP 10 16 08 c

APRIL 15
Resolute
P 10 36 27

APRIL 15
U.S.C.G.S.
42N, 144E
Near south coast of
Hokkaido, Japan
H = 11 03 45
Resolute
ep 11 13 35 c

APRIL 15
U.S.C.G.S.
40 1/2N, 142E
Near north coast of
Honshu, Japan
H = 11 39 01
h = 150 km
Alberni
iP 11 49 14
Ottawa
ip 11 51 39 c
Penticton
iP 11 49 34
Resolute
P 11 48 49
S 11 56 44
Shawinigan Falls
iP 11 51 38 c
Victoria
iP 11 49 23

APRIL 15
Resolute
P 13 21 00

APRIL 15
Resolute
P 13 49 26

APRIL 15
Resolute
P 17 04 31

APRIL 15
U.S.C.G.S.
13 1/2S, 166E
New Hebrides
H = 22 05 06
Mag 6 1/2
Alberni
eP 22 17 59
Halifax
iP' 22 24 19
Horseshoe Bay
eP 22 18 03

DOMINION OBSERVATORIES

Ottawa
iP' 22 24 01
Penticton
eP 22 18 14
Resolute
P 22 19 22
S 22 31 16
Seven Falls
eP' 22 24 06
Shawinigan Falls
eP' 22 24 00
Victoria
eP 22 18 01

APRIL 16
H = 00 27 20.8
Penticton
iP 00 27 49.5
iS 00 28 11.6
D = 180 km

APRIL 16
Victoria
eP 04 00 24
i 01 45

APRIL 16
Resolute
P 11 38 06

APRIL 16
Resolute
P 12 10 18

APRIL 16
48.4N, 122.5W
Northeast of Whidbey Island
H = 13 09 36.2
Alberni
eP 13 10 08.7
eS 13 10 29.2
Horseshoe Bay
iP 13 09 55.6
iS 13 10 10.3
Victoria
iP 13 09 47.2
iS 13 09 55.8

APRIL 16
Resolute
P 19 43 05

APRIL 16
U.S.C.G.S.
45N, 150E
Kurile Islands
H = 20 38 25
Resolute
P 20 47 44

APRIL 17
U.S.C.G.S.
54N, 164W
Unimak Island region
H = 01 12 44
Resolute
P 01 19 24

APRIL 17
Resolute
P 07 56 43

APRIL 17
Canadian Arctic
H = 12 41 35
h = 29 km
Mag 1.8
Resolute
eP_n 12 42 08.9
eP_1 12 42 12.5
iS_n 12 42 30.4
iS_1 12 42 37.2
D = 208 km

APRIL 17
Resolute
P 18 39 29

APRIL 18
U.S.C.G.S.
28N, 139 1/2E
Bonin Islands region
H = 08 07 07
h = 450 km
Alberni
eP 08 17 52
Penticton
eP 08 17 11
Resolute
ip 08 17 45 d
Victoria
iP 08 18 00

APRIL 18
U.S.C.G.S.
13 1/2S, 166E
New Hebrides
H = 09 01 20
Penticton
eP 09 14 26

APRIL 18
Resolute
P 11 25 33

APRIL 18
Resolute
ep 14 55 11 c

APRIL 19
H = 00 08 16.4
Penticton
iP 00 08 44.5
iS 00 09 06.0
D = 176 km

APRIL 19
U.S.C.G.S.
46N, 151E
Kurile Islands
H = 01 13 27
Resolute
ep 01 22 40 c

SEISMOLOGICAL BULLETIN - 1960

APRIL 19
U.S.C.G.S.
51 1/2N, 174W
Andreanof Islands
H = 19 26 00
Resolute
P 19 33 25

APRIL 19
U.S.C.G.S.
51 1/2N, 172 1/2W
Fox Islands
H = 20 32 51
Resolute
P 20 40 17

APRIL 20
Resolute
P 02 52 30

APRIL 20
Resolute
eP 06 25 31 d

APRIL 20
Resolute
P 07 14 50

APRIL 20
Resolute
P 07 31 54

APRIL 20
H = 17 02 05.6
Penticton
iP 17 02 35.7
iS 17 02 59.2
D = 192 km

APRIL 20
U.S.C.G.S.
37N, 71E
Hindu Kush
H = 19 23 04
h = 200 km
Resolute
ep 19 33 52 c

APRIL 20
48.5N, 123.8W
H = 22 23 53
Alberni
eP 22 24 11.0
eS 22 24 24.7
Victoria
iP 22 23 57.9
iS 22 24 01.6

APRIL 21
U.S.C.G.S.
2 1/2S, 110W
Pacific Ocean
H = 02 16 29
Mag 5 3/4
Alberni
eP 02 25 56
Halifax
ip 02 27 00 (d)
Horseshoe Bay
eP 02 25 56
Ottawa
ip 02 26 16(d)
iS 02 34 12
Penticton
eP 02 25 47
Resolute
P 02 28 29
eS 02 38 17
Seven Falls
eP 02 26 41
Shawinigan Falls
eP 02 26 29
Victoria
eP 02 25 47.

APRIL 21
H = 05 22 47.3
Penticton
iP 05 23 18.2
i 05 23 20.2
iS 05 23 42.5
D = 199 km

APRIL 21
Resolute
P 11 48 38

APRIL 21
Resolute
P 12 17 04

APRIL 21
Resolute
P 13 09 16

APRIL 21
U.S.C.G.S.
20 1/2S, 174W
Tonga Islands
H = 16 21 57
Penticton
eP 16 34 36

APRIL 21
H = 17 48 44
Penticton
eP 17 51 20.3
eS 17 53 20.
D = 1300 km

APRIL 21
Resolute
P 21 09 54

DOMINION OBSERVATORIES

APRIL 22
Resolute
P 05 52 35

APRIL 22
Resolute
P 08 55 26

APRIL 22
U.S.C.G.S.
12 1/2N, 123 1/2E
Philippine Islands
H = 18 47 17
Resolute
P 19 00 16

APRIL 22
U.S.C.G.S.
17 1/2S, 174 1/2W
Tonga Islands
H = 20 26 28
h = 200 km
Alberni
eP 20 38 19
Horseshoe Bay
eP 20 38 23
Penticton
eP 20 38 32
Resolute
P 20 40 12
i 20 50 35
Victoria
eP 20 38 20

APRIL 22
Resolute
P 21 09 30

APRIL 22
H = 22 58 38.6
Penticton
eP 22 59 26.6
eS 23 00 08.0
D = 339 km

APRIL 23
H = 00 53 46.2
Penticton
eP 00 54 12.3
eS 00 54 32.2
D = 164 km

APRIL 23
U.S.C.G.S.
31 1/2N, 50 1/2E
Iran
H = 06 26 16
Resolute
P 06 37 37

APRIL 23
Resolute
P 07 35 04

APRIL 23
47°32'N, 70°18'W
Nine miles southwest
of Malbaie, Que.
H = 11 47 52
h = 17 km
Mag 4.0
Halifax
iP_n 11 49 11
iS_n 11 50 11.5
L_g 11 50 44
D = 610 km
Montreal
i 11 48 43.2
i 11 48 47.2
i 11 49 16
i 11 49 22.8
D = 341 km
Seven Falls
P_1 11 48 01.8 d
i 11 48 03.3
i 11 48 06.0
S_1 11 48 09.3
D = 60 km
Shawinigan Falls
P_1 11 48 26 d
i 11 48 29
i 11 48 31
i 11 48 46
S_1 11 48 52.3
D = 217 km

APRIL 23
U.S.C.G.S.
45N, 98E
Outer Mongolia
H = 13 08 35
Resolute
P 13 18 46

APRIL 23
Resolute
P 13 35 30

APRIL 23
Resolute
P 17 35 45

APRIL 23
Resolute
P 20 09 39

APRIL 23
U.S.C.G.S.
53N, 172 1/2E
Near Islands
H = 23 58 23
Resolute
P 24 06 03

APRIL 24
U.S.C.G.S.
6S, 113 1/2E
Java Sea
H = 03 22 23
h = 600 km
Alberni
iP' 03 40 04
Halifax
iP' 03 40 50 d
Ottawa
iP' 03 40 42
Penticton
iP' 03 40 10
Resolute
P 03 35 52 d
P' 03 39 51
i 03 40 35
i 03 43 34

SEISMOLOGICAL BULLETIN - 1960

Seven Falls
eP' 03 40 40
Shawinigan Falls
iP' 03 40 37
Victoria
iP' 03 40 06

APRIL 24
U.S.C.G.S.
28N, 54 1/2E
Southern Iran
H = 12 14 26
Halifax
ip 12 27 20
Ottawa
iP 12 27 50 d
Resolute
P 12 26 17 c
S 12 36 00
Seven Falls
eP 12 27 33
Shawinigan Falls
iP 12 27 37 d

APRIL 24
U.S.C.G.S.
32 1/2S, 72W
Near coast of
Central Chile
H = 14 50 45
Penticton
iP 15 03 55

APRIL 25
U.S.C.G.S.
42N, 142E
Near south coast
of Hokkaido, Japan
H = 00 14 17
Resolute
eP 00 24 10 c

APRIL 25
U.S.C.G.S.
46N, 144E
Off north coast
of Hokkaido, Japan
H = 04 01 10
h = 400 km
Resolute
iP 04 09 54 c

APRIL 25
U.S.C.G.S.
50N, 158E
Off south coast
of Kamchatka
H = 12 46 04
Resolute
P 12 54 38

APRIL 25
U.S.C.G.S.
56N, 155W
Kodiak Island region
H = 14 53 53
Alberni
eP 14 58 22
Resolute
P 15 00 00
Victoria
eP 14 58 23

APRIL 25
U.S.C.G.S.
38 1/2N, 25E
Aegean Sea
H = 16 28 32
Resolute
P 16 38 47

APRIL 25
U.S.C.G.S.
13 1/2N, 88 1/2W
Near coast of
El Salvador
H = 18 53 17
h = 100 km

Halifax
ip 19 00 28.5
Resolute
iP 19 03 21 c
Seven Falls
eP 19 00 20
Shawinigan Falls
eP 19 00 12
Victoria
eP 19 01 33

APRIL 26
H = 03 49 30.6
Penticton
iP 03 49 33.8
iS 03 49 36.4
D = 20 km

APRIL 26
U.S.C.G.S.
11N, 84 1/2W
Nicaragua-Costa Rica
border
H = 04 34 06
Resolute
P 04 44 43

APRIL 26
Resolute
P 06 59 45

APRIL 26
U.S.C.G.S.
44 1/2N, 111W
Hebgen Lake Montana
H = 16 23 01
Alberni
eP 16 25 34
Victoria
eP 16 25 19

APRIL 26
Resolute
P 20 06 25

DOMINION OBSERVATORIES

APRIL 26
U.S.C.G.S.
24 1/2N, 122E
Off coast of Formosa
H = 20 19 10
Resolute
P 20 31 12

APRIL 26
U.S.C.G.S.
39N, 101E
Kansu Province
China
H = 21 27 12
Resolute
P 21 38 04

APRIL 27
H = 00 59 46.9
Penticton
iP 00 59 50.5
iS 00 59 53.2
D = 21 km

APRIL 27
44 1/2N, 111W
Hebgen Lake Montana
H = 04 32 30
Penticton
eP 04 34 29

APRIL 27
171 km from Horseshoe Bay
Horseshoe Bay
S-P = 20.9 sec.
Penticton
eP 04 44 06
Victoria
eP 04 43 50.0
04 44 02.5
04 44 11.0
04 44 16.2

APRIL 27
U.S.C.G.S.
40N, 142E
Near north coast
of Honshu, Japan
H = 21 05 51
Resolute
P 21 15 54

APRIL 27
U.S.C.G.S.
18N, 120E
Off coast of Luzon
Philippine Islands
H = 22 43 49
Resolute
eP 22 56 28 c

APRIL 28
U.S.C.G.S.
53 1/2N, 168W
Fox Islands
H = 00 49 16
Halifax
ip 00 59 43
Resolute
eP 00 56 10 d
Seven Falls
eP 00 59 07
Shawinigan Falls
eP 00 59 00

APRIL 28
Resolute
P 01 02 21

APRIL 28
U.S.C.G.S.
59 1/2S, 26W
Sandwich Islands
H = 02 10 14
Resolute
P' 02 29 36
i 02 33 17

APRIL 28
Nova Scotia
H = 09 28 33
Probably a blast
Halifax
iP_1 09 28 56.5
iS_1 09 29 14.5
D = 148 km

APRIL 28
U.S.C.G.S.
35 1/2N, 77E
Dodecanese Islands
H = 16 33 25
Halifax
ip 16 44 14
Resolute
P 16 43 58

APRIL 28
Resolute
P 23 59 43

APRIL 29
48.5N, 123.8W
H = 02 06 19.2
Alberni
iP 02 06 38.0
eS 02 06 52.4
Penticton
eP 02 07 07.0
Victoria
iP 02 06 24.2
iS 02 06 27.8

APRIL 29
U.S.C.G.S.
56 1/2S, 25W
Sandwich Islands
H = 02 15 35
Resolute
P' 02 34 51
i 02 38 22
i 02 56 06

SEISMOLOGICAL BULLETIN - 1960

APRIL 29
U.S.C.G.S.
55 1/2S, 25W
Sandwich Islands
H = 03 43 04
Resolute
P' 04 02 17

APRIL 29
Resolute
P 04 50 04

APRIL 29
Resolute
P 09 13 23

APRIL 29
Resolute
P 09 42 37

APRIL 29
Resolute
eP 10 37 37

APRIL 29
U.S.C.G.S.
30S, 178 1/2W
Kermadec Islands
H = 13 38 31
Halifax
ip' 13 57 35
Resolute
eP' 13 57 13 c

APRIL 29
U.S.C.G.S.
Kermadec Islands
region
H = 14 45 42
Resolute
P' 15 04 16

APRIL 29
U.S.C.G.S.
0, 122E
Celebes
H = 19 32 12
Halifax
ip' 19 51 34
Ottawa
eP' 19 51 29
Resolute
eP 19 46 10 c
Seven Falls
eP' 19 51 29
Shawinigan Falls
eP' 19 51 27

APRIL 29
U.S.C.G.S.
0, 121 1/2E
Celebes
H = 20 44 27
Resolute
P 20 58 25
Shawinigan Falls
eP' 21 03 42

APRIL 30
U.S.C.G.S.
0, 122E
Celebes
H = 04 01 32
Halifax
iP' 04 20 57
Ottawa
eP' 04 20 50
Resolute
P 04 15 30
Seven Falls
eP' 04 20 50
Shawinigan Falls
eP' 04 20 50

APRIL 30
166 km from Alberni
H = 11 38 04.2
Alberni
eP 11 38 24.1
eS 11 38 44.4
e 11 38 45.0
Victoria
eP 11 38 05.4
± 0.5 sec.

APRIL 30
Victoria
eP 15 25 09

APRIL 30
Resolute
P 21 01 14

APRIL 30
U.S.C.G.S.
6S, 124 1/2E
Banda Sea
H = 22 10 07
Halifax
iP' 22 28 28
Resolute
P 22 23 26
i 22 27 29
i 22 42 30
Shawinigan Falls
eP' 22 28 23
i 22 31 00

MAY 1
U.S.C.G.S.
52 1/2N, 166W
Fox Islands
H = 02 55 10
Resolute
P 03 02 09

MAY 2
Alberni
eP 00 30 51
Victoria
eP 00 31 15

DOMINION OBSERVATORIES

MAY 2
U.S.C.G.S.
44N, 84 1/2W
Sinkiang Province
China
H = 01 00 00
Resolute
P 01 10 22

MAY 2
Halifax
iP 08 53 23
Resolute
P 08 55 40

MAY 2
Resolute
P 10 12 10

MAY 2
Resolute
P 10 52 53

MAY 2
U.S.C.G.S.
0,121 1/2E
Celebes
H = 12 10 11
Halifax
iP' 12 29 35
Resolute
P 12 24 07
i 12 34 38

MAY 2
Resolute
P 14 53 46

MAY 2
U.S.C.G.S.
40N, 143E
Near east coast
of Honshu, Japan
H = 18 10 49
Resolute
P 18 20 52

MAY 3
U.S.C.G.S.
29 1/2N, 55E
Iran
H = 06 59 04
Resolute
eP 07 10 45 c

MAY 3
U.S.C.G.S.
29N, 99 1/2E
China
H = 07 55 07
Resolute
P 08 06 55

MAY 3
U.S.C.G.S.
24S, 179W
Tonga Islands region
H = 07 55 54
Resolute
P' 08 14 20
Victoria
eP 08 08 43

MAY 3
Resolute
P 09 13 50

MAY 3
U.S.C.G.S.
40N, 143E
Near east coast of
Honshu, Japan
H = 14 32 34
Resolute
P 14 42 37

MAY 3
Resolute
P 15 12 11 d

MAY 3
U.S.C.G.S.
32N, 140E
South of Honshu, Japan
H = 22 22 41
Alberni
iP 22 33 39
Penticton
iP 22 33 58
Resolute
P 22 33 25

MAY 4
Resolute
P 06 36 43

MAY 4
H = 08 27 25.8
Penticton
eP 08 28 03.6
eS 08 28 34.8
D = 255 km

MAY 4
Penticton
eP 18 42 51

MAY 4
H = 20 35 25.4
Penticton
eP 20 35 53.3
eS 20 36 14.7
D = 175 km

MAY 4
Victoria
iP 22 33 46

SEISMOLOGICAL BULLETIN - 1960

MAY 5
Near Hebgen Lake
Montana ?
H = 03 39 35.9
Penticton
eP? 03 41 38
eP? 03 41 48

MAY 5
U.S.C.G.S.
52 1/2N, 158 1/2E
Near east coast of
Kamchatka
H = 11 26 00
Alberni
eP 11 34 30 d
Halifax
ip 11 37 55
Penticton
eP 11 34 51
Resolute
eP 11 34 14 c
S 11 40 48
Shawinigan Falls
eP 11 37 27
Victoria
eP 11 34 39

MAY 5
Resolute
SKP 16 20 16

MAY 5
U.S.C.G.S.
42N, 144E
Near east coast
of Hokkaido, Japan
H = 17 13 30
Resolute
P 17 23 17
Victoria
eP 17 23 51

MAY 6
Resolute
P 05 13 58

MAY 6
Resolute
P 05 34 43

MAY 6
Alberni
eP 05 44 04
Victoria
eP 05 44 00

MAY 6
U.S.C.G.S.
21 1/2S, 71W
Near coast of Chile
H = 06 19 20
Halifax
iP 06 30 26
Penticton
eP 06 31 43
Resolute
P 06 33 12
Shawinigan Falls
eP 06 30 36

MAY 6
Resolute
eP 12 23 04 d

MAY 6
Resolute
P 14 11 22

MAY 6
U.S.C.G.S.
54N, 161E
Near east coast of
Kamchatka
H = 18 47 26
Halifax
iP 18 59 08
Penticton
eP 18 56 02
Resolute
eP 18 55 22 c
Shawinigan Falls
eP 18 58 38

MAY 6
Penticton
eP 19 05 02

MAY 6
Resolute
P 19 06 20

MAY 7
U.S.C.G.S.
42N, 143E
Hokkaido Japan
H = 14 11 21
Resolute
P 14 21 08

MAY 7
Alberni
iP 22 52 19
Penticton
eP 22 53 05
Victoria
eP 22 52 38

MAY 8
Resolute
P 00 12 43

MAY 8
U.S.C.G.S.
Pacific Ocean, about
900 miles southwest
of Galapagos Islands
H = 03 22 41
Resolute
P 03 35 00

MAY 8
U.S.C.G.S.
31S, 178W
Kermadec Islands
H = 05 29 32
Halifax
eP' 05 48 40

DOMINION OBSERVATORIES

Resolute
P' 05 48 18

MAY 8
Victoria
eP 11 23 52

MAY 8
U.S.C.G.S.
45 1/2N, 151E
Kurile Islands
H = 14 29 14
Penticton
eP 14 38 03
Resolute
iP 14 38 28 c
i 14 39 39

MAY 9
U.S.C.G.S.
30 1/2N, 129 1/2E
Ryukyu Islands
H = 00 11 10
Resolute
iP 00 22 32 c
Victoria
eP 00 23 05

MAY 9
U.S.C.G.S.
12N, 144E
Mariana Islands region
H = 06 53 11
Resolute
P 07 05 48

MAY 9
Resolute
P 10 23 27

MAY 9
U.S.C.G.S.
25 1/2N, 89 1/2E
East Pakistan-India border
H = 14 36 27
Resolute
P 14 48 37

MAY 9
U.S.C.G.S.
6 1/2N, 33 1/2W
Atlantic Ocean
H = 16 27 26
Resolute
eP 16 39 19 c

MAY 9
U.S.C.G.S.
Pacific Ocean about 900 miles southwest of Galapagos Islands
H = 20 13 25
Resolute
P 20 25 29
S 20 35 32
i 20 40 40

MAY 10
Resolute
P 06 29 17
i 06 29 35

MAY 10
U.S.C.G.S.
55 1/2S, 26W
Sandwich Islands
H = 10 56 02
Resolute
P' 11 15 26
Victoria
ePKP ? 11 18 34

MAY 10
H = 17 41 37.5
Victoria
iP 17 41 43.9
eS 17 41 48.8
D = 40 km

MAY 10
U.S.C.G.S.
51 1/2N, 159 1/2E
Off southeast Kamchatka
H = 17 36 03
Resolute
P 17 44 19

MAY 10
U.S.C.G.S.
15 1/2N, 92 1/2W
Near coast of Chiapas Mexico
H = 23 16 17
Resolute
eP 23 26 23 c
e 23 28 45
Victoria
eP 23 24 07
i 29 48

MAY 11
Alberni
eP 18 17 20

MAY 11
U.S.C.G.S.
3S, 131E
Ceram Sea
H = 18 36 00
Resolute
P 18 50 05
S 19 00 39

MAY 12
44.7N, 127W
Off west coast of Oregon
H = 16 08 44.2
Alberni
eP 16 09 55.5
iS 16 11 00.2
Resolute
P 16 15 13
Victoria
eP 16 09 52

MAY 12
Resolute
P 16 54 35

MAY 12
U.S.C.G.S.
7 1/2N, 81W
Panama
H = 22 32 32
Halifax
iP 22 40 12
Ottawa
eP 22 39 53 d
Penticton
eP 22 41 51
Resolute
P 22 43 28
iS 22 52 24
Seven Falls
eP 22 40 14
Shawinigan Falls
iP 22 40 08 c
Victoria
iP 22 42 03
i 43 09

MAY 12
Resolute
P 22 58 36

MAY 12
Resolute
P 23 05 39

MAY 12
U.S.C.G.S.
7 1/2N, 80W
Near south coast of Panama
H = 23 00 36
Ottawa
eP 23 07 55
Resolute
eP 23 11 32 c

MAY 13
Resolute
P 00 23 52

MAY 13
Resolute
P 00 41 31
e 00 44 24

MAY 13
H = 01 11 12 ?
Alberni
eP 01 11 44.4
e 01 12 10.2
Penticton
eP 01 11 44.9
Victoria
eP 01 12 04.4

MAY 13
Resolute
P 01 21 25

MAY 13
U.S.C.G.S.
20N, 109W
Revilla Gigedo Islands region
H = 10 00 40

Resolute
P 10 10 14
S 10 18 03

MAY 13
U.S.C.G.S.
55N, 161 1/2W
Alaska Peninsula
H = 16 07 12
Banff
eP 16 13 01
Halifax
iP 16 17 13 c
Ottawa
iP 16 16 26 c
Penticton
eP 16 12 48
Resolute
eP 16 13 40 c
S 16 18 48
Seven Falls
eP 16 16 37
S 16 24 06
Shawinigan Falls
eP 16 16 30
Victoria
eP 16 12 31
iP 12 41
ePP 13 35
S 16 48
G 18 10

MAY 13
U.S.C.G.S.
32 1/2S, 179W
Kermadec Islands region
H = 20 46 35
Resolute
P' 21 05 23
S 21 16 41

MAY 14
Resolute
P 11 36 39

Resolute
P 11 52 35

MAY 14
48.4N, 125.4W
Off west coast of
Virgin Islands
H = 12 56 22.1
Alberni
iP 12 56 37.0
iS 12 56 49.7
Penticton
e 12 56 37.7
Victoria
eP 12 56 48.2
i 12 56 53.6
S 12 57 06.9

MAY 14
U.S.C.G.S.
42 1/2N, 142E
Near south coast of
Hokkaido Japan
H = 17 43 10
Resolute
P 17 52 58

MAY 14
U.S.C.G.S.
53 1/2N, 159 1/2E
Kamchatka
H = 22 19 55
Ottawa
eP 22 31 12
Resolute
iP 22 27 58 c
S 22 34 26
Shawinigan Falls
iP 22 31 09

MAY 15
U.S.C.G.S.
24N, 121 1/2E
Near east coast of
Formosa
H = 13 30 20
Resolute
eP 13 42 24 c

MAY 15
Resolute
P 19 07 16

MAY 15
U.S.C.G.S.
54 1/2N, 164 1/2W
Alaska Peninsula
H = 21 37 08
Ottawa
eP 21 46 35
Resolute
eP 21 43 48 c
Victoria
eP 21 42 42

MAY 16
U.S.C.G.S.
36N, 136E
Honshu, Japan
H = 04 51 15
Resolute
P 05 01 54

MAY 16
Resolute
P 07 53 41

MAY 16
Resolute
P 14 54 07

MAY 17
Resolute
P 01 50 11

MAY 17
Resolute
P 04 07 26

MAY 17
U.S.C.G.S.
78N, 8E
Svalbard region
H = 09 19 32
Resolute
P 09 24 19

MAY 17
Resolute
P 11 22 54

MAY 17
Canadian Arctic
H = 19 15 04
h = 11 km ?
Mag 4.8
Resolute
eP_n 19 16 54
i 19 17 11.6
i 19 17 20.9
iS_n 19 18 13.5
i 19 18 29.0
iS_1 19 18 53
D = 850 km

MAY 18
H = 02 01 02.3
Penticton
iP 02 01 22.8
iS 02 01 38.4
D = 128 km

MAY 18
H = 04 31 07.4
Alberni
iP 04 31 09.5
eS 04 31 11.1
D = 13 km

MAY 18
U.S.C.G.S.
29N, 130E
Ryukyu Islands
H = 06 35 09

Penticton
eP 06 47 16
Resolute
iP 06 46 30 c
iS 06 55 50
Shawinigan Falls
eP 06 48 59 d
Victoria
iP 06 47 07

MAY 18
U.S.C.G.S.
27N, 52 1/2E
Persian Gulf
H = 08 40 57
Resolute
P 08 52 52

MAY 18
Resolute
P 13 06 44

MAY 19
U.S.C.G.S.
36N, 71E
Hindu Kush
H = 02 07 00
h = 200 km
Resolute
eP 02 17 50 c
S 02 26 48
Shawinigan Falls
eP 02 19 50

MAY 19
Canadian Arctic
H = 07 44 37
h = 24 km
Mag 2.8
Resolute
iP_n 07 45 06.4
iP_1 07 45 09.4
iS_n 07 45 28.0
iS_1 07 45 33
D = 198 km

MAY 19
Resolute
P 08 54 06

MAY 19
U.S.C.G.S.
17S, 66E
Mascarene Islands
region
H = 10 11 51
Halifax
P' 10 31 23
Ottawa
eP' 10 31 22
Resolute
P' 10 30 48
Shawinigan Falls
eP' 10 31 47

MAY 19
Resolute
eP 11 04 27 d

MAY 19
Resolute
P 12 40 26

MAY 19
U.S.C.G.S.
53N, 166W
Fox Islands
H = 16 46 10
Resolute
P 16 53 05

MAY 20
Resolute
P 00 09 23

MAY 20
U.S.C.G.S.
3 1/2S, 147 1/2E
Near north coast of
New Guinea
H = 00 23 22
Ottawa
eP' 00 42 28
Resolute
P 00 37 14
Shawinigan Falls
eP' 00 42 32

MAY 20
U.S.C.G.S.
Persian Gulf
H = 04 14 18
Resolute
P 04 26 13

MAY 20
Resolute
iP 08 05 24 c

MAY 20
U.S.C.G.S.
28S, 167 1/2E
Norfolk Island
H = 11 12 31
Halifax
P' 11 31 58
Ottawa
eP' 11 31 40 c
Resolute
P' 11 31 22
i 11 32 44
Seven Falls
eP' 11 31 49
PP 11 34 08
PKS 11 35 14
Shawinigan Falls
eP' 11 31 47 c

MAY 20
Resolute
P 12 28 09

MAY 20
U.S.C.G.S.
45N, 111W
Hebgen Lake
H = 17 54 02
Ottawa
eP 17 59 23 c
Shawinigan Falls
eP 18 00 04
Victoria
eP 17 58 20

MAY 21
U.S.C.G.S.
37 1/2N, 21E
Near west coast of
Greece
H = 06 41 10
Halifax
P 06 51 31
Ottawa
eP 06 52 20
Resolute
P 06 51 23
Shawinigan Falls
eP 06 51 45

MAY 21
U.S.C.G.S.
15 1/2N, 121 1/2E
Luzon Island
H = 08 17 01
Resolute
P 08 29 32

MAY 21
Resolute
P 08 29 48

MAY 21
U.S.C.G.S.
37 1/2S, 73 1/2W
Near coast of
Chile
H = 10 02 50
Alberni
eP 10 16 51
Banff
eP 10 15 48
Halifax
iP 10 15 17 c
Ottawa
iP 10 15 17 c
Resolute
P 10 17 38
10 30 00
Seven Falls
eP 10 15 24
SKS 10 25 54
SS 10 31 07
G 10 37 42
Shawinigan Falls
P 10 15 23 c
Victoria
eP 10 16 32

MAY 21
U.S.C.G.S.
37 1/2S, 72 1/2W
Chile
H = 10 53 51
Seven Falls
eP 11 06 28
Shawinigan Falls
eP 11 06 25

MAY 21
U.S.C.G.S.
37 1/2S, 73W
Chile
H = 12 21 16
Halifax
iP 12 33 40 c
Ottawa
eP 12 33 40 c
Seven Falls
eP 12 33 49
Shawinigan Falls
eP 12 33 47

MAY 21
U.S.C.G.S.
37 1/2S, 72 1/2W
Chile
H = 12 59 58
Halifax
iP 13 12 23 c
Ottawa
iP 13 12 23 c
Seven Falls
eP 13 12 32
Shawinigan Falls
iP 13 12 29

MAY 21
Resolute
P 13 34 43

MAY 21
U.S.C.G.S.
37 1/2S, 72 1/2W
Chile
H = 13 59 17
Halifax
P 14 11 43
Ottawa
eP 14 11 43
Resolute
eP 14 14 17 c
Seven Falls
P 14 11 53
Shawinigan Falls
eP 14 11 50

MAY 21
Resolute
P 14 18 09

MAY 21
U.S.C.G.S.
37 1/2S, 72 1/2W
Chile
H = 14 31 55
Halifax
P 14 44 22

Ottawa
eP 14 44 21
Shawinigan Falls
eP 14 44 29

MAY 21
U.S.C.G.S.
37 1/2S, 73W
Chile
H = 15 08 45
Ottawa
eP 15 21 09
Shawinigan Falls
eP 15 21 17

MAY 21
Resolute
P 17 39 53

MAY 21
Resolute
P 18 19 44

MAY 21
Alberni
eP 19 05 16

MAY 22
Resolute
P 01 16 53

MAY 22
Halifax
P 01 43 24

MAY 22
Victoria
eP 03 40 50

MAY 22
Resolute
P 03 44 56

MAY 22
U.S.C.G.S.
37 1/2S, 73 1/2W
Chile
H = 03 46 22
Halifax
P 03 58 45

MAY 22
U.S.C.G.S.
38S, 73 1/2W
Chile
H = 06 01 36
Halifax
P 06 14 03
Shawinigan Falls
eP 06 14 11

MAY 22
Halifax
P 07 48 27

MAY 22
U.S.C.G.S.
37 1/2S, 73W
Chile
H = 08 10 53
Halifax
P 08 23 20
Ottawa
eP 08 23 20
Shawinigan Falls
eP 08 23 29

MAY 22
U.S.C.G.S.
38S, 73 1/2W
Near coast of Chile
H = 10 30 39
Halifax
iP 10 43 04 c
Ottawa
iP 10 43 05 c
Resolute
eP 10 45 24 c
i 10 50 08
S 10 57 48
Seven Falls
eP 10 43 15
Shawinigan Falls
iP 10 43 14 c

MAY 22
U.S.C.G.S.
37 1/2S, 73W
Near coast of Chile
H = 10 32 43
Halifax
iP 10 45 08 d
Ottawa
eP 10 45 09
Resolute
eP 10 47 27 c
i 10 52 13
S 10 59 50
Seven Falls
eP 10 45 19
Shawinigan Falls
iP 10 45 17 c
Victoria
eP 10 46 15

MAY 22
U.S.C.G.S.
38S, 73W
Chile
H = 12 16 43
Halifax
iP 12 29 11.5
Ottawa
eP 12 29 11
Seven Falls
eP 12 29 22
Shawinigan Falls
iP 12 29 20 c

MAY 22
Shawinigan Falls
eP 17 25 09

MAY 22
U.S.C.G.S.
38S, 73 1/2W
Near coast of Chile
H = 18 55 57
Alberni
eP 19 09 45
Halifax
P 19 08 24
Ottawa
eP 19 08 25
Resolute
eP 19 10 46 c
i 19 14 36
i 19 15 30
S 19 23 08
Seven Falls
eP 19 08 35
Shawinigan Falls
eP 19 08 28
Victoria
eP 19 09 31

MAY 22
U.S.C.G.S.
38S, 73 1/2W
Near coast of Chile
H = 19 11 20
Halifax
P 19 23 04
Ottawa
eP 19 23 05
Seven Falls
eP 19 23 12
Shawinigan Falls
eP 19 23 09
Victoria
eP 19 24 12

MAY 22
Shawinigan Falls
eP 21 20 39

MAY 22
Shawinigan Falls
eP 21 26 33

MAY 22
Shawinigan Falls
eP 21 27 55

MAY 22
Shawinigan Falls
iP 22 00 38 d

MAY 22
Shawinigan Falls
iP 22 05 16 c

MAY 22
Shawinigan Falls
eP 22 09 24

MAY 22
Shawinigan Falls
iP 22 17 17 c

MAY 22
Halifax
P 22 20 32
Ottawa
eP 22 20 34

MAY 22
Halifax
P 22 26 31
Ottawa
eP 22 26 32
Seven Falls
eP 22 26 45

MAY 22
Halifax
P 22 27 54
Ottawa
eP 22 27 55

MAY 22
Shawinigan Falls
eP 22 41 58 c

MAY 22
Shawinigan Falls
eP 22 45 23

MAY 22
Halifax
P 23 09 21
Shawinigan Falls
eP 23 08 49

MAY 22
Halifax
iP 23 17 15

MAY 22
Shawinigan Falls
eP 23 38 15

MAY 22
U.S.C.G.S.
39 1/2S, 72W
Chile
H = 23 29 18
Halifax
P 23 41 54
Ottawa
eP 23 41 55
Seven Falls
eP 23 42 03

MAY 22
Halifax
iP 23 45 20 d
Ottawa
eP 23 45 20

MAY 22
Halifax
iP 23 51 44.5 d
Ottawa
eP 23 51 45

MAY 22
Shawinigan Falls
eP 24 03 41

MAY 22
Shawinigan Falls
eP 24 06 33

MAY 23
Shawinigan Falls
eP 00 14 15

MAY 23
Shawinigan Falls
eP 00 36 19

MAY 23
U.S.C.G.S.
38 1/2S, 75W
Chile
H = 00 25 44
Halifax
iP 00 38 14 d
Ottawa
eP 00 38 13
Seven Falls
eP 00 38 22
Victoria
eP 00 39 20

MAY 23
Shawinigan Falls
iP 00 47 30 d

MAY 23
Halifax
iP 00 54 13.5 d
Ottawa
eP 00 54 14 d
Seven Falls
eP 00 54 23

MAY 23
Shawinigan Falls
eP 00 56 28 c

MAY 23
U.S.C.G.S.
37 1/2S, 72W
Chile
H = 00 51 12
Halifax
iP 01 03 37.5 d
Ottawa
eP 01 03 38
Seven Falls
eP 01 03 48

MAY 23
Halifax
iP 01 06 31 c
Ottawa
iP 01 06 31 c

MAY 23
Shawinigan Falls
eP 01 08 21

MAY 23
Ottawa
eP 01 14 12

MAY 23
Shawinigan Falls
iP 01 17 22 d

MAY 23
Shawinigan Falls
eP 01 38 19

MAY 23
U.S.C.G.S.
39 1/2S, 74W
Near coast of Chile
H = 01 34 53
Halifax
iP 01 47 26.5 d
Ottawa
eP 01 47 27 d
Seven Falls
eP 01 47 36

MAY 23
Halifax
P 01 56 24
Ottawa
eP 01 56 25
Seven Falls
eP 01 56 34

MAY 23
Shawinigan Falls
eP 01 59 19

MAY 23
Ottawa
eP 02 08 18

MAY 23
Shawinigan Falls
iP 02 09 12 c

MAY 23
Halifax
P 02 17 18.5
Ottawa
eP 02 17 19

MAY 23
U.S.C.G.S.
41 1/2S, 73 1/2W
Chile
H = 02 46 30
Halifax
iP 02 59 15.5 c
Ottawa
eP 02 59 16 c
Seven Falls
eP 02 59 23

MAY 23
H = 02 47 22.6 ?
Victoria
eP 02 47 51.2
S 02 48 13.1
D = 180 km

MAY 23
U.S.C.G.S.
43S, 75 1/2W
Near coast of Chile
H = 02 56 17
Halifax
P 03 09 09
Ottawa
eP 03 09 09
Seven Falls
eP 03 09 17

MAY 23
Halifax
iP 03 12 31 (c)
Ottawa
eP 03 12 32

MAY 23
Ottawa
eP 03 16 06

MAY 23
Shawinigan Falls
eP 03 39 28

MAY 23
Shawinigan Falls
eP 04 26 07

MAY 23
Halifax
eP 04 39 23
Ottawa
eP 04 39 24
Seven Falls
eP 04 39 32

MAY 23
U.S.C.G.S.
38S, 73 1/2W
Chile
H = 05 13 35
Halifax
eP 05 26 01
Ottawa
eP 05 26 03
Seven Falls
eP 05 26 12

MAY 23
Shawinigan Falls
eP 05 30 18

MAY 23
Halifax
iP 06 21 38 d
Ottawa
eP 06 21 38

MAY 23
Halifax
eP 06 30 14
Ottawa
eP 06 30 15

MAY 23
U.S.C.G.S.
48S, 77W
Off coast of Chile
H = 07 09 17
Halifax
P 07 22 33.5
Ottawa
eP 07 22 33

MAY 23
Shawinigan Falls
eP 07 25 58

MAY 23
Resolute
P 07 28 14

MAY 23
U.S.C.G.S.
40 1/2S, 75 1/2W
Near coast of Chile
H = 08 13 15
Halifax
iP 08 25 53 d
Ottawa
eP 08 25 54 c

MAY 23
Shawinigan Falls
iP 09 04 51 d

MAY 23
Shawinigan Falls
eP 09 51 00

MAY 23
U.S.C.G.S.
37 1/2S, 73W
Chile
H = 09 52 20
Halifax
eP 10 04 43.5

Ottawa
eP 10 04 45
Seven Falls
eP 10 04 54

MAY 23
U.S.C.G.S.
43 1/2S, 73 1/2W
Chile
H = 10 37 59
Halifax
eP 10 50 53.5
Ottawa
eP 10 50 54

MAY 23
Shawinigan Falls
iP 13 14 30 c

MAY 23
Ottawa
eP 14 13 30

MAY 23
U.S.C.G.S.
Near coast of Chile
H = 14 01 50
Halifax
iP 14 14 26 c
Ottawa
iP 14 14 27 c

MAY 23
Halifax
iP 15 57 44 c

MAY 23
Ottawa
eP 16 08 53 c

MAY 23
Halifax
iP 18 35 03 d
Ottawa
eP 18 35 03
Shawinigan Falls
eP 18 35 11

MAY 23
Shawinigan Falls
eP 19 21 49

MAY 23
Halifax
P 20 12 29

MAY 23
Halifax
iP 22 55 04 d

MAY 23
Halifax
iP 23 25 57 d

MAY 24
Halifax
iP 00 56 39 c

MAY 24
Halifax
iP 01 50 26.5
Ottawa
iP 01 50 28 c

MAY 24
Halifax
iP 01 53 39 d

MAY 24
Halifax
iP 02 59 54 d
Shawinigan Falls
eP 02 59 57

MAY 24
Halifax
eP 03 36 24
Shawinigan Falls
eP 03 36 31

MAY 24
Halifax
iP 04 01 49 c

MAY 24
Halifax
iP 04 06 46 d

MAY 24
Halifax
eP 07 15 23

MAY 24
U.S.C.G.S.
44 1/2S, 167 1/2E
South Island
New Zealand
H = 14 46 34
Mag 6 1/2
Alberni
eP' 15 05 09
Halifax
iP' 15 06 13
Ottawa
eP' 15 05 56
Shawinigan Falls
eP' 15 06 11
Victoria
eP' 15 05 25

MAY 24
Halifax
iP 15 28 50

MAY 24
Shawinigan Falls
eP 15 37 55

MAY 24
Shawinigan Falls
iP 18 35 53 c

MAY 24
48.3N, 124.3W
Entrance to Juan de Fuca Strait
H = 23 15 17.4
Alberni
iP 23 15 33.5 d
iS 23 15 46.1
Victoria
iP 23 15 28.0
iS 23 15 35.7

MAY 25
U.S.C.G.S.
45S, 76W
Off coast of Chile
H = 08 34 33
Mag 6 1/2
Halifax
iP 08 47 40
Ottawa
iP 08 47 35
Seven Falls
eP 08 47 49
Shawinigan Falls
eP 08 47 51
Victoria
eP 08 48 29

MAY 25
Resolute
P 08 53 31
i 08 54 51
i 09 04 50

MAY 25
Shawinigan Falls
eP 10 12 15

MAY 25
U.S.C.G.S.
1N, 129 1/2E
Halmahera
H = 13 38 28
Resolute
P 13 52 15

MAY 25
U.S.C.G.S.
1N, 128 1/2E
Halmahera
H = 14 27 38
Resolute
P 14 41 34

MAY 25
U.S.C.G.S.
40S, 75 1/2W
Chile
H = 19 21 48
Shawinigan Falls
iP 19 34 29 c

MAY 25
H = 22 03 50
Alberni
eP 22 03 58.9
eS 22 04 05.7
D = 56 km

MAY 26
Resolute
P 02 22 39

MAY 26
U.S.C.G.S.
40N, 20E
Albania - Greece border
H = 05 10 05
Halifax
iP 05 20 17
Resolute
iP 05 20 03c

Seven Falls
eP 05 20 39 d
Shawinigan Falls
iP 05 20 42 d
Victoria
iP 05 22 53

MAY 26
48.7N, 123.2W
North of San Juan Island
H = 07 32 20.2
Alberni
iP 07 32 42.4
iS 07 32 58.0
Victoria
iP 07 32 24.7
iS 07 32 28.5

MAY 26
Halifax
iP 15 19 19.5 c ?

MAY 26
Halifax
iP 15 21 18 d ?
Shawinigan Falls
eP 15 21 23

MAY 26
Ottawa
P 19 46 25
Shawinigan Falls
eP 19 46 33 c

MAY 26
U.S.C.G.S.
27N, 93E
Eastern India
H = 20 05 07
Resolute
P 20 17 11

MAY 26
Ottawa
eP 23 11 30
Seven Falls
eP 23 11 39

MAY 27
Resolute
P 01 35 13

MAY 27
U.S.C.G.S.
41S, 76W
Chile
H = 03 17 21
Halifax
iP 03 30 05 d
Ottawa
eP 03 30 04
Shawinigan Falls
eP 03 30 17

MAY 27
Resolute
P 06 35 15

MAY 27
Resolute
P 17 39 11

MAY 27
Resolute
P 17 42 28

MAY 27
U.S.C.G.S.
5 1/2S, 153E
New Britain region
H = 20 10 00
Ottawa
eP' 20 28 43
Resolute
P 20 23 38

MAY 27
U.S.C.G.S.
45S, 77W
Off coast of Chile
H = 23 06 55
Halifax
iP 23 19 57
Ottawa
eP 23 19 55 d

MAY 27
Resolute
P 23 25 46

MAY 27
Halifax
iP 23 33 30
Ottawa
eP 23 33 30

MAY 28
U.S.C.G.S.
39 1/2S, 74 1/2W
Chile
H = 03 05 53
Halifax
eP 03 18 27 c
Ottawa
eP 03 18 30
Seven Falls
eP 03 18 38

MAY 28
Alberni
iP 05 27 03

MAY 28
U.S.C.G.S.
38S, 73W
Chile
H = 11 05 40
Halifax
iP 11 18 05.5 c
Ottawa
eP 11 18 07

MAY 28
Seven Falls
eP 11 18 16

MAY 28
Resolute
P 11 24 21
S 11 32 40

MAY 28
Canadian Arctic
H = 12 32 52
h = 31 km
Mag 3.6
Resolute
eP_n 12 33 59
iP_1 12 34 14.5
iS_n 12 34 47.3
iS_1 12 35 15.5
D = 516 km

MAY 28
Resolute
P 14 26 39

MAY 28
Resolute
P 18 52 08

MAY 29
U.S.C.G.S.
38S, 72 1/2W
Chile
H = 07 39 29
Mag 6 1/2
Halifax
iP 07 51 55 c
Ottawa
eP 07 51 55
Seven Falls
iP 07 52 05 c
Victoria
eP 07 53 01

DOMINION OBSERVATORIES

MAY 29
Resolute
P 07 58 06
i 07 58 54
S 08 06 35

MAY 29
Resolute
P 08 16 05

MAY 29
U.S.C.G.S.
25 1/2N, 124 1/2E
Ryukyu Islands
H = 08 20 01
Resolute
P 08 31 55

MAY 29
U.S.C.G.S.
37 1/2S, 73W
Southern Chile
H = 08 34 20
Halifax
iP 08 46 47 c ?
Ottawa
eP 08 46 47
Seven Falls
eP 08 46 58

MAY 29
Resolute
P 12 06 58

MAY 29
U.S.C.G.S.
37 1/2S, 73W
Near coast of Chile
H = 14 05 25
Halifax
iP 14 17 48
Ottawa
eP 14 17 49 d
Seven Falls
eP 14 17 59

MAY 29
Near coast of
Southern Chile
H = 21 23 54
Halifax
iP 21 36 48.5 c
Ottawa
eP 21 36 48
Seven Falls
eP 21 36 57

MAY 29
Resolute
P 21 42 42

MAY 29
Resolute
P 21 53 01

MAY 30
H = 02 05 25.2
Victoria
iP 02 05 59.7 c
iS 02 06 27.7
D = 230 km

MAY 30
U.S.C.G.S.
53 1/2N, 164W
Unimak Island region
H = 07 01 15
Resolute
P 07 07 50
i 07 10 25

MAY 30
Ottawa
eP 07 13 12
Seven Falls
eP 07 13 23

MAY 30
U.S.C.G.S.
32S, 177 1/2W
Kermadek Islands
region
H = 08 29 27
Resolute
P' 08 48 15

MAY 30
U.S.C.G.S.
Near southwest coast
of Luzon, Philippine
Islands
H = 16 05 59
Resolute
P 16 18 48

MAY 30
Seven Falls
eP 17 59 21

MAY 31
U.S.C.G.S.
39 1/2S, 75W
Chile
H = 02 40 00
Mag 6
Halifax
iP 02 52 38 d
Ottawa
iP 02 52 36 d
Seven Falls
eP 02 52 48

MAY 31
Resolute
P 02 58 41
S 03 07 20

MAY 31
H = 03 45 56.4
Penticton
eP 03 46 27
eS 03 46 51
D = 196 km

SEISMOLOGICAL BULLETIN - 1960

MAY 31
U.S.C.G.S.
18N, 62W
Leeward Islands
H = 11 02 20
Mag 6 1/2
Alberni
eP 11 12 19
Halifax
iP 11 08 03 c
Ottawa
iP 11 08 29 c
Penticton
iP 11 11 57 d
Resolute
P 11 12 22
S 11 20 26
i 11 22 12
Seven Falls
eP 11 08 33
Victoria
iP 11 12 12

MAY 31
Alberni
eP 11 15 51

MAY 31
Resolute
P 11 41 30

MAY 31
Resolute
P 11 52 19

MAY 31
U.S.C.G.S.
5 1/2S, 109 1/2E
Java Sea
H = 21 00 40
h = 600 km
Resolute
P' 21 18 08

JUNE 1
Resolute
P 05 13 47
i 05 30 04

JUNE 1
U.S.C.G.S.
38S, 73W
Chile
H = 05 02 56
Halifax time correct
to about ± 2 seconds
June 1st to June 21st
Halifax
iP 05 15 23 c
Ottawa
eP 05 15 23
Seven Falls
eP 05 15 32

JUNE 1
Resolute
P 17 51 07

JUNE 1
Ottawa
eP 22 52 46

JUNE 2
U.S.C.G.S.
46 1/2S, 74W
Southern Chile
H = 05 58 03
Halifax
iP 06 11 - d
Ottawa
eP 06 11 10 d
Seven Falls
eP 06 11 20

JUNE 2
Resolute
eP 06 16 56 D
S 06 28 18

JUNE 2
Resolute
P 07 20 45

JUNE 2
U.S.C.G.S.
19S, 175W
Tonga Islands
H = 07 19 10
h = 150 km
Penticton
eP 07 31 39
Resolute
P 07 33 47
Victoria
eP 07 31 16 d

JUNE 2
Penticton
eP 07 33 44

JUNE 2
U.S.C.G.S.
5 1/2S, 151 1/2E
New Britain
H = 07 47 11
Mag 6 1/2
Halifax
iP' 08 06 - d
Ottawa
iP' 08 06 12 d
Penticton
eP 08 00 32
Resolute
P 08 01 04
i 08 11 58
Seven Falls
iP' 08 06 17 d
Victoria
iP 08 00 22

DOMINION OBSERVATORIES

JUNE 2
Penticton
iP 08 25 28 d
Victoria
eP 08 25 17 d

JUNE 2
U.S.C.G.S.
40S, 74W
Near coast of Chile
H = 08 36 10
Halifax
iP 08 48 - d
Ottawa
eP 08 48 47 d
Seven Falls
eP 08 48 57

JUNE 2
Resolute
P 11 31 59

JUNE 2
U.S.C.G.S.
33 1/2N, 49E
Iran
H = 12 42 38
Resolute
P 12 53 50

JUNE 2
U.S.C.G.S.
18 1/2N, 61W
Leeward Islands region
H = 18 07 51
Resolute
P 18 17 57

JUNE 2
U.S.C.G.S.
20 1/2S, 178 1/2W
Fiji Islands
H = 18 59 05
h = 550 km
Penticton
eP 19 10 56
Resolute
P' 19 16 32
Victoria
eP 19 10 45

JUNE 3
U.S.C.G.S.
17 1/2S, 179 1/2W
Fiji Islands
H = 13 14 38
h = 600 km
Mag 6
Penticton
iP 13 26 18 d
Victoria
eP 13 26 05 c

JUNE 3
U.S.C.G.S.
17 1/2S, 179W
Fiji Islands
H = 13 23 37
h = 600 km
Mag 6
Penticton
iP 13 35 17 d
Resolute
P 13 36 48
i 13 41 17
i 13 46 30
Seven Falls
eP' 13 41 17
Victoria
eP 13 35 04

JUNE 3
Resolute
P 13 52 05

JUNE 3
U.S.C.G.S.
41 1/2N, 141 1/2E
Near south coast of Hokkaido, Japan
H = 16 18 04
h = 100 km
Ottawa
eP 16 30 45
Resolute
P 16 27 51
S 16 35 44
i 16 36 22
Victoria
eP 16 28 26

JUNE 3
Resolute
P 17 23 12

JUNE 3
Resolute
P 21 46 15
Victoria
eP 21 42 21

JUNE 4
Resolute
P 01 18 03

JUNE 4
U.S.C.G.S.
20N, 95 1/2W
Near coast of Mexico
H = 02 27 06
Mag 6
Ottawa
eP 02 33 59
Resolute
P 02 36 37
i 02 37 38
S 02 44 20
i 02 46 24
Seven Falls
eP 02 34 32

Victoria
iP 02 33 36

JUNE 4
U.S.C.G.S.
39S, 73 1/2W
Near coast of Chile
H = 03 02 49
Ottawa
iP 03 15 21 d
Seven Falls
eP 03 15 32

JUNE 4
Resolute
eP 06 41 24 c

JUNE 4
Resolute
P 08 18 07

JUNE 4
U.S.C.G.S.
24N, 143E
Volcano Islands region
H = 10 14 11
Resolute
iP 10 25 55 d
Victoria
eP 10 25 54

JUNE 4
U.S.C.G.S.
39 1/2N, 30 1/2W
Azores Islands region
H = 11 05 10
Resolute
P 11 13 32

JUNE 4
Resolute
P 12 03 22

JUNE 4
Resolute
P 15 20 25

JUNE 5
U.S.C.G.S.
65S, 178E
Antarctic Ocean
H = 05 29 37
Resolute
P' 05 49 30

JUNE 5
Resolute
P 09 44 51
Victoria
eP 09 42 45

JUNE 6
U.S.C.G.S.
41N, 125W
Off coast of Northern California
H = 01 17 48
Mag 5 1/2
Alberni
eP 01 19 48
Banff
iP 01 20 13.7 c
i- 01 20 48.3
eS 01 24 50.3
Halifax
eP 01 26 - d
Ottawa
eP 01 24 47
Penticton
eP 01 20 02
Resolute
P 01 24 55
S 01 30 40
Seven Falls
eP 01 25 13
Victoria
eP 01 19 41.1
i- 01 19 42.6

JUNE 6
U.S.C.G.S.
45 1/2S, 73 1/2W
Near coast of Chile
H = 05 55 44
Mag 6 3/4
Halifax
eP 06 08.8
Ottawa
eP 06 08 48
Resolute
P 06 11 08
i 06 14 39
i 06 16 06
Seven Falls
eP 06 08 59
Victoria
e 06 09 49

JUNE 6
Penticton
eP 06 13 52

JUNE 6
Resolute
P 09 53 31

JUNE 7
U.S.C.G.S.
40 1/2S, 70W
Southern Chile
H = 05 22 34
Halifax
eP 05 35 16 ? d
Ottawa
eP 05 35 16
Seven Falls
eP 05 35 26

JUNE 7
U.S.C.G.S.
17S, 98E
Indian Ocean
H = 05 25 11
Halifax
eP' 05 45 02 ? c

DOMINION OBSERVATORIES

Ottawa
eP' 05 45 08
Resolute
P' 05 44 08
Seven Falls
iP' 05 45 02 c

JUNE 7
Resolute
P 07 06 33

JUNE 7
Resolute
P 11 13 53

JUNE 7
U.S.C.G.S.
53N, 158 1/2E
Near east coast of
Kamchatka
H = 12 57 15
Ottawa
eP 13 08 32
Resolute
iP 13 05 24 c
S 13 11 41
i 13 15 03
Seven Falls
eP 13 08 39 c

JUNE 7
Resolute
P 13 49 15

JUNE 7
Canadian Arctic
H = 13 57 39
h = 10 km
Mag 2
Resolute
eP_n 13 58 14.7
iP_1 13 58 17.5
iS_n 13 58 40.3
i 13 58 44
S_1 13 58 45
D = 225 km

JUNE 8
Halifax
eP 02 57 33 ?

JUNE 8
Resolute
P 03 01 25

JUNE 8
48.8N, 123.1W
Strait of Georgia near
Saturna Island
H = 05 09 56
Alberni
eP 05 10 18.9
Victoria
iP 05 10 02.3
eS 05 10 07.1

JUNE 8
U.S.C.G.S.
35N, 35W
North Atlantic Ocean
H = 16 19 48
Banff
eP 16 29 43
Ottawa
eP 16 26 19 c
Resolute
eP 16 28 33 c
S 16 35 36
Seven Falls
eP 16 25 52 c

JUNE 8
Resolute
P 21 59 00

JUNE 9
Resolute
P 00 28 05

JUNE 9
Resolute
P 02 39 58

JUNE 9
U.S.C.G.S.
39 1/2N, 39 1/2E
Eastern Turkey
H = 02 44 08
Resolute
P 02 54 32
Seven Falls
eP 02 55 46

JUNE 9
Resolute
P 04 31 21

JUNE 9
Resolute
P 05 04 12

JUNE 9
U.S.C.G.S.
9S, 112 1/2E
Near south coast of
Java
H = 05 05 01
h = 350 km
Halifax
eP' 05 24 (07) c
Resolute
P' 05 23 05

JUNE 9
U.S.C.G.S.
Strait of Otranto
H = 08 24 00
Resolute
P 08 33 53

SEISMOLOGICAL BULLETIN - 1960

JUNE 9
Resolute
P 11 25 23
Victoria
eP 11 21 15

JUNE 9
U.S.C.G.S.
18S, 169E
New Hebrides
H = 11 23 51
Victoria
eP 11 36 59

JUNE 9
Resolute
P 12 55 33

JUNE 9
Resolute
P 15 07 29

JUNE 9
U.S.C.G.S.
38N, 26W
Azores Islands
H = 17 47 41
Ottawa
eP 17 54 53
Resolute
eP 17 56 22 d
S 18 03 20
Seven Falls
eP 17 54 23

JUNE 11
U.S.C.G.S.
21S, 64 1/2W
Southern Bolivia
H = 00 34 48
h = 300 km
Banff
iP 00 46 52 c
Halifax
iP 00 45 08 ? d
Ottawa
iP 00 45 14 d
Penticton
eP 00 46 55
Resolute
iP 00 47 53 d
i 00 58 04
S 00 58 52
Seven Falls
iP 00 45 23 d
Victoria
eP 00 47 03

JUNE 11
Resolute
P 11 58 19

JUNE 11
U.S.C.G.S.
9S, 152 1/2E
D'entrecasteaux Islands
H = 15 14 07
Banff
eP 15 27 51
Halifax
eP' 15 33 16 ?
Ottawa
eP' 15 33 11
Penticton
eP 15 27 33
Resolute
P 15 28 19
i 15 32 38
i 15 39 00
i 15 41 48
i 15 47 44
Seven Falls
eP' 15 33 15
Victoria
eP 15 27 25

JUNE 11
U.S.C.G.S.
9 1/2S, 152 1/2E
D'entrecasteaux Islands
H = 16 37 40
Ottawa
eP' 16 56 43
Seven Falls
eP' 16 56 49

JUNE 11
Resolute
i 17 02 30
i 17 05 20
i 17 11 18
Victoria
e 17 03 12

JUNE 12
U.S.C.G.S.
22 1/2S, 179E
South of Fiji Islands
H = 03 56 44
h = 600 km
Penticton
eP 04 08 42 c?
Resolute
P' 04 14 11

JUNE 12
Victoria
e 07 03 48

JUNE 12
U.S.C.G.S.
29 1/2S, 179W
Kermadec Islands
H = 06 58 12
h = 250 km
Resolute
P' 07 16 29
i 07 46 28

DOMINION OBSERVATORIES

JUNE 12
U.S.C.G.S.
36S, 98W
South Pacific Ocean
H = 07 19 43
Mag 6 1/2
Ottawa
eP 07 32 17
Penticton
eP 07 32 33
Seven Falls
eP 07 32 34

JUNE 12
Resolute
P 09 08 08

JUNE 12
Resolute
eP 15 56 22 d

JUNE 12
Resolute
P 16 00 20

JUNE 12
Resolute
P 16 03 33

JUNE 13
U.S.C.G.S.
44 1/2S, 76 1/2W
Off coast of southern
Chile
H = 05 47 05
Halifax
eP 06 00 09 ? d
Ottawa
iP 06 00 11 d
Seven Falls
iP 06 00 15 c
Resolute
P' 06 05 56

JUNE 13
H = 12 31 47.6
Penticton
iP 12 32 13.9
eS 12 32 34.0
D = 164 km

JUNE 13
H = 13 44 18.4
Penticton
eP 13 46 21
eS 13 48 17
D = 930 km

JUNE 13
Penticton
eP 15 01 33

JUNE 14
U.S.C.G.S.
43S, 73W
Near coast of southern
Chile
H = 02 54 13
Halifax
eP 03 07 06 ?
Ottawa
eP 03 07 05

JUNE 14
Resolute
eP 04 22 24 c

JUNE 14
Resolute
P 04 32 02

JUNE 14
U.S.C.G.S.
44 1/2N, 149E
Kurile Islands
H = 04 27 00
Resolute
P 04 36 24

JUNE 14
Resolute
P 07 01 40

JUNE 14
Resolute
P 08 06 30

JUNE 14
Resolute
P 10 02 56

JUNE 14
Resolute
P 11 16 19

JUNE 14
H = 15 10 52.3
Alberni
iP 15 10 02.6'
iS 15 10 10.5
D = 65 km

JUNE 14
Resolute
P 22 13 30

JUNE 14
Resolute
P 23 34 04

JUNE 15
Resolute
P 04 34 52

JUNE 15
Resolute
P 04 43 16

JUNE 15
Resolute
P 05 33 51

JUNE 15
Penticton
eP 06 07 52

JUNE 15
Resolute
P 08 28 39

JUNE 15
Ottawa
eP 11 30 38

JUNE 15
Resolute
eP 13 58 22 c

JUNE 15
Resolute
P 14 29 32

JUNE 15
U.S.C.G.S.
41N, 142 1/2E
Near north coast of
Honshu, Japan
H = 15 36 51
Penticton
eP 15 47 34
Resolute
iP 15 46 52 c
S 15 54 58
Seven Falls
eP 15 49 42
Victoria
eP 15 47 24 c

JUNE 15
Resolute
P 19 56 39

JUNE 15
H = 20 06 14.4
Penticton
iP 20 06 47.0
i 20 06 49.9
eS 20 07 13
D = 213 km

JUNE 15
U.S.C.G.S.
1/2S, 133E
Western New Guinea
H = 23 27 40
Ottawa
iP' 23 46 51 d
Resolute
eP 23 41 31 c
Seven Falls
eP' 23 46 53

JUNE 15
U.S.C.G.S.
26S, 178 1/2E
South of Fiji Islands
H = 23 32 35
h = 600 km
Halifax
eP' 23 50 33 ?
Ottawa
iP' 23 50 19
Resolute
P' 23 50 12

JUNE 16
Resolute
P 03 24 05

JUNE 16
U.S.C.G.S.
12N, 143 1/2E
Mariana Islands
H = 03 24 42
h = 150 km
Resolute
P 03 37 17

JUNE 16
U.S.C.G.S.
12 1/2N, 125E
Near coast of Samar,
Philippine Islands
H = 06 37 48
Resolute
P 06 51 10

JUNE 16
U.S.C.G.S.
11 1/2N, 144E
Mariana Islands
H = 09 55 28
Resolute
eP 10 08 13 c

JUNE 16
Resolute
P 16 19 54

JUNE 16
Penticton
eP 17 35 16
Resolute
P 17 35 31

JUNE 17
Resolute
iP 05 23 43 c

JUNE 17
Resolute
P 10 39 49

JUNE 17
Resolute
eP 14 03 06 c

JUNE 17
Resolute
P 14 15 56

JUNE 17
U.S.C.G.S.
52 1/2N, 173 1/2W
Andreanof Islands
H = 16 35 32
Mag 6
Ottawa
iP 16 45 35
i 16 45 44
Resolute
P 16 42 53
i 16 45 10
Seven Falls
eP 16 45 43
i 16 45 52
Victoria
eP 16 42 02 c ?

JUNE 17
Resolute
P 16 48 57

JUNE 17
Resolute
P 17 23 43

JUNE 17
Ottawa
eP 17 26 33

JUNE 17
Resolute
P 18 10 17

JUNE 17
Resolute
P 18 15 15

JUNE 17
Ottawa
iP 20 46 25 d

JUNE 17
Resolute
P 20 45 47

JUNE 18
Ottawa
eP 02 15 48 c

JUNE 18
Resolute
P 02 51 15

JUNE 18
U.S.C.G.S.
9 1/2S, 152 1/2E
D'entrecasteaux Islands
H = 03 19 04
Ottawa
eP' 03 38 10 c

JUNE 19
Canadian Arctic
H = 00 45 15
h = 32 km
Mag 3.2
Resolute
eP_n 00 45 49.5
i 00 45 51.2
iP_1 00 45 55.7
S_n 00 46 16.2
S_1 00 46 24.2
D = 250 km

JUNE 19
Halifax
P 02 52 35

JUNE 19
Halifax
iP 05 37 54 ? c

JUNE 19
Ottawa
eP 08 02 12 d

JUNE 19
Resolute
P 09 25 20

JUNE 19
Halifax
P 10 30 09 ?
Ottawa
eP 10 30 10

JUNE 19
U.S.C.G.S.
15S, 178 1/2W
Fiji Islands region
H = 12 21 53
h = 500 km
Banff
iP 12 33 47 d
Victoria
eP 12 34 17

JUNE 19
U.S.C.G.S.
44 1/2N, 149E
Kurile Islands
H = 12 34 34
Resolute
P 12 44 00

JUNE 19
U.S.C.G.S.
38N, 142 1/2E
Bonin Islands
H = 17 17 25
Resolute
P 17 28 46
i 17 38 00

JUNE 20
U.S.C.G.S.
38S, 73 1/2W
Near coast of Chile
H = 02 01 08
Mag 7
Halifax
eP 02 13 36 ? c
Ottawa
eP 02 13 36
Seven Falls
eP 02 13 46

JUNE 20
Victoria
eP 02 29 17 d

JUNE 20
Resolute
P 08 12 23

JUNE 20
U.S.C.G.S.
39 1/2S, 73W
Chile
H = 12 59 40
Mag 6 3/4
Banff
eP 13 13 14
Ottawa
iP 13 12 14 c
Resolute
P 13 14 34
i 13 18 22
i 13 19 14
iS 13 27 00
i 13 29 03
Seven Falls
eP 13 12 22 c
Victoria
eP 13 13 18 d

JUNE 20
Ottawa
eP 13 36 40
Seven Falls
eP 13 36 50

JUNE 20
U.S.C.G.S.
Near coast of
southern Chile
H = 14 23 30
Ottawa
eP 14 36 15
Seven Falls
eP 14 36 21

JUNE 20
Resolute
P 15 43 20

JUNE 20
U.S.C.G.S.
57N, 154 1/2W
Kodiak Island, Alaska
H = 16 56 25
Ottawa
eP 17 05 03
Resolute
P 17 02 19

JUNE 20
U.S.C.G.S.
38 1/2S, 74W
Off coast of Chile
H = 16 59 35
Ottawa
eP 17 12 04
Seven Falls
eP 17 12 13

JUNE 20
Resolute
iP 17 58 13 c

JUNE 20
U.S.C.G.S.
36 1/2N, 139 1/2E
Honshu, Japan
H = 22 56 49
Resolute
P 23 07 22

JUNE 21
Ottawa
eP 06 45 25

JUNE 21
U.S.C.G.S.
4 1/2S, 105W
Pacific Ocean
H = 08 34 39
Ottawa
eP 08 44 22
Resolute
P 08 46 45
i 08 56 47

JUNE 21
U.S.C.G.S.
2S, 80 1/2W
Near coast of Ecuador
H = 14 05 57
Resolute
P 14 17 49

JUNE 21
H = 21 27 23.3
Victoria
eP 21 27 42.8 d ?
iS 21 27 57.7
D = 122 km

JUNE 21
U.S.C.G.S.
61 1/2S, 21W
Sandwich Islands region
H = 21 33 45
Ottawa
eP' 21 53 28
i 21 54 21
Resolute
P' 21 53 19
Seven Falls
eP' 21 53 33

JUNE 22
U.S.C.G.S.
62S, 156 1/2E
Antarctic Ocean
H = 02 58 24
Ottawa
eP' 03 18 13
Resolute
P' 03 18 25

JUNE 22
Ottawa
eP 04 33 11

JUNE 22
U.S.C.G.S.
Near coast of Chile
H = 06 40 10
Halifax
eP 06 52 45 c ?
Ottawa
iP 06 52 45 d

JUNE 22
U.S.C.G.S.
Near coast of southern Chile
H = 08 11 50
Ottawa
iP 08 24 52 c

JUNE 22
Halifax
eP 09 09 42 d
Ottawa
eP 09 09 39 d

JUNE 22
U.S.C.G.S.
12N, 57 1/2E
Arabian Sea
H = 16 12 00
Resolute
P 16 25 12

JUNE 22
U.S.C.G.S.
52N, 173W
Andreanof Islands
H = 23 28 50
Halifax
eP 23 39 40.5 d ?
Ottawa
eP 23 38 58
Resolute
P 23 36 08
i 23 38 24
Seven Falls
eP 23 39 07
Victoria
iP 23 35 16 d

JUNE 23
Victoria
eP 00 34 28 d ?

JUNE 23
Resolute
P 23 39 00

JUNE 24
H = 11 51 09.6 ?
Not located
Alberni
iP 11 51 48.8
Victoria
iP 11 51 14.2
iS 11 51 17.7

JUNE 25
Victoria
eP 01 32 11 c

JUNE 25
U.S.C.G.S.
30 1/2S, 177W
Kermadec Islands
H = 02 02 35
Resolute
P' 02 21 22

JUNE 25
U.S.C.G.S.
6 1/2N, 72 1/2W
Colombia
H = 13 53 37
Alberni
eP 14 03 54
Halifax
iP 14 01 07 c
i 14 03 15
Ottawa
iP 14 01 07 c
Resolute
iP 14 04 46 c
iS 14 13 34
i 14 14 31
Seven Falls
iP 14 01 21 c
Victoria
iP 14 03 45 c

JUNE 25
Resolute
P 15 01 34
i 15 08 44

JUNE 25
U.S.C.G.S.
28S, 68W
Catamarca Province, Argentina
H = 19 35 27
h = 100 km

Halifax
iP 19 46 49
Ottawa
iP 19 46 53 d
Seven Falls
eP 19 47 02
i 19 47 27
Shawinigan Falls
iP 19 46 59 d
Victoria
eP 19 48 22

JUNE 26
Resolute
P 00 10 34

JUNE 26
48.9N, 122.4W
Northeast of Bellingham, Washington
H = 06 33 17.8
Alberni
iP 06 33 46.2
Penticton
eP 06 33 51
Victoria
iP 06 33 30.9 d

JUNE 26
U.S.C.G.S.
26S, 71E
Indian Ocean
H = 16 48 40
Ottawa
eP' 17 08 26
Resolute
P' 17 07 55
Shawinigan Falls
iP' 17 08 19 c

JUNE 27
Resolute
P 17 09 13
i 17 18 32

JUNE 27
Resolute
P 19 59 19

JUNE 28
Resolute
P 08 32 20

JUNE 28
Resolute
P 14 34 43

JUNE 28
Resolute
P 15 49 48

JUNE 28
Resolute
P 21 13 04

JUNE 29
Ottawa
eP 01 29 34
i 01 30 36
Shawinigan Falls
eP 01 29 33
i 01 30 42
i 01 30 50

JUNE 29
Resolute
P 01 54 55

JUNE 29
U.S.C.G.S.
Southern Chile
H = 01 57 14
Halifax
eP 02 10 06
Ottawa
eP 02 10 07

Seven Falls
eP 02 10 15
Shawinigan Falls
eP 02 10 12

JUNE 29
Resolute
P 02 16 02
i 02 25 04

JUNE 29
U.S.C.G.S.
30S, 177 1/2W
Kermadec Islands
H = 04 29 12
Halifax
eP 04 48 19
Resolute
P 04 47 58
i 04 57 02

JUNE 29
30N, 139E
South of Honshu, Japan
H = 05 14 56
h = 500 km
Resolute
iP 05 25 23 c
Victoria
eP 05 25 42 c

JUNE 29
Ottawa
eP 09 57 22
Shawinigan Falls
eP 09 57 30

JUNE 29
Resolute
i 10 11 40

DOMINION OBSERVATORIES

JUNE 29
U.S.C.G.S.
47 1/2N, 27W
Atlantic Ocean
H = 10 23 02
Halifax
eP 10 28 30
Ottawa
eP 10 29 40
Resolute
P 10 30 31
Seven Falls
eP 10 29 05
Shawinigan Falls
eP 10 29 18

JUNE 29
U.S.C.G.S.
53N, 168 1/2W
Fox Islands
H = 17 07 00
Ottawa
eP 17 16 45
Resolute
P 17 13 58
S 17 19 34
Seven Falls
eP 17 16 52
Shawinigan Falls
eP 17 16 49 c

JUNE 29
Resolute
P 17 50 22

JUNE 29
Shawinigan Falls
eP 21 05 43

JUNE 30
U.S.C.G.S.
60N, 151W
Kenai Peninsula,
Alaska
H = 19 58 33
Halifax
iP 20 07 38 d
Ottawa
iP 20 06 50 d
Resolute
iP 20 03 53 d
S 20 08 10
Seven Falls
iP 20 06 58
Shawinigan Falls
iP 20 06 54 d
Victoria
eP 20 03 06 d ?

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the second quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 10 at 01 59 10 U.T. Magnitude 1.9. Originated 230 km from Resolute, N.W.T. at a depth of about 5 km.

APRIL 17 at 12 41 35 U.T. Magnitude 1.8. Originated 208 km from Resolute, N.W.T. at a depth of about 29 km.

MAY 17 at 19 15 04 U.T. Magnitude 4.8. Originated 850 km from Resolute, N.W.T. at a depth of about 11 km.

MAY 19 at 07 44 37 U.T. Magnitude 2.8. Originated 198 km from Resolute, N.W.T. at a depth of about 24 km.

MAY 28 at 11 32 52 U.T. Magnitude 3.6. Originated 516 km from Resolute, N.W.T. at a depth of about 31 km.

JUNE 7 at 13 57 39 U.T. Magnitude 2.0. Originated 225 km from Resolute, N.W.T. at a depth of about 10 km.

JUNE 19 at 00 45 15 U.T. Magnitude 3.2. Originated 250 km from Resolute, N.W.T. at a depth of about 32 km.

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the second quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 1 at 17 11 12 U.T. Magnitude 2.5. Epicentre at 46°56'N, 75°38'W. A few miles east of the northern arm of Baskatong Reservoir, Quebec. This is similar to a disturbance recorded in the same area, on January 20, 1960 at 20 07 40 U.T.

APRIL 23 at 11 47 52 U.T. Magnitude 4.0. Epicentre at 47°32'N, 70°18'W. About nine miles southwest of La Malbaie, Que. Felt at La Malbaie, Quebec.

APRIL 28 at 09 28 33 U.T. Originated 148 km from Halifax, N.S. Possibly a blast.

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the first quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

JANUARY 2 at 12 08 02 U.T. Magnitude 3.5 Off coast of Washington.

JANUARY 2 at 18 34 09.4 U.T. Magnitude 2.2 Epicentre at 48°45'N, 123°16'W. South Pender Island.

JANUARY 7 at 09 16 04.4 U.T. Magnitude 3.6 Epicentre at 46°56'N, 122°30'W. Southern Puget Sound, near Olympia, Wash.

JANUARY 12 at 07 52 55 U.T. Magnitude 2.3 Epicentre at 48.2N, 124.9W. Off coast of Washington.

JANUARY 16 at 07 31 01 U.T. Magnitude 3.5 Epicentre at 46°45'N, 121°47'W. Southern Puget Sound Area, southwest corner of Mt. Rainier National Park, Washington.

JANUARY 19 at 09 00 54 U.T. Magnitude 3.3 Epicentre at 51°06'N, 124°29'W. Southwest of Chilko Lake, B.C.

FEBRUARY 2 at 09 51 59.5 U.T. Magnitude 4.3 Epicentre at 45° 03'N, 128°00'W. Off coast of Oregon.

FEBRUARY 3 at 04 18 36.5 U.T. Magnitude 4.0 Epicentre at 44° 31'N, 126°28'W. Off coast of Oregon.

FEBRUARY 6 at 01 10 35.4 U.T. Magnitude 2.4 Epicentre 48°44'N, 121°32'W. Southeast of Mt. Baker, Washington.

FEBRUARY 10 at 16 48 15.0 U.T. Magnitude 1.9 Epicentre 48°51'N, 123°00'W. Strait of Georgia.

FEBRUARY 11 at 12 35 08.6 U.T. Magnitude 2.5 Epicentre 49°49'N, 123°46'W. Near entrance to Jervis Inlet.

FEBRUARY 13 at 11 33 49.5 U.T. Magnitude 1.2 Epicentre 48°20'N, 123°41'W. Strait of Juan de Fuca.

FEBRUARY 16 at 16 26 48 U.T. 197 km from Victoria.

FEBRUARY 19 at 00 05 55.5 U.T. Magnitude 2.1 Epicentre at 48.7N, 123.7W. Southern Vancouver Island.

FEBRUARY 19 at 23 13 02 U.T. Magnitude 2.4 238 km from Victoria.

FEBRUARY 25 at 11 29 58.3 U.T. 198 km from Alberni.

FEBRUARY 26 at 05 48 46.6 U.T. Magnitude 1.5 Epicentre at 48.8N, 123.6W. Southern Vancouver Island.

FEBRUARY 29 at 18 53 49 U.T. Magnitude 1.5 Epicentre at 48.8N, 123.6W. Southern Vancouver Island.

MARCH 12 at 07 22 44 U.T. Magnitude 2.0 52 km from Alberni.

MARCH 14 at 19 17 45 U.T. Magnitude 4.1 Epicentre at 44 1/2N, 129 1/2W. Off coast of Oregon.

MARCH 14 at 20 57 23 U.T. Magnitude 4.4 Epicentre at 45N, 128W. Off coast of Oregon.

MARCH 17 at 18 08 10 U.T. Magnitude 2.1 Epicentre at 47.6N, 122.1W. East of Seattle Washington.

MARCH 22 at 01 13 48 U.T. Magnitude 1.8 Epicentre at 49°03'N, 122°14'W. Sumas Region.

MARCH 22 at 10 31 51.9 U.T. Magnitude 1.9 Epicentre at 48°44'N, 123°15'W. South Pender Island.

MARCH 25 at 07 01 51.2 U.T. Magnitude 1.3 41 km from Victoria.

MARCH 27 at 01 39 21.3 U.T. Magnitude 2.5 Epicentre at 48°51'N, 123°18'W. Strait of Georgia.

MARCH 28 at 07 25 44.6 U.T. Magnitude 1.2 Epicentre at 48°44'N, 123°12'W. South Pender Island.

MARCH 31 at 11 41 49 U.T. Magnitude 3.9 Epicentre at 49.2N, 128.6W. Off west coast of Vancouver Island.

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the second quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 1 at 14 12 05 U.T. Magnitude 4.2. Epicentre at 48.8N, 129.5 W. West of Vancouver Island.

APRIL 1 at 14 42 44 U.T. Magnitude 3.1. Epicentre at 48.9N, 128.8W. Off west of Vancouver Island.

APRIL 1 at 23 20 06 U.T. Magnitude 1.8. Epicentre at 49.8N, 124.5W. South of Powell River.

APRIL 4 at 13 26 40 U.T. About 700 km from Penticton.

APRIL 5 at 10 46 25 U.T. About 90 km from Penticton.

APRIL 5 at 23 29 29 U.T. 290 km from Penticton.

APRIL 6 at 09 14 16 U.T.

APRIL 7 at 16 06 31 U.T. About 200 km from Penticton.

APRIL 7 at 20 56 02 U.T. 178 km from Penticton.

APRIL 7 at 21 45 09.4 U.T. 22 km from Victoria.

APRIL 9 at 14 33 05.5 U.T. Epicentre at 48.6N, 122.7W. Gulf Islands.

APRIL 9 at 20 59 36.4 U.T. Epicentre at 48.4N, 122.6W. Whidbey Islands.

APRIL 11 at 05 55 16 U.T. 500 km from Penticton.

APRIL 11 at 06 47 34.5 U.T. Magnitude 3.3. Epicentre at 47.6N, 122.2W. Southwest of Seattle, Washington.

APRIL 12 at 13 37 13.2 U.T. Seattle aftershock. 380 km from Penticton.

APRIL 12 at 15 18 26.5 U.T. 138 km from Penticton.

APRIL 12 at 15 50 13.2 U.T. 138 km from Penticton.

APRIL 14 at 00 37 51.8 U.T. Epicentre at 48.5 N, 130.4W. Off west coast of Vancouver Island.

DOMINION OBSERVATORIES

APRIL 15 at 08 10 51.8 U.T. 164 km from Penticton.

APRIL 16 at 00 27 20.8 U.T. 180 km from Penticton.

APRIL 16 at 13 09 36.2 U.T. Epicentre at 48.4N, 122.5W. Northeast of Whidbey Island.

APRIL 19 at 00 08 16.4 U.T. 176 km from Penticton.

APRIL 20 at 17 02 05.6 U.T. 192 km from Penticton.

APRIL 20 at 22 23 53 U.T. Epicentre at 48.5N, 123.8W.

APRIL 21 at 05 22 47.3 U.T. 199 km from Penticton.

APRIL 21 at 17 48 44 U.T. 1300 km from Penticton.

APRIL 22 at 22 58 38.6 U.T. 339 km from Penticton.

APRIL 23 at 00 53 46.2 U.T. 164 km from Penticton.

APRIL 26 at 03 49 30.6 U.T. 20 km from Penticton.

APRIL 27 at 00 59 46.9 U.T. 21 km from Penticton.

APRIL 27 at 04 32 30 U.T. Epicentre at 44 1/2N, 111W. Hebgen Lake, Montana.

APRIL 27 at 04 44 02.2 U.T. 171 km from Horseshoe Bay.

APRIL 29 at 02 06 19.2 U.T. Epicentre at 48.5N, 123.8W.

APRIL 30 at 11 38 04.2 U.T. 166 km from Alberni.

MAY 4 at 08 27 25.8 U.T. 255 km from Penticton.

MAY 4 at 20 35 25.4 U.T. 175 km from Penticton.

MAY 5 at 03 39 35.9 U.T. Near Hebgen Lake, Montana (?).

MAY 10 at 17 41 37.5 U.T. 40 km from Victoria.

MAY 12 at 16 08 44.2 U.T. Epicentre at 44.7N, 127W. Off west coast Oregon.

MAY 13 at 01 11 12.0 (?) U.T. Not located.

MAY 14 at 12 56 22.1 U.T. Epicentre at 48.4N, 125.4W. Off west coast of Vancouver Island.

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MAY 18 at 02 01 02.3 U.T. 128 km from Penticton.

MAY 18 at 04 31 07.4 U.T. 13 km from Alberni.

MAY 23 at 02 47 22.6 (?) 180 km from Victoria.

MAY 24 at 23 15 17.4 U.T. Epicentre at 48.3N, 124.3W. Entrance to Juan de Fuca Strait.

MAY 25 at 22 03 50.0 U.T. 56 km from Alberni.

MAY 26 at 07 32 20.2 U.T. Epicentre at 48.7N, 123.2W. North of San Juan Island.

MAY 30 at 02 05 25.2 U.T. 230 km from Victoria.

MAY 31 at 03 45 56.4 U.T. 196 km from Penticton.

JUNE 6 at 01 17 48 U.T. Magnitude 5 1/2. Epicentre at 41N, 125W. Off coast northern California.

JUNE 8 at 05 09 56 U.T. Epicentre at 48.8N, 123.1W. Strait of Georgia near Saturna Island.

JUNE 13 at 12 31 47.6 U.T. 164 km from Penticton.

JUNE 13 at 13 44 18.4 U.T. 930 km from Penticton.

JUNE 13 at 15 01 33. Recorded at Penticton.

JUNE 14 at 15 10 52.3 U.T. 65 km from Alberni.

JUNE 15 at 20 06 14.4 U.T. 213 km from Penticton.

JUNE 21 at 21 27 23.3 U.T. 122 km from Victoria.

JUNE 24 at 11 51 09.6 (?) U.T. Not located.

JUNE 26 at 06 33 17.8 U.T. Epicentre at 48.9N, 122.4W. Northeast of Bellingham, Washington.

ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa, 1960

SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

Seismological Bulletin
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1960

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1961

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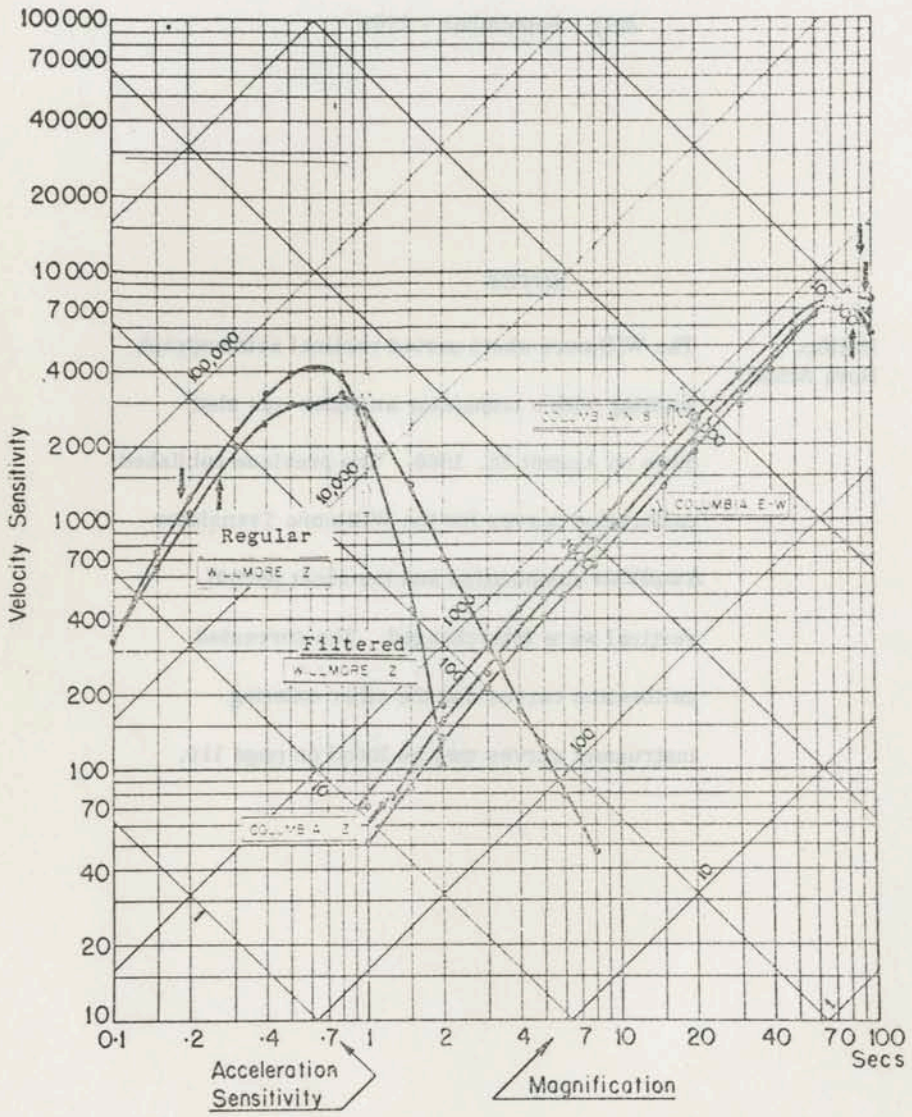
NOTES

Halifax
Nova Scotia

The Willmore short period vertical seismograph working with a transistor amplifer was shut down on August 25, 1960. The previous published calibration curves for the Willmore Transistor Amplifier combination and the short period vertical were interchanged. The corrected calibration curves and the other existing instrument curves may be found on page 110.

CALIBRATION CURVES

STATION: HALIFAX



ϕ = 44°38'N λ = 68°36'W Altitude 56 M

Foundation : Carbonaceous slate

T_s ⇧ T_g ⇧

Date of Calibration: June 1960

Columbia LP-EW June 10/60
Columbia LP-NS June 10/60
Columbia LP Z June 17/60

Regular Willmore SPZ - June 3/60
Filtered Willmore SPZ - June 6/60

JULY 1
Resolute
P 05 05 17

JULY 1
U.S.C.G.S.
56N, 165E
Komandorskie Islands
H = 07 58 58
Ottawa
eP 08 09 58
Resolute
P 08 06 29
S 08 12 28
Seven Falls
eP 08 10 00 c
Shawinigan Falls
eP 08 10 00
Victoria
eP 08 06 54

JULY 1
Resolute
P 12 33 17 d

JULY 1
U.S.C.G.S.
11 1/2N, 142 1/2E
Mariana Islands
H = 17 40 38
h = 60 km
Resolute
P 17 53 21

JULY 2
U.S.C.G.S.
51 1/2N, 173 1/2W
Andreanof Islands
H = 04 29 30
Halifax
eP 04 40 23
Ottawa
eP 04 39 40
Resolute
P 04 36 58
Seven Falls
eP 04 39 48
Shawinigan Falls
eP 04 39 45 d

JULY 2
U.S.C.G.S.
56S, 27W
Sandwich Islands
H = 11 55 41
Halifax
P' 12 14 11
Ottawa
eP' 12 14 41
Resolute
P' 12 14 52
i 12 17 51
Seven Falls
eP' 12 14 41
Shawinigan Falls
eP' 12 14 42 d
Victoria
eSKP 12 18 06

JULY 2
U.S.C.G.S.
41N, 131 1/2E
Sea of Japan
H = 12 44 21
h = 550 km
Alberni
eP 12 54 28
Resolute
eP 12 53 40 c
Victoria
eP 12 54 31

JULY 3
U.S.C.G.S.
52N, 174W
Andreanof Islands
H = 03 19 19
Halifax
P 03 30 11
Ottawa
eP 03 29 29
Shawinigan Falls
eP 03 29 33

JULY 3
U.S.C.G.S.
52N, 173W
Andreanof Islands
H = 05 16 08
Shawinigan Falls
eP 05 26 22

JULY 3
U.S.C.G.S.
52N, 173 1/2W
Andreanof Islands
H = 07 16 14
Halifax
P 07 27 06.5
Ottawa
eP 07 26 25
Shawinigan Falls
eP 07 26 29 d

JULY 3
48.7N, 123.2W
North San Juan Island
H = 11 02 31.5
Alberni
iP 11 02 55.7
iS 11 03 12.7
Victoria
iP 11 02 34.0
iS 11 02 37.3

JULY 3
Alberni
iP 19 51 54

JULY 3
U.S.C.G.S.
50 1/2N, 177W
Andreanof Islands
H = 20 20 46
Banff
iP 20 28 20 d

DOMINION OBSERVATORIES

Halifax
iP 20 31 55.5
Ottawa
iP 20 31 15 d
Seven Falls
eP 20 31 21 d
Shawinigan Falls
iP 20 31 19 d

JULY 3
Ottawa
eP 21 00 15
Seven Falls
eP 21 00 10
Shawinigan Falls
eP 21 00 14

JULY 3
U.S.C.G.S.
50 1/2N, 177W
Andreanof Islands
H = 22 52 24
Resolute
P 23 00 04

JULY 3
Banff
iP 23 30 00 c

JULY 3
Resolute
P 23 57 32

JULY 4
Resolute
eP 04 19 56 c

JULY 4
U.S.C.G.S.
52N, 131 1/2W
Queen Charlotte Islands
H = 04 28 33
Mag 6 1/2
Alberni
iP 04 29 46.6
Halifax
P 04 36 46
Ottawa
eP 04 35 42
Resolute
P 04 34 19
iS 04 39 00
Seven Falls
eP 04 35 58
Shawinigan Falls
eP 04 35 54
Victoria
iP 04 30 02.6

JULY 4
Resolute
P 07 46 45

JULY 4
52N, 131W
Queen Charlotte Islands
H = 08 11 50.4
Alberni
iP 08 12 47.9
Victoria
eP 08 13 21

JULY 4
U.S.C.G.S.
8S, 71W
Western Brazil
H = 08 02 07
Resolute
P 08 13 39

JULY 4
U.S.C.G.S.
52N, 131W
Queen Charlotte Islands
H = 08 51 20
Alberni
iP 08 52 29.2
Banff
iP 08 54 00
eS 08 56 30
Resolute
P 08 57 05
S 09 01 48
Victoria
eP 08 52 52
eS 08 54 26

JULY 4
Ottawa
eP 09 10 23

JULY 4
U.S.C.G.S.
52N, 130 1/2W
Queen Charlotte Islands
H = 11 13 17
h = 600 km
Victoria
eP 11 15 04
eS 11 16 31

JULY 4
52N, 131W
Queen Charlotte Islands
H = 12 51 47
Alberni
iP 12 52 58.7
Banff
eP 12 54 30
eS 12 57 10
Victoria
eP 12 53 20
eS 12 54 46

JULY 4
U.S.C.G.S.
52N, 171W
Queen Charlotte Islands
H = 13 10 05
Mag 6
Alberni
iP 13 11 17.2
Banff
iP 13 12 50
eS 13 15 30 d
Resolute
P 13 15 53
S 13 20 32
Seven Falls
eP 13 17 30
Shawinigan Falls
eP 13 17 25
Victoria
eP 13 11 37
eS 13 13 03

JULY 4
Victoria
eP 18 15 07

JULY 4
52N, 132W
Queen Charlotte Islands
H = 18 21 53.4
Alberni
eP 18 23 13
eS 18 24 25
Penticton
eP 18 23 51
eS 18 25 36
Victoria
eP 18 23 27
e- 18 24 40
eS 18 24 55

JULY 4
Ottawa
eP 21 42 13
Shawinigan Falls
eP 21 42 20

JULY 5
Resolute
P 01 42 10

JULY 5
U.S.C.G.S.
51 1/2N, 178 1/2W
Andreanof Islands
H = 05 07 59
Penticton
iP 05 15 06 d
Resolute
P 05 15 29
i 05 17 36
Shawinigan Falls
eP 05 18 29
Victoria
eP 05 14 52 c ?

JULY 5
Resolute
eP 05 21 21 c

JULY 5
U.S.C.G.S.
39S, 73 1/2W
Near coast of Chile
H = 05 45 26
Shawinigan Falls
eP 05 58 03

JULY 5
Resolute
P 17 18 20

JULY 5
Victoria
iP 18 37 05

JULY 5
U.S.C.G.S.
8S, 71 1/2W
Western Brazil
H = 21 15 09
h = 600 km
Halifax
iP 21 23 35 (c)
Ottawa
eP 21 23 38 c
Resolute
P 21 26 42
Seven Falls
eP 21 23 49

JULY 6
U.S.C.G.S.
36 1/2N, 70 1/2E
Hindu Kush region
H = 05 16 44
h = 200 km
Ottawa
eP 05 29 39
Penticton
iP 05 29 44 d
Resolute
iP 05 27 30 c
i 05 28 40
S 05 36 16
Victoria
eP 05 29 46

JULY 6
San Juan Island or
Race Rocks area
H = 07 03 51.2
Victoria
iP 07 03 56.4
iS 07 04 00.4
D = 32 km

DOMINION OBSERVATORIES

JULY 7
Shawinigan Falls
eP 16 00 05

JULY 7
Halifax
P 17 50 14
Ottawa
iP 17 50 15 d
Shawinigan Falls
eP 17 50 21

JULY 7
San Juan Island area ?
Race Rocks area ?
H = 20 59 10
Victoria
iP 20 59 19.2 c
iS 20 59 22.4
D = 26 km

JULY 7
U.S.C.G.S.
39S, 73W
Near coast of Chile
H = 21 40 57
Ottawa
iP 21 53 31
Seven Falls
eP 21 53 41
Shawinigan Falls
eP 21 53 35

JULY 7
Victoria
iP 23 35 34 c

JULY 8
U.S.C.G.S.
52N, 174 1/2W
Andreanof Islands
H = 10 09 11
Ottawa
iP 10 19 24 c
Resolute
P 10 16 32
Shawinigan Falls
eP 10 19 27 c

JULY 8
U.S.C.G.S.
31N, 130 1/2E
Near south coast of
Kyushu, Japan
H = 12 51 21
Resolute
iP 13 02 36 c
Victoria
iP 13 03 17 c

JULY 8
Resolute
P 13 44 34

JULY 8
U.S.C.G.S.
7S, 129E
Banda Sea
H = 14 44 40
Resolute
P 14 59 04

JULY 8
Resolute
P 16 58 56

JULY 9
U.S.C.G.S.
25 1/2N, 125 1/2E
Ryukyu Islands
H = 00 42 29
Resolute
P 00 54 21

JULY 9
Resolute
P 02 18 21
Shawinigan Falls
eP 02 15 35

JULY 9
46°18'N, 73°02'W
About 18 miles east
of St. Gabriel, Que.
H = 07 39 59.1
Mag 2.6
Montreal
P_1 07 40 14.8
S_1 07 40 27.0
D = 100 km
Ottawa
P_1 07 40 36,5
S_1 07 41 04.8
D = 232 km
Seven Falls
P_1 07 40 28.1
S_1 07 40 51.6
D = 193 km
Shawinigan Falls
P_1 07 40 07.0
S_1 07 40 11.3
D = 35.3 km

JULY 9
Resolute
P 08 23 15

JULY 9
Resolute
P 18 06 55

JULY 9
Canadian Arctic
H = 19 23 08.6
Mag 2.2
Resolute
iP_1 19 23 27
i 19 23 32.5
iS_1 19 23 41
D = 115 km

JULY 9
41N, 21E
Southern Yugoslavia
H = 22 42 50
Resolute
P 22 52 40

JULY 9
Resolute
P 23 33 00

JULY 10
U.S.C.G.S.
0, 93E
Off west coast of
Sumatra
H = 00 05 18
Resolute
P 00 19 28
i 00 30 04
Seven Falls
eP' 00 24 36
Shawinigan Falls
eP' 00 24 40

JULY 10
U.S.C.G.S.
12 1/2N, 86W
Near coast of
Nicaragua
H = 13 39 55
h = 150 km
Ottawa
eP 13 46 33
Resolute
P 13 50 06
S 13 58 24
Seven Falls
eP 13 46 57
Shawinigan Falls
eP 13 46 49 c

JULY 10
Resolute
P 14 00 13

JULY 10
Resolute
P 20 00 10

JULY 10
U.S.C.G.S.
53 1/2S, 134E
South of Australia
H = 20 22 51
Resolute
P' 20 42 55

JULY 10
San Juan Island area ?
Race Rocks area ?
H = 23 27 44.0
Victoria
eP 23 27 48.3 d ?
eS 23 27 51.6
D = 27 km

JULY 11
H = 01 31 34.8
Victoria
iP 01 31 48.0
iS 01 31 58.1
D = 83 km

JULY 11
U.S.C.G.S.
38S, 75W
Off coast of Chile
H = 06 58 28
Ottawa
iP 07 10 57 c
Seven Falls
eP 07 11 06
Shawinigan Falls
eP 07 11 03

JULY 11
U.S.C.G.S.
54S, 140 1/2E
South of Australia
H = 07 33 32
Resolute
P' 07 53 25

JULY 11
U.S.C.G.S.
51 1/2N, 173W
Andreanof Islands
H = 11 54 16
Halifax
P 12 05 10
Ottawa
iP 12 04 29 d
Seven Falls
eP 12 04 36 d
Shawinigan Falls
eP 12 04 33 d

JULY 11
U.S.C.G.S.
16S, 172W
Tonga Islands region
H = 11 55 10
Mag 6 1/4
Banff
iP 12 07 54
Resolute
P 12 09 06
Victoria
iP 12 07 09 d

JULY 11
Penticton
eP 19 45 12

JULY 11
H = 21 59 43
Penticton
P_1 22 00 08.4
S_1 22 00 27.7
D = 158 km

DOMINION OBSERVATORIES

JULY 12
H = 05 24 03.6
Penticton
iP 05 24 17.5 c
eS 05 24 28.1
D = 87 km

JULY 12
48.4N, 125.0W
Off west coast
H = 13 22 11.4
Alberni
iP 13 22 27.6
Penticton
ePⓅ 13 22 57.6
Victoria
iP 13 22 30.7
iS 13 22 45.4

JULY 12
U.S.C.G.S.
41N, 142E
Off coast of northern Honshu, Japan
H = 17 00 25
Resolute
eP 17 10 25 c

JULY 12
Resolute
P 18 09 18

JULY 13
U.S.C.G.S.
42 1/2N, 143E
Near south coast of Hokkaido, Japan
H = 02 30 18
Banff
iP 02 41 14 d
Resolute
iP 02 40 05 c

JULY 13
Banff
iP 07 29 56
Penticton
eP 07 29 24

JULY 13
U.S.C.G.S.
53 1/2S, 1 1/2E
Bouvet Island region
H = 07 55 54
Penticton
eP' 08 15 04
e 08 15 34
Resolute
P' 08 15 34
i 08 27 40
Victoria
eP' 08 15 44

JULY 13
U.S.C.G.S.
Greece
H = 10 20 25
Resolute
P 10 30 26
Shawinigan Falls
eP 10 31 18

JULY 13
U.S.C.G.S.
41N, 23 1/2E
Greece
H = 13 01 00
Halifax
iP 13 11 18 c
Ottawa
eP 13 12 04
Resolute
P 13 10 56
Seven Falls
eP 13 11 39
Shawinigan Falls
eP 13 11 48

JULY 13
U.S.C.G.S.
17N, 94 1/2W
Oaxaca, Mexico
H = 16 23 56
h = 150 km
Banff
eP 16 31 20
iS 16 31 48
Halifax
P 16 31 35.5
Ottawa
iP 16 30 15 c
Penticton
eP 16 30 59
i 16 31 33
Resolute
P 16 33 36
i 16 34 05
S 16 41 22
Seven Falls
eP 16 31 15
Shawinigan Falls
eP 16 30 34
Victoria
eP 16 31 12

JULY 13
Shawinigan Falls
eP 21 01 35

JULY 13
U.S.C.G.S.
9 1/2S, 75W
Central Peru
H = 21 45 09
h = 150 km
Shawinigan Falls
eP 21 54 32
iP_cP 21 55 07

JULY 14
U.S.C.G.S.
5N, 127 1/2E
Molucca Passage
H = 10 26 58
Halifax
P' 10 46 12
Ottawa
iP' 10 46 05 c
Resolute
P 10 40 31
Seven Falls
eP' 10 46 04 c
Shawinigan Falls
eP' 10 46 04

JULY 14
Penticton
iP 11 26 46

JULY 14
Resolute
i 19 04 06

JULY 14
U.S.C.G.S.
36N, 70E
Hindu Kush
H = 22 11 06
h = 100 km
Resolute
P 22 22 06

JULY 15
Penticton
eP 12 01 03

JULY 15
Penticton
iP 12 07 22 c

JULY 15
H = 21 07 09.7
Mag 2 3/4
Victoria
eP 21 07 51.8
iS 21 08 27.3
D = 290 km

JULY 15
Halifax
P 23 48 17
Shawinigan Falls
eP 23 48 59

JULY 16
U.S.C.G.S.
21 1/2S, 67W
Southern Bolivia
H = 04 44 34
h = 150 km
Halifax
iP 04 55 23 c
Seven Falls
iP 04 55 27 c
Shawinigan Falls
eP 04 55 25

JULY 16
49.7N, 124.5W
Texada Island
Mine Blast
H = 05 16 30.2
Alberni
iP 05 16 38.2
iS 05 16 44.3

JULY 16
U.S.C.G.S.
21 1/2N, 143E
Mariana Island region
H = 17 17 44
h = 300 km
Resolute
iP 17 29 10 c

JULY 16
U.S.C.G.S.
65 1/2N, 167 1/2W
Seeward Peninsula
Alaska
H = 21 19 37
Ottawa
eP 21 28 36
Resolute
eP 21 24 58 d
S 21 29 16
Shawinigan Falls
eP 21 28 40

JULY 16
U.S.C.G.S.
65 1/2N, 167 1/2W
Seeward Peninsula
Alaska
H = 22 02 53
Ottawa
eP 22 11 53
Resolute
P 22 08 15
S 22 12 32
Shawinigan Falls
eP 22 11 58

JULY 17
Resolute
P 02 06 45

JULY 17
U.S.C.G.S.
12N, 125 1/2E
Samar Philippine Islands
H = 02 15 07
Resolute
P 02 28 07

JULY 17
Resolute
P 04 58 28

DOMINION OBSERVATORIES

JULY 17
U.S.C.G.S.
36N, 69E
Hindu Kush
H = 05 14 56
h = 200 km
Resolute
P 05 25 44
S 05 34 46

JULY 17
H = 07 11 50.8
Mag 1 1/2
Banff
iP 07 11 55.8 c
iS 07 11 59.6
D = 31 km

JULY 18
U.S.C.G.S.
Nicobar Islands
H = 00 53 54
Resolute
P 01 07 33

JULY 18
U.S.C.G.S.
4 1/2S, 151E
New Britain region
H = 01 43 29
h = 200 km
Banff
eP 01 56 38 d ?
Halifax
P' 02 02 22
Ottawa
eP' 02 02 08
Resolute
P 01 57 01
Seven Falls
eP' 02 02 12
Shawinigan Falls
eP' 02 02 10 d
Victoria
eP 01 56 13 c

JULY 18
U.S.C.G.S.
56N, 111E
Lake Baikal U.S.S.R.
H = 04 40 54
Resolute
P 04 49 38

JULY 18
H = 09 46 29.8
Victoria
eP 09 47 07.2 d ?
eS 09 47 38.1
D = 253 km

JULY 18
Penticton
eP 23 21 48

JULY 18
H = 23 23 09.1
Mag 2
Penticton
iP 23 23 17.5 d
iS 23 23 23.0
D = 52 km

JULY 19
U.S.C.G.S.
1N, 87 1/2W
Galapagos, Islands region
H = 02 42 30
Ottawa
eP 02 50 52
Resolute
P 02 54 11
Seven Falls
eP 02 51 13
Shawinigan Falls
eP 02 51 06

JULY 19
U.S.C.G.S.
7S, 80W
Near coast of Peru
H = 04 19 14
Banff
eP 04 29 58
Halifax
eP 04 28 37
Ottawa
eP 04 28 26
Penticton
eP 04 30 01
Resolute
P 04 31 34
Seven Falls
eP 04 28 43
Shawinigan Falls
iP 04 28 38 d
Victoria
eP 04 30 08 c

JULY 19
U.S.C.G.S.
16 1/2N, 92 1/2W
Chiapas Mexico
H = 16 03 18
Banff
eP 16 10 34
e 16 11 17
Ottawa
eP 16 09 33
Penticton
iP 16 10 36
e 16 11 20
Resolute
P 16 13 44
i 16 20 41
i 16 22 06
Shawinigan Falls
eP 16 10 25
i 16 10 39
Victoria
eP 16 10 40 c

JULY 19
U.S.C.G.S.
13 1/2N, 146E
Mariana Islands
H = 18 29 31
h = 100 km
Penticton
eP 18 41 49
Resolute
P 18 41 59

JULY 20
H = 02 12 13.0
Mag 1 1/2
Penticton
iP 02 12 41.1 d
iS 02 12 55.2
D = 178 km

JULY 20
H = 06 54 13.4
Mag 1 1/2
Alberni
iP 06 54 18.2
iS 06 54 21.9
D = 30 km

JULY 20
U.S.C.G.S.
49N, 157E
Kurile Islands region
H = 09 30 38
Banff
iP 09 39 54 c
Halifax
iP 09 42 51 c
Ottawa
iP 09 42 22 d
Penticton
iP 09 39 47 c
Resolute
iP 09 39 19 d
S 09 46 12
Seven Falls
eP 09 42 24
Shawinigan Falls
iP 09 42 24 d
Victoria
iP 09 39 35 c

JULY 20
U.S.C.G.S.
20 1/2S, 169E
New Hebrides Islands
H = 20 59 25
h = 200 km
Halifax
iP' 21 18 18 c
Ottawa
iP' 21 18 01 c
Penticton
eP 21 12 24 d
Resolute
P' 21 17 40
Seven Falls
iP' 21 18 07 c
Shawinigan Falls
eP' 21 18 05

JULY 20
H = 21 38 17.5
Mag 2 1/2
Penticton
eP 21 38 45
iS 21 39 06
D = 172 km

JULY 20
U.S.C.G.S.
Southern Chile
H = 21 38 20
Ottawa
eP 21 50 51 d
Shawinigan Falls
eP 21 50 55

JULY 21
H = 00 20 49.7
Mag 2 1/2
Penticton
iP 00 21 19.1 d
e 00 21 20.6
iS 00 21 41.9
D = 186 km

JULY 21
Penticton
iP 05 16 54 d ?

JULY 21
Resolute
P 05 17 59

JULY 21
Penticton
eP 08 08 46

JULY 21
Penticton
eP 08 35 47 c ?

JULY 21
Resolute
P 08 41 38

JULY 21
H = 19 09 55.5
Mag 3
Penticton
iP 19 10 28.1
iS 19 10 54.1
D = 213 km

JULY 21
Resolute
P 20 05 05

JULY 21
U.S.C.G.S.
27N, 142 1/2E
Bonin Islands
H = 20 51 20
Resolute
P 21 02 43

JULY 22
H = 07 18 05.4
Mag 4 1/4
Penticton
iP 07 18 56.8 c
iS 07 19 41.6
D = 367 km

JULY 22
Penticton
iP 11 20 08 c

JULY 22
H = 14 22 44
Mag 2 3/4
Penticton
iP 14 23 11.3 c
iS 14 23 32.3
D = 172 km

JULY 22
Penticton
eP 21 28 53
e 21 29 29

JULY 22
H = 23 45 45.9
Mag 1 1/2
Victoria
eP 23 46 03.0
eS 23 46 16.1
D = 108 km

JULY 23
Penticton
eP 04 14 44

JULY 23
45°43'N, 73°40'W
About 15 miles north
of Montreal, Quebec
H = 05 49 06.5
Mag 2.9
Montreal
P_1 05 49 10.6
S_1 05 49 13.4
D = 23 km
Ottawa
P_1 05 49 32.3
S_1 05 49 52.3
D = 164 km
Seven Falls
e 05 49 48.7
S_1 05 50 19.5
D = 280 km
Shawinigan Falls
P_1 05 49 25
S_1 05 49 39
D = 115 km

JULY 23
Penticton
eP 07 31 25

JULY 23
U.S.C.G.S.
21 1/2S, 179 1/2W
Fiji Islands
H = 07 31 38
h = 600 km
Penticton
eP 07 43 30
Victoria
eP 07 43 19 c

JULY 23
H = 17 54 19.0
Mag 2
Victoria
eP 17 54 39.3
eS 17 54 54.8
D = 127 km

JULY 24
U.S.C.G.S.
56N, 164E
Near coast of
Kamchatka
H = 09 48 56
Halifax
P 10 00 39
Ottawa
iP 09 59 50 d
Penticton
iP 09 58 09 c
Resolute
P 09 56 28
S 10 02 06
Seven Falls
eP 09 59 51
Shawinigan Falls
eP 09 59 51
Victoria
eP 09 56 58 d

JULY 25
U.S.C.G.S.
55N, 163E
Near coast of
Kamchatka
H = 03 41 05
Mag 6 1/2
Halifax
eP 03 52 47
Ottawa
eP 03 52 06
Penticton
eP 03 50 24
Resolute
P 03 48 44
S 03 54 54

Seven Falls
eP 03 52 09
Shawinigan Falls
eP 03 52 08

JULY 25
Victoria
eP 04 04 15

JULY 25
U.S.C.G.S.
17 1/2S, 178W
Fiji Islands
H = 10 27 00
h = 500 km
Penticton
iP 10 39 43 d

JULY 25
U.S.C.G.S.
54N, 159E
Kamchatka
H = 11 12 00
h = 100 km
Mag 6 3/4
Alberni
iP 11 20 16
Banff
iP 11 20 43 d
eS 11 25 47
Halifax
iP 11 23 38
Ottawa
eP 11 23 09 c
Penticton
iP 11 21 35 d
Resolute
iP 11 19 55 c
S 11 26 11
Seven Falls
eP 11 23 10 c
Shawinigan Falls
iP 11 23 10 c
Victoria
iP 11 20 24

JULY 25
U.S.C.G.S.
53.4N, 159.4E
Near coast of
Kamchatka
H = 15 30 36.6
h = 152 km
Halifax
P 15 42 11
Resolute
eP 15 38 27 d

JULY 25
H = 20 06 31.5
Penticton
eP 20 06 55
eS 20 07 13
D = 150 km

JULY 26
U.S.C.G.S.
40 1/2N, 144 1/2E
Off east coast of
Hokkaido Japan
H = 03 55 54
Resolute
eP 04 05 52 d

JULY 26
U.S.C.G.S.
40 1/2N, 37E
Turkey
H = 12 36 20
Banff
iP 12 48 59
Halifax
P 12 47 28
Penticton
eP 12 49 10
Resolute
P 12 46 35

JULY 26
H = 18 46 31.4
Mag 1
Banff
iP 18 46 35.8 d
iS 18 46 39.2
D = 28 km

JULY 27
U.S.C.G.S.
44.7S, 75.1W
Near coast of
Southern Chile
H = 10 04 53.0
h = 25 km
Mag 6 1/4
Halifax
P 10 17 56
Ottawa
iP 10 17 52 c
Seven Falls
eP 10 18 01
Shawinigan Falls
eP 10 18 00

JULY 27
H = 15 36 33
Mag 1 1/2
Banff
iP 15 36 37
iS 15 36 40
D = 25 km

JULY 27
H = 16 08 56
Mag 1 1/4
Penticton
iP 16 09 00.2
iS 16 09 03.4
D = 26 km

DOMINION OBSERVATORIES

JULY 27
H = 16 44 36.8
Alberni
eP 16 44 47
Penticton
iP 16 44 45.0
iS 16 44 51.3
D = 52 km

JULY 28
47.8N, 121.8W
40 km northeast of
Seattle
H = 07 21 54.3
Mag 2 1/4
Alberni
eP 07 22 36.1
Penticton
S - P = 28.7"
Victoria
eP 07 22 17.2 c
iS 07 22 34.7

JULY 28
48 1/2N, 122W
40 km southeast of
Bellingham
H = 09 10 14.0
Alberni
iP 09 10 53.2
eS 09 11 23.2
Penticton
S - P = 27.4"
Victoria
iP 09 10 33.2
iS 09 10 49.8

JULY 28
H = 20 40 53.5 ± 1 sec.
Penticton
iP 20 41 19.0
iS 20 41 38.5
D = 160 km

JULY 29
U.S.C.G.S.
19 1/2S, 170 1/2E
Loyalty Islands
H = 00 24 06
Mag 6 1/2
Halifax
P' 00 43 21
Ottawa
iP' 00 43 05 d
Penticton
eP 00 37 28
Resolute
i 00 38 44
i 00 43 16
Seven Falls
eP' 00 43 11 d
Shawinigan Falls
eP' 00 43 09
Victoria
eP 00 37 13 d

JULY 29
H = 00 53 11.8
Penticton
iP 00 53 41.0
iS 00 54 03.7
D = 185 km

JULY 29
U.S.C.G.S.
40.1N, 142.3 E
Honshu, Japan
H = 17 31 39.5
h = 50 km
Mag 6 3/4
Alberni
eP 17 42 04
Banff
eP 17 42 28
Halifax
P 17 44 48
Ottawa
eP 17 44 27 c
Penticton
iP 17 42 19
Resolute
P 17 41 38
S 17 49 44
Seven Falls
eP 17 44 31
Shawinigan Falls
eP 17 44 27 c
Victoria
eP 17 42 10 d

JULY 30
U.S.C.G.S.
1.4S, 79.1W
Ecuador
H = 02 04 49.4
h = 21 km
Penticton
iP 02 15 08 d ?

JULY 30
H = 06 06 46.6
Penticton
iP 06 06 52.8
iS 06 06 57.5
D = 39 km

JULY 30
Penticton
iP 07 25 29

JULY 30
U.S.C.G.S.
56.3N, 163.9E
Near coast of Kamchatka
H = 14 12 35.5
h = 21 km
Penticton
iP 14 20 46

JULY 30
H = 20 24 48.4
Penticton
iP 20 25 06.7
iS 20 25 20.7
D = 115 km

SEISMOLOGICAL BULLETIN - 1960

JULY 31
5.6S, 150.0E
New Britain
H = 02 55 46.2
h = 25 km
Mag 6 3/4
Banff
eP 03 09 17
Halifax
P' 03 14 56
PKS 03 18 24
Ottawa
iP' 03 14 43 d
Penticton
eP 03 09 06
Resolute
P 03 09 40
S 03 20 36
i 03 23 00
Shawinigan Falls
eP' 03 14 46 d
Victoria
eP 03 09 01 c ?

JULY 31
U.S.C.G.S.
43.6S, 74.3W
Near coast of Central
Chile
H = 14 55 03.3
h = 97 km
Halifax
iP 15 07 59 c
Shawinigan Falls
eP 15 07 57

AUGUST 1
48.9N, 121.7W
Northeast of Mt. Baker
U.S.A.
H = 01 45 44
Mag 2
Penticton
iP 01 46 07.5 c
iS 01 46 25.7
Victoria
eP 01 46 06.4
e? 01 46 30.1

AUGUST 1
H = 02 00 42.7
Penticton
iP 02 00 44.4
iS 02 00 45.7
i 02 00 46.3
D = 10 km

AUGUST 2
H = 03 46 28.5
Mag 2
Penticton
iP 03 46 42.2
eS 03 46 52.6
D = 85.3 km

AUGUST 2
U.S.C.G.S.
22.2S, 171.5E
Loyalty Islands
H = 05 07 22
h = 108 km
Mag 6 1/2
Penticton
eP 05 20 32 c?
Resolute
P' 05 26 33
i 05 27 04
Shawinigan Falls
eP' 05 26 09
i 05 27 50
Victoria
eP 05 20 20

AUGUST 2
U.S.C.G.S.
51.5N, 178.3W
Andreanof Islands
H = 06 14 47
h = 34 km
Alberni
iP 06 21 30
Halifax
eP 06 25 51
Penticton
eP 06 21 55
Resolute
P 06 22 20
i 06 24 25
Victoria
iP 06 21 38.8 c

AUGUST 2
H = 06 51 14.9
Mag 2
Penticton
iP 06 51 26.6 c
eS 06 51 35
D = 73 km

AUGUST 2
U.S.C.G.S.
28.2S, 176.6W
Kermadec Islands
H = 09 30 26
h = 61 km
Victoria
eP 09 43 20

AUGUST 2
U.S.C.G.S.
4.5S, 104.7W
Southwest of Galapagos
Islands
H = 13 42 28
h = 93 km
Penticton
eP 13 51 53
Resolute
P 13 54 27
S 14 04 28

AUGUST 2
Alberni
iP 14 10 50
Victoria
eP 14 09 11

DOMINION OBSERVATORIES

AUGUST 2
U.S.C.G.S.
84.2N, 2.3E
North Polar region
H = 20 51 03.8
h = 40 km
Resolute
eP 20 54 55 d

AUGUST 2
Resolute
P 21 01 18

AUGUST 2
Alberni
iP 22 47 15

AUGUST 3
Shawinigan Falls
eP 01 26 18

AUGUST 3
Penticton
eP 02 31 20

AUGUST 4
H = 01 37 53.8
Mag 2 3/4
Penticton
iP 01 38 33.8 c?
eP 01 39 07
D = 270 km

AUGUST 4
U.S.C.G.S.
51.4N, 179.1E
Rat Islands
H = 07 34 53.8
Mag 6
h = 83 km
Alberni
eP 07 41 27
Banff
eP 07 42 22
Halifax
P 07 46 01
Ottawa
eP 07 45 23
Resolute
P 07 42 28
i 07 44 10
S 07 48 04
Seven Falls
eP 07 45 32
Victoria
iP 07 41 50.4 d
iP 07 41 54.4

AUGUST 4
U.S.C.G.S.
51N, 179.4E
Rat Islands
H = 09 08 36
h = 100 km
Penticton
eP 09 15 52
Victoria
iP 09 15 37 c

AUGUST 4
Penticton
eP 13 09 13

AUGUST 4
Penticton
eP 13 32 29 c?

AUGUST 4
U.S.C.G.S.
51.3N, 178.8E
Rat Islands
H = 14 05 28
h = 59 km
Penticton
eP 14 12 48
Resolute
P 14 13 04

AUGUST 4
Penticton
eP 16 49 09

AUGUST 4
Resolute
P 21 31 16

AUGUST 5
U.S.C.G.S.
50.5N, 130.3W
Queen Charlotte
Islands region
H = 08 45 31
h = 25 km
Alberni
iP 08 46 29
Resolute
S 08 56 20
Victoria
iP 08 46 47.3 c

AUGUST 5
Victoria
eP 08 56 27

AUGUST 5
U.S.C.G.S.
50.1N, 156.8E
Off south coast of
Kamchatka
H = 16 06 33
h = 42 km
Halifax
P 16 18 37
Penticton
iP 16 15 36 d
Resolute
P 16 15 02
S 16 41 23
Victoria
iP 16 15 23.0 c

SEISMOLOGICAL BULLETIN - 1960

AUGUST 5
U.S.C.G.S.
9.5S, 118.8E
Sumba Island
H = 16 26 23.5
h = 64 km
Halifax
P' 16 45 58

AUGUST 5
Victoria
eP 22 19 36

AUGUST 5
U.S.C.G.S.
51.0N, 178.7E
Rat Islands
H = 22 27 34
h = 15 km
Halifax
eP 22 38 49
Ottawa
eP 22 38 16
Resolute
P 22 35 16
i 22 37 17
Shawinigan Falls
eP 22 38 12
i 22 39 15
Victoria
iP 22 34 43.4

AUGUST 6
Victoria
eP 02 58 37

AUGUST 6
Canadian Arctic
H = 06 22 --
Mag 2.5 - 3.5
Resolute
iP_1 06 23 10.0
D = 100 - 200 km

AUGUST 6
Alberni
iP 08 32 31

AUGUST 6
Victoria
eP 08 39 28

AUGUST 6
Resolute
P 12 55 37
Victoria
eP 12 55 26

AUGUST 6
U.S.C.G.S.
42.4S, 74.8W
Near coast of Chile
H = 14 49 44.9
h = 35 km
Ottawa
eP 15 02 32
Shawinigan Falls
eP 15 02 38

AUGUST 6
Resolute
i 15 19 26

AUGUST 6
Victoria
eP 15 55 38

AUGUST 7
Penticton
eP 10 09 45

AUGUST 7
Halifax
P 16 29 57
Ottawa
eP 16 30 04
Shawinigan Falls
eP 16 30 04

AUGUST 8
H = 03 24 32.3
Mag 2 3/4
Victoria
iP 03 24 51.0 c
iS 03 25 05.3
D = 117 km

AUGUST 8
Halifax
P 07 17 02

AUGUST 8
Resolute
i 09 25 20

AUGUST 8
Resolute
i 12 53 17

AUGUST 8
U.S.C.G.S.
36N, 27.3E
Dodecanese Islands
H = 20 36 28.4
h = 87 km
Shawinigan Falls
eP 20 47 38

AUGUST 9
U.S.C.G.S.
21.2S, 71.6W
Off coast of Chile
H = 06 10 11
h = 104 km
Penticton
eP 06 22 24 c?
Shawinigan Falls
eP 06 21 00
Victoria
eP 06 22 30

DOMINION OBSERVATORIES

AUGUST 9
U.S.C.G.S.
51.1N, 156.8E
Off south coast of Kamchatka
H = 06 21 46.9
h = 10 km
Penticton
eP 06 30 00
Resolute
P 06 29 26
Victoria
eP 06 29 58

AUGUST 9
U.S.C.G.S.
56.1N, 164.2E
Off east coast of Kamchatka
H = 06 58 05.5
h = 37 km
Penticton
eP 07 06 16
Resolute
P 07 05 52
Victoria
eP 07 06 05

AUGUST 9
U.S.C.G.S.
40N, 126.6W
Off coast of Northern California
H = 07 39 22.6
Mag 6
Alberni
eP 07 41 33
Halifax
P 07 47 (47)
P 07 48 00
Ottawa
eP 07 46 33
Penticton
eP 07 41 49.7 c
Resolute
P 07 46 34
iS 07 52 28
Seven Falls
eP 07 47 04
Shawinigan Falls
eP 07 46 51
Victoria
iP 07 41 24 c

AUGUST 9
48 3/4N, 121 3/4W
Near Mt. Baker
H = 10 47 18.7
Mag 2 3/4
Alberni
eP 10 47 49.2
eS 10 48 12.9
Penticton
eP 10 47 45
eS 10 48 05
Victoria
eP 10 47 36 d

AUGUST 9
U.S.C.G.S.
47.5N, 142.7E
Sakhalin Island
H = 14 02 39.3
h = 35 km
Halifax
eP 14 15 09
Penticton
eP 14 12 45 d ?
Resolute
P 14 11 50
Victoria
eP 14 12 35

AUGUST 9
U.S.C.G.S.
24.5S, 177.1W
Tonga Islands region
H = 16 46 37.7
h = 186 km
Penticton
iP 16 59 20 d
Resolute
i 17 05 31
S 17 13 18
Victoria
eP 16 59 08 d
iS ? 17 09 52

AUGUST 10
Resolute
i 00 02 32

AUGUST 10
U.S.C.G.S.
8.9N, 83.5W
Near coast of Costa Rica
H = 12 38 48.3
h = 25 km
Halifax
iP 12 46 20
Ottawa
iP 12 45 56 d
Resolute
P 12 49 31
Shawinigan Falls
iP 12 46 10 d

AUGUST 11
U.S.C.G.S.
52.2N, 176.2W
Andreanof Islands
H = 02 36 56.5
h = 97 km
Alberni
iP 02 43 21 c
Halifax
P 02 47 44
Ottawa
iP 02 47 03 c
Penticton
iP 02 43 44 d
Shawinigan Falls
eP 02 47 06 c
Victoria
iP 02 43 30 c

AUGUST 11
U.S.C.G.S.
0.0, 121.6E
Celebes
H = 02 53 16.3
h = 46 km
Halifax
P' 03 12 36
Ottawa
iP' 03 12 30 c
Shawinigan Falls
eP' 03 12 29

AUGUST 11
U.S.C.G.S.
8.8N, 126.1E
Mindanao, Philippine Islands
H = 04 50 33.9
h = 79 km
Alberni
i 05 06 40 d
Halifax
eP' 05 09 29.5 c
iP 05 09 29.9 d
Ottawa
eP" 05 09 22 c
Penticton
iP 05 04 06 d
Resolute
P 05 03 39
i 05 07 22
Shawinigan Falls
iP' 05 09 22 c
Victoria
iP 05 03 58 d

AUGUST 11
Alberni
iP 16 06 42

AUGUST 12
H = 03 38 17.2
Mag 2 1/2
Penticton
eP 03 38 48.4c?
eS 03 39 14
D = 200 km

AUGUST 12
Resolute
i 10 43 07

AUGUST 12
U.S.C.G.S.
36.1N, 141.4E
Near east coast of Honshu, Japan
H = 13 12 34.3
h = 95 km
Penticton
eP 13 23 32c?
Resolute
iP 13 22 55 c
Victoria
eP 13 23 22

AUGUST 12
49°30'N, 124°W
Near Sechelt
H = 16 01 34.9
Mag 1 3/4
Alberni
iP 16 01 47.5
iS 16 01 51.7
Victoria
eP 16 01 51.1
eS 16 02 04.9

AUGUST 12
Alberni
iP 16 26 12
Penticton
eP 16 26 58
Victoria
iP 16 26 30 d

AUGUST 13
Canadian Arctic
H = 06 40 31.4
Mag 1.8
Resolute
P_1 06 40 47.0
S_1 06 40 58.9
D = 97.4

AUGUST 13
U.S.C.G.S.
40.6N, 142E
Near east coast of Honshu, Japan
H = 07 11 05.5
h = 60 km
Halifax
eP 07 24 11.5 c
i 07 24 27
Ottawa
iP 07 23 52 c
Resolute
iP 07 21 02 c
S 07 29 08
Shawinigan Falls
iP 07 23 51 c
Victoria
iP 07 21 34 c

AUGUST 13
U.S.C.G.S.
39.7S, 74.8W
Near coast of southern Chile
H = 14 14 57.7
h = 61 km
Halifax
eP 14 27 29.5 d
iP 14 27 30 c
Ottawa
eP 14 27 29 d
Resolute
P 14 29 46
i 14 40 20
S 14 42 13
i 14 44 12
Seven Falls
eP 14 27 41

Shawinigan Falls
eP 14 27 35 d
Victoria
iP 14 28 31 c

AUGUST 14
U.S.C.G.S.
45.4N, 151.1E
Ryukyu Islands
H = 04 00 52.3
h = 54 km
Halifax
P 04 13 25
Ottawa
eP 04 13 00
Shawinigan Falls
eP 04 13 02

AUGUST 14
48.7°N, 124.8°W
Near Clo-oose
Vancouver Island
H = 07 37 28.8
Mag 2
Alberni
iP 07 37 39.4 c ?
Victoria
eP 07 37 46.1
eS 07 37 59.3

AUGUST 14
U.S.C.G.S.
7.2S, 146.2E
Near north coast of
New Guinea
H = 14 41 04.2
h = 200 km
Shawinigan Falls
eP' 14 59 51

AUGUST 14
U.S.C.G.S.
23.5S, 66.4W
Jujuy Province
Argentina
H = 22 46 07.6
h = 245 km
Halifax
iP 22 56 45 d
Ottawa
eP 22 56 52 d
Shawinigan Falls
iP 22 56 58 d
Victoria
iP 22 58 33 d

AUGUST 15
U.S.C.G.S.
45.3N, 148.6E
Kurile Islands
H = 05 55 48.2
h = 35 km
Victoria
eP 06 05 30 d ?

AUGUST 15
U.S.C.G.S.
13.4S, 65.8E
Indian Ocean
H = 06 58 56.4
h = 15 km
Victoria
eP' 07 18 34

AUGUST 15
U.S.C.G.S.
13.5S, 67E
Indian Ocean
H = 14 33 38.4
h = 25 km
Victoria
eP' 14 53 15

AUGUST 16
U.S.C.G.S.
16.5S, 71.5W
Southern Peru
H = 02 47 18.8
h = 113 km
Banff
eP 02 59 04
Halifax
eP 02 57 23 c
iP 02 57 23.5 d
Ottawa
eP 02 57 26 c
Shawinigan Falls
eP 02 57 34 c
Victoria
eP 02 59 14 c

AUGUST 16
47.7°N, 116.3°W
Montana, U.S.A.
H = 13 27 55.8
Banff
iP 13 28 52.3
e 13 29 28.3
Victoria
eP 13 29 06.3
eS 13 30 12.5

AUGUST 16
Banff
e 15 57 15

AUGUST 17
H = 06 39 17.6
Alberni
iP 06 39 27.8
iS 06 39 35.6
D = 64 km

AUGUST 17
U.S.C.G.S.
20.1S, 11.4W
South Atlantic Ocean
H = 09 33 49.1
h = 87 km
Ottawa
eP 09 46 26

AUGUST 17
U.S.C.G.S.
19.8S, 12.2W
South Atlantic Ocean
H = 11 24 07.2
h = 25 km
Ottawa
eP 11 36 51

AUGUST 18
H = 18 30 31.8
Mag 2.4
Penticton
eP 18 31 07.9
eS 18 31 35.4
D = 225 km

AUGUST 18
U.S.C.G.S.
44.5N, 147.6E
Kurile Islands
H = 20 47 02.5
h = 32 km
Halifax
P 20 59 48
Ottawa
eP 20 59 24
Penticton
iP 20 57 05 d
Shawinigan Falls
eP 20 59 24

AUGUST 18
H = 21 10 54.7
Mag 2.0
Penticton
eP 21 11 17
e 21 11 34
D = 139 km

AUGUST 18
H = 22 59 45.7
Mag 2.4
Penticton
eP 23 00 12
eS 23 00 32
D = 164 km

AUGUST 19
U.S.C.G.S.
40.7N, 127.2W
Off coast of Northern
California
H = 04 07 07.5
h = 27 km
Banff
eP 04 10 14
Penticton
eP 04 09 31
Victoria
eP 04 09 06

AUGUST 19
Halifax
P 09 27 35
Ottawa
eP 09 28 21

AUGUST 19
Ottawa
eP 11 21 31
Shawinigan Falls
eP 11 21 48

AUGUST 19
Penticton
eP 12 15 24

AUGUST 19
Banff
iP 12 52 00.7

AUGUST 19
U.S.C.G.S.
27N, 140.1E
Bonin Islands region
H = 12 41 31.4
h = 283 km
Penticton
eP 12 52 52 c ?
Victoria
iP 12 52 42 c

AUGUST 19
U.S.C.G.S.
54.1N, 160.6E
Near east coast of
Kamchatka
H = 17 03 39
h = 25 km
Halifax
eP 17 15 22
eP 17 15 29
Ottawa
eP 17 14 51
Penticton
eP 17 12 13
Shawinigan Falls
eP 17 15 03

AUGUST 20
U.S.C.G.S.
14.3N, 91.4W
Guatemala
H = 00 19 34.4
Mag 6
h = 158 km
Banff
eP 00 27 10 ?
Ottawa
iP 00 26 05 c
Penticton
eP 00 27 14
Shawinigan Falls
eP 00 26 24
Victoria
iP 00 27 25 d

DOMINION OBSERVATORIES

AUGUST 20
H = 18 00 22.0
Alberni
iP 18 00 30.4
iS 18 00 36.8
D = 50 km

AUGUST 20
H = 21 34 57.5
Alberni
iP 21 35 06.0
iS 21 35 12.5
D = 52 km

AUGUST 21
U.S.C.G.S.
4.3S, 143.3E
New Guinea
H = 00 18 01.5
h = 39 km
Halifax
iP' 00 37 19 c
Ottawa
eP' 00 37 04
Shawinigan Falls
eP' 00 37 05
i 00 37 30

AUGUST 21
Ottawa
eP 04 02 44

AUGUST 21
Penticton
eP 05 33 15

AUGUST 21
U.S.C.G.S.
4.9N, 125.1E
Near south coast of
Mindanao, Philippine
Islands
H = 12 49 37.6
h = 211 km
Halifax
iP' 13 08 28.5 d
Ottawa
eP' 13 08 20 d
Resolute
P 13 02 42
i 13 13 04
Shawinigan Falls
eP' 13 08 19 d

AUGUST 21
Halifax
iP 13 11 32.5 c

AUGUST 21
Penticton
eP 18 00 12

AUGUST 22
H = 06 19 23
Penticton
eP 06 20 12
Victoria
eP 06 19 49.1 c
iS 06 20 19.0
D = 163 km

AUGUST 22
Penticton
iP 18 46 10

AUGUST 23
Penticton
iP 08 02 26 c

AUGUST 23
U.S.C.G.S.
0.9N, 26W
Atlantic Ocean
H = 14 08 14.9
h = 25 km
Halifax
iP 14 17 48 d
Shawinigan Falls
eP 14 18 41

AUGUST 23
Penticton
eP 17 13 42

AUGUST 23
H = 21 45 55
Banff
eP 21 46 01
eS 21 46 06
D = 37 km

AUGUST 23
U.S.C.G.S.
14.5S, 176.4W
Fiji Islands region
H = 22 44 51.5
h = 56 km
Mag 6
Penticton
eP 22 57 03

AUGUST 24
Banff
eP 01 32 28

AUGUST 24
U.S.C.G.S.
56.3N, 163.8E
Near east coast of
Kamchatka
H = 01 44 09.9
h = 25 km
Halifax
P 01 55 48
Ottawa
iP 01 55 03 c
Penticton
eP 01 52 19
Resolute
P 01 51 43
i 01 53 14
S 01 57 14
Shawinigan Falls
eP 01 55 12
Victoria
eP 01 52 08

AUGUST 24
U.S.C.G.S.
19S, 174.1W
Tonga Islands
H = 05 49 01.1
h = 42 km
Penticton
eP 06 01 29

AUGUST 24
H = 18 27 31
Mag 2.4
Penticton
eP 18 27 58.7
eS 18 28 19.8
D = 172 km

AUGUST 24
U.S.C.G.S.
24.4N, 95E
Burma-India Border
H = 19 27 53.2
h = 145 km
Resolute
iP 19 39 56

AUGUST 24
47.7N, 122.3W
Near Seattle, U.S.A.
H = 20 10 29.4
Mag 2
Alberni
iP 20 11 08.8
iS ? 20 11 17.7
Victoria
iP 20 10 53.3 c
iS 20 11 11.6

AUGUST 25
H = 00 31 43
Mag 2.3
Penticton
eP 00 32 08
eS 00 32 27
D = 156 km

AUGUST 25
U.S.C.G.S.
52.7N, 169.6W
Fox Islands
H = 17 41 58.8
h = 38 km
Halifax
eP 17 52 37
Ottawa
eP 17 51 48
Penticton
eP 17 48 15
Shawinigan Falls
eP 17 51 53
Victoria
eP 17 48 00

AUGUST 25
Alberni
eP_1 19 00 42.9
Victoria
eP_1 19 00 45.9

AUGUST 26
U.S.C.G.S.
13.5S, 165.9E
New Hebrides
H = 18 27 18.2
h = 56 km
Halifax
P' 18 46 16
Ottawa
eP' 18 46 03
Penticton
iP 18 40 15 c
Shawinigan Falls
eP' 18 46 07
Victoria
eP 18 40 02

AUGUST 27
U.S.C.G.S.
34.4N, 26.3E
Crete
H = 10 17 18.1
h = 40 km
Ottawa
eP 10 28 52
Shawinigan Falls
eP 10 28 38

AUGUST 27
U.S.C.G.S.
49.9N, 153.7E
Kurile Islands
H = 18 16 15.7
h = 220 km
Halifax
iP 18 28 06 c
Ottawa
eP 18 27 40
Penticton
iP 18 25 12 d
Resolute
iP 18 24 34
S 18 31 16
i 18 32 20
Shawinigan Falls
eP 18 27 40 d
Victoria
iP 18 25 01 d

AUGUST 27
H = 19 07 41.9
Mag 1
Victoria
eP 19 07 46.1
iS 19 07 49.3
D = 26.2 km

DOMINION OBSERVATORIES

AUGUST 28
U.S.C.G.S.
3.7N, 82.8W
South of Panama
H = 06 05 22.6
h = 108 km
Ottawa
iP 03 13 03 c
Seven Falls
eP 06 13 26
Shawinigan Falls
eP 06 13 17

AUGUST 30
H = 16 33 03
Victoria
iP 16 33 23.1 c
eS 16 33 38.5
D = 126 km

AUGUST 31
U.S.C.G.S.
39.1N, 36.3E
Turkey
H = 22 11 53.9
h = 44 km
Halifax
P 22 23 01

SEPTEMBER 1
U.S.C.G.S.
56.1N, 153.7W
Kodiak Island
H = 15 37 14.4
h = 24 km
Mag 6
Halifax
iP 15 46 44
iS 15 54 17
Ottawa
iP 15 45 54 d
Resolute
iP 15 43 14 c
iS 15 48 03
Seven Falls
eP 15 46 05
Shawinigan Falls
eP 15 45 59
Victoria
eP 15 41 47 d,N,W

SEPTEMBER 1
Victoria
iP 17 09 42

SEPTEMBER 1
U.S.C.G.S.
15.8S, 179.2E
Fiji Islands
H = 18 41 16.2
h = 33 km
Victoria
eP 18 53 28

SEPTEMBER 1
U.S.C.G.S.
16.1S, 179.6W
Fiji Islands
H = 20 02 12.8
h = 183 km
Victoria
eP 20 14 14

SEPTEMBER 2
U.S.C.G.S.
28.7N, 98.3E
Tibet
H = 13 46 10.0
h = 48 km
Resolute
P 13 57 57
S 14 07 44
Victoria
eP 13 58 10

SEPTEMBER 2
U.S.C.G.S.
52.0N, 171.4W
Fox Islands
H = 22 02 48.9
h = 49 km
Mag 5 3/4
Halifax
iP 22 13 30
iS 22 22 08
Ottawa
eP 22 12 46 c
Resolute
iP 22 09 59
S 22 15 40
Seven Falls
eP 22 12 55
Shawinigan Falls
eP 22 12 51
Victoria
eP 22 09 01
e 22 12 06

SEPTEMBER 3
Halifax
P 00 11 50

SEPTEMBER 3
U.S.C.G.S.
43.2N, 144.4E
Near north coast of
Hokkaido Japan
H = 00 19 57.3
h = 14 km
Resolute
iP 00 28 59 c

SEPTEMBER 3
U.S.C.G.S.
6.1S, 154.5E
Solomon Islands
H = 12 41 34.9
h = 457 km
Mag 6 1/2
Halifax
P' 12 59 56

Ottawa
eP' 12 59 39
Resolute
iP 12 54 40
S 13 04 38
Seven Falls
eP' 12 59 44
Shawinigan Falls
iP' 12 59 41 d
Victoria
iP 12 53 45 c

SEPTEMBER 3
U.S.C.G.S.
40.9N, 142.5E
Near north coast of
Honshu, Japan
H = 13 22 53.7
h = 112 km
Resolute
P 13 32 43

SEPTEMBER 3
U.S.C.G.S.
48.5S, 126.3E
South of Australia
H = 20 41 08.6
h = 30 km
Resolute
P' 21 00 55

SEPTEMBER 3
U.S.C.G.S.
44.6N, 149.1E
Kurile Islands
H = 23 46 23.9
h = 27 km
Mag 6 1/4
Halifax
P 23 59 08
Ottawa
eP 23 58 44
Penticton
eP 23 56 21
Resolute
iP 23 55 46 c
S 24 03 17
Seven Falls
eP 23 58 39
Shawinigan Falls
eP 23 58 44
Victoria
eP 23 56 10

SEPTEMBER 4
U.S.C.G.S.
56.3N, 153.1W
Kodiak Island
H = 05 21 22.1
h = 48 km
Ottawa
eP 05 29 56
Penticton
eP 05 26 08
Resolute
iP 05 27 16 c
S 05 32 06
Shawinigan Falls
eP 05 30 08
Victoria
eP 05 25 49

SEPTEMBER 4
Canadian Arctic
H = 10 34 04.2
Mag 2.6
Resolute
eP_1 10 34 31.9
i 10 34 35.0
i 10 34 40.3
iS_1 10 34 53.0
D = 173 km

SEPTEMBER 5
H = 10 48 00
Mag 3.0
Penticton
iP_1 10 48 29.6
iS_1 10 48 52.3
D = 186 km

SEPTEMBER 5
47.7N, 121.6E
East of Seattle
Washington
H = 14 31 55
Mag 3.0
Alberni
iP_n 14 32 32.
iS_n 14 33 03.
D = 290 km
Penticton
eP_n 14 32 (36.8)
eS_n 14 33 (05.5)
D = 235 km
Victoria
eP_1 14 32 15.6
eS_1 14 32 30.4
D = 158 km

SEPTEMBER 6
Resolute
P 07 21 34
P 07 24 17

SEPTEMBER 6
H = 13 05 30
Mag 2.0
Victoria
eP_1 13 05 47.4
eS_1 13 06 00.8
D = 107 km

SEPTEMBER 6
U.S.C.G.S.
20.4S, 169.4E
Loyalty Islands
H = 14 03 01.8
h = 35 km
Mag 6 1/4
Halifax
iP' 14 22 07 d
Ottawa
iP' 14 21 49 c
Seven Falls
eP' 14 21 55
Shawinigan Falls
iP' 14 21 03 c
Victoria
iP 14 16 01 c

DOMINION OBSERVATORIES

SEPTEMBER 6
U.S.C.G.S.
41.9N, 142.5E
Near south coast of Hokkaido Japan
H = 15 24 40.5
h = 109 km
Halifax
eP 15 37 37 d
Ottawa
eP 15 37 16
Resolute
P 15 34 23
Seven Falls
eP 15 37 16
Shawinigan Falls
eP 15 37 15
Victoria
iP 15 34 56 c

SEPTEMBER 6
U.S.C.G.S.
64.7N, 86.4W
Southampton Island Region
H = 21 24 26.4
h = 25 km
Mag 5.5 (Dom. Obs.)
Montreal
e 21 29 10
Halifax
P 21 29 50
S 21 34 40
Ottawa
eP 21 29 07
Resolute
iP_n 21 26 53
S_n 21 28 38
L_g 21 29 37
D = 1160 km
Seven Falls
eP 21 29 04
Shawinigan Falls
eP 21 29 13
i 21 31 28
e 21 33 04
e 21 34 51

SEPTEMBER 7
U.S.C.G.S.
37.2S, 16.1W
Tristan da Cunha region
H = 01 17 39.1
h = 35 km
Halifax
eP 01 30 51

SEPTEMBER 7
U.S.C.G.S.
44.3N, 149.1E
Kurile Islands
H = 11 44 56.6
h = 89 km
Ottawa
eP 11 57 11
Penticton
eP 11 54 50
Resolute
P 11 54 16
Shawinigan Falls
eP 11 57 12

SEPTEMBER 7
Victoria
iP 14 40 34 c

SEPTEMBER 7
H = 21 52 30 ?
Mag 2.1
Penticton
iP_1 21 52 (37.2)
iS_1 21 52 (51.2)
D = 115 km

SEPTEMBER 8
U.S.C.G.S.
6.2N, 126.2E
Near east coast of Mindanao, Philippine Islands
H = 11 07 40.8
h = 47 km
Halifax
eP' 11 26 47 c
e 11 30 00
Ottawa
eP' 11 26 39
Seven Falls
eP' 11 26 38
Shawinigan Falls
eP' 11 26 38 c

SEPTEMBER 8
U.S.C.G.S.
52.5N, 158.8E
Kamchatka
H = 14 32 00.3
h = 29 km
Alberni
eP 14 40 25
Halifax
iP 14 43 50 c
Ottawa
eP 14 43 21 c
Penticton
iP 14 40 46
Resolute
iP 14 40 09 c
Seven Falls
iP 14 43 23 c
Shawinigan Falls
iP 14 43 22 c

SEPTEMBER 9
U.S.C.G.S.
71.5N, 2.4W
Jan Mayen Island region
H = 16 19 15.9
h = 23 km
Shawinigan Falls
eP 16 27 03

SEPTEMBER 9
Halifax
eP 18 00 06 c
Ottawa
eP 18 00 05 d
Shawinigan Falls
eP 18 00 10 d

SEPTEMBER 9
U.S.C.G.S.
71.7N, 1.3W
Jan Mayen Island region
H = 20 04 32.7
h = 23 km
Ottawa
eP 20 12 30 d
Seven Falls
eP 20 12 10
Shawinigan Falls
eP 20 12 19

SEPTEMBER 10
U.S.C.G.S.
34.4N, 26.4E
Crete
H = 00 19 08.4
h = 10 km
Ottawa
eP 00 30 48
Seven Falls
eP 00 30 27
Shawinigan Falls
eP 00 30 34

SEPTEMBER 10
Canadian Arctic
H = 07 53 00.5
Mag 2.2
Resolute
P_1 07 53 32
S_1 07 53 56
D = 197 km

SEPTEMBER 10
U.S.C.G.S.
4.0N, 122.6E
Celebes Sea
H = 10 44 51.2
h = 629 km
Halifax
eP' 11 03 00
i 11 05 30
Ottawa
eP' 11 02 49
i 11 05 18
Shawinigan Falls
eP' 11 02 53 c

SEPTEMBER 10
U.S.C.G.S.
47.5N, 122.7W
Near Seattle
Washington, U.S.A.
H = 15 06 32.5
h = 25 km
Mag 5
Alberni
iP_2 15 07 05.2 c
Victoria
iP_1 15 06 49.0 c
D = 126 km

SEPTEMBER 10
H = 17 52 26
Mag 2.1
Alberni
eP_1 17 52 34.3
eS_1 17 52 40.7
D = 60 km

Victoria
eP_1 17 52 49.9
eS_1 17 53 09.9
D = 157 km

SEPTEMBER 10
H = 19 21 04
Mag 2.5
Alberni
eP 19 21 40.5
D = 244 km
Victoria
iP_1 19 21 19.3
iS_1 19 21 34.7
D = 99 km

SEPTEMBER 10
Ottawa
iP 20 56 55 c

SEPTEMBER 11
H = 04 29 13.6
Mag 2.5
Alberni
iP_n 04 29 41.3
iS_n 04 30 02.3
D = 172 km
Victoria
iP_1 04 29 23.3
iS_1 04 29 30.9
D = 62 km

SEPTEMBER 12
U.S.C.G.S.
60.8N, 151.9W
Southern Alaska
H = 02 44 48.1
h = 230 km
Alberni
eP 02 49 00
Halifax
eP 02 53 37
Ottawa
iP 02 52 5(
Resolute
P 02 49 51

DOMINION OBSERVATORIES

SEPTEMBER 12
Seven Falls
iP 02 52 58c
Shawinigan Falls
eP 02 52 55
Victoria
iP 02 49 13d

SEPTEMBER 12
Alberni
eP 06 03 32
Victoria
eP 06 03 41d

SEPTEMBER 12
U.S.C.G.S.
27.3N, 128.4E
Ryukyu Islands
H = 12 17 08.1
h = 48 km
Mag 6 1/2
Alberni
eP 12 29 16
Resolute
iP 12 28 45c
S 12 38 13
Victoria
iP 12 29 22c

SEPTEMBER 12
U.S.C.G.S.
7.0S, 117.0E
Java Sea
H = 16 02 05.8
h = 611 km
Halifax
iP' 16 20 33c
i 16 23 18
Seven Falls
eP' 16 20 22
i 16 23 10

SEPTEMBER 13
U.S.C.G.S.
27.0N, 140.2E
Bonin Islands Region
H = 03 09 09.7
h = 439 km
Resolute
iP 03 19 54d
Victoria
eP 03 20 05

SEPTEMBER 13
U.S.C.G.S.
13.8N, 90.3W
Guatemala
H = 17 51 10.8
h = 122 km
Ottawa
eP 17 57 45
Shawinigan Falls
eP 17 58 03

SEPTEMBER 14
U.S.C.G.S.
16.9N, 122.3E
Luzon, Philippine Islands
H = 00 34 25.3
h = 50 km
Victoria
eP 00 47 37

SEPTEMBER 14
U.S.C.G.S.
19.6N, 70.3W
Dominican Republic
H = 01 53 32.1
h = 103 km
Halifax
P 01 58 51
Ottawa
eP 01 58 58
iT 02 04 00
Shawinigan Falls
eP 01 59 05
Victoria
eP 02 02 25

SEPTEMBER 14
Halifax
P 02 22 09
Shawinigan Falls
eP 02 21 32

SEPTEMBER 14
U.S.C.G.S.
35.1S, 106.0W
South Pacific Ocean
H = 04 57 12.5
h = 40 km
Ottawa
iP 05 09 46
Shawinigan Falls
eP 05 09 55

SEPTEMBER 14
U.S.C.G.S.
20.9S, 174.1W
Tonga Islands
H = 23 18 35.1
h = 25 km
Victoria
iP 23 31 03c

SEPTEMBER 15
Victoria
eP 07 15 12

SEPTEMBER 15
U.S.C.G.S.
21.4N, 142.9E
Volcano Islands region
H = 17 57 42.7
h = 361 km
Alberni
iP 18 08 52
Victoria
iP 18 08 59c,s,e

SEPTEMBER 17
U.S.C.G.S.
49.3N, 155.4E
Kurile Islands
H = 07 52 50.8
h = 35 km
Alberni
eP 08 01 43
Halifax
P 08 05 02
Ottawa
eP 08 04 34c
Resolute
iP 08 01 29
iP 08 08 23

Shawinigan Falls
iP 08 04 35c
Victoria
eP 08 01 50

SEPTEMBER 17
U.S.C.G.S.
49.4N, 155.2E
Kurile Islands
H = 08 05 29.5
h = 28 km
Mag 6
Alberni
eP 08 14 23
Halifax
eP 08 17 40c
Ottawa
iP 08 17 14c
Resolute
P 08 14 08
i 08 21 03
Shawinigan Falls
iP 08 17 16c
Victoria
iP 08 14 30c

SEPTEMBER 17
U.S.C.G.S.
20.9S, 174.5W
Tonga Islands
H = 19 56 11.1
h = 28 km
Mag 6
Alberni
eP 20 08 40
Victoria
eP 20 08 36

SEPTEMBER 18
U.S.C.G.S.
6.8S, 129.2E
Banda Sea
H = 09 40 28.3
h = 83 km
Halifax
P' 10 00 00
Ottawa
eP' 09 59 42
Seven Falls
eP' 09 59 46
i 10 03 00
Shawinigan Falls
eP' 09 59 44

SEPTEMBER 19
U.S.C.G.S.
20.5S, 65.4W
Southern Bolivia
H = 02 01 53.0
h = 118 km
Seven Falls
iP 02 12 44c
i 02 12 52

SEPTEMBER 19
U.S.C.G.S.
15.6N, 120.0E
Luzon Island
H = 03 39 40.9
h = 97 km
Resolute
eP 03 52 20
eS 04 03 00

SEPTEMBER 19
U.S.C.G.S.
6.9N, 77.5W
Columbia-Panama Border
H = 19 01 25.4
h = 66 km
Mag 6
Ottawa
iP 19 08 45c
Resolute
eP 19 12 25
eS 19 21 23
Seven Falls
eP 19 09 03
Shawinigan Falls
eP 19 08 56
Victoria
eP 19 11 07

SEPTEMBER 21
U.S.C.G.S.
10.7N, 88.9W
Off Coast of El Salvador
H = 03 44 25.0
h = 60 km
Ottawa
eP 03 51 29
Shawinigan Falls
eP 03 51 46

SEPTEMBER 21
U.S.C.G.S.
53.4N, 166.1W
Fox Islands
H = 10 38 31.0
h = 38 km
Banff
eP 10 44 44
Ottawa
eP 10 48 04
Shawinigan Falls
eP 10 48 10
Victoria
eP 10 44 20

SEPTEMBER 21
U.S.C.G.S.
26.5N, 124.8E
East China Sea
H = 16 08 14.7
h = 207 km
Victoria
iP 16 20 24d

SEPTEMBER 22
Victoria
eP 02 16 11

SEPTEMBER 22
Victoria
eP 02 22 42

DOMINION OBSERVATORIES

SEPTEMBER 22
U.S.C.G.S.
3.3S, 29.3E
Belgian Congo
H = 09 05 36.8
h = 28 km
Mag 6 1/4
Banff
eP 09 24 36
Victoria
eP 09 24 47

SEPTEMBER 22
U.S.C.G.S.
2.8S, 29.8E
Congo
H = 09 14 58.0
h = 20 km
Banff
eP 09 33 57
Victoria
eP 09 34 07

SEPTEMBER 22
U.S.C.G.S.
51.5N, 168.8W
Fox Islands
H = 22 47 00.6
h = 33 km
Ottawa
eP 22 56 53
Shawinigan Falls
eP 22 56 58c

SEPTEMBER 23
Halifax
iP 20 21 50.2c

SEPTEMBER 23
U.S.C.G.S.
3.5S, 67.2W
Argentina
H = 23 17 11.5
h = 298 km
Halifax
iP 23 28 01d

SEPTEMBER 24
U.S.C.G.S.
41.6N, 179.3W
New Zealand region
H = 11 06 39.2
h = 43 km
Ottawa
iP' 11 25 29d
Shawinigan Falls
eP' 11 25 33d

SEPTEMBER 24
U.S.C.G.S.
2.3S, 73.3W
Northern Peru
H = 13 58 23.1
h = 122 km
Ottawa
iP 14 07 01d
Shawinigan Falls
eP 14 07 11d
i 14 07 43

SEPTEMBER 25
U.S.C.G.S.
19.5N, 145.6E
Mariana Islands
H = 17 30 18.4
h = 95 km
Resolute Bay
iP 17 42 15c?

SEPTEMBER 25
Shawinigan Falls
iP 18 51 24

SEPTEMBER 26
U.S.C.G.S.
27.4S, 68.2W
Argentina
H = 00 32 05.0
h = 25 km
Ottawa
eP 00 43 37
i 00 44 07
Seven Falls
eP 00 43 47
Shawinigan Falls
iP 00 43 44
i 00 44 13
Victoria
eP 00 45 06

SEPTEMBER 26
U.S.C.G.S.
32.4N, 131.7E
Near Coast of
Kyushu, Japan
H = 11 36 21.7
h = 15 km
Victoria
iP 11 48 06c

SEPTEMBER 26
U.S.C.G.S.
51.6N, 172.2W
Fox Islands
H = 15 13 25.8
h = 44 km
Ottawa
eP 15 23 29
Resolute Bay
eP 15 20 39?
Seven Falls
eP 15 23 39
Shawinigan Falls
eP 15 23 35
Victoria
eP 15 19 44

SEPTEMBER 26
U.S.C.G.S.
15.9S, 72.9W
Southern Peru
H = 16 58 13.9
h = 115 km
Ottawa
eP 17 08 19
Seven Falls
eP 17 08 31c
Shawinigan Falls
eP 17 08 27
Victoria
eP 17 10 06

SEISMOLOGICAL BULLETIN - 1960

SEPTEMBER 27
Shawinigan Falls
eP 03 59 31c

SEPTEMBER 27
Victoria
iP 05 20 06c

SEPTEMBER 27
U.S.C.G.S.
14.4N, 145.8E
Mariana Islands
H = 18 35 52.2
h = 109 km
Resolute Bay
iP 18 48 12c
Victoria
eP 18 47 53

SEPTEMBER 28
U.S.C.G.S.
18.0S, 178.8W
Fiji Islands
H = 17 34 58.8
h = 705 km
Victoria
eP 17 46 16

SEPTEMBER 29
Resolute
eP 00 47 41?

SEPTEMBER 29
U.S.C.G.S.
17.3S, 68.5W
Peru-Bolivia Border
H = 06 27 56.3
h = 115 km
Halifax
iP 06 38 15.5c
Ottawa
iP 06 38 15c
Resolute Bay
iP 06 41 04c?
eS? 06 51 58
Seven Falls
iP 06 38 25c
Shawinigan Falls
iP 06 38 22c
Victoria
eP 06 40 06

SEPTEMBER 29
Alberni
eP 10 14 57

SEPTEMBER 29
U.S.C.G.S.
18.9N, 144.7E
Mariana Islands
H = 11 18 52.9
h = 469 km
Mag 6 1/4
Banff
eP 11 30 26
Halifax
eP' 11 36 46.5d
Resolute Bay
iP 11 30 13d
eS 11 39 32?
Seven Falls
eP' 11 36 32
Shawinigan Falls
eP' 11 36 33
Victoria
eP 11 30 01

SEPTEMBER 29
Resolute Bay
iP 12 43 44

SEPTEMBER 29
U.S.C.G.S.
14.9N, 90.3W
Guatemala
H = 18 54 23.0
h = 56 km
Banff
eP 19 02 09
Ottawa
eP 19 00 59
Resolute Bay
iP 19 04 27
eS? 19 12 32?
Shawinigan Falls
eP 19 01 11
Victoria
eP 19 02 22

SEPTEMBER 29
U.S.C.G.S.
32.5S, 70.2W
Central Chile
H = 22 12 18.8
h = 25 km
Shawinigan Falls
eP 22 24 21

SEPTEMBER 30
U.S.C.G.S.
26.9N, 127.6E
Ryukyu Islands
H = 02 20 47.9
h = 100 km
Resolute Bay
iP 02 32 22c?

SEPTEMBER 30
U.S.C.G.S.
49.3N, 129.3W
Off Coast of
Vancouver Island
H = 03 20 20.3
h = 79 km
Alberni
eP 03 21 15
Victoria
eP 03 21 15

SEPTEMBER 30
U.S.C.G.S.
49.2N, 129.7W
Vancouver Island
region
H = 06 35 08.9
h = 55 km
Alberni
eP 06 35 59
Resolute Bay
eP 06 41 20?
eS 06 46 10?
Victoria
eP 06 36 11

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the third quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

JULY 9 at 07 34 59 U.T. Magnitude 2.6. Epicentre at 46° 18'N; 73° 02'W. About 18 miles east of St. Gabriel, Que.

JULY 23 at 05 49 07 U.T. Magnitude 2.9. Epicentre at 45° 43'N; 73° 40'W. About 15 miles north of Montreal, Que.

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the third quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

JULY 9 at 19 23 09 U.T. Magnitude 2.2. Originated 115 km from Resolute, N.W.T.

AUGUST 6 at 06 22 -- U.T. Magnitude 2.5 - 3.5. Originated 100 - 200 km from Resolute, N.W.T.

AUGUST 13 at 06 40 31 U.T. Magnitude 1.8. Originated 97.4 km from Resolute, N.W.T.

SEPTEMBER 4 at 10 34 04 U.T. Magnitude 2.6. Originated 173 km from Resolute, N.W.T. The seismic trace is abnormal and may have been the result of more than one disturbance. The above interpretation is therefore doubtful.

SEPTEMBER 6 at 21 24 26.4 U.T. Magnitude 5.5. Epicentre at 64.7N 86.4W. Depth 25 km. In the Southampton Island region.

SEPTEMBER 10 at 07 53 01. Magnitude 2.2. Originated 197 km from Resolute, N.W.T.

DOMINION OBSERVATORIES

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the third quarter of 1960. 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.

JULY 3 at 11 02 31.5 U.T. Epicentre at 48.3N, 123.6W, St. of Juan de Fuca; or at 48.7N, 123.2W, North San Juan Island. Q=c.

JULY 4 at 04 28 33 U.T. Magnitude 6 1/2 - 6 3/4. Epicentre at 52N, 131 1/2W. Queen Charlotte Islands. Q=b.

JULY 4 at 08 11 50.4 U.T. Epicentre at 52N, 131W. Queen Charlotte Islands. Q=c.

JULY 4 at 08 51 20 U.T. Epicentre at 52N, 131W. Queen Charlotte Islands. Q=d.

JULY 4 at 11 13 17 U.T. Epicentre at 52N, 130 1/2W. Queen Charlotte Islands. Q=d.

JULY 4 at 12 51 47 U.T. Epicentre at 52N, 131W. Queen Charlotte Islands. Q=d.

JULY 4 at 13 10 05 U.T. Magnitude 6. Epicentre at 52N, 131W. Queen Charlotte Islands. Q=d.

JULY 4 at 18 21 53.4 U.T. Epicentre at 52N, 132W. Queen Charlotte Islands? Q=d.

JULY 6 at 07 03 51.2 U.T. 32 km. from Victoria.

JULY 7 at 20 59 15.0 U.T. 26 km. from Victoria.

JULY 10 at 23 27 44.0 U.T. 27 km. from Victoria.

JULY 11 at 01 31 34.8 U.T. 83 km. from Victoria.

JULY 11 at 21 59 43 U.T. 158 km. from Penticton.

JULY 12 at 05 24 03.6 U.T. 87 km. from Penticton.

JULY 12 at 13 22 11.4 U.T. Epicentre at 48.4N, 125W. Off west coast. Q=c.

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JULY 15 at 21 07 09.7 U.T. Magnitude 2 3/4. 290 km. from Victoria.

JULY 17 at 07 11 50.8 U.T. 31 km. from Banff.

JULY 18 at 09 46 29.8 U.T. 253 km. from Victoria.

JULY 18 at 23 23 09.1 U.T. Magnitude 1.6. 52 km. from Penticton.

JULY 20 at 02 12 13.0 U.T. Magnitude 1 1/2. 178 km. from Penticton.

JULY 20 at 06 54 13.4 U.T. 30 km. from Alberni.

JULY 20 at 21 38 17.5 U.T. Magnitude 2 1/2. 172 km. from Penticton.

JULY 21 at 00 20 49.7 U.T. Magnitude 2 1/2. 186 km. from Penticton.

JULY 21 at 19 09 55.5 U.T. Magnitude 3? 213 km. from Penticton.

JULY 22 at 07 18 05.4 U.T. Magnitude 4 1/4. 367 km. from Penticton.

JULY 22 at 14 22 43.8 U.T. Magnitude 2 3/4. 172 km. from Penticton.

JULY 22 at 23 45 45.9 U.T. Magnitude 1 1/2. 108 km. from Victoria.

JULY 23 at 17 54 19.0 U.T. Magnitude 2. 127 km. from Victoria.

JULY 25 at 20 06 31.5 U.T. 148 km. from Penticton.

JULY 26 at 18 46 31.4 U.T. Magnitude 1. 28 km. from Banff.

JULY 27 at 15 36 33 U.T. Magnitude 1 1/2. 25 km. from Banff.

JULY 27 at 16 08 56 U.T. Magnitude 1 1/4. 26 km. from Penticton.

JULY 27 at 16 44 36.8 U.T. 68 km. from Alberni and 52 km. from Penticton.

JULY 28 at 07 21 54.3 U.T. Magnitude 2 1/4. Epicentre at 47.8N, 121.8W. 40 km. northeast of Seattle, Washington, U.S.A. Q=b.

JULY 28 at 09 10 14.0 U.T. Epicentre at 48 1/2N, 122W. 40 km. southeast of Bellingham, Washington, U.S.A. Q=c.

DOMINION OBSERVATORIES

JULY 28 at 20 40 53.5 U.T. 160 km. from Penticton.

JULY 29 at 20 53 11.8 U.T. 185 km. from Penticton.

JULY 30 at 06 06 46.6 U.T. 39 km. from Penticton.

JULY 30 at 20 24 48.4 U.T. 115 km. from Penticton.

AUGUST 1 at 01 45 43.7 U.T. Magnitude 2. Epicentre at 48.9N, 121.7W. Northeast of Mount Baker. Q=c.

AUGUST 1 at 02 00 42.7 U.T. 10 km. from Penticton.

AUGUST 2 at 03 46 30 U.T. 85.3 km. from Penticton.

AUGUST 2 at 06 51 14.9 U.T. Magnitude 2. 73 km. from Penticton.

AUGUST 2 at 16 51 16.2 U.T. Magnitude 2. 66 km. from Penticton.

AUGUST 4 at 01 37 53.8 U.T. Magnitude 2 3/4. 270 km. from Penticton.

AUGUST 8 at 03 24 32.3 U.T. Magnitude 2 3/4? 117 km. from Victoria.

AUGUST 9 at 10 47 18.9 U.T. Magnitude 2 3/4. Epicentre at 48 3/4N, 121 3/4W. Near Mount Baker. Q=b.

AUGUST 12 at 03 38 17.2 U.T. Magnitude 2 1/2. 200 km. from Penticton.

AUGUST 12 at 16 01 33.1 U.T. Magnitude 1 3/4. 113 km. from Victoria and 67 km. from Alberni.

AUGUST 14 at 07 37 28.8 U.T. Magnitude 2. Epicentre at 48.7N, 124.8W. Near Clo-oose. Q=c.

AUGUST 16 at 13 27 53.5 U.T. Magnitude 4. Epicentre at 47.7N, 116.3W. North of Kellogg, Montana, U.S.A. Q=c.

AUGUST 17 at 06 39 17.6 U.T. 64 km. from Alberni.

AUGUST 18 at 18 30 31.8 U.T. Magnitude 2.4. 225 km. from Penticton.

AUGUST 18 at 21 10 54.7 U.T. Magnitude 2.0. 139 km. from Penticton.

SEISMOLOGICAL BULLETIN - 1960

AUGUST 18 at 22 59 45.7 U.T. Magnitude 2.4. 164 km. from Penticton.

AUGUST 20 at 18 00 22.0 U.T. 50 km. from Alberni.

AUGUST 20 at 21 34 57.5 U.T. 53 km. from Alberni.

AUGUST 22 at 06 19 19.2 U.T. 380 km. from Penticton.

AUGUST 23 at 21 45 55.1 U.T. 37 km. from Banff.

AUGUST 24 at 18 27 31 U.T. Magnitude 2.4. 172 km. from Penticton.

AUGUST 24 at 20 10 29.4 U.T. Magnitude 2. Epicentre at 47.7N, 122.3W. Near Seattle, Washington, U.S.A. Q=c.

AUGUST 25 at 00 31 43 U.T. Magnitude 2.3. 156 km. from Penticton.

AUGUST 25 recorded at 19 00.6 at Alberni and Victoria.

AUGUST 27 at 19 07 42.4 U.T. 23 km. from Victoria.

AUGUST 30 at 16 33 02.9 U.T. 126 km. from Victoria.

SEPTEMBER 5 at 10 48 00 U.T. Magnitude 2.7. 186 km. from Penticton. Q=d.

SEPTEMBER 5 at 14 31 55 U.T. Magnitude 3.0. Epicentre at 47.7N, 121.6W. East of Seattle, Washington, U.S.A. Q=b.

SEPTEMBER 6 at 13 05 30 U.T. Magnitude 2. 107 km. from Victoria.

SEPTEMBER 7 at 21 52 30 U.T. Magnitude 2.1. 115 km. from Penticton.

SEPTEMBER 10 at 15 06 32.5 U.T. Magnitude 5. Epicentre at 47.5N, 122.7W. Near Seattle, Washington, U.S.A. Felt: Western Washington, U.S.A.

SEPTEMBER 10 at 17 52 26 U.T. Magnitude 2.1. 157 km. from Victoria, 60 km. from Alberni.

SEPTEMBER 10 at 19 21 04 U.T. Magnitude 2.5. Probably after-shock of Seattle, Washington, U.S.A. tremor.

SEPTEMBER 11 at 04 29 13.6 U.T. Magnitude 2.5. 62 km. from Victoria, 172 km. from Alberni.

SEPTEMBER 30 at 03 20 20.3 U.T. Epicentre at 49.3N, 129.3W.
Off coast of Vancouver Island, B.C.

SEPTEMBER 30 at 06 35 08.9 U.T. Epicentre at 49.2N, 129.7W.
Vancouver Island region, B.C.

SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

Seismological Bulletin
October - December
1960

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1961

SEISMOLOGICAL BULLETIN - 1960

OCTOBER - DECEMBER - 1960

NOTES

1. Halifax — Long Period Horizontal east west Columbia Seismograph was out of operation October 17 - October 31. As of December 28, 1960 time to be read from the beginning of minute breaks.

2. Ottawa — Long Period Vertical Columbia Seismograph was out of operation November 24. Short Period Vertical Benioff Seismograph was discontinued November 24 and December 24 and 25. As of December 2, 3 components of short period Willmore seismographs were installed and calibration curves may be found on page 148.

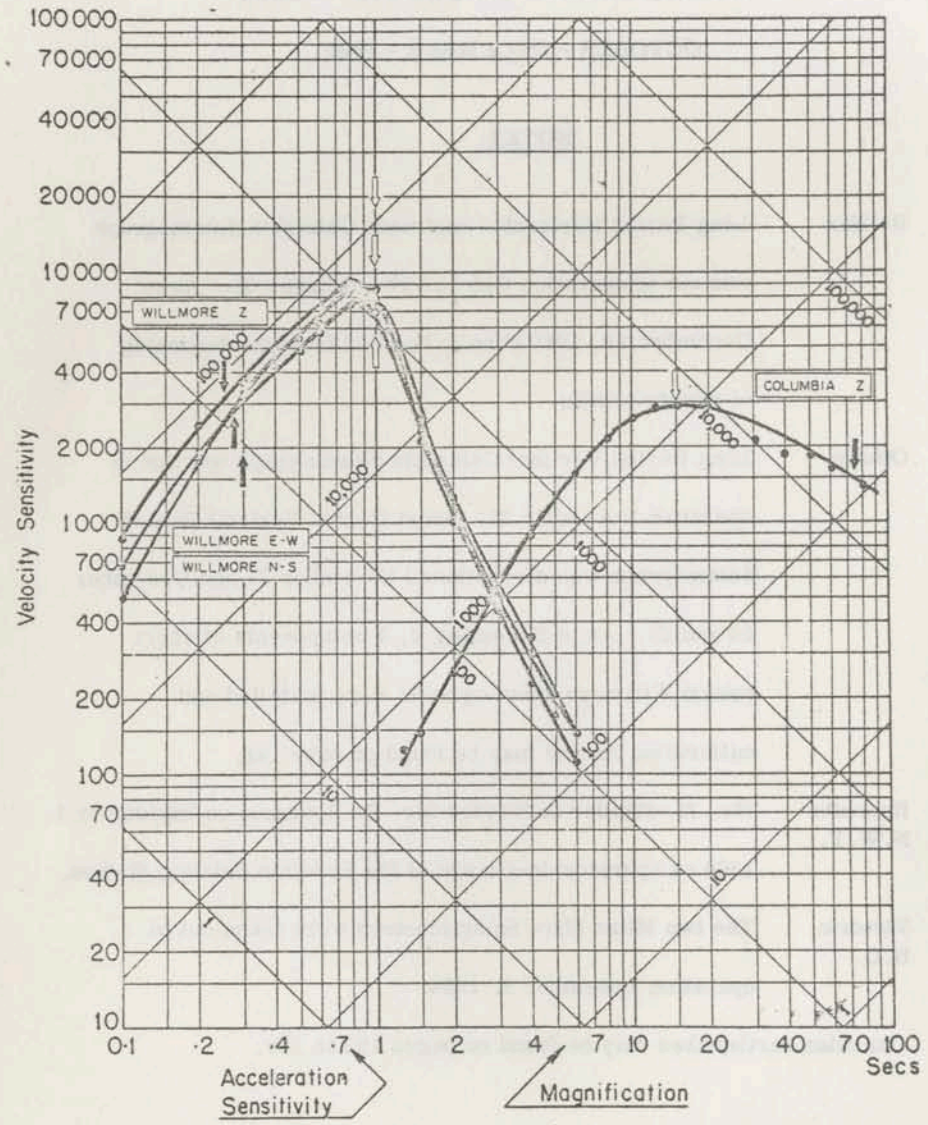
3. Resolute N.W.T. — Mr. M. Strader succeeded Mr. R. Bourgoin on September 1, 1960 as operator-in-charge of the Resolute Seismic Station.

4. Victoria B.C. — The two Milne Shaw Seismometers were taken out of operation December 8, 1960.

5. Canadian earthquakes may be found on pages 193 to 200.

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

SEISMOLOGICAL BULLETIN - 1960

OCTOBER 1
U.S.C.G.S.
23.3N, 94.6E
Burma
H = 03 00 50.2
h = 67 km
Resolute
iP 03 13 07 c

OCTOBER 1
U.S.C.G.S.
34.4N, 26.2E
Near Crete
H = 05 30 38.1
h = 36 km
Halifax
P 05 41 26
Ottawa
eP 05 42 08
Resolute
iP 05 41 07 c ?
Seven Falls
eP 05 41 45
Shawinigan Falls
eP 05 41 53

OCTOBER 1
Resolute
eP 07 02 09
iS? 07 04 59

OCTOBER 1
Victoria
eP 16 08 44

OCTOBER 1
U.S.C.G.S.
52.2N, 172.6W
Fox Islands
H = 16 10 56.9
h = 41 km
Mag 6
Alberni
eP 16 17 06

Halifax
P 16 21 44 c(?)
Ottawa
iP 16 21 00
Resolute
eP 16 18 08 ?
eS 16 24 09 ?
Seven Falls
eP 16 21 09
Shawinigan Falls
eP 16 21 04
Victoria
iP 16 17 15 d,S,W

OCTOBER 1
Resolute
eP 18 51 47

OCTOBER 2
Resolute
eP 04 57 09

OCTOBER 2
Resolute
eP 05 57 54

OCTOBER 2
Resolute
eP 06 32 30

OCTOBER 2
U.S.C.G.S.
18.6N, 94.9E
Burma
H = 18 08 12.4
h = 104 km
Resolute
iP 18 20 50

OCTOBER 3
U.S.C.G.S.
29.8N, 68.2E
West Pakistan
H = 00 49 11.8
h = 36 km
Resolute
eP 01 00 54 ?

OCTOBER 3
U.S.C.G.S.
36.8N, 140.1E
Honshu, Japan
H = 02 33 28.3
h = 60 km
Resolute
eP 02 43 53

OCTOBER 3
U.S.C.G.S.
38.7S, 75.3W
Near coast of
southern Chile
H = 05 10 37.3
h = 43 km
Ottawa
eP 05 23 05
Seven Falls
eP 05 23 14
Shawinigan Falls
eP 05 23 11

OCTOBER 4
Canadian Arctic
H = 02 27 50.3
Mag 1.9
Resolute
P_1 02 28 31
S_1 02 29 02
D = 254 km

DOMINION OBSERVATORIES

OCTOBER 4
Canadian Arctic
H = 04 04 29.7
Mag 1.9
Resolute
P_1 04 05 04.5
S_1 04 05 31
D = 217 km

OCTOBER 5
48°36'N, 123°52'W
Southwestern
Vancouver Island
H = 02 59 47
Mag 2.4
Alberni
iP_1 02 59 59.3
iS_1 03 00 09.5
D = 80 km
Victoria
iP_1 02 59 58.2
iS_1 03 00 08.8
D = 72 km

OCTOBER 5
H = 08 24 58
Mag 1.9
Victoria
eP_1 08 25 14.0
eS_1 08 25 27.1
D = 108 km

OCTOBER 6
U.S.C.G.S.
52.2N, 107.2E
Lake Baikal region
H = 16 19 15.4
h = 46 km
Resolute
eP 16 28 29 d ?
eS? 16 35 56 ?

OCTOBER 6
U.S.C.G.S.
38.3S, 74.9W
Near coast of
southern Chile
H = 16 16 37.6
h = 53 km
Ottawa
eP 16 29 03
Seven Falls
eP 16 29 13
Shawinigan Falls
eP 16 29 10 d

OCTOBER 6
U.S.C.G.S.
58.2N, 31.6W
North Atlantic Ocean
H = 19 55 42.2
h = 63 km
Halifax
iP 20 00 50 c
Ottawa
eP 20 01 44
Resolute
eP 20 01 31 c ?
eS 20 06 16
Seven Falls
eP 20 01 11
Shawinigan Falls
eP 20 01 23

OCTOBER 7
U.S.C.G.S.
58.1N, 31.9W
North Atlantic Ocean
H = 03 15 34.9
h = 71 km
Mag 4 1/2
Resolute
eP 03 21 24
eS? 03 26 11
Seven Falls
eP 03 21 03
Shawinigan Falls
eP 03 21 14

OCTOBER 7
U.S.C.G.S.
7.4S, 130.7E
Banda Sea
H = 15 18 30.8
h = 45 km
Mag 6 1/2
Halifax
P' 15 37 56
Ottawa
eP' 15 37 39
Resolute
iP 15 32 51
S 15 43 24
e 15 48 12
Seven Falls
eP' 15 37 45
Victoria
eP 15 32 42
e 15 36 58

OCTOBER 8
H = 00 37 23
Mag 2.0
Alberni
iP_1 00 37 32.3
iS_1 00 37 39.1
D = 56 km

OCTOBER 8
U.S.C.G.S.
16.7N, 97.9W
Oaxaca Mexico
H = 01 51 51.2
h = 74 km
Mag 4 3/4
Ottawa
eP 01 58 32 c
Resolute
iP 02 01 38
Seven Falls
eP 01 59 03
Shawinigan Falls
iP 01 58 50 ? c

OCTOBER 8
U.S.C.G.S.
40.0N, 129.7E
Sea of Japan
H = 05 53 01.1
h = 608 km
Mag 6 1/2
Ottawa
iP 06 05 10 c
Resolute
iP 06 02 26 c
iS 06 10 02
Seven Falls
eP 06 05 06
Shawinigan Falls
iP 06 05 07 ? c

OCTOBER 8
Canadian Arctic
H = 06 49 20.4
h = 15 km
Mag 3.2
Resolute
P_n 06 50 20
P_1 06 50 31
S_1 06 51 03.5
S_1 06 51 24.5
D = 440 km

OCTOBER 8
H = 10 54 24.7
Mag 2
Alberni
eP_1 10 54 49.4
iS_1 10 55 01.1
Victoria
iP_1 10 54 32.9
iS_1 10 54 49.4

OCTOBER 8
U.S.C.G.S.
7.9N, 92.9E
Nicobar Islands
H = 20 40 06.6
h = 84 km
Resolute
eP 20 53 36

OCTOBER 9
U.S.C.G.S.
40.8N, 141.2E
Near coast ofnorthern
Honshu, Japan
H = 09 00 42.0
h = 155 km
Mag 6 1/4
Halifax
eP 09 13 39.5 c (?)
Ottawa
iP 09 13 20 d
Penticton
eP 09 11 15
Resolute
iP 09 10 29 d ?
iS 09 18 28
Seven Falls
eP 09 13 19

OCTOBER 9
U.S.C.G.S.
15.1S, 174.0W
Samoa Islands region
H = 09 51 19.1
h = 129 km
Penticton
eP 10 03 20
Victoria
eP 10 03 06

OCTOBER 9
Ottawa
eP 10 11 35

OCTOBER 9
Penticton
eP 20 36 44

OCTOBER 10
H = 15 06 38
Mag 2.5
Penticton
eP_1 15 07 04.7
eS_1 15 07 25.0
D = 166 km

OCTOBER 10
U.S.C.G.S.
47.0N, 153.5E
Ryukyu Islands
H = 16 15 58.9
h = 22 km
Penticton
eP 16 24 30
Victoria
eP 16 25 16

OCTOBER 10
H = 23 24 25
Mag 2.5
Alberni
eP_1 23 24 42.2
eS_1 23 24 55.0
D = 105 km

OCTOBER 10
53°N, 133°W
Off southern
Queen Charlotte Islands
H = 23 54 32
Mag 4.5
Alberni
iP_n 23 55 57.2
iS_n 23 56 20.3
D = 640 km

Penticton
eP$_n$ 23 56 43.7
D = 1050 km
Victoria
iP$_n$ 23 56 14.3
eS$_n$ 23 56 41.9
D = 780 km

OCTOBER 11
U.S.C.G.S.
38.1N, 107.6W
Western Colorado
H = 08 05 30.5
h = 49 km
Mag 4 3/4
Alberni
eP 08 09 24
Halifax
eP 08 11 56
Ottawa
eP 08 10 51 c
Penticton
eP 08 08 47
Resolute
eP 08 12 38
Shawinigan Falls
eP 08 11 11

OCTOBER 11
North of Portland
Oregon, U.S.A.
H = 10 41 51
Mag 3.1
Penticton
eP$_n$ 10 42 51.9
eS$_n$ 10 43 42.0
D = 440 km
Victoria
eP$_n$ 10 42 31.8
eS$_n$ 10 43 09.7
D = 275 km

OCTOBER 11
46.0N, 122.2W
Northeast of Portland
Oregon, U.S.A.
H = 11 54 48
Mag 3.5
Alberni
eP$_n$ 11 55 45.8
eS$_n$ 11 56 31.5
D = 418 km
Penticton
eP$_n$ 11 55 45.5
eS$_n$ 11 56 40.2
D = 418 km
Victoria
eP$_n$ 11 55 30.0
eS$_n$ 11 56 04.4
D = 290 km

OCTOBER 11
H = 12 48 15
Mag 3.1
Penticton
iP$_n$ 12 49 12.8
iS$_n$ 12 50 05.3
D = 418 km

OCTOBER 12
48.0N, 123.6W
Southwest of Port Angeles
Washington, U.S.A.
H = 05 17 14
Mag 2.3
Alberni
iP$_1$ 05 17 41.3
iS$_1$ 05 18 05.3
D = 168 km
Victoria
iP$_1$ 05 17 22.7
iS$_1$ 05 17 29.8
D = 58 km

OCTOBER 12
15.1S, 173.2W
Samoa Islands region
H = 09 11 16.4
h = 25 km
Penticton
eP 09 23 26

OCTOBER 13
U.S.C.G.S.
54.8N, 161.2E
Kamchatka
H = 14 52 34.7
h = 35 km
Mag 6 3/4
Alberni
iP 15 00 40
Halifax
eP 15 04 08 c
Ottawa
eP 15 03 38
Penticton
eP 15 01 01
Resolute
eP 15 00 21 c
eS 15 06 33
Seven Falls
eP 15 03 40
Shawinigan Falls
eP 15 03 40 c

OCTOBER 13
U.S.C.G.S.
20.7N, 144.8E
Mariana Islands
region
H = 16 45 56.2
h = 25 km
Resolute
eP 16 57 53 c ?

OCTOBER 13
Resolute
eP 20 26 26

OCTOBER 14
U.S.C.G.S.
10.1N, 125.3E
Near coast of Leyte
Philippine Islands
H = 00 58 05.0
h = 17 km
Resolute
eP 01 11 14

OCTOBER 14
Canadian Arctic
H = 08 11 50.8
Mag 2.5
Resolute
P$_1$ 08 12 00
S$_1$ 08 12 07
D = 57.4 km

OCTOBER 14
U.S.C.G.S.
59.8N, 136.4W
Southeastern Alaska
H = 13 12 07.9
h = 32 km
Alberni
e 13 18 33
Ottawa
eP 13 19 27
Penticton
e 13 18 31
Resolute
iP 13 16 53 d
Seven Falls
eP 13 19 38
Shawinigan Falls
eP 13 19 32
Victoria
eP 13 15 23

OCTOBER 14
U.S.C.G.S.
37.9S, 74.7W
Off coast of Chile
H = 17 48 28.5
h = 25 km
Mag 5 1/4
Halifax
eP 18 00 54
Ottawa
eP 18 00 55
Seven Falls
eP 18 00 55
Shawinigan Falls
eP 18 01 02

OCTOBER 14
Canadian Arctic
H = 20 46 49.8
h = 20 km
Mag 2.7
Resolute
P$_n$ 20 47 21.8
P$_1$ 20 47 24.0
i 20 47 27.2
S$_n$ 20 47 44.5
S$_1$ 20 47 49.4
D = 210 km

OCTOBER 14
U.S.C.G.S.
51.7N, 172.1W
Fox Islands
H = 21 19 11.4
h = 50 km
Mag 6 1/2
Alberni
eP 21 25 21
Halifax
iP 21 29 56 c
Ottawa
iP 21 29 13 d
Penticton
eP 21 25 46
Resolute
iP 21 26 24
PP? 21 27 54
eS 21 32 10

Seven Falls
eP 21 29 22
Shawinigan Falls
eP 21 29 18 d
Victoria
eP 21 25 28

OCTOBER 14
U.S.C.G.S.
55.5N, 35.2W
North Atlantic Ocean
H = 22 55 41.7
h = 40 km
Halifax
eP 23 00 23
Ottawa
eP 23 01 27
Resolute
eP 23 01 46
Shawinigan Falls
eP 23 01 05

OCTOBER 15
U.S.C.G.S.
55.6N, 35.6 W
North Atlantic Ocean
H = 01 54 09.2
h = 37 km
Ottawa
eP 01 59 53
Resolute
eP 02 00 12
Seven Falls
eP 01 59 17
Shawinigan Falls
eP 01 59 31

OCTOBER 15
Canadian Arctic
H = 02 48 47.2
h = 24 km
Mag 1.5
Resolute
P$_n$ 02 49 12.3
P$_1$ 02 49 13.8
S$_n$ 02 49 30.9
S$_1$ 02 49 34
D = 164 km

OCTOBER 15
U.S.C.G.S.
23.1N, 123.4E
Off coast of Formosa
H = 11 30 02.1
h = 60 km
Resolute
eP 11 42 05 c?

OCTOBER 16
U.S.C.G.S.
9.4N, 90.6W
Off coast of Nicaragua
H = 09 34 00.9
h = 25 km
Mag 5
Ottawa
iP 09 41 21 c
Penticton
eP 09 42 51
Resolute
eP 09 44 47
Seven Falls
eP 09 41 49
Shawinigan Falls
eP 09 41 39
Victoria
eP 09 42 41

OCTOBER 16
Alberni
iP 10 17 01
Penticton
eP 10 17 48
Victoria
eP 10 17 13

OCTOBER 16
U.S.C.G.S.
63.0N, 151.7W
Central Alaska
H = 17 53 26.6
h = 100 km
Resolute
eP 17 58 18
Shawinigan Falls
eP 18 01 34

OCTOBER 16
U.S.C.G.S.
52.4N, 153.4E
Kurile Islands
H = 19 20 39.6
h = 324 km
Resolute
iP 19 28 31 d
Shawinigan Falls
eP 19 31 41

OCTOBER 17
U.S.C.G.S.
4.8N, 78.4W
Off coast of Columbia
H = 15 45 36.9
h = 83 km
Mag 4 3/4
Halifax
P 15 53 22
S 15 59 38
Ottawa
iP 15 53 12 d
Penticton
iP 15 55 14 c
Resolute
eP 15 56 44 d ?
eS 16 05 56
Seven Falls
eP 15 53 29 d
Shawinigan Falls
iP 15 53 23 d
Victoria
iP 15 55 25 d,S,E

OCTOBER 17
U.S.C.G.S.
5.1N, 78.1W
Near coast of Columbia
H = 15 56 08.6
h = 25 km
Shawinigan Falls
eP 16 04 00

OCTOBER 17
U.S.C.G.S.
30.7N, 40.4W
Atlantic Ocean
H = 18 05 32.7
h = 65 km
Resolute
eP 18 14 33 d ?
Shawinigan Falls
eP 18 11 43

OCTOBER 17
Resolute
iP 19 05 59

OCTOBER 17
U.S.C.G.S.
31.7N, 40.7W
Atlantic Ocean
H = 19 02 20.9
h = 47 km
Halifax
eP 19 07 16
S 19 11 20
Resolute
eP 19 11 17
Shawinigan Falls
eP 19 08 18

OCTOBER 17
Resolute
eP 20 39 06

OCTOBER 17
U.S.C.G.S.
14.6N 92.8W
Mexico - Guatemala border
H = 22 15 32.0
h = 128 km
Mag 5 3/4
Halifax
S 22 29 07
Ottawa
eP 22 22 08
Penticton
eP 22 23 09
i 22 24 43
Resolute
eP 22 25 30
Seven Falls
eP 22 22 38
Shawinigan Falls
eP 22 22 28 d
Victoria
iP 22 23 29 d

OCTOBER 17
Victoria
iP 22 24 52 d

OCTOBER 17
Resolute
iP 22 27 06 c

OCTOBER 18
U.S.C.G.S.
52.5N, 170.2W
Fox Islands
H = 00 21 47.2
h = 33 km
Mag 4 3/4
Halifax
eP 00 32 24
Ottawa
eP 00 31 41
Shawinigan Falls
eP 00 31 46 d

OCTOBER 18
U.S.C.G.S.
14.5N, 92.6W
Mexico-Guatemala border
H = 06 34 11.0
h = 112 km
Resolute
eP 06 44 12

OCTOBER 19
Canadian Arctic
H = 00 23 03.6
Mag 1.6
Resolute
P_1 00 23 11.5
S_1 00 23 17.5
D = 49.2 km

OCTOBER 19
Resolute
eP 05 16 50

OCTOBER 19
Resolute
iP 06 37 41

OCTOBER 19
Resolute
eP 09 16 19 ?

OCTOBER 19
Resolute
eP 11 38 39 ?

OCTOBER 20
Victoria
eP 06 37 34 d

OCTOBER 20
Resolute
eP ? 08 53 14 ?

OCTOBER 20
U.S.C.G.S.
11.0S, 164.9E
Santa Cruz Islands
H = 11 05 38.3
Mag 6 1/4
Halifax
iP' 11 25 01
Penticton
eP 11 18 51
Seven Falls
iP' 11 24 50 c
Shawinigan Falls
eP' 11 24 48
Victoria
eP 11 18 39

OCTOBER 20
Resolute
eP 12 50 24

OCTOBER 20
Resolute
eP 12 57 08 d ?

OCTOBER 20
U.S.C.G.S.
45.3N, 147.0E
Kurile Islands region
H = 23 40 08.2
h = 25 km
Resolute
iP 23 49 29 d ?

OCTOBER 21
Resolute
eP 00 01 15

OCTOBER 22
U.S.C.G.S.
10.3S, 161.2E
Solomon Islands region
H = 08 22 00.9
h = 93 km
Mag 6 1/4
Halifax
eP' 08 40 59
Ottawa
eP' 08 40 45
Resolute
eP 08 36 18?
PP 08 39 32?
eS 08 46 28?
Seven Falls
eP' 08 40 47
Shawinigan Falls
eP' 08 40 48
Victoria
eP 08 34 45

OCTOBER 22
Canadian Arctic
H = 15 27 36.5
h = 14 km
Mag 4.1
Resolute
P_n 15 29 12.5
i 15 29 34
S_n 15 30 21
S_1 15 30 57
D = 730 km

OCTOBER 23
U.S.C.G.S.
31.2N, 40.7W
Atlantic Ocean
H = 06 32 24.9
h = 61 km
Halifax
eP 06 37 20 d
iS 06 41 26
Penticton
eP 06 42 27
Resolute
eP 06 41 22
Seven Falls
eP 06 38 14 d
Shawinigan Falls
eP 06 38 23

OCTOBER 23
Resolute
eP 15 52 20

OCTOBER 23
Resolute
eP 21 58 51

OCTOBER 24
U.S.C.G.S.
15.0N, 167.4E
New Hebrides Islands region
H = 05 12 04.4
Penticton
eP 05 24 56
e 05 41 37 ?

OCTOBER 26
U.S.C.G.S.
52.4N, 160.1E
Near coast of Kamchatka
H = 01 48 04.1
h = 53 km
Resolute
eP? 01 56 13?

OCTOBER 26
Resolute
eP? 12 04 20

OCTOBER 26
Penticton
eP 17 45 08

OCTOBER 27
Penticton
eP 05 33 26

OCTOBER 27
U.S.C.G.S.
1.4N, 90.9W
Galapagos Islands region
H = 05 25 03.6
h = 46 km
Mag 4 3/4
Ottawa
eP 05 33 24 d

OCTOBER 27
H = 07 34 59.5
Mag 1.7
Penticton
iP_1 07 35 13.7
iS_1 07 35 34.4
D = 88 km

OCTOBER 27
U.S.C.G.S.
16.3N, 121.3E
Luzon Philippine Islands
H = 10 51 35.8
h = 54 km
Resolute
eP? 11 04 14?

OCTOBER 27
U.S.C.G.S.
71.6N, 8.3W
Jan Mayen Island region
H = 12 45 40.1
h = 70 km
Resolute
eP 12 50 45

OCTOBER 27
Resolute
eP? 14 43 05?

OCTOBER 27
U.S.C.G.S.
71.3N, 8.6W
Jan Mayen Island region
H = 15 39 20.3
h = 43 km
Resolute
eP 15 44 30

OCTOBER 27
U.S.C.G.S.
15.2S, 175.0W
Samoa Islands region
H = 22 27 55.1
h = 253 km
Banff
iP 22 39 59 d
Penticton
iP 22 39 43
Victoria
iP 22 39 31 d

OCTOBER 28
U.S.C.G.S.
71.3N, 8.6W
Jan Mayen Island
H = 04 18 41.9
h = 48 km
Mag 5 1/2
Banff
eP 04 27 14
Halifax
eP 04 25 54
Ottawa
eP 04 26 21
Penticton
eP 04 27 36
Resolute
eP 04 23 48
eS 04 28 01
Seven Falls
eP 04 25 54
Shawinigan Falls
eP 04 26 04
Victoria
eP 04 27 48

OCTOBER 28
U.S.C.G.S.
71.5N, 7.7W
Jan Mayen Island region
H = 05 27 16.1
h = 77 km
Resolute
eP 05 32 23

OCTOBER 28
U.S.C.G.S.
71.3N, 8.4W
Jan Mayen Island
H = 07 46 38.5
h = 61 km
Ottawa
eP 07 54 21
Penticton
eP 07 55 31
Resolute
eP 07 51 43
Seven Falls
eP 07 53 44
Shawinigan Falls
eP 07 53 54

OCTOBER 28
U.S.C.G.S.
52.0N, 157.4E
Kamchatka
H = 13 18 14.3
h = 38 km
Alberni
eP 13 26 42
Banff
iP 13 27 08 c
Halifax
eP 13 30 03 d
Ottawa
eP 13 29 36 d
Penticton
eP 13 27 01
Resolute
iP 13 26 24
eS 13 32 54
S_cS? 13 36 08
Seven Falls
eP 13 29 37 d
Shawinigan Falls
eP 13 29 36 d
Victoria
iP 13 26 49 c

OCTOBER 28
H = 19 55 23.2
Mag 2.2
Alberni
iP_1 19 55 32.9
iS_1 19 55 40.3
D = 60 km

OCTOBER 28
U.S.C.G.S.
34.4N, 141.1E
Near coast of Honshu Japan
H = 22 29 26.6
h = 96 km
Penticton
eP 22 40 34

OCTOBER 29
H = 01 47 33.6
Mag 2.7
Penticton
iP_1 01 47 57.3
iS_1 01 48 15.6
D = 150 km

DOMINION OBSERVATORIES

OCTOBER 29
U.S.C.G.S.
15.4N, 46.4W
North Atlantic Ocean
H = 04 17 02.1
h = 38 km
Halifax
eP 04 23 34
Ottawa
eP 04 24 26
Penticton
eP 04 27 57
Resolute
eP? 04 27 41 ?
Seven Falls
eP 04 24 17
Shawinigan Falls
eP 04 24 21

OCTOBER 29
U.S.C.G.S.
15.8S, 172.9W
Samoa Islands region
H = 09 37 41.6
h = 99 km
Mag 5 1/2
Penticton
eP 09 49 44
Victoria
eP 09 49 32

OCTOBER 29
U.S.C.G.S.
47.4N, 27.6W
North Atlantic Ocean
H = 11 54 17.4
h = 25 km
Halifax
eP 11 59 42
Resolute
eP 12 01 45

OCTOBER 29
Halifax
eP 13 31 34
Resolute
eP 13 33 38

OCTOBER 29
U.S.C.G.S.
12.3N, 121.0E
Philippine Islands
H = 17 11 59.3
h = 65 km
Resolute
eP? 17 24 57

OCTOBER 29
U.S.C.G.S.
12.0N, 140.9E
Mariana Islands region
H = 21 44 37.2
h = 25 km
Resolute
eP 21 57 22

OCTOBER 29
Penticton
eP 23 26 09

OCTOBER 29
H = 23 40 56.9
Mag 2.2
Alberni
iP_1 23 41 05.4
iS_1 23 41 11.9
D = 53 km

OCTOBER 29
U.S.C.G.S.
49.8N, 156.0E
Kamchatka
H = 23 42 16.4
h = 25 km
Resolute
eP 23 50 47

OCTOBER 30
U.S.C.G.S.
47.5N, 28.7W
North Atlantic Ocean
H = 08 32 39.1
h = 25 km
Resolute
eP 08 40 04

OCTOBER 30
Resolute
eP 08 41 32

OCTOBER 30
Penticton
eP 10 41 59

OCTOBER 30
U.S.C.G.S.
23.3S, 70.3W
Near coast of Chile
H = 12 14 36.1
h = 76 km
Mag 6 3/4
Alberni
eP 12 27 22
Banff
eP 12 27 03
Halifax
iP 12 25 32 c?
Ottawa
eP 12 25 35
Penticton
eP 12 27 06
Seven Falls
eP 12 25 46
Shawinigan Falls
eP 12 25 42 d
Victoria
eP 12 27 14 c

SEISMOLOGICAL BULLETIN - 1960

OCTOBER 30
U.S.C.G.S.
51.2N, 157.0E
Near south coast
of Kamchatka
H = 16 16 22.9
h = 42 km
Penticton
eP 16 25 19
Resolute
eP? 16 24 42

OCTOBER 30
Penticton
eP 20 04 04

OCTOBER 30
U.S.C.G.S.
22.8S, 68.0W
Chile-Bolivia border
H = 21 32 47.7
h = 60 km
Mag 6 3/4
Alberni
eP 21 45 33
Banff
iP 21 45 16 d
i 21 45 43 d
Halifax
iP 21 43 41 d
Ottawa
iP 21 43 17 d
Penticton
eP 21 45 21 d
i 21 45 47
Resolute
eP 21 46 25
Seven Falls
iP 21 43 56 d
Shawinigan Falls
eP 21 43 54 d
Victoria
iP 21 45 27 d

OCTOBER 30
Resolute
eP 22 02 51

OCTOBER 31
U.S.C.G.S.
30.3N, 113.5W
Gulf of California
H = 07 03 43.7
h = 25 km
Resolute
eP? 07 11 42
e 07 13 49

OCTOBER 31
Penticton
eP 07 11 17

OCTOBER 31
Banff
eP 07 17 21
Penticton
eP 07 17 18

OCTOBER 2
U.S.C.G.S.
25.3N, 141.3E
South of Bonin Islands
H = 20 50 29.9
h = 25 km
Resolute
eP 21 02 05 c

OCTOBER 31
U.S.C.G.S.
54.7N, 161.8E
Near coast of
Kamchatka
H = 23 44 18.9
h = 60 km
Resolute
eP 23 52 03
e 23 54 08

NOVEMBER 1
U.S.C.G.S.
11.1S, 12.7W
Ascension Island
region
H = 06 15 29.4
h = 35 km
Mag 5
Halifax
P 06 26 56
Ottawa
eP 06 27 37
Seven Falls
eP 06 27 26
Shawinigan Falls
eP 06 27 30

NOVEMBER 1
48°42'N, 123°12'W
Gulf Islands,
British Columbia
H = 06 34 02
Mag 1.7
Alberni
eP_1 06 34 23.7
eS_1 06 34 40.0
D = 136 km
Victoria
iP_1 06 34 05.6
iS_1 06 34 08.4
D = 23 km

NOVEMBER 1
47.1N, 126.4W
Off coast of
Washington, U.S.A.
H = 08 37 23
Mag 3.0
Penticton
eP_n 08 38 37.7
eS_n 08 38 43.7
D = 561 km
Victoria
eP_n 08 38 05.2
eS_n 08 38 41.1
D = 294 km

DOMINION OBSERVATORIES

NOVEMBER 1
Victoria
eP 08 53 06

NOVEMBER 1
U.S.C.G.S.
38.4S, 74.4W
Near coast of Chile
H = 08 46 01.9
h = 97 km
Mag 6 3/4
Banff
eP 08 59 21
Halifax
iP 08 58 23.5 d
iS 09 08 42
Ottawa
iP 08 58 25 d
Resolute
eP' 09 04 35
Seven Falls
iP 08 58 34 d
Shawinigan Falls
iP 08 58 31 d
Penticton
eP 08 59 44
e 09 03 16
Victoria
eP 08 59 27

NOVEMBER 1
U.S.C.G.S.
5.5S, 102.4E
Near coast of Sumatra
H = 10 23 57.2
h = 43 km
Resolute
eP' 10 42 33

NOVEMBER 1
H = 16 12 41
Mag 1.0
Penticton
iP_1 16 12 45.4
iS_1 16 12 49.0
D = 30 km

NOVEMBER 1
U.S.C.G.S.
50.1N, 153.9E
Near coast of Kamchatka
H = 19 06 22.7
h = 162 km
Halifax
P 19 18 20
Resolute
eP 19 14 46 d

NOVEMBER 1
U.S.C.G.S.
45.1N, 111.2W
Hebgen Lake Montana
H = 22 26 52.7
h = 38 km
Banff
e 22 30 20
Penticton
eP 22 28 35
iL 22 30 00
Resolute
e 22 42 43 ?
Victoria
e 22 31 29

NOVEMBER 2
H = 00 01 40
Mag 0.6
Victoria
eP_1 00 01 43.1
eS_1 00 01 45.5
D = 20 km

NOVEMBER 2
U.S.C.G.S.
57.6N, 153.8W
Kodiak Island Alaska
H = 15 29 48.8
h = 96 km
Banff
eP 15 34 46
Penticton
eP 15 34 36
Resolute
eP 15 35 30
Victoria
eP 15 34 14

NOVEMBER 2
U.S.C.G.S.
23.1N, 93.8E
Burma - east Pakistan border
H = 16 31 53.5
h = 126 km
Resolute
iP 16 44 05 d ?

NOVEMBER 2
U.S.C.G.S.
10.9S, 164.9E
Santa Cruz Islands
H = 17 14 49.3
h = 25 km
Alberni
eP 17 27 29.4
Banff
eP 17 27 58 d
Halifax
eP' 17 33 52 d
Ottawa
iP' 17 33 37 d
Resolute
eP 17 28 50
eS 17 39 29 ?
Seven Falls
eP' 17 33 42 d
Shawinigan Falls
eP' 17 33 40

SEISMOLOGICAL BULLETIN - 1960

Penticton
eP 17 27 44 c
Victoria
eP 17 27 33 d,N,E

NOVEMBER 2
U.S.C.G.S.
44.8S, 80.2E
South Indian Ocean
H = 18 09 48.8
h = 23 km
Resolute
eP' 18 29 35
i 18 29 40

NOVEMBER 2
Victoria
eP 20 19 11 c

NOVEMBER 2
48°28'N, 123°52'W
Southern Vancouver Island
H = 22 25 29
Mag 2.0
Alberni
eP_1 22 25 47.6
eS_1 22 26 00.5
D = 113 km
Victoria
iP_1 22 25 34.7
iS_1 22 25 38.6
D = 32 km

NOVEMBER 3
48°00'N, 74°52'W
About 15 miles west of Parent Quebec,
Felt at Parent
H = 04 11 46.9
Mag 2.7
Montreal
P_1 04 12 34.1
S_1 04 13 10.0
D = 294 km

Ottawa
i 04 12 46.7
S_1 04 13 11
D = 297.5 km
Seven Falls
S_1 04 13 17.5
D = 318.8 km
Shawinigan Falls
S_1 04 12 51.7
D = 229 km

NOVEMBER 3
Alberni
iP 16 01 23.9
Penticton
eP 16 02 12
Victoria
eP 16 01 38

NOVEMBER 4
49.1°N, 120.6°W
Near Copper Mountain British Columbia
H = 00 29 14
Mag 1.5
Penticton
iP_1 00 29 27.0
iS_1 00 29 40.2
D = 82 km
Victoria
eP 00 29 46.8
D = 216 km

NOVEMBER 4
Victoria
iP 01 37 27 c

NOVEMBER 4
Canadian Arctic
H = 09 54 35.1
Mag 1.7
Resolute
P_1 09 54 43
S_1 09 54 49
D = 49.2 km

NOVEMBER 5
49°41'N, 124°30'W
Texada Island
H = 02 08 21
Mag 2
Alberni
eP_1 02 08 29.4
eS_1 02 08 35.7
D = 52 km
Victoria
eP 02 08 45.7
D = 154 km

NOVEMBER 5
Victoria
eP 02 09 05

NOVEMBER 5
H = 03 07 31
Mag 1.8
Penticton
eP_1 03 07 53.1
eS_1 03 08 09.6
D = 135 km

NOVEMBER 5
U.S.C.G.S.
39.2N, 20.5E
Near coast of Greece
H = 20 20 53.7
h = 49 km
Mag 5
Halifax
iP 20 31 02 d
Ottawa
eP 20 31 47
Resolute
eP 20 30 50
Seven Falls
eP 20 31 21
Shawinigan Falls
eP 20 31 32 c
Penticton
eP 20 33 28
Victoria
eP 20 33 37

NOVEMBER 6
U.S.C.G.S.
50.0N, 159.8E
Near east coast of Kamchatka
H = 04 38 16.7
h = 32 km
Mag 6
Alberni
eP 04 46 35.6
Banff
eP 04 47 05
Halifax
iP 04 50 02.5 c
Ottawa
iP 04 49 34 c
Penticton
eP 04 46 56 c
Resolute
iP 04 46 21 c
PP 04 48 06 ?
eS 04 52 44 ?
Seven Falls
eP 04 49 36 c
Shawinigan Falls
eP 04 49 35 c

NOVEMBER 6
U.S.C.G.S.
31.0S, 177.7W
Kermadec Islands region
H = 06 15 05.7
h = 184 km
Mag 5 3/4
Penticton
eP 06 28 13
eP' 06 33 33 d ?

NOVEMBER 6
U.S.C.G.S.
18.6N, 119.9E
Philippine Islands
H = 06 40 12.3
h = 98 km
Resolute
eP? 06 52 57 ?

NOVEMBER 6
Penticton
eP 09 01 29

NOVEMBER 6
U.S.C.G.S.
52.7N, 168.0W
Fox Islands
H = 22 10 06.4
h = 42 km
Mag 5
Alberni
eP 22 15 54.8
Banff
eP 22 16 30
Halifax
P 22 20 34
Ottawa
iP 22 19 50 c
Penticton
eP 22 16 17
Resolute
eP 22 17 03 c ?
eS 22 22 39
Seven Falls
eP 22 19 59 c
Shawinigan Falls
eP 22 19 55 c
Victoria
eP 22 17 00

NOVEMBER 7
H = 00 57 08
Mag 1.7
Penticton
eP_1 00 57 30.6
eS_1 00 57 47.6
D = 140 km

NOVEMBER 7
U.S.C.G.S.
32.2N, 131.5E
Kyushu Japan
H = 13 23 05.1
h = 25 km
Banff
eP 13 35 05
Penticton
eP 13 34 59
Resolute
eP 13 34 13
Victoria
eP 13 34 51 d

NOVEMBER 8
U.S.C.G.S.
29.8S, 176.9W
Kermadec Islands region
H = 02 43 38.1
h = 25 km
Resolute
eP? 02 55 51

NOVEMBER 8
U.S.C.G.S.
27.8N, 44.3W
North Atlantic Ocean
H = 04 28 11.4
h = 25 km
Resolute
eP? 04 37 35

NOVEMBER 8
U.S.C.G.S.
45.2N, 149.8E
Kurile Islands
H = 05 22 09.4
h = 25 km
Alberni
eP 05 31 44
Banff
eP 05 32 13
Penticton
eP 05 32 04
Resolute
eP 05 31 28 c
Victoria
eP 05 31 53

NOVEMBER 8
U.S.C.G.S.
45.2N, 149.7E
Kurile Islands
H = 05 27 21.7
h = 25 km
Banff
eP 05 37 25
Penticton
eP 05 37 16
Resolute
iP 05 36 41 c ?
Victoria
eP 05 37 06

NOVEMBER 8
H = 11 00 15
Mag 0.7
Banff
iP_1 11 00 17.8
iS_1 11 00 20.2
D = 18 km

NOVEMBER 8
Penticton
eP 11 05 54.3

NOVEMBER 8
U.S.C.G.S.
44.9°N, 125.2°W
Near coast of Oregon, U.S.A.
H = 11 36 27.2
h = 44 km
Mag 4.9
Alberni
iP 11 37 29.5
iS 11 38 14.2
Banff
eP 11 38 38.4
Halifax
P 11 44 24.5
Ottawa
iP 11 43 15 d
Penticton
eP 11 37 51.5 c
eS 11 38 47
Resolute
eP 11 42 58
Seven Falls
iP 11 43 38 d
Shawinigan Falls
eP 11 43 28
Victoria
iP 11 37 22.7

NOVEMBER 8
U.S.C.G.S.
28.2N, 139.5E
Bonin Islands region
H = 12 33 58.0
h = 23 km
Penticton
eP 12 45 42
Resolute
eP? 12 45 13
Victoria
iP 12 45 33

NOVEMBER 8
U.S.C.G.S.
56.0N, 158.8W
Alaska Peninsula
H = 13 36 12.9
h = 29 km
Penticton
eP 13 41 31
Resolute
eP 13 42 24

NOVEMBER 8
Resolute
eP 16 52 26

NOVEMBER 8
Resolute
eP 23 09 48

NOVEMBER 8
Alberni
iP 23 18 45.7
Penticton
iP 23 19 08.7
Victoria
iP 23 18 38.9

NOVEMBER 9
H = 00 41 44
Mag 1.9
Penticton
iP_1 00 42 07.5
iS_1 00 42 25.0
D = 144 km

NOVEMBER 9
Resolute
eP? 01 17 39

DOMINION OBSERVATORIES

NOVEMBER 9
U.S.C.G.S.
21.5S, 67.5W
Near Chile - Bolivia border
H = 01 17 36.8
h = 131 km
Banff
eP 01 29 54
Halifax
P 01 28 16
Ottawa
eP 01 28 21
Penticton
eP 01 29 59
Seven Falls
iP 01 28 32 c
Shawinigan Falls
eP 01 28 28
Victoria
iP 01 30 05 d

NOVEMBER 9
U.S.C.G.S.
60.7S, 24.8W
Sandwich Islands
H = 03 17 58.5
h = 37 km
Mag 6 1/4
Banff
eP' 03 37 09
Penticton
eP' 03 37 51
Resolute
eP' 03 37 25
PP 03 40 48
eS 03 47 30
Victoria
eP' 03 37 02

NOVEMBER 9
Resolute
eP? 04 31 36

NOVEMBER 9
U.S.C.G.S.
32.7N, 103.4E
China
H = 10 43 43.1
h = 47 km
Mag 6 1/4
Alberni
eP 10 56 32
Banff
eP 10 56 40
Penticton
eP 10 56 40
Resolute
eP 10 55 05
eS 11 04 28
Victoria
eP 10 56 37

NOVEMBER 9
Resolute
eP 12 40 32

NOVEMBER 9
U.S.C.G.S.
23.2S, 70.6W
Near coast of Chile
H = 20 06 16.2
h = 52 km
Mag 5 1/2
Banff
eP 20 18 34
Halifax
iP 20 17 15 c
Ottawa
eP 20 17 18 c
Penticton
eP 20 18 49
Resolute
eP 20 20 ??
eS? 20 31 23?
SS 20 38 12?
Seven Falls
eP 20 17 28
Shawinigan Falls
eP 20 17 25

NOVEMBER 10
U.S.C.G.S.
26.2N, 87.5W
Gulf of Mexico
H = 01 33 43.8
h = 21 km
Ottawa
eP 01 38 35 d
Resolute
iP 01 42 29

NOVEMBER 10
U.S.C.G.S.
36.6N, 71.1E
Hindu Kush region
H = 01 54 46.8
h = 64 km
Penticton
eP 02 08 01

NOVEMBER 10
U.S.C.G.S.
30.2N, 40.4W
North Atlantic Ocean
H = 05 31 30.1
h = 28 km
Mag 5
Halifax
eP 05 36 36
Resolute
eP 05 40 36
Seven Falls
eP 05 37 28

NOVEMBER 10
U.S.C.G.S.
2.6S, 139.4E
Near coast of New Guinea
H = 14 44 47.3
h = 25 km
Mag 6 3/4
Penticton
eP 14 58 29
e 15 14 56
Resolute
eP 14 58 39
e 15 14 46
Seven Falls
eP' 15 03 55 d
Shawinigan Falls
iP' 15 03 54 d

NOVEMBER 10
H = 19 38 55
Mag 0.9
Penticton
iP_1 19 39 00.7
iS_1 19 39 04.6
D = 32 km

NOVEMBER 10
Victoria
iP 20 43 29 c

NOVEMBER 10
Canadian Arctic
H = 22 32 24
Mag 3.3
Resolute
P_n 22 33 38
i 22 33 52
i 22 34 33
S_1 22 34 57
D = 550 km

NOVEMBER 11
U.S.C.G.S.
39.5N, 21.1E
Greece - Albania region
H = 05 31 34.1
h = 39 km
Halifax
iP 05 41 42 c
Ottawa
eP 05 42 27
Penticton
eP 05 44 10
Resolute
eP 05 41 29
Seven Falls
eP 05 41 59 c
Shawinigan Falls
eP 05 42 15

NOVEMBER 11
Resolute
eP 10 52 01

NOVEMBER 11
U.S.C.G.S.
54.8N, 161.7E
Kamchatka
H = 13 45 14.3
h = 28 km
Resolute
eP 13 53 02

NOVEMBER 11
Victoria
eP 19 30 11

NOVEMBER 12
U.S.C.G.S.
47.1N, 148.8E
Kurile Islands
H = 18 37 14.5
h = 174 km
Resolute
iP 18 46 07

NOVEMBER 13
U.S.C.G.S.
1.4N, 127.2E
Molucca Passage
H = 06 37 05.7
h = 59 km
Halifax
P' 06 56 21
Ottawa
eP' 06 56 11
Penticton
eP 06 51 04
Resolute
eP 06 50 47
Seven Falls
eP' 06 56 10 c
Shawinigan Falls
eP' 06 56 11

NOVEMBER 13
U.S.C.G.S.
51.1N, 168.8W
Fox Islands
H = 09 20 36.8
h = 65 km
Mag 7
Alberni
eP 09 26 27
Banff
eP 09 27 07
Halifax
eP 09 31 11 d
Ottawa
iP 09 30 26 d
Penticton
eP 09 26 53 d
e 09 29 53 d
Resolute
eP 09 27 44 d
eS 09 33 28
Seven Falls
eP 09 30 36 d
Shawinigan Falls
iP 09 30 31 d
Victoria
eP 09 26 35 d,W
e 09 29 42
iS 09 31 29 W

NOVEMBER 13
Resolute
eP 10 03 12

NOVEMBER 13
Resolute
eP 10 40 11

NOVEMBER 13
Resolute
eP 12 32 47

DOMINION OBSERVATORIES

NOVEMBER 13
U.S.C.G.S.
51.1N, 168.6W
Fox Islands
H = 13 24 25.6
h = 25 km
Resolute
eP 13 31 39

NOVEMBER 13
U.S.C.G.S.
51.6N, 168.1W
Fox Islands
H = 13 28 11.5
h = 50 km
Resolute
eP 13 35 18

NOVEMBER 13
U.S.C.G.S.
51.3N, 168.6W
Fox Islands
H = 13 52 28.9
h = 46 km
Resolute
eP 13 59 39

NOVEMBER 13
U.S.C.G.S.
51.9N, 167.8W
Fox Islands
H = 14 29 21.1
h = 46 km
Resolute
eP 14 36 25

NOVEMBER 13
U.S.C.G.S.
51.7N, 167.9W
Fox Islands
H = 15 28 02.7
h = 75 km
Resolute
eP 15 35 04

NOVEMBER 13
U.S.C.G.S.
51.8N, 167.2W
Fox Islands
H = 17 19 24.6
h = 78 km
Resolute
eP 17 26 23

NOVEMBER 13
U.S.C.G.S.
39.5N, 30.4W
Azores
H = 20 45 09.1
h = 25 km
Halifax
P 20 50 39
Resolute
eP 20 53 32

NOVEMBER 14
U.S.C.G.S.
53.5S, 140.7E
Antarctic Ocean
H = 02 08 05.5
h = 21 km
Resolute
eP' 02 27 53

NOVEMBER 14
Penticton
eP 03 53 52
Resolute
eP 03 54 17

NOVEMBER 14
U.S.C.G.S.
53.5S, 140.3E
Antarctic Ocean
H = 04 17 12.7
h = 100 km
Penticton
e 04 57 36
Resolute
eP' 04 36 55
e 04 57 49

NOVEMBER 14
H = 08 03 07
Mag 2.5
Penticton
iP_1 08 03 37.1
iS_1 08 04 00.6
D = 192 km

NOVEMBER 14
H = 10 25 04
Mag 1.9
Penticton
iP_1 10 25 27.8
iS_1 10 25 51.8
D = 150 km

NOVEMBER 14
Resolute
eP 14 43 38 ?

NOVEMBER 14
U.S.C.G.S.
24.3N, 96.2E
Burma
H = 15 55 57.2
h = 58 km
Resolute
eP 16 08 09

NOVEMBER 14
U.S.C.G.S.
14.5N, 92.8W
Near coast of
Chiapas Mexico
H = 19 59 31.8
h = 100 km
Mag 5
Banff
eP 20 07 09
Ottawa
iP 20 06 09 d
Penticton
eP 20 07 10
Resolute
iP 20 09 33

Seven Falls
eP 20 06 37
Shawinigan Falls
eP 20 06 27

NOVEMBER 15
Resolute
eP? 04 57 19

NOVEMBER 15
U.S.C.G.S.
62.5S, 161.7W
Antarctic Ocean
southeast of
New Zealand
H = 06 23 27.5
h = 46 km
Mag 5 1/2
Resolute
eP' 06 42 55

NOVEMBER 15
U.S.C.G.S.
23.2N, 94.3E
Burma - India
border
H = 09 05 59.1
h = 103 km
Resolute
eP 09 18 13

NOVEMBER 15
H = 20 28 25
Mag 2.0
Penticton
eP_1 20 28 59.4
eS_1 20 29 27.4
D = 229 km

NOVEMBER 15
H = 22 32 41
Mag 1.8
Penticton
eP_1 22 33 02.6
eS_1 22 33 23.8
D = 132 km

NOVEMBER 15
H = 23 25 07
Mag 1.7
Penticton
eP_1 23 25 30.9
eS_1 23 25 49.4
D = 152 km

NOVEMBER 15
Resolute
eP? 23 39 27

NOVEMBER 16
Canadian Arctic
H = 08 48 58.1
Mag 1.7
Resolute
P_1 08 49 06
S_1 08 49 12
D = 49.2 km

NOVEMBER 16
U.S.C.G.S.
10.4N, 74.2W
Near coast of
Columbia
H = 15 38 26.5
h = 83 km
Penticton
eP 15 47 47
Resolute
eP 15 49 02

NOVEMBER 16
Penticton
eP 20 57 32

NOVEMBER 16
U.S.C.G.S.
38.0N, 89.5E
Sinkiang Province
China
H = 22 59 47.6
h = 24 km
Penticton
eP 23 12 46 c
Resolute
eP 23 10 44
Shawinigan Falls
eP 23 13 09
Victoria
eP 23 12 45

NOVEMBER 16
H = 23 55 53
Mag 1.7
Penticton
eP_1 23 56 21.1
eS_1 23 56 42.4
D = 174 km

NOVEMBER 17
49.0°N, 121.5°W
South of Hope,
British Columbia
H = 00 48 46
Mag 1.9
Penticton
iP_1 00 49 09.2
iS_1 00 49 26.9
D = 145 km
Victoria
eP_1 00 49 11.1
D = 156 km

NOVEMBER 17
U.S.C.G.S.
38.5S, 73.6W
Near coast of Chile
H = 01 28 39.6
h = 25 km
Shawinigan Falls
eP 01 41 13

NOVEMBER 17
Penticton
iP 09 00 20 c

NOVEMBER 17
H = 12 41 20
Mag 1.4
Penticton
eP_1 12 41 38.9
eS_1 12 41 53.5
D = 118 km

NOVEMBER 17
U.S.C.G.S.
52.3N, 170.3W
Fox Islands
H = 19 46 46.2
h = 16 km
Halifax
eP 19 57 26 d
Ottawa
eP 19 56 42
Penticton
eP 19 53 12
Resolute
eP 19 53 54
Shawinigan Falls
eP 19 56 47

NOVEMBER 17
Resolute
eP 19 59 45

NOVEMBER 18
U.S.C.G.S.
35.0N, 28.6E
East of Crete
H = 06 03 37.5
h = 43 km
Resolute
eP 06 14 11
Shawinigan Falls
eP 06 15 02

NOVEMBER 18
Resolute
eP 07 02 59

NOVEMBER 18
Resolute
eP 09 43 16

NOVEMBER 18
U.S.C.G.S.
22.5S, 69.4W
Northern Chile
H = 12 42 46.9
h = 163 km
Penticton
eP 12 55 04

NOVEMBER 18
Penticton
iP 16 22 36 c

NOVEMBER 18
Ottawa
eP 18 57 30
Seven Falls
eP 18 57 58
Shawinigan Falls
eP 18 57 48

NOVEMBER 19
Penticton
eP 00 13 39.9

NOVEMBER 19
H = 00 45 30
Mag 1.9
Penticton
iP_1 00 45 51.4
iS_1 00 46 08.6
D = 140 km

NOVEMBER 19
H = 06 38 30
Mag 2.1
Alberni
iP_1 06 38 42.1
iS_1 06 38 51.4
D = 76 km

NOVEMBER 19
Resolute
eP 08 15 21

NOVEMBER 19
U.S.C.G.S.
8.6N, 137.6E
Caroline Islands region
H = 12 16 44.5
h = 27 km
Resolute
eP 12 29 49

NOVEMBER 19
H = 15 00 56
Mag 1.3
Penticton
eP_1 15 01 16.9
eS_1 15 01 32.9
D = 131 km

NOVEMBER 19
Resolute
eP 19 26 03?

NOVEMBER 19
Resolute
eP 19 29 53 ?

NOVEMBER 19
H = 19 52 02
Mag 2.5
Penticton
eP_1 19 52 42.5
eS_1 19 53 16.3
D = 276 km

NOVEMBER 20
H = 00 23 16
Mag 2.0
Penticton
iP_1 00 23 43.1
iS_1 00 24 03.6
D = 168 km

NOVEMBER 20
U.S.C.G.S.
26.8N, 128.2E
Ryuku Islands
H = 03 52 49.0
h = 25 km
Resolute
eP 04 04 32

NOVEMBER 20
Penticton
eP 04 41 34

NOVEMBER 20
Penticton
eP 04 45 09
Resolute
eP 04 45 57 ?

NOVEMBER 20
U.S.C.G.S.
8.3S, 77.6W
Northern Peru
H = 10 49 13.4
h = 55 km
Penticton
eP 11 00 11

NOVEMBER 20
Resolute
eP 20 42 02

NOVEMBER 20
U.S.C.G.S.
6.8S, 80.7W
Near coast of
Peru
H = 22 01 59.9
h = 93 km
Mag 6 1/2
Banff
eP 22 12 38
Halifax
eP 22 11 15
e 22 11 26
i 22 11 38
iS 22 18 50
Ottawa
eP 22 11 03
Penticton
eP 22 12 34
Resolute
eP 22 14 14
eS 22 24 23
Seven Falls
eP 22 11 23
Shawinigan Falls
eP 22 11 19
Victoria
eP 22 12 46

NOVEMBER 21
H = 00 55 05
Mag 1.8
Penticton
eP_1 00 55 27.7
eS_1 00 55 45.1
D = 142 km

NOVEMBER 21
U.S.C.G.S.
3.4S, 152.3E
New Ireland Region
H = 04 29 04.7
h = 371 km
Banff
iP 04 41 46
Resolute
eP 04 42 09
e 04 46 36

NOVEMBER 21
Penticton
eP 12 51 43.0

NOVEMBER 21
U.S.C.G.S.
54.8N, 159.7E
Kamchatka
H = 18 44 04.9
h = 64 km
Penticton
eP 18 52 33
Resolute
eP 18 51 52

NOVEMBER 22
U.S.C.G.S.
7.0S, 80.8W
Near coast of Peru
H = 02 32 15.2
h = 19 km
Penticton
eP 02 43 03
Resolute
eP 02 44 36

NOVEMBER 22
U.S.C.G.S.
8.2N, 38.4W
Atlantic Ocean
H = 03 03 02.7
Penticton
eP 03 15 04
Resolute
eP 03 14 37
Shawinigan Falls
eP 03 11 45

DOMINION OBSERVATORIES

NOVEMBER 22
U.S.C.G.S.
19.2S, 173.1W
Tonga Islands region
H = 03 31 54.3
h = 25 km
Penticton
eP 03 44 23

NOVEMBER 22
U.S.C.G.S.
35.9S, 52.3E
Indian Ocean
H = 06 21 45.0
h = 21 km
Mag 6 3/4
Banff
eP_1' 06 41 50
Ottawa
eP' 06 41 10 c
Penticton
eP_1' 06 41 51
Resolute
eP' 06 41 14
i 07 02 28
Shawinigan Falls
eP' 06 41 15

NOVEMBER 22
U.S.C.G.S.
53.0N, 159.4E
Kamchatka
H = 07 09 14.8
h = 28 km
Ottawa
eP 07 20 33
Penticton
eP 07 17 57
Resolute
eP 07 17 20
Shawinigan Falls
eP 07 20 34

NOVEMBER 22
U.S.C.G.C.
40.0S, 74.3W
Near coast of
southern Chile
H = 12 28 58.4
h = 107 km
Mag 6 1/2
Banff
eP 12 42 27
Halifax
eP 12 41 26
iS 12 52 00
Ottawa
eP 12 41 27 d
Penticton
eP 12 42 28
Resolute
eP 12 47 34
PP 12 51 06?
eS 12 58 12?
sSS? 13 04 48?
Seven Falls
eP 12 41 37
Shawinigan Falls
eP 12 41 34

NOVEMBER 22
Resolute
eP? 14 05 29

NOVEMBER 22
U.S.C.G.S.
7.3N, 95.7E
Nicobar Islands
region
H = 17 51 36.5
h = 25 km
Resolute
eP? 18 05 22?

NOVEMBER 22
H = 23 54 21
Mag 2.1
Penticton
eP_1 23 54 49.5
eS_1 23 55 11.4
D = 178 km

NOVEMBER 23
H = 00 51 32
Mag 1.8
Penticton
eP_1 00 51 57.0
eS_1 00 52 15.9
D = 155 km

NOVEMBER 23
U.S.C.G.S.
4.9S, 153.8E
New Britain region
H = 04 11 34.7
h = 516 km
Banff
eP 04 24 01
Penticton
eP 04 23 48
Resolute
eP? 04 24 28

NOVEMBER 23
Penticton
eP 09 33 24

NOVEMBER 23
U.S.C.G.S.
24.2S, 176.1W
South of Tonga Islands
H = 14 12 21.1
h = 28 km
Mag 6 3/4
Alberni
eP 14 25 14
Banff
eP 14 25 31
Halifax
eP' 14 31 19 c
Penticton
eP 14 25 16
e 14 36 15
Resolute
eP' 14 30 59
i 14 41 10
e 14 42 10
i 14 47 23

Seven Falls
eP' 14 31 14
Shawinigan Falls
eP' 14 31 09
Victoria
eP 14 25 03

NOVEMBER 23
U.S.C.G.S.
4.6N, 125.8E
Philippine Islands
H = 16 52 12.9
h = 143 km
Resolute
eP 17 05 35
Shawinigan Falls
eP' 17 11 05
i 17 11 48

NOVEMBER 23
H = 17 09 09
Mag 2.0
Penticton
eP_1 17 09 36.0
eS_1 17 09 56.6
D = 168 km

NOVEMBER 23
U.S.C.G.S.
24.5S, 176.4W
South of Tonga Islands
H = 17 29 08.5
h = 171 km
Penticton
eP 17 41 49

NOVEMBER 23
U.S.C.G.S.
24.0S, 176.3W
South of Tonga Islands
H = 17 56 38.0
h = 51 km
Banff
eP 18 09 47
Penticton
eP 18 09 32 d

NOVEMBER 23
Penticton
eP 18 46 36

NOVEMBER 23
Resolute
eP? 20 18 00

NOVEMBER 23
U.S.C.G.S.
24.1S, 175.7W
South of Tonga Islands
H = 20 11 03.2
h = 25 km
Penticton
eP 20 24 00

NOVEMBER 23
U.S.C.G.S.
22.1S, 179.5W
South of Fiji Islands
H = 21 14 29.2
h = 631 km
Penticton
eP 21 26 21 c
Shawinigan Falls
eP' 21 31 21

NOVEMBER 24
U.S.C.G.S.
4.6S, 153.0E
New Britain region
H = 04 50 15.8
h = 87 km
Mag 6 1/4
Banff
eP 05 03 28
Ottawa
eP' 05 09 03
Penticton
eP 05 03 14
e 05 20 38
Resolute
eP 05 03 55
Shawinigan Falls
eP' 05 09 05

NOVEMBER 24
U.S.C.G.S.
24.2S, 176.1W
South of Tonga Islands
H = 06 52 41.1
h = 23 km
Mag 7
Alberni
eP 07 05 30
Banff
eP 07 05 54
Halifax
eP' 07 11 38
Ottawa
eP' 07 11 22
Penticton
iP 07 05 38 c
Resolute
eP 07 07 22
e 07 11 16
e 07 22 18 ?
Seven Falls
eP' 07 11 31
Shawinigan Falls
eP' 07 11 29
Victoria
eP 07 05 29

NOVEMBER 24
Penticton
iP 07 35 27

NOVEMBER 24
Penticton
eP 07 43 22

NOVEMBER 24
Penticton
eP 07 45 44

NOVEMBER 24
Penticton
eP 08 03 42

DOMINION OBSERVATORIES

NOVEMBER 24
U.S.C.G.S.
24.4S, 176.3W
South of Tonga Islands
H = 08 16 43.7
h = 25 km
Penticton
eP 08 29 42

NOVEMBER 24
U.S.C.G.S.
24.5S, 175.9W
South of Tonga Islands
H = 08 26 14.4
h = 25 km
Penticton
eP 08 39 10

NOVEMBER 24
Penticton
eP 08 50 22

NOVEMBER 24
Penticton
eP 09 29 23

NOVEMBER 24
U.S.C.G.S.
24.1S, 176.6W
South of Tonga Islands
H = 09 28 21.7
h = 93 km
Penticton
eP 09 41 08

NOVEMBER 24
Resolute
eP 14 19 42

NOVEMBER 24
U.S.C.G.S.
57.8N, 155.9W
Alaska Peninsula
H = 18 25 46.4
h = 46 km
Resolute
eP 18 31 34

NOVEMBER 24
Penticton
eP 19 30 49

NOVEMBER 25
H = 00 54 09
Mag 1.9
Penticton
eP_1 00 54 32.8
eS_1 00 54 51.2
D = 151 km

NOVEMBER 25
Resolute
eP? 02 47 49 ?

NOVEMBER 25
U.S.C.G.S.
38.0N, 140.5E
Honshu Japan
H = 21 54 13.8
h = 157 km
Penticton
eP 22 04 59
Resolute
iP 22 04 19 c
eS 22 12 33
Shawinigan Falls
eP 22 07 04
Victoria
eP 22 04 49 d,S,W

NOVEMBER 26
Penticton
eP 06 44 26

NOVEMBER 26
U.S.C.G.S.
36.6N, 141.0E
Near coast of Honshu Japan
H = 07 37 02.2
h = 100 km
Penticton
eP 07 48 00
Resolute
eP 07 47 23

NOVEMBER 26
Resolute
eP 15 52 05?

NOVEMBER 26
U.S.C.G.S.
51.8N, 168.1W
Fox Islands
H = 16 45 45.1
h = 85 km
Resolute
eP 16 52 46

NOVEMBER 26
U.S.C.G.S.
53.9S, 141.5E
Antarctic Ocean
H = 18 20 22.9
h = 25 km
Resolute
eP_1' 18 40 12

NOVEMBER 26
U.S.C.G.S.
24.3S, 175.5W
South of Tonga Islands
H = 21 35 36.6
h = 20 km
Penticton
eP 21 48 33

SEISMOLOGICAL BULLETIN - 1960

NOVEMBER 27
Resolute
eP 00 45 55

NOVEMBER 27
Alberni
eP 09 49 16
Penticton
eP 09 50 02
Victoria
eP 09 49 25 d

NOVEMBER 27
U.S.C.G.S.
62.9N, 150.9W
Alaska
H = 12 00 26.3
h = 171 km
Banff
eP 12 05 13
Penticton
eP 12 05 10 d
Resolute
eP 12 05 12
eS 12 09 08
Shawinigan Falls
eP 12 08 28
Victoria
eP 12 05 01

NOVEMBER 27
U.S.C.G.S.
42.8N, 143.3E
Near coast of Hokkaido Japan
H = 15 17 15.2
h = 122 km
Alberni
eP 15 27 17
Banff
iP 15 27 41 c
Penticton
iP 15 27 34 c
Resolute
iP 15 26 50 c
Shawinigan Falls
iP 15 29 44 c
Victoria
iP 15 27 24 c,N,E

NOVEMBER 27
H = 21 54 09
Mag 1.8
Penticton
eP_1 21 54 34.1
eS_1 21 54 53.0
D = 155 km

NOVEMBER 27
Penticton
eP 22 19 21

NOVEMBER 28
U.S.C.G.S.
36.2N, 31.1E
Near coast of Turkey
H = 05 12 50.1
h = 71 km
Resolute
eP 05 23 18

NOVEMBER 28
Halifax
P 05 34 42
Penticton
eP 05 40 01
Resolute
eP 05 37 24
Seven Falls
eP 05 36 32
Shawinigan Falls
eP 05 39 43

NOVEMBER 28
Penticton
eP 09 15 02

NOVEMBER 28
H = 11 24 51
Mag 1.5
Penticton
eP_1 11 25 08.0
eS_1 11 25 20.7
D = 104 km

NOVEMBER 28
Penticton
eP 15 49 41

NOVEMBER 28
47.4N, 27.6W
Azores
H = 19 47 16.9
h = 17 km
Halifax
P 19 52 42
Resolute
eP 19 54 45

NOVEMBER 28
Penticton
eP 21 16 38

NOVEMBER 28
Resolute
eP? 23 15 16?

NOVEMBER 29
U.S.C.G.S.
44.0S, 74.9W
Near coast of southern Chile
H = 09 32 01.5
h = 86 km
Mag 5 1/4
Halifax
P 09 44 52

NOVEMBER 29
U.S.C.G.S.
26.5N, 126.1E
Ryukyu Islands
H = 14 07 02.2
h = 147 km
Alberni
eP 14 19 09
Banff
eP 14 19 25
Penticton
iP 14 19 22 d
Resolute
iP 14 18 34 d
Victoria
eP 14 19 14 d,S,E

NOVEMBER 29
U.S.C.G.S.
15.8S, 73.3W
Near coast of Peru
H = 19 17 07.3
h = 100 km
Penticton
eP 19 28 53

NOVEMBER 29
Pentict on
eP 20 20 04

NOVEMBER 30
Resolute
eP 14 00 19

DECEMBER 1
U.S.C.G.S.
32.3S, 113.1W
Easter Island region
H = 08 42 26.5
h = 25 km
Penticton
eP 08 54 47

DECEMBER 1
U.S.C.G.S.
5.7S, 145.9E
Near coast of
New Guinea
H = 10 11 44.6
h = 45 km
Penticton
eP 10 25 14
e 10 53 22
Resolute
eP 10 25 40

DECEMBER 1
Resolute
eP 11 57 04

DECEMBER 1
Resolute
eP? 16 34 36

DECEMBER 1
49.4°N, 129.3°W
Off west coast of
Vancouver Island
H = 20 45 03
Mag 3.6
Alberni
eP_n 20 45 50.1
D = 330 km
Banff
eP_n 20 47 19
Penticton
eP_n 20 46 36.8
D = 710 km
Victoria
eP_n 20 46 04.3
D = 425 km

DECEMBER 1
48.5°N, 129.1°W
Off coast of
Vancouver Island
H = 20 49 45
h = 15 km
Mag 6
Alberni
eP_n 20 50 31.7
D = 330 km
Banff
eP_n 20 51 59
Ottawa
iP 20 56 48
Penticton
eP_n 20 51 19.7
D = 710 km
Resolute
eP 20 55 52
eS 21 00 48
Seven Falls
eP 20 57 09
Shawinigan Falls
eP 20 57 05
Victoria
eP_n 20 50 44.1
D = 425 km

DECEMBER 1
Resolute
eP 20 51 09?

DECEMBER 1
48°11'N, 124°53'W
Off coast of
Washington, U.S.A.
H = 21 05 21
Mag 2.3
Alberni
eP_1 21 05 40.6
eS_1 21 05 54.9
D = 120 km
Victoria
eP_1 21 05 40.1
eS_1 21 05 54.7
D = 117 km

DECEMBER 1
48.5°N, 129.2°W
Off coast of
Vancouver Island
H = 21 18 49
Mag 3.3
Alberni
eP_n 21 19 35.7
D = 327 km
Penticton
eP_n 21 20 23.2
D = 716 km
Victoria
eP_n 21 19 47.6
D = 424 km

DECEMBER 1
48.7°N, 129.2°W
Off coast of
Vancouver Island
H = 21 49 37.2
h = 60 km
Mag 3.8
Alberni
eP_n 21 50 21.1
D = 326 km
Banff
eP_n 21 51 48
Ottawa
eP 21 56 36
Penticton
eP_n 21 51 18.3
D = 712 km
Resolute
eP 21 55 39
eS 22 00 36
Seven Falls
eP 21 56 57
Shawinigan Falls
eP 21 56 53
Victoria
eP_n 21 50 33.5
D = 427 km

DECEMBER 1
48.9°N, 129.2W
Off coast of
Vancouver Island
H = 21 57 43
Mag 3.4
Alberni
eP_n 21 58 29.2
D = 324 km
Victoria
eP_n 21 58 42.4
D = 432 km

DECEMBER 1
48.5°N, 129.2°W
Off coast of
Vancouver Island
H = 22 05 30
Mag 3.7
Alberni
eP_n 22 06 16.5
D = 329 km
Banff
eP_n 22 07 41
Ottawa
eP 22 12 30
Resolute
eP 22 11 35
Seven Falls
eP 22 12 52
Victoria
eP_n 22 06 28.5
D = 427 km

DECEMBER 1
49N, 129W
Off coast of
Vancouver Island
H = 22 33 53
Mag 3.2
Alberni
eP_n 22 34 38.4
D = 330 km
Victoria
eP_n 22 34 51.0
D = 444 km

DECEMBER 1
48.6°N, 129.2°W
Off coast of
Vancouver Island
H = 22 54 55
Mag 3.5
Alberni
eP_n 22 55 42.2
D = 329 km
Victoria
eP_n 22 55 54.3
D = 429 km

DECEMBER 2
U.S.C.G.S.
6.6S, 152.5E
New Britain region
H = 04 37 28.2
h = 33 km
Resolute
eP 04 51 24

DECEMBER 2
U.S.C.G.S.
24.5S, 69.9W
Near coast of Chile
H = 09 10 41.0
h = 37 km
Mag 7
Alberni
eP 09 23 40
Banff
eP 09 23 18
Halifax
iP 09 21 49 c
Ottawa
eP 09 21 51
Penticton
eP 09 23 19
Resolute
eP 09 24 28
i 09 36 02
i 09 42 58
Seven Falls
eP 09 22 02
Shawinigan Falls
eP 09 21 58

DOMINION OBSERVATORIES

Victoria
eP 09 23 26
eS 09 33 31.2

DECEMBER 2
U.S.C.G.S.
24.3S, 69.8W
Near coast of Chile
H = 09 37 38.6
h = 64 km
Mag 6 3/4
Alberni
eP 09 50 28
Banff
eP 09 50 01
Halifax
iP 09 48 44 c
Ottawa
iP 09 48 46 c
Penticton
eP 09 50 15 c
Resolute
eP 09 51 22
Seven Falls
iP 09 48 57 c
Shawinigan Falls
iP 09 48 53 c
Victoria
eP 09 50 14

DECEMBER 2
Resolute
eP? 15 35 43

DECEMBER 2
Resolute
eP? 16 25 09

DECEMBER 2
U.S.C.G.S.
25.7N, 129.2E
Ryukyu Islands
H = 17 43 18.2
h = 81 km
Resolute
eP 17 54 57

DECEMBER 2
U.S.C.G.S.
41.6S, 88.3E
South Indian Ocean
H = 19 41 06.3
h = 35 km
Resolute
eP_1' 20 00 46

DECEMBER 2
Canadian Arctic
H = 22 54 14.6
Mag 2.4
Resolute
P_1 22 54 42.5
S_1 22 55 03.7
D = 174 km

DECEMBER 3
U.S.C.G.S.
42.8N, 104.5E
Outer Mongolia
H = 04 24 17.5
h = 45 km
Mag 7
Alberni
eP 04 36 19
Banff
iP 04 36 25 c
Halifax
eP 04 37 27 d
Ottawa
eP 04 37 26
Resolute
iP 04 34 35
PP? 04 36 52
iS 04 43 00
SS? 04 47 10

Seven Falls
iP 04 37 18 d
Shawinigan Falls
eP 04 37 20
Victoria
eP 04 36 24 c,S,E

DECEMBER 3
U.S.C.G.S.
15.8N, 101.0W
Off coast of
Guerrero Mexico
H = 04 55 17.0
h = 60 km
Resolute
eP 05 05 15

DECEMBER 3
U.S.C.G.S.
52.5N, 177.3W
Andreanof Islands
H = 07 07 42.7
h = 79 km
Alberni
eP 07 14 13
Banff
eP 07 14 48
Halifax
e 07 19 14
Ottawa
eP 07 17 52
i 07 18 39
Penticton
eP 07 14 37 c
Resolute
eP 07 15 00
Shawinigan Falls
eP 07 17 56
i 07 18 42
Victoria
eP 07 14 22 c

DECEMBER 3
Ottawa
eP 07 47 04

DECEMBER 3
Resolute
eP 08 03 11?

DECEMBER 3
U.S.C.G.S.
21.1N, 121.1E
Off coast of Formosa
H = 09 12 19.0
h = 35 km
Resolute
iP 09 24 35

DECEMBER 3
H = 15 51 31
Mag 2.5
Alberni
eP_1 15 51 44.6
eS_1 15 51 55.3
D = 88 km

DECEMBER 3
U.S.C.G.S.
43.1N, 104.3E
Outer Mongolia
H = 17 56 28.0
h = 25 km
Resolute
iP 18 06 47

DECEMBER 3
U.S.C.G.S.
76.7N, 131.1E
Laptev Sea
H = 20 21 01.3
h = 28 km
Ottawa
eP 20 30 47 d
Resolute
iP 20 26 40
Shawinigan Falls
eP 20 30 41

DECEMBER 3
Resolute
eP 21 22 36

DECEMBER 3
Resolute
eP 21 42 47

DECEMBER 3
45.8N, 125.0W
Off coast of
Oregon U.S.A.
H = 22 26 08
Mag 3.8
Alberni
eP_n 22 27 01.9
eS_n 22 27 46.8
D = 381 km
Penticton
eP_n 22 27 23.1
D = 556 km
Victoria
eP_n 22 26 54.6
eS_n 22 27 35.9
D = 326 km

DECEMBER 4
Resolute
eP? 02 25 57?

DECEMBER 4
Resolute
eP? 04 26 44?

DECEMBER 4
Resolute
eP 08 24 31?

DECEMBER 4
Resolute
iP 14 27 22 c?

DECEMBER 4
Resolute
eP 16 10 30

DECEMBER 4
U.S.C.G.S.
32.5N, 141.6E
Off coast of
Honshu Japan
H = 16 20 36.1
h = 106 km
Resolute
eP 16 31 20

DECEMBER 4
U.S.C.G.S.
12.8N, 88.6W
Near coast of
El Salvador
H = 18 30 20.4
h = 56 km
Resolute
eP 18 40 36

DECEMBER 4
Ottawa
eP 21 51 08
Resolute
eP 21 54 18?
Shawinigan Falls
eP 21 50 58

DECEMBER 4
U.S.C.G.S.
43.1N, 104.0E
Outer Mongolia
H = 22 14 33.6
h = 39 km
Resolute
eP 22 24 51

DECEMBER 4
Resolute
eP 22 40 01

DECEMBER 4
U.S.C.G.S.
21.2S, 179.0W
Fiji Islands region
H = 23 55 39.3
h = 633 km
Ottawa
eP' 24 13 12
Resolute
eP' 24 13 01
Shawinigan Falls
eP' 24 13 16
Victoria
eP 24 07 17

DECEMBER 5
U.S.C.G.S.
43.0N, 104.3E
Outer Mongolia
H = 08 38 49.5
h = 59 km
Resolute
eP 08 49 04

DECEMBER 5
H = 13 33 50
Mag 2.0
Alberni
iP_1 13 33 58.0
iS_1 13 34 02.6
D = 47 km

DECEMBER 5
H = 15 38 46
Mag 1.5
Victoria
iP_1 15 38 52.6
iS_1 15 38 57.9
D = 43 km

DECEMBER 5
U.S.C.G.S.
54.8N, 161.2E
Near east coast of
Kamchatka
H = 17 49 42.6
h = 25 km
Resolute
eP 17 57 30 c

DECEMBER 5
U.S.C.G.S.
54.3N, 161.2E
Near east coast of
Kamchatka
H = 18 07 26.7
h = 25 km
Banff
eP 18 16 04
Penticton
eP 18 15 56
Resolute
eP 18 15 16 c
Shawinigan Falls
eP 18 18 35 c

DECEMBER 5
H = 20 37 15
Mag 1.8
Penticton
iP_1 20 37 32.2
iS_1 20 37 45.2
D = 106 km

DECEMBER 5
U.S.C.G.S.
35.7N, 6.5W
Straits of Gibraltar
H = 21 21 51.7
h = 66 km
Ottawa
eP 21 30 55
Resolute
eP 21 31 21
Seven Falls
iP 21 30 27
Shawinigan Falls
eP 21 30 38 c

DECEMBER 5
Resolute
eP 22 08 41?

DECEMBER 5
U.S.C.G.S.
43.2N, 103.8E
Outer Mongolia
H = 23 46 29.8
h = 61 km
Resolute
eP 23 56 44

DECEMBER 6
U.S.C.G.S.
42.9N, 104.5E
Outer Mongolia
H = 03 35 30.6
h = 55 km
Resolute
eP 03 45 46

DECEMBER 6
U.S.C.G.S.
8.5N, 82.7W
Near coast of Panama
H = 08 56 16.5
h = 116 km
Mag 5 1/2
Halifax
eP 09 03 46
Ottawa
eP 09 03 22
Penticton
eP 09 05 12
Resolute
iP 09 06 58 d
i 09 07 03
PP? 09 09 44?
eS 09 15 47
SS 09 20 20?

Seven Falls
iP 09 03 45
Shawinigan Falls
eP 09 03 37
Victoria
eP 09 05 24

DECEMBER 6
U.S.C.G.S.
21.4S, 69.0W
Northern Chile
H = 08 56 07.6
h = 25 km
Mag 6
Alberni
eP 09 08 50
Halifax
iP 09 06 57 c
Ottawa
eP 09 07 01
Penticton
iP 09 08 37 c
Seven Falls
iP 09 07 12 c
Shawinigan Falls
eP 09 07 09
Victoria
iP 09 08 43 c,N,W

DECEMBER 6
U.S.C.G.S.
20.5S, 178.8W
Fiji Islands region
H = 12 17 38.7
h = 616 km
Penticton
eP 12 29 26
Victoria
eP 12 29 15

DECEMBER 6
U.S.C.G.S.
11.5N, 125.5E
Samar, Philippine
Islands
H = 18 19 33.6
h = 25 km
Resolute
eP 18 32 36

DECEMBER 7
H = 00 42 03
Mag 1.9
Penticton
eP_1 00 42 28.4
eS_1 00 42 48.0
D = 160 km

DECEMBER 7
Resolute
eP? 01 41 38

DECEMBER 7
Resolute
eP 03 16 33 c ?

DECEMBER 7
Penticton
eP 07 44 21.5
Victoria
eP 07 44 22.9

DECEMBER 7
U.S.C.G.S.
62.5N, 150.4W
Alaska
H = 07 42 42.5
h = 64 km
Penticton
eP 07 47 31
Resolute
eP 07 47 33
Shawinigan Falls
eP 07 50 50
Victoria
eP 07 47 20

DECEMBER 7
Resolute
eP 22 59 52

DECEMBER 8
49°44'N, 123°28'W
Texada Island ?
H = 02 30 10
Mag 2.6
Alberni
iP_1 02 30 15.6
iS_1 02 30 23.0
D = 60 km
Victoria
iP_1 02 30 31.0
D = 157 km

DECEMBER 8
Alberni
eP 04 04 56.2

DECEMBER 8
U.S.C.G.S.
31.6S, 68.9W
San Juan Province
Argentina
H = 11 20 07.8
h = 140 km
Halifax
iP 11 31 48.5 d
Ottawa
eP 11 31 52 d
Seven Falls
eP 11 32 01
Shawinigan Falls
eP 11 31 58 d

DECEMBER 8
U.S.C.G.S.
9.8N, 125.5E
Philippine Islands
H = 19 12 11.0
h = 77 km
Resolute
eP 19 25 14 c

DECEMBER 9
Alberni
eP 04 27 40.5

DECEMBER 9
Resolute
iP 07 15 36

DECEMBER 9
Penticton
iP_1 11 24 29.4
very near Penticton station

DECEMBER 9
U.S.C.G.S.
72.0N, 1.6W
Jan Mayen Island region
H = 21 24 57.0
h = 60 km
Resolute
eP 21 30 19

DECEMBER 10
U.S.C.G.S.
19.0N, 119.5E
Near north coast of Luzon, Philippine Islands
H = 06 29 33.1
h = 60 km
Resolute
eP 06 42 00

DECEMBER 10
Canadian Arctic
H = 13 02 46.6
Mag 2.2
Resolute
P_1 13 03 08.4
S_1 13 03 25.0
D = 136 km

DECEMBER 10
U.S.C.G.S.
15.0S, 172.3W
Samoa Islands region
H = 13 32 18.3
h = 25 km
Penticton
eP 13 44 27

DECEMBER 10
U.S.C.G.S.
1.5N, 124.3E
Celebes Sea
H = 13 55 16.5
h = 292 km
Resolute
eP 14 08 35

DECEMBER 10
49°36'N, 124°30'W
Texada Island
H = 23 49 03
Mag 1.8
Alberni
iP_1 23 49 09.7
iS_1 23 49 15.0
D = 44 km
Victoria
eP_1 23 49 25.9

DECEMBER 11
U.S.C.G.S.
22.1S, 171.4E
Loyalty Islands region
H = 00 01 10.4
h = 144 km
Resolute
eP' 00 19 31

DECEMBER 11
Resolute
eP 00 28 53

DECEMBER 11
U.S.C.G.S.
1.6N, 126.4E
Molucca Passage
H = 03 18 10.9
h = 52 km
Resolute
eP 03 31 53
e 03 36 00

DECEMBER 11
U.S.C.G.S.
48.9°N, 129.7°W
Vancouver Island region
H = 18 58 40.5
h = 93 km
Mag 3.8
Alberni
eP_n 18 59 22.5
D = 360 km
Penticton
eP_n 19 00 10.2
D = 743 km

DECEMBER 11
Banff
eP 19 03 13

DECEMBER 11
U.S.C.G.S.
15.7S, 166.9E
New Hebrides Islands region
H = 18 53 09.2
h = 133 km
Mag 6 1/4
Ottawa
eP' 19 11 50
Penticton
eP 19 06 05
Resolute
eP' 19 11 24
Seven Falls
eP' 19 11 56
Shawinigan Falls
eP' 19 11 55

DECEMBER 11
48.9°N, 129.7°W
Off coast of Vancouver Island
H = 19 07 55
Mag 3.7
Alberni
eP_n 19 08 37.3
D = 360 km
Penticton
eP_n 19 09 25.5
D = 743 km

DECEMBER 11
Resolute
eP? 20 46 25?

DECEMBER 11
H = 21 44 15
Mag 2.0
Penticton
eP_1 21 44 38.1
eS_1 21 44 55.5
D = 142 km

DECEMBER 12
Resolute
eP 02 01 13

DECEMBER 12
Resolute
eP? 06 07 53?

DECEMBER 12
Resolute
iP 11 32 21
i 11 34 19

DECEMBER 13
Resolute
eP 04 30 58

DECEMBER 13
U.S.C.G.S.
52.1S, 160.9E
Macquarie Islands
H = 07 36 13.8
h = 29 km
Mag 7 1/4
Banff
eP' 07 55 37
Halifax
P_1' 07 56 23.5
Ottawa
eP' 07 56 03
Penticton
eP' 07 55 09
Resolute
eP' 07 55 44
Seven Falls
eP' 07 56 01
Shawinigan Falls
eP' 07 55 53
Victoria
eP' 07 56 03 c
eS 08 06 14

DECEMBER 13
21.8S, 175.5W
Tonga Islands
H = 09 03 09.2
h = 84 km
Banff
eP 09 16 01
Penticton
eP 09 15 47

DECEMBER 13
U.S.C.G.S.
27.7N, 142.4E
Bonin Islands region
H = 10 05 24.3
h = 28 km
Banff
eP 10 17 11
Penticton
eP 10 17 02
Resolute
eP 10 16 43

DECEMBER 13
Resolute
eP? 19 21 31?

DECEMBER 14
U.S.C.G.S.
10.8S, 165.4E
Santa Cruz Islands
H = 00 57 25.0
h = 65 km
Penticton
eP 01 10 13
Victoria
e 01 39 03

DECEMBER 14
Resolute
eP 03 46 43?

DOMINION OBSERVATORIES

DECEMBER 14
U.S.C.G.S.
26.6N, 130.3E
Ryukyu Islands region
H = 04 02 02.1
h = 25 km
Resolute
iP 04 13 40

DECEMBER 14
U.S.C.G.S.
32.8S, 179.6W
Kermadec Islands region
H = 08 13 21.2
h = 25 km
Resolute
eP' 08 32 09

DECEMBER 14
Penticton
eP 12 15 23

DECEMBER 14
U.S.C.G.S.
51.9S, 160.7E
Macquarie Islands region
H = 14 23 25.7
h = 77 km
Ottawa
eP' 14 42 59
Resolute
eP' 14 42 58
Shawinigan Falls
eP' 14 42 58

DECEMBER 14
Alberni
eP 20 01 06

DECEMBER 14
U.S.C.G.S.
2.9N, 126.5E
Molucca Passage
H = 23 51 28.6
h = 77 km
Mag 6 3/4
Banff
eP 24 05 30
Halifax
P' 24 10 40
Ottawa
eP' 24 10 29
Resolute
eP 24 05 01
PP? 24 09 06
eS 24 15 30
Seven Falls
eP' 24 10 27
Shawinigan Falls
eP' 24 10 29
Victoria
iP 24 05 14 c
ePP 24 08 40
eS 24 15 44 c
e L 24 37 47 c

DECEMBER 15
U.S.C.G.S.
13.6N, 120.7E
Luzon, Philippine Islands
H = 12 09 54.9
h = 149 km
Resolute
eP 12 22 39

DECEMBER 15
Resolute
eP 19 07 21

DECEMBER 15
12.2N, 87.8W
Near coast of Nicaragua
H = 23 24 35.8
h = 39 km
Ottawa
eP 23 31 24
Penticton
eP 23 32 52
Resolute
eP 23 34 57
Seven Falls
eP 23 31 49
Shawinigan Falls
eP 23 31 40

DECEMBER 16
H = 00 22 37
Mag 1.9
Penticton
eP_1 00 23 04.4
eS_1 00 23 25.0
D = 168 km

DECEMBER 16
H = 00 44 34
Mag 1.8
Penticton
eP_1 00 44 59.5
eS_1 00 45 18.9
D = 159 km

DECEMBER 16
U.S.C.G.S.
51.1N, 170.6W
Fox Islands
H = 01 20 02.2
h = 32 km
Banff
eP 01 26 45
Ottawa
eP 01 30 03
Penticton
eP 01 26 31
Resolute
eP 01 27 19

Shawinigan Falls
eP 01 30 08

DECEMBER 16
U.S.C.G.S.
16.3S, 178.0E
Fiji Islands region
H = 08 52 17.3
h = 44 km
Penticton
eP 09 04 54

DECEMBER 16
Resolute
eP? 13 12 41?

DECEMBER 16
U.S.C.G.S.
43.8N, 28.9W
North Atlantic Ocean
H = 18 21 31.7
h = 21 km
Halifax
iP 18 26 56 c
Penticton
eP 18 31 31
Resolute
eP 18 29 24
eS 18 35 43
i 18 38 52
Seven Falls
eP 18 27 36

DECEMBER 16
H = 21 05 21
Mag less than 1
Victoria
eP_1 21 05 30.3
eS_1 21 05 37.4
D = 58 km

DECEMBER 16
H = 23 56 40
Mag 3.0
Penticton
eP_n 23 57 31.3
eS_n 23 58 16.2
D = 368 km

DECEMBER 17
U.S.C.G.S.
50.6N, 175.3W
Andreanof Islands
H = 02 04 35.4
h = 92 km
Ottawa
eP 02 14 46
Penticton
eP 02 11 22
Resolute
eP 02 11 59
Seven Falls
eP 02 14 55
Shawinigan Falls
eP 02 14 53

DECEMBER 17
H = 07 34 15
Mag 2.7
Penticton
eP_n 07 34 53.2
eS_n 07 35 25.2
D = 262 km

DECEMBER 17
U.S.C.G.S.
15.1S, 73.5W
Southern Peru
H = 07 38 31.1
h = 28 km
Banff
eP 07 50 13
Ottawa
eP 07 48 42
Penticton
eP 07 50 20
Resolute
eP 07 51 34
Seven Falls
iP 07 48 54 c
Victoria
iP 07 50 32 c

DECEMBER 17
Resolute
eP? 08 26 39?

DECEMBER 17
Resolute
eP? 08 39 21

DECEMBER 17
Resolute
eP? 09 19 39

DECEMBER 17
H = 09 48 19
Mag 2.4
Penticton
eP_n 09 48 58.2
eS_n 09 49 30.3
D = 263 km

DECEMBER 17
Resolute
eP? 10 28 26?

DECEMBER 17
U.S.C.G.S.
6.4S, 109.3E
Java Sea
H = 10 37 14.1
h = 295 km
Banff
iP' 10 55 38
Halifax
iP' 10 56 11 d
Ottawa
eP' 10 56 08
Penticton
iP' 10 55 37 d

DOMINION OBSERVATORIES

Resolute
eP 10 51 18
eP' 10 55 16
Seven Falls
eP' 10 56 03
Shawinigan Falls
eP' 10 56 10
Victoria
iP' 10 55 34 d

DECEMBER 17
Victoria
eP 12 27 52

DECEMBER 17
Penticton
eP 12 31 37

DECEMBER 17
U.S.C.G.S.
43.2N, 28.9W
North of Azores
H = 13 14 16.8
h = 25 km
Resolute
eP 13 22 12

DECEMBER 17
U.S.C.G.S.
11.1N, 141.3E
Mariana Islands
region
H = 13 25 09.1
h = 25 km
Penticton
eP 13 37 59
Resolute
iP 13 37 59 d?

DECEMBER 17
H = 14 06 34
Mag 1.5
Penticton
eP_1 14 06 51.8
eS_1 14 07 05.5
D = 112 km

DECEMBER 17
Penticton
eP 16 14 32
Resolute
eP 16 15 53

DECEMBER 17
U.S.C.G.S.
47.3N, 153.6E
Kurile Islands
H = 16 44 45.4
h = 15 km
Penticton
eP 16 54 15
Resolute
iP 16 53 44 c?
Shawinigan Falls
eP 16 56 45
Victoria
eP 16 54 06

DECEMBER 17
U.S.C.G.S.
39.5N, 29.6W
Azores
H = 18 05 37.0
h = 33 km
Resolute
eP 18 14 00

DECEMBER 17
Resolute
eP 19 13 50

DECEMBER 17
Resolute
eP? 19 44 50?

DECEMBER 17
Penticton
eP 21 01 09

DECEMBER 17
Victoria
eP 23 27 33

DECEMBER 17
48.9°N, 122.0°W
Near Mount Baker,
Washington, U.S.A.
H = 23 32 53
Mag 2.0
Penticton
eP_1 23 33 21.8
eS_1 23 33 46.5
D = 170 km
Victoria
eP_1 23 33 10.6
eS_1 23 33 23.8
D = 100 km

DECEMBER 18
Victoria
eP 00 31 44

DECEMBER 18
U.S.C.G.S.
37.3N, 143.4E
Off east coast of
Honshu Japan
H = 07 35 59.8
Resolute
iP 07 46 09 d?

DECEMBER 18
Resolute
iP 09 11 08

DECEMBER 18
Shawinigan Falls
eP 10 09 19

SEISMOLOGICAL BULLETIN - 1960

DECEMBER 18
U.S.C.G.S.
8.5N, 125.9E
Mindanao,
Philippine Islands
H = 18 20 43.3
Resolute
iP 18 33 58

DECEMBER 19
U.S.C.G.S.
8.3N, 38.3W
Atlantic Ocean
H = 10 00 33.9
h = 25 km
Ottawa
eP 10 09 25
Resolute
eP 10 12 09
Seven Falls
iP 10 09 13

DECEMBER 19
U.S.C.G.S.
24.3S, 69.6W
Northern Chile
H = 13 22 01.3
h = 17 km
Resolute
eP 13 37 01d?
Shawinigan Falls
eP 13 33 22

DECEMBER 19
U.S.C.G.S.
11.3N, 141.2E
Mariana Islands
H = 18 59 40.8
h = 77 km
Resolute
iP 19 12 25

DECEMBER 19
45°45'N, 75°13'W
About 10 miles west
of Ripon, Quebec
H = 19 27 56.5
Mag 2.9
Montreal
P_1 19 28 16.9
S_1 19 28 32.4
D = 127 km
Ottawa
P_1 19 28 05.3
S_1 19 28 11.9
D = 54 km
Seven Falls
S_1 19 29 42.2
D = 372 km
Shawinigan Falls
S_1 19 28 54.4
D = 210 km

DECEMBER 20
U.S.C.G.S.
25.1N, 122.9E
Near north coast of
Formosa
H = 06 04 33.6
h = 60 km
Resolute
iP 06 16 26

DECEMBER 21
H = 11 22 21
Mag 2.4
Penticton
eP_n 11 22 59.5
eS_n 11 23 31.5
D = 262 km

DECEMBER 21
U.S.C.G.S.
61.6N, 152.3W
Alaska
H = 14 40 01.6
h = 169 km
Mag 5 3/4
Alberni
iP 14 44 23
Banff
iP 14 44 54 d
Halifax
iP 14 48 54 d
Ottawa
eP 14 48 08 d
Penticton
iP 14 44 48 d
Resolute
iP 14 45 02
S? 14 49 06?
SS? 14 49 49
Seven Falls
iP 14 48 15 d
Shawinigan Falls
eP 14 48 12
Victoria
iP 14 44 36 d,N,W

DECEMBER 21
U.S.C.G.S.
11.2N, 141.3E
Mariana Islands region
H = 20 53 51.8
h = 72 km
Resolute
eP 21 06 37

DECEMBER 21
Resolute
eP 21 35 40

DECEMBER 21
62.5S, 167.1E
North of Balleny Islands
H = 22 29 54.9
h = 29 km
Resolute
eP_1' 22 49 45

DECEMBER 22
Resolute
eP 01 24 35?

DECEMBER 22
U.S.C.G.S.
29.8S, 179.6W
Kermadec Islands region
H = 02 25 29.3
h = 379 km
Resolute
iP' 02 43 32

DECEMBER 22
U.S.C.G.S.
9.8N, 94.2E
Nicobar Islands
H = 03 02 29.2
h = 60 km
Resolute
eP 03 15 48
i 03 15 56

DECEMBER 22
U.S.C.G.S.
16.1S, 72.9W
Near coast of southern Peru
H = 03 47 21.7
h = 147 km
Penticton
eP 03 59 05
Resolute
eP 04 00 17

Seven Falls
eP 03 57 38
Victoria
eP 03 59 11

DECEMBER 22
Resolute
eP 04 29 41?

DECEMBER 22
U.S.C.G.S.
30.8S, 177.1W
Kermadec Islands region
H = 06 31 21.5
h = 46 km
Ottawa
eP' 06 50 07
Penticton
eP 06 44 42
Resolute
eP' 06 50 03 c
Victoria
eP 06 44 30

DECEMBER 22
U.S.C.G.S.
43.1N, 126.2W
Off coast of northern California
H = 11 41 06.0
h = 51 km
Mag 3.8 (Vic.)
Alberni
eP_n 11 42 37.0
D = 565 km
Penticton
eP_n 11 42 55.2
D = 715 km
Resolute
eP 11 47 54
Victoria
eP_n 11 42 28.1
D = 492 km

DECEMBER 22
U.S.C.G.S.
30.5S, 71.5W
Near coast of Chile
H = 12 21 33.0
h = 110 km
Penticton
eP 12 34 25

DECEMBER 22
Resolute
eP? 13 25 36?

DECEMBER 22
U.S.C.G.S.
53.7N, 168.1W
Fox Islands
H = 14 27 40.3
h = 57 km
Ottawa
eP 14 37 21
Penticton
eP 14 33 51
Resolute
eP 14 34 31 d
i 14 37 03
Seven Falls
eP 14 37 29
Shawinigan Falls
eP 14 37 25

DECEMBER 22
Resolute
iP 14 40 38 c?

DECEMBER 22
U.S.C.G.S.
6.8S, 155.3E
Solomon Islands
H = 21 02 41.1
h = 469 km
Mag 5 1/2
Ottawa
eP' 21 20 46

Penticton
iP 21 15 03 c
e 21 30 11
e 21 32 19
Resolute
eP 21 15 47
i 21 25 44
i 21 31 50
Seven Falls
eP' 21 20 50
e 21 28 42
Shawinigan Falls
eP' 21 20 49

DECEMBER 22
Penticton
eP 23 32 15.3

DECEMBER 22
H = 23 59 17
Mag 2.0
Penticton
iP_1 23 59 44.8
iS_1 24 00 05.8
D = 172 km

DECEMBER 23
H = 00 34 35
Mag 0.8
Penticton
eP_1 00 34 39.3
eS_1 00 34 42.4
D = 26 km

DECEMBER 23
H = 00 48 25
Mag 0.6
Penticton
eP_1 00 48 29.6
eS_1 00 48 32.8
D = 26 km

DECEMBER 23
H = 02 07 43
Mag 2.5
Penticton
eP_n 02 08 23.3
eS_n 02 08 57.3
D = 278 km

DECEMBER 23
U.S.C.G.S.
14.3N, 92.2W
Guatemala-Mexico border region
H = 06 07 01.1
h = 48 km
Ottawa
eP 06 13 43
Penticton
eP 06 14 47
Resolute
eP 06 17 08

DECEMBER 23
U.S.C.G.S.
3.3S, 101.9E
Near coast of Sumatra
H = 09 41 48.4
h = 134 km
Penticton
eP' 10 00 32
Resolute
eP' 10 00 04
Seven Falls
eP' 10 00 51
Shawinigan Falls
eP' 10 01 01
Victoria
eP' 10 00 29

DECEMBER 23
U.S.C.G.S.
8.2N, 125.7E
Mindanao, Philippine Islands
H = 10 47 57.9
h = 67 km
Resolute
eP 11 01 10

DECEMBER 23
Resolute
eP 13 20 42?

DECEMBER 23
U.S.C.G.S.
8.8N, 125.7E
Mindanao, Philippine Islands
H = 15 47 04.9
h = 120 km
Resolute
eP 16 00 09

DECEMBER 23
H = 16 29 43
Mag 2.5
Penticton
eP_n 16 30 24.6
eS_n 16 30 59.5
D = 285 km

DECEMBER 23
Resolute
eP 17 06 55?

DECEMBER 23
U.S.C.G.S.
15.6N, 121.7E
Near east coast of Luzon, Philippine Islands
H = 19 30 41.6
h = 49 km
Resolute
eP 19 43 23

DECEMBER 23
Seven Falls
eP 20 59 23

DECEMBER 24
H = 03 22 18
Mag 2.3
Penticton
eP_n 03 22 56.7
eS_n 03 23 28.3
D = 259 km

DECEMBER 24
U.S.C.G.S.
17.6S, 66.6E
Indian Ocean
H = 03 55 33.7
h = 100 km
Penticton
eP_1' 04 15 11

DECEMBER 24
H = 08 09 50
Mag 2.1
Penticton
eP_n 08 10 21.5
eS_n 08 10 46.1
D = 201 km

DECEMBER 24
Penticton
eP 09 02 23
Resolute
eP? 09 03 36?

DECEMBER 24
Resolute
eP 12 36 12

DECEMBER 24
U.S.C.G.S.
38.4S, 143.6E
Victoria Australia
H = 16 42 14.7
h = 77 km
Resolute
eP' 17 01 29
Seven Falls
eP' 17 02 10 d
Shawinigan Falls
iP' 17 02 07 d

DECEMBER 24
48°31''N, 123°58'W
Lower Vancouver Island
H = 17 47 58
Mag 1.6
Alberni
eP_1 17 48 14.8
D = 106 km
Victoria
iP_1 17 48 04.4
iS_1 17 48 09.3
D = 40 km

DECEMBER 24
48°47'N, 122°32'W
Whidbey Island
H = 18 50 16
Mag 2.1
Penticton
eP_n 18 50 52.6
D = 244 km
Victoria
iP_1 18 50 27.2
iS_1 18 50 35.6
D = 69 km

DECEMBER 24
U.S.C.G.S.
3.6S, 77.8W
Peru-Ecuador border region
H = 23 18 29.2
h = 25 km
Banff
eP 23 28 58
Ottawa
eP 23 27 17
Penticton
eP 23 29 05
Resolute
eP 23 30 33
Seven Falls
eP 23 27 33
Shawinigan Falls
eP 23 27 28

DECEMBER 25
Resolute
eP 01 23 28

DECEMBER 25
H = 04 23 01
Mag 2.1
Penticton
eP_n 04 23 39.1
eS_n 04 24 10.6
D = 258 km

DECEMBER 25
U.S.C.G.S.
29.0N, 142.8E
Bonin Islands
H = 05 21 03.1
h = 25 km
Resolute
eP 05 32 16

DECEMBER 25
H = 06 37 51
Mag 2.4
Penticton
eP_n 06 38 29.9
eS_n 06 39 01.8
D = 261 km

DECEMBER 25
Resolute
eP? 11 22 41?

DECEMBER 25
Resolute
eP? 11 35 10

DECEMBER 25
Ottawa
eP 12 55 09

DECEMBER 25
Ottawa
eP 17 23 13

DECEMBER 25
54.6N, 161.6E
Near east coast of Kamchatka
H = 20 27 34.1
h = 37 km
Resolute
eP 20 35 21

DECEMBER 26
U.S.C.G.S.
23.7S, 176.9W
Tonga Islands region
H = 00 56 16.6
h = 59 km
Penticton
eP 01 09 09
Resolute
e 01 12 05

DECEMBER 26
U.S.C.G.S.
33.8N, 136.2E
Near south coast of Honshu Japan
H = 01 44 48.7
h = 109 km
Penticton
eP 01 56 14
Resolute
iP 01 55 31d?

DECEMBER 26
U.S.C.G.S.
57.4S, 26.2W
Sandwich Islands
H = 04 32 30.1
h = 25 km
Mag 5 1/4
Alberni
e 04 55 03
Banff
eP' 04 51 40
Penticton
eP' 04 51 42
e 04 54 53
Resolute
iP' 04 51 46
e 04 55 20
e 05 13 08
Victoria
e 04 54 58

DECEMBER 26
U.S.C.G.S.
8.3N, 83.2W
Costa Rica - Panama border region
H = 05 36 43.8
h = 104 km
Penticton
eP 05 45 40
Resolute
eP 05 47 27

DECEMBER 26
Resolute
eP? 06 26 57

DECEMBER 26
Canadian Arctic
H = 13 45 35.0
h = 22 km
Mag 2.1
Resolute
P_n 13 46 00.5
P_1 13 46 02.0
S_n 13 46 19.5
S_1 13 46 22.3
D = 166 km

DECEMBER 26
H = 14 49 06
Mag 1.7
Penticton
eP_1 14 49 25.0
eS_1 14 49 39.3
D = 117 km

DECEMBER 26
Resolute
eP? 20 07 57?

DECEMBER 26
Resolute
eP 20 53 53?

DECEMBER 26
Resolute
eP? 22 55 29

DECEMBER 27
Resolute
eP 05 28 33?

DECEMBER 27
U.S.C.G.S.
41.3N, 124.9W
Off coast of
northern California
H = 10 35 28.0
h = 30 km
Mag 5
Alberni
eP 10 37 20.0
Banff
eP 10 38 14.5
Halifax
eP(?) 10 43 37 d
Ottawa
eP 10 42 26
Penticton
eP_n 10 37 31.4
Resolute
iP 10 42 28 d ?
eS 10 48 09
Seven Falls
eP 10 42 50
Shawinigan Falls
iP 10 42 40 d
Victoria
eP_n 10 37 07.3

DECEMBER 27
Penticton
eP 10 58 43
Resolute
eP 11 03 38
Victoria
eP 10 58 21

DECEMBER 27
U.S.C.G.S.
41.4N, 125.2W
Off coast of
northern California
H = 11 08 46.0
h = 61 km
Mag 4 1/4
Alberni
eP 11 10 53.2
Banff
eP 11 11 46.4
Penticton
eP 11 10 50.0
Resolute
eP 11 15 46
i 11 16 00
Victoria
eP 11 10 41.1

DECEMBER 27
U.S.C.G.S.
13.7S, 74.3W
Near coast of Peru
H = 18 09 41.6
h = 82 km
Banff
eP 18 21 11
Halifax
P 18 19 36.5c(?)
Ottawa
eP 18 19 36
Penticton
eP 18 21 16
Resolute
iP 18 22 33 d
Seven Falls
eP 18 19 49
Shawinigan Falls
eP 18 19 44
Victoria
eP 18 21 23

DECEMBER 28
U.S.C.G.S.
34.9N, 22.5E
Near coast of
Greece
H = 05 39 43.7
h = 67 km
Resolute
eP 05 50 09
Seven Falls
eP 05 50 36
Shawinigan Falls
eP 05 50 46

DECEMBER 28
Canadian Arctic
H = 19 45 39.5
Mag 4.3
Resolute
P_n 19 48 04.5
S_n 19 49 51
L_g 19 51 05
D = 1125 km

DECEMBER 28
Resolute
eP? 20 58 44
e 21 00 35

DECEMBER 28
Resolute
eP 23 21 58

DECEMBER 29
Resolute
eP? 00 50 01?

DECEMBER 29
Resolute
eP 09 50 18?

DECEMBER 29
U.S.C.G.S.
44.8S, 75.6W
Near coast of
southern Chile
H = 10 36 40.0
h = 30 km
Mag 6 1/2
Halifax
eP 10 49 41 c
Ottawa
eP 10 49 39
Resolute
eP' 10 55 29
e 11 05 36
Seven Falls
eP 10 49 51

Shawinigan Falls
eP 10 49 48

DECEMBER 29
U.S.C.G.S.
10.1S, 76.0W
Peru
H = 11 04 19.0
h = 19 km
Resolute
eP 11 16 57

DECEMBER 29
U.S.C.G.S.
35.3N, 22.6E
Near Crete
H = 18 19 41.6
h = 54 km
Ottawa
eP 18 30 56
Resolute
eP 18 30 06
Seven Falls
iP 18 30 31 d

DECEMBER 29
U.S.C.G.S.
18.8S, 69.4W
Northern Chile
H = 19 01 38.1
h = 39 km
Banff
eP 19 13 46
Halifax
iP 19 12 08.5 c
Ottawa
iP 19 12 14 d
Resolute
eP 19 14 59 d
Penticton
iP 19 13 54 d
Seven Falls
iP 19 12 24 d
Shawinigan Falls
iP 19 12 21 d
Victoria
iP 19 14 00 d,S,E

DECEMBER 29
Resolute
eP? 21 23 27?

DECEMBER 29
Resolute
eP? 22 24 21?

DECEMBER 29
Resolute
eP 22 37 13?

DECEMBER 29
Resolute
eP 23 21 30?

DECEMBER 30
Resolute
eP 01 53 22?

DECEMBER 30
Resolute
eP? 06 12 55?

DECEMBER 30
Resolute
eP? 08 38 55

DECEMBER 30
U.S.C.G.S.
16.9S, 70.0W
Southern Peru
H = 11 03 36.8
h = 47 km
Ottawa
eP 11 13 58
Penticton
eP 11 14 40
Resolute
eP? 11 16 48?
Seven Falls
iP 11 14 08 c

DECEMBER 30
H = 17 30 10
Mag 0.5
Penticton
iP_1 17 30 13.4
iS_1 17 30 16.0
D = 22 km

DECEMBER 30
Resolute
eP? 19 20 26

DECEMBER 30
H = 22 08 19
Mag 0.6
Penticton
iP_1 22 08 22.3
iS_1 22 08 24.7
D = 20 km

DECEMBER 30
H = 22 54 30
Mag 2.0
Penticton
iP_1 22 54 56.3
iS_1 22 55 16.0
D = 161 km

DECEMBER 31
Resolute
eP? 09 03 48

DECEMBER 31
Resolute
eP 14 59 37

DOMINION OBSERVATORIES

DECEMBER 31
U.S.C.G.S.
43.9S, 75.0W
Near coast of
southern Chile
H = 18 08 12.3
h = 92 km
Mag 6 1/2
Ottawa
eP 18 21 02
Resolute
eP' 18 26 55?
Seven Falls
eP 18 21 11

DECEMBER 31
H = 21 06 25
Mag 2.0
Penticton
iP_1 21 06 53.6
iS_1 21 07 15.4
D = 179 km

DECEMBER 31
H = 21 46 31
Mag 2.2
Penticton
iP_n 21 47 04.0
iS_n 21 47 29.8
D = 211 km

DECEMBER 31
H = 22 23 03
Mag 2.2
Penticton
iP_n 22 23 35.8
eS_n 22 24 02.1
D = 215 km

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the last quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

OCTOBER 4 at 02 27 50 U.T. Magnitude 1.9. Originated 254 km from Resolute, N.W.T.

OCTOBER 4 at 04 04 30 U.T. Magnitude 1.9. Originated 217 km from Resolute, N.W.T.

OCTOBER 8 at 06 49 20 U.T. Magnitude 3.2. Originated 440 km from Resolute, N.W.T., at a depth of about 15 km.

OCTOBER 14 at 08 11 51 U.T. Magnitude 2.5. Originated 57 km from Resolute, N.W.T.

OCTOBER 14 at 20 46 50 U.T. Magnitude 2.7. Originated 210 km from Resolute, N.W.T., at a depth of about 20 km.

OCTOBER 15 at 02 48 47 U.T. Magnitude 1.5. Originated 164 km from Resolute, N.W.T., at a depth of about 24 km.

OCTOBER 19 at 00 23 04 U.T. Magnitude 1.6. Originated 49 km from Resolute, N.W.T.

OCTOBER 22 at 15 27 37 U.T. Magnitude 4.1. Originated 730 km from Resolute, N.W.T., at a depth of about 14 km.

NOVEMBER 4 at 09 54 35 U.T. Magnitude 1.7. Originated 49 km from Resolute, N.W.T.

NOVEMBER 10 at 22 32 24 U.T. Magnitude 3.3. Originated 550 km from Resolute, N.W.T.

NOVEMBER 16 at 08 48 58 U.T. Magnitude 1.7. Originated 49 km from Resolute, N.W.T.

DECEMBER 2 at 22 54 15 U.T. Magnitude 2.4. Originated 174 km from Resolute, N.W.T.

DECEMBER 10 at 13 02 47 U.T. Magnitude 2.2. Originated 136 km from Resolute, N.W.T.

DECEMBER 26 at 13 45 35 U.T. Magnitude 2.1. Originated 166 km from Resolute, N.W.T., at a depth of about 22 km.

DECEMBER 28 at 19 45 40 U.T. Magnitude 4.3. Originated 1125 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 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

NOVEMBER 3 at 04 11 47 U.T. Magnitude 2.7. Epicentre at 48°00'N, 74°52'W. About 15 miles west of Parent, Quebec, where it was felt by a few persons.

DECEMBER 19 at 19 27 57 U.T. Magnitude 2.9. Epicentre at 45°45'N, 75°13'W. About 10 miles west of Ripon, Quebec.

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the fourth quarter of 1960. 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.

OCTOBER 5 at 02 59 47 U.T. Magnitude 2.4. Epicentre at 48°36'N, 123°52'W. Southern Vancouver Island. Q:b.

OCTOBER 5 at 08 24 58 U.T. Magnitude 1.9. 108 km from Victoria.

OCTOBER 8 at 00 37 23 U.T. 56 km from Alberni. Texada?

OCTOBER 8 at(10 54 24.7) ? U.T.Magnitude approximately 2.

OCTOBER 10 at 15 06 38 U.T. Magnitude 2.5. 166 km from Penticton

OCTOBER 10 at 23 54 32 U.T. Magnitude 4.5. Epicentre at 53N, 133W. Off the southern Queen Charlottes. Q:d .

OCTOBER 10 at 23 24 25 U.T. Magnitude 2.5. 105 km from Alberni.

OCTOBER 11 at 10 41 51 U.T. Magnitude 3.1. 275 km from Victoria and 440 km from Penticton. North of Portland, Oregon, U.S.A.

OCTOBER 11 at 11 54 48 U.T. Magnitude 3.5. Epicentre at 46.0N, 122.2W. Northeast of Portland, Oregon, U.S.A. Q:b.

OCTOBER 11 at 12 48 15 U.T. Magnitude 3.1. 418 km from Penticton. Aftershock of previous Portland, Oregon tremor?

OCTOBER 12 at 05 17 14 U.T. Magnitude 2.3. Epicentre at 48.0N, 123.6W. Southwest of Port Angeles, Washington, U.S.A. Q:b.

OCTOBER 27 at 07 34 59.5 U.T. Magnitude 1.7. 88 km from Penticton.

OCTOBER 28 at 19 55 23.2 U.T. Magnitude 2.2. 60 km from Alberni.

OCTOBER 29 at 01 47 33.6 U.T. Magnitude 2.7. 150 km from Penticton.

OCTOBER 29 at 23 40 56.9 U.T. Magnitude 2.2. 53 km from Alberni.

DOMINION OBSERVATORIES

NOVEMBER 1 at 06 34 02 U.T. Magnitude 1.7. Epicentre at 48°42'N, 123°12'W. Gulf Islands. Q:b.

NOVEMBER 1 at 08 37 23 U.T. Magnitude 3.0. Epicentre at 47.1N, 126.4W. Off coast of Washington, U.S.A. Q:c.

NOVEMBER 1 at 16 12 41 U.T. Magnitude 1.0. 30 km from Penticton.

NOVEMBER 2 at 00 01 40 U.T. Magnitude 0.6. 20 km from Victoria.

NOVEMBER 2 at 22 25 29 U.T. Magnitude 2.0. Epicentre at 48°28'N, 123°52'W. Southern Vancouver Island. Q:c.

NOVEMBER 4 at 00 29 14 U.T. Magnitude 1.5. Epicentre at 49.1N, 120.6W. Near Copper Mountain? Q:c.

NOVEMBER 5 at 02 08 21 U.T. Magnitude 2. Epicentre at 49°41'N, 124°30'W. Texada Island blast? Q:b.

NOVEMBER 5 at 03 07 31 U.T. Magnitude 1.8. 135 km from Penticton.

NOVEMBER 7 at 00 57 08 U.T. Magnitude 1.7. 140 km from Penticton.

NOVEMBER 8 at 11 00 15 U.T. Magnitude 0.7. 18 km from Banff.

NOVEMBER 8 at 11 36 27.2 U.T. Magnitude 4.9. Near coast of Oregon, U.S.A.

NOVEMBER 9 at 00 41 44 U.T. Magnitude 1.9. 144 km from Penticton.

NOVEMBER 10 at 19 38 55 U.T. Magnitude 0.9. 30 km from Penticton.

NOVEMBER 14 at 08 03 07 U.T. Magnitude 2.5. 192 km from Penticton.

NOVEMBER 14 at 10 25 04 U.T. Magnitude 1.9. 150 km from Penticton.

NOVEMBER 15 at 20 28 25 U.T. Magnitude 2.0. 229 km from Penticton.

NOVEMBER 15 at 22 32 41 U.T. Magnitude 1.8. 132 km from Penticton.

SEISMOLOGICAL BULLETIN - 1960

NOVEMBER 15 at 23 25 07 U.T. Magnitude 1.7. 152 km from Penticton.

NOVEMBER 16 at 23 55 53 U.T. Magniude 1.7. 174 km from Penticton.

NOVEMBER 17 at 00 48 46 U.T. Magnitude 1.9. Epicentre at 49.0N, 121.5W. South of Hope, B.C. Q:c.

NOVEMBER 17 at 12 41 20 U.T. Magnitude 1.4. 118 km from Penticton.

NOVEMBER 19 at 00 45 30 U.T. Magnitude 1.9. 140 km from Penticton.

NOVEMBER 19 at 06 38 30 U.T. Magnitude 2.1. 76 km from Alberni.

NOVEMBER 19 at 15 00 56 U.T. Magnitude 1.3. 131 km from Penticton.

NOVEMBER 19 at 19 52 02 U.T. Magnitude 2.5. 276 km from Penticton.

NOVEMBER 20 at 00 23 16 U.T. Magnitude 2.0. 168 km from Penticton.

NOVEMBER 21 at 00 55 05 U.T. Magnitude 1.8. 142 km from Penticton.

NOVEMBER 22 at 23 54 21 U.T. Magnitude 2.1. 178 km from Penticton.

NOVEMBER 23 at 00 51 32 U.T. Magnitude 1.8. 155 km from Penticton.

NOVEMBER 23 at 17 09 09 U.T. Magnitude 2.0. 168 km from Penticton.

NOVEMBER 25 at 00 54 09 U.T. Magnitude 1.9. 151 km from Penticton.

NOVEMBER 27 at 21 54 09 U.T. Magnitude 1.8. 155 km from Penticton.

NOVEMBER 28 at 11 24 51 U.T. Magnitude 1.5. 104 km from Penticton.

DOMINION OBSERVATORIES

DECEMBER 1 at 20 45 03 U.T. Magnitude 3.6. Epicentre at 49.4N, 129.3W. Off west coast of Vancouver Island. Q:b.

DECEMBER 1 at 20 49 45.5 U.T. Magnitude 6. Epicentre at 48.5N, 129.1W. Off coast of Vancouver Island. Q:b.

DECEMBER 1 at 21 05 21 U.T. Magnitude 2.3. Epicentre at 48°11'N, 124°53'W. Off coast of Washington, Q:b.

DECEMBER 1 at 21 18 49 U.T. Magnitude 3.3. Epicentre at 48.5N, 129.2W. Off west coast of Vancouver Island. Q:c.

DECEMBER 1 at 21 49 37.2 U.T. Magnitude 3.8. Epicentre at 48.7N, 129.2W. Near coast of Vancouver Island. Q:b.

DECEMBER 1 at 21 57 43 U.T. Magnitude 3.4. Epicentre at 48.9N, 129.2W. 432 km from Victoria and 324 km from Alberni. Q:c.

DECEMBER 1 at 22 05 30 U.T. Magnitude 3.7. Epicentre at 48.5N, 129.2W. 427 km from Victoria and 329 km from Alberni. Q:c.

DECEMBER 1 at 22 33 53 U.T. Magnitude 3.2. Epicentre at 49N, 129W. 444 km from Victoria and 330 km from Alberni. Q:c-.

DECEMBER 1 at 22 54 55 U.T. Magnitude 3.5. 429 km from Victoria and 329 km from Alberni. Off the coast of Vancouver Island. Q:c.

DECEMBER 3 at 15 51 31 U.T. Magnitude 2.5. 88 km from Alberni.

DECEMBER 3 at 22 26 08 U.T. Magnitude 3.8. Epicentre at 45.8N, 125.0W. Off coast of Oregon, Washington, U.S.A. Q:c.

DECEMBER 5 at 13 33 50 U.T. Magnitude 2.0. 47 km from Alberni.

DECEMBER 5 at 15 38 46 U.T. Magnitude 1.5. 43 km from Victoria.

DECEMBER 5 at 20 37 15 U.T. Magnitude 1.8. 106 km from Penticton.

DECEMBER 7 at 00 42 03 U.T. Magnitude 1.9. 160 km from Penticton.

DECEMBER 8 at 02 30 10 U.T. Magnitude 2.6. Epicentre at 49°44'N, 123°28'W. Texada Island? Q:c.

DECEMBER 9 at 11 24 29 Very near Penticton station.

DECEMBER 10 at 23 49 03 U.T. Magnitude 1.8. Epicentre at 49°36'N, 124°30'W. Texada Island. Q:c.

DECEMBER 11 at 18 58 40.5 U.T. Magnitude 3.8. Epicentre at 48.9N, 129.7W. Vancouver Island region.

DECEMBER 11 at 19 07 55 U.T. Magnitude 3.7. Epicentre at 48.9N, 129.7W. 360 km from Alberni and 743 km from Penticton. Q:c.

DECEMBER 11 at 21 44 15 U.T. Magnitude 2.0. 142 km from Penticton.

DECEMBER 16 at 00 22 37 U.T. Magnitude 1.9. 168 km from Penticton.

DECEMBER 16 at 00 44 34 U.T. Magnitude 1.8. 159 km from Penticton.

DECEMBER 16 at 21 05 21 U.T. Magnitude less than 1. 58 km from Victoria.

DECEMBER 16 at 23 56 40 U.T. Magnitude 3.0. 368 km from Penticton.

DECEMBER 17 at 07 34 15 U.T. Magnitude 2.7. 262 km from Penticton.

DECEMBER 17 at 09 48 19 U.T. Magnitude 2.4. 263 km from Penticton.

DECEMBER 17 at 14 06 34 U.T. Magnitude 1.5. 112 km from Penticton.

DECEMBER 17 at 23 32 53 U.T. Magnitude 2.0. Epicentre at 48.9N, 122W. Near Mount Baker.

DECEMBER 21 at 11 22 21 U.T. Magnitude 2.4. 262 km from Penticton.

DECEMBER 22 at 11 41 21 U.T. Magnitude 3.8. Epicentre at 44N, 125W. Off coast of Oregon, U.S.A. Q:c-.

DECEMBER 22 at 23 59 17 U.T. Magnitude 2.0. 172 km from Penticton.

DECEMBER 23 at 00 34 35 U.T. Magnitude 0.8. 26 km from Penticton.

DECEMBER 23 at 00 48 25 U.T. Magnitude 0.6. 26 km from Penticton.

DOMINION OBSERVATORIES

DECEMBER 23 at 02 07 43 U.T. Magnitude 2.5. 278 km from Penticton.

DECEMBER 23 at 16 29 43 U.T. Magnitude 2.5. 285 km from Penticton.

DECEMBER 24 at 03 22 18 U.T. Magnitude 2.3. 259 km from Penticton.

DECEMBER 24 at 08 09 50 U.T. Magnitude 2.1. 201 km from Penticton.

DECEMBER 24 at 17 47 58 U.T. Magnitude 1.6. Epicentre at 48° 31'N, 123°58'W. Lower Vancouver Island. Q:b.

DECEMBER 24 at 18 50 16 U.T. Magnitude 2.1. Epicentre at 48° 47'N, 122°32'W. Widbey Island. Q:b-.

DECEMBER 25 at 04 23 01 U.T. Magnitude 2.1. 258 km from Penticton.

DECEMBER 25 at 06 37 51 U.T. Magnitude 2.4. 261 km from Penticton.

DECEMBER 26 at 14 49 06 U.T. Magnitude 1.7. 117 km from Penticton.

DECEMBER 30 at 17 30 10 U.T. Magnitude 0.5. 22 km from Penticton.

DECEMBER 30 at 22 08 19 U.T. Magnitude 0.6. 20 km from Penticton.

DECEMBER 30 at 22 54 30 U.T. Magnitude 2.0. 161 km from Penticton.

DECEMBER 31 at 21 06 25 U.T. Magnitude 2.0. 179 km from Penticton.

DECEMBER 31 at 21 46 31 U.T. Magnitude 2.2. 211 km from Penticton.

DECEMBER 31 at 22 23 03 U.T. Magnitude 2.2. 215 km from Penticton.