Dr. J.

SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

Seismological Bulletin
January - March
1959

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

SEISMOLOGICAL BULLETIN - 1959

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.

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

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

John H. Hodgson,
Chief, Division of Seismology.

Explanation of Calibration Curves

Calibration curves for all the seismographs of the Canadian network have now been determined using a bridge circuit developed by this Observatory (see P.L. Willmore, "The Application of the Maxwell 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.

DOMINION OBSERVATORIES

NOTES

JANUARY - MARCH - 1959

1. Ottawa Ontario — The short period Vertical Benioff seismograph was recalibrated on March 25, 1959 and calibration curves will be found on page 10.

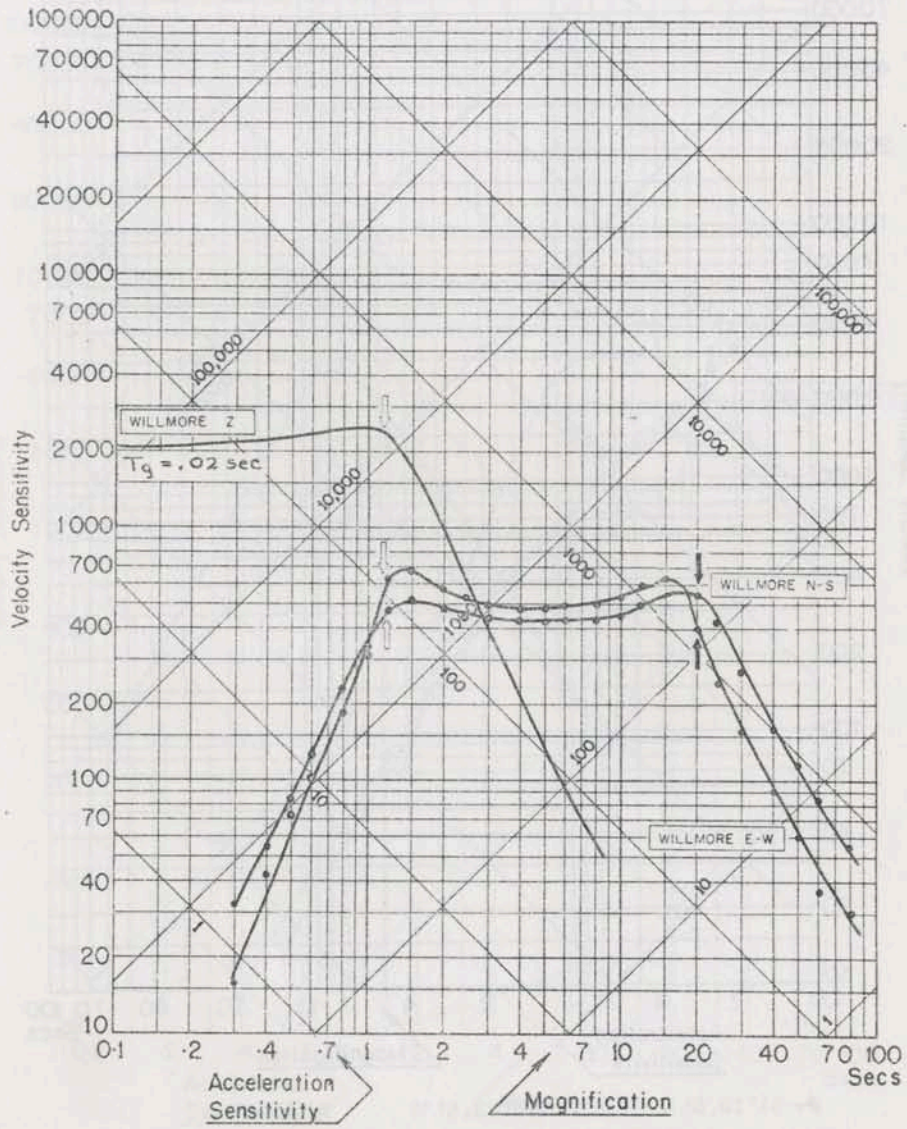
2. Canadian earthquakes may be found on pages 68 to 72.

3. I. G. Y. Microseismic Bulletin may be found on pages 73 to 88.

4. Calibration curves for all existing Canadian Seismograph Stations may be found on pages 5 to 16.

CALIBRATION CURVES

STATION: ALBERNI



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

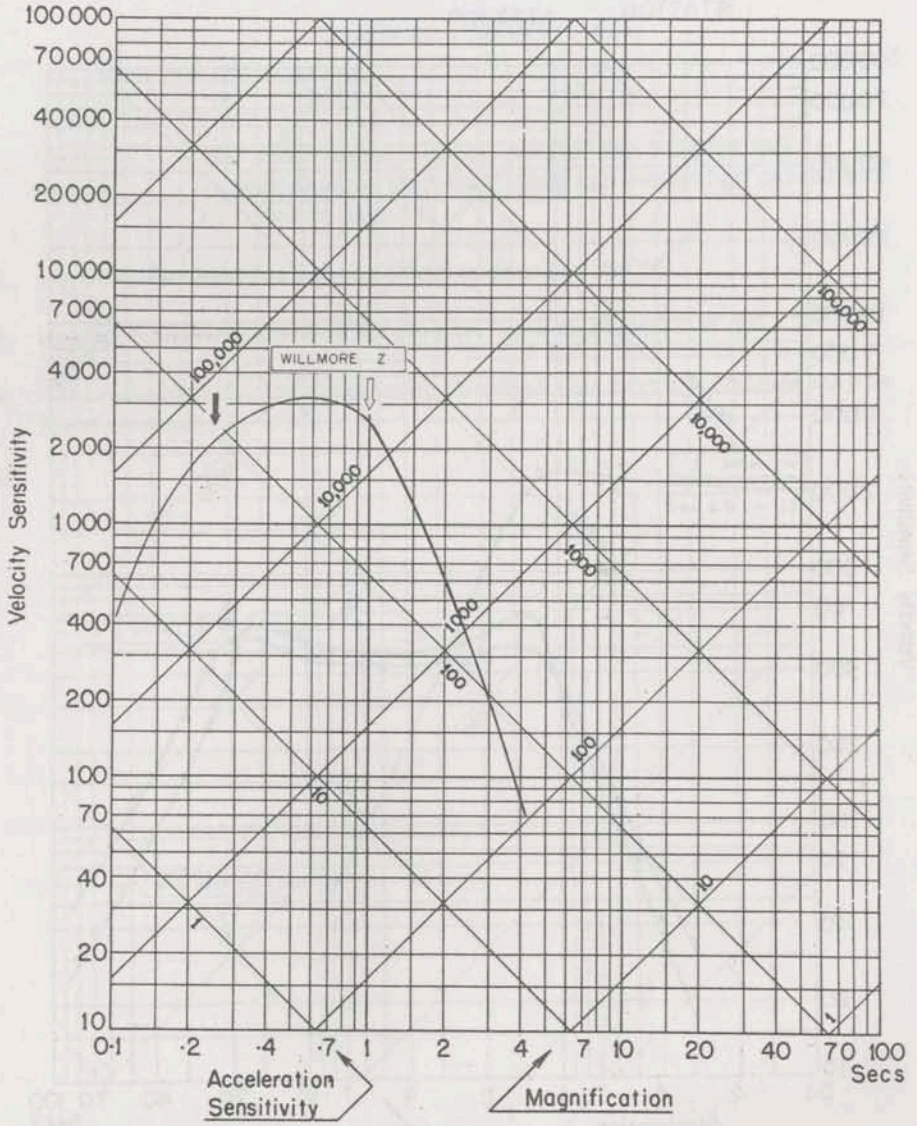
Foundation : Basic volcanic rock

T_s ⇧ T_g ⇧

Date of Calibration: July 9 1957

Read from start of minute mark.

STATION: BANFF



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

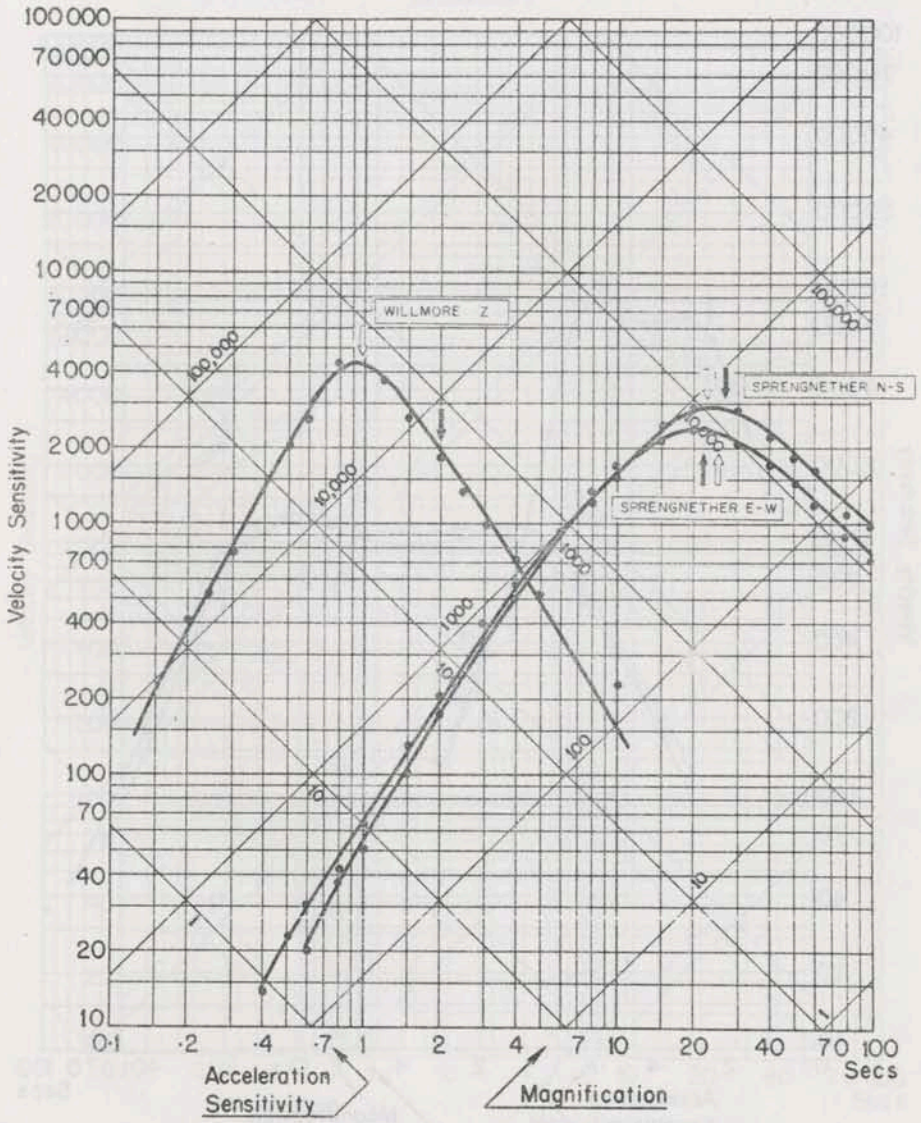
Foundation : Bedrock

T_s ⇧ T_g ⇧

Date of Calibration: Estimated Curve

CALIBRATION CURVES

STATION: HALIFAX



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

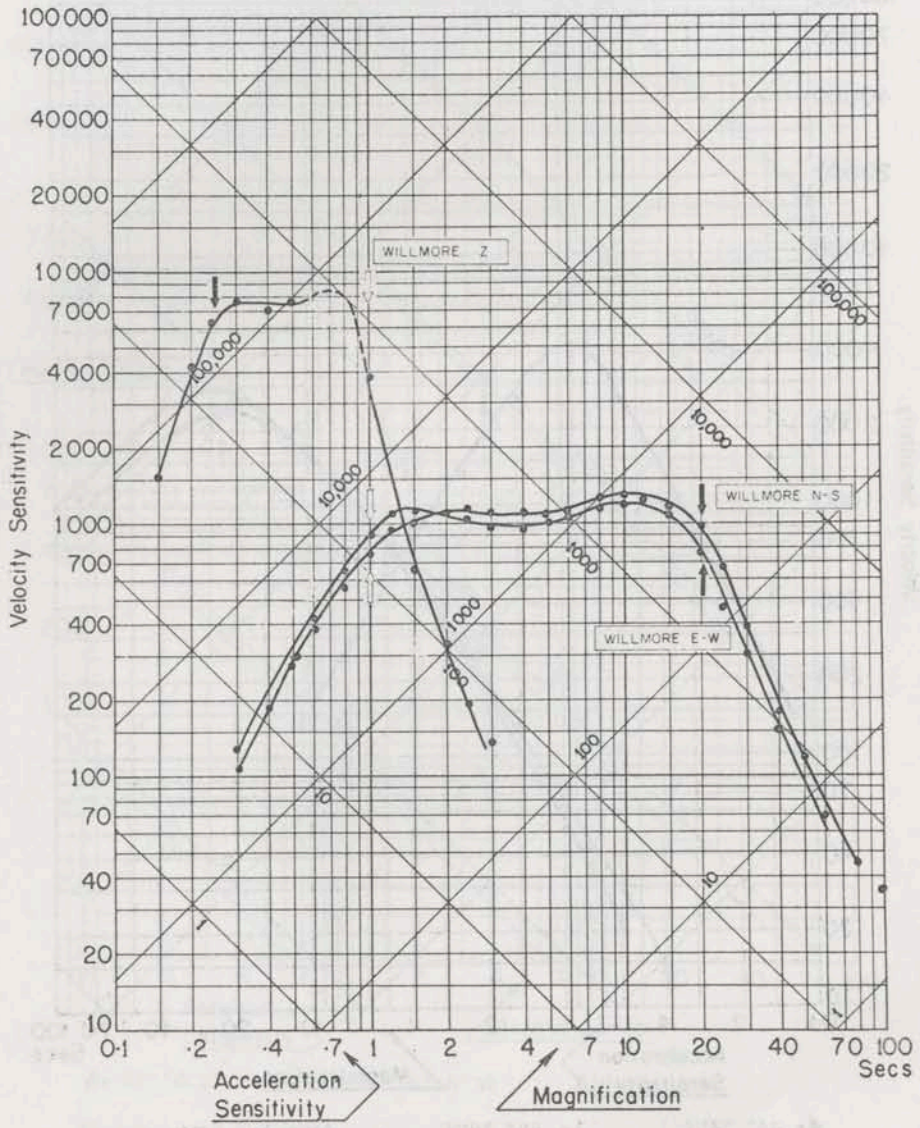
Foundation : Carbonaceous slate

T_s ⇧ T_g ⇧

Date of Calibration: December 1956 - Spreng's
December 1957 - Willmore

CALIBRATION CURVES

STATION: HORSESHOE BAY



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

Foundation : Quartz diorite

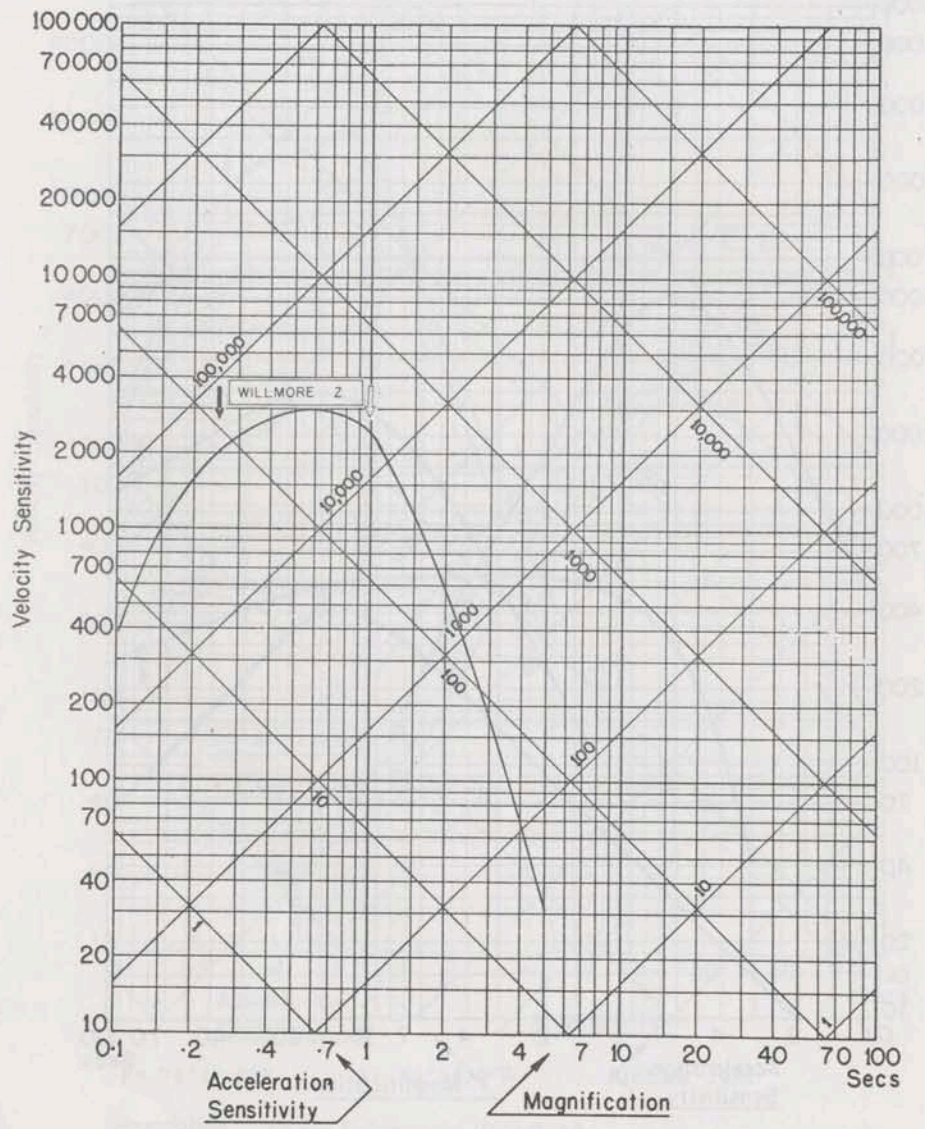
T_s ⇧ T_g ⇧

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

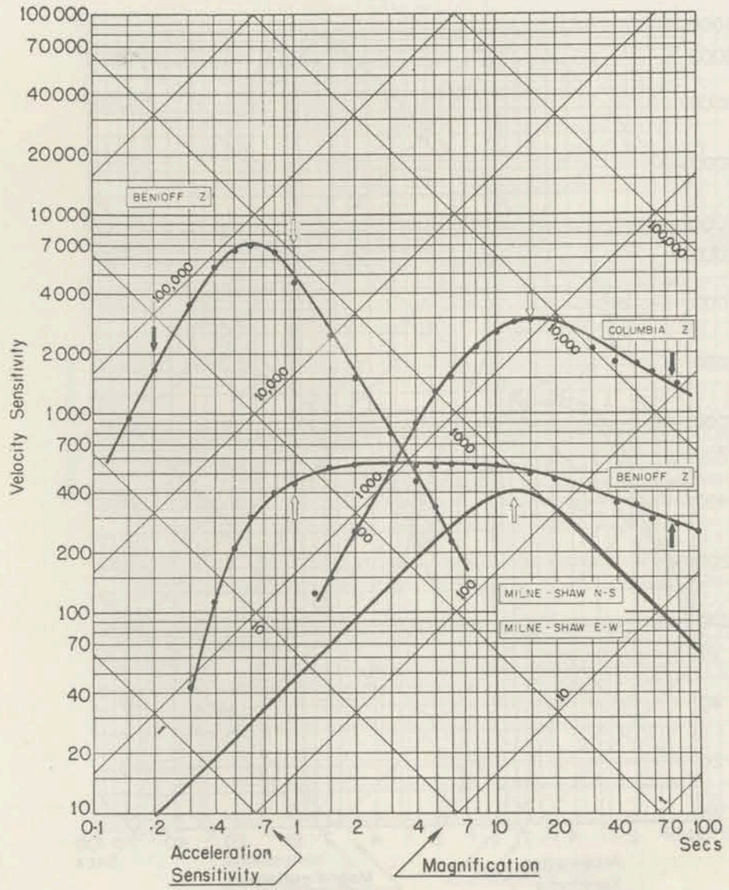
T_s ⇧ T_g ⇧

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

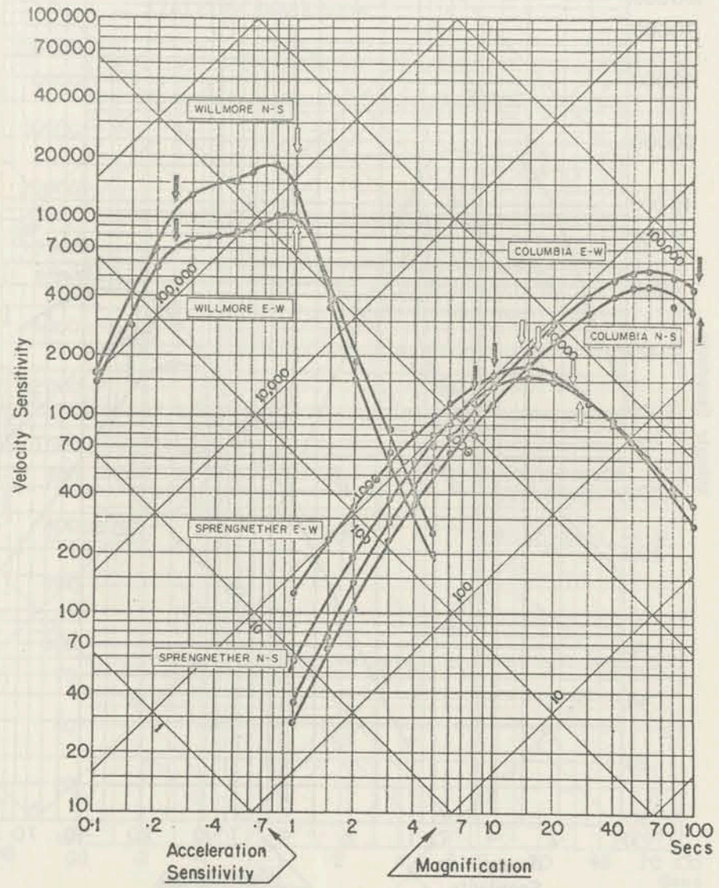
T_s ⇧ T_g ⇧

Date of Calibration: Benioff SPZ - March 25/59
Benioff LPZ - May 28/58
Columbia LPZ - December 12/56

Read from end of minute mark.

CALIBRATION CURVES

STATION: RESOLUTE (Horizontals)



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

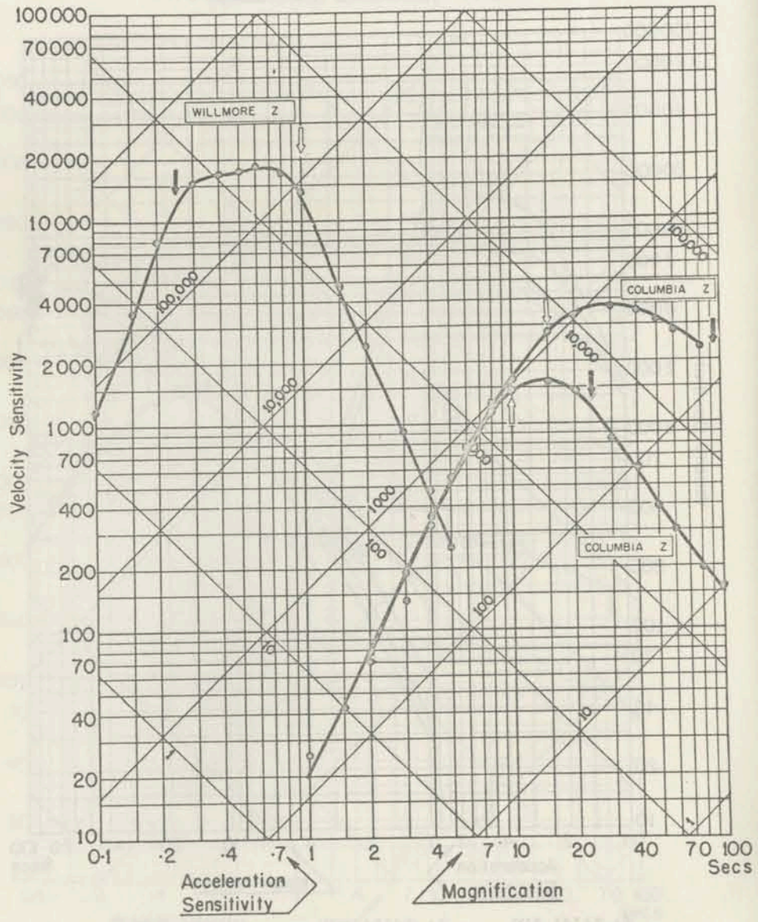
Foundation : Early Palaeozoic limestone

T_s ⇧ T_g ⇧

Date of Calibration: Aug.-Sept. 1958

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

STATION: RESOLUTE (Verticals)



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

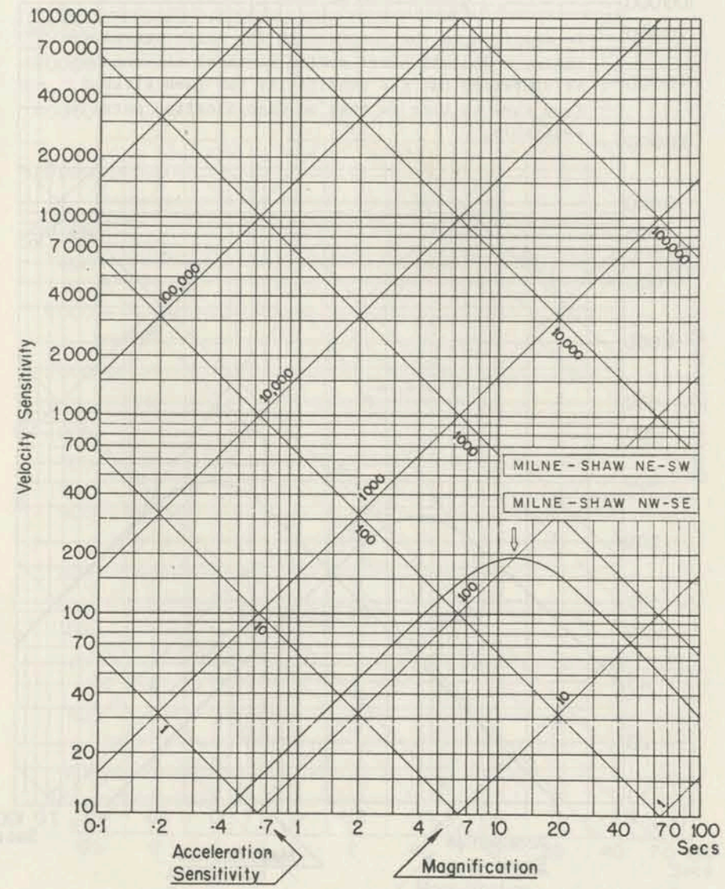
Foundation : Early Palaeozoic limestone

T_s ⇧ T_g ⇧

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

CALIBRATION CURVES

STATION: SASKATOON



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

Foundation : Clay and Sand

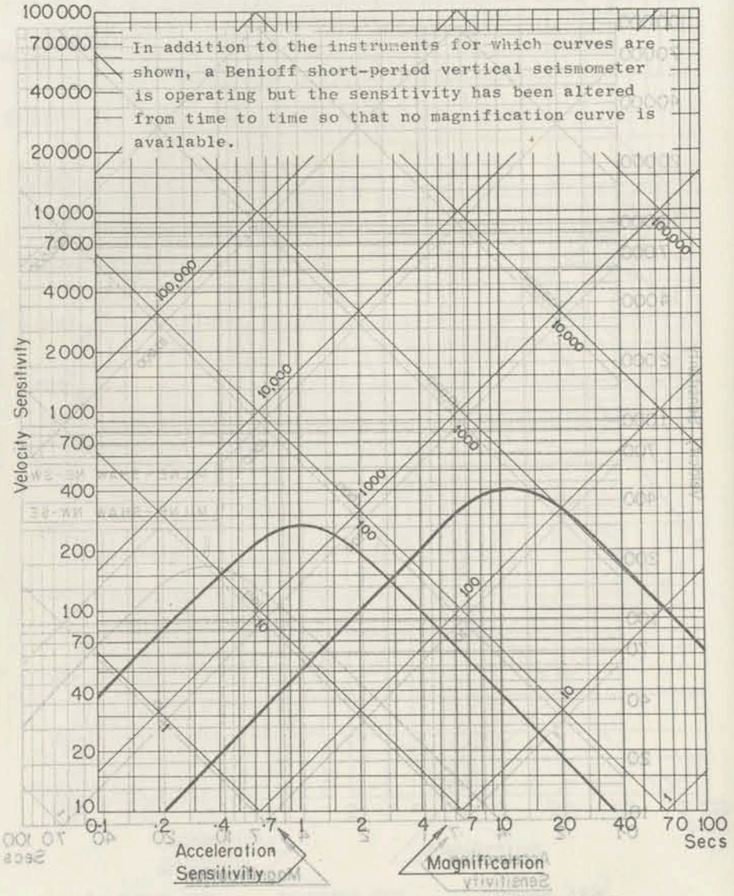
T_s ⇧ T_g ⇧

Date of Calibration: -

Read from start of minute mark.

CALIBRATION CURVES

STATION: SEVEN FALLS



In addition to the instruments for which curves are shown, a Benioff short-period vertical seismometer is operating but the sensitivity has been altered from time to time so that no magnification curve is available.

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

Foundation : Precambrian basement rock

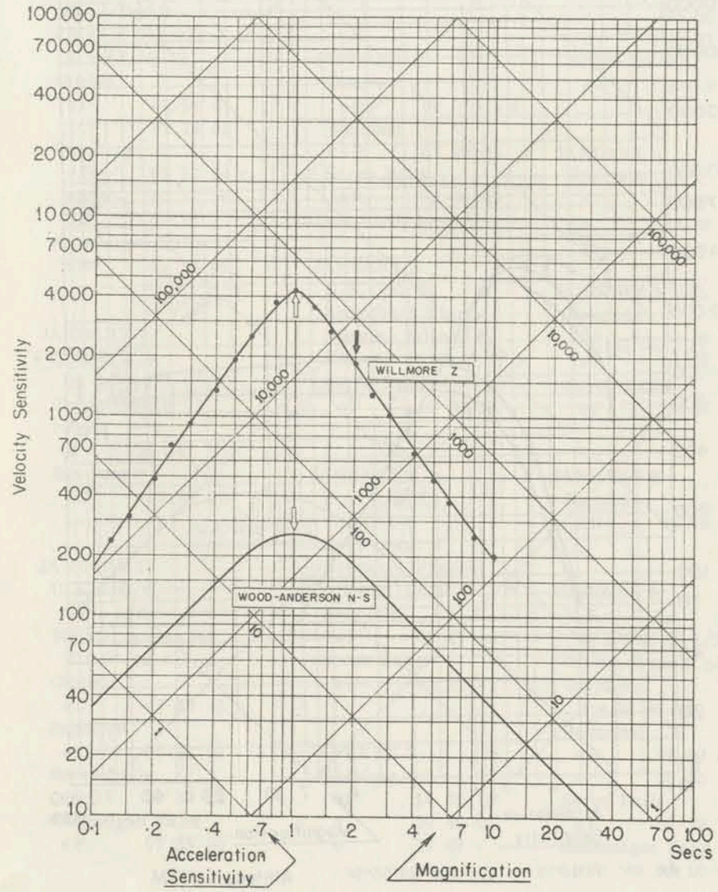
T_s ⇧ ⇧ T_g

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 60m

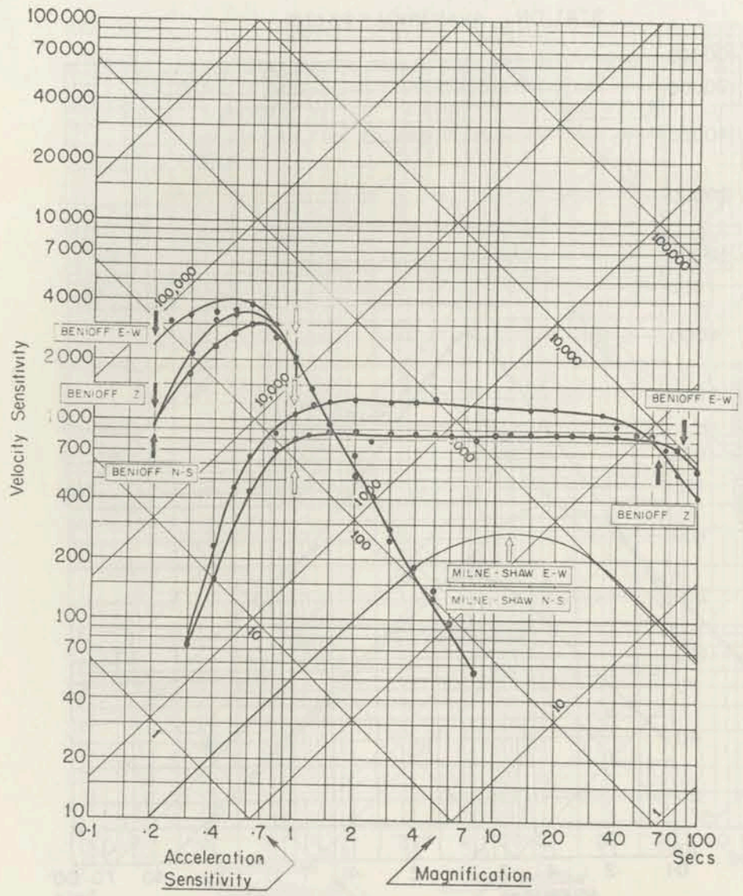
Foundation : Precambrian basement

T_s ⇧ ⇧ T_g

Date of Calibration: December 10th, 1956.

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.

SEISMOLOGICAL BULLETIN - 1959

JANUARY 1
U.S.C.G.S.
83 1/2N, 8W
Off northeast coast of Greenland
H = 02 06 42
Ottawa
eP 02 14 47
i 02 14 53
Resolute
eP 02 10 34 c
eS 02 13 36
eL 02 14
Shawinigan Falls
eP 02 14 41

JANUARY 1
U.S.C.G.S.
18 1/2S, 175 1/2W
Tonga Islands region
H = 07 26 07
Resolute
PS 07 54 02

JANUARY 1
U.S.C.G.S.
35N, 29E
Mediterranean Sea
H = 07 48 01
Ottawa
eP 07 59 45
Resolute
eP 07 58 39
Seven Falls
eP 07 59 22
Shawinigan Falls
eP 07 59 30

JANUARY 1
Resolute
eP 13 17 01

JANUARY 1
Resolute
eP 14 40 27

JANUARY 2
Ottawa
eP 02 06 15 d
Resolute
eP 02 09 24
Seven Falls
eP 02 06 39

JANUARY 2
U.S.C.G.S.
Andreanof Islands
Aleutian Islands
H = 03 15 40
Seven Falls
eP 03 26 16

JANUARY 2
U.S.C.G.S.
48N, 4W
Near coast of Brittany, France
H = 05 19 36
Resolute
eP 05 27 55
Seven Falls
eP 05 27 47

JANUARY 2
Resolute
eP 10 29 12
e 10 46 27
e 10 49 -

JANUARY 2
Resolute
eP 12 07 39

JANUARY 2
Ottawa
eP 20 11 34
Resolute
eP 20 14 42 (c)
e 20 22 (13)
e 20 23 (18)
e 20 37 30
Seven Falls
eP 20 11 59

JANUARY 2
Resolute
eP 22 34 35
e 22 38 39

JANUARY 3
Resolute
eP 04 28 52.5
eP 04 28 53 d
Seven Falls
eP 04 26 12

JANUARY 3
Resolute
eP 05 50 35

JANUARY 3
U.S.C.G.S.
35 1/2N, 29 1/2E
Off south coast of Turkey
H = 07 59 12
Resolute
eP 08 09 51 (c)
e 08 35 -
Seven Falls
eP 08 10 31
Shawinigan Falls
eP 08 10 42

JANUARY 3
U.S.C.G.S.
14 1/2S, 75 1/2W
Near coast of Peru
H = 11 17 38
Ottawa
iP 11 27 48 d

DOMINION OBSERVATORIES

Resolute
iP 11 30 41 c
eS 11 41 30
SS 11 47 24
SSS 11 51 12
Seven Falls
eP 11 28 02
Shawinigan Falls
eP 11 27 57

JANUARY 3
Canadian Arctic
H = 12 43 23.9
h = 19 km
Mag 2.5
Resolute
eP_n 12 43 57.5 d
iP_1 12 44 01.2
iS_n 12 44 22.9
iS_1 12 44 29.6
D = 232 km

JANUARY 4
Resolute
eP 01 31 07

JANUARY 4
U.S.C.G.S.
10S, 111 1/2E
South of Java
H = 03 16 36
Ottawa
iP' 03 36 14 c

JANUARY 4
Resolute
iP 07 17 04 c

JANUARY 4
U.S.C.G.S.
46 1/2N, 151 E
Kurile Islands
H = 07 56 27
h = 100 km

Ottawa
iP 08 08 27 d
Resolute
iP 08 05 27 d
P_cP 08 06 38.5

JANUARY 4
Resolute
eP 11 43 51

JANUARY 4
Resolute
iP 12 30 21.5 c

JANUARY 4
Resolute
eP 18 16 37

JANUARY 4
U.S.C.G.S.
35N, 28E
Mediterranean Sea
H = 23 14 38
Resolute
eP 23 25 18
Shawinigan Falls
eP 23 26 08

JANUARY 4
Resolute
eP 23 33 05

JANUARY 5
Resolute
eP 00 47 20
iP 00 47 33 (c)

JANUARY 5
U.S.C.G.S.
11 1/2N, 141 E
Mariana Islands region
H = 02 37 28
h = 200 km
Resolute
eP 02 50 00

JANUARY 5
Resolute
iP 05 01 15 c

JANUARY 5
Resolute
eP 08 30 14
e 08 42 54
e 08 44 35
e 08 59 17

JANUARY 5
U.S.C.G.S.
7S, 156 1/2E
Solomon Islands
H = 09 35 13
h = 100 km
Resolute
iP 09 48 29.5 c

JANUARY 5
U.S.C.G.S.
22S, 171 1/2E
Loyalty Islands region
H = 09 46 42
Mag 6 1/2 - 6 3/4
Alberni
iP 09 59 51 (d)
Horseshoe Bay
iP 09 59 54 c
Ottawa
eP' 10 05 37
Resolute
eP 10 01 27 c
P' 10 05 17
PP 10 06 02
e 10 15 50
(PKKP) 10 16 20

Seven Falls
eP' 10 05 44
Shawinigan Falls
eP' 10 05 42
PP 10 07 17
Victoria
iP 09 59 51 c, S, W

JANUARY 5
U.S.C.G.S.
36N, 118W
Inyo County, California
H = 12 36 02
Mag 4 1/2 - 4 3/4
Resolute
eP 12 43 40 (c)

JANUARY 5
Resolute
eP 12 47 28 (c)

JANUARY 5
Resolute
eP 18 36 07

JANUARY 5
Resolute
eP 20 03 31

JANUARY 5
Resolute
eP 22 15 28

JANUARY 6
Resolute
eP 00 33 21

JANUARY 6
Resolute
eP 00 54 09 (c)

JANUARY 6
Resolute
eP 01 33 13

JANUARY 6
Resolute
eP 04 16 44 c
e 04 18 08

JANUARY 6
Resolute
eP 04 35 31 d

JANUARY 6
Resolute
eP 04 52 47 (d)
e 04 56 39

JANUARY 6
Resolute
eP 06 11 50

JANUARY 6
Resolute
eP 10 19 21

JANUARY 6
U.S.C.G.S.
29N, 139 1/2E
Bonin Islands region
H = 10 39 08
h = 450 km
Resolute
eP 10 49 43 d
iP 10 49 43.5 c

JANUARY 6
U.S.C.G.S.
6 1/2S, 155E
Solomon Islands
H = 11 53 39
h = 150 km

Resolute
PP 12 11 41
Shawinigan Falls
eP' 12 12 24

JANUARY 6
U.S.C.G.S.
52N, 168W
Fox Islands,
Aleutian Islands
H = 12 05 40
Ottawa
eP 12 15 30
Resolute
eP 12 12 47.5 d
iP 12 12 48 c
P_cP 12 15 11
Seven Falls
eP 12 15 38
Shawinigan Falls
eP 12 15 36

JANUARY 6
U.S.C.G.S.
47 1/2N, 153 1/2E
Kurile Islands
H = 12 29 45
Resolute
iP 12 38 41 c

JANUARY 6
Resolute
iP 14 39 04 c

JANUARY 6
U.S.C.G.S.
7 1/2S, 105 1/2E
South of Java
H = 14 48 03
Resolute
PP 15 06 40

JANUARY 6
Resolute
eP 15 37 40

DOMINION OBSERVATORIES

JANUARY 6
Resolute
eP 20 09 26

JANUARY 6
Resolute
eP 22 06 38

JANUARY 7
Resolute
eP 00 02 17

JANUARY 7
Resolute
iP 00 21 59

JANUARY 7
Resolute
eP 03 15 -
eP 03 18 58

JANUARY 7
U.S.C.G.S.
26 1/2N, 54E
Near coast of
Iran
H = 05 13 01
Resolute
eP 05 24 58
Seven Falls
eP 05 26 11
Shawinigan Falls
eP 05 26 43

JANUARY 7
Resolute
eP 06 35 41

JANUARY 7
Resolute
eP 06 42 48

JANUARY 7
Resolute
eP 08 21 28

JANUARY 7
Resolute
eP 08 21 28

JANUARY 7
Resolute
iP 18 12 44 (c)

JANUARY 7
Resolute
iP 20 46 23.5 c

JANUARY 7
U.S.C.G.S.
37N, 29 1/2E
Southwestern Turkey
H = 22 21 55
Resolute
iP 22 32 25 c

JANUARY 7
Resolute
eP 23 48 39

JANUARY 8
U.S.C.G.S.
15 1/2N, 61W
Windward Islands
H = 01 33 48
h = 100 km
Mag 6 1/2 - 6 3/4
Alberni
eP 01 43 59
Ottawa
iP 01 40 16 c
T 01 47 06
Resolute
iP 01 44 04 c
iS 01 52 18
PKKP 02 02 48

Seven Falls
eP 01 40 19 c
T 01 47 14
Shawinigan Falls
iP 01 40 19
T 01 47 24
Victoria
iP 01 43 52 d,S,E

JANUARY 8
Resolute
iP 05 47 41 c

JANUARY 8
Resolute
iP 07 53 34.5 c

JANUARY 8
Resolute
eP 15 03 04

JANUARY 8
U.S.C.G.S.
Pacific Ocean
H = 15 54 41
Ottawa
iP 16 03 24
Resolute
eP 16 06 09
iP 16 06 10 c
Seven Falls
eP 16 03 49
Shawinigan Falls
iP 16 03 40

JANUARY 8
Resolute
eP 19 42 38

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JANUARY 8
U.S.C.G.S.
4 1/2S, 138 1/2E
New Guinea
H = 22 36 08
Resolute
eP 22 50 14
PP 22 54 35

JANUARY 8
Resolute
iP 23 57 04

JANUARY 9
U.S.C.G.S.
36N, 21E
Near south coast
of Greece
H = 01 55 05
Ottawa
eP 02 06 18
Resolute
eP 02 05 25
Seven Falls
eP 02 05 54
i 02 06 04
Shawinigan Falls
eP 02 06 03

JANUARY 9
Resolute
eP 02 14 48 d

JANUARY 9
Resolute
eP 04 56 46

JANUARY 9
Resolute
eP 06 44 45

JANUARY 9
Resolute
eP 11 36 48

JANUARY 9
Resolute
eP 12 19 55

JANUARY 9
Resolute
eP 14 35 13
iP 14 35 15 c

JANUARY 9
Resolute
iP 15 28 44.8 c
iP 15 28 45 d
e 15 35 00

JANUARY 9
Resolute
eP 18 19 19

JANUARY 9
Resolute
eP 18 25 20

JANUARY 9
Resolute
eP 19 45 52

JANUARY 9
U.S.C.G.S.
14N, 90 1/2W
Guatemala
H = 20 52 07
h = 150 km
Resolute
iP 21 02 08 c
Shawinigan Falls
iP 20 58 58

JANUARY 10
Resolute
eP 01 25 08

JANUARY 10
Resolute
eP 02 46 32

JANUARY 10
Resolute
eP 06 33 05

JANUARY 10
Resolute
iP 07 35 28 d

JANUARY 10
Resolute
eP 16 43 14

JANUARY 10
Resolute
eP 21 58 01

JANUARY 10
Resolute
eP 22 05 17

JANUARY 11
U.S.C.G.S.
36 1/2N, 29E
Near south coast of
Turkey
H = 04 27 23
Resolute
iP 04 37 54 d
Seven Falls
eP 04 38 39

DOMINION OBSERVATORIES

JANUARY 11
U.S.C.G.S.
15N, 90W
Guatemala
H = 07 22 40
h = 200 km
Alberni
eP 07 30 37
Halifax
iP 07 29 40 c
ipP 07 30 22
Horseshoe Bay
iP 07 30 31 d
i 07 30 42
Ottawa
iP 07 29 02 c
S 07 34 07
Resolute
iP 07 32 29 c
pP 07 33 18
sP 07 33 40
S 07 40 24
sS 07 41 43
SS 07 44 20
SSS 07 47 12
Seven Falls
iP 07 29 29 c
Shawinigan Falls
iP 07 29 19 c
S 07 34 37
Victoria
eP 07 30 27

JANUARY 11
Resolute
eP 08 02 00

JANUARY 11
U.S.C.G.S.
Hokkaido, Japan
H = 08 37 39
Resolute
iP 08 47 27 c
e 08 51 28

JANUARY 11
Resolute
eP 12 46 23

JANUARY 11
U.S.C.G.S.
37N, 79E
Sinkiang Province
China
H = 16 43 46
Resolute
eP 16 54 52

JANUARY 11
Resolute
eP 20 38 52

JANUARY 12
U.S.C.G.S.
Northern Mariana
Islands
H = 12 26 27
Resolute
eP 12 38 24 c

JANUARY 12
U.S.C.G.S.
44N, 146E
Near north coast of
Hokkaido, Japan
H = 14 16 28
h = 100 km
Alberni
iP 14 26 17 d
Horseshoe Bay
iP 14 26 22 c
Ottawa
eP 14 28 50 c
Resolute
iP 14 25 51 c
P_cS 14 30 41
eS 14 33 20
Seven Falls
eP 14 28 50
Shawinigan Falls
eP 14 28 50

JANUARY 12
U.S.C.G.S.
14 1/2N, 145E
Mariana Islands
H = 17 41 29
h = 150 km
Resolute
eP 17 53 48
PP 17 56 40

JANUARY 12
Resolute
iP 19 45 43 c

JANUARY 13
U.S.C.G.S.
13 1/2N, 146E
Mariana Islands
H = 01 15 25
Mag 6 3/4
Resolute
iP 01 28 01 c
iS 01 38 20
SS 01 44 00
L 01 50 20

JANUARY 13
U.S.C.G.S.
53N, 167 1/2W
Fox Islands,
Aleutian Islands
H = 07 20 58
Ottawa
eP 07 30 39
Resolute
eP 07 27 55
P_cP 07 30 24
Seven Falls
eP 07 30 50
Shawinigan Falls
eP 07 30 49

JANUARY 13
U.S.C.G.S.
3S, 102E
Near south coast of
Sumatra
H = 07 33 43
h = 150 km
Resolute
eP' 07 52 01
sSS 08 08 24

JANUARY 13
U.S.C.G.S.
9N, 83 1/2W
Costa Rica region
H = 08 34 08
h = 100 km
Halifax
eG 08 52.0
Ottawa
eP 08 41 13
PPP 08 43 15
Resolute
eP 08 44 41
iP 08 44 51 c
eS 08 53 23
SS 08 58 00
Seven Falls
eP 08 41 30
Shawinigan Falls
eP 08 41 31

JANUARY 13
Resolute
eP 10 20 24

JANUARY 13
U.S.C.G.S.
45N, 149E
Kurile Islands
H = 14 31 57
Resolute
eP 14 41 21
iP 14 41 21.5 d
e 15 02 20
e 15 07 10

JANUARY 13
U.S.C.G.S.
16 1/2S, 71 1/2W
Southern Peru
H = 19 06 40
h = 150 km
Resolute
eP 19 19 38
(pPPP) 19 26 15
Seven Falls
iP 19 16 59 d
Shawinigan Falls
eP 19 16 56

JANUARY 13
U.S.C.G.S.
34 1/2S, 71W
Central Chile
H = 20 35 54
h = 100 km
Ottawa
eP 20 47 53
Resolute
eP' 20 54 26
SKS 21 01 30
P'P' 21 15 13
Seven Falls
eP 20 43 03
Shawinigan Falls
eP 20 47 59

JANUARY 14
Resolute
eP 04 37 31

JANUARY 14
U.S.C.G.S.
21S, 179W
Fiji Islands region
H = 13 17 39
h = 650 km
Resolute
PP 13 35 49

JANUARY 14
Resolute
eP 18 34 01

JANUARY 14
Resolute
eP 22 04 06

JANUARY 15
44.6°N, 129.5°W
Off coast of Oregon
H = 08 42 31
Mag 4.4
Alberni
iP 08 43 44.3 c
iS 08 44 49
D = 545 km
Horseshoe Bay
iP 08 43 52.9 c
D = 614 km
Victoria
iP 08 43 43.1 c,W,S
iS 08 44 49.7
D = 532.8 km

JANUARY 15
Resolute
eP 08 49 01

JANUARY 15
U.S.C.G.S.
27N, 128E
Ryukyu Islands
H = 15 39 12
Resolute
iP 15 50 57 c

JANUARY 15
Resolute
eP 16 54 (27)

DOMINION OBSERVATORIES

JANUARY 15
50.5°N, 128.9°W
Northwest of Vancouver Island
H = 19 16 10
Mag 4.2
Alberni
eP 19 16 55.3
D = 322 km
Horseshoe Bay
eP 19 17 09.9
D = 436 km
Victoria
eP 19 17 14.4
eS 19 18 14
D = 462 km

JANUARY 15
U.S.C.G.S.
25 1/2S, 180
South of Fiji Islands
H = 21 20 26
h = 500 km
Mag 6 1/2
Horseshoe Bay
eP 21 32 38
Ottawa
eP' 21 38 19
i 21 38 47
PP 21 39 38
i 21 41 09
Resolute
iP' 21 38 10 d
pPP 21 40 59
eS 21 46 18
SPP 21 49 24
SS 21 54 20
P'P' 21 57 56
Seven Falls
eP' 21 38 26
i 21 41 15
Shawinigan Falls
eP' 21 38 24 d
Victoria
eP 21 32 35

JANUARY 16
U.S.C.G.S.
36N, 118W
Inyo County, California
H = 00 10 05
Mag 4 3/4
Resolute
eP 00 17 43

JANUARY 16
U.S.C.G.S.
52N, 171W
Fox Islands, Aleutian Islands
H = 01 31 25
h = 60 km
Halifax
iP 01 42 06 d
e 01 49 32
eL 02 01.0
Ottawa
iP 01 41 21 c
PP 01 43 32
Resolute
iP 01 38 32
iP 01 38 33
P_cP 01 40 54
eS 01 44 24
eL 01 46
Seven Falls
eP 01 41 29
Shawinigan Falls
eP 01 41 25 c

JANUARY 16
Resolute
eP 06 08 44
e 06 10 28
e 06 11 05

JANUARY 16
Canadian Arctic
H = 07 48 02.2
Mag 1.5
Resolute
eP_1 07 48 12.3
iS_1 07 48 20.0
D = 63.2 km

JANUARY 16
Resolute
eP 07 52 40

JANUARY 16
U.S.C.G.S.
22S, 170E
Loyalty Islands
H = 10 51 52
Ottawa
eP' 11 10 51
Seven Falls
eP' 11 10 57

JANUARY 16
U.S.C.G.S.
52N, 131 1/2W
Queen Charlotte Islands
H = 16 50 40
H = 16 50 46 (Victoria)
Mag 5.4
Alberni
eP 16 51 57
eS 16 52 59
D = 536 km
Halifax
e 17 12.1
i 17 13 09
i 17 14 06
i 17 16 01
Horseshoe Bay
eP 16 52 14.4
eS 16 53 31
D = 620 km
Ottawa
eP 16 57 50
PP 16 59 12
PPP 16 59 35
e 17 09 12
i 17 09 52
Resolute
eP 16 56 27
iS 17 01 20
eL 17 04 20
Seven Falls
eP 16 58 07
e 16 59 31
PPP 16 59 56
L 17 10 35

Shawinigan Falls
eP 16 57 59
PP 16 59 21
e 17 09 57
Victoria
eP 16 52 13.5
eS 16 53 31
D = 664 km

JANUARY 17
Resolute
eP 03 04 31

JANUARY 17
Resolute
eP 08 42 26
iP 08 42 31 c
i 08 43 38

JANUARY 17
U.S.C.G.S.
10 1/2N, 126E
Near north coast of Mindanao, Philippine Islands
H = 09 24 35
Resolute
iP 09 37 45 c
iS 09 48 36

JANUARY 17
U.S.C.G.S.
45 1/2N, 153E
Kurile Islands
H = 10 17 19
Resolute
iP 10 26 30 c

JANUARY 17
Resolute
eP 15 52 05

JANUARY 17
Resolute
eP 20 42 33
e 20 44 08

JANUARY 17
Resolute
eP 21 09 03

JANUARY 18
Resolute
eP 01 16 12
e 01 18 51

JANUARY 18
U.S.C.G.S.
57 1/2N, 35W
Atlantic Ocean
H = 07 37 20
Resolute
eP 07 43 13
eL 07 52
Shawinigan Falls
eP 07 42 49

JANUARY 18
Resolute
eP 14 14 43

JANUARY 18
U.S.C.G.S.
5S, 152 1/2E
New Britain region
H = 14 41 06
Ottawa
eP' 15 00 04
Resolute
iP 14 54 59 c
PSPS 15 14 16
Seven Falls
eP' 15 00 08
Shawinigan Falls
eP' 15 00 07

JANUARY 18
U.S.C.G.S.
52N, 166 1/2W
Fox Islands, Aleutian Islands
H = 15 48 18
Ottawa
eP 15 58 00
Resolute
iP 15 55 20.5 c
eS 16 01 09
eL 16 04
Shawinigan Falls
eP 15 58 05

JANUARY 18
44N, 127 1/2W
Off coast of Oregon
H = 17 15 03
Mag 4.1
Alberni
eP 17 16 32
eS 17 17 35
D = 600 km
Horseshoe Bay
eP 17 16 36
eS 17 17 50
D = 660 km
Victoria
iP 17 16 24.9
eS 17 17 30.4
D = 570 km

JANUARY 18
Resolute
eP 17 43 22

JANUARY 18
U.S.C.G.S.
5S, 152 1/2E
New Britain region
H = 19 25 45
Ottawa
eP' 19 44 44
Resolute
eP 19 39 37

Seven Falls
eP' 19 44 48
Shawinigan Falls
eP' 19 44 47

JANUARY 18
U.S.C.G.S.
19S, 178W
Fiji Islands
H = 22 23 15
h = 450 km
Mag 6 1/4
Alberni
eP 22 34 55 (d)
Horseshoe Bay
iP 22 34 59 c
i 22 36 43
Ottawa
eP' 22 41 02
Resolute
eP' 22 40 50
eSKS 22 46.5
eS 22 48.0
Seven Falls
eP' 22 41 09
Shawinigan Falls
eP' 22 41 06
Victoria
iP 22 34 56 c

JANUARY 19
Resolute
eP 04 29 15

JANUARY 19
U.S.C.G.S.
30N, 132E
South of Kyushu, Japan
H = 08 12 46
Resolute
iP 08 24 07.5 d

JANUARY 19
Resolute
eP 10 10.8

JANUARY 19
Resolute
eP 10 25 15

JANUARY 19
Resolute
eP 13 04 27.5

JANUARY 19
Resolute
eP 13 11 03

JANUARY 19
Resolute
eP 19 07 27

JANUARY 19
U.S.C.G.S.
36.1N, 118W
Inyo County, California
H = 21 46 01
Mag 4 1/4 - 4 1/2
Resolute
eP 21 53 37

JANUARY 20
Resolute
eP 11 25 46

JANUARY 20
U.S.C.G.S.
9S, 126E
Timor Island
H = 16 46 11
Ottawa
eP' 17 05 41
Resolute
eP 17 00 48
ePP' 17 04 42
eS 17 31 -
PS 17 15.1
(PPS) 17 16.0

Seven Falls
eP' 17 05 39
SKP 17 09 13
Shawinigan Falls
eP' 17 05 43
SKP 17 09 13

JANUARY 20
Resolute
eP 20 51 17.5

JANUARY 21
Resolute
eP 10 12 49

JANUARY 21
U.S.C.G.S.
19N, 120E
Near north coast of
Luzon, Philippine
Islands
H = 11 08 10
Resolute
iP 11 20 43 d
eS 11 31 06
SS 11 36 33
L 11 43.2

JANUARY 21
Resolute
eP 12 21.2
e 12 24.2

JANUARY 21
Resolute
eP 13 13 12

JANUARY 21
Resolute
eP 13 17.2

JANUARY 21
Resolute
eP 13 32 43

JANUARY 21
Resolute
eP 14 10 30
e 14 21 00
e 14 27 20
e 14 31 26
e 14 34 30
e 14 38.0

JANUARY 22
U.S.C.G.S.
34N, 142E
Near coast of
Honshu, Japan
H = 05 10 25
Mag 6 3/4 - 7
Alberni
e 05 18 06
eS 05 29 37
Horseshoe Bay
eP 05 21 11
iS 05 29 54
i 05 31 05
Ottawa
eP 05 23 30
PP 05 27 08
S 05 34 20
PS 05 35 28
SS 05 40 24
SSS 05 44 16
G 05 47 00
Resolute
iP 05 20 47 c
e 05 20 47
iPPP 05 24 44
iS 05 29 12
S_cS 05 30 36
iL 05 36.2
Saskatoon
eP 05 22 01
iS 05 31 21

Seven Falls
eP 05 23 30
S 05 34 19
SS 05 40 34
e 05 41 16
SSS 05 44 05
G 05 46 49
Shawinigan Falls
eP 05 23 31
e 05 26 03
PP 05 27 34
e 05 34 24
S 05 34 35
Victoria
e 05 21 15
iP 05 21 17
iS 05 43 20

JANUARY 22
U.S.C.G.S.
4N, 132 1/2E
About 300 miles north-
east of Halmahera
H = 05 36 06
Ottawa
eP' 05 55 09
Resolute
eP 05 49 38
ePP 05 53.5
Seven Falls
eP' 05 55 10
Shawinigan Falls
eP' 05 55 10

JANUARY 22
U.S.C.G.S.
43 1/2N, 144 1/2E
Hokkaido, Japan
H = 07 33 14
Ottawa
eP 07 45 49
Resolute
eP 07 42 52.5 c
iP 07 42 53 d
Seven Falls
eP 07 45 53
Shawinigan Falls
eP 07 45 52

JANUARY 22
U.S.C.G.S.
38 1/2N, 142E
Near coast of
Honshu, Japan
H = 09 46 40
Ottawa
eP 09 59 38
Resolute
iP 09 56 55 c
iP 09 57 06 c
Seven Falls
eP 09 59 39
Shawinigan Falls
eP 09 59 39

JANUARY 22
U.S.C.G.S.
52N, 159E
Near east coast of
Kamchatka
H = 11 51 30
Resolute
eP 11 59 42.5 (c)
iP 11 59 43 d

JANUARY 22
U.S.C.G.S.
51N, 180
Andreanof Islands,
Aleutian Islands
H = 12 35 54
Resolute
eP 12 43 41

JANUARY 22
Resolute
iP 12 51 50 c

JANUARY 22
Resolute
eP 17 06 48

DOMINION OBSERVATORIES

JANUARY 22
Resolute
eP 18 04 55
e 18 36.0

JANUARY 22
Resolute
iP 22 08 10
e 22 15.0

JANUARY 22
Resolute
eP 23 59 23 (c)
eP 23 59 23.5 d
e 23 59 37

JANUARY 23
Resolute
eP 02 43 47

JANUARY 23
Resolute
eP 02 54.6
e 02 58.2

JANUARY 23
Resolute
iP 07 10 06 c
e 07 23.0
e 07 29 36
e 07 30 28

JANUARY 23
Resolute
eP 07 26 25
e 07 28 30

JANUARY 23
Resolute
eP 09 04 18

JANUARY 23
U.S.C.G.S.
16 1/2N, 47W
Atlantic Ocean
H = 10 20 57
Resolute
eP 10 31 33
e 10 39 11
e 10 46.5
e 10 48.6
Shawinigan Falls
eP 10 28 11

JANUARY 23
Resolute
iP 17 10 53 c
i 17 14 08 d

JANUARY 23
U.S.C.G.S.
55 1/2N, 160W
Alaska Peninsula
H = 18 52 11
Resolute
eP 18 58 34
e 19 01 26
e 19 01 40
Shawinigan Falls
eP 19 01 37

JANUARY 23
Resolute
eP 19 55 06

JANUARY 24
Resolute
eP 02 04 05

JANUARY 24
Resolute
eP 04 15 22

JANUARY 24
U.S.C.G.S.
37 1/2N, 141E
Near coast of
Honshu, Japan
H = 05 08 35
h = 100 km
Alberni
eP 05 19 12
Horseshoe Bay
eP 05 19 19
Ottawa
eP 05 21 36
Resolute
iP 05 18 51 c
ipP 05 19 12 c
eS 05 27 12
S_cS 05 28 38
SSS 05 34.2
Seven Falls
eP 05 21 36
e 05 21 58
Shawinigan Falls
eP 05 21 36 d
e 05 21 58
Victoria
eP 05 19 20

JANUARY 24
U.S.C.G.S.
1 1/2S, 116 1/2E
Near east coast of
Borneo
H = 07 50 52
Resolute
eP 08 05 00
ePP 08 09 10
Seven Falls
eP' 08 10 11
Shawinigan Falls
eP' 08 10 11

JANUARY 24
Resolute
iP 09 53.3
i 09 53.7

JANUARY 24
Resolute
eP 10 23 23
e 10 27 36

JANUARY 24
Resolute
eP 12 38 06 (c)

JANUARY 24
U.S.C.G.S.
5S, 152 1/2E
New Britain Region
H = 15 34 01
h = 100 km
Resolute
eP 15 47 44
Seven Falls
eP' 15 53 06
Shawinigan Falls
eP' 15 53 05

JANUARY 24
U.S.C.G.S.
17 1/2S, 175W
Tonga Islands
H = 15 51 47
h = 100 km
Resolute
eP 16 04 38

JANUARY 24
Resolute
eP 18 47 06.5 c

JANUARY 24
U.S.C.G.S.
15N, 92 1/2W
Mexico - Guatemala
border
H = 19 42 20
Mag 6 1/4
Horseshoe Bay
eP 19 50 21
e 19 52 13
Ottawa
iP 19 49 04 c
PP 19 50 26
PPP 19 50 41
P_cP 19 51 43
Resolute
iP 19 52 28 c
P_cP 19 53 15
eS 20 00 34
eL 20 07.1
Seven Falls
eP 19 49 32
PP 19 51 07
P_cP 19 51 53
SSS 19 58 15
Shawinigan Falls
iP 19 49 22 c
e 19 50 27
PP 19 50 50
iP_cP 19 51 50
Victoria
eP 19 50 18

JANUARY 24
U.S.C.G.S.
37 1/2N, 24 1/2W
Azores Islands
H = 19 55 14
Mag 6 1/4 - 6 1/2
Halifax
eP 20 01 27.5 d
iP 20 01 28 c
iP_cP 20 04 28
iS 20 06 26
iSS 20 07 58
iL 20 09 40
Ottawa
eP 20 02 41
PP 20 04 31
P_cP 20 04 52
S 20 08 30
Resolute
eP 20 04 03.5 (d)
iP 20 04 04 c
iS 20 11 16
Seven Falls
eP 20 02 10
P_cP 20 04 42
S 20 07 45
Shawinigan Falls
eP 20 02 23
e 20 03 30
PP 20 03 58
P_cP 20 04 46

JANUARY 24
Resolute
eP 22 12 31

JANUARY 25
Resolute
eP 03 50.2

JANUARY 25
Resolute
eP 04 19 21

JANUARY 25
Resolute
eP 06 49 24

JANUARY 25
Resolute
eP 12 52 34
e 12 52 44

JANUARY 25
Resolute
eP 15 36 (33)

JANUARY 25
Resolute
eP 16 27 33

JANUARY 25
Resolute
eP 17 56 47 c

DOMINION OBSERVATORIES

JANUARY 26
U.S.C.G.S.
25S, 71 1/2W
Near coast of Chile
H = 03 18 35
Ottawa
iP 03 29 49 c
Seven Falls
eP 03 30 00
Shawinigan Falls
eP 03 29 59

JANUARY 26
U.S.C.G.S.
16 1/2S, 174 1/2W
Samoa Islands region
H = 05 48 27
h = 300 km
Horseshoe Bay
eP 06 00 06
Victoria
eP 06 00 03

JANUARY 26
Resolute
eP 10 28 07

JANUARY 26
U.S.C.G.S.
37N, 29 1/2E
Southwestern Turkey
H = 11 38 35
Resolute
eP 11 49 03.5 (d)
eP 11 49 04 c
eL 12 07.0
Seven Falls
eP 11 49 50
Shawinigan Falls
eP 11 49 57

JANUARY 26
Resolute
eP 12 46 41

JANUARY 26
Resolute
eP 13 57 10

JANUARY 26
Resolute
eP 14 54 32 c

JANUARY 26
Resolute
eP 16 25 58

JANUARY 26
U.S.C.G.S.
1S, 77W
Ecuador
H = 17 46 51
h = 200 km
Ottawa
iP 17 55 04
Resolute
eP 17 58 23
G 18 18 20
Seven Falls
eP 17 55 21 d
Shawinigan Falls
iP 17 55 15 d

JANUARY 26
Resolute
iP 20 14 26 c

JANUARY 26
Resolute
eP 21 10 36

JANUARY 26
Resolute
eP 21 49 40 c

JANUARY 26
U.S.C.G.S.
27N, 128 1/2E
Ryukyu Islands
H = 21 43 12
Resolute
iP 21 54 53 c

JANUARY 26
Resolute
eP 23 33 19

JANUARY 26
Resolute
eP 23 57 53

JANUARY 27
U.S.C.G.S.
18N, 68 1/2W
Eastern Dominican Republic
H = 00 20 22
h = 100 km
Halifax
eP 00 25 57 c
isP 00 26 31
esS 00 30 59
Ottawa
eP 00 26 07
i 00 26 31
T 00 31 30
i 00 32 08
Resolute
eP 00 30 09.5 d
iP 00 30 10 c
eS 00 38 04
eL 00 47.1
Seven Falls
eP 00 26 17
i 00 26 39
T 00 31 54
i 00 32 26
Shawinigan Falls
eP 00 26 13
i 00 26 35
T 00 31 48
i 00 32 25

Victoria
eP 00 29 34

JANUARY 27
Resolute
iP 01 51 12 (c)

JANUARY 27
U.S.C.G.S.
71 1/2N, 2W
Jan Mayen Island region
H = 03 35 29
Ottawa
eP 03 43 29
Resolute
eP 03 40 51.5 d
iP 03 40 52 c
eS 03 45 20
eL 03 46 38
Seven Falls
eP 03 43 06
Shawinigan Falls
eP 03 43 17 c

JANUARY 27
Ottawa
eP 06 44 55
Resolute
eP 06 45 00
Seven Falls
eP 06 44 23
Shawinigan Falls
eP 06 44 34 d

JANUARY 27
Resolute
eP 06 52 34

JANUARY 27
Resolute
eP 06 58 24

JANUARY 27
Resolute
eP 11 02.0

JANUARY 27
Resolute
iP 11 25 40.5 (d)

JANUARY 27
Resolute
eP 12 47 40.5 c

JANUARY 27
Resolute
eP 16 00 56

JANUARY 27
Resolute
eP 20 02 12

JANUARY 27
U.S.C.G.S.
4N, 126E
Celebes Sea
H = 21 05 29
h = 200 km
Ottawa
eP' 21 24 16
Resolute
eP 21 18 45
Seven Falls
eP' 21 24 16
Shawinigan Falls
eP' 21 24 16

JANUARY 27
Resolute
eP 22 44 03

JANUARY 27
U.S.C.G.S.
52N, 159 1/2E
Near southeast coast of Kamchatka
H = 23 32 52
Ottawa
eP 23 44 19
Resolute
eP 23 41 08 c
Shawinigan Falls
eP 23 44 20

JANUARY 28
U.S.C.G.S.
38 1/2N, 142 1/2E
Near coast of Honshu, Japan
H = 01 21 16
Resolute
iP 01 31·31 c

JANUARY 28
Resolute
eP 02 01 58

JANUARY 28
Resolute
eP 02 06 29.5 d

JANUARY 28
Resolute
eP 06 34 13

JANUARY 28
Resolute
eP 06 47 33.5 d

JANUARY 28
Resolute
eP 07 57 52

DOMINION OBSERVATORIES

JANUARY 28
Resolute
eP 09 03 43.5

JANUARY 28
U.S.C.G.S.
30 1/2S, 79W
Juan Fernandez Islands region
H = 10 04 10
Mag 6 1/4
Horseshoe Bay
eP 10 17 05 (d)
Ottawa
eP 10 15 57 d
Resolute
eP 10 18 21
PP 10 22 40
ePS 10 31 56
eSS 10 37.7
eL 10 53.0
Seven Falls
eP 10 16 10 d
Shawinigan Falls
eP 10 16 05 d
Victoria
eP 10 17 03 d

JANUARY 28
U.S.C.G.S.
28 1/2N, 138E
South of Honshu, Japan
H = 13 59 53
h = 550 km
Resolute
iP 14 10 22.5 c

JANUARY 28
Resolute
eP 16 49 56 c

JANUARY 28
62 1/2N, 76W
Hudson Strait
H = 23 14 57
Mag 5.0
Montreal
eS_n 23 22 08.4
Lg 23 23 49.0
D = 1960 km
Ottawa
S_n 23 22 08.0
Lg 23 23 55.0
D = 1960 km
Resolute
eP_n 23 18 20.9
eS_n 23 20 55
Lg 23 22 24
D = 1630 km
Seven Falls
eS_n 23 21 33.5
eL_g 23 22 55
D = 1810 km
Shawinigan Falls
L_g 23 23 12.9

JANUARY 29
Resolute
eP 05 52 17

JANUARY 29
Halifax
e 06 56 38
eL 06 58.6
Resolute
eP 06 54 09
iP 06 54 13.5 d
e 06 59 40
eL 07 03.1

JANUARY 29
Halifax
eP 19 05 30 c
e 19 06 30

JANUARY 29
U.S.C.G.S.
52N, 174W
Andreanof Islands, Aleutian Islands
H = 20 21 27
Mag 5 3/4 - 6
Alberni
eP 20 27 45
Halifax
eP 20 32 20
eL 20 53.1
Horseshoe Bay
eP 20 27 54
Ottawa
eP 20 31 37 c
Resolute
eP 20 28 47.5
ePP 20 30 17
iP_cP 20 31 03
eS 20 34 40
eSS 20 37 34
eL 20 37 20
Seven Falls
eP 20 31 46
Shawinigan Falls
eP 20 31 42
Victoria
eP 20 27 57

JANUARY 29
U.S.C.G.S.
52N, 174W
Andreanof Islands, Aleutian Islands
H = 20 58 18
Halifax
eP 21 09 10
Ottawa
iP 21 08 28 c
Resolute
eP 21 05 38
iP_cP 21 07 53 c
Seven Falls
eP 21 08 36 c
Shawinigan Falls
eP 21 08 31

JANUARY 29
Resolute
eP 21 35 42

JANUARY 29
U.S.C.G.S.
Soutnern Bolivia
H = 22 35 54
h = 150 km
Halifax
eP 22 46 29 d
Ottawa
eP 22 46 36 d
Resolute
eP 22 49 16
Seven Falls
eP 22 46 45 d
Shawinigan Falls
eP 22 46 43

JANUARY 29
U.S.C.G.S.
71 N, 8E
Off coast of Norway
H = 23 24 30
Alberni
eP 23 34 05
Halifax
eP 23 32 28
iP 23 32 29
ePP 23 34 18
iS 23 38 52
eS_cS 23 42 17
Horseshoe Bay
eP 23 34 02
Ottawa
eP 23 32 53 c
P_cP 23 34 32
PPP 23 35 25
S 23 39 36
SS 23 43 04
G 23 44 10
Resolute
eP 23 30 13
iP 23 30 37 c
iS 23 34 52
L 23 37.0
Seven Falls
eP 23 32 29 c
P_cP 23 34 03
S 23 38 46
Shawinigan Falls
eP 23 32 38 c
Victoria
eP 23 34 09 d

JANUARY 30
U.S.C.G.S.
11 1/2S, 74 1/2W
Central Peru
H = 00 13 48
h = 60 km
Ottawa
eP 00 23 33
Resolute
eP 00 26 29
Seven Falls
eP 00 23 44
Shawinigan Falls
eP 00 23 44

JANUARY 30
U.S.C.G.S.
10S, 161E
Solomon Islands
H = 00 19 25
Mag 6 3/4
Ottawa
eP' 00 38 17
PP 00 39 40
Resolute
eP 00 33 26
ePP 00 37 48
eS 00 45 20
PS 00 46.9
eSS 00 52 20
eL 01 02 20
Seven Falls
eP' 00 38 22
PP 00 39 57
Shawinigan Falls
eP' 00 38 19

JANUARY 30
U.S.C.G.S.
61N, 78 1/2W
Hudson Bay
H = 05 17 32
Ottawa Mag 5.9
Halifax
eP_n 05 21 25
iS_n 05 25 14
L_g 05 27 25
D = 2100 km
Montreal
eP_n 05 21 13
iS_n 05 23 57
L_g 05 25 39
D = 1780 km
Ottawa
iP_n 05 21 12 c
iS_n 05 23 55
iL_g 05 25 36
D = 1770 km
Resolute
eP_n 05 21 02
iS_n 05 23 41
iLg 05 25 16
D = 1680 km
Seven Falls
eP_n 05 21 00
eS_n 05 23 44
L_g 05 25 05
D = 1650 km
Shawinigan Falls
eP_n 05 21 01.3
eS_n 05 23 35
L_g 05 25 11
D = 1700 km

JANUARY 30
Resolute
eP 09 47 02
e 09 49 55

JANUARY 30
Resolute
eP 12 00 13

DOMINION OBSERVATORIES

JANUARY 30
Resolute
iP 13 51 31.5 c

JANUARY 30
Resolute
eP 14 00 05

JANUARY 30
Resolute
eP 14 33.7
e 14 34 10
e 14 35 31

JANUARY 30
Resolute
eP 15 19 18
e 15 19 28

JANUARY 30
U.S.C.G.S.
26 1/2S, 71W
Near coast of
Chile
H = 16 15 58
h = 100 km
Halifax
iP 16 27 13 c
eS 16 37 05
ePPS 16 36 31
Ottawa
eP 16 27 15
Resolute
eP 16 29 46
e 16 32 48
SKS 16 40.2
eS 16 41.2
PS 16 43 04
Seven Falls
eP 16 27 25 d
Shawinigan Falls
eP 16 27 22 d
i 16 27 37

JANUARY 30
U.S.C.G.S.
31S, 179W
Kermadec Islands
H = 18 09 02
Halifax
ePP 18 30 43 d
iPP 18 30 44 c
Horseshoe Bay
eP 18 22 28
Ottawa
eP' 18 27 52 d
PP 18 29 31
SKP 18 30 39
Resolute
iP' 18 27 45 d
ePP 18 29 10
e 18 30 20
e 18 30 25
ePPP 18 31.4
e 18 33 54
iPKKP 18 38 06 c
e 18 40.5
e 18 41.5
eSS 18 45 05
e 18 48.4
Seven Falls
eP' 18 27 59 d
PP 18 30 22
SKP 18 30 47
PKS 18 31 37
Shawinigan Falls
eP' 18 27 56
PP 18 29 48
SKP 18 30 47
Victoria
eP 18 22 25

JANUARY 30
U.S.C.G.S.
44N, 144E
Hokkaido, Japan
H = 20 38 58
Mag 5 3/4 - 6
Halifax
e(S) 21 02 46
eL 21 20.1

Horseshoe Bay
eP 20 49 10
Ottawa
eP 20 51 33 d
Resolute
eP 20 48 35 (c)
iP 20 48 35.5 d
PPP 20 52.0
eS 20 56 24
eSS 21 00.0
Seven Falls
eP 20 51 33
Shawinigan Falls
eP 20 51 34
Victoria
eP 20 49 11

JANUARY 30
Resolute
eP 22 10 51

JANUARY 30
U.S.C.G.S.
44N, 144E
Hokkaido, Japan
H = 22 16 47
Mag 6 1/4
Alberni
eP 22 26 53
Halifax
e(S) 22 39.9
eL 22 53.8
Horseshoe Bay
eP 22 26 57 (c)
Ottawa
eP 22 29 23
Resolute
eP 22 26 24
eS 22 34 04
Seven Falls
eP 22 29 24
Shawinigan Falls
eP 22 29 25
Victoria
eP 22 27 01 c

JANUARY 30
Resolute
eP 22 45 11
e 22 45 28
e 22 50 14

JANUARY 31
Resolute
eP 01 58 03

JANUARY 31
Resolute
eP 03 58 17

JANUARY 31
Resolute
eP 06 03 50

JANUARY 31
Resolute
eP 11 14 00

JANUARY 31
Resolute
eP 12 05 24

JANUARY 31
Resolute
eP 16 05 56

JANUARY 31
Resolute
eP 18 25 56

JANUARY 31
Resolute
eP 20 04 15

JANUARY 31
Resolute
eP 21 32 58

JANUARY 31
Resolute
eP 23 08 13.5

FEBRUARY 1
U.S.C.G.S.
36 1/2N, 71 1/2E
Hindu Kush
H = 03 13 32
h = 300 km
Horseshoe Bay
eP 03 26 24
Ottawa
iP 03 26 23 d
Resolute
iP 03 24 12.5 c
Seven Falls
eP 03 26 09
Shawinigan Falls
eP 03 26 13 d

FEBRUARY 1
U.S.C.G.S.
7S, 12 1/2W
Ascension Island region
H = 04 16 12
Ottawa
eP 04 28 05
Resolute
eP 04 29 35

FEBRUARY 1
U.S.C.G.S.
54N, 165W
Fox Islands,
Aleutian Islands
H = 06 30 20
Resolute
eP 06 37 03 (c)

FEBRUARY 1
Resolute
eP 07 49 22

FEBRUARY 1
48°52'N, 123°32'W
Saltspring Island
H = 07 51 14
Mag 2.3
Alberni
iP 07 50 32.4
iS 07 50 45.8
D = 105 km
Horseshoe Bay
iP 07 51 23.6
iS 07 51 32.4
D = 60 km
Victoria
iP 07 51 20.4
iS 07 51 27.1
D = 40 km

FEBRUARY 1
U.S.C.G.S.
17 1/2S, 178W
Fiji Islands
H = 08 39 18
Resolute
eP 08 54 13

FEBRUARY 1
Resolute
eP 09 14 21

FEBRUARY 2
Canadian Arctic
H = 03 08 46.2
Mag 2.2
Resolute
P_1 03 09 04.2
S_1 03 09 17.9
D = 112 km

FEBRUARY 2
U.S.C.G.S.
6 1/2S, 126E
Banda Sea
H = 03 56 12
h = 150 km
Ottawa
eP' 04 15 07
iSKP 04 18 15
Resolute
eP 04 10 23 (c)
eP' 04 14 26
Seven Falls
eP' 04 15 09
i 04 15 21
SKP 04 18 15
Shawinigan Falls
eP' 04 15 22
SKP 04 18 15

FEBRUARY 2
Canadian Arctic
H = 04 40 16.6
Mag 2.7
Resolute
P_1 04 40 35
S_1 04 40 49
D = 115 km

FEBRUARY 2
Resolute
eP 12 13 00

FEBRUARY 2
U.S.C.G.S.
35N, 24E
Crete
H = 19 20 37
Resolute
eP 19 31 12
Seven Falls
eP 19 31 44

FEBRUARY 2
Resolute
eP 19 57 06
e 20 06 13

FEBRUARY 3
Resolute
iP 01 59 28 d

FEBRUARY 3
U.S.C.G.S.
60N, 151W
Kenai Peninsula, Alaska
H = 05 45 16
Resolute
eP 05 50 37
eS 05 55 14

FEBRUARY 3
Resolute
eP 10 44 54
e 10 45 49

FEBRUARY 3
Resolute
eP 14 31 58

FEBRUARY 3
Resolute
eP 17 22 34

FEBRUARY 3
Resolute
iP 18 45 48.5 c

FEBRUARY 3
Resolute
eP 20 55 22.5
iP 20 55 29 c

FEBRUARY 3
Resolute
eP 22 58 44

FEBRUARY 4
U.S.C.G.S.
51N, 177 1/2W
Andreanof Islands, Aleutian Islands
H = 00 06 25
Ottawa
eP 00 16 55
Resolute
eP 00 13 51
e 00 16 10
e 00 20 20
eL 00 22 40
Seven Falls
eP 00 17 01

FEBRUARY 4
U.S.C.G.S.
10 1/2N, 125 1/2E
Off north coast of Mindanao, Philippine Islands
H = 04 56 46
Resolute
eP 05 09 53

FEBRUARY 4
Resolute
eP 05 49 17

FEBRUARY 4
U.S.C.G.S.
59 1/2N, 138W
Southeastern Alaska-Canada border
H = 20 19 40
Resolute
eP 20 24 32
eS 20 28 35
eL 20 31.2

FEBRUARY 4
48.3°N, 123°49'W
Strait of Juan de Fuca
H = 22 51 58
Mag 2.6
Alberni
iP 22 52 19.5
eS 22 52 30
D = 132 km
Horseshoe Bay
iP 22 52 17.1
iS 22 52 30.5
D = 117 km
Victoria
iP 22 52 04.4
iS 22 52 09.5
D = 37 km

FEBRUARY 4
Canadian Arctic
H = 19 07 04
Mag 1.0
Resolute
P_1 19 07 08
S_1 19 07 11
D = 24.6 km

FEBRUARY 5
Resolute
eP 00 32 49
e 00 35 24

FEBRUARY 5
U.S.C.G.S.
57N, 157W
Alaska Peninsula
H = 01 04 50
h = 100 km
Alberni
eP 01.09 27 (d)
Horseshoe Bay
eP 01 09 34
Ottawa
eP 01 13 31
Resolute
eP 01 10 40
eS 01 15 19
Seven Falls
eP 01 13 41
Victoria
eP 01 09 35

FEBRUARY 5
U.S.C.G.S.
37N, 141 1/2E
Near east coast of Honshu, Japan
H = 10 05 42
Resolute
iP 10 16 10 c
e 10 32.3
e 10 48.7

FEBRUARY 5
Resolute
eP 10 50 24
e 10 50 37

FEBRUARY 5
Resolute
e 13 30 13
eP 13 30 49

FEBRUARY 6
Resolute
e 00 57 12
eP 00 57 23

FEBRUARY 6
Local - southwest of Victoria, B.C.
Mag 3
Horseshoe Bay
iP 01 11 12.4
eS 01 11 59
D = 370 km
Victoria
eP 01 10 55.0

FEBRUARY 6
Resolute
eP 02 26 19.5 c

FEBRUARY 6
Resolute
eP 05 29 52

FEBRUARY 6
U.S.C.G.S.
43 1/2N, 144 1/2E
Near northeast coast of Hokkaido, Japan
H = 07 19 27
Resolute
eP 07 29 06
eL 07 44.6

FEBRUARY 6
U.S.C.G.S.
Off coast of Oaxaca, Mexico
H = 08 08 00
Resolute
iP 08 18 13 c
e(S) 08 26.3

FEBRUARY 6
48N, 128W
Off west coast of Victoria Island
H = 13 42 05
Mag 3.7
Alberni
eP 13 43 04
eS 13 44 02
D = 410 km
Horseshoe Bay
eP 13 43 22.6
eS 13 44 16
D = 500 km
Victoria
eP 13 43 02.0
eS 13 44 07.6
D = 460 km

DOMINION OBSERVATORIES

FEBRUARY 6
U.S.C.G.S.
51N, 175 1/2W
Andreanof Islands,
Aleutian Islands
H = 14 33 02
h = 60 km
Mag 6
Alberni
eP 14 39 32
eS 14 44 45
Halifax
eS 14 52.7
e(S_cS) 14 53.7
G 15 00.1
e 15 04.9
Horseshoe Bay
eP 14 39 40
eP_cP 14 42 21
eS 14 44 58
Ottawa
eP 14 43 18
Resolute
eP 14 00 26
PP 14 42 00
P_cP 14 42 37
iS 14 46 18
eL 14 48 51
Seven Falls
eP 14 43 24
Victoria
eP 14 39 41
eS 14 45 01
eL 14 48.6

FEBRUARY 6
Resolute
eP 16 04 51
e 16 13 03

FEBRUARY 6
Resolute
eP 17 03 32

FEBRUARY 6
Resolute
eP 20 34 40

FEBRUARY 6
Resolute
eP 20 42 43
e 20 52.5
e 21 03.5
e 21 07.5

FEBRUARY 6
Resolute
eP 22 30 17

FEBRUARY 6
Resolute
eP 23 39 25.5

FEBRUARY 6
Resolute
eP 03 29 10
e 03 32 12

FEBRUARY 7
Horseshoe Bay
eP 04 05 47
eS 04 06 09
D = 200 km
Victoria
eP 04 05 37.6
eS 04 05 52.1
D = 130 km
Local shock
Mag 2.3

FEBRUARY 7
Resolute
eP 07 10 53

FEBRUARY 7
U.S.C.G.S.
4S, 81 1/2W
Near coast of
northern Peru
H = 09 36 51
Mag 7 1/4 - 7 1/2
Alberni
eP 09 47 32
eS 09 56 15
Halifax
eP 09 45 55 c
iP 09 45 55.5 d
P_cP 09 47 13
PP 09 47 50
S 09 53 07
(S_cS) 09 55 13
Horseshoe Bay
iP 09 47 28 c
iS 09 56 05
eL 10 14.0
Ottawa
eP 09 45 41 c
e 09 47 08
PP 09 47 38
e 09 50 07
e 09 51 02
e 09 52 12
S 09 52 46
S_cS 09 55 18
e 09 55 38
SS 09 56 30
Resolute
iP 09 48 55 c
iPP 09 51 53
iS 09 58 49
Saskatoon
iP 09 46 57
iPPP 09 50 46
iS 09 55 07
iSS 09 59 01
Seven Falls
eP 09 46 01 c
S 09 53 19
e 09 54 00
S_cS 09 55 57
SS 09 57 09
Shawinigan Falls
eP 09 45 53
Victoria
eP 09 47 25 c,S,E
iS 09 56 01

SEISMOLOGICAL BULLETIN - 1959

FEBRUARY 7
U.S.C.G.S.
16N, 146E
Mariana Islands
H = 10 11 39
Alberni
iP 10 23 38 c
Horseshoe Bay
iP 10 23 44 d
Resolute
iP 10 24 01.5 (d)
iP 10 24 02 c

FEBRUARY 7
U.S.C.G.S.
13N, 45W
Atlantic Ocean
H = 10 52 59
Resolute
eP 11 03 57 c

FEBRUARY 7
Resolute
eP 12 47 39

FEBRUARY 7
Ottawa
eP 15 02 04
Resolute
eP 15 05 29

FEBRUARY 7
U.S.C.G.S.
6 1/2S, 113E
Near north coast of
Java
H = 16 45 35
h = 600 km
Resolute
eP' 17 03 02

FEBRUARY 7
U.S.C.G.S.
38N, 21E
Near west coast
of Greece
H = 20 08 17
Resolute
eP 20 18 30
Seven Falls
eP 20 18 59

FEBRUARY 8
Resolute
eP 00 00 31

FEBRUARY 8
Resolute
eP 00 06 18
e 00 31.7
e 00 33.7

FEBRUARY 8
Resolute
eP 00 28 48

FEBRUARY 8
U.S.C.G.S.
49N, 28 1/2W
North Atlantic Ocean
H = 01 02 26
Mag 6 1/4 - 6 1/2
Halifax
iP 01 07 47 c
i 01 08 03
iS 01 12 06
iSSS 01 12 36
L 01 13.5
Ottawa
eP 01 08 54 c
PPP 01 10 08
P_cP 01 11 42
S 01 13 49
Resolute
eP 01 09 40 d
iP 01 09 41 c
eS 01 15 26
eL 01 17 34
e 01 20 23
Seven Falls
eP 01 08 20 c

FEBRUARY 8
Resolute
eP 05 55 41

FEBRUARY 8
U.S.C.G.S.
23S, 180
South of Fiji Islands
H = 05 46 15
h = 600 km
Resolute
eP' 06 03 44
pPP 06 06 29
Seven Falls
eP' 06 04 04

FEBRUARY 8
Resolute
eP 07 03 41

FEBRUARY 8
Resolute
eP 07 46 17
e 07 49 09
e 07 50.3

FEBRUARY 8
Resolute
eP 13 04 46
e 13 06 24

FEBRUARY 8
Resolute
eP 14 13 44

DOMINION OBSERVATORIES

FEBRUARY 8
Resolute
eP 15 02.7
e 15 06.7

FEBRUARY 8
U.S.C.G.S.
32S, 176 1/2W
Kermadec Islands
H = 15 54 06
h = 100 km
Resolute
e 16 10 07
P 16 12 46

FEBRUARY 8
Ottawa
eP 16 06 52

FEBRUARY 8
Resolute
eP 19 39 13
e 19 43 55

FEBRUARY 8
Resolute
eP 20 41 22

FEBRUARY 8
Resolute
eP 20 51 55.5

FEBRUARY 9
Resolute
eP 01 21 32.5
e 01 22 48

FEBRUARY 9
U.S.C.G.S.
50 1/2N, 177 1/2W
Andreanof Islands,
Aleutian Islands
H = 04 42 33
Alberni
eP 04 49 16
Horseshoe Bay
eP 04 49 26
Ottawa
eP 04 53 04
Resolute
iP 04 50 16 c
iPP 04 52 00
iS 04 56 31
iL 04 59.0
Seven Falls
eP 04 53 13
Victoria
eP 04 49 27

FEBRUARY 9
Resolute
eP 09 30 17
e 09 32 22

FEBRUARY 9
Resolute
eP 09 38 38 (d)
e 09 38 44

FEBRUARY 9
Resolute
eP 17 28 12

FEBRUARY 9
U.S.C.G.S.
5S, 154E
Solomon Islands region
H = 21 13 18
h = 100 km
Ottawa
eP' 21 32 08
Resolute
e 21 27.0
eP 21 27 28 (c)
e 21 39.5
Seven Falls
eP' 21 32 12

FEBRUARY 9
Resolute
eP 21 43 43 c

FEBRUARY 9
Resolute
eP 23 00 28

FEBRUARY 11
U.S.C.G.S.
Near coast of Oaxaca, Mexico
H = 01 41 20
Ottawa
eP 01 48 16
Resolute
eP 01 51 22

FEBRUARY 11
Resolute
eP 02 17 22.5

FEBRUARY 11
U.S.C.G.S.
9N, 127E
Near east coast of Mindanao, Philippine Islands
H = 03 43 38
Resolute
iP 03 56 50.5 c
iPP 04 00 55.5 (d)
eS 04 08.0
eL 04 23.6

FEBRUARY 11
Resolute
eP 04 16 50

FEBRUARY 11
Resolute
eP 09 59.9

SEISMOLOGICAL BULLETIN - 1959

FEBRUARY 11
Resolute
eP 10 22 48

FEBRUARY 11
U.S.C.G.S.
16N, 97W
Near coast of Oaxaca, Mexico
H = 13 52 13
Mag 6
Horseshoe Bay
eP 13 59 46 (c)
Ottawa
eP 13 59 05 c
Resolute
iP 14 02 14 c
eS 14 10 28
eL 14 15.7
Seven Falls
eP 13 59 36
Victoria
eP 13 59 42 c

FEBRUARY 11
U.S.C.G.S.
4S, 82 1/2W
Off coast of Peru
H = 19 57 05
Ottawa
eP 20 06 03
Resolute
eP 20 09 07
e 20 09 18
eL 20 35.0
Seven Falls
eP 20 06 12
i 20 06 22

FEBRUARY 11
U.S.C.G.S.
15S, 173 1/2W
Samoa Islands region
H = 21 36 46
Resolute
PS 22 04.1
eL 22 23.4

FEBRUARY 12
U.S.C.G.S.
50 1/2N, 177W
Andreanof Islands,
Aleutian Islands
H = 09 15 58
Ottawa
eP 09 26 25
Resolute
eP 09 23 39

FEBRUARY 12
U.S.C.G.S.
22S, 173E
Loyalty Islands region
H = 17 03 10
Resolute
eP' 17 22 01
PS 17 32.3
eL 17 50.4

FEBRUARY 12
U.S.C.G.S.
7 1/2N, 126E
Mindanao,
Philippine Islands
H = 17 56 40
Resolute
eP 18 10 01.5 (c)
eP 18 10 02 d

FEBRUARY 13
45.0°N, 128.0°W
Off coast of Oregon
H = 00 39 32
Mag 4.3
Alberni
iP 00 40 43.5
e 00 40 48
D = 528 km
Horseshoe Bay
iP 00 40 52.7 d
e 00 41 55
D = 604 km
Victoria
iP 00 40 42.5 d
eS 00 41 48
D = 520 km

FEBRUARY 13
U.S.C.G.S.
Tonga-Kermadec Islands region
H = 01 44 47
Ottawa
iP' 02 03 26 d
Seven Falls
eP' 02 03 32

FEBRUARY 13
Resolute
eP 02 20 10

FEBRUARY 13
Resolute
eP 17 16 05

FEBRUARY 14
U.S.C.G.S.
7 1/2S, 122E
Flores Sea
H = 04 36 10
Resolute
eL 05 04.5
Seven Falls
eP' 04 55 45

FEBRUARY 14
U.S.C.G.S.
28N, 97E
India Burma border
H = 22 25 50
Resolute
iP 22 37 48 c
iP 22 37 48.5 d
eS 22 47 42
PPS 22 48 30
eSS 22 52 27
eL 22 56 50

FEBRUARY 15
Resolute
eP 02 57 42

FEBRUARY 15
U.S.C.G.S.
59 1/2S, 25W
Sandwich Islands
H = 03 59 25
Mag 6 1/2 - 6 3/4
Halifax
epPP 04 18 22
eSKKS 04 24 36
pS 04 26 04
esPS 04 27 50
eSS 04 33.4
Resolute
eP' 04 18 49
ePP 04 21 46
(ePKS) 04 22 35
SKKKS 04 29.0
SKSP 04 32 13
PPPS 04 35 44
SS 04 40 30
SSS 04 45 24

FEBRUARY 15
U.S.C.G.S.
44 1/2N, 83 1/2E
Sinkiang Province, China
H = 04 02 22
Resolute
eP 04 12 37
e 04 12 41
Seven Falls
eP 04 15 07

FEBRUARY 15
U.S.C.G.S.
59 1/2S, 26W
Sandwich Islands
H = 04 42 35
Mag 6 3/4
Ottawa
eP' 05 01 11
Resolute
iP' 05 01 59
(iPKS) 05 05 44

FEBRUARY 15
Seven Falls
iP 05 18 26

FEBRUARY 15
Resolute
iP 05 58 30 c
Seven Falls
iP 05 59 19

FEBRUARY 15
Resolute
eP 07 39 36
e 07 43 20

FEBRUARY 15
U.S.C.G.S.
1 1/2S, 81 1/2W
Near coast of Ecuador
H = 23 26 17
Ottawa
eP 23 34 47
Seven Falls
eP 23 35 06

FEBRUARY 16
U.S.C.G.S.
1S, 81 1/2W
Near coast of Ecuador
H = 00 39 32
Ottawa
eP 00 48 02
Resolute
eP 00 51 22
eS 01 01 04
eSS 01 05.5
eSSS 01 09 15
Seven Falls
eP 00 48 21
Shawinigan Falls
eP 00 48 17

FEBRUARY 16
Resolute
eP 01 05 45
Seven Falls
eP 01 02 42

FEBRUARY 16
Resolute
eP 01 26 42

FEBRUARY 16
Resolute
eP 03 19.5

FEBRUARY 16
U.S.C.G.S.
25S, 180
South of Fiji Islands
H = 07 54 28
h = 500 km
Ottawa
SKP 08 15 07
Resolute
eP' 08 12 09
Seven Falls
SKP 08 15 14

FEBRUARY 16
Resolute
eP 11 05 19
e 11 08 05

FEBRUARY 16
Resolute
eP 12 04 03
e 12 06 48

FEBRUARY 16
U.S.C.G.S.
2N, 80W
Off coast of Ecuador
H = 12 16 27
Ottawa
eP 12 24 35
Resolute
eP 12 28 00
Seven Falls
eP 12 24 53

FEBRUARY 16
U.S.C.G.S.
Honduras-Nicaragua border
H = 17 54 12
Ottawa
eP 18 00 57
Resolute
iP 18 04 31.5 c
Seven Falls
eP 18 01 27
Shawinigan Falls
eP 18 01 19

FEBRUARY 16
Resolute
eP 23 51 36
e 23 54 15

FEBRUARY 17
U.S.C.G.S.
1S, 80 1/2W
Near coast of Ecuador
H = 02 51 56
Resolute
eP 03 03 43
Seven Falls
eP 03 00 42

FEBRUARY 17
49°29'N, 124°02'W
Southeast of Texada Island
H = 03 08 37
Mag 2.3
Alberni
iP 03 08 47.2
i 03 08 49.7
i 03 08 53.7
i 03 08 57.0
D = 63 km
Horseshoe Bay
iP 03 07 46.0
i 03 07 48.2
eS 03 07 53
D = 57 km
Victoria
iP 03 08 55.7
iS 03 09 10.7
D = 118 km

FEBRUARY 17
49°36'N, 124°07'W
East of Texada Island
H = 03 22 26
Mag 2.5
Alberni
iP 03 22 36.0
e 03 22 38.2
D = 62 km
Horseshoe Bay
iP 03 22 36.7
e 03 22 39.0
eS 03 24 26.1
D = 68 km
Victoria
iP 03 22 47.2
D = 132 km

FEBRUARY 17
49°32'N, 124°05'W
Southeast of Texada Island
H = 03 29 59
Mag 2.4
Alberni
iP 03 30 08.1
e 03 30 10.7
D = 61 km
Horseshoe Bay
iP 03 30 08.2
e 03 30 10.6
e 03 30 17
D = 62 km
Victoria
eP 03 30 18.1
D = 124 km

FEBRUARY 17
Resolute
eP 05 50 40
e 05 54 15

FEBRUARY 17
U.S.C.G.S.
15S, 168 1/2E
New Hebrides Islands
H = 11 21 15
Resolute
iP 11 38 10 d
e 11 42 14

FEBRUARY 17
U.S.C.G.S.
15N, 142 1/2E
Mariana Islands region
H = 11 49 59
Resolute
iP 12 02 35.5 d

DOMINION OBSERVATORIES

FEBRUARY 17
U.S.C.G.S.
51 1/2N, 171W
Fox Islands,
Aleutian Islands
H = 12 03 05
Mag 6 - 6 1/4
Halifax
iP 12 13 57
eS 12 22 48
eL 12 33.8
Horseshoe Bay
eP 12 09 18 (d)
e 12 12 19
Ottawa
eP 12 13 09
Resolute
eP 12 10 23.5 d
PPP 12 12 18
iS 12 16 20
iL 12 18 56
Seven Falls
eP 12 13 17
Shawinigan Falls
eP 12 13 13
Victoria
eP 12 09 23 (d)

FEBRUARY 17
U.S.C.G.S.
32 1/2N, 140 1/2E
South of Honshu, Japan
H = 12 49 20
Resolute
iP 13 00 15.5 c

FEBRUARY 17
Resolute
eP 14 07 (28)

FEBRUARY 17
U.S.C.G.S.
56N, 158 1/2W
Alaska Peninsula
H = 15 50 29
Resolute
eP 15 56 40
P_cP 15 59 41

FEBRUARY 17
Resolute
eP 16 03 17

FEBRUARY 17
U.S.C.G.S.
65 1/2N, 126W
Northwestern Canada
H = 20 11 50
Ottawa
e 20 26 20
eL 20 29 02
Resolute
iP 20 15 06 c
iS 20 17 31
iL 20 19 06
Saskatoon
eP 20 20 31
Seven Falls
e 20 27 58
eL 20 29 30
Shawinigan Falls
e 20 26 12
L 20 29 11

FEBRUARY 17
49°04'N, 124°06'W
West of Nanaimo
H = 20 25 22
Mag 2.2
Alberni
iP 20 25 35.3
iS 20 25 45.0
D = 56 km
Horseshoe Bay
iP 20 25 37.1
e 20 25 45.5
D = 68 km
Victoria
eP 20 25 39.0
eS 20 25 51.4
D = 80 km

FEBRUARY 18
U.S.C.G.S.
24S, 179 1/2W
South of Fiji Islands
H = 01 57 21
h = 500 km
Ottawa
eP' 02 15 12
Resolute
eP' 02 15 02

FEBRUARY 18
Resolute
eP 03 02 33
e 03 05 58

FEBRUARY 18
U.S.C.G.S.
42N, 142 1/2E
Near south coast of
Hokkaido, Japan
H = 12 05 22
Resolute
iP 12 15 13 (d)

FEBRUARY 18
U.S.C.G.S.
14N, 144E
Mariana Islands
H = 17 29 07
h = 250 km
Resolute
eP 17 41 19
eS 17 51.7

FEBRUARY 18
49 1/2N, 129 1/2W
Off west coast of
Victoria Island
H = 23 37 21
Mag 3.6
Alberni
eP 23 38 09.1
e 23 38 45
D = 300 km

Horseshoe Bay
eP 23 38 26
D = 442 km
Victoria
eP 23 38 26.2
D = 440 km

FEBRUARY 18
Resolute
eP 23 43.5
e 23 50.3
e 23 52 52
e 23 54 44

FEBRUARY 19
Resolute
eP 07 18 59
e 07 25.0

FEBRUARY 19
Resolute
iP 07 47 10 c

FEBRUARY 19
Resolute
eP 10 00 51.5

FEBRUARY 19
Resolute
eP 12 48 12
e 12 56.4
e 12 57.0

FEBRUARY 19
Resolute
eP 19 12 41 (d)

FEBRUARY 19
Resolute
iP 21 18 16 d

FEBRUARY 20
Resolute
eP 00 59 51

FEBRUARY 20
Resolute
eP 01 10 (35)
e 01 19 30
e 01 24 49

FEBRUARY 20
Resolute
eP 01 42 59

FEBRUARY 20
Resolute
eP 03 24 15

FEBRUARY 20
U.S.C.G.S.
30 1/2S, 71W
Central Chile
H = 04 12 54
h = 100 km
Halifax
iP 04 24 34 c
Ottawa
iP 04 24 35 c
Resolute
ePP 04 31 26
e 04 35 44
eSP 04 40 35
eSS 04 46 32
(eSKPP) 04 55 02
Seven Falls
iP 04 24 45
Shawinigan Falls
eP 04 24 42

FEBRUARY 20
Resolute
eP 06 11 00

FEBRUARY 20
Resolute
eP 10 45 43

FEBRUARY 20
Resolute
eP 11 20 39

FEBRUARY 20
U.S.C.G.S.
15 1/2N, 91W
Guatemala
H = 18 16 22
h = 150 km
Mag 6 1/2
Halifax
eS_cS 18 33.9
Horseshoe Bay
iP 18 24 12 d
Ottawa
eP 18 22 43 c
Resolute
eP 18 26 13 c
pP 18 26 44
eS 18 34 20
eSS 18 38 27
esSS 18 39 00
Seven Falls
eP 18 23 10
Shawinigan Falls
eP 18 23 01
Victoria
eP 18 24 07 c

FEBRUARY 20
Resolute
eP 23 05 25

FEBRUARY 21
U.S.C.G.S.
14N, 120 1/2E
Luzon Island,
Philippine Islands
H = 08 27' 15

Resolute
eP 08 40 10.5 c
iP 08 40 11 d

FEBRUARY 21
Resolute
eP 13 18 (14)

FEBRUARY 21
Canadian Arctic
H = 13 57 49.9
Mag 1.9
Resolute
P_1 13 58 03
S_1 13 58 13
D = 82.0 km

FEBRUARY 21
Resolute
eP 20 20 46

FEBRUARY 22
Resolute
e 00 27 36
e 00 29 50

FEBRUARY 22
U.S.C.G.S.
28 1/2N, 91 1/2E
Southeastern Tibet
H = 03 30 38
Resolute
eP 03 42 31

FEBRUARY 22
U.S.C.G.S.
42 1/2N, 142 1/2E
Near south coast of
Hokkaido, Japan
H = 03 35 43
Resolute
iP 03 45 30 d

FEBRUARY 22
Resolute
eP 09 05 07.5

FEBRUARY 22
U.S.C.G.S.
5 1/2S, 131E
Banda Sea
H = 10 26 06
Ottawa
eP' 10 45 25
SKP 10 48 42
Resolute
eP 10 40 21
ePP 10 44 45
Seven Falls
eP' 10 45 27
SKP 10 48 44
Shawinigan Falls
eP' 10 45 25
SKP 10 48 43

FEBRUARY 22
Resolute
eP 12 04 04
iP 12 04 08 d

FEBRUARY 22
Resolute
eP 18 31 02
e 18 32 55

FEBRUARY 22
Resolute
eP 20 56 27

FEBRUARY 22
Resolute
eP 21 45 39 c

FEBRUARY 22
U.S.C.G.S.
44 1/2N, 149E
Kurile Islands
H = 23 56 01
Resolute
eP 24 05 28

FEBRUARY 23
U.S.C.G.S.
5 1/2S, 150 E
New Britain
H = 01 58 38
Halifax
eL 02 57.6
Ottawa
eP' 02 17 41
Resolute
eP 02 12 35
e 02 12 50
PP 02 17 01
SKS 02 23 30
PS 02 26 08
PSPS 02 32 00
Seven Falls
eP' 02 17 44
Shawinigan Falls
eP' 02 17 43

FEBRUARY 23
Resolute
eP 06 02 30
eP 06 02 44

FEBRUARY 23
U.S.C.G.S.
16N, 46W
Atlantic Ocean
H = 07 49 21
Resolute
eP 08 00 04
e 08 00 11
e 08 16 -
e 08 21 -
Seven Falls
eP 07 56 41

Shawinigan Falls
eP 07 56 47

FEBRUARY 23
U.S.C.G.S.
52 1/2N, 159E
Kamchatka
H = 10 31 14
h = 100 km
Ottawa
eP 10 42 27
PP 10 45 08
Resolute
iP 10 39 14 d
iPP 10 40 59 c
eS 10 45 35
eL 10 49 05
Seven Falls
eP 10 42 30
Shawinigan Falls
eP 10 42 29

FEBRUARY 23
Resolute
eP 11 35 17

FEBRUARY 23
Resolute
eP 11 54 37.5
e 11 57 35

FEBRUARY 23
U.S.C.G.S.
45N, 149E
Kurile Islands
H = 11 53 28
Resolute
eP 12 02 53.5 d

FEBRUARY 23
Resolute
eP 12 22 42

FEBRUARY 23
Resolute
eP 12 39 15

FEBRUARY 23
Resolute
eP 13 41 10

FEBRUARY 23
U.S.C.G.S.
50N, 157E
Kurile Islands
H = 16 04 48
Ottawa
eP 16 16 27
Resolute
iP 16 13 19.5 c
P_cP 16 14 40
eS 16 20 14
eL 16 23 25
Seven Falls
eP 16 16 29
Shawinigan Falls
eP 16 16 27 c

FEBRUARY 23
Resolute
eP 19 29 46.5 d
iP 19 29 47 c

FEBRUARY 23
U.S.C.G.S.
16S, 67E
Indian Ocean
H = 20 31 00
Resolute
eP 20 49 (54)
e 21 07 -
e 21 12 25

FEBRUARY 23
Resolute
iP 21 09 18
i 21 10 11

FEBRUARY 23
Resolute
eP 22 31 23

FEBRUARY 23
U.S.C.G.S.
28 1/2N, 177W
Kermadec Islands
region
H = 22 20 58
Resolute
eP 22 39 42

FEBRUARY 23
Resolute
eP 22 50 23

FEBRUARY 24
Resolute
eP 00 29 27

FEBRUARY 24
U.S.C.G.S.
44 1/2N, 149E
Kurile Islands
H = 00 48 03
Resolute
eP 00 57 31

FEBRUARY 24
Resolute
eP 09 31 55
e 09 32 20

FEBRUARY 24
Resolute
eP 11 17 11
e 11 17 20

DOMINION OBSERVATORIES

FEBRUARY 24
U.S.C.G.S.
44N, 149 1/2E
Kurile Islands
H = 11 10 36
Resolute
eP 11 20 01 c
iP 11 20 01.5 d
P_cP 11 21 22
eL 11 40 20

FEBRUARY 24
Resolute
eP 11 50 28
e 11 50 38
e 11 54 12

FEBRUARY 24
Resolute
eP 12 32 33

FEBRUARY 24
U.S.C.G.S.
11N, 122 1/2E
Panay Island,
Philippine Islands
H = 12 45 41
h = 100 km
Resolute
eP 12 58 43 c
Seven Falls
eP' 13 04 28

FEBRUARY 24
Resolute
eP 15 30 48
i 15 31 10
i 15 31 25
i 15 31 42

FEBRUARY 24
Resolute
eP 17 51 12
i 17 51 16

FEBRUARY 24
Resolute
eP 21 27 22
e 21 30 (23)

FEBRUARY 24
Resolute
eP 22 35 22

FEBRUARY 25
Resolute
eP 02 15 25
e 02 20 03

FEBRUARY 25
Resolute
eP 03 37 35

FEBRUARY 25
U.S.C.G.S.
19S, 177W
Fiji Islands region
H = 10 02 43
h = 500 km
Resolute
eP' 10 20 15

FEBRUARY 25
Resolute
eP 11 15 19

FEBRUARY 25
U.S.C.G.S.
28 1/2N, 139E
South of Honshu,
Japan
H = 11 19 07
h = 550 km
Resolute
iP 11 29 35.5 c
pP 11 31 27
eS 11 38 (08)

FEBRUARY 25
Resolute
iP 11 55 14.5 d

FEBRUARY 25
Resolute
eP 13 18 58

FEBRUARY 25
Resolute
eP 16 27 07

FEBRUARY 25
U.S.C.G.S.
2S, 129E
Ceram Sea
H = 20 08 09
h = 200 km
Resolute
eP 20 21 52 c
PP 20 26 09

FEBRUARY 25
U.S.C.G.S.
Macquarie Island region
H = 23 40 55
Resolute
eP_1' 23 59 38
eP_2' 24 00 24
(P'P') 24 21.0
eL 24 39 40
Seven Falls
iP' 24 00 37
Shawinigan Falls
iP' 24 00 33

FEBRUARY 26
Resolute
eP 01 19 23

FEBRUARY 26
Resolute
eP 01 38 30

FEBRUARY 26
U.S.C.G.S.
25 1/2N, 125E
Ryukyu Islands
H = 01 42 31
Resolute
eP 01 54 25 (c)
P 01 54 37

FEBRUARY 26
Resolute
eP 04 06 15
e 04 08 00.5
e 04 14 06

FEBRUARY 26
Southern Oregon
Horseshoe Bay
eP 06 15 37.1
Victoria
eP 06 15 25.1
eS 06 16 28.8
Local shock

FEBRUARY 26
U.S.C.G.S.
72N, 29 1/2W
Near east coast of
Greenland
H = 07 00 13
Ottawa
eP 07 07 02
Resolute
eP 07 04 27
iS 07 07 46
i 07 08 36
Seven Falls
eP 07 06 36
Shawinigan Falls
eP 07 06 46

FEBRUARY 26
Resolute
eP 09 45 08

FEBRUARY 26
Resolute
iP 10 46 35

FEBRUARY 26
Resolute
eP 13 05 39

FEBRUARY 26
Resolute
eP 14 28 20
e 14 33 13

FEBRUARY 26
Resolute
eP 21 28 13

FEBRUARY 27
Resolute
eP 02 59 27

FEBRUARY 27
Resolute
eP 06 20 50
e 06 30 -

FEBRUARY 27
Resolute
eP 07 25 49
e 07 26 27
e 07 30 52

FEBRUARY 27
Resolute
eP 13 23 50

FEBRUARY 27
Resolute
eP 16 25 29

FEBRUARY 27
Resolute
eP 16 39 31

FEBRUARY 27
U.S.C.G.S.
7S, 126E
Banda Sea
H = 18 47 05
h = 600 km
Resolute
eP 19 00 31 c
P' 19 04 32
PP 19 05 07
Seven Falls
eP' 19 05 23
iSKP 19 08 12
Shawinigan Falls
eP' 19 05 28
SKP 19 08 12

FEBRUARY 27
Horseshoe Bay
iP 20 54 46 c
Victoria
iP 20 54 41 c

FEBRUARY 27
U.S.C.G.S.
27 1/2N, 129E
Ryukyu Islands
H = 20 56 30
Ottawa
eP' 21 14 30
Resolute
iP 21 08 10.5 c
iS 21 17 39
i 21 18 00
S_cS 21 18 36
SS 21 22 28
eL 21 27 -

FEBRUARY 27
Resolute
eP 23 13 33

DOMINION OBSERVATORIES

FEBRUARY 28
U.S.C.G.S.
53N, 168 1/2W
Fox Islands,
Aleutian Islands
H = 01 32 22
Halifax
eS 01 51 22
eL 02 04.7
Ottawa
eP 01 42 10 c
Resolute
eP 01 39 24 c
P_cP 01 41 52
eS 01 45 06
eL 01 47.3
Seven Falls
eP 01 42 19
Shawinigan Falls
eP 01 42 15

FEBRUARY 28
U.S.C.G.S.
3S, 129 1/2E
Ceram Island region
H = 03 53 51
Resolute
eP 04 07 58

FEBRUARY 28
Resolute
eP 05 07 11

FEBRUARY 28
U.S.C.G.S.
About 500 miles west
of Macquarie Island
H = 11 44 05
Ottawa
eP' 12 04 01
Resolute
eP' 12 03 54
PSPS 12 27.5
eL 12 45 -
Seven Falls
eP' 12 04 07
Shawinigan Falls
eP' 12 04 11

MARCH 1
U.S.C.G.S.
74 1/2N, 9E
Arctic Ocean
H = 00 31 20
Halifax
eP 00 39 20
e 00 41 05
iS 00 45 45
L 00 51.2
Ottawa
eP 00 39 40
Resolute
eP 00 36 36
iS 00 41 02
iL 00 43.0
Seven Falls
eP 00 39 12
S 00 45 43
Shawinigan Falls
eP 00 39 28

MARCH 1
Resolute
eP 01 50 40
e 01 57 29
e 01 59 22

MARCH 1
Resolute
eP 13 12 31

MARCH 1
Resolute
eP 13 51 41
e 13 54 12

MARCH 1
U.S.C.G.S.
1/2S, 134 1/2E
Near north coast of
New Guinea
H = 16 49 13
h = 100 km
Mag 7
Halifax
eP' 17 08 33
ePP 17 11 01
PKS 17 12 00
L 17 27.3
Ottawa
eP' 17 08 16
PP 17 10 16
Resolute
eP 17 02 57
iP 17 03 06 d
e 17 06 21
PP 17 07 10
SKKS 17 13 45
sS 17 15 06
PS 17 16.2
SS 17 21 20
Seven Falls
eP' 17 08 18
Shawinigan Falls
eP' 17 08 17

MARCH 1
Resolute
eP 17 19 (10)
e 17 23 30

MARCH 1
Resolute
eP 19 20 45

MARCH 1
U.S.C.G.S.
37 1/2N, 29 1/2E
Southwestern Turkey
H = 19 55 43
Resolute
eP 20 06 06.5

MARCH 1
U.S.C.G.S.
1/2S, 135E
Near north coast of
New Guinea
H = 20 42 14
Resolute
eP 20 56 03

MARCH 1
Resolute
eP 22 50 50
e 22 52 48

MARCH 2
U.S.C.G.S.
5 1/2S, 104E
Off south coast of
Sumatra
H = 01 37 53
Resolute
eP' 01 56 18

MARCH 2
Resolute
eP 08 01 22

MARCH 2
Resolute
eP 09 15 52
e 09 25.5
e 09 38.5

MARCH 2
U.S.C.G.S.
7 1/2S, 127 1/2E
Timor Island
H = 09 13 37
Ottawa
eP' 09 32 59
Resolute
eP' 09 32 14
e 09 35 52
PS 09 42 20
Seven Falls
eP' 09 33 11
SKP 09 36 44
Shawinigan Falls
eP' 09 33 11

MARCH 2
Resolute
eP 09 39 26
e 09 43 23

MARCH 2
U.S.C.G.S.
33 1/2N, 50E
Western Iran
H = 11 22 34
Resolute
eP 11 33 48
e 11 33 52

MARCH 2
Alberni
eP 13 30 50
Horseshoe Bay
eP 13 31 05

MARCH 2
U.S.C.G.S.
36 1/2N, 70 1/2E
Hindu Kush
H = 15 51 41
h = 250 km
Horseshoe Bay
eP 16 04 34 c
Ottawa
eP 16 04 32
Resolute
iP 16 02 22.5 c
eS 16 11 11
sS 16 12 35
sSS 16 16.8
G 16 19 33
Seven Falls
eP 16 04 18
Shawinigan Falls
eP 16 04 22

MARCH 2
Resolute
eP 20 40 30
e 20 43 47

MARCH 2
Resolute
eP 20 55 16
e 20 57 32

MARCH 2
Resolute
eP 21 10 14

MARCH 2
Canadian Arctic
H = 23 21 01.1
Mag 2.1
Resolute
iP_1 23 21 19.8
iS_1 23 21 34.0
D = 116 km

MARCH 2
U.S.C.G.S.
37N, 122W
Near coast of California
H = 23 27 15
Mag 4.9
Horseshoe Bay
eP 23 30 14
Resolute
eP 23 34 53.5
i 23 35 07
eL 23 45
Victoria
eP 23 30 18

MARCH 3
Resolute
eP 03 02 50
e 03 04 00

DOMINION OBSERVATORIES

MARCH 3
U.S.C.G.S.
37N, 122W
California aftershock
H = 07 23 44
Mag 4.5
Resolute
ePP 07 31.3

MARCH 3
Canadian Arctic
H = 10 08 36
Mag 4.1
Resolute
iP_n 10 10 02
i 10 10 09
e 10 10 58
iS_n 10 11 04
i 10 11 16
D = 640 km (?)

MARCH 3
Resolute
eP 11 17 13
e 11 17 15

MARCH 3
Resolute
eP 12 10 05

MARCH 3
U.S.C.G.S.
37N, 122W
California aftershock
H = 18 32 10
Mag 4.1
Resolute
eP 18 39 50
(PP) 18 41 40

MARCH 4
U.S.C.G.S.
51 1/2N, 159 1/2E
Off southeast coast of
Kamchatka
H = 00 52 49
Ottawa
eP 01 04 16
Resolute
eP 01 01 05 c
eL 01 18
Shawinigan Falls
eP 01 04 17

MARCH 4
U.S.C.G.S.
12N, 93E
Andaman Islands
H = 19 57 57
Resolute
eP 20 11 14.5 (d)
iP 20 11 15 c

MARCH 4
Resolute
eP 22 59 02
e 22 59 09

MARCH 4
U.S.C.G.S.
38N, 133E
Near west coast
of Honshu, Japan
H = 23 00 30
Resolute
iP 23 10 55 d

MARCH 5
U.S.C.G.S.
54N, 160E
Near east coast of
Kamchatka
H = 00 15 08
Horseshoe Bay
eP 00 23 28
Ottawa
eP 00 26 21
Resolute
iP 00 23 04.5 c
eS 00 29 20
eL 00 32.5
Seven Falls
eP 00 26 24 c
Shawinigan Falls
eP 00 26 24
Victoria
eP 00 23 32

MARCH 5
47.7N, 121.6W
East of Seattle
H = 02 19 55
Mag 2.4
Horseshoe Bay
eP 02 20 28.1
eS 02 20 55.6
D = 220 km
Victoria
eP 02 20 20.3
D = 161 km

MARCH 5
Resolute
eP 03 09 50

MARCH 5
U.S.C.G.S.
44 1/2N, 149E
Kurile Islands
H = 05 04 10
Resolute
eP 05 13 33 d
iP 05 13 33.5 c
e 05 14 53

MARCH 5
U.S.C.G.S.
14N, 145 1/2E
Mariana Islands
H = 07 26 50
Horseshoe Bay
eP 07 39 08
Resolute
eP 07 39 23 c

MARCH 5
Resolute
eP 07 31.6

MARCH 5
Resolute
eP 12 41 31
e 12 42 40

MARCH 5
U.S.C.G.S.
44 1/2N, 147E
Kurile Islands
H = 14 09 47
h = 100 km
Ottawa
eP 14 22 20
Resolute
eP 14 19 08
iP 14 19 09 c
sS 14 27 30
SSS 14 33.2

MARCH 5
Canadian Arctic
H = 20 03 35.1
Mag 1.2
Resolute
P_1 20 03 43
S_1 20 03 49
D = 49 km

MARCH 5
Canadian Arctic
H = 20 20 57.3
Mag 2.3
Resolute
P_1 20 21 16.1
S_1 20 21 30.4
D = 117 km

MARCH 5
Resolute
eP 20 59 39

MARCH 5
Canadian Arctic
H = 22 39 05.3
Mag 2.4
Resolute
P_1 22 39 23.0
S_1 22 39 36.5
D = 110 km

MARCH 5
U.S.C.G.S.
2N, 97E
Sumatra
H = 22 55 39
h = 100 km
Resolute
eP 23 09 31
PP 23 13 48
SS 23 29 18
L 23 37.0

MARCH 6
Resolute
e(P) 04 00 44 (c)
e 04 00 53

MARCH 6
Resolute
e(P) 04 31 41
e 04 34 01

MARCH 6
Resolute
e(P) 12 17 45 (c)

MARCH 6
46.5N, 129.5W
Off coast of Oregon
H = 19 15 36
Mag 3.9
Alberni
eP 19 16 43.2
D = 492 km
Horseshoe Bay
eP 19 16 54.3
D = 596 km
Victoria
eP 19 16 46.7
S 19 17 51.7
D = 528 km

MARCH 6
45N, 128W
Off coast of Oregon
H = 19 47 00
Mag 4.0
Alberni
eP 19 48 11.9
eS_1 19 49 18.4
D = 538 km
Horseshoe Bay
eP 19 48 21.0
D = 666 km
Victoria
eP 19 48 10.8
eS 19 49 17.2
D = 528 km

MARCH 6
Resolute
e 20 22 19
e(P) 20 24 (15)
e 20 32 59
e 20 56 24
e 21 02 06

DOMINION OBSERVATORIES

MARCH 6
U.S.C.G.S.
11S, 162E
Solomon Islands
foreshock
H = 20 28 43
Resolute
eP 20 56.0
ePP 21 00.2
SS 21 15 20

MARCH 6
Resolute
e(P) 21 03 23

MARCH 6
Canadian Arctic
H = 21 09 53.4
Mag 1.9
Resolute
iP_1 21 10 00.0
iS_1 21 10 05.0
D = 41 km

MARCH 6
Horseshoe Bay
eP 21 25 32.1
Victoria
eP 21 25 55.8
Local shock

MARCH 6
Resolute
e(P) 21 32 28

MARCH 6
Resolute
e(P) 23 08 54 (d)

MARCH 7
Resolute
e(P) 01 45 50
e 01 47 07

MARCH 7
U.S.C.G.S.
3 1/2S, 102E
Sumatra
H = 09 12 35
h = 100 km
Resolute
eP 09 31.0
eL 10 00.6

MARCH 7
U.S.C.G.S.
52 1/2N, 161 1/2W
South of Alaska
Peninsula
H = 15 42 17
Resolute
eP 15 48 58 c
PPP 15 50 20
e 15 51 26
P_cP 15 51 38
e 15 53 41
eL 15 57 25
Seven Falls
eP 15 51 46 c
Shawinigan Falls
eP 15 51 40

MARCH 7
Resolute
e(P) 19 27 26
e 19 31 01

MARCH 7
Resolute
e(P) 20 13.1

MARCH 7
Resolute
e(P) 20 59 (18)
i(P) 20 59 28

MARCH 7
Resolute
eP 21 30 27
e 21 36 38

MARCH 7
Resolute
eP 23 01 03

MARCH 7
Resolute
iP 23 54 15

MARCH 8
Resolute
eP 00 37 43

MARCH 8
Resolute
eP 00 48 25

MARCH 8
Resolute
eP 02 14 51

MARCH 8
Resolute
eP 03 14 35

MARCH 8
Resolute
eP 03 35 45

MARCH 8
Resolute
eP 04 47 26

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MARCH 8
Resolute
eP 05 08 58
e 05 10 39

MARCH 8
Resolute
eP 05 44.5
e 05 48.4

MARCH 8
Resolute
eP 07 05 58
iP 07 06 48 d

MARCH 8
U.S.C.G.S.
40N, 20E
Near coast of
Albania
H = 11 17 09
Resolute
eP 11 27 03

MARCH 8
Resolute
eP 14 59 44

MARCH 8
U.S.C.G.S.
21S, 170E
Loyalty Islands
H = 17 07 55
Resolute
ePP 17 27 06
eL 17 54.6

MARCH 8
Resolute
eP 22 35 19
e 22 38 04

MARCH 8
U.S.C.G.S.
11 1/2S, 75 1/2W
Central Peru
H = 23 02 42
Resolute
eP 23 15 25

MARCH 9
Resolute
eP 08 14.0

MARCH 9
Resolute
eP 09 17 22
e 09 20 (35)

MARCH 9
U.S.C.G.S.
13 1/2N, 125 1/2E
Near north coast of
Samar, Philippine
Islands
H = 10 18 09
Resolute
eP 10 31 02
eS 10 41.7
eSS 10 47.5

MARCH 9
Resolute
eP 12 58 20

MARCH 9
Resolute
eP 13 18 50

MARCH 9
Resolute
eP 14 03.5

MARCH 9
U.S.C.G.S.
Near north coast of
Honshu, Japan
H = 18 44 21
h = 60 km
Resolute
eP 18 54 19
iP 18 54 19.5 c
i 18 54 34.5
e 19 08.5
Shawinigan Falls
eP 18 57 11

MARCH 9
Resolute
eP 21 54 37

MARCH 9
U.S.C.G.S.
15 1/2N, 91W
Guatemala
H = 22 08 58
h = 150 km
Halifax
eP 22 10 02
Ottawa
iP 22 09 23 c
S 22 14 34
Resolute
iP 22 12 48.5 c
iPP 22 13 30
eS 22 20 44
sS 22 21 56
Seven Falls
eP 22 09 50 c
S 22 15 20
Shawinigan Falls
eP 22 09 40 c

MARCH 9
Resolute
eP 22 41 08

DOMINION OBSERVATORIES

MARCH 10
Resolute
eP 03 02 11

MARCH 10
Resolute
iP 07 10 08.5 c

MARCH 10
Resolute
eP 19 44 (58)
e 19 48 14

MARCH 10
Resolute
eP 20 13 25.5
iP 20 13 26 c

MARCH 10
Seven Falls
eP 20 56 17
Shawinigan Falls
eP 20 56 16

MARCH 10
U.S.C.G.S.
14N, 92 1/2W
Near coast of Guatemala
H = 22 49 39
Halifax
eL 23 08.7
Horseshoe Bay
eP 22 57 46
Resolute
eP 22 59 50 c
eS 23 08 16
S_cS 23 09 44
eSS 23 12.0
eL 23 14.2

MARCH 11
U.S.C.G.S.
28N, 104 1/2E
Szechwan Province, China
H = 02 59 51
Resolute
iP 03 11 48 c

MARCH 11
Resolute
eP 06 52.0

MARCH 11
Resolute
eP 07 02 58

MARCH 11
U.S.C.G.S.
6S, 127 1/2E
Banda Sea
H = 07 06 58
Resolute
eP 07 21 16
eP' 07 25 22

MARCH 11
Resolute
eP 0[illegible] 07.5

MARCH 11
U.S.C.G.S.
49N, 154 1/2E
Kurile Islands
H = 09 30 48
Resolute
iP 09 39 30 d

MARCH 11
Resolute
eP 09 31 (50)
i 09 32 47

MARCH 11
Resolute
eP 12 51 50
e 12 57 13

MARCH 11
U.S.C.G.S.
14 1/2S, 92W
Near coast of Guatemala
H = 14 31 33
Resolute
iP 14 41 41 c
e 14 50.5
e 15 00.5

MARCH 11
Resolute
eP 17 34 12

MARCH 11
Resolute
eP 18 36 08
e 18 39 52

MARCH 11
Resolute
eP 19 16.5
e 19 24.0

MARCH 12
U.S.C.G.S.
17N, 145E
Caroline Islands
H = 01 29 07
Mag 6
Halifax
eL 02 17.7
Resolute
iP 01 42 13 c
iP 01 42 22
e 01 44 26
e 01 53 10
e 02 05 36
e 02 06 06

SEISMOLOGICAL BULLETIN - 1959

MARCH 12
Resolute
iP 05 36 49
i 05 38 26

MARCH 12
Resolute
eP 05 44 26

MARCH 12
Resolute
eP 06 48 56

MARCH 12
U.S.C.G.S.
5S, 154 1/2E
Solomon Islands region
H = 09 00 30
h = 60 km
Resolute
eP 09 14 13

MARCH 12
Resolute
eP 09 39 32

MARCH 12
Resolute
iP 11 20 43
e 11 21 52

MARCH 12
Resolute
eP 12 43 29
e 12 43 39

MARCH 12
Resolute
eP 13 28 52

MARCH 12
Resolute
eP 15 03 23 c

MARCH 12
Resolute
e(P) 21 51 28
e 21 53 15

MARCH 12
Resolute
eP 22 28 27.5
e 22 31 11
e 22 32 37

MARCH 13
Resolute
iP 00 57 00 d
iP 01 01 07 c

MARCH 13
Resolute
eP 01 06 41.5
e 01 08 25
e 01 10 21

MARCH 13
Resolute
e(P) 06 14.4

MARCH 13
Resolute
e(P) 09 31 10.5
e 09 55.5

MARCH 13
Resolute
eP 10 38 50.5
e 11 05 -

MARCH 13
Resolute
eP 13 32 37

MARCH 13
U.S.C.G.S.
18 1/2N, 72W
Haiti
H = 15 33 34
Resolute
iP 15 43 26 c

MARCH 13
Canadian Arctic
H = 16 45 43.8
Mag 2.3
Resolute
P_1 16 46 02
S_1 16 46 15.8
D = 113 km

MARCH 13
U.S.C.G.S.
34 1/2N, 26 1/2E
Mediterranean Sea, near Crete
H = 19 08 06
Resolute
eP 19 18 45

MARCH 13
Resolute
eP 21 16 48

MARCH 14
U.S.C.G.S.
45N, 151 1/2E
Kurile Islands
H = 02 55 24
Resolute
eP 03 04 43
eS 03 12 14
S_cS 03 14.3

DOMINION OBSERVATORIES

MARCH 14
Resolute
eP 04 26 09

MARCH 14
Resolute
eP 05 44.5
e 05 46 20

MARCH 14
U.S.C.G.S.
18S, 166E
New Hebrides Islands
H = 06 57 08
h = 500 km
Resolute
eP 07 14 52

MARCH 14
Resolute
eP 17 31 28

MARCH 14
48°56'N, 122°11'W
South of Sumas District
H = 19 58 25
Mag 2.4
Alberni
eP 19 58 55.3
eS 19 59 18.8
D = 198 km
Horseshoe Bay
iP 19 58 39.5
iS 19 58 50.4
D = 93 km
Victoria
iP 19 58 40.8
iS 19 58 54.1
D = 101 km

MARCH 14
Resolute
eP 21 55 53

MARCH 15
Resolute
eP 00 49 19

MARCH 15
Resolute
eP 05 55 43

MARCH 15
Resolute
eP 07 17 37
e 07 20 44

MARCH 15
U.S.C.G.S.
12N, 85W
Nicaragua
H = 10 44 35
Ottawa
eP 10 51 33
Resolute
eP 10 55 06
eL 11 24.5
Seven Falls
eP 10 51 57
Shawinigan Falls
eP 10 51 48

MARCH 15
Resolute
eP 12 27 30

MARCH 15
Resolute
eP 20 13 47.5

MARCH 15
U.S.C.G.S.
Near east coast of
Honshu, Japan
H = 22 18 47
Resolute
eP 22 29 26.5 d
iP 22 29 27 c

MARCH 16
48°38'N, 122°37'W
Gulf Islands
H = 00 13 04
Mag 2.2
Alberni
eP 00 13 33.1
D = 183 km
Horseshoe Bay
eP 00 13 22.6
eS 00 13 37.2
D = 113 km
Victoria
eP 00 13 14.2
eS 00 13 23.2
D = 60 km

MARCH 16
U.S.C.G.S.
53 1/2N, 164 1/2W
South of Unimak Island
H = 01 36 45
Resolute
iP 01 43 33 c
eS 01 49.2

MARCH 16
U.S.C.G.S.
45 1/2N, 151E
Kurile Islands
H = 08 02 10
Resolute
eP 08 11 25 c
eS 08 19 02
S_cS 08 21 24
eL 08 23.2

MARCH 16
Resolute
eP 08 43 26 c

MARCH 16
Resolute
eP 11 08 12.5

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MARCH 16
Resolute
eP 11 41 50
iP 11 41 51 c

MARCH 16
Resolute
eP 19 56.5

MARCH 16
U.S.C.G.S.
Kermadec Islands region
H = 22 08 23
h = 100 km
Resolute
eP' 22 26 50

MARCH 16
U.S.C.G.S.
53N, 168 1/2W
Fox Islands, Aleutian Islands
H = 23 34 48
h = 60 km
Resolute
eP 23 41 41.5
eP 23 42 18 c
P_cP 23 44 11
eS 23 47.5
eL 23 49.2

MARCH 16
Resolute
eP 07 53 06.5 c
e 07 54 11

MARCH 17
U.S.C.G.S.
27 1/2N, 130E
Ryukyu Islands
H = 08 25 22
Alberni
eP 08 37 28
Halifax
ePS 08 (53) (38)
eSS 08 (59) (08)
eL 09 (20.1)
Horseshoe Bay
eP 08 37 31
Ottawa
eP' 08 43 22
Resolute
iP 08 37 00.5 d
iS 08 46 35
SS 08 51 18
eL 08 55.1
Shawinigan Falls
eP' 08 43 37
Victoria
eP 08 37 33

MARCH 17
U.S.C.G.S.
57S, 25W
Sandwich Islands
H = 12 58 57
Resolute
eP' 13 18 14
PP 13 21 24
(PKS) 13 21 56
eSS 13 39 45
eSSS 13 44 30

MARCH 17
Resolute
eP 15 23.5
e 15 50.1

MARCH 17
Resolute
eP 16 14 21
e 16 23.5

MARCH 17
Canadian Arctic
H = 17 33 25.5
h = 20 km
Mag 2.2
Resolute
eP_n 17 33 53.5
eP_1 17 33 55.0
iS_n 17 34 13.0
iS_1 17 34 18.0
D = 185 km

MARCH 17
Resolute
eP 19 15.8
e 19 29.1
e 19 39.4
e 19 58.0

MARCH 17
U.S.C.G.S.
Jan Mayen Island region
H = 22 00 06
Resolute
eP 22 05 31.5
eP 22 05 38
e 22 12.0

MARCH 18
Resolute
eP 00 50 06

MARCH 18
U.S.C.G.S.
27N, 129E
Ryukyu Islands
H = 00 41 17
Resolute
iP 00 53 01 d
PPP 00 57 38
eS 01 02 36
eSS 01 07 30

MARCH 18
Canadian Arctic
H = 02 08 47.3
Mag 2.2
Resolute
iP_1 02 09 07.5
i 02 09 13.5
iS_1 02 09 23
D = 127 km.

MARCH 18
Resolute
iP 06 21 55 d
e 06 26.7

MARCH 18
U.S.C.G.S.
37N, 141E
Near east coast of
Honshu, Japan
H = 07 26 47
h = 100 km
Ottawa
eP 07 39 46 d
Resolute
iP 07 37 05 d
pPPP 07 41.6
Seven Falls
eP 07 39 46
Shawinigan Falls
iP 07 39 46 d

MARCH 18
Resolute
eP 11 23 30

MARCH 18
U.S.C.G.S.
16N, 96 1/2W
Near coast of
Oaxaca, Mexico
H = 12 38 46
Ottawa
eP 12 45 35 d
Resolute
eP 12 48 44.5 d
eS 12 56.8
eL 13 05 24
Seven Falls
eP 12 46 05
Shawinigan Falls
eP 12 45 55

MARCH 18
Alberni
eP 13 49 14
Horseshoe Bay
eP 13 49 26

MARCH 18
U.S.C.G.S.
8S, 73 1/2W
Peru, Brazil border
H = 14 56 05
h = 150 km
Resolute
eP 15 08 22 c
sP 15 09 02
eS 15 18 30
eSS 15 24.1
Seven Falls
eP 15 05 29
Shawinigan Falls
eP 15 05 24

MARCH 18
Horseshoe Bay
eP 15 30 37

MARCH 18
Resolute
eP 16 15 46.5
e 16 19 29

MARCH 18
Resolute
eP 22 18 52

MARCH 18
Resolute
eP 23 39 47.5

MARCH 18
U.S.C.G.S.
6 1/2S, 125 1/2E
Banda Sea
H = 01 58 43
Resolute
PP 02 17 47
Seven Falls
SKP 02 21 10

MARCH 19
U.S.C.G.S.
27N, 130E
Ryukyu Islands
H = 07 24 11
Resolute
eP 07 35 51
iP 07 36 02
i 07 36 07

MARCH 19
U.S.C.G.S.
35N, 36W
North Atlantic Ocean
H = 08 25 32
Mag 6 1/4
Halifax
eP 08 30 36 c
i 08 30 50
iPP 08 31 02
iS 08 34 53
iSSS 08 35 40
i 08 43 16
Ottawa
eP 08 31 58
S 08 37 06
Resolute
eP 08 34 03.5
iP 08 34 18.5 c
PP 08 36 08
iS 08 41 19
iL 08 44 45
Saskatoon
e 08 42 15
Seven Falls
eP 08 31 22
i 08 32 09
S 08 36 23
SS 08 38 10

Shawinigan Falls
eP 08 31 41
i 08 32 28

MARCH 19
Resolute
eP 09 41 12

MARCH 19
U.S.C.G.S.
61 1/2N, 148W
Southern Alaska
H = 09 37 53
h = 100 km
Horseshoe Bay
eP 09 42 10
Ottawa
iP 09 45 52 d
Resolute
iP 09 42 49 d
P_cS 09 50 29
Seven Falls
eP 09 45 59 d
Shawinigan Falls
eP 09 45 55 d
Victoria
eP 09 42 15
eL 09 55

MARCH 19
Resolute
e 13 02.5
e 13 08.3
e 13 24.3

MARCH 19
U.S.C.G.S.
35N, 142E
Off coast of Honshu,
Japan
H = 14 14 53
Resolute
iP 14 25 31 d

MARCH 19
Resolute
eP 16 45 21

MARCH 19
Resolute
eP 23 06.2

MARCH 20
U.S.C.G.S.
52N, 159E
Near east coast
of Kamchatka
H = 01 02 42
Ottawa
eP 01 14 08
Resolute
iP 01 10 58 c
eS 01 17 42
eL 01 21 00
Shawinigan Falls
eP 01 14 09

MARCH 20
Resolute
eP 03 31 46 d

MARCH 20
Resolute
eP 04 11 27

MARCH 20
Banff
eP 08 35 13

MARCH 20
Banff
eP 09 42 35

MARCH 20
Resolute
eP 15 28 53

MARCH 20
45N, 126W
Off coast of Oregon
H = 15 41 58 (Victoria)
Mag 3.7
U.S.C.G.S.
44N, 128W
H = 15 41 30
Alberni
eP 15 42 59.4
eS 15 43 55.1
D = 446 km
Horseshoe Bay
eP 15 43 09.2
D = 526 km
Ottawa
eP 15 48 38 d
Resolute
eP 15 48 17
Seven Falls
eP 15 49 02 d
Victoria
eP 15 42 54.5
D = 405 km

MARCH 20
U.S.C.G.S.
36 1/2N, 142 1/2E
Off east coast of
Honshu, Japan
H = 15 44 31
h = 100 km
Resolute
eP 15 54 48 c

MARCH 20
Resolute
eP 17 55 50 c
iP 17 55 51 d

DOMINION OBSERVATORIES

MARCH 20
U.S.C.G.S.
10S, 117E
Sumbawa Island region
H = 23 53 24
Halifax
iP' 24 13 06 c
Ottawa
eP' 24 12 57
Resolute
eP' 24 12 03
e 24 17 37.5
Seven Falls
eP' 24 12 57
Shawinigan Falls
eP' 24 12 59

MARCH 21
U.S.C.G.S.
19S, 178W
Fiji Islands
H = 04 27 21
h = 550 km
Resolute
eP' 04 44 43
Seven Falls
eP' 04 45 02
Shawinigan Falls
eP' 04 44 59 c

MARCH 21
Resolute
eP 04 56 09

MARCH 21
U.S.C.G.S.
53 1/2N, 165W
Unimak Island region
H = 19 37 08
Resolute
eP 19 43 54
eS 19 49.4
eL 19 51.3

MARCH 21
Resolute
eP 20 32 28

MARCH 21
48.6N, 122.7W
North Puget Sound
H = 20 38 55
Mag 3 1/4
Alberni
iP 20 39 24.0
eS 20 39 36.7
D = 198 km
Horseshoe Bay
iP 20 39 18.5
eS 20 39 36.6
D = 144 km
Victoria
iP 20 39 07.4
iS 20 39 16.4
D = 74 km

MARCH 22
Resolute
eP 00 08 04

MARCH 22
Resolute
eP 03 33 37

MARCH 22
Canadian Arctic
H = 08 15 18.5
h = 21 km
Mag 2.8
Resolute
eP_n 08 15 54.5
iP_1 08 15 59.0
iS_n 08 16 21
i 08 16 27.5
S_1 08 16 30.0
D = 254 km

MARCH 22
Resolute
eP 14 23 27
e 14 28 06

MARCH 22
Resolute
eP 16 09 18

MARCH 22
U.S.C.G.S.
46 1/2N, 3 1/2W
Near west coast of France
H = 22 36 38
Resolute
eP 22 45 02

MARCH 23
Resolute
eP 05 09 32

MARCH 23
U.S.C.G.S.
40N, 118W
Western Nevada
H = 07 10 22
Mag 6 1/4 - 6 1/2
Alberni
eP 07 13 08
Halifax
ePP 07 (19.7)
eS 07 (24) (14)
eSS 07 (27) (04)
eL 07 (30.4)
Horseshoe Bay
eP 07 12 57
e 07 16 01
Resolute
eP 07 17 32
PP 07 19 04
P_cP 07 19 56
eS 07 23 19
eL 07 25 08

Saskatoon
iP 07 14 00
iS 07 17 04
i 07 18 11
Seven Falls
eP 07 17 14
S 07 22 44
G 07 24 38
Shawinigan Falls
eP 07 17 03
Victoria
eP 07 12 45
e 07 14 56

MARCH 23
Resolute
eP 19 47 45
e 19 51.0
e 19 28.5

MARCH 23
Canadian Arctic
H = 22 12 47
h = 0
Mag 3.6
Resolute
eP_n 22 13 56.5
iP_1 22 14 07
iS_n 22 14 45
iS_1 22 15 08
D = 500 km

MARCH 24
Resolute
iP 01 44 37
iP 01 44 37.5 c

MARCH 24
Resolute
eP 05 01.0

MARCH 24
U.S.C.G.S.
La Rioja Province, Argentina
H = 05 05 37
Ottawa
iP 05 17 16
Seven Falls
eP 05 17 25
Shawinigan Falls
eP 05 17 22

MARCH 24
Resolute
eP 05 36 58

MARCH 24
Horseshoe Bay
eP 10 13 10.1
eS 10 13 37.7
D = 290 km
Victoria
eP 10 12 56.6
eS 10 13 18
D = 180 km
Local shock

MARCH 24
Resolute
iP 11 21.8

MARCH 24
Resolute
eP 12 41 26

MARCH 24
Resolute
eP 15 56 25

MARCH 24
Resolute
eP 16 04 23

MARCH 24
Resolute
eP 16 27 20

MARCH 24
U.S.C.G.S.
34N, 142E
Off coast of Honshu, Japan
H = 17 18 24
Resolute
iP 17 29 09.5 c
eS 17 37.9
SS 17 42.1
eL 17 45.1
Victoria
eP 17 29 29

MARCH 24
Resolute
iP 20 50 00 d

MARCH 24
Resolute
eP 21 44.6

MARCH 25
U.S.C.G.S.
5S, 78 1/2W
Northern Peru
H = 00 11 15
Ottawa
eP 00 20 11
Resolute
eP 00 23 25
e 00 30 38
Seven Falls
eP 00 20 28
Shawinigan Falls
eP 00 20 22

DOMINION OBSERVATORIES

MARCH 25
U.S.C.G.S.
Guatemala-Mexico border
H = 04 27 50
h = 100 km
Horseshoe Bay
eP 04 35 38
Ottawa
iP 04 34 20 d
Resolute
eP 04 37 44
e 04 45.5
e 04 56.0
Victoria
eP 04 35 30 d

MARCH 25
U.S.C.G.S.
30N, 70E
West Pakistan
H = 06 03 48
h = 100 km
Resolute
eP 06 15 26

MARCH 25
Resolute
eP 06 52 21

MARCH 25
U.S.C.G.S.
New Hebrides Islands
H = 07 02 12
Resolute
eP 07 16 30

MARCH 25
Resolute
eP 10 14 31

MARCH 25
Resolute
iP 11 51 40.5 d
i 11 51 43

MARCH 25
Resolute
eP 12 35 10
e 12 38 45

MARCH 25
Resolute
eP 15 16 46
Shawinigan Falls
eP 15 16 54

MARCH 25
Resolute
eP 16 36 20

MARCH 26
U.S.C.G.S.
7S, 155 1/2E
Solomon Islands
H = 02 24 12
h = 60 km
Halifax
eL 03 29.3
Ottawa
iP' 02 43 02 d
PKKP 02 53 04
Resolute
eP 02 38 01 c
SKS 02 48.5
PS 02 51.1
SS 02 56.5
SSS 03 03.7
eL 03 06.3
Seven Falls
eP' 02 43 05

MARCH 26
Resolute
eP 02 54 07 (c)
e 02 54 30
e 03 02 16

MARCH 26
Resolute
iP 05 00 19 d
e 05 05.7
e 05 09.1
e 05 14.7

MARCH 26
U.S.C.G.S.
0, 125E
Molucca Passage
H = 05 24 42
Ottawa
eP' 05 43 59
pP' 05 44 22
SKP 05 47 18
Resolute
eP 05 38 40
e 05 40 07
e 05 47 28
Seven Falls
eP' 05 43 59
pP' 05 44 24
SKP 05 47 18
Shawinigan Falls
SKP 05 47 18

MARCH 26
Horseshoe Bay
eP 08 18 38

MARCH 26
Resolute
eP 10 27 11

MARCH 26
U.S.C.G.S.
39N, 71 1/2E
Tadzhik, S.S.R.
H = 11 04 35
Ottawa
eP 11 17 44
Resolute
eP 11 15 24.5
SS 11 38.5
eL 11 41.5

Seven Falls
eP 11 17 30

MARCH 26
Resolute
eP 13 17 39
e 13 27.2

MARCH 26
Resolute
eP 13 43 11
e 13 43 32

MARCH 26
Resolute
eP 14 25 31

MARCH 26
Canadian Arctic
H = 21 50 09.4
Mag 2.3
Resolute
P_1 21 50 33.0
S_1 21 50 51
D = 148 km

MARCH 27
Resolute
iP 07 05 24 c

MARCH 27
U.S.C.G.S.
17 1/2N, 63W
Leeward Islands
H = 07 02 07
h = 150 km
Alberni
eP 07 11 52
Banff
eP 07 11 13 c
Halifax
iP 07 07 42
Horseshoe Bay
iP 07 11 44 d

Ottawa
iP 07 08 06 d
P_cP 07 11 02
T 07 14 25
Resolute
iP 07 12 00.5 d
iP_cP 07 12 45
eL 07 27.0
Seven Falls
eP 07 08 11 d
Shawinigan Falls
iP 07 08 09 d
Victoria
iP 07 11 44 d, N, E
e 07 12 35

MARCH 27
48°04'N, 123°50'W
Olympic Mountain
H = 07 03 13
Mag 2.9
Alberni
iP 07 03 37.7
iS 07 03 56.9
D = 152 km
Banff
eP 07 04 45.9 c
Horseshoe Bay
eP 07 03 35.3
eS 07 03 51.3
D = 138 km
Victoria
iP 07 03 22.9
iS 07 03 30.1
D = 59 km

MARCH 27
Resolute
eP 08 37 25.5

MARCH 27
Resolute
eP 11 18 52.5
e 11 20 48.5

MARCH 27
Resolute
eP 13 27 19

MARCH 27
Resolute
eP 14 08 21

MARCH 27
Resolute
eP 15 46 08

MARCH 27
Resolute
eP 15 57 37

MARCH 27
Resolute
eP 16 26 46

MARCH 27
U.S.C.G.S.
1N, 85W
Pacific Ocean
H = 22 57 36
Halifax
eS 23 13 11
eSS 23 16.7
Ottawa
eP 23 05 55
Resolute
eP 23 09 08
eS 23 18 45
SS 23 23 19
SSS 23 26 40
eL 23 27.3
Seven Falls
eP 23 06 17
Shawinigan Falls
eP 23 06 14

DOMINION OBSERVATORIES

MARCH 27
Resolute
eP 23 53 05

MARCH 28
U.S.C.G.S.
48N, 153E
Kurile Islands
H = 07 45 14
Ottawa
eP 07 57 14 d
Resolute
iP 07 54 06.5 c
eL 08 07 33

MARCH 28
Resolute
eP 08 46 00 (c)

MARCH 28
Resolute
eP 11 03 52

MARCH 28
Resolute
eP 15 03.5
e 15 03 57

MARCH 28
Resolute
iP 16 19 38

MARCH 28
U.S.C.G.S.
21N, 120E
Off south coast of
Formosa
H = 17 11 16
Resolute
iP 17 23 36 d

MARCH 28
U.S.C.G.S.
35 1/2N, 71E
Hindu Kush
H = 18 42 45
h = 200 km
Resolute
eP 18 53 34

MARCH 28
U.S.C.G.S.
20S, 178 1/2W
Fiji Islands
H = 19 47 07
h = 600 km
Mag 5 3/4 - 6
Banff
iP 19 59 06 c
Horseshoe Bay
iP 19 58 44 d
Resolute
eP 20 00 28
iP' 20 04 30 c
eS 20 11 41
SP 20 13 30
sSP 20 17 08
SS 20 19 20
sSS 20 23.0
SSS 20 24.0
Seven Falls
eP' 20 04 47
Victoria
eP 19 58 40 d

MARCH 28
U.S.C.G.S.
21 1/2N, 120 1/2E
Near south coast of
Formosa
H = 21 08 23
Resolute
iP 21 20 42 d

MARCH 29
Resolute
eP 03 33 52 c

MARCH 29
U.S.C.G.S.
19N, 64 1/2W
Virgin Islands
H = 05 39 58
Ottawa
T 05 51 38
Resolute
eP 05 49 58
Seven Falls
eP 05 46 06
T 05 51 49

MARCH 29
Resolute
eP 07 41 36 (c)

MARCH 29
Resolute
eP 09 31 10

MARCH 29
Resolute
eP 12 06 09

MARCH 29
U.S.C.G.S.
45 1/2N, 137 1/2E
Sikhola, Alin
H = 19 09 33
h = 300 km
Ottawa
eP 19 21 40

MARCH 29
U.S.C.G.S.
38N, 24 1/2E
Near east coast of
Greece
H = 23 07 16
Ottawa
eP 23 18 31
Resolute
iP 23 17 31.5 c

SEISMOLOGICAL BULLETIN - 1959

MARCH 29
U.S.C.G.S.
Greece aftershock
H = 23 22 45
Resolute
eP 23 33 00 d

MARCH 30
U.S.C.G.S.
8N, 82W
Near south coast of
Panama
H = 07 18 20
Ottawa
eP 07 25 45
Resolute
eP 07 29 18 c
e 07 45 -

MARCH 30
Resolute
eP 08 45 34

MARCH 30
Resolute
eP 10 48 05

MARCH 30
Resolute
iP 21 01 22.5
e 21 07 31

MARCH 30
Resolute
eP 21 12 17 c
e 21 19 00
e 21 22 14
e 21 25.2

MARCH 31
U.S.C.G.S.
53N, 167W
Fox Islands,
Aleutian Islands
H = 01 05 24
Ottawa
eP 01 15 18
Resolute
eP 01 12 21 c
P_cP 01 14 52
eL 01 19 36

MARCH 31
Resolute
eP 05 08 22

MARCH 31
Resolute
eP 07 34 16.5

MARCH 31
U.S.C.G.S.
15S, 173W
Samoa Islands region
H = 07 20 45
Mag 6
Halifax
ePS 07 49 55
(eSS) 07 56 47
e 07 57 25
G 08 15.5
Resolute
eP 07 34 39.5
SKS 07 45 14
S 07 46 14
PS 07 47 54
SS 07 53 15
SSS 07 57 10

MARCH 31
Resolute
eP 18 13 24.5

MARCH 31
Resolute
eP 20 01 14

MARCH 31
Resolute
iP 16 07 41 c

DOMINION OBSERVATORIES

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the first quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

JANUARY 3 at 12 43 24 U.T. Magnitude 2.5 Originated 232 km from Resolute, N.W.T. at a depth of about 19 km.

JANUARY 16 at 07 48 02 U.T. Magnitude 1.5 Originated 63 km from Resolute, N.W.T.

JANUARY 28 at 23 14 57 U.T. Magnitude 5.0 Epicentre at 62 .5° N, 76.0°W. In Hudson Strait.

JANUARY 30 at 05 17 32 U.T. Magnitude 5.9 Epicentre at 61.0°N, 78.5°W. In the Hudson Bay.

FEBRUARY 2 at 03 09 46 U.T. Magnitude 2.2 Originated 112 km from Resolute, N.W.T.

FEBRUARY 2 at 04 40 17 U.T. Magnitude 2.7 Originated 115 km from Resolute, N.W.T.

FEBRUARY 4 at 19 07 04 U.T. Magnitude 1.0 Originated 25 km from Resolute, N.W.T.

FEBRUARY 21 at 13 57 50 U.T. Magnitude 1.9. Originated 82 km from Resolute, N.W.T.

MARCH 2 at 23 21 01 U.T. Magnitude 2.1 Originated 116 km from Resolute, N.W.T.

MARCH 3 at 10 08 36 U.T. Magnitude 4.1 Originated 640 km from Resolute, N.W.T.

MARCH 5 at 20 03 35 U.T. Magnitude 1.2 Originated 49 km from Resolute, N.W.T.

MARCH 5 at 20 20 57 U.T. Magnitude 2.3 Originated 117 km from Resolute, N.W.T.

MARCH 5 at 22 39 05 U.T. Magnitude 2.4 Originated 110 km from Resolute, N.W.T.

MARCH 6 at 21 09 53 U.T. Magnitude 1.9 Originated 41 km from Resolute, N.W.T.

MARCH 13 at 16 45 44 U.T. Magnitude 2.3 Originated 113 km from Resolute, N.W.T.

MARCH 17 at 17 33 26 U.T. Magnitude 2.2 Originated 185 km from Resolute, N.W.T. at a depth of about 20 km.

MARCH 18 at 02 08 47 U.T. Magnitude 2.2 Originated 127 km from Resolute, N.W.T.

MARCH 22 at 08 15 19 U.T. Magnitude 2.8 Originated 254 km from Resolute, N.W.T. at a depth of about 21 km.

MARCH 23 at 22 12 47 U.T. Magnitude 3.6 Originated 500 km from Resolute, N.W.T.

MARCH 26 at 21 50 09 U.T. Magnitude 2.3 Originated 148 km from Resolute, N.W.T.

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA
AND ADJACENT AREAS

No earthquakes occurred in this area during the first quarter of 1959.

SEISMOLOGICAL BULLETIN - 1959

EARTHQUAKES IN WESTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the first quarter of 1959. The time of observed phases are given at their respective chronological positions in the text of this bulletin.

JANUARY 15 at 08 42 31 U.T. Magnitude 4.4 Epicentre at 44.6N, 129.5W. Off coast of Oregon.

JANUARY 15 at 19 16 10 U.T. Magnitude 4.2 Epicentre at 50.5N, 128.9W. North-west of Vancouver Island.

JANUARY 16 at 16 50 46 U.T. Magnitude 5.4 Epicentre at 52.0N, 130.9W. Southern tip of Queen Charlotte Islands.

JANUARY 18 at 17 15 03 U.T. Magnitude 4.1 Epicentre at 44.0N, 127.5W. Off coast of Oregon.

FEBRUARY 1 at 07 51 14 U.T. Magnitude 2.3 Epicentre at 48 52N, 123 32W. Saltspring Island.

FEBRUARY 4 at 20 19 40 U.T. Epicentre at 59.5N, 138W. U.S.C.G.S.

FEBURARY 4 at 22 51 58 U.T. Magnitude 2.6 Epicentre at 48.3N, 123 49W. Strait of Juan de Fuca.

FEBRUARY 6 at 13 42 05 U.T. Magnitude 3.7 Epicentre at 48.0N, 128 W. West Coast of Vancouver Island.

FEBRUARY 13 at 00 39 32 U.T. Magnitude 4.3 Epicentre at 45.0N, 128.0W. Off coast of Oregon.

FEBRUARY 17 at 03 08 37 U.T. Magnitude 2.3 Epicentre at 49 29N, 124 02W. South-east of Texada Island.

FEBRUARY 17 at 03 22 26 U.T. Magnitude 2.5 Epicentre at 49 36N, 124 07W. East of Texada Island.

FEBRUARY 17 at 03 29 59 U.T. Magnitude 2.4 Epicentre at 49 32N, 124 05W. South-east of Texada Island.

FEBRUARY 17 at 20 21 50 U.T. Epicentre at 65.5N, 126W North-west Canada. U.S.C.G.S.

FEBRUARY 17 at 20 25 22 U.T. Magnitude 2.2. Epicentre at 49 04N, 124 06W. West of Nanaimo.

FEBRUARY 18 at 23 37 21 U.T. Magnitude 3.6 Epicentre at 49.5N, 129.5W. West Coast of Vancouver Island.

DOMINION OBSERVATORIES

MARCH 5 at 02 19 55 U.T. Magnitude 2.4 Epicentre at 47.7N, 121.6W. East of Seattle.

MARCH 6 at 19 15 36 U.T. Magnitude 3.9 Epicentre at 46.5N, 129.5 W. Off coast of Oregon.

MARCH 6 at 19 47 00 U.T. Magnitude 4.0 Epicentre at 45.0N, 128.0W. Off coast of Oregon.

MARCH 14 at 19 58 25 U.T. Magnitude 2.4 Epicentre at 48 56 N, 122 11 W. South of Sumas District.

MARCH 16 at 00 13 04 U.T. Magnitude 2.2 Epicentre at 48 28 N, 122 37W. Gulf Islands.

MARCH 20 at 15 41 58 U.T. Magnitude 3.7 Epicentre at 45.0N, 126.0W. Off coast of Oregon.

MARCH 21 at 20 38 55 U.T. Magnitude 3.2 Epicentre at 48.6 N, 122.7W. North Puget Sound.

MARCH 27 at 07 03 13 U.T. Magnitude 2.9 Epicentre at 48 04N, 123 50W. Olympic Mountains.

SEISMOLOGICAL BULLETIN - 1959

I.G.Y. MICROSEISMIC BULLETIN

JANUARY - MARCH - 1959

NOTES

Four stations only have been read,

An Atlantic station - Halifax,
An inland station - Ottawa,
An Arctic station - Resolute, and
A Pacific station - Victoria.

The following instruments are used:

Halifax	- Willmore	Z	T_s =	1 sec.	T_g =	2.0 sec. *
Ottawa	- Benioff	Z	T_s =	1 sec.	T_g =	75 sec.
Resolute	- Columbia	Z	T_s =	10 sec.	T_g =	23 sec.
Victoria	- Benioff	Z	T_s =	1 sec.	T_g =	75 sec.

* As of February 1, 1959 the readings from the Halifax station were discontinued, and readings from the remaining stations will be read only, at six hour intervals.

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 1	0	1	3.0	4.5	3	0.9	5.0	...			3	1.4	5.0	Halifax storm start
	6	1	2.2	4.0	3	1.2	5.0	1	0.9	6.2	3	1.3	5.0	
	12	1	2.5	4.5	3	1.3	5.0	1	1.0	6.3	3	1.3	5.0	
	18	3	3.3	5.0	1	1.4	5.0	1	1.1	6.1	3	1.4	5.0	
2	0	1	3.1	6.0	1	1.4	5.0	1	1.0	6.2	3	1.4	5.0	
	6	1	3.4	5.5	1	1.7	5.8	1	1.0	6.3	3	1.6	5.0	
	12	1	4.5	5.5	1	3.8	5.9	1	1.2	6.2	3	1.6	5.0	
	18	1	6.2	6.0	1	2.8	6.0	1	0.9	6.0	3	1.4	5.0	
3	0	1	4.9	5.5	1	2.8	6.0	1	0.9	6.6	3	1.3	5.0	International day
	1	1	5.1	6.0	1	3.5	6.0	1	1.0	6.0	...			
	2	1	3.5	5.0	1	3.5	6.0	1	0.7	6.8	...			
	3	1	5.0	5.0	1	3.5	6.0	1	1.0	6.2	...			
	4	1	3.5	5.0	1	3.5	6.0	1	1.0	6.2	...			
	5	1	6.5	6.0	1	4.5	6.0	...			...			
	6	1	5.4	6.0	1	4.4	6.0	1	1.0	6.3	3	1.6	5.0	
	7	1	7.6	6.3	1	3.8	6.0	1	1.1	6.6	...			
	8	1	3.9	5.5	1	3.4	5.9	1	0.8	6.1	...			
	9	1	5.4	6.0	1	3.4	5.9	...			...			
	10	1	6.8	7.0	1	3.4	5.9	...			...			
	11	1	5.9	6.0	1	4.0	6.0	3	1.2	6.5	...			
	12	1	5.7	6.0	1	5.2	6.0	...			...			Resolute storm start
	13	1	5.6	5.8	1	3.8	6.0	...			...			
	14	1	9.0	6.0	1	5.4	7.0	2	2.0	7.9	...			
	15	1	11.0	7.5	1	5.6	7.0	2	2.8	8.2	...			
	16	1	8.0	6.0	1	5.4	7.0	2	3.3	8.3	...			
	17	1	16.2	8.0	1	9.2	9.0	2	3.8	8.1	...			
	18	1	14.5	7.0	1	9.8	8.0	2	4.5	8.3	3	3.6	7.5	

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 3	19	1	15.6	8.0	1	10.2	8.0	...			...			Resolute - Micro. storm too intense for accurate hourly measurements for following day
	20	1	16.2	8.0	1	11.3	7.9	...			...			
	21	1	22.0	8.8	1	11.0	8.0	...			...			
	22	1	26.0	8.2	1	13.5	9.0	...			...			
	23	1	19.3	8.0	1	13.3	9.0	...			...			
4	0	1	15.6	7.8	1	13.2	8.9	2	6.7	8.6	3	4.6	7.5	
	1	1	24.8	8.0	1	16.6	8.9	...			...			
	2	1	27.0	8.5	1	14.8	9.0	...			...			
	3	1	29.0	8.8	1	13.5	9.0	...			...			
	4	1	14.0	7.5	1	13.3	9.0	...			...			
	5	1	22.0	8.5	1	16.0	9.5	...			...			
	6	1	24.0	9.0	1	18.0	9.5	2	7.1	9.3	3	4.8	7.5	
	7	1	20.0	9.0	1	14.6	9.5	...			...			
	8	1	16.2	8.0	1	14.4	8.8	...			...			
	9	1	22.0	9.0	1	13.3	9.0	...			...			
	10	1	23.0	8.8	1	14.8	8.6	...			...			
	11	1	14.2	8.0	1	14.6	8.2	...			...			
	12	1	16.0	8.2	1	12.4	8.3	2	5.6	8.9	3	3.6	7.5	
	13	1	18.0	8.5	1	13.3	9.0	...			...			
	14	1	16.0	9.0	1	12.8	9.0	...			...			
	15	1	13.2	7.0	1	13.3	9.0	...			...			
	16	1	16.0	8.2	1	11.6	8.8	...			...			
	17	1	16.2	8.0	1	11.6	8.9	...			...			
	18	1	9.6	7.0	1	12.4	8.5	2	5.4	9.2	3	3.6	7.5	
	19	1	9.9	7.0	1	11.6	8.0	...			...			
	20	1	10.3	7.0	1	10.2	8.0	...			...			
	21	1	13.6	8.0	1	11.2	8.5	...			...			

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 4	22	1	22.2	8.0	1	11.6	8.0	...			...			
	23	1	12.8	7.0	1	12.4	8.6	...			...			
5	0	1	5.1	6.0	1	9.2	7.8	2	4.9	9.0	3	3.7	7.0	
	6	3	8.1	8.0	1	9.4	8.0	2	4.0	8.3	3	3.5	7.5	
	12	1	7.6	7.0	1	9.4	8.0	2	3.2	8.3	3	1.7	5.5	
	18	3	14.0	7.8	1	8.0	7.0	2	3.4	8.1	3	1.8	5.5	
6	0	3	13.6	7.9	1	4.8	7.0	2	2.3	8.3	3	2.4	6.0	
	6	1	6.7	6.0	1	6.0	7.0	2	2.8	8.2	3	2.4	6.0	
	12	3	7.0	6.0	1	7.0	7.0	2	3.3	8.2	3	2.6	6.0	
	18	1	5.4	6.0	1	7.0	7.0	2	3.4	8.4	3	2.6	6.0	
7	0	1	15.4	8.0	1	10.2	7.1	2	4.4	8.2	3	3.4	7.0	
	6	1	13.6	8.0	1	13.0	8.3	2	5.1	8.6	3	2.9	7.0	
	12	1	12.8	8.0	1	10.0	8.3	2	3.8	8.6	3	2.9	7.0	
	18	...			1	8.0	8.0	2	3.1	8.3	3	2.5	6.0	
8	0	...			1	4.7	7.5	2	2.4	8.1	3	2.7	6.0	
	6	...			1	6.6	7.5	2	2.7	8.1	3	3.5	6.0	
	12	...			1	12.0	8.1	2	4.4	8.0	3	3.6	6.0	
	18	...			1	11.0	8.2	2	3.8	8.6	3	3.6	6.0	
9	0	...			1	6.3	7.1	2	3.3	8.3	3	3.5	6.0	
	1	...			1	5.8	8.0	2	2.5	8.3	...			International day
	2	...			1	5.8	8.0	2	3.0	8.0	...			
	3	...			1	4.2	7.3	2	2.8	8.0	...			
	4	...			1	4.4	7.0	2	2.4	8.1	...			
	5	...			1	4.4	7.0	2	2.3	7.7	...			Resolute storm end
	6	...			1	4.0	6.8	2	2.2	7.4	3	3.6	6.0	
	7	...			1	3.9	6.9	2	1.7	7.6	...			
	8	...			1	3.5	6.0	2	1.9	7.7	...			

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 9	9	...			1	4.2	7.0	2	1.9	7.8	...			
	10	...			1	3.4	7.0	2	1.7	7.8	...			
	11	...			1	4.8	7.0	2	1.7	7.4	...			
	12	...			1	3.0	6.4	2	1.4	7.3	3	2.3	6.0	
	13	...			1	4.1	7.1	2	1.4	7.5	...			
	14	3	9.2	7.5	...			2	1.6	7.4	...			Halifax storm end
	15	3	4.7	6.0	...			2	1.4	7.3	...			
	16	3	3.9	5.5	1	4.0	7.0	2	1.3	7.0	...			
	17	3	2.8	5.5	1	4.0	7.0	2	1.4	7.3	...			
	18	3	3.2	5.5	1	4.0	7.0	1	1.3	7.4	3	1.5	5.5	
	19	1	5.1	6.0	...			1	1.4	7.2	...			
	20	1	3.9	6.0	1	4.0	7.0	1	1.3	7.0	...			
	21	1	3.2	5.5	1	4.0	7.0	1	1.1	7.2	...			
	22	1	2.8	5.5	1	3.0	6.5	1	1.3	7.0	...			
	23	1	3.4	6.0	1	2.9	6.1	1	1.1	6.5	...			
10	0	1	2.6	6.0	1	2.9	6.1	1	1.5	7.0	3	1.5	5.5	
	1	1	3.8	6.5	1	2.9	6.1	1	1.1	6.8	...			
	2	1	5.7	7.0	1	2.6	6.1	1	1.2	6.7	...			
	3	1	4.1	6.0	1	2.6	6.0	1	1.1	7.4	...			
	4	1	4.2	7.0	1	3.0	6.0	1	1.2	7.0	...			
	5	1	3.4	6.2	1	3.9	6.2	1	1.2	6.9	...			
	6	1	3.4	6.0	1	3.0	6.0	1	1.0	7.5	3	1.4	5.0	
	7	1	3.1	6.0	1	2.6	6.0	1	1.0	7.2	...			
	8	1	3.9	6.0	1	2.8	6.4	1	1.2	7.0	...			
	9	1	3.9	6.0	1	2.7	6.1	1	1.1	7.2	...			
	10	1	4.5	6.3	1	3.0	7.0	1	1.0	7.5	...			
	11	1	2.9	5.8	1	2.8	6.4	1	1.0	7.6	...			

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 10	12	1	3.2	5.5	1	2.7	6.2	1	1.0	7.0	3	1.2	5.0	
	13	1	3.4	6.5	1	2.6	6.0	1	1.1	7.2	...			
	14	1	3.6	6.0	1	3.2	6.0	1	1.1	7.4	...			
	15	1	3.0	5.5	1	3.3	6.0	1	0.9	7.0	...			
	16	3	2.7	5.8	1	3.0	6.0	1	1.1	7.5	...			
	17	3	2.6	5.7	1	2.1	6.0	1	1.0	7.4	...			
	18	3	1.3	4.1	1	2.1	6.0	1	0.9	6.6	3	1.1	5.0	
	19	3	2.0	5.0	1	2.1	6.0	1	0.7	6.6	...			
	20	3	2.6	6.0	1	2.1	6.0	1	0.8	7.4	...			
	21	1	3.6	6.0	1	2.1	6.0	1	0.8	7.1	...			
	22	1	2.2	5.0	1	2.1	6.0	1	0.8	6.4	...			
	23	1	1.5	4.8	1	2.1	6.0	1	0.7	6.9	...			
11	0	3	2.0	5.2	1	2.1	6.0	1	0.7	6.8	3	1.0	5.0	
	6	1	5.6	6.4	1	2.6	6.0	1	0.9	6.2	3	1.0	5.0	Halifax storm start
	12	1	5.1	6.0	1	2.3	6.0	1	0.7	6.0	3	0.9	5.0	
	18	1	4.1	6.0	1	2.6	6.0	1	0.5	6.0	3	0.7	5.0	
12	0	1	3.2	5.5	1	4.4	6.0	1	0.7	6.0	3	0.9	4.5	
	6	1	6.2	6.5	1	4.9	6.0	1	1.1	5.9	3	0.9	4.5	
	12	1	6.5	6.0	1	3.4	5.9	1	1.0	6.0	3	0.8	4.0	
	18	1	2.5	5.0	1	2.6	6.0	1	1.0	6.1	3	1.4	3.0	
13	0	1	3.0	5.0	1	3.5	6.0	1	1.3	6.1	3	2.0	4.0	Halifax storm end
	6	3	2.9	5.8	1	3.2	6.0	1	1.1	6.4	3	2.2	4.0	
	12	1	1.4	4.4	1	3.7	6.0	1	1.0	6.4	3	1.3	4.0	
	18	3	1.4	4.2	1	3.5	5.5	1	0.6	6.4	3	1.0	4.0	
14	0	1	1.0	4.5	1	3.2	5.5	1	0.6	5.9	3	1.0	4.0	
	6	1	1.7	5.0	1	2.1	4.5	1	0.5	5.8	3	0.9	4.0	
	12	1	0.7	4.5	1	2.2	5.0	1	0.5	5.6	3	0.7	4.0	

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 14	18	1	2.2	5.5	1	2.3	5.4	1	0.4	5.8	3	0.6	4.0	
15	0	1	2.2	5.0	1	2.8	5.4	1	0.6	6.1	3	2.5	6.5	
	6	1	1.2	5.4	1	3.4	6.5	1	0.8	6.9	3	1.8	6.5	Resolute storm start
	9							1	1.2	6.6				
	12	1	1.1	5.1	1	3.4	6.5	1	1.6	7.1	3	2.5	7.5	
	15							1	2.0	7.3				
	18	1	1.0	5.0	1	3.7	6.2	2	2.2	7.2	3	2.8	7.5	
	21							2	2.0	7.4				
16	0	1	2.6	6.0	1	3.0	5.9	2	2.2	7.6	3	2.7	7.0	Halifax storm start
	3							2	2.6	7.8				
	6	1	3.6	6.0	1	4.5	6.1	2	2.3	7.6	3	2.4	7.0	
	9							2	3.1	7.8				
	12	1	3.2	5.5	1	5.5	6.7	2	4.0	8.0	3	3.4	7.5	
	15							2	3.6	7.8				
	18	1	4.1	6.0	1	5.8	7.0	...			3	3.5	7.5	
	21							2	2.6	7.6				
17	0	1	3.6	6.0	1	5.8	7.0	2	2.3	7.5	3	3.2	7.5	
	3							2	2.2	7.4				
	6	1	3.7	6.2	1	4.5	6.0	2	1.7	7.2	3	3.1	7.5	
	9							2	1.1	7.1				
	12	1	1.3	3.0	1	4.5	6.2	2	1.2	6.6	3	2.3	7.0	
	15							...						
	18	1	1.3	3.0	1	2.8	4.9	1	1.0	6.8	3	1.0	4.5	
	21							...						
18	0	1	1.6	4.0	1	3.7	5.4	1	1.3	6.2	3	1.0	4.0	
	3							1	1.3	6.4				
	6	1	2.9	4.5	1	4.4	6.0	1	1.8	6.4	3	1.1	3.5	

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 18	9							1	1.8	6.3				
	12	1	5.1	6.0	1	4.7	6.0	1	2.2	6.4	3	1.3	3.5	
	15							1	2.0	7.4				
	18	1	1.6	4.2	1	3.8	6.0	1	2.0	6.8	3	1.1	3.5	
	21							1	2.2	7.0				
19	0	1	0.7	3.2	1	3.7	6.0	1	2.5	6.5	3	0.9	3.5	Halifax storm end
	3							1	2.1	6.5				
	6	1	1.1	4.0	1	2.8	6.0	1	2.1	6.4	3	0.9	3.5	
	9							1	1.8	6.7				
	12	1	0.4	2.8	1	2.8	6.0	1	1.4	7.1	3	0.9	3.5	
	15							1	1.4	6.8				
	18	1	0.7	4.0	1	2.6	6.0	1	1.1	6.5	3	0.8	3.5	Resolute storm end
20	0	1	0.4	3.5	1	1.8	6.0	1	0.8	6.2	3	0.6	3.5	
	6	1	0.5	3.5	1	1.2	4.2	1	0.7	6.4	3	0.6	3.5	
	12	1	0.8	4.0	1	1.2	4.0	1	0.6	6.5	3	0.7	3.5	
	18	1	0.7	3.0	3	0.9	4.0	...			3	0.7	3.5	
21	0	1	0.5	3.3	3	0.9	4.0	1	0.6	7.0	3	0.7	3.5	
	6	1	0.5	4.0	3	0.9	4.0	1	0.6	7.2	3	0.8	3.5	
	12	1	0.5	4.0	3	0.9	4.0	...			3	0.8	4.0	
	18	1	0.8	4.0	3	0.8	4.0	1	0.5	7.4	3	0.9	4.0	
22	0	1	0.4	2.5	3	0.6	3.0	1	0.6	7.0	3	0.9	4.0	
	6	...			...			...			...			
	12	1	1.4	4.0	3	0.7	3.5	1	0.5	7.0	3	0.8	4.0	
	18	1	2.6	4.5	3	1.1	3.8	1	0.5	6.8	3	0.6	4.0	Halifax storm start
23	0	1	2.0	4.0	1	1.4	4.0	1	0.5	6.2	3	0.6	4.0	
	6	1	2.6	4.5	1	1.6	4.0	1	0.6	5.9	3	0.7	4.0	
	12	1	1.6	4.6	1	1.7	4.0	1	1.2	6.7	3	0.9	4.0	Resolute storm start

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 23	18	1	2.6	4.5	1	1.7	4.0	1	1.8	6.9	3	0.6	3.5	
	21							1	1.7	7.0				
24	0	1	2.4	4.8	1	1.9	4.5	1	1.4	6.9	3	0.7	3.5	
	3							2	1.9	6.8				
	6	1	1.6	4.0	1	2.6	6.0	...			3	0.8	3.5	
	9							2	2.4	7.0				
	12	1	0.9	4.0	1	2.6	6.0	2	2.3	7.8	3	1.1	3.5	
	15							2	2.4	7.8				
	18	1	0.8	4.0	1	1.4	5.0	2	2.0	7.3	3	1.4	5.0	Halifax storm end
	21							...						
25	0	1	0.4	3.0	3	0.9	4.0	1	1.1	7.4	3	1.7	5.5	Resolute storm end
	6	1	0.6	4.0	3	0.9	4.0	1	0.9	7.2	3	1.4	5.5	
	12	1	0.6	4.0	3	0.6	4.0	1	0.8	6.8	3	1.3	5.5	
	18	1	0.2	2.0	3	0.6	4.0	1	0.6	6.6	3	1.2	5.0	
26	0	1	1.0	4.8	3	0.5	3.8	1	0.5	7.2	3	1.1	5.0	
	6	1	0.5	3.0	3	0.7	3.5	1	0.5	7.0	3	1.2	5.0	
	12	1	1.0	3.5	1	1.2	3.7	1	0.5	6.7	3	1.2	5.0	
	18	1	0.9	4.0	1	1.4	4.0	1	0.5	6.4	3	0.9	5.0	
27	0	1	1.5	4.5	1	1.7	5.0	1	0.5	6.5	3	0.9	4.5	
	6	1	0.7	4.0	1	2.0	5.8	3	0.8	7.2	3	0.4	3.0	Resolute storm start
	9							3	1.3	8.6				
	12	3	0.5	4.0	3	2.0	5.8	3	1.6	8.3	3	2.4	7.0	
	15							3	1.5	8.0				
	18	3	0.4	4.0	3	3.5	8.0	2	2.0	7.8	3	2.8	7.0	
	21							2	1.7	7.8				
28	0	3	0.4	4.0	3	2.0	7.0	2	1.4	7.8	3	2.7	7.0	

DATE	HOUR	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
January 28	3							2	1.3	7.8				
	6	3	0.1	2.0	3	2.0	7.0	2	1.5	7.2	3	2.2	7.0	
	9							2	1.2	6.8				
	12	3	0.2	2.5	3	1.2	6.0	2	1.3	7.3	3	2.1	7.0	
	15							2	1.2	7.0				
	18	3	0.1	2.2	3	0.5	3.2	1	0.8	6.8	3	2.1	7.0	Resolute storm end
29	0	1	0.3	2.5	3	0.5	3.2	1	0.6	7.2	3	1.3	5.0	
	6	1	0.3	2.0	3	0.4	3.0	1	0.6	7.0	3	1.0	5.0	
	12	1	0.3	2.5	3	0.4	3.0	1	0.5	7.2	3	0.8	5.0	
	18	1	0.5	3.0	3	0.3	3.0	1	0.5	6.4	3	0.7	4.0	
30	0	1	0.5	4.0	...			...			...			
	6	3	0.2	3.0	3	1.0	5.0	1	0.4	7.2	3	0.5	3.5	
	12	0,0			3	0.7	5.0	1	0.5	7.6	3	0.5	3.5	
	18	3	0.5	3.0	3	0.5	3.2	1	0.8	7.8	3	0.7	3.5	
31	0	1	0.5	3.0	3	0.5	3.2	...			...			
	6	1	1.5	4.0	1	1.1	3.7	1	1.2	7.4	3	1.1	4.5	
	12	1	1.4	4.0	1	1.6	4.0	1	1.1	7.4	3	1.1	4.5	
	18	1	2.3	4.0	1	1.7	4.0	1	0.7	6.6	3	1.6	5.5	
	24	3	1.4	4.0	1	2.7	5.0	1	0.8	6.4	3	1.0	5.5	

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Feb. 1	0	1	2.7	5.0	1	0.8	6.4	3	1.0	5.5
	6	1	4.4	6.0	1	0.8	6.3	3	1.1	5.5
	12	1	5.6	6.5	1	1.3	6.6	3	1.1	5.5
	18	1	5.3	6.1	1	1.0	7.6	3	1.1	3
2	0	1	5.2	6.0	1	1.0	7.0	3	0.8	3
	6	1	3.7	5.9	1	0.9	6.8	3	0.7	3
	12	1	2.9	5.9	1	0.7	6.3	2	0.8	3
	18	1	2.4	5.9	1	0.6	6.3	2	0.6	3.5
3	0	1	1.6	5.6	1	0.6	6.2	2	0.7	3.0
	6	1	1.6	5.5	1	0.6	6.0	3	0.7	3.0
	12	1	1.2	5.0	1	0.6	6.3	3	1.0	3.5
	18	3	0.9	4.0	1	0.5	6.4	3	0.7	3.5
4	0	3	0.9	4.0	1	0.6	6.0	3	0.8	3.0
	6	3	0.6	3.0	1	0.6	6.3	3	0.3	2.0
	12	3	0.6	3.0	1	0.7	6.5	3	0.8	2.5
	18	3	0.9	4.0	1	0.6	6.8	3	0.8	4.5
5	0	3	0.8	3.8	1	0.7	6.8	3	0.9	5
	6	3	0.9	4.0	1	0.6	6.2	3	0.8	5
	12	3	1.2	4.8	1	0.7	6.8	3	0.2	5
	18	1	2.1	5.0	1	0.7	6.1	3	1.4	7
6	0	1	3.5	6.0	1	1.1	6.4	3	1.2	6
	6	1	3.5	6.0	1	0.9	6.1	3	0.9	5
	12	1	2.6	6.0	1	0.9	6.4	3	0.9	5
	18	3	1.8	6.0	1	0.7	6.4	3	0.9	5
7	0	3	2.9	5.0	1	0.7	6.2	3	1.0	5
	6	3	2.3	5.0	1	0.7	6.0	3	0.9	5
	12	...			...			...		
	18	3	1.0	4.0	1	0.5	5.7	3	0.8	5
8	0	3	1.3	5.0	1	0.5	5.8	3	0.9	5
	6	1	4.0	6.0	1	0.6	6.1	3	1.0	6
	12	1	4.7	6.0	1	0.7	6.8	3	1.2	6
	18	1	5.7	6.7	2	1.0	7.1	3	1.2	6
9	0	1	10.0	7.0	2	2.2	7.5	1	1.7	7
	6	1	10.8	7.5	2	2.2	7.4	1	1.9	7
	12	1	6.0	7.0	2	1.3	7.0	3	0.8	5
	18	1	4.6	7.0	1	0.8	7.3	3	0.9	5
10	0	1	3.0	6.0	1	0.8	6.9	3	0.8	5
	6	1	3.5	6.0	1	0.7	7.3	3	1.2	6
	12	1	2.9	6.4	1	0.8	7.8	1	1.4	6
	18	1	0.5	1.8	1	0.7	7.4	3	1.2	6
11	0	1	0.5	1.8	1	0.6	7.6	3	1.1	5
	6	1	1.1	3.0	1	0.7	6.7	3	0.9	5
	12	1	1.9	4.5	1	0.8	6.4	3	0.9	5
	18	1	2.2	4.0	1	0.7	6.0	3	1.1	6

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Feb. 12	0	1	2.9	4.0	1	0.7	6.1	3	1.2	6
	6	1	3.1	4.5	1	0.8	6.1	3	0.7	5
	12	1	2.6	4.5	1	0.7	6.5	3	0.7	5
	18	1	4.4	6.0	1	1.0	6.7	3	0.7	4
13	0	3	2.8	6.0	1	1.1	6.6	2	1.2	4
	6	3	2.6	6.0	1	0.9	6.4	2	1.4	4
	12	3	1.5	4.4	1	1.0	6.3	2	1.5	4
	18	1	1.0	4.0	1	0.7	6.4	2	2.3	5
14	0	1	0.9	4.0	...			2	2.6	5
	6	1	1.7	5.0	1	1.1	6.7	2	2.6	5+
	12	1	1.9	5.5	1	1.0	6.4	2	2.8	6
	18	1	1.4	5.0	1	0.9	6.5	2	2.4	6
15	0	1	2.4	5.2	1	0.8	6.4	2	1.6	5
	6	...			...			...		
	12	1	1.3	5.0	1	0.8	7.0	2	1.1	5
	18	1	1.2	3.3	1	0.9	7.1	2	1.0	5
16	0	1	4.9	4.5	1	1.1	5.3	2	1.2	6
	6	1	6.2	5.5	1	2.1	6.0	2	1.2	6
	12	1	5.2	6.0	1	1.5	6.2	2	1.2	6
	18	1	7.1	6.0	1	1.1	6.2	2	1.4	5
17	0	1	6.5	6.7	1	1.1	6.9	2	2.0	6
	6	1	5.6	6.7	1	1.0	7.1	2	2.3	6
	12	1	5.8	7.0	1	1.8	7.6	2	2.0	6
	18	1	3.4	7.8	1	2.6	7.5	2	2.1	6
18	0	1	2.3	6.1	1	2.3	7.5	2	2.3	6
	6	1	1.8	6.1	1	1.7	7.3	2	1.9	6
	12	1	1.8	6.0	1	1.3	6.8	2	2.0	6
	18	3	1.0	3.6	...			2	1.9	6
19	0	3	0.7	3.4	...			2	1.5	5.5
	6	1	0.1	3.3	1	0.6	6.8	3	1.1	5
	12	1	0.8	4.0	1	0.7	6.5	3	0.9	5
	18	1	2.9	4.0	1	0.7	6.4	3	0.8	5
20	0	1	2.3	4.0	1	0.7	6.2	3	0.9	5
	6	1	2.5	5.1	1	0.8	6.3	3	0.8	5
	12	1	2.9	5.0	1	0.8	6.0	3	0.7	5
	18	1	3.4	5.8	1	1.1	6.2	3	0.8	5
21	0	1	3.3	6.0	1	1.6	6.4	3	1.0	5
	6	1	2.6	5.6	1	1.4	6.1	3	0.9	5
	12	1	2.7	5.7	1	2.2	6.4	3	0.9	5
	18	...			1	2.2	6.3	3	1.0	5
22	0	1	2.7	5.7	1	1.8	6.2	3	1.1	5
	6	3	2.4	5.5	1	1.4	6.6	2	1.2	5.5
	12	3	2.4	5.5	3	1.8	8.8	2	1.8	8.5
	18	3	1.8	4.5	2	2.2	8.6	2	2.0	8.5

SEISMOLOGICAL BULLETIN - 1959

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Feb. 23	0	3	1.8	4.5	2	1.8	8.8	2	2.2	8
	6	3	2.1	4.5	2	1.3	8.2	2	1.6	8
	12	3	1.6	5.0	2	1.1	7.6	3	1.8	7
	18	3	1.6	5.5	1	0.9	7.6	3	1.6	7
24	0	3	1.6	5.5	3	0.7	7.3	3	1.6	7
	6	3	1.8	5.5	1	0.8	7.4	3	1.3	5.5
	12	3	0.9	4.0	1	0.7	6.8	3	1.2	5.0
	18	3	1.1	3.4	1	0.8	6.8	3	1.5	6
25	0	1	1.5	3.4	1	1.0	6.8	3	1.4	6
	6	1	1.4	3.4	1	0.8	6.6	2	1.6	6.5
	12	1	1.8	3.8	1	0.6	7.2	2	1.3	6.5
	18	1	1.3	4.0	1	1.3	7.3	2	2.1	7
26	0	3	3.2	7.5	2	2.3	7.8	3	2.7	7
	6	3	2.4	7.5	2	1.7	7.6	2	2.9	7.5
	12	3	1.6	7.0	1	0.5	6.9	3	1.8	6.5
	18	3	0.6	4.0	1	0.5	6.5	3	2.2	7
27	0	3	0.5	4.0	1	0.7	7.0	3	1.5	6.2
	6	3	0.5	4.0	1	1.1	7.2	3	1.2	6.0
	12	3	0.5	4.0	1	0.5	6.5	3	1.1	5.5
	18	3	0.5	4.0	1	0.3	7.2	...		
28	0	3	0.5	4.0	1	0.5	6.6	...		
	6	3	0.6	4.0	1	0.8	7.0	...		
	12	3	1.0	5.8	1	1.1	7.4	...		
	18	3	1.1	6.0	1	1.0	6.7	...		
March 1	0	3	1.1	6.0	1	0.8	7.0	3	1.0	4.9
	6	3	0.9	6.0	1	0.7	7.0	3	1.2	5.0
	12	3	0.9	6.0	1	0.7	6.4	3	1.4	5.5
	18	3			...			...		
2	0	3	0.9	4.0	1	1.1	7.2	3	1.4	5.5
	6	3	1.0	4.0	1	0.9	7.2	3	1.6	5.5
	12	3	1.0	3.4	1	1.4	7.0	3	1.5	5.0
	18	3	1.1	4.0	1	1.6	7.3	3	1.4	5.0
3	0	3	3.5	6.0	...			2	3.2	7.5
	6	1	7.0	8.0	2-3	5.2	8.0	2	4.5	7.8
	12	1	3.4	5.3	2	3.3	8.0	2	3.8	7.5
	18	1	4.0	6.0	2	2.4	7.7	2	2.5	6.4
4	0	1	3.0	5.0	2	2.1	6.8	3	2.0	6.5
	6	1	3.2	5.0	1	1.5	6.5	3	1.7	6.0
	12	1	3.0	5.0	1	1.2	6.8	3	1.5	6.0
	18	1	3.4	4.9	1	1.0	6.4	3	1.5	5.5
5	0	1	3.5	5.0	1	1.25	6.3	3	1.0	5.0
	6	1	3.5	5.0	1	1.1	6.1	3	0.8	5.0
	12	3	1.3	4.0	1	1.35	6.5	3	0.6	4.2
	18	3	1.0	4.0	1	1.0	6.6	3	0.8	5.1

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
March 6	0	3	0.9	4.0	...			3	0.9	5.0
	6	3	1.9	4.1	1	0.7	6.3	3	0.9	5.0
	12	3	1.4	5.0	1	0.7	5.9	3	0.7	4.8
	18	3	2.6	6.0	1	0.8	5.8	3	0.9	5.0
7	0	3	2.2	5.0	1	0.8	5.8	3	0.9	5.5
	6	3	1.6	4.0	1	0.8	6.3	3	1.0	5.5
	12	3	1.6	4.0	1	1.0	6.5	3	0.9	5.0
	18	1	1.5	4.0	1	0.9	6.5	3	0.8	5.5
8	0	1	1.5	4.0	1	0.9	6.4	3	0.9	5.3
	6	1	1.6	4.5	1	0.8	6.0	3	0.8	4.5
	12	3	1.9	4.4	1	0.8	6.6	2	1.0	4.0
	18	3	2.2	5.0	1	1.5	7.4	2	1.7	4.8
9	0	3	1.4	5.0	1	1.25	7.1	2	1.8	5.1
	6	3	1.4	4.8	1	0.95	6.8	2	1.5	5.5
	12	3	1.0	4.8	1	0.6	6.7	3	1.3	5.1
	18	3	1.0	5.0	1	0.8	6.6	...		
10	0	3	1.2	5.0	1	0.7	6.6	...		
	6	3	1.7	5.7	1	0.7	6.6	...		
	12	3	1.7	5.7	1	0.8	6.9	...		
	18	...			1	0.6	6.2	...		
11	0	...			...			3	0.9	4.5
	6	...			1	0.5	6.4	3	0.7	3.5
	12	...			1	0.55	6.7	3	0.9	3.8
	18	...			1	1.3	6.2	3	1.0	4.0
12	0	3	1.9	5.4	1	1.35	6.6	3	1.0	4.1
	6	3	1.9	5.4	1	1.4	6.8	3	1.0	4.5
	12	3	1.9	5.4	1	1.2	6.6	3	1.3	5.1
	18	...			1	1.15	7.0	3	1.9	6.5
13	0	...			1	0.9	6.4	3	1.2	5.0
	6	...			1	1.1	6.0	3	1.6	6.0
	12	...			1	1.2	6.1	3	1.0	5.5
	18	...			1	1.2	6.0	3	1.2	5.0
14	0	1	5.5	5.0	1	1.2	6.9	3	1.1	5.0
	6	1	4.8	5.5	1	1.4	6.4	3	1.2	5.5
	12	1	5.2	6.0	1	1.1	6.4	3	0.8	5.0
	18	1	4.4	6.0	1	0.95	6.2	3	0.7	5.0
15	0	1	4.4	6.0	1	0.8	6.3	3	0.8	4.5
	6	1	5.2	6.0	1	0.8	6.0	3	0.8	4.0
	12	1	5.4	6.0	1	0.8	6.2	3	0.9	4.5
	18	1	3.5	6.0	1	0.65	6.1	3	1.0	4.0
16	0	1	3.5	6.0	1	0.5	6.0	3	0.9	5.0
	6	1	3.5	6.0	1	0.6	6.2	3	0.8	5.0
	12	3	2.8	6.0	1	0.5	6.1	3	0.6	5.0
	18	...			1	0.5	6.2	3	0.6	5.0

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
March 17	0	3	1.0	3.6	...			3	0.6	4.5
	6	1	1.1	3.9	1	0.4	5.8	3	0.8	4.8
	12	1	1.3	4.1	1	0.45	6.0	3	1.0	5.2
	18	...			1	0.6	5.0	3	0.9	4.0
18	0	3	1.4	5.0	1	0.65	5.4	3	0.9	4.1
	6	3	1.6	5.0	1	0.95	5.6	3	0.9	4.3
	12	1	2.5	5.5	1	0.9	5.7	3	0.9	5.0
	18	1	2.2	5.1	1	0.9	5.7	3	0.7	5.0
19	0	1	2.4	5.5	1	0.7	5.6	3	0.8	5.0
	6	1	2.2	5.0	1	0.5	5.7	3	0.8	4.5
	12	3	1.3	4.5	1	0.4	5.7	3	0.8	4.8
	18	3	1.0	4.5	1	0.4	5.4	3	0.9	5.2
20	0	3	0.8	4.2	1	0.35	5.6	3	0.8	4.8
	6	3	1.3	5.0	1	0.4	5.3	3	0.8	4.8
	12	3	1.2	5.0	1	0.7	5.8	3	0.9	4.0
	18	3	1.6	6.0	1	0.65	6.0	2	1.1	4.5
21	0	3	1.8	6.0	1	0.65	6.0	2	1.2	4.8
	6	3	1.8	6.0	1	0.8	6.2	2	1.6	5.0
	12	3	1.8	6.0	1	0.7	6.5	2	1.2	5.0
	18	3	1.8	6.0	1	0.7	6.6	3	1.4	5.0
March 22	0	3	1.8	6.0	1	0.7	5.9	3	1.1	4.2
	6	3	1.1	6.0	1	0.65	6.0	3	1.0	4.1
	12	1	1.7	4.0	1	0.6	6.3	3	1.1	5.0
	18	1	1.7	4.0	1	0.5	5.6	3	0.8	5.0
23	0	1	2.2	5.0	1	0.5	5.6	3	0.9	6.0
	6	1	2.0	4.6	1	0.6	5.4	3	0.8	5.5
	12	1	1.6	4.7	1	0.6	5.7	3	0.6	5.5
	18	1	1.8	5.1	1	0.6	6.2	3	0.7	5.0
24	0	1	1.8	5.1	3	0.9	8.2	3	1.5	8.0
	6	1	2.7	5.4	3	1.0	7.0	3	2.1	8.5
	12	1	2.9	5.9	3	1.15	6.9	3	1.6	7.5
	18	...			...			3	1.2	6.0
25	0	1	3.4	5.8	1	1.0	6.2	3	0.9	5.0
	6	1	3.4	5.4	1	1.0	6.0	3	0.8	5.1
	12	1	2.8	5.7	1	0.7	6.1	3	0.8	4.5
	18	...			1	0.6	6.4	3	0.9	4.5
26	0	3	2.7	5.8	1	0.7	5.9	3	1.0	4.8
	6	3	1.9	5.0	1	0.6	6.3	3	1.0	5.0
	12	3	2.1	6.0	1	0.5	6.0	3	1.0	4.5
	18	3	2.1	6.0	1	0.5	5.8	3	0.9	3.9
27	0	3	0.4	3.0	1	0.5	6.2	3	0.8	4.1
	6	3	0.5	3.0	1	0.6	6.6	3	0.8	4.1
	12	3	0.6	3.0	1	0.6	6.2	3	0.9	4.5
	18	3	0.6	3.0	1	0.8	6.2	2	0.9	3.5

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
March 28	0	1	2.2	3.9	...			2	1.2	3.8
	6	1	5.2	4.5	1	0.8	6.1	2	1.2	4.0
	12	1	12.7	5.5	2	1.6	5.7	2	1.1	4.1
	18	...			2	2.0	6.3	3	1.0	4.5
29	0	1	8.8	5.5	2	1.8	6.2	3	1.1	5.0
	6	1	8.4	5.8	2	1.7	6.2	3	1.1	5.0
	12	1	7.6	5.6	2	1.5	6.4	3	1.2	5.0
	18	1	6.1	5.3	...			3	0.8	5.0
30	0	1	5.3	6.1	2	1.05	6.4	2	0.9	4.5
	6	1	4.2	5.8	1	0.9	6.3	2	1.9	5.0
	12	1	3.5	6.0	1	0.8	6.8	2	2.3	5.2
	18	3	2.0	5.7	1	0.6	6.1	2	1.4	4.8
31	0	3	1.4	5.0	1	0.5	6.4	2	1.5	5.0
	6	3	0.9	4.0	1	0.5	6.6	2	1.5	5.1
	12	3	0.9	4.0	1	0.6	6.5	3	1.1	4.5
	18	...			1	0.5	6.8	3	0.8	4.5
	24	3	0.8	3.4	1	0.6	6.4	3	0.9	5.2

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SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

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1959

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1960

SEISMOLOGICAL BULLETIN

APRIL - JUNE - 1959

NOTES

1. I.G.Y. microseismic data starting page 153.
2. Earthquakes in the Canadian arctic may be found in their respective chronological position in the bulletin with epicentre locations found on pages 148 and 149.
3. Earthquakes in Eastern Canada and Adjacent areas may be found in their respective chronological position in the bulletin with epicentre locations found on page 150.
4. Earthquakes in Western Canada and Adjacent areas may be found in their respective chronological position in the bulletin with epicentre locations found on pages 151 and 152.
5. Seven Falls no time signals from April 5 to May 5. The approximate corrections is +5 seconds per day.

DOMINION OBSERVATORIES

APRIL 1
U.S.C.G.S.
27 1/2N, 21W
Canary Islands
H = 00 34 18
Mag 6 1/4
Banff
eP 00 45 40 c
Halifax
iP 00 41 39 d
eP 00 41 39.5 c
i 00 42 18
iPP 00 43 08
ePPP 00 43 39
eS 00 47 30
e 00 48 53
eSS 00 50 05
eL 00 52.6
Ottawa
eP 00 42 50
P_cP 00 44 25
Resolute
iP 00 44 23.5 d
iS 00 52 28
S_cS 00 54 15
SS 00 56 25
eL 00 59 09
Seven Falls
eP 00 42 24
PP 00 44 13
Shawinigan Falls
eP 00 42 35 c
Victoria
eP 00 46 23

APRIL 1
Resolute
eP 04 25 29

APRIL 1
Victoria
eP 06 15 31

APRIL 1
Resolute
eP 11 13 16

APRIL 1
U.S.C.G.S.
Near east coast
of Kamchatka
H = 12 19 29
Resolute
eP 12 27 03
eP_cP 12 29 08
e 12 33 28

APRIL 1
U.S.C.G.S.
48S, 98 1/2E
Indian Ocean
H = 14 11 30
Resolute
eP' 14 31 29

APRIL 1
U.S.C.G.S.
18 1/2S, 169E
New Hebrides Islands
H = 14 48 34
h = 200 km
Horseshoe Bay
eP 15 01 18
Lillooet
eP 15 01 26
Resolute
eP' 15 06.7

APRIL 1
Resolute
eP 16 51 58

APRIL 1
U.S.C.G.S.
40N, 120W
California
H = 18 18 28
Mag 6
Banff
eP 18 21 24
Horseshoe Bay
eP 18 20 57
Lillooet
eP 18 21 13
Ottawa
eP 18 25 08
Resolute
iP 18 25 40 d
i 18 25 44
e 18 37 39
eL 18 38 42
Seven Falls
eP 18 25 33
Shawinigan Falls
eP 18 25 25
Victoria
eP 18 20 56

APRIL 1
Resolute
eP 22 47.5

APRIL 1
U.S.C.G.S.
6S, 154E
Solomon Islands
H = 23 33 45
h = 100 km
Ottawa
eP' 23 52 31
Resolute
eP 23 47 30
eG 24 16.0

APRIL 2
Resolute
eP 00 03 38
e 00 04 03

APRIL 2
Resolute
eP 02 03 12

APRIL 2
U.S.C.G.S.
26N, 125E
Ryukyu Islands region
H = 04 02 31
Resolute
iP 04 14 23 c

APRIL 2
U.S.C.G.S.
40N, 29E
Northwestern Turkey
H = 04 34 20
Resolute
eP 04 44 28
Seven Falls
eP 04 45 22

APRIL 2
Resolute
eP 06 25 34.5

APRIL 2
U.S.C.G.S.
8S, 129E
Timor Island
H = 12 00 51
Resolute
eP 12 15 20
e 12 19 24

APRIL 2
U.S.C.G.S.
20 1/2N, 121E
Batan Island region
H = 19 21 34
Resolute
iP 19 33 59 c
iP 19 34 05
eS 19 44 10
eL 19 49.5

APRIL 2
U.S.C.G.S.
Tonga Islands
H = 21 48 20
Banff
eP 22 01 19
Horseshoe Bay
eP 22 00 56
Resolute
eP 21 56 37

APRIL 2
Resolute
eP 23 33 04

APRIL 3
51 1/2N, 179E
Rat Islands,
Aleutian Islands
H = 01 27 06
Banff
eP 01 34 40
Horseshoe Bay
eP 01 34 10
Lillooet
eP 01 34 24 (c)
e 01 36 48
Resolute
iP 01 34 46.5 c
P_cP 01 36 50
eS 01 40 35
eL 01 44.0
Seven Falls
eP 01 37 49
Shawinigan Falls
eP 01 37 44
Victoria
eP 01 34 13

APRIL 3
Resolute
eP 02 46 16

APRIL 3
Resolute
iP 03 50 11.5 c

APRIL 3
U.S.C.G.S.
51N, 179E
Rat Islands,
Aleutian Islands
H = 05 19 05
Resolute
eP 05 26 46
(eS) 05 32 35.5
(eL) 05 40.5

APRIL 3
U.S.C.G.S.
24N, 122E
Near east coast of
Formosa
H = 05 48 45
h = 200 km
Resolute
eP 06 00 28

APRIL 3
Resolute
iP 12 53 12 c

APRIL 3
Resolute
eP 14 55 47 c

APRIL 3
Resolute
eP 16 17 53

APRIL 3
Resolute
eP 18 55 28

DOMINION OBSERVATORIES

APRIL 3
U.S.C.G.S.
4S, 81W
Near coast of
Northern Peru
H = 19 33 50
Resolute
eP 19 45 54

APRIL 3
Resolute
eP 21 25 12
e 21 26 48

APRIL 4
Resolute
eP 01 58 20

APRIL 4
48°40'N, 123°42'W
Gulf Islands
H = 02 04 58
Mag 2.2
Alberni
iP 02 05 21.1 d
iS 02 05 38.1
D = 139 km
Horseshoe Bay
iP 02 05 11.5
D = 75 km
Victoria
iP 02 05 04.3 c, N, W
iS 02 05 08.8
D = 18 km

APRIL 4
U.S.C.G.S.
Brazil-Peru border
H = 03 08 44
Resolute
eP 03 17 40
e 03 21 18

APRIL 4
Resolute
eP 04 02 57

APRIL 4
Resolute
eP 05 04 30

APRIL 4
Resolute
iP 11 00 50 c

APRIL 4
48°58'N, 121°54'W
East of Sumas District
H = 13 29 23
Mag 2.7
Alberni
eP 13 29 57.2
eS 13 30 23.1
D = 228 km
Banff
eS 13 31 24.4
e 13 31 44.8
D = 521 km
Horseshoe Bay
iP 13 29 40.9
D = 112 km
Lillooet
iP 13 29 53.3
iS 13 30 16.6
D = 194 km
Victoria
eP 13 29 42.4
eS 13 29 58.7
D = 121 km

APRIL 4
48°50'N, 122°12'W
East of Bellingham
H = 13 34 11
Mag 2.0
Alberni
eP 13 34 (39.3)
D = 171 km

Horseshoe Bay
eP 13 34 27.4
eS 13 34 39.5
D = 100 km
Lillooet
iP 13 34 45.2
eS 13 35 09.4
D = 218 km
Victoria
eP 13 34 27.4
eS 13 34 38.8
D = 97 km

APRIL 4
Resolute
eP 19 00 44

APRIL 4
U.S.C.G.S.
54N, 161E
Near east coast of
Kamchatka
H = 19 04 59
Resolute
eP 19 12 56
eL 19 22.6

APRIL 4
48.7N, 123.6W
Northwest of Victoria
H = 20 25 38
Alberni
eP 20 25 59.6
eS 20 26 13.6
D = 118 km
Horseshoe Bay
iP 20 25 54.3 c
D = 85 km
Victoria
iP 20 25 45.5
iS 20 25 51.0
D = 30 km

APRIL 4
Resolute
eP 23 30 11
e 23 33 55

APRIL 4
Resolute
iP 05 20 50.5 c
e 05 36.0

APRIL 5
U.S.C.G.S.
52 1/2N, 169 1/2W
Fox Islands,
Aleutian Islands
H = 05 37 18
Resolute
eP 05 44 25.5
P_cP 05 46 49
eL 05 53.8

APRIL 5
Resolute
eP 10 45 23 c

APRIL 5
U.S.C.G.S.
44N, 7E
Southeastern France
H = 10 47 52
Resolute
eP 10 56 55
eS 11 04.3
eL 11 08.4
Seven Falls
eP 10 57 (07)
Victoria
eP 10 59 51

APRIL 5
Resolute
eP 11 50 17 d

APRIL 5
U.S.C.G.S.
46N, 151E
Kurile Islands
H = 19 59 58
Resolute
iP 20 09 12 c

APRIL 5
U.S.C.G.S.
6N, 77 1/2W
Near west coast
of Colombia
H = 20 32 48
Resolute
eP 20 43.8

APRIL 5
Resolute
eP 21 17 18

APRIL 5
U.S.C.G.S.
15 1/2S, 167 1/2E
New Hebrides Islands
H = 21 05 54
h = 150 km
Resolute
(eP') 21 24 06
e 21 26 20
Seven Falls
iP' 21 24 (29) c

APRIL 5
Resolute
iP 21 35 25
e 21 35 41

APRIL 5
U.S.C.G.S.
5 1/2S, 146E
Near north coast of
New Guinea
H = 23 29 25
Ottawa
eP' 23 48 19
Resolute
eP 23 43 23
PP 23 47 30
SKS 23 54 15
PS 23 56 45
SS 24 02 32
Seven Falls
eP' 23 48 (21)

APRIL 5
Resolute
iP 23 59 25 c
e 23 59 45
e 24 03.6

APRIL 6
Resolute
eP 03 13 39

APRIL 6
Resolute
eP 03 49.4

APRIL 6
Resolute
eP 04 31 31

APRIL 6
U.S.C.G.S.
50 1/2N, 177W
Andreanof Islands,
Aleutian Islands
H = 05 24 11
Ottawa
eP 05 34 38

DOMINION OBSERVATORIES

Resolute
eP 05 31 48
P_cP 05 33 53
eS 05 38.1
eL 05 46.2
Seven Falls
eP 05 34 (46)

APRIL 6
Resolute
eP 07 35 24
e 07 (40.0)

APRIL 6
Resolute
eP 13 31 11.5

APRIL 6
U.S.C.G.S.
2 1/2N, 72W
Colombia
H = 13 52 04
Resolute
eP 14 03 47
iP 14 03 58 c
eS 14 13.1

APRIL 6
Resolute
eP 14 17 47
e 14 18 27

APRIL 6
U.S.C.G.S.
10S, 120 1/2 E
Sumba Island
H = 14 12 36
Mag 6 1/4
Halifax
iP' 14 32 19 c
iPP 14 35 37 c
ePPS 14 47.9
eSS 14 54.9

Ottawa
eP' 14 32 09
Resolute
eP 14 27 20
P' 14 31 15
PP 14 32 06
SKS 14 38 02
PS 14 41 35
SS 14 47 37
PSPS 14 48 10

APRIL 6
Resolute
eP 22 41.2

APRIL 6
U.S.C.G.S.
13N, 146 1/2W
Mariana Islands
region
H = 23 58 52
Horseshoe Bay
eP 24 00 17
Resolute
eP 24 11 28 c
eS 24 21.9

APRIL 7
U.S.C.G.S.
Northern Mariana
Islands region
H = 05 43 54
Resolute
iP 05 55 51.5 d
iP 05 55 52 c
i 05 56 25

APRIL 8
Resolute
eP 00 36 32

APRIL 8
Resolute
eP 00 48 25
e 00 50 22
e 01 13.5

APRIL 8
U.S.C.G.S.
32 1/2S, 179 1/2E
Kermadec Islands
region
H = 01 23 26
h = 400 km
Mag 6 - 6 1/4
Ottawa
iP' 01 41 37 d
i 01 44 20 d
SKP 01 44 33 d
PKKP 01 51 36 d
Resolute
iP' 01 41 32 c
PP 01 43 09
pPP 01 44 30
(SKKS) 01 49 17
PKKP 01 51 45
SP 01 52.2
SKSP 01 52 5
SPP 01 54 20
sSS 02 01 20
G 02 13.0
Seven Falls
iP' 01 41 (45) c
Shawinigan Falls
eP' 01 41 42 d
PKKP 01 51 28

APRIL 8
Resolute
iP 03 26 13
e 03 29 05

APRIL 8
Resolute
eP 06 01 06

APRIL 8
Resolute
eP 08 00 00

APRIL 8
U.S.C.G.S.
17S, 174 1/2W
Tonga Islands region
H = 08 01 36
h = 100 km
Banff
eP 08 13 56 d
Horseshoe Bay
eP 08 13 36
Ottawa
PKKP 08 31 26
Resolute
PP 08 15 29
Victoria
eP 08 13 47 c

APRIL 8
Resolute
eP 11 44 21

APRIL 8
U.S.C.G.S.
50 1/2S, 73W
Southern Chile-
Argentina border
H = 11 44 25
Halifax
eP 11 57 49 c
ePP 12 01 42
eSKS 12 08 24
ePS 12 10 25
Ottawa
eP 11 57 53
Resolute
eP 12 03 28.5 c
PP 12 05 22
(PS) 12 15.2
SS 12 22 40
SSS 12 27.3
eL 12 41.5

Shawinigan Falls
eP 11 57 54

APRIL 8
Canadian Arctic
H = 19 18 21.7
h = 22 km
Mag 1.6
Resolute
eP_n 19 18 52.5
eP_1 19 18 56.5
eS_n 19 19 17
eS_1 19 19 22.4
D = 215 km

APRIL 8
Resolute
eP 19 50 30

APRIL 9
U.S.C.G.S.
14 1/2S, 167 1/2E
New Hebrides
Islands
H = 04 43 58
h = 100 km
Resolute
ePP 05 02 15.5
SKS 05 08 36
G 05 27 40

APRIL 9
U.S.C.G.S.
36S, 77E
Indian Ocean,
Kerguelen Islands
region
H = 06 18 34
Halifax
iP_1' 06 38 14 c
eSS 07 01 10
eSSS 07 06 39
L 07 21.3

Ottawa
eP_2' 06 38 49
Resolute
eP' 06 38 01
iP' 06 38 10 d
PP 06 41 07
e 06 41 47
SKKS 06 48 04
SKSP 06 51 27
(PPS) 06 53 24
SS 07 00 13
PSPS 07 00 36
SSS 07 05 08
Seven Falls
eP_2' 06 38 (35)
Shawinigan Falls
eP_2' 06 38 43
Victoria
eP 06 39 18

APRIL 9
Seven Falls
eP 07 52 (09)

APRIL 9
U.S.C.G.S.
44 1/2N, 149E
Kurile Islands
H = 12 24 20
h = 60 km
Resolute
iP 12 33 39.5 c
iP 12 33 40 d

APRIL 9
U.S.C.G.S.
50 1/2N, 180
Andreanof Islands,
Aleutian Islands
H = 12 45 32
Resolute
eP 12 53 14
P_cP 12 55 17.5

DOMINION OBSERVATORIES

APRIL 9
Resolute
eP 13 07 02
e 13 21.5

APRIL 9
U.S.C.G.S.
25N, 95E
India-Burma border
H = 17 08 30
Resolute
eP 17 20 41

APRIL 9
U.S.C.G.S.
7N, 82W
South of Panama
H = 17 36 10
Mag 6 1/4 - 6 1/2
Halifax
eP 17 44 00
iS 17 50 08
eSS 17 52.7
Horseshoe Bay
eP 17 45 39
Ottawa
eP 17 43 35
S 17 49 32
Resolute
eP 17 47 08.5
iS 17 56 07
S_cS 17 57 05
iL 18 03.7
Seven Falls
eP 17 43 (54)
S 17 50 (15)
SS 17 53 (00)
Shawinigan Falls
eP 17 43 53
Victoria
eP 17 45 39
eS 17 53 15

APRIL 9
Resolute
iP 19 36 51

APRIL 10
Resolute
iP 00 02 45 c
e 00 04 26

APRIL 10
Resolute
eP 01 00.9
e 01 01 30

APRIL 10
U.S.C.G.S.
25S, 178 1/2E
South of Fiji Islands
H = 05 47 34
h = 600 km
Halifax
esP 06 05 36
iP' 06 05 37 d
pP' 06 08 00
SPP 06 18 42
(P'P') 06 26 38
Horseshoe Bay
eP 05 59 39
eS 06 09 52
Lillooet
eP 05 (58) (07)
pP 06 (00) (23)
Ottawa
iP' 06 05 19
Resolute
eP 06 01 22
iP' 06 05 09 (c)
PP 06 06 13
e 06 07 20
i 06 07 49 d
iSKS 06 11 00
e 06 12 10
eS 06 13 00
e 06 14 31
SP 06 14 54
SPP 06 15 55
PS 06 16 04
SS 06 21 16
sSS 06 24 53
SSS 06 25 42
Seven Falls
eP' 06 05 (25)
i 06 08 (04)
PKKP 06 15 (25)
Shawinigan Falls
eP' 06 05 25
PP 06 07 00
i 06 08 04
PKKP 06 15 31
sSP 06 19 21
Victoria
iP 05 59 39 (c)
pP 06 01 53
eSKKS 06 09 14
iS 06 09 49
e 06 10 43

APRIL 10
Ottawa
eP 07 58 11
Resolute
eP 07 58 02 c

APRIL 10
Resolute
eP 13 55 50

APRIL 11
Resolute
eP 00 05 42 (c)
e 00 33.5

APRIL 11
Resolute
eP 08 33 04.5

APRIL 11
U.S.C.G.S.
9 1/2N, 83W
Costa Rica-Panama
border
H = 09 25 08

Ottawa
eP 09 32 16
Resolute
eP 09 35 54 (d)
eS 09 44 37
SS 09 49 14
eL 09 51.7
Seven Falls
eP 09 32 (38)
Shawinigan Falls
eP 09 32 30

APRIL 11
U.S.C.G.S.
1S, 128E
Spice Islands
H = 11 28 50
Ottawa
eP' 11 48 12
Resolute
eP 11 42 49
PP 11 47 03
SKS 11 53.5
eS 11 54 31
SS 12 01 20
G 12 11 12
Shawinigan Falls
eP' 11 48 11

APRIL 11
Resolute
eP 14 29 16
e 14 35 06
Victoria
eP 14 28 39

APRIL 11
U.S.C.G.S.
7N, 71 1/2W
Colombia-Venezuela
border
H = 14 46 16
Banff
eP 14 56 05
Horseshoe Bay
eP 14 56 28
Ottawa
eP 14 53 43
Resolute
eP 14 57 25 c
eS 15 06.5
eL 15 17 44
Shawinigan Falls
eP 14 54 02
Victoria
eP 14 56 24

APRIL 11
Resolute
eP 16 44 40

APRIL 11
Resolute
eP 17 44 37

APRIL 11
U.S.C.G.S.
15S, 173 1/2W
Samoa Islands
region
H = 17 55 53
Resolute
eP 18 09 48
SKS 18 20.5
eS 18 21.5
PS 18 23.0
SS 18 28.4
PSPS 18 29.1
eL 18 38.3

APRIL 11
Resolute
eP 19 15 (27)

APRIL 11
Resolute
eP 23 34 39
e 23 35 28

APRIL 12
West of Vancouver
Island
H = 03 07 35
Mag 3.5
Alberni
eP 03 08 25.2
D = 358 km
Horseshoe Bay
eP 03 08 39.9
D = 480 km

APRIL 12
Samoa Islands region
H = 06 04 18
Resolute
eP 06 18 10
e 06 18 28
e 06 29.1

APRIL 12
U.S.C.G.S.
Chile-Bolivia border
H = 08 10 44
Ottawa
eP 08 21 45
Resolute
eP 08 24 24
Seven Falls
eP 08 21 (53)
Shawinigan Falls
eP 08 21 52

APRIL 12
U.S.C.G.S.
17 1/2N, 95W
Mexico
H = 09 54 51
h = 100 km
Mag 6 1/4
Banff
eP 10 02 01 d
epP 10 02 08
e 10 02 36

DOMINION OBSERVATORIES

Halifax
iP 10 02 05 c
i 10 02 29 d
ePP 10 03 29
e 10 03 43
i 10 04 45
e 10 04 55
eS 10 07 51
SS 10 10.1
Horseshoe Bay
eP 10 02 14
Ottawa
iP 10 01 15 c
pP 10 01 40
PP 10 02 16
PPP 10 02 35
S 10 06 24
e 10 09 23
e 10 10 24
e 10 11 14
eS_cS 10 11 40
L 10 16 08
Resolute
iP 10 04 33.5 c
sP 10 05 11
PPP 10 08 02
iS 10 12 25
sS 10 13 15
S_cS 10 14 12
Seven Falls
iP 10 01 (44) c
PP 10 03 (01)
S 10 07 (18)
Shawinigan Falls
iP 10 01 35 c
pP 10 02 00
S 10 06 57
Victoria
eP 10 02 12

APRIL 12
U.S.C.G.S.
24 1/2N, 122E
Near east coast of Formosa
H = 10 59 21

Resolute
eP 11 11 23 c
eP 11 11 24 d

APRIL 12
Resolute
eP 12 38 13

APRIL 12
U.S.C.G.S.
4 1/2S, 134E
Near coast of New Guinea
H = 15 22 33
h = 100 km
Ottawa
eP' 15 41 49
Resolute
eP 15 36 32
PP 15 40 51
SKS 15 47 13
PS 15 50 09
Shawinigan Falls
eP' 15 41 51

APRIL 12
Resolute
eP 16 00 28

APRIL 12
Resolute
eP 20 43 20

APRIL 12
U.S.C.G.S.
15 1/2S, 173W
Samoa Islands region
H = 20 54 00
Mag 6 - 6 1/4
Alberni
eP 21 05 58
Banff
eP 21 06 29

Halifax
ePP 21 13 58
eSKS 21 19.5
eSKKS 21 20.7
e 21 21.6
ePS 21 23.3
Horseshoe Bay
eP 21 06 02
Resolute
eP 21 07.9
iP 21 08 08 c
PP 21 12 02
SKS 21 18 35
PS 21 21 04
SS 21 26.4
L 21 40.5
Victoria
eP 21 05 59 (d)
e 21 06 11
eS 21 16 08
eL 21 29.4

APRIL 12
Resolute
eP 23 32 49

APRIL 13
Resolute
eP 00 27 32
e 00 29 21

APRIL 13
Banff
eP 05 08 34.0
e 05 09 02.2
eS 05 09 15.1
Local shock

APRIL 13
Resolute
eP 06 27 10

APRIL 13
Resolute
iP 14 36 33

APRIL 13
Resolute
eP 16 08 02 c
e 16 10 25
e 16 11 28

APRIL 13
Resolute
eP 17 00 37
e 17 02 52

APRIL 13
U.S.C.G.S.
23N, 93 1/2E
India-Burma border
H = 18 31 57
Resolute
eP 18 44 24.5 d
iP 18 44 40

APRIL 13
41°55'N, 73°16'W
Near Pine Mountain, Conn.
H = 21 20 18.5
Mag 3.4
Montreal
S_1 21 22 12
L 21 22 35
D = 400 km
Ottawa
S_1 21 22 21
L 21 22 46
D = 435 km
Shawinigan Falls
S_1 21 22 44.5
D = 516 km

APRIL 13
U.S.C.G.S.
50 1/2N, 180
Andreanof Islands, Aleutian Islands
H = 22 32 34
Resolute
eP 22 40 22
e 22 40 32
P_cP 22 42 20
eS 22 46.5
eL 22 51.4
Seven Falls
eP 22 43 (19)
Shawinigan Falls
eP 22 43 18

APRIL 13
Resolute
eP 23 29 34

APRIL 14
Banff
eP 00 26 06

APRIL 14
U.S.C.G.S.
Gulf of California foreshock
H = 02 51 13
Resolute
eP 03 00 15

APRIL 14
U.S.C.G.S.
24N, 109 1/2W
Gulf of California
H = 02 53 04
Mag 5 1/4 - 5 1/2
Ottawa
eP 02 59 53
Resolute
eP 03 02 06
eS 03 09 24
SS 03 13 20
eL 03 16.3

Shawinigan Falls
eP 03 00 19

APRIL 14
Resolute
eP 03 10 45

APRIL 14
Resolute
eP 03 18 25

APRIL 14
Resolute
eP 03 50 27

APRIL 14
Resolute
eP 06 17 32
e 06 20 27

APRIL 14
U.S.C.G.S.
Northern Chile
H = 06 19 46
Resolute
(SKS) 06 43 58
eL 07 05.2
Seven Falls
eP 06 31 (17)
Shawinigan Falls
eP 06 31 18

APRIL 14
U.S.C.G.S.
Gulf of California aftershock
H = 06 45 04
Resolute
eP 06 54 15
P_cP 06 55 31

DOMINION OBSERVATORIES

APRIL 14
U.S.C.G.S.
57 1/2N, 155W
Alaska Peninsula
H = 07 20 28
H = 60 km
Alberni
eP 07 24 57
Banff
eP 07 25 36 c
Halifax
eP 07 29 56
Horseshoe Bay
eP 07 29 04
Ottawa
eP 07 29 03 d
Resolute
iP 07 26 13.5 c
iS 07 31 06
eL 07 33 33
Seven Falls
eP 07 29 (10)
i 07 29 (30)
P_cP 07 30 (32)
Shawinigan Falls
eP 07 29 08
i 07 29 27
P_cP 07 30 30
Victoria
eP 07 25 10 d, N,W
eS 07 29 05

APRIL 14
Resolute
eP 09 52 20

APRIL 14
Resolute
eP 10 11.8
e 10 14.2

APRIL 14
Resolute
iP 15 43 57
i 15 45.5

APRIL 14
Resolute
eP 18 12 06
iP 18 12 22 c

APRIL 14
Resolute
eP 18 45 17
eP 18 45 25
e 18 47 50

APRIL 14
Resolute
eP 19 27 41

APRIL 14
Resolute
eP 19 32 10

APRIL 14
Resolute
iP 21 02 44 c
e 21 04.3
e 21 07.3

APRIL 14
Resolute
eP 21 47 38
e 21 57.1

APRIL 14
47.7N, 121.8W
Southeast of
Seattle
H = 21 55 50
Mag 2.9
Alberni
eP 21 56 37.5
D = 336 km
Horseshoe Bay
iP 21 56 26.2
iS 21 56 53.7
D = 255 km

Victoria
iP 21 56 18.7 c,N,(E)
e 21 56 39.8
iS 21 56 41.1
D = 183 km

APRIL 15
U.S.C.G.S.
41 1/2N, 143E
Near south coast of
Hokkaido, Japan
H = 00 15 21
Halifax
eS 00 39 23
Ottawa
eP 00 28 07
Resolute
iP 00 25 16 c
iS 00 33 16
S_cS 00 35 03
SS 00 37 07
L 00 39.2
Seven Falls
eP 00 28 (09)
Shawinigan Falls
eP 00 28 07

APRIL 15
Resolute
iP 01 28 47 (c)

APRIL 15
U.S.C.G.S.
51N, 177W
Andreanof Islands,
Aleutian Islands
H = 17 02 45
Ottawa
eP 17 13 09
Seven Falls
eP 17 13 (14)
Shawinigan Falls
eP 17 13 12

SEISMOLOGICAL BULLETIN - 1959

APRIL 15
U.S.C.G.S.
54N, 160 1/2E
Near east coast of
Kamchatka
H = 19 11 20
Halifax
eP 19 23 02.5
e 19 23 15.0 d
Horseshoe Bay
eP 19 19 41
Ottawa
iP 19 22 32 c
Resolute
iP 19 19 18 c
eS 19 25 43
eL 19 29 03
Seven Falls
eP 19 22 (32)
Shawinigan Falls
eP 19 22 33
Victoria
eP 19 19 44

APRIL 15
Resolute
iP 20 21 04 c

APRIL 15
U.S.C.G.S.
23S, 180
Fiji Islands region
H = 23 52 40
h = 600 km
Resolute
eP' 24 10 10

APRIL 16
Resolute
eP 04 38 29 c
e 04 39 39

APRIL 16
Resolute
eP 06 53.0
e 06 55.8

APRIL 16
U.S.C.G.S.
23 1/2S, 179E
South of Fiji Islands
H = 07 27 27
h = 550 km
Ottawa
eP' 07 45 15
Resolute
eP' 07 45 02 c
Seven Falls
eP' 07 45 (19)

APRIL 16
Resolute
eP 08 07 13
e 08 08 01

APRIL 16
Resolute
eP 11 07 02.5

APRIL 16
Resolute
eP 11 16 56

APRIL 16
Resolute
eP 15 06 04

APRIL 16
U.S.C.G.S.
12 1/2S, 143E
Mariana Islands region
H = 15 13 56
h = 100 km
Mag 6 1/2
Banff
eP 16 26 37
Horseshoe Bay
eP 16 26 15 c

Resolute
eP 16 26 29.5
P_cP 16 26 32
eS 16 36.9
pS 16 37.3
SSS 16 46.3
G 16 49.3
Victoria
iP 16 26 16 d

APRIL 16
47°07'N, 70°20'W
About 10 miles south-
east of Bonsecours,
Que.
H = 16 36 24.8
Mag 3.5
Montreal
P_1 16 37 15
i 16 37 47
S_1 16 37 52.5
D = 308 km
Ottawa
S_1 16 38 32
D = 456 km
Seven Falls
P_1 16 36 30.4
S_1 16 36 34.9
D = 36.9 km
Shawinigan Falls
P_1 16 36 56
S_1 16 37 21
D = 197 km

APRIL 16
Resolute
eP 19 27 17

APRIL 16
Resolute
eP 20 44.8
e 20 46.8

DOMINION OBSERVATORIES

APRIL 17
Resolute
eP 00 57 54

APRIL 17
U.S.C.G.S.
21S, 178W
Fiji Islands
H = 10 31 35
h = 500 km
Resolute
eP' 10 49 07

APRIL 17
Resolute
eP 12 15 23
iP 12 15 33

APRIL 17
Resolute
eP 12 44 (26)

APRIL 17
Resolute
eP 14 30 44.5

APRIL 17
Resolute
eP 16 15 35
e 16 19 21

APRIL 18
Resolute
eP 03 52 29

APRIL 18
U.S.C.G.S.
4 1/2S, 153 1/2E
New Ireland region
H = 06 18 00
h = 100 km

Resolute
eP 06 31 39
e 06 40.7
eS 06 43.4
e 06 44 59
SS 06 49.8
eL 07 03.0
Seven Falls
eP' 06 36 (50)

APRIL 18
Resolute
iP 09 01 54.5 c

APRIL 18
Resolute
eP 11 50 46

APRIL 18
Resolute
eP 16 43 40

APRIL 18
49°11'N, 123°53'W
Gabriola Islands
H = 14 16 20
Mag 2.2
Alberni
iP 14 16 32.5
iS 14 16 42.6
D = 72 km
Horseshoe Bay
iP 14 16 28.9
S 14 16 36
D = 49 km
Victoria
iP 14 16 34.3
S 14 16 45.6
D = 83 km

APRIL 19
Victoria
eP 04 40 54

APRIL 19
U.S.C.G.S.
Yukon, Canada
H = 06 43 29
Mag 5.0 (Ott.)
Resolute
eP_n 06 47 32
iS_n 06 50 37
i 06 52 20
L_g 06 52 40
D = 1930 km
Banff
eP 06 48 18

APRIL 19
Canadian Arctic
H = 07 29 28
h = 0 (?)
Mag 2.9
Resolute
P_n 07 30 26
P_1 07 30 35
i 07 30 41
S_n 07 31 10
S_1 07 31 25
D = 425 km

APRIL 19
U.S.C.G.S.
45S, 82W
Pacific Ocean
H = 07 26 15
Mag 6
Ottawa
eP 07 39 25
Resolute
eP' 07 45 06
PS 07 56 16
SS 08 02 24
L 08 14.4

APRIL 19
U.S.C.G.S.
40N, 43E
Eastern Turkey
H = 08 59 17
Resolute
eP 09 09 42

APRIL 19
U.S.C.G.S.
24 1/2N, 142E
Volcano Islands
H = 14 51 03
Resolute
eP 15 02 44 d

APRIL 19
U.S.C.G.S.
58N, 152 1/2W
Near Kodiak Island,
Alaska
H = 15 03 26
Mag 6 1/4
Alberni
eP 15 07 41
Banff
eP 15 08 23 d
Halifax
eL 15 32.3
Horseshoe Bay
eP 15 07 50 N,W
eS 15 11 42
eL 15 12.5
Ottawa
eP 15 11 52
P_cP 15 13 27
Resolute
eP 15 09 05.5
iP 15 09 06.5 d
iS 15 13 41
iL 15 14 06
Shawinigan Falls
eP 15 11 56
Victoria
eP 15 07 55 c
i 15 08 08
eS 15 11 40
eL 15 13.0

APRIL 19
U.S.C.G.S.
37 1/2N, 21E
Near west coast of
Greece
H = 17 38 50

Resolute
eP 17 49 05 c
e 18 05.5

APRIL 19
U.S.C.G.S.
16S, 172W
Samoa Islands region
H = 19 43 04
Banff
eP 19 55 41
Resolute
eP 19 57.0
eP 19 57 09
e 20 19.0
e 20 30.2

APRIL 20
48°48'N, 123°10'W
Gulf Islands
H = 00 27 22
Mag 2.1
Alberni
eP 00 27 44.4
eS 00 28 00.7
D = 137 km
Horseshoe Bay
iP 00 27 34.3
D = 74 km
Victoria
eP 00 27 27.8
eS 00 27 31.9
D = 33 km

APRIL 20
48°46'N, 123°21'W
Gulf Islands
H = 01 55 33
Mag 2
Alberni
eP 01 55 53.5
Horseshoe Bay
iP 01 55 44.4
iS 01 55 53.7
D = 77 km

Victoria
eP 01 55 37.9
eS 01 55 42.4
D = 36 km

APRIL 20
U.S.C.G.S.
6S, 149 1/2E
New Britain
H = 03 27 52
h = 100 km
Mag 6
Halifax
e(SS) 04 07 04
eL 04 32.3
Ottawa
iP' 03 46 49 D
Resolute
eP 03 41 45 c
PP 03 45 58
pPP 03 46 17
sS 03 54.1
PS 03 55.1
pPS 03 55 18
sSS 04 01.3
Seven Falls
eP' 03 46 (52)
Shawinigan Falls
eP' 03 46 50

APRIL 20
Resolute
eP 03 57 45

APRIL 20
U.S.C.G.S.
8 1/2N, 83W
Costa Rica
H = 04 21 10
Ottawa
eP 04 28 27
Resolute
eP 04 32 02 c
eP 04 32 02.5 d
iS 04 40 57
SS 04 45.3

DOMINION OBSERVATORIES

Seven Falls
eP 04 28 (48)
Shawinigan Falls
eP 04 28 40

APRIL 20
U.S.C.G.S.
54N, 157 1/2E
Near east coast of
Kamchatka
H = 19 26 01
Resolute
eP 19 33 53 d
iP 19 33 53.5 c
P_cP 19 35 47

APRIL 20
Resolute
eP 23 08 39 d
iP 23 08 39.5 c

APRIL 21
Resolute
eP 00 39 10

APRIL 21
Resolute
eP 01 45 11

APRIL 21
Resolute
eP 07 18 03

APRIL 21
Resolute
eP 07 31 44

APRIL 21
Canadian Arctic
H = 08 43 47.5
Mag 2.0

Resolute
P_1 08 43 56 d
S_1 08 44 02.5
D = 53.3 km

APRIL 21
U.S.C.G.S.
45N, 152 1/2E
Kurile Islands
H = 10 02 30
Resolute
iP 10 11 48 c
iP 10 11 51
iP 10 12 03
SS 10 23.3

APRIL 21
Resolute
eP 10 33 03

APRIL 21
Resolute
iP 11 08 27 c

APRIL 21
Resolute
eP 11 25 24
e 11 27 52

APRIL 21
U.S.C.G.S.
56N, 162 1/2W
Bristol Bay
H = 12 42 50
Horseshoe Bay
eP 12 47 58
i 12 48 11
Ottawa
iP 12 52 02 d
iP_cP 12 52 43
Resolute
eP 12 49 11
P_cP 12 52 01
eL 12 55 12

Seven Falls
eP 12 52 (09)
P_cP 12 52 (50)
Shawinigan Falls
eP 12 52 06
P_cP 12 52 47
Victoria
eP 12 48 14

APRIL 21
Resolute
eP 12 55 26 c

APRIL 21
Resolute
eP 13 49 58
e 14 11.2
e 14 13.2

APRIL 21
Resolute
eP 15 44.8

APRIL 21
Resolute
eP 16 49.9
e 16 51.2

APRIL 21
Resolute
eP 20 07 48
e 20 07 53
e 20 12.4
e 20 15.2

APRIL 21
Resolute
eP 20 54 58
e 20 57 10

APRIL 22
Resolute
eP 02 46 38
e 02 48 16

APRIL 22
U.S.C.G.S.
Hindu Kush region
H = 03 36 49
h = 200 km
Resolute
eP 03 47 45
e 03 47 50

APRIL 22
48°45'N, 123°15'W
Gulf Islands
H = 07 14 44
Mag 2.3
Alberni
iP 07 15 05.3
iS 07 15 23.1
D = 132 km
Horseshoe Bay
iP 07 14 55.3
iS 07 15 05.0
D = 70 km
Victoria
iP 07 14 49.2
iS 07 14 53.2
D = 32 km

APRIL 22
Resolute
eP 07 45.1
e 07 48.1

APRIL 22
U.S.C.G.S.
54N, 167W
Fox Islands,
Aleutian Islands
H = 10 55 05
Mag 6

Alberni
eP 11 00 43
Banff
eP 11 01 24
Horseshoe Bay
iP 11 00 50
Lillooet
iP 11 00 (46) d
Ottawa
eP 11 04 43 d
S 11 12 23
Resolute
iP 11 01 55 c
PP 11 03 08
iP_cP 11 04 29
iS 11 07 17
eL 11 09 26
Seven Falls
eP 11 04 (51)
Shawinigan Falls
eP 11 04 48 d
Victoria
eP 11 00 54

APRIL 22
Resolute
iP 11 08 07 (c)
i 11 12 08

APRIL 22
Resolute
eP 11 35 24.5
(P_cP) 11 37 59

APRIL 22
U.S.C.G.S.
7 1/2N, 72W
Venezuela-Colombia
border
H = 17 24 05
Ottawa
eP 17 31 26
Resolute
eP 17 35 09 c
Shawinigan Falls
eP 17 31 36

APRIL 22
Resolute
eP 19 09 18

APRIL 22
U.S.C.G.S.
11 1/2N, 86 1/2W
Near coast of
Nicaragua
H = 19 01 41
Ottawa
eP 19 08 35 c
Resolute
eP 19 12 09 c
PPP 19 16 09
eS 19 20 50
Seven Falls
eP 19 08 (59)
Shawinigan Falls
eP 19 08 51
Victoria
eP 19 10 21

APRIL 22
U.S.C.G.S.
36 1/2S, 97 1/2W
Pacific Ocean
H = 20 26 46
Mag 5 3/4 - 6
Ottawa
eP 20 39 17
Resolute
eP 20 41.4
eP' 20 45 (14)
eS 20 53 36
SS 21 01 37
L 21 12.0
Seven Falls
eP 20 39 (31)
Shawinigan Falls
iP 20 39 26 c

DOMINION OBSERVATORIES

APRIL 23
Resolute
iP 06 09 30 c

APRIL 23
Resolute
eP 12 22 (30)

APRIL 23
Resolute
eP 19 01 38

APRIL 23
Resolute
eP 19 38 47

APRIL 23
U.S.C.G.S.
37 1/2N, 80 1/2W
Virginia-West Virginia border
H = 20 58 41
Ottawa
eP 21 00 47
e 21 03 05
Resolute
e 21 14.5
e 21 15 28
e 21 18 10
e 21 18 43
Seven Falls
eP 21 01 (31)
Shawinigan Falls
eP 21 01 17

APRIL 23
Resolute
eP 22 36 08

APRIL 23
Resolute
iP 22 47 39

APRIL 24
Resolute
iP 07 29 43 c

APRIL 24
U.S.C.G.S.
11 1/2N, 86 1/2W
Near coast of Nicaragua
H = 09 31 33
Mag 6 1/4 - 6 1/2
Horseshoe Bay
iP 09 40 18 d
Ottawa
eP 09 38 29
Resolute
iP 09 42 02 c
PP 09 44 24
PPP 09 46 02
eS 09 50 30
SS 09 54.9
Seven Falls
eP 09 38 (52) c
Shawinigan Falls
iP 09 38 43 c
Victoria
eP 09 40 15 d

APRIL 24
Resolute
eP 15 32 45
e 15 33 34

APRIL 24
U.S.C.G.S.
31S, 178W
Kermadec Islands
H = 17 57 58
Mag 6 3/4 - 7
Alberni
eP 18 11 20
e 18 22 32
Halifax
i 18.5 c
i 18.6

Horseshoe Bay
eP 18 11 25
eSKS 18 21 20
eS 18 22 36
Ottawa
eP' 18 16 54
PKS 18 20 26
Resolute
eP 18 13.2
iP' 18 16 49 c
PP 18 18 02
e 18 19 29
SKS 18 23 38
SKKS 18 25 00
eS 18 26 02
PKKP 18 27 11
PS 18 27 36
PPS 18 29.3
SS 18 33 58
P'P' 18 38.0
SSS 18 38 46
Seven Falls
eP' 18 17 (00)
Shawinigan Falls
eP' 18 16 58
PP 18 18 41
PKS 18 20 30
Victoria
eP 18 11 21
eSKS 18 21 51
eS 18 22 32
eL 18 40.9

APRIL 24
Resolute
eP 22 59.2

APRIL 25
Resolute
eP 00 16 21

APRIL 25
U.S.C.G.S.
37N, 28 1/2E
Turkey
H = 00 26 40

Horseshoe Bay
eP 00 39 42
Ottawa
eP 00 38 13 d
Resolute
iP 00 37 05.5 d
eS 00 45 26
SS 00 49 36
Shawinigan Falls
eP 00 37 59 d
Victoria
eP 00 39 45

APRIL 25
U.S.C.G.S.
Dodecanese Islands
H = 01 05 37
Ottawa
eP 01 17 15
Resolute
eP 01 16 06 d
Shawinigan Falls
eP 01 17 00

APRIL 25
U.S.C.G.S.
19 1/2N, 66W
Puerto Rico region
H = 06 06 04
Resolute
eP 06 15 53.5

APRIL 25
Resolute
eP 12 13 50 d

APRIL 25
Resolute
eP 20 46 10

APRIL 25
Resolute
iP 22 59 33
iP 22 59 44
e 23 18.5
e 23 24.1

APRIL 26
U.S.C.G.S.
16S, 171 1/2W
Samoa Islands region
H = 05 17 47
Resolute
eP 05 31 42
eL 06 04.5

APRIL 26
Resolute
eP 05 34 11

APRIL 26
U.S.C.G.S.
19 1/2S, 169 1/2E
New Hebrides Islands
H = 05 47 28
Resolute
(PP) 06 06 03

APRIL 26
U.S.C.G.S.
Off coast of Chile
H = 06 21 56
Seven Falls
eP 06 33 (49)

APRIL 26
Canadian Arctic
H = 07 26 15
h = 15 km
Mag 2.9

Resolute
eP_n 07 27 17
eP_1 07 27 29
eS_n 07 28 03.5
eS_1 07 28 24.5
D = 460 km

APRIL 26
Resolute
eP 12 12 17

APRIL 26
U.S.C.G.S.
China-Burma border region
H = 12 34 49
Resolute
eP 12 47 02.5
e 13 02.1
e 13 08.0

APRIL 26
U.S.C.G.S.
46 1/2N, 13E
Italy-Austria border
H = 14 45 16
Resolute
eP 14 54 12
eL 15 15.6

APRIL 26
U.S.C.G.S.
25N, 122 1/2E
Near northeast coast of Formosa
H = 20 40 38
h = 150 km
Mag 7 1/2 - 7 3/4
Alberni
iP 20 53 02 d,E,S,
eS 21 03 18
Banff
iP 20 54 20 d

DOMINION OBSERVATORIES

Horseshoe Bay
eP 20 53 05
iS 21 03 21
i 21 04 05
i 21 04 24
eSS 21 07 05
Ottawa
P 20 54 47
e 20 58 21
PP 20 59 20
e 20 59 53
e 21 03 19
SKS 21 05 16
PS 21 08 24
PPS 21 09 16
SS 21 14 30
Resolute
iP 20 52 21.5 c
iPP 20 54 32
isPP 20 56 30
iS 21 02 05
eSS 21 07 19
Saskatoon
iP 20 53 38
ePP 20 57 03
eS 21 03 33
i 21 03 59
i 21 04 29
Seven Falls
eP 20 54 (42)
e 20 58 (46)
PP 20 59 (25)
SKS 21 05 (02)
Shawinigan Falls
eP 20 54 45
SKS 21 05 17
Victoria
iP 20 53 07 (c,N,E)
i(P_cP) 20 53 16
PP 20 56 24
iS 21 03 24
i 21 03 41
e 21 03 58
eSS 21 09.7
G 21 22

APRIL 27
Resolute
iP 00 16 55.5

APRIL 27
Resolute
iP 05 23 33 c

APRIL 27
Resolute
eP 07 22.6
e 07 22 51

APRIL 27
U.S.C.G.S.
7S, 129E
Banda Sea
H = 09 48 09
Ottawa
eP' 10 07 23
PKS 10 10 49
Resolute
eP 10 02 32
(eP') 10 06 37
(PP) 10 06 52
e 10 12 55
e 10 13.7
PS 10 16.1
Seven Falls
eP' 10 07 (32)
PKS 10 10 (51)
Shawinigan Falls
eP' 10 07 28
PKS 10 10 50

APRIL 27
Resolute
eP 10 17 49

APRIL 27
U.S.C.G.S.
1/2S, 124E
Celebes region
H = 12 47 27
h = 200 km
Ottawa
eP' 13 06 21
Resolute
eP 13 01 01
e 13 02 49

APRIL 27
U.S.C.G.S.
33 1/2N, 93E
Tsinghai Province, China
H = 13 09 20
Resolute
eP 13 20 48
eS 13 30 16

APRIL 27
Resolute
eP 18 14 (04)

APRIL 28
U.S.C.G.S.
4S, 135E
Western New Guinea
H = 01 44 21
Resolute
eP 01 58 26
SS 02 17.3
eL 02 27.5

APRIL 28
U.S.C.G.S.
15N, 93W
Mexico-Guatemala border
H = 11 09 30
Mag 6 1/2 - 6 3/4
Alberni
eP 11 17 36
eS 11 24 09
Banff
iP 11 17 14 d
Halifax
iP 11.3 c

SEISMOLOGICAL BULLETIN - 1959

Horseshoe Bay
iP 11 17 30 c,N,W
iS 11 23 58
eSS 11 27 09
Ottawa
iP 11 16 14 c
S 11 21 31
Resolute
iP 11 19 37 c
PPP 11 23 19
iS 11 27 50
Saskatoon
eP 11 17 09
i 11 28 25
Seven Falls
eP 11 16 (41)
Shawinigan Falls
eP 11 16 32
Victoria
eP 11 17 27 d,S,E
iS 11 23 50
i 11 24 07
eSS 11 27.5
iL 11 32.6

APRIL 28
U.S.C.G.S.
5S, 152 1/2E
New Britain
H = 13 00 57
h = 100 km
Ottawa
iP' 13 19 45 d
Resolute
iP 13 14 38 c
Seven Falls
eP' 13 19 (47)

APRIL 28
U.S.C.G.S.
Rat Islands,
Aleutian Islands
H = 14 18 10
Ottawa
eP 14 28 50
Resolute
iP 14 25 55 c

Seven Falls
eP 14 29 (04)

APRIL 28
Resolute
eP 14 31 36

APRIL 28
U.S.C.G.S.
52N, 173W
Andreanof Islands, Aleutian Islands
H = 17 11 15
Ottawa
eP 17 21 24
Resolute
P_cP 17 20 53
eS 17 24 36

APRIL 28
Resolute
eP 17 30 25

APRIL 28
U.S.C.G.S.
36N, 141E
Near east coast of Honshu, Japan
H = 22 01 04
Resolute
eP 22 11 35
eL 22 30.0

APRIL 29
U.S.C.G.S.
28N, 55E
Southern Iran
H = 00 23 50
Resolute
eP 00 35 36

APRIL 29
Resolute
eP 05 46 21

APRIL 29
Resolute
eP 14 42 55 c

APRIL 29
U.S.C.G.S.
16 1/2N, 145E
Mariana Islands
H = 15 35 45
Resolute
eP 15 48 11

APRIL 29
Resolute
eP 18 14 08

APRIL 29
Resolute
iP 19 54 00 d

APRIL 29
Resolute
eP 23 44 56

APRIL 30
Resolute
eP 00 13 15

APRIL 30
Resolute
iP 07 14 35 c

APRIL 30
Resolute
eP 07 33 23

DOMINION OBSERVATORIES

APRIL 30
Resolute
eP 09 03 18
e 09 03 30

APRIL 30
Resolute
eP 11 18 54

APRIL 30
Resolute
eP 11 38 27 (d)
e 11 42 20

APRIL 30
U.S.C.G.S.
55 1/2S, 26W
Sandwich Island
H = 13 25 35
Horseshoe Bay
eP 13 44 48
e 13 48 00
Ottawa
eP' 13 44 35
Resolute
eP' 13 44 48.5 (d)
iP' 13 45 01 d
PP 13 47 49
(iPP) 13 48 23
SKSP 13 58 26
SS 14 06.0
Seven Falls
eP' 13 44 (34)
Victoria
eP 13 44 48 c

APRIL 30
U.S.C.G.S.
Arctic Ocean, west of Spitsbergen
H = 22 40 20
Ottawa
eP 22 48 36

Resolute
eP 22 44 55
i 22 48 24
i 22 48 28
i 22 48 35
i 22 48 40
i 22 49 12
e 22 51 17
Seven Falls
eP 22 48 07

MAY 1
U.S.C.G.S.
3 1/2S, 135 1/2E
Western New Guinea
H = 07 19 16
Resolute
eP 07 33 20
eS 07 45.2
e 07 47.4
SS 07 52.2
eL 08 02.4

MAY 1
Seven Falls
P 08 12 (25)

MAY 1
U.S.C.G.S.
36 1/2N, 52E
Near north coast of Iran
H = 08 23 57
Resolute
eP 08 34 52
eS 08 43 39

MAY 1
Resolute
eP 08 58 09.5

MAY 1
Resolute
eP 09 29 36

MAY 1
Resolute
iP 13 13 45
i 13 16 48

MAY 1
U.S.C.G.S.
5S, 154E
Solomon Island region
H = 14 56 57
h = 60 km
Resolute
eP 15 10 40

MAY 1
Resolute
eP 16 55 50 c

MAY 2
U.S.C.G.S.
32N, 136 1/2E
South of Honshu, Japan
H = 05 25 33
Resolute
eP 05 36 33

MAY 2
Resolute
eP 06 07 03.5 c
e 06 07 30

MAY 2
Resolute
eP 06 31 26

MAY 2
Resolute
eP 11 45 52.5

MAY 2
48°57'N, 122°11'W
Southeast of Sumas
H = 20 09 17
Mag 2.2
Alberni
eP 20 09 46.4
D = 183 km
Horseshoe Bay
eP 20 09 32.4
eS 20 09 43.7
D = 93 km
Victoria
eP 20 09 34.3
D = 105 km

MAY 2
48°43'N, 123°23'W
Gulf Islands
H = 20 35 48
Mag 2.4
Alberni
iP 20 36 09.6
iS 20 36 26.0
D = 123 km
Horseshoe Bay
iP 20 36 01.9
iS 20 36 12.0
D = 75 km
Victoria
iP 20 35 53.2
S 20 35 57.2
D = 23 km

MAY 3
U.S.C.G.S.
10 1/2S, 161 1/2E
Solomon Islands
H = 03 01 38
Resolute
PP 03 19.8

MAY 3
U.S.C.G.S.
12 1/2N, 87 1/2W
Near coast of Nicaragua
H = 04 41 24
h = 100 km
Halifax
iP 04 48 40 d
ePP 04 50.3
esS 04 55 01
Horseshoe Bay
eP 04 49 52 c
Ottawa
iP 04 48 07 c
Resolute
iP 04 51 40 c
PPP 04 55.5
eS 05 00 09
SS 05 04.4
sSS 05 05.1
Shawinigan Falls
eP 04 48 23
Victoria
eP 04 49 47 (c)

MAY 3
U.S.C.G.S.
37 1/2N, 141E
Near east coast of Honshu, Japan
H = 07 26 22
h = 100 km
Resolute
iP 07 36 37 c
i 07 36 49 c
e 07 37 30

MAY 3
Canadian Arctic
H = 09 30 13.8
h = 0 (?)
Mag 2.8
Resolute
e 09 31 17.5
P_1 09 31 26
S_n 09 32 02
S_1 09 32 21
L_g 09 32 35
D = 450 km

MAY 3
Resolute
iP 11 15 46 c

MAY 3
Resolute
eP 14 20 58

MAY 3
Resolute
eP 19 14.7

MAY 4
U.S.C.G.S.
23 1/2N, 123E
Off east coast of Formosa
H = 03 17 34
Resolute
eP 03 29 40

MAY 4
U.S.C.G.S.
52 1/2N, 159 1/2E
Near east coast of Kamchatka
H = 07 15 42
h = 60 km
Mag 8
Alberni
iP 07 23 59 d,N,W
iS 07 30 34
iL 07 33 45
Banff
eP 07 24 27.2
Halifax
iP 07 27 26 d
isP 07 28 10
isPP 07 30 58
iPPP 07 32 16
iS 07 36 48
isPS 07 38 35
Horseshoe Bay
iP 07 24 06 d,N,W
iS 07 30 43

DOMINION OBSERVATORIES

Ottawa
iP 07 26 57 d
PP 07 29 32
PPP 07 31 26
S 07 36 00
PS 07 36 48
SS 07 40 06
SSS 07 44 00
Resolute
iP 07 23 44 c
iP 07 23 44.5 d
iP 07 23 45 c
Saskatoon
iP 07 25 00
iS 07 32 21
eSS 07 35.8
eL 07 40.0
Seven Falls
eP 07 27 (00) d
Shawinigan Falls
eP 07 26 57
S 07 36 05
Victoria
iP 07 24 10 d, N, W
i 07 29 23
iS 07 30 44
L 07 34.0
P'P' 07 54.9

MAY 4
Resolute
eP 10 33 28

MAY 4
Resolute
eP 11 31 06 d

MAY 4
Resolute
eP 12 58 24

MAY 4
U.S.C.G.S.
29N, 92E
Tibet
H = 17 18 33
Resolute
eP 17 30 26 d

MAY 4
Resolute
eP 20 08 20

MAY 4
Resolute
eP 20 18 08
e 20 18 42
e 20 19 05

MAY 4
Resolute
iP 23 19 09 c

MAY 5
Resolute
eP 00 41 40

MAY 5
Resolute
eP 03 04 55

MAY 5
U.S.C.G.S.
9S, 78 1/2W
Near coast of Peru
H = 05 30 15
Resolute
eP 05 42 48 (c)

MAY 5
Resolute
eP 06 15 35 d
e 06 15 46

MAY 5
Resolute
eP 09 20 51 c
e 09 22 19

MAY 5
Resolute
eP 11 23 24 d

MAY 5
U.S.C.G.S.
34 1/2N, 71 1/2E
Afghanistan
H = 11 40 08
Resolute
iP 11 51 24 c

MAY 5
U.S.C.G.S.
53N, 159E
Kamchatka aftershock
H = 19 04 16
Mag 6
Alberni
eP 19 12 39
Banff
eP 19 13 09.1
Halifax
iP 19 16 06 c
eS 19 25 40
eSSS 19 33.9
eL 19 35.0
Horseshoe Bay
eP 19 12 43
Ottawa
eP 19 15 37
Resolute
iP 19 12 19 d
PP 19 14 05
iS 19 18 48
eL 19 21.9
Seven Falls
eP 19 15 38
S 19 25 03
Victoria
eP 19 12 48
eS 19 19 43

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MAY 5
Resolute
eP 20 32 59

MAY 6
Resolute
eP 03 08 19

MAY 6
Resolute
eP 06 59 11

MAY 6
U.S.C.G.S.
51 1/2N, 176W
Andreanof Islands,
Aleutian Islands
H = 07 44 25
Resolute
eP 07 51 52
e 07 52 10
P_cP 07 54 05
eS 07 57 45
eL 08 02.3

MAY 6
Resolute
eP 10 01 13.5 c

MAY 6
Resolute
eP 13 30 44

MAY 6
Resolute
eP 14 03 58

MAY 6
Resolute
eP 14 23 32 c
e 14 42.4

MAY 6
Resolute
eP 16 44 43

MAY 6
U.S.C.G.S.
18S, 179W
Fiji Islands
H = 17 29 26
h = 600 km
Resolute
eP 17 42 38

MAY 6
Resolute
iP 19 03 29 c
i 19 03 38
i 19 03 46

MAY 6
U.S.C.G.S.
3S, 128E
Ceram Island
H = 18 52 22
Ottawa
PKS 19 15 09
Resolute
eP 19 06 30
SKS 19 17.1
PS 19 20.0
SS 19 25 40
Shawinigan Falls
PKS 19 15 09

MAY 6
Resolute
eP 22 03.5

MAY 7
U.S.C.G.S.
3 1/2S, 148 1/2E
Bismarck Sea
H = 00 03 24
Mag 6 - 6 1/4
Halifax
eL 00 54.2
Resolute
eP 00 17 11
e 00 27 52
eS 00 28 48
SS 00 35 35

MAY 7
Resolute
eP 04 10.0

MAY 7
U.S.C.G.S.
3 1/2S, 149 1/2E
Bismarck Sea
H = 09 03 46
Resolute
eS 09 29 10
e 09 31 13
SS 09 36 03

MAY 7
Resolute
eP 10 31 06
e 10 33 16

MAY 7
Resolute
eP 10 37 20

MAY 7
Resolute
eP 10 48 45
e 10 50 26

DOMINION OBSERVATORIES

MAY 7
U.S.C.G.S.
3 1/2S, 150E
Bismarck Sea
H = 11 17 16
Resolute
eP 11 31.1
eS 11 42.7
PS 11 44.2
SS 11 49 32

MAY 7
Resolute
eP 14 36 54

MAY 7
Resolute
eP 15 44 43

MAY 7
Resolute
eP 16 26 33
e 16 31 10
e 16 39 38
e 16 46.5

MAY 7
U.S.C.G.S.
North Atlantic Ocean
H = 18 10 49
Resolute
eP 18 20 54
eP 18 21 11.5 c
e 18 21 19
e 18 29.6
e 18 33.5
Shawinigan Falls
eP 18 17 49

MAY 7
Resolute
eP 18 26 05

MAY 7
U.S.C.G.S.
8 1/2S, 123 1/2E
Flores Islands
H = 20 22 41
Resolute
eP 20 37 16
P' 20 41 15
PS 20 51.3
SS 20 57.8
eL 21 07.3
Shawinigan Falls
eP' 20 42 12

MAY 7
Resolute
eP 21 54 59

MAY 8
Resolute
eP 01 04 23

MAY 8
U.S.C.G.S.
26 1/2N, 127 1/2E
Ryukyu Islands
H = 05 15 17
Resolute
eP 05 27 00 c
i 05 27 14

MAY 8
U.S.C.G.S.
53 1/2N, 159 1/2E
Near east coast of
Kamchatka
H = 06 46 18
Ottawa
eP 06 57 32
Resolute
eP 06 54 18 d
i 06 54 26
eS 07 00 50
eL 07 03.8

Shawinigan Falls
eP 06 57 37

MAY 8
Resolute
eP 10 04 20 c
e 10 06.7
e 10 19.4
Shawinigan Falls
eP 10 00 58

MAY 8
Resolute
eP 10 16 46
Shawinigan Falls
eP 10 13 25

MAY 8
U.S.C.G.S.
53 1/2N, 160 1/2E
Near east coast of
Kamchatka
H = 11 34 50
h = 60 km
Mag 6
Alberni
eP 11 43 01
Banff
eP 11 43 28.9
Halifax
iP 11 46 29 c
Horseshoe Bay
eP 11 43 06
Ottawa
eP 11 45 59
S 11 55 04
Resolute
iP 11 42 44 c
PP 11 44 25
P_cP 11 44 36
iS 11 49 05
eL 11 52.3
Seven Falls
eP 11 46 01
S 11 55 12

SEISMOLOGICAL BULLETIN - 1959

Shawinigan Falls
iP 11 46 00 c
Victoria
eP 11 43 10

MAY 8
Resolute
eP 14 13 10 c
e 14 16 00

MAY 8
U.S.C.G.S.
45 1/2N, 150 1/2E
Kurile Islands
H = 15 28 58
Resolute
eP 15 38 16
eL 15 50 30

MAY 8
Resolute
eP 17 33 06 (c)

MAY 8
U.S.C.G.S.
51N, 175W
Andreanof Islands,
Aleutian Islands
H = 22 13 44
Ottawa
eP 22 24 06 d
Resolute
eP 22 21 17
e 22 23 23
e 22 33.3
e 22 34.4

MAY 8
Resolute
eP 23 49 08 (c)

MAY 9
Banff
eP 00 10 05.6
Resolute
eP 00 09 09 c
e 00 23.1

MAY 9
47.5°N, 122.7°W
South west of Seattle
H = 00 24 51
Mag 2.4
Horseshoe Bay
iP 00 25 23.7
iS 00 25 50.1
D = 211 km
Victoria
iP 00 25 11.2
eS 00 25 29.2
D = 125 km

MAY 9
Resolute
eP 04 16 47 d
iP 04 16 47.5 c

MAY 9
Resolute
eP 08 29 37

MAY 9
Resolute
eP 08 33 20 c

MAY 9
Resolute
eP 08 40 08
e 08 46.2

MAY 9
U.S.C.G.S.
5 1/2S, 146E
Near north coast of
New Guinea
H = 08 42 07
Resolute
eP 08 56.1

MAY 9
Resolute
iP 10 37 08 c

MAY 9
U.S.C.G.S.
52 1/2N, 168 1/2W
Fox Islands,
Aleutian Islands
H = 12 46 22
Resolute
eP 12 53 25
P_cP 12 55 51

MAY 9
Resolute
eP 14 35 36.5

MAY 9
Resolute
eP 15 44.2

MAY 9
Resolute
eP 16 10.2

MAY 9
Resolute
eP 16 23 52
e 16 46.2

DOMINION OBSERVATORIES

MAY 9
Resolute
eP 16 54 48

MAY 9
Resolute
eP 18 40 32 (c)
e 18 50.8

MAY 9
Resolute
eP 23 00 31

MAY 9
U.S.C.G.S.
45N, 149E
Kurile Islands
H = 23 57 03
Banff
eP 24 07 03.7
Ottawa
eP 24 09 22
Resolute
eP 24 06 24 c
iP 24 06 25 d
eS 24 13 48
SS 24 17.5
eL 24 18.5
Seven Falls
eP 24 09 25
Shawinigan Falls
eP 24 09 23

MAY 10
50.4N, 115.1W
Rocky Mountain Range
Southeast of Banff
H = 01 05 32
Mag 3
Banff
eP 01 05 46.2
eS 01 05 57.2
D = 91 km

MAY 10
Resolute
eP 01 43 13 d

MAY 10
48°46'N, 123°22'W
Gulf Islands
H = 02 04 16
Mag 2.7
Alberni
iP 02 04 36.3
iS 02 04 53.9
D = 128 km
Horseshoe Bay
iP 02 04 27.4
D = 72 km
Victoria
iP 02 04 20.6
iS 02 04 24.1
iS_N 02 04 24.8
D = 29 km

MAY 10
Resolute
eP 05 59 30
e 06 01 32

MAY 10
Resolute
eP 07 34 38 d

MAY 10
Resolute
eP 07 42 05

MAY 10
U.S.C.G.S.
48 1/2N, 148E
Sea of Okhotsk
H = 09 44 02
h = 400 km
Resolute
iP 09 52 19
P_cP 09 53 32
S_cP 09 56 51

MAY 10
U.S.C.G.S.
44 1/2N, 150E
Kurile Islands
H = 10 49 08
Resolute
iP 10 58 27 c
P_cP 10 59 36

MAY 10
Resolute
eP 14 04 27.5

MAY 10
Resolute
eP 14 58 46

MAY 10
Resolute
eP 16 56 25.5
e 16 59 02

MAY 10
Resolute
eP 19 46 41

MAY 11
Resolute
eP 01 51 52 d

MAY 11
Resolute
eP 08 51 12

MAY 11
Resolute
eP 16 02.1
e 16 05.2

SEISMOLOGICAL BULLETIN - 1959

MAY 11
U.S.C.G.S.
53 1/2N, 160E
Kamchatka
H = 16 28 49
Banff
eP 16 37 11
Horseshoe Bay
eP 16 38 15
Ottawa
iP 16 40 05
Resolute
iP 16 36 51 c
i 16 37 12
i 16 37 21
P_cP 16 38 40
eS 16 43 14
eL 16 46.4
Shawinigan Falls
iP 16 40 07 c
Victoria
eP 16 37 18

MAY 11
Ottawa
iP 17 29 04 c
i 17 29 12 c

MAY 11
48°36'N, 123°02'W
Gulf Islands
H = 20 53 46
Mag 1.3
Horseshoe Bay
eP 20 54 00.3
eS 20 54 11.2
D = 90 km
Victoria
iP 20 53 50.6
iS 20 53 53.9
D = 26 km

MAY 12
Canadian Arctic
H = 00 08 22.4
Mag 1.2
Resolute
iP_1 00 08 29
iS_1 00 08 34
D = 41 km

MAY 12
U.S.C.G.S.
32 1/2N, 79E
Tibet - India border
H = 00 35 46
Resolute
eP 00 47 19
eL 01 15.4

MAY 12
Resolute
eP 01 30 45
e 01 32 54

MAY 12
U.S.C.G.S.
7 1/2N, 77W
Panama - Colombia border
H = 03 42 47
Banff
eP 03 52 40.2
Horseshoe Bay
eP 03 52 34
Ottawa
eP 03 50 07 c
Resolute
eP 03 53 46 c
eL 04 10.6
Shawinigan Falls
eP 03 50 19 c
Victoria
eP 03 52 31

MAY 12
U.S.C.G.S.
54 1/2N, 168E
Komandorskie Islands
H = 04 57 35
Mag 6 1/2
Alberni
eP 05 05 16
eS 05 11 28
Banff
iP 05 05 44.5
Halifax
eP 05 09 05
iS 05 18 13
iSS 05 26 22
eL 05 29.0
Ottawa
eP 05 08 25 c
S 05 17 13
SSS 05 24 44
Resolute
iP 05 05 11 d
PP 05 06 45
iS 05 11 17
iL 05 14 14
Seven Falls
eP 05 08 32
S 05 17 18
SSS 05 24 48
Shawinigan Falls
eP 05 08 28 c
Victoria
eP 05 05 24 c
iPP 05 06 59
iS 05 11 39
esS 05 12 36
SS 05 15.0
eL 05 18.4

MAY 12
U.S.C.G.S.
9 1/2S, 159E
Solomon Islands
H = 08 06 01
h = 100 km
Resolute
eP 08 20 00

DOMINION OBSERVATORIES

MAY 12
U.S.C.G.S.
23 1/2S, 64 1/2W
Salta Province, Argentina
H = 09 46 51
Mag 6 3/4
Alberni
eP 09 59 56
Banff
iP 09 59 36.9
Halifax
eP 09 57 50 d
iP 09 57 50.5 c
iS 10 06 42
iS_cS 10 07 48
Horseshoe Bay
iP 09 59 51 d
Ottawa
iP 09 57 59 c
PP 10 02 17
S 10 07 04
Resolute
eP 10 00 37 c
PP 10 04 35
SKS 10 11 17
iS 10 12 08
PS 10 13 38
e 10 14 19
PKKP 10 17 02
SS 10 18 50
S_cS, S_cS 10 24 17
iL 10 28.0
Seven Falls
eP 09 58 06
S 10 07 17
Shawinigan Falls
iP 09 58 04 c
i 09 58 54
Victoria
eP 09 59 46 c
eSKS 10 10 18
eS 10 10 26
e 10 10 40

MAY 12
U.S.C.G.S.
20 1/2S, 63 1/2W
Bolivia
H = 10 14 00
Banff
eP 10 26 31
Ottawa
eP 10 24 55
Resolute
eP 10 27 35
PP 10 31.5
Seven Falls
eP 10 25 01
Shawinigan Falls
eP 10 25 01
Victoria
eP 10 26 43

MAY 12
Ottawa
eP 11 35 01
Resolute
eP 11 38 26

MAY 12
Resolute
eP 12 02 (21)
e 12 04 04

MAY 12
Resolute
iP 12 45 39 c
e 12 48 18

MAY 12
Resolute
eP 14 55 20

MAY 12
U.S.C.G.S.
51 1/2N, 177W
Andreanof Islands,
Aleutian Islands
H = 21 40 22
Alberni
eP 21 47 01
Halifax
eP 21 51 28
eS 22 00 26
eSS 22 05 37
L 22 13.1
Ottawa
iP 21 50 47 d
Resolute
eP 21 47 54
PP 21 49 32
e 21 49 43
P_cP 21 50 02
eS 21 54 01
eL 21 56.3
S_cS 21 58 00
eL 21 58.3
Shawinigan Falls
eP 21 50 50 d
Victoria
eP 21 47 10
eS 21 52 36

MAY 12
U.S.C.G.S.
51 1/2N, 177W
Andreanof Islands,
Aleutian Islands,
H = 21 59 56
Mag 6
Alberni
eP 22 06 35
Horseshoe Bay
eP 22 06 38
Ottawa
eP 22 10 21 d
Resolute
eP 22 07 28 c
P_cP 22 09 36
iS 22 13 24
S_cS 22 17 35

Seven Falls
eP 22 10 25
Shawinigan Falls
eP 22 10 25
Victoria
eP 22 06 43
eS 22 12 13

MAY 12
Resolute
iP 22 44 18 c

MAY 13
Resolute
eP 11 33 50

MAY 13
Resolute
eP 12 45.9

MAY 13
Resolute
eP 13 48 16

MAY 13
Resolute
eP 16 30 16

MAY 13
Canadian Arctic
H = 16 56 43.4
Mag 3.0
Resolute
iP_1 16 57 02.5 d
iS_1 16 57 17
D = 119 km

MAY 14
U.S.C.G.S.
Northern Sumatra
H = 00 48 40
Resolute
eP' 01 05 52
e 01 13 30
e 01 16.4

MAY 14
Resolute
eP 05 31 50

MAY 14
U.S.C.G.S.
Crete foreshock
H = 06 27 02
Resolute
eP 06 37 32
Shawinigan Falls
eP 06 38 15

MAY 14
U.S.C.G.S.
35 1/2N, 24 1/2E
Crete
H = 06 36 57
Mag 6 1/2
Banff
iP 06 49 42.5
Halifax
iP 06 47 38 d
i 06 47 49 c
e 06 49 05
ePP 06 50 09
iS 06 56 19
eS_cS 06 57 32
eSS 07 00 27
eSSS 07 03 25
Horseshoe Bay
eP 06 49 59
Ottawa
iP 06 48 23 d
S 06 57 48
Resolute
iP 06 47 26 d
iS 06 55 59
S_cS 06 57 17
eL 07 06 20

Seven Falls
eP 06 48 00
S 06 57 02
Shawinigan Falls
eP 06 48 09
Victoria
eP 06 50 05

MAY 14
U.S.C.G.S.
19S, 170E
New Hebrides Islands
H = 09 33 22
Ottawa
eP' 11 00 43
Resolute
(sP) 10 57 16
Shawinigan Falls
eP' 11 00 47

MAY 14
Resolute
eP 11 36 57

MAY 14
U.S.C.G.S.
19S, 170E
New Hebrides Islands
H = 11 49 20
h = 100 km
Ottawa
eP' 12 08 06
Resolute
eP' 12 07 42
SP 12 17 40
SS 12 23.8
Shawinigan Falls
eP' 12 08 10

DOMINION OBSERVATORIES

MAY 14
U.S.C.G.S.
19S, 170E
New Hebrides Islands
H = 13 19 32
h = 150 km
Resolute
eP' 13 37 50
SP 13 47 50
SS 13 54 00
Shawinigan Falls
eP' 13 38 17

MAY 14
47° 00'N, 70°19'W
About nine miles south of
Bonsecours, Quebec
H = 14 23 40.3
Mag 2.5
Montreal
S_1 14 25 06
D = 304 km
Seven Falls
P_1 14 23 46.9
S_1 14 23 51.9
D = 41 km
Shawinigan Falls
S_1 14 24 34.6
D = 194 km

MAY 14
Resolute
eP 16 26 16

MAY 14
Resolute
eP 16 49.8

MAY 14
Resolute
eP 17 42 55

MAY 14
U.S.C.G.S.
40N, 24 1/2E
Aegean Sea
H = 19 22 18
Resolute
eP 19 32 17
e 19 45.4
e 19 48.7
e 19 50 21

MAY 14
Resolute
eP 21 25 01

MAY 14
Resolute
eP 21 30 17
e 21 30 38
e 21 35.5
e 21 36.3
e 21 38.5
e 21 45.8

MAY 14
Resolute
eP 23 31 18

MAY 15
U.S.C.G.S.
54N, 158 1/2E
Kamchatka
H = 01 30 35
Resolute
eP 01 38 36
P_cP 01 40 27

MAY 15
Canadian Arctic
H = 06 24 18.6
Mag 2.1
Resolute
P_1 06 24 39
S_1 06 24 54.5
D = 127 km

MAY 15
U.S.C.G.S.
14N, 93W
Near coast of Mexico
H = 07 49 30
h = 100 km
Banff
iP 07 57 11
Resolute
eP 07 59 35 (c)
eS 08 07 55
S_cS 08 09 26
G 08 14.5

MAY 15
Resolute
eP 12 13 09 c

MAY 15
Resolute
eP 12 44 14

MAY 15
Resolute
eP 13 18 04.5

MAY 15
Resolute
eP 13 59 36

SEISMOLOGICAL BULLETIN - 1959

MAY 15
U.S.C.G.S.
Oaxaca, Mexico
H = 14 42 48
Banff
eP 14 49 59
Ottawa
eP 14 49 36
Resolute
iP 14 52 40.5 c
eS 15 00.5
Shawinigan Falls
eP 14 49 55

MAY 15
Resolute
eP 18 47 45
e 18 53 (08)
e 19 03.4
e 19 04.4

MAY 15
Resolute
eP 20 25 05
e 20 47.4
e 20 52.0

MAY 15
Resolute
(eP) 22 10 23
e 22 16 20
e 22 18 20
e 22 19 18

MAY 15
Resolute
eP 22 31 04

MAY 16
U.S.C.G.S.
65 1/2N, 156W
Alaska
H = 04 58 25
Resolute
eP 05 03 12
eS 05 07 04
Shawinigan Falls
eP 05 06 51

MAY 16
Resolute
eP 05 21 13

MAY 16
U.S.C.G.S.
4 1/2S, 153 1/2E
New Britain
H = 06 16 23
h = 60 km
Mag 6 3/4
Alberni
eP 06 29 10
Banff
iP 06 29 39
Halifax
ePP 06 37 44
ePKS 06 38 50
ePS 06 47 51
eSS 06 55 06
Horseshoe Bay
eP 06 29 20
Ottawa
eP' 06 35 17
PKKP 06 45 21
Resolute
eP 06 30 05
PP 06 34.2
PPP 06 36.3
SKS 06 40 34
PS 06 43 10
PKKP 06 46.8
Seven Falls
eP' 06 35 20
Shawinigan Falls
eP' 06 35 16

Victoria
eP 06 29 16
eS 06 39.4
eL 06 57

MAY 16
U.S.C.G.S.
4 1/2S, 153 1/2E
New Britain region
H = 07 31 18
h = 60 km
Resolute
ePP 07 48 39

MAY 16
Banff
eP 08 12 56.5
i 08 30 54.8
Resolute
iP 08 12 01.5 c
i 08 13 11

MAY 16
Resolute
eP 08 28 48

MAY 16
Resolute
eP 10 13 47

MAY 16
Resolute
eP 12 03 27
e 12 04 52

MAY 16
Resolute
eP 14 37 27

DOMINION OBSERVATORIES

MAY 16
Resolute
eP 14 52 05

MAY 16
Resolute
eP 15 56 03

MAY 17
U.S.C.G.S.
47 1/2N, 113W
Northwestern Montana
H = 10 56 52
Alberni
eP 10 58 44.3
D = 905 km
Banff
iP 10 57 54.7
D = 453 km
Horseshoe Bay
eP_1 10 58 47.4
e 10 59 59.6
D = 795 km
Resolute
eP 11 03.1
Victoria
eP 10 58 33.7
D = 792 km

MAY 17
U.S.C.G.S.
Northern Mariana Islands region
H = 10 57 27
Resolute
eP 11 09 21
e 11 11 25
e 11 11 43
e 11 11 48

MAY 17
Resolute
eP 18 41 38.5

MAY 17
U.S.C.G.S.
54N, 159 1/2E
Near east coast of Kamchatka
H = 19 15 42
Resolute
eP 19 23 44 c
P_cP 19 25 32

MAY 18
Resolute
eP 03 56.6
e 04 00 42

MAY 18
U.S.C.G.S.
36S, 148E
Southeastern Australia
H = 06 12 56
Ottawa
iP_1' 06 32 37 d
P_2' 06 32 42
Resolute
iP' 06 32 10
iP' 06 32 15
Seven Falls
eP' 06 32 46
Shawinigan Falls
eP' 06 32 46

MAY 18
Resolute
eP 07 29 02

MAY 18
U.S.C.G.S.
52 1/2N, 173 1/2E
Near Islands
Aleutian Islands
H = 07 24 11
Alberni
eP 07 31 30
Horseshoe Bay
eP 07 31 34
Resolute
iP 07 31 51.5
P_cP 07 33 52
eS 07 38 16
eL 07 40.7
Shawinigan Falls
eP 07 34 58 d
Victoria
eP 07 31 38

MAY 18
Resolute
eP 10 02 21

MAY 18
Resolute
eP 10 04 03
e 10 04 14

MAY 18
Resolute
eP 13 51.4
e 14 42.3

MAY 18
Resolute
eP 15 07 07

MAY 18
U.S.C.G.S.
Near north Island, New Zealand
H = 19 00 33
Resolute
eP' 19 19 32

SEISMOLOGICAL BULLETIN - 1959

MAY 19
U.S.C.G.S.
13N, 120 1/2E
Mindoro, Philippine Islands
H = 07 50 38
Resolute
eP 08 03.6
eP 08 03 40
eS 08 13.7
eL 08 28.4

MAY 19
U.S.C.G.S.
16S, 174W
Tonga Islands region
H = 08 35 23
Banff
eP 08 47 53

MAY 19
U.S.C.G.S.
33N, 68 1/2E
Eastern Afghanistan
H = 15 17 44
Resolute
eP 15 29 06
eS 15 38 27
SS 15 43.1
eL 15 47.1

MAY 19
Ottawa
eP 16 38 46

MAY 19
U.S.C.G.S.
23N, 142 1/2E
Volcano Islands region
H = 18 57 27
Resolute
eP 19 03 15 c
e 19 03 27

MAY 19
Resolute
eP 23 09.7
e 23 11.3

MAY 20
U.S.C.G.S.
23S, 114W
South Pacific Ocean
H = 00 50 03
Banff
e(P) 01 01 04
Ottawa
eP 01 01 55
Resolute
eP 01 03 41
e 01 14.2
e 01 16.6
e 01 22.3
Shawinigan Falls
eP 01 02 08

MAY 20
Resolute
eP 01 24 27

MAY 20
Resolute
eP 01 46 02

MAY 20
U.S.C.G.S.
About 200 miles off south coast of Java
H = 01 36 42
Ottawa
eP' 01 56 23 d
Resolute
eP' 01 55 26.5

MAY 20
Resolute
eP 06 21 46

MAY 21
46°33'N, 76°27'W
About 30 miles north-west of Maniwaki, Quebec
H = 09 38 51.3
Mag 3.9
Montreal
iP_1 09 39 31.5
iS_1 09 40 01.8
D = 249 km
Ottawa
iP_1 09 39 14.5
D = 140 km
Seven Falls
e 09 40 30.2
iS_1 09 40 55.7
D = 434 km
Shawinigan Falls
iP_1 09 39 36.0
iS_1 09 40 10.3
D = 281 km

MAY 20
Ottawa
iP 10 21 16 d
Resolute
eP 10 18 25
e 10 20 37
e(S) 10 24 33
eL 10 27 13

MAY 20
Resolute
eP 10 49 15

MAY 20
U.S.C.G.S.
32 1/2N, 136 1/2E
South of Honshu, Japan
H = 11 26 28
h = 450 km
Banff
iP 11 37 26
Horseshoe Bay
eP 11 36 11

DOMINION OBSERVATORIES

Resolute
iP 11 36 44 c
P_cP 11 37 06.5
e 11 37 41
e 11 38 11
eS 11 45 10
Victoria
iP 11 37 12 c

MAY 20
Resolute
eP 12 53 46
e 12 56.0

MAY 20
Resolute
eP 16 25 08

MAY 20
Resolute
eP 16 42 52

MAY 20
U.S.C.G.S.
37N, 26 1/2E
Dodecanese Islands
H = 16 36 51
Resolute
eP 16 47.3

MAY 20
U.S.C.G.S.
44 1/2N, 149E
Kurile Islands
H = 19 35 03
Alberni
eP 19 44 44
Banff
eP 19 45 11
Horseshoe Bay
eP 19 44 50
Ottawa
eP 19 47 25 c
Resolute
eP 19 44 27 c
iP 19 44 28 d
eS 19 51 59
Shawinigan Falls
eP 19 47 26 c
Victoria
eP 19 44 52

MAY 20
U.S.C.G.S.
41 1/2N, 42E
Georgia, S.S.R.
H = 19 49 12
Banff
e 20 01 17
Ottawa
eP 20 01 15
Resolute
eP 19 59 24 d
Shawinigan Falls
eP 20 00 55

MAY 20
Resolute
eP 20 20 03 d

MAY 20
Resolute
eP 22 15 04
e 22 21.1

MAY 21
U.S.C.G.S.
18 1/2N, 121E
Near north coast
of Luzon, Philippine
Islands
H = 02 22 56
Resolute
eP 02 35 29 d
eS 02 45 48

MAY 21
Resolute
eP 03 15 03.5
e 03 39 22

MAY 21
Resolute
eP 03 46 02
e 03 51 08
e 03 53 44

MAY 21
Resolute
eP 03 57.5

MAY 21
U.S.C.G.S.
52 1/2N, 170 1/2W
Fox Islands,
Aleutian Islands
H = 06 51 40
Horseshoe Bay
eP 07 00 50
Ottawa
eP 07 01 35 c
Resolute
eP 06 58 47
P_cP 07 01 09
eS 07 04 52
eL 07 07.0
Shawinigan Falls
eP 07 01 40
Victoria
eP 07 00 51

MAY 21
Resolute
eP 09 53 (47)

MAY 21
Resolute
eP 09 59 25

SEISMOLOGICAL BULLETIN - 1959

MAY 21
U.S.C.G.S.
28S, 69W
Northern Chile
Argentina border
H = 11 34 23
h = 60 km
Mag 6
Halifax
iP 11 45 50 d
e 11 54 41
eS 11 55 17
e 11 55 39
eL 12 05 03
Horseshoe Bay
P 11 46 25
Ottawa
eP 11 45 54 c
P_cP 11 46 08
S 11 55 20
Resolute
eP 11 48 24
e 11 48 40
PP 11 52 30
SKS 11 59.1
eS 12 00 08
PS 12 01.5
(PKKP) 12 04 15
SS 12 07.3
Seven Falls
eP 11 46 04 d
S 11 55 48
S_cS 11 56 03
Shawinigan Falls
eP 11 46 01 c
P_cP 11 46 14
Victoria
eP 11 47 21

MAY 21
Resolute
eP 15 57 59

MAY 21
U.S.C.G.S.
39 1/2N, 118W
Western Nevada
H = 17 51 40
Mag 4 3/4
Resolute
eP 17 58 49

MAY 21
Resolute
eP 22 22 49

MAY 21
U.S.C.G.S.
Fox Islands,
Aleutian Islands
H = 22 31 50
Resolute
eP 22 38 49 c

MAY 22
Canadian Arctic
H = 00 46 20.1
Mag 1.4
Resolute
P_1 00 46 30.0
S_1 00 46 37.5
D = 61.5 km

MAY 22
Resolute
eP 01 39 38 c

MAY 22
U.S.C.G.S.
51 1/2N, 159E
Off southeast coast
of Kamchatka
H = 04 41 57
Resolute
eP 04 50 15
eS 04 57 04
eL 05 00 29

MAY 22
U.S.C.G.S.
40S, 176E
North Island,
New Zealand
H = 06 57 00
Ottawa
iP' 07 16 14
i 07 16 31
PP 07 18 30
PKS 07 19 32
Resolute
eP' 07 16 11.5 (c)
(PKS) 07 19 24
SS 07 35.5
Shawinigan Falls
eP' 07 16 19
PKS 07 19 39

MAY 22
U.S.C.G.S.
25 1/2N, 95 1/2E
Northern Burma
H = 08 31 00
Resolute
eP 08 43 16(c)
PP 08 46.3
SSS 09 01 50
G 09 04.3

MAY 22
Resolute
eP 11 51 01.

MAY 22
Resolute
eP 23 43 04

MAY 23
Resolute
eP 05 30 25

DOMINION OBSERVATORIES

MAY 23
Resolute
eP 10 06 19

MAY 23
Resolute
eP 21 38 37

MAY 23
Canadian Arctic
H = 22 17 54.7
Mag 1.8
Resolute
P_1 22 18 21
S_1 22 18 41
D = 164 km

MAY 24
U.S.C.G.S.
19 1/2N, 64 1/2W
Virgin Islands
H = 00 09 29
Ottawa
ePZ 00 16 03
eS 00 20 56
Resolute
ePZ 00 19 21
eS 00 27 21
eL 00 32.3
Victoria
iP 00 19 03 c

MAY 24
U.S.C.G.S.
20 1/2S, 179W
Fiji Islands region
H = 04 39 27
h = 700 km
Ottawa
eP' 04 56 53
Resolute
eP' 04 56 42

MAY 24
Resolute
ePZ 06 40.5
e 06 41 03

MAY 24
Resolute
ePZ 10 37 49
e 10 37 55.5

MAY 24
Ottawa
ePZ 10 54 07

MAY 24
U.S.C.G.S.
20 1/2N, 90 1/2E
Bhutan-India Border
H = 11 28 18
Resolute
iP 11 40 26 c
i 11 40 36
eS 11 50.3
S_cS 11 51.3

MAY 24
U.S.C.G.S.
37 1/2N, 4E
Off north coast of Algeria
H = 13 19 41
Ottawa
ePZ 13 29 37
Resolute
ePZ 13 29 26 c
eS 13 37.5
S_cS 13 41.1

MAY 24
U.S.C.G.S.
44 1/2N, 149E
Kurile Islands
H = 14 00 10
Resolute
ePZ 14 09 33

MAY 24
U.S.C.G.S.
17 1/2N, 97W
Oaxaca, Mexico
H = 19 17 40
h = 100 km
Mag 6 3/4 - 7
Alberni
ePZ 19 25 01 d
eS 19 30 56
Halifax
iP 19 25 02 c
ipP 19 25 23
isP 19 25 48
iPP 19 26 32
iP_cP 19 27 02
iS 19 30 52
iG 19 33 50
Horseshoe Bay
P 19 24 53 d
e 19 27 16
S 19 30 42
Ottawa
iP 19 24 10
S 19 29 26
Resolute
iP 19 27 20 d
PPP 19 30 55
iS 19 35 09
SS 19 39 00
Seven Falls
ePZ 19 24 41
S 19 30 11
Shawinigan Falls
ePZ 19 24 21
S 19 30 02
Victoria
ePZ 19 24 49 d,S,E
e 19 26 26
iS 19 30 36
eL 19 36.9

SEISMOLOGICAL BULLETIN - 1959

MAY 25
Resolute
ePZ 07 48 53

MAY 25
Resolute
ePZ 10 47 23.5

MAY 25
Resolute
iP 10 59 19 c

MAY 25
Resolute
ePZ 11 09 07 c

MAY 25
U.S.C.G.S.
18 1/2N, 147E
Mariana Islands
H = 17 06 24
Resolute
ePZ 17 18 36

MAY 25
Resolute
ePZ 17 46 02

MAY 25
U.S.C.G.S.
27N, 94E
Eastern India
H = 19 20 48
Resolute
ePZ 19 32 49 c

MAY 25
Resolute
ePZ 21 28 36 c

MAY 26
Resolute
ePZ 02 17 51.5 c

MAY 26
U.S.C.G.S.
27 1/2N, 126 1/2E
Ryukyu Islands region
H = 04 13 01
h = 100 km
Mag 6 1/2 - 6 3/4
Horseshoe Bay
ePZ 04 25 09
Ottawa
eP' 04 30 37
Resolute
iP 04 24 33 d
PP 04 27 24
iS 04 33 59
sS 04 34 32
SS 04 39.1
SSS 04 42.4
Victoria
ePZ 04 25 13 d

MAY 26
U.S.C.G.S.
17N, 61W
Leeward Islands
H = 05 27 36
Ottawa
ePZ 05 33 56
T 05 40 24
Resolute
iP 05 37 51 d
i 05 38 05
e 05 38 30
P_cP 05 38 42
Shawinigan Falls
ePZ 05 33 59

MAY 26
Resolute
iP 06 33 42 c

MAY 26
U.S.C.G.S.
37 1/2N, 70E
Afghanistan - Tadzhik border
H = 06 36 00
Resolute
ePZ 06 47 00 (d)
P_cP 06 47 30
eS 06 56.1
S_cS 06 57.1

MAY 26
Resolute
ePZ 09 06.9

MAY 26
Resolute
ePZ 13 34 16 d
e 13 38 35
e 13 40.4

MAY 26
Resolute
ePZ 17 34 12 c

MAY 26
Resolute
ePZ 20 09 25
e 20 11 15

MAY 27
U.S.C.G.S.
33N, 141E
South of Honshu, Japan
H = 04 51 45
Resolute
ePZ 05 02 34.5 c
eL 05 28.2

MAY 27
Resolute
ePZ 05 55 40 d

DOMINION OBSERVATORIES

MAY 27
Resolute
eP 06 13 35

MAY 27
Resolute
eP 10 25 02

MAY 27
Resolute
eP 10 35.4
e 10 36.4

MAY 27
Resolute
iP 11 25 54 d

MAY 27
U.S.C.G.S.
23 1/2N, 120 1/2E
Formosa
H = 13 49 47
Resolute
eP 14 01 55.5 (c)

MAY 27
Resolute
eP 15 36 49

MAY 27
Canadian Arctic
H = 19 28 38.5
Mag 2.0
Resolute
iP_1 19 28 45.6
iS_1 19 28 51.0
D = 44.3 km

MAY 27
U.S.C.G.S.
46N, 21E
Hungary-Romania border
H = 20 38 26
Resolute
eP 20 47 37
e 20 47 44
eL 21 02.1

MAY 27
U.S.C.G.S.
13N, 124 1/2E
Luzon, Philippine Islands
H = 21 55 25
Resolute
eP 22 08 23 c
e 22 10 41
eL 22 32.2

MAY 28
U.S.C.G.S.
Colombia
H = 04 06 15
Resolute
eP 04 17 43.5

MAY 28
Resolute
eP 04 43 25

MAY 28
Canadian Arctic
H = 05 42 54.5
Mag 2.7
Resolute
e 05 43 59
P_1 05 44 07
(S_n) 05 44 37
S_1 05 45 03
D = 450 km

MAY 28
U.S.C.G.S.
17N, 147E
Mariana Islands
H = 07 35 30
h = 100 km
Resolute
eP 07 47 36

MAY 28
Resolute
iP 09 09 59 d

MAY 28
U.S.C.G.S.
13N, 124E
Luzon, Philippine Islands
H = 15 14 29
Resolute
eP 15 27 29
iP 15 27 30
eS 15 38.3
SS 15 44.3
eL 15 51.3

MAY 28
Resolute
eP 19 24 10

MAY 28
U.S.C.G.S.
4S, 141 1/2E
New Guinea
H = 22 27 15
h = 100 km
Resolute
eP 22 41 04

MAY 28
Ottawa
iP 22 58 06 d
i 22 58 29
Resolute
eP 22 54.6
e 22 58 58
Seven Falls
eP 22 58 06
i 22 58 29

MAY 29
Resolute
eP 01 03 44

MAY 29
46°32'N, 76°43'W
About 40 miles northwest of Maniwaki, Quebec
H = 02 16 48.8
Mag 3.0
Montreal
P_1 02 17 31.9
i 02 17 34.6
S_1 02 18 04.4
D = 266 km
Ottawa
P_1 02 17 12.6
i 02 17 17
S_1 02 17 30.7
L 02 17 36.7
D = 148.5 km
Seven Falls
e 02 18 37.2
S_1 02 18 51.2
i 02 19 04.2
D = 453 km

MAY 29
U.S.C.G.S.
19S, 169 1/2E
New Hebrides Islands
H = 10 42 48
h = 100 km
Mag 6 1/2
Halifax
eP' 11 01 51 c
iPKS 11 05 06 c
e 11 05 38
e 11 17 13
Horseshoe Bay
P 10 55 46
Ottawa
eP' 11 01 33
Resolute
eP 10 57 12
P' 11 01 10
pPP 11 02 10
pPPP 11 04 39
SKS 11 07 39
SKKS 11 08 15
eS 11 09 16
pPS 11 11 36
PSP 11 12 15
PKKP 11 12 26
SS 11 17.0
sSS 11 17 44
SSS 11 21.3
G 11 28.1
Seven Falls
eP' 11 01 38
Victoria
iP 10 55 45 c

MAY 29
U.S.C.G.S.
21N, 146 1/2E
Mariana Islands
H = 12 28 06
Resolute
eP 12 40 01 d
e 12 40 13
e 12 40 36

MAY 29
U.S.C.G.S.
21 1/2N, 145 1/2E
Mariana Islands
H = 17 52 42
Resolute
eP 18 04 37.5
iP 18 04 38 c
eL 18 29.5

MAY 29
U.S.C.G.S.
50 1/2N, 157E
Near south coast of Kamchatka
H = 18 29 27
Horseshoe Bay
P 18 38 15
Ottawa
eP 18 41 17
Resolute
iP 18 37 58 c
eL 18 48.4
Seven Falls
eP 18 41 19
Victoria
eP 18 38 19

MAY 29
Resolute
iP 19 22 46 c

MAY 30
Canadian Arctic
H = 02 44 07.1
h = 18 km
Mag 1.8
Resolute
P_n 02 44 34.5
P_1 02 44 36.7
S_n 02 44 56.5
S_1 02 44 59.2
D = 183 km

DOMINION OBSERVATO RIES

MAY 30
Resolute
eP 12 33 43.5

MAY 30
Resolute
eP 12 50 28.5
iP 12 50 29 c
e 13 03.5
e 13 31 04

MAY 31
Resolute
eP 01 20 52 d

MAY 31
Resolute
eP 03 03 07

MAY 31
U.S.C.G.S.
20N, 80W
Cayman Islands
H = 05 36 25
Ottawa
eP 05 42 08
Resolute
eP 05 46 03
iP 05 46 13
eS 05 53.8
SS 05 57.5
eL 05 59.2
Seven Falls
eP 05 42 30

MAY 31
U.S.C.G.S.
6 1/2S, 155E
Solomon Islands
H = 09 28 09
Mag 6 1/2
Halifax
iP' 09 47 21 d
ePKS 09 50 41
e 09 51 10
ePS 09 59 25
eL 10 28.3

Horseshoe Bay
eP 09 41 05.3
Ottawa
eP' 09 47 03
Resolute
eP 09 42 04
ePP 09 45.4
e 09 50 46
eSKS 09 52 39
ePS 09 55 08
Seven Falls
eP' 09 47 09
Victoria
e 09 41 05

MAY 31
Resolute
eP 09 58 34
e 10 00 43
e 10 10.2

MAY 31
U.S.C.G.S.
46 1/2N, 27E
Romania
H = 12 15 51
Resolute
eP 12 25 08
eS 12 32.5

MAY 31
U.S.C.G.S.
37 1/2N, 49E
Northwestern Iran
H = 13 01 44
Resolute
eP 13 12 28

MAY 31
51.7N, 130.2W
South of Queen
Charlotte Islands
H = 15 01 08
Mag 4.4
Alberni
eP 15 02 12.6
e 15 02 26.0
eS_n 15 03 15.8
D = 474 km
Horseshoe Bay
P 15 02 23.4
S 15 03 41.0
D = 564 km
Resolute
eP 15 07 02
e 15 09 16
eS 15 11.7
e 15 12 16
eSS 15 13.2
e 15 15.9
e 15 17.1
Victoria
eP 15 02 30.2
e 15 02 51.3
eS_n 15 03 58.9
D = 620 km

MAY 31
South west of
Queen Charlotte Islands
H = 16 14 45
Mag 3.6
Horseshoe Bay
eP 16 16 00.7
Victoria
eP 16 16 07.2

MAY 31
Alberni
eP 16 30 30.9
Horseshoe Bay
eP 16 36 03.2
e(S) 16 57 22.6
Resolute
eP 16 41.8
e 16 46.4
e 16 49.5

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Victoria
eP 16 36 15.3

MAY 31
U.S.C.G.S.
21 1/2N, 146 1/2E
Mariana Islands
H = 17 17 41
Resolute
eP 17 29 35
e 17 29 47

JUNE 1
U.S.C.G.S.
4S, 154 1/2E
Solomon Islands region
H = 05 31 31
h = 400 km
Resolute
eP 05 44 32
Seven Falls
eP' 05 49 43

JUNE 1
U.S.C.G.S.
6 1/2S, 155E
Solomon Islands
H = 12 32 26
h = 400 km
Resolute
eP 12 45 43
PP 12 50 04
SKS 12 55 40
PS 12 59.0

JUNE 1
U.S.C.G.S.
6 1/2S, 155 1/2E
Solomon Islands
H = 17 07 23
h = 100 km
Halifax
e 17 29 47
epPPP 17 31 45
e 17 54 01
eG 18 07.4

Ottawa
eP' 17 26 10 d

JUNE 1
Ottawa
iP 18 15 08 c

JUNE 1
Halifax
eP 19 29 42 c
iP 19 29 43 d

JUNE 1
Resolute
eP 20 33 10 d

JUNE 1
Resolute
eP 22 58 38
eP 22 58 41

JUNE 2
U.S.C.G.S.
31 1/2N, 131 1/2E
Near coast of Kyushu,
Japan
H = 00 47 17
Resolute
iP 00 58 28.5 c
i 00 58 42
eS 01 07 34
Victoria
eP 00 59 09

JUNE 2
U.S.C.G.S.
0, 123 1/2E
Off south coast of
Minahasa, North Celebes
H = 01 56 32
h = 200 km
Ottawa
eP' 02 15 26

Resolute
eP 02 10 07
PP 02 14.2
Seven Falls
eP' 02 15 26

JUNE 2
U.S.C.G.S.
21N, 121E
Batan Islands region
H = 02 37 46
Resolute
eP 02 50 04
iP 02 50 13 d
PP 02 53 08
e 02 53 45
PPP 02 55.3
eS 03 00 20
SS 03 05.7

JUNE 2
Resolute
eP 03 17 41
Victoria
eP 03 05 48

JUNE 2
U.S.C.G.S.
25S, 176W
Tonga Islands region
H = 03 23 12
Resolute
eP' 03 41 52

JUNE 2
U.S.C.G.S.
25 1/2S, 176W
Tonga Islands region
H = 03 31 55
Horseshoe Bay
P 03 44 49
Resolute
eP' 03 50 32
PP 03 51 09
e 03 51 30

DOMINION OBSERVATORIES

Victoria
eP 03 44 47

JUNE 2
U.S.C.G.S.
25S, 176W
Tonga Islands region
H = 03 48 13
Resolute
eP 04 06 52

JUNE 2
U.S.C.G.S.
25 1/2S, 176W
Tonga Islands region
H = 03 52 06
Resolute
eP' 04 10 45
eP' 04 10 52

JUNE 2
U.S.C.G.S.
21N, 121 1/2E
Batan Island region
H = 04 57 18
Resolute
eP 05 09 38
iP 05 09 41.5
i 05 09 46.5
eS 05 19 52
SS 05 25.3

JUNE 2
U.S.C.G.S.
43S, 72W
Chile-Argentina border
H = 05 42 26
h = 150 km
Halifax
iP 05 55 05 c
Ottawa
iP 05 55 05 c
Resolute
eP' 06 01 01 c
Seven Falls
eP 05 55 13

JUNE 2
U.S.C.G.S.
21 1/2N, 121 1/2E
Batan Islands region
H = 05 42 34
Resolute
eP 05 54 53 c

JUNE 2
48.7N, 122.0W
Northwest Washington
H = 08 34 55
Horseshoe Bay
P 08 35 14.7
D = 121 km
Victoria
eP 08 35 12.8
eS 08 35 26.2
D = 109 km

JUNE 2
Resolute
e 17 36 49

JUNE 2
U.S.C.G.S.
23N, 121 1/2E
Near east coast of
Formosa
H = 19 13 30
Resolute
eP 19 25 40
eS 19 35.6
S_cS 19 36.6

JUNE 3
Resolute
eP 02 17 18

JUNE 3
U.S.C.G.S.
4N, 77W
Near west coast of
Colombia
H = 03 43 42
Halifax
eP 03 51 42
eS 03 57 59
Horseshoe Bay
eP 03 53 51
Ottawa
iP 03 51 33
Resolute
iP 03 55 05 d
eS 04 04 14
S_cS 04 05.2
SS 04 09 05
SSS 04 12.4
eL 04 12 45
Seven Falls
eP 03 51 50
Victoria
eP 03 53 49 d

JUNE 3
U.S.C.G.S.
52 1/2N, 170W
Fox Islands,
Aleutian Islands
H = 05 43 28
Halifax
eP 05 54 04 (d)
Ottawa
iP 05 53 21 d
Resolute
eP 05 50 32.5
P_cP 05 52 56
eS 05 56.3
eL 05 58 26
Seven Falls
eP 05 53 29

JUNE 3
Resolute
eP 08 35 45

SEISMOLOGICAL BULLETIN - 1959

JUNE 3
U.S.C.G.S.
55 1/2N, 163E
Near east coast of
Kamchatka
H=08 36 04
Resolute
eP 08 43 45.5
eS 08 50 01
eL 08 52 48

JUNE 3
Resolute
iP 11 51 02.5 c

JUNE 3
U.S.C.G.S.
Colombia aftershock
H = 22 17 45
Resolute
eP 22 29 03.5

JUNE 4
U.S.C.G.S.
9N, 84 1/2W
Near coast of
Costa Rica
H = 01 57 49
Ottawa
eP 02 05 02
Resolute
eP 02 08 33

JUNE 4
Resolute
eP 07 41 32

JUNE 4
Resolute
eP 10 45 51

JUNE 4
Resolute
iP 11 03 55.5 d

JUNE 4
U.S.C.G.S.
59 1/2N, 153W
Cook Inlet
H = 12 31 56
h = 100 km
Mag 5 1/2
Halifax
iP 12 41 01 c
e(S) 12 48 26
Horseshoe Bay
P 12 36 22 d
Ottawa
eP 12 40 13
Resolute
iP 12 37 17 d
pP 12 37 40
sP 12 37 51
eS 12 42 04
sS 12 42 30
e 12 45 11
Victoria
eP 12 36 27
e 12 36 36
e 12 37 48

JUNE 5
U.S.C.G.S.
7S, 155 1/2E
Solomon Islands
H = 05 58 40
h = 150 km
Resolute
PS 06 25.5
e 06 36.2
G 06 41 -

JUNE 5
Ottawa
eP 06 08 12

JUNE 5
Resolute
eP 09 45.1
eP 09 45 12

JUNE 5
Resolute
iP 14 05 34 c

JUNE 5
U.S.C.G.S.
3 1/2N, 126 1/2E
Molucca Passage
H = 18 28 57
Resolute
eP 18 42 36.5 c

JUNE 5
Resolute
eP 19 54 50 c

JUNE 5
Ottawa
eP 20 00 46
Resolute
eP 19 57 30 c

JUNE 5
U.S.C.G.S.
12N, 86 1/2W
Near coast of
Nicaragua
H = 20 37 15
h = 100 km
Halifax
eP 20 44 30
eS 20 50 28
esS 20 50 49
Ottawa
eP 20 44 02 c
Resolute
iP 20 47 35.5 (c)
iP 20 47 36 d
sPP 20 50 39
PPP 20 51 22
eS 20 56.1
sS 20 56.6
Victoria
eP 20 45 45

DOMINION OBSERVATORIES

JUNE 5
Resolute
iP 21 49 14 d

JUNE 5
Southeast of Victoria
H = 22 37 34
Mag 1.3
Alberni
S - P = 21.5"
D = 175 km
Victoria
eP 22 37 39.4
eS 22 37 43.4
D = 32 km

JUNE 6
H = 00 31 33
Mag 2.3
Alberni
S - P = 25.6"
D = 205 km
Victoria
eP 00 31 47.0
S 00 31 57.5
D = 86 km

JUNE 6
Resolute
eP 01 38 36.5 d

JUNE 6
Resolute
eP 01 56 30
e 02 00 17
e 02 07.2

JUNE 6
Resolute
eP 02 10 16

JUNE 6
Resolute
eP 05 26 05
e 05 28 10.5

JUNE 6
Resolute
eP 07 32 08

JUNE 6
U.S.C.G.S.
15S, 173 1/2W
Samoa Islands region
H = 10 15 36
Resolute
eS 10 41.6
ePPS 10 43 -

JUNE 6
U.S.C.G.S.
16 1/2N, 93 1/2W
Near coast of Chiapas
Mexico
H = 11 28 13
Resolute
eP 11 38 13 c
e 11 38 22
eS 11 46.5

JUNE 6
Resolute
eP 20 21 45
e 20 22 12

JUNE 6
U.S.C.G.S.
6 1/2S, 155 1/2E
Solomon Islands
H = 20 51 19
Ottawa
iP' 21 10 15
Resolute
eP 21 05 14
PP 21 09 37

JUNE 7
U.S.C.G.S.
10 1/2N, 126E
Samar, Philippine
Islands
H = 03 45 21
Resolute
eP 03 58 28.5
PP 04 02 07
eS 04 09.4

JUNE 7
Resolute
eP 05 40 56 c

JUNE 7
Resolute
eP 06 55 52.5

JUNE 7
Resolute
eP 07 03 21

JUNE 7
Resolute
eP 08 45 20
e 08 45 32.5

JUNE 7
U.S.C.G.S.
Samar, Philippine
Islands
H = 08 34 32
Resolute
eP 08 47 41
PP 08 53 23
(SKS) 08 58.2
eS 08 58.6

JUNE 7
U.S.C.G.S.
1/2N, 18W
Atlantic Ocean
H = 13 39 38
Halifax
eP 13 49 56
eS 13 58 02
eSSS 14 04.5
Ottawa
eP 13 50 41
Resolute
eP 13 52 26 (d)
iP 13 52 c
eS 14 03 08
SS 14 08.8
SSS 14 12.1
eL 14 15.2
Seven Falls
eP 13 50 28

JUNE 8
Resolute
eP 12 14 43

JUNE 8
U.S.C.G.S.
14 1/2S, 76W
Near coast of Peru
H = 14 12 05
h = 60 km
Resolute
eP 14 25 00 c

JUNE 9
Resolute
eP 04 47 30 d

JUNE 9
Resolute
eP 11 31 43 d

JUNE 9
Ottawa
eP 13 29 31 d

JUNE 9
Resolute
eP 14 44 19 c

JUNE 9
U.S.C.G.S.
33S, 179 1/2W
Kermadec Islands region
H = 14 53 30
Ottawa
eP' 15 12 25
Resolute
eP' 15 12 20 c
Seven Falls
eP' 15 12 31

JUNE 9
Resolute
eP 16 57 11

JUNE 9
Resolute
eP 17 38 28.5

JUNE 9
U.S.C.G.S.
58S, 9 1/2W
About 600 miles south-
west of Bouvet Island
H = 23 10 38
Resolute
eP' 23 30 11
SS 23 52.3

JUNE 10
Resolute
eP 01 14 35 c

JUNE 10
Resolute
eP 02 23.3

JUNE 10
U.S.C.G.S.
36N, 24E
Crete
H = 04 16 01
Halifax
iP 04 26 40 d
Ottawa
iP 04 27 26 d
Resolute
iP 04 26 31 d
eS 04 35 04
eL 04 42.2
Seven Falls
eP 04 27 02

JUNE 10
Resolute
eP 04 37 04

JUNE 10
Resolute
iP 06 52 41 d

JUNE 10
Resolute
eP 07 20 44.5

JUNE 10
U.S.C.G.S.
13 1/2N, 120E
Mindoro, Philippine
Islands
H = 09 49 53
h = 100 km
Resolute
iP 10 02 43 c
iP 10 02 43.5 d

JUNE 11
Victoria
eP 00 07 41

JUNE 11
Ottawa
eP 04 47 53 d

JUNE 11
Resolute
eP 08 45 46

JUNE 11
Seven Falls
eP 16 04 58

JUNE 11
Resolute
eP 18 26 15.5 c

JUNE 11
Southern Greece
H = 21 09 30
Ottawa
eP 21 20 37
Resolute
eP 21 19 43 c
Seven Falls
eP 21 20 11

JUNE 11
U.S.C.G.S.
21 1/2S, 69 1/2W
Northern Chile
H = 23 32 47
Ottawa
eP 23 43 50
P_cP 23 44 10
Seven Falls
eP 23 43 59
P_cP 23 44 19

JUNE 12
U.S.C.G.S.
51 1/2N, 175W
Fox Islands,
Aleutian Islands
H = 00 45 56
Ottawa
eP 00 55 55
Resolute
eP 00 53 13
e 00 55 28
e 00 55 37
eS 00 59 28
eL 01 01 46

JUNE 12
Resolute
eP 06 15 25

JUNE 12
Resolute
eP 07 30 09
e 07 31 46

JUNE 12
48.7N, 127.2W
West of Vancouver Island
H = 08 21 03
Mag 3.1
Alberni
S - P = 22.6
D = 184 km
Victoria
eP 08 21 44.1
eS 08 22 16.6
D = 280 km

JUNE 12
Resolute
eP 13 17 01.5
e 13 17 43

JUNE 12
Resolute
iP 13 21 20 d
i 13 22 15
i 13 22 50

JUNE 12
Resolute
eP 14 23 19

JUNE 12
Resolute
eP 20 46 41

JUNE 12
U.S.C.G.S.
Off coast of Peru
H = 22 25 53
Resolute
eP 22 38 32
eP 22 38 43

JUNE 13
Resolute
eP 01 04 37

JUNE 13
Resolute
iP 01 12 23 c

JUNE 13
Resolute
eP 06 36 10 c

JUNE 13
U.S.C.G.S.
36N, 32E
Near south coast of Turkey
H = 12 02 00
Ottawa
eP 12 13 47
Resolute
iP 12 12 35 c
Seven Falls
eP 12 13 25
Shawinigan Falls
eP 12 13 36

JUNE 13
U.S.C.G.S.
Kermadec Islands
H = 12 58 07
Resolute
eP' 13 16 52 c

JUNE 13
Resolute
eP 16 15 01
e 16 36.2

JUNE 13
Resolute
eP 19 55 06

JUNE 13
U.S.C.G.S.
46 1/2N, 13E
Austria-Italy border
H = 21 56 40
Resolute
eP 22 05.7

JUNE 13
U.S.C.G.S.
Southern Peru
H = 22 16 24
Resolute
eP 22 29 27

JUNE 14
U.S.C.G.S.
20 1/2S, 68W
Southwestern Bolivia
H = 00 11 57
h = 100 km
Mag 7 1/4 - 7 1/2
Alberni
eP 00 - - d,S,E
Halifax
iP 00 22 34 d
iP_cP 00 23 04
ipPP 00 25 21
iS 00 31 06
i 00 31 16
isS 00 31 51
i 00 32 17
i 00 33 14
i(SS) 00 35 09
isSS 00 36 21
Horseshoe Bay
P 00 24 (23) d
S 00 34 (43)
Lillooet
iP 00 24 25 d
e 00 24 44
pP 00 24 59
SP 00 25 20
e 00 25 56
Ottawa
iP 00 22 38 d
S 00 31 18
e 00 33 15
SS 00 35 22
e 00 36 16
Resolute
eP 00 25 20
iP 00 25 21 d
sP 00 25 55
ePP 00 29.3
sPP 00 29 54
i 00 33 39
SKS 00 35 40
iS 00 36 28
SP 00 37 49
pPS 00 38 40
SS 00 42 57
Saskatoon
iP 00 23 59
S 00 33 57
Seven Falls
eP 00 22 48 d
P_cP 00 23 23
S 00 31 34
i 00 32 27
i 00 33 23
Shawinigan Falls
iP 00 22 45 d
S 00 31 32
Victoria
iP 00 24 23 d,S,E
pP 00 24 56
sP 00 25 18
S 00 34 40
sS 00 35 20
e 00 36 29
L 00 54 24

JUNE 14
U.S.C.G.S.
39 1/2N, 120 1/2W
California
H = 01 26 34
Resolute
eP 01 33 47.5 c

JUNE 14
Resolute
eP 04 50 14 (c)

JUNE 14
Resolute
eP 07 27 15
e 07 27 23

JUNE 14
Saskatoon
P 08 11 55

JUNE 14
U.S.C.G.S.
20S, 173 1/2W
Tonga Islands
H = 14 56 57
Resolute
PPS 15 22.1
eL 15 55.4

JUNE 14
Resolute
eP 16 26 13 c
eP 16 26 26

JUNE 14
U.S.C.G.S.
27N, 143 1/2E
Bonin Islands
H = 16 47 04
Resolute
eP 16 58 27.5

JUNE 14
Resolute
eP 18 43 (59)

JUNE 14
U.S.C.G.S.
64N, 152W
Alaska
H = 20 48 42
Ottawa
eP 20 56 56
Resolute
eP 20 53 32
eS 20 57 32
eL 20 59.4
Shawinigan Falls
eP 20 56 58

JUNE 14
Resolute
eP 21 07 12

JUNE 14
Resolute
eP 21 28 57
e 21 31 59

JUNE 14
Resolute
eP 23 42 26 c
e 23 50.2
e 23 52.5
e 23 55.3

JUNE 15
U.S.C.G.S.
25N, 122 1/2E
Near northeast coast of Formosa
H = 02 38 48
Resolute
iP 02 50 46 d
i 02 51 16
eS 03 00.4
eL 03 14.1

JUNE 15
Resolute
eP 06 51 43.5
e 07 02.4
e 07 05.4
e 07 08.0

JUNE 15
Resolute
eP 07 42 37 d
e 07 45 06
e 07 48.3
e 07 51.3
e 07 53.5

JUNE 15
Resolute
eP 08 55 51
e 08 56 12
e 09 02.3

JUNE 15
Resolute
eP 10 55 19.5

JUNE 15
Resolute
eP 14 39 54

JUNE 15
Resolute
eP 15 39 01

JUNE 15
Resolute
eP 22 39 41

JUNE 15
48.9N, 124.1W
Southern Vancouver Island
H = 23 18 37
Mag 2.1
Alberni
S - P = 7.7
D = 63 km
Victoria
P 23 18 48.3
S 23 18 56.9
D = 71 km

JUNE 16
U.S.C.G.S.
42 1/2N, 124E
Bulgaria
H = 00 32 17
Resolute
eP 00 42 00

JUNE 16
Victoria
P 07 54 51

JUNE 16
U.S.C.G.S.
15N, 93 1/2W
Off coast of Chiapas, Mexico
H = 08 02 05
h = 60 km
Lillooet
eP 08 04 55
Ottawa
iP 08 08 57
Resolute
eP 08 12 05 d
e 08 12 27
eS 08 20 13
SS 08 24.5
eL 08 26.5
Shawinigan Falls
eP 08 09 25

JUNE 16
U.S.C.G.S.
15 1/2N, 99 1/2W
Off coast of Oaxaca, Mexico
H = 12 45 55
Resolute
eP 12 56 00
e 13 08.8
e 13 16.0
e 13 20.0

JUNE 16
Resolute
iP 14 18 44

JUNE 16
U.S.C.G.S.
51N, 177W
Andreanof Islands, Aleutian Islands
H = 14 43 45
Resolute
eP 14 51 16.5
P_cP 14 53 24 (d)
eS 14 57 30
eL 15 05.2

JUNE 16
Resolute
eP 20 46 54

JUNE 16
48°34'N, 123°48'W
Southern Vancouver Island
H = 21 48 38
Mag 1.4
Alberni
P 21 48 54.1
S 21 49 07.5
D = 109 km
Victoria
P 21 48 42.1d,S,E
S 21 48 45.4
e 21 48 56.7
D = 27 km

JUNE 17
U.S.C.G.S.
34 1/2N, 98 1/2W
Southwestern Oklahoma
H = 10 27 07
Ottawa
eP 10 31 44
L 10 37 38
Shawinigan Falls
eP 10 32 06
L 10 38 08

JUNE 17
U.S.C.G.S.
12 1/2S, 167 1/2E
Santa Cruz Island
H = 20 46 03
h = 200 km
Resolute
PP 21 04 03

JUNE 17
Resolute
eP 21 15 35
e 21 15 55

JUNE 18
U.S.C.G.S.
55S, 129W
Pacific Ocean
H = 06 50 45
Resolute
eP' 07 10.0
(PKS) 07 13 20
PPPS 07 25.4
SS 07 29 49
SSS 07 34.7
eL 07 44.5

JUNE 18
Resolute
eP 14 49 55

JUNE 18
U.S.C.G.S.
54N, 160E
Near east coast of Kamchatka
H = 15 31 25
Mag 6 1/4 - 6 1/2
Alberni
P 15 39 43
PP 15 41 38
S 15 46 24
sS 15 47 15
S_cS 15 51 14
SS 15 49 53
Halifax
iP 15 43 11 c
iS 15 52 55
iSS 15 58 35
iSSS 16 01 27
iG 16 03 58
Lillooet
iP 15 39 48 c
eS 15 49 44
Ottawa
eP 15 42 38
i 15 43 21
e 15 43 40
e 15 48 32
e 15 50 04
S 15 51 44

DOMINION OBSERVATORIES

Resolute
eP 15 39 21
PP 15 41 06
iS 15 45 46
iL 15 49 09
Saskatoon
P 15 47 56
S 15 57 00
S_cS 16 02 52
Seven Falls
eP 15 42 42
S 15 51 53
SS 15 57 29
SSS 15 59 52
Shawinigan Falls
eP 15 42 39
PP 15 45 22
S 15 51 47
Victoria
eP 15 39 51
pP 15 40 20
S 15 46 32
sS 15 47 51

JUNE 18
U.S.C.G.S.
54N, 161E
Near east coast of Kamchatka
H = 15 58 38
Mag 6 1/2 - 6 3/4
Lillooet
iP 16 06 56 d
Ottawa
eP 16 09 48
Resolute
iP 16 06 30
Seven Falls
eP 16 09 53
Shawinigan Falls
eP 16 09 50
Victoria
eP 16 07 02

JUNE 18
Resolute
eP 17 59 54

JUNE 18
Lillooet
eP 18 00 18 d

JUNE 19
U.S.C.G.S.
6N, 82 1/2W
South of Panama
H = 01 37 51
Halifax
e(PPS) 01 52 10
eSS 01 54.7
Horseshoe Bay
P 01 47 28
Ottawa
eP 01 45 27
Resolute
eP 01 48 59 d
eS 01 58 04
S_cS 01 59.1
SSS 02 05.5
eL 02 05.8
Seven Falls
eP 01 45 50
Shawinigan Falls
eP 01 45 40
Victoria
P 01 47 25

JUNE 19
Resolute
eP 05 43 35

JUNE 19
Resolute
eP 14 15 21

JUNE 19
Resolute
eP 17 00 57

JUNE 19
Resolute
eP 17 36 26
e 17 37 35

JUNE 19
U.S.C.G.S.
27 1/2N, 111W
Gulf of California
H = 20 34 40
Halifax
e 20 45 32
eS 20 48 55
eSS 20 52.0
Horseshoe Bay
P 20 39 51
Ottawa
eP 20 41 18
Resolute
eP 20 43 18
iP 20 43 25
P_cP 20 44 49
eS 20 52 22
eL 20 54.0
Saskatoon
P 20 48 10
S 20 49 48
Shawinigan Falls
eP 20 41 44
Victoria
P 20 39 48
P_cP 20 41 28
S 20 45 10
sPP 20 42 50

JUNE 20
Resolute
eP 01 05 44

JUNE 20
Resolute
eP 04 09 52

JUNE 20
Resolute
eP 08 18 32
e 08 20 59
e 08 26.5
e 08 28.1
e 08 29.4

JUNE 20
Resolute
eP 14 27 35

JUNE 20
U.S.C.G.S.
32N, 40W
Atlantic Ocean
H = 16 42 25
Ottawa
eP 16 48 40
Resolute
eP 16 51 23 (c)
eS 16 58 36
SS 17 02.0
Seven Falls
eP 16 48 17

JUNE 21
Resolute
eP 03 08 21

JUNE 21
U.S.C.G.S.
3S, 146E
Bismarck Sea
H = 03 28 10
Resolute
SS 04 00 33
eL 04 09 32

JUNE 21
U.S.C.G.S.
4 1/2S, 151 1/2E
New Britain
H = 05 47 27
Resolute
eP 06 01 15
PP 06 05 42

JUNE 21
Resolute
eP 08 19 10

JUNE 21
Resolute
eP 13 50 15

JUNE 21
U.S.C.G.S.
0, 124E
Northern Celebes region
H = 14 13 23
Resolute
eP 14 27 21

JUNE 21
U.S.C.G.S.
21S, 67W
Southern Bolivia
H = 15 01 45
h = 200 km
Lillooet
eP 15 (13) (03) d
Ottawa
eP 15 12 17
Resolute
eP 15 14 59 c
e 15 17 10
Seven Falls
eP 15 12 28
Shawinigan Falls
eP 15 12 24 c

JUNE 21
Resolute
eP 16 16 01 c
iP 16 16 12
e 16 34.2
e 16 38.2

JUNE 21
Resolute
eP 22 20 50

JUNE 21
U.S.C.G.S.
11 1/2S, 167E
Santa Cruz Islands
H = 22 11 51
Resolute
eS 22 37.7
SS 22 45.2
G 22 54.6

JUNE 21
U.S.C.G.S.
29S, 178W
Kermadec Islands
H = 23 25 46
Resolute
eP' 23 44 27,5 c

JUNE 21
U.S.C.G.S.
Jujuy Province, Argentina
H = 23 30 05
Ottawa
eP 23 41 14 c
Seven Falls
eP 23 41 23
Shawinigan Falls
eP 23 41 18 c

JUNE 22
U.S.C.G.S.
4S, 81W
Near coast of Northern Peru
H = 03 22 51
Ottawa
eP 03 31 42 d
Resolute
eP 03 34 56 c
eP 03 34 56.5 d
Seven Falls
eP 03 32 01

DOMINION OBSERVATORIES

JUNE 22
Canadian Arctic
H = 05 00 47.0
Mag 2.8
Resolute
(P) 05 01 55.5
S_1 05 02 07
D = 500 km (?)

JUNE 22
Canadian Arctic
H = 05 17 57.6
Mag 1.3
Resolute
P_1 05 18 16
S_1 05 18 30
D = 115 km

JUNE 22
Canadian Arctic
H = 06 55 51.4
Mag 2.8
Resolute
P_1 06 56 10.5
S_1 06 56 25
D = 119 km

JUNE 22
U.S.C.G.S.
6S, 152 1/2E
New Britain region
H = 09 16 34
h = 100 km
Ottawa
eP' 09 35 25
Resolute
eP 09 30 23

JUNE 22
Canadian Arctic
H = 10 08 58.1
Mag 2.7
Resolute
(P) 10 10 00.5
S_1 10 11 04.0
D = 450 km (?)

JUNE 22
U.S.C.G.S.
54 1/2N, 159E
Kamchatka
H = 13 04 53
Ottawa
eP 13 16 09
Resolute
eP 13 12 48 (d)
P_cP 13 14 40
eS 13 19 18
eL 13 22.4
Shawinigan Falls
eP 13 16 07
Victoria
eP 13 13 25 d

JUNE 23
Resolute
e 03 39.8
iP 03 40 13 (c)

JUNE 23
U.S.C.G.S.
41 1/2N, 82E
Sinkiang Province, China
H = 10 44 55
Resolute
eP 10 55 30 (c)

JUNE 23
U.S.C.G.S.
39N, 119W
Western Nevada
H = 14 35 02
Mag 6 1/4
Alberni
P 14 37 45 d
S 14 40 45
Halifax
iP 14 42 46 c
eS 14 48 58
eSS 14 51 58
eG 14 54.5
Ottawa
eP 14 41 31
Resolute
eP 14 42 16 (c)
iP 14 42 16.5 d
PP 14 43 38
P_cP 14 44 35
eS 14 48 04
e 14 49 18
eL 14 52.4
e 14 54.6
Saskatoon
e 14 43 00
Seven Falls
eP 14 42 00 c
Shawinigan Falls
iP 14 41 48 c
Victoria
P 14 37 29.9 d
e 14 40 23
S 14 44 51

JUNE 23
U.S.C.G.S.
39 1/2N, 119W
Nevada aftershock
H = 15 03 48
Mag 4 1/2
Alberni
P 15 07 19
Ottawa
eP 15 11 07
Resolute
eP 15 11 47
eP 15 11 49
iP 15 11 54
e(G) 15 23 59
Shawinigan Falls
eP 15 11 26
Victoria
P 15 07 07

JUNE 23
Resolute
eP 17 27 47.5 c

JUNE 24
U.S.C.G.S.
54N, 160E
Near east coast of
Kamchatka
H = 04 24 22
Ottawa
eP 04 33 32
Resolute
eP 04 32 21

JUNE 24
U.S.C.G.S.
51N, 158 1/2E
Off south coast of
Kamchatka
H = 04 26 39
Resolute
eP 04 35 04 c
iP 04 35 17
eS 04 41 45
e(SS) 04 45 00

JUNE 24
Resolute
eP 07 26 17 c
e 07 (35.0)
e 07 46.3

JUNE 24
Resolute
eP 14 52 27 (d)

JUNE 24
Resolute
eP 16 14 (10)
e 16 (35.5)
e 16 (36.2)

JUNE 24
Canadian Arctic
H = 19 11 03.5
Mag 3.0
Resolute
(P) 19 12 03.5
i 19 13 21.5
S_1 19 13 40
D = 430 km (?)

JUNE 24
Resolute
eP 23 34 08

JUNE 25
Ottawa
eP 00 55 09
Resolute
iP 00 58 08.5 c
Shawinigan Falls
eP 00 55 27

JUNE 25
Resolute
eP 01 42 28
e 01 52.3
e 01 54.1

JUNE 25
U.S.C.G.S.
Hindu Kush
H = 03 12 28
Resolute
eP 03 23 38
Shawinigan Falls
eP 03 25 41

JUNE 25
Resolute
eP 06 50 28

JUNE 25
U.S.C.G.S.
62N, 27 1/2W
South of Iceland
H = 06 46 55
Alberni
L 07 14 26
Halifax
eP 06 52 (41)
e(PP) 06 53 (12)
eS 06 57 (25)
e 07 00 (07)
Lillooet
eP 06 (53) (-) c
Ottawa
eP 06 53 23 d
Resolute
eP 06 52 31
PP 06 53 01
eS 06 57 04
e(L) 06 58 28
Seven Falls
eP 06 52 52
Shawinigan Falls
eP 06 53 03 d

JUNE 25
U.S.C.G.S.
51 1/2N, 170W
Fox Islands,
Aleutian Islands
H = 09 50 48
Ottawa
eP 10 01 00
Resolute
eP 09 58 01
eS 10 04.1
eL 10 06 20

JUNE 25
Resolute
eP 11 50 35

DOMINION OBSERVATORIES

JUNE 25
U.S.C.G.S.
30 1/2N, 131E
Ryukyu Islands
H = 13 37 10
Resolute
iP 13 48 30.5 c
iP 13 48 41
eS 13 57.7
SS 14 02.3
eL 14 06.1

JUNE 26
U.S.C.G.S.
51 1/2N, 179E
Rat Islands,
Aleutian Islands
H = 00 05 50
Ottawa
eP 00 16 25
Resolute
iP 00 13 30 c
eP_cP 00 15 34
e 00 19 06
eS 00 19 22
e 00 21.4
eSSS 00 23.1
Seven Falls
eP 00 16 31
Shawinigan Falls
eP 00 16 29 d

JUNE 26
Resolute
eP 01 13 (54)
eP 01 13 56
e 01 22.2
e 01 23.5

JUNE 26
Ottawa
eP 03 57 01
Resolute
eP 03 59.2
e 04 09 32
Shawinigan Falls
eP 03 57 16

JUNE 26
U.S.C.G.S.
6S, 107W
About 1000 miles
southwest of Galapagos
Islands
H = 03 55 32
Ottawa
eP 04 05 27
Resolute
PP 04 07 47
e 04 17 55
e 04 20.5
SSS 04 23 26
eL 04 25 11
Shawinigan Falls
eP 04 05 42

JUNE 26
Ottawa
iP 05 15 59 c
Resolute
iP 05 13 01 c
i 05 14.0
e 05 17 33
e 05 20.1
Seven Falls
eP 05 15 59
Shawinigan Falls
eP 05 16 00

JUNE 26
U.S.C.G.S.
31N, 139E
South of Honshu, Japan
H = 08 35 51
h = 450 km
Resolute
iP 08 46 17.5 d
eP_cP 08 46 38
epP 08 47 47

JUNE 27
Resolute
eP 03 58 42 c
e 04 (32.5)

JUNE 27
Resolute
eP 09 51.9
eP 09 52 01

JUNE 27
Canadian Arctic
H = 10 53 27.2
h = 26 km
Mag 3.4
Resolute
eP_n 10 54 30.7
iP_1 10 54 41.7
iS_n 10 55 11.0
iS_1 10 55 29
D = 395 km

JUNE 27
U.S.C.G.S.
33S, 179W
South of Kermadec
Islands
H = 19 04 27
h = 100 km
Mag 6 3/4
Halifax
iP' 19 23 (32) c
i 19 24 (25)
iSKP 19 26 (40)
e 19 27 (37)
e 19 32 (29)
e 19 35 (04)
e(SS) 19 43 (13)
eP'P' 19 44 (15)
Horseshoe Bay
P 19 17 (47)
Ottawa
eP' 19 23 16
SKS 19 30 00
SKKS 19 31 36
S 19 32 42
SS 19 41 27

Resolute
epP 19 20 07
iP' 19 23 11.5 c
PP 19 24 39
SPP 19 25 30
SKS 19 25 50
SKKS 19 31.0
eS 19 32 28
iPKKP 19 33 20
SP 19 34 13
SPP 19 35 14
SS 19 41 05
SSS 19 41.7
P'P' 19 44 00
Seven Falls
eP' 19 23 13
i 19 23 24
SKS 19 30 13
SKKS 19 31 58
PPS 19 35 13
SS 19 40 43
SSS 19 44 58
Shawinigan Falls
eP' 19 23 22
PKKP 19 33 03
Victoria
iP 19 17 49
PP 19 22 33

JUNE 27
U.S.C.G.S.
42N, 80E
China, U.S.S.R. border
H = 19 11 23
Alberni
sS 19 29 00
Horseshoe Bay
P 19 24 06
Resolute
iP 19 21 59 c
(eS) 19 30.6
Victoria
iP 19 24 16
PKS 19 28 10
e 19 29 20
SKKS 19 35 18

JUNE 27
Resolute
eP 21 44.5
e 21 51.4

JUNE 28
Resolute
eP 00 15 39 c

JUNE 28
Resolute
eP 01 07 48
e 01 11 06
e 01 12 06

JUNE 28
Resolute
eP 01 13 19 (d)
e 01 16 19

JUNE 28
U.S.C.G.S.
29 1/2N, 141 1/2E
Bonin Islands region
H = 02 21 42
Resolute
eP 02 32 53

JUNE 28
U.S.C.G.S.
63 1/2N, 20W
Near south coast
of Iceland
H = 04 23 28
Resolute
eP 04 29 11
eS 04 33 51

JUNE 28
U.S.C.G.S.
Near west coast of
Greece
H = 06 02 15
Resolute
eP 06 12 25 d

JUNE 28
U.S.C.G.S.
Cayman Islands
H = 08 08 40
Resolute
eP 08 18 23
e 08 26 16
e 08 31.8
e 08 32.1
e 08 38.7

JUNE 28
Resolute
eP 09 02 42 (c)

JUNE 28
Resolute
eP 18 02 49

JUNE 28
Resolute
e 18 30 46

JUNE 28
U.S.C.G.S.
Gulf of California
H = 18 25 37
Halifax
eL 18 47.4
Resolute
eP 18 34 38
eS 18 41 20
eL 18 47.6
Victoria
P 18 30 47 d
G 18 37 56

DOMINION OBSERVATORIES

JUNE 28
U.S.C.G.S.
9 1/2S, 122 1/2E
Sawoe Sea
H = 19 43 22
Halifax
ePʹ 20 02 58 c
ePKS 20 06 34
eSKKS 20 12 26
ePS 20 16 36
Ottawa
ePʹ 20 02 48
Resolute
eP 19 58 02 d
iPʹ 20 01 59
iPP 20 02 25
SKS 20 08 31
SKKS 20 09 28
eS 20 10 04
PS 20 12.0
PPS 20 13.0
SS 20 18 00
Seven Falls
ePʹ 20 02 49
PKS 20 06 26
Shawinigan Falls
ePʹ 20 02 47
PKS 20 06 02
Victoria
Pʹ 20 02 04 d
S 20 12 17

JUNE 28
Resolute
eP 21 59 50

JUNE 29
U.S.C.G.S.
7S, 155 1/2E
Solomon Islands
H = 07 16 07
Mag 6 - 6 1/4
Halifax
ePKS 07 38 45
eSKKS 07 44 28
e(PPS) 07 50 26
Resolute
eP 07 30 04
SKS 07 40 44
PS 07 43 20
SS 07 49.0
PSPS 07 49.4

JUNE 29
Resolute
eP 09 28 48
eP 09 30 57
iP 09 31 13.5 c

JUNE 29
U.S.C.G.S.
6N, 126 1/2E
Near south coast of Mindanao, Philippine Islands
H = 13 19 47
h = 150 km
Resolute
eP 13 33 01.5 c
PP 13 36 50
PPP 13 39.7
Shawinigan Falls
iPʹ 13 38 36 c

JUNE 29
Resolute
eP 21 32 16 (c)
iP 21 32 16.3d

JUNE 29
Resolute
eP 22 13 07.5 c

JUNE 29
Resolute
eP 22 22 01

JUNE 30
Resolute
eP 02 18 08

JUNE 30
Canadian Arctic
H = 03 27 53.9
Mag 1.1
Resolute
iP_1 03 28 00.5
iS_1 03 28 04.0
D = 28.7 km

JUNE 30
Resolute
eP 06 08 14

JUNE 30
U.S.C.G.S.
34S, 179W
South of Kermadec Island
H = 10 23 17
Resolute
eP 10 42 09.5 c
eP 10 42 24
SKS 10 53.3

JUNE 30
Resolute
eP 11 39 07 (c)

JUNE 30
U.S.C.G.S.
30N, 131E
Ryukyu Islands
H = 13 22 45
Resolute
eP 13 34 07 (c)
eP 13 34 17.5
eS 13 43.3

JUNE 30
U.S.C.G.S.
8 1/2N, 71 1/2W
Northwestern Venezuela
H = 22 42 02
h = 60 km
Resolute
eP 22 53 02
(sS) 23 02.5
Shawinigan Falls
eP 22 49 21

JUNE 30
Resolute
eP 23 29 26 c

DOMINION OBSERVATORIES

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the second quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 8 at 19 18 22 U.T. Magnitude 1.6. Originated 215 km from Resolute, N.W.T.

APRIL 19 at 06 43 29 U.T. Magnitude 5.0. Originated in Yukon Territory, 1930 km from Resolute, N.W.T.

APRIL 19 at 07 29 18 U.T. Magnitude 2.9. Originated 425 km from Resolute, N.W.T.

APRIL 21 at 08 43 48 U.T. Magnitude 2.0. Originated 53 km from Resolute, N.W.T.

APRIL 26 at 07 26 15 U.T. Magnitude 2.9. Originated 460 km from Resolute, N.W.T. at a depth of about 15 km.

MAY 3 at 09 30 14 U.T. Magnitude 2.8. Originated 450 km from Resolute, N.W.T.

MAY 12 at 00 08 22 U.T. Magnitude 1.2. Originated 41 km from Resolute, N.W.T.

MAY 13 at 16 56 43 U.T. Magnitude 3.0. Originated 119 km from Resolute, N.W.T.

MAY 15 at 06 24 19 U.T. Magnitude 2.1. Originated 127 km from Resolute, N.W.T.

MAY 22 at 00 46 20 U.T. Magnitude 1.4. Originated 62 km from Resolute, N.W.T.

MAY 23 at 22 17 55 U.T. Magnitude 1.8. Originated 164 km from Resolute, N.W.T.

MAY 27 at 19 28 39 U.T. Magnitude 2.0. Originated 44.3 km from Resolute, N.W.T.

May 28 at 05 42 55 U.T. Magnitude 2.7. Originated 450 km from Resolute, N.W.T.

MAY 30 at 02 44 07 U.T. Magnitude 1.8. Originated 183 km from Resolute, N.W.T. at a depth of about 18 km.

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JUNE 22 at 05 00 47 U.T. Magnitude 2.8. Originated 500 km from Resolute, N.W.T.

JUNE 22 at 05 17 58 U.T. Magnitude 1.3. Originated 115 km from Resolute, N.W.T.

JUNE 22 at 06 55 51 U.T. Magnitude 2.8. Originated 119 km from Resolute, N.W.T.

JUNE 22 at 10 08 58 U.T. Magnitude 2.7. Originated 450 km from Resolute, N.W.T.

JUNE 24 at 19 11 04 U.T. Magnitude 3.0. Originated 430 km from Resolute, N.W.T.

JUNE 27 at 10 53 27 U.T. Magnitude 3.4. Originated 395 km from Resolute, N.W.T. at a depth of about 26 km.

JUNE 30 at 03 27 54 U.T. Magnitude 1.1. Originated 28.7 km from Resolute, N.W.T.

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the second quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

APRIL 13 at 21 20 19 U.T. Magnitude 3.4. Epicentre at 41°55'N; 73°16'W. Near Pine Mountain, Conn. Could be a large blast.

APRIL 16 at 16 36 25 U.T. Magnitude 3.5. Epicentre at 47°07'N; 70°20'W. About ten miles southeast of Bonsecours, Que.

MAY 14 at 14 23 40 U.T. Magnitude 2.5. Epicentre at 47°00'N; 70°19'W. About nine miles south of Bonsecours, Que.

MAY 21 at 09 38 51.3 U.T. Magnitude 3.9. Epicentre at 46°33'N; 76°27'W. About 30 miles northwest of Maniwaki, Que.

MAY 29 at 02 16 49 U.T. Magnitude 3.0. Epicentre at 46°32'N; 76°43'W. About 40 miles northwest of Maniwaki, Que.

SEISMOLOGICAL BULLETIN - 1959

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the second quarter of 1959. The times of observed phases are given at their respective chronological position in the text of this bulletin.

APRIL 4 at 02 04 58 U.T. Magnitude 2.2. Epicentre at 48°40'N; 123°42'W. Gulf Islands.

APRIL 4 at 13 29 23 U.T. Magnitude 2.7. Epicentre at 48°58'N; 121°54'W. East of Sumas.

APRIL 4 at 13 34 11 U.T. Magnitude 2.0. Epicentre at 48°50'N; 122°12'W. East of Bellingham.

APRIL 4 at 20 25 38 U.T. Magnitude 2.2. Epicentre at 48.7°N; 123.6°W. N.W. of Victoria.

APRIL 12 at 03 07 35 U.T. Magnitude 3.5. Epicentre West of Vancouver Island.

APRIL 14 at 21 55 50 U.T. Magnitude 2.9. Epicentre at 47.7°N; 121.8°W. Southeast of Seattle.

APRIL 18 at 14 16 20 U.T. Magnitude 2.2. Epicentre at 49°11'N; 123°53'W. Gabriola Island.

APRIL 20 at 00 27 22 U.T. Magnitude 2.1. Epicentre at 48°48'N; 123°10'W. Gulf Islands.

APRIL 20 at 01 55 33 U.T. Magnitude 2.0. Epicentre at 48°46'N; 123°21'W. Gulf Islands.

APRIL 22 at 07 14 44 U.T. Magnitude 2.3. Epicentre at 48°45'N; 123°15'W. Gulf Islands.

MAY 2 at 20 09 17 U.T. Magnitude 2.2. Epicentre at 48°57'N; 122°11'W. Southeast of Sumas.

MAY 2 at 20 35 48 U.T. Magnitude 2.4. Epicentre at 48°43'N; 123°23'W. Gulf Islands.

MAY 9 at 00 24 51 U.T. Magnitude 2.4. Epicentre at 47.5°N; 122.7°W. Southwest of Seattle.

MAY 10 at 01 05 32 U.T. Magnitude 3. Epicentre at 50.4°N; 115.1°W. Rocky Mountain Range, southeast of Banff.

DOMINION OBSERVATORIES

MAY 10 at 02 04 16 U.T. Magnitude 2.7. Epicentre at 48°46'N; 123°22'W. Gulf Islands.

MAY 11 at 20 53 46 U.T. Magnitude 1.3. Epicentre at 48°36'N; 123°02'W. Gulf Islands.

MAY 31 at 15 01 08 U.T. Magnitude 4.4. Epicentre at 51.7°N; 130.2°W. South of Queen Charlotte Islands.

MAY 31 at 16 14 45 U.T. Magnitude 3.6. Southwest of Queen Charlotte Islands.

MAY 31 at 16 34 46 U.T. Southwest of Queen Charlotte Islands.

JUNE 2 at 08 34 55 U.T. Magnitude 2.2. Epicentre at 48.7°N; 122.0°W. Northwest of Washington.

JUNE 5 at 22 37 34 U.T. Magnitude 1.3. Epicentre southeast of Victoria.

JUNE 6 at 00 31 33 U.T. Magnitude 2.3.

JUNE 12 at 08 21 03 U.T. Magnitude 3.1. Epicentre at 48.7°N; 127.2°W. West of Vancouver Island.

JUNE 15 at 23 18 37 U.T. Magnitude 2.1. Epicentre at 48.9°N; 124.1°W. Southern Vancouver Island.

JUNE 16 at 21 48 38 U.T. Magnitude 1.4. Epicentre at 48°34'N; 123°48'W. Southern Vancouver Island.

I.G.Y. MICROSEISMIC BULLETIN

APRIL - JUNE - 1959

NOTES

Three stations only have been read,

An inland station - Ottawa,
An Arctic station - Resolute, and
A Pacific station - Victoria.

The following instruments are used:

Ottawa - Benioff Z T_s = 1 sec. T_g = 75 sec.
Resolute - Columbia Z T_s = 10.2 sec. T_g = 20 sec.
Victoria - Benioff Z T_s = 1 sec. T_g = 75 sec.

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
April 1	0	3	0.8	3.4	1	0.55	6.4	3	0.9	5.2
	6	3	0.8	4.1	1	0.8	6.4	3	0.9	5.2
	12	3	1.0	3.5	2	1.3	7.5	2	1.4	5.3
	18	1	2.6	4.5	2	2.4	8.2	2	3.5	7.5
2	0	1	2.6	4.5	2	2.6	7.8	2	3.0	7.5
	6	1	1.8	4.0	2	1.4	7.7	2	2.2	7.2
	12	3	1.2	4.0	2	1.2	7.3	2	2.2	7.0
	18	3	0.9	3.9	3	0.7	7.0	3	1.4	6.0
3	0	3	1.1	3.9	3	0.7	7.0	3	1.0	5.1
	6	3	1.2	4.0	3	0.7	7.4	3	1.0	5.0
	12	3	1.5	3.7	3	0.6	7.0	3	0.9	5.0
	18	3	1.7	4.0	1	0.6	7.0	3	1.2	6.2
4	0	3	1.5	3.5	2	1.4	7.7	3	1.7	6.5
	6	3	1.0	3.5	2	1.2	7.7	3	1.5	6.8
	12	3	1.0	3.5	2	0.9	7.5	3	1.6	6.5
	18	3	1.3	4.5	1	0.7	7.3	3	1.4	6.5
5	0	3	1.3	4.5	1	0.7	6.9	3	0.9	5.5
	6	3	1.3	4.5	...			3	0.8	4.5
	12	3	1.3	4.5	2	1.1	7.0	3	2.1	6.5
	18	3	1.2	4.3	2	1.7	7.3	3	2.6	7.0
6	0	3	1.2	4.2	...			3	2.8	6.5
	6	3	1.1	4.0	1	0.9	7.0	3	2.4	6.5
	12	3	1.0	4.0	1	0.8	6.3	3	1.5	5.5
	18	3	1.0	4.0	1	0.6	6.5	3	1.4	5.5
7	0	1	1.1	4.1	1	0.6	6.3	3	1.1	5.5
	6	1	1.2	4.0	1	0.5	6.1	3	0.8	5.0
	12	1	1.2	4.0	1	0.5	6.0	3	0.6	5.0
	18	1	1.2	4.0	1	0.5	6.1	3	1.0	6.5
April 8	0	1	1.0	4.0	1	0.6	6.4	3	1.1	6.5
	6	3	0.9	4.0	1	0.6	6.7	3	1.3	7.0
	12	3	0.8	4.0	...			3	1.1	7.0
	18	3	0.8	4.0	1	1.0	6.3	2	0.8	5.5
9	0	3	0.8	4.0	1	0.9	6.5	3	0.6	5.0
	6	1	1.4	5.0	1	0.9	6.0	3	0.4	5.0
	12	1	1.4	5.0	2	1.1	6.5	3	0.6	5.0
	18	1	1.6	4.8	...			3	0.5	4.5

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
10	0	1	1.7	4.8	1	0.6	6.2	3	0.5	5.0
	6	1	1.4	5.0	1	0.5	6.0	3	0.4	4.8
	12	1	1.4	5.0	1	0.4	5.6	3	0.4	4.5
	18	1	1.8	5.5	...			3	0.4	4.5
11	0	1	1.8	5.5	1	0.3	5.6	3	0.4	3.5
	6	1	1.8	5.5	1	0.4	5.6	2	0.6	3.8
	12	3	0.9	5.0	1	0.4	5.7	2	0.5	4.0
	18	3	0.9	5.0	1	0.1	5.5	3	0.3	4.0
12	0	3	0.5	3.5	1	0.1	5.6	3	0.4	4.5
	6	3	0.5	3.5	1	0.1	5.6	3	0.3	4.0
	12	3	0.4	3.0	...			3	0.3	3.5
	18	...			...			3	0.2	3.5
13	0	3	0.5	3.5	1	0.2	5.4	3	0.3	3.5
	6	1	1.0	4.5	1	0.3	5.3	3	0.3	3.5
	12	1	1.3	4.4	1	0.3(5)	5.4	3	0.3	3.5
	18	1	1.3	4.5	1	0.5	5.6	3	0.3	4.0
14	0	1	1.3	4.5	1	0.7	6.0	3	0.4	4.0
	6	1	1.3	4.5	1	0.5	5.7	3	0.3	4.0
	12	1	1.0	4.5	1	0.4(5)	6.1	3	0.3	4.0
	18	3	0.6	4.0	1	0.4	5.8	3	0.3	4.0
15	0	3	0.6	4.0	1	0.4	6.1	3	0.4	4.0
	6	3	1.3	5.0	1	0.5	6.0	3	0.5	4.5
	12	3	1.7	5.8	1	0.6	6.3	2	0.6	4.5
	18	3	2.1	6.0	...			3	0.5	4.5
16	0	3	2.1	6.0	1	1.0	6.7	2	0.7	5.0
	6	1	3.3	6.8	1	1.0(5)	7.2	3	0.6	5.5
	12	1	9.2	7.9	2	1.4	7.4	3	0.8	7.5
	18	1	5.8	7.5	2	0.7	7.2	2	1.1	7.0
17	0	1	6.2	7.2	1	0.8	7.0	2	1.1	6.5
	6	1	5.1	7.2	1	0.6	7.6	3	0.7	6.0
	12	1	3.3	6.0	1	0.7	7.2	2	1.0	6.0
	18	1	3.6	7.0	...			3	0.6	5.5
18	0	1	3.6	7.0	...			3	0.7	5.5
	6	1	4.8	7.0	...			3	0.6	5.5
	12	1	3.0	7.1	...			3	0.6	5.5
	18	3	3.2	7.0	1	0.6	6.6	3	0.4	4.5

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
April 19	0	3	2.2	7.0	1	0.7	6.4	3	0.3	4.0
	6	3	2.0	7.0	1	0.6	6.3	3	0.4	4.5
	12	3	1.4	7.0	1	0.4	6.7	3	0.4	4.5
	18	3	1.2	6.0	...			3	0.4	5.0
20	0	3	0.9	6.0	1	0.3	6.0	3	0.3	5.0
	6	3	0.9	6.0	...			3	0.4	5.0
	12	3	0.9	6.0	3	0.2	5.8	3	0.4	5.0
	18	3	0.6	3.0	3	0.1	6.7	3	0.4	5.0
21	0	1	1.1	3.6	3	0.1	7.0	3	0.4	5.0
	6	1	2.2	3.8	3	0.3	5.0	3	0.5	5.0
	12	1	1.5	3.8	3	0.3	5.7	3	0.5	5.0
	18	1	1.3	3.8	1	0.3	6.0	...		
22	0	3	0.9	3.6	1	0.4	6.0	...		
	6	3	0.8	3.8	1	0.3	5.5	...		
	12	3	0.8	4.0	1	0.1	5.6	...		
	18	3	1.2	5.0	1	0.2	5.6	3	0.4	4.5
23	0	3	0.7	4.2	1	0.2	5.5	3	0.4	4.5
	6	3	0.7	4.2	1	0.2	6.0	3	0.4	4.5
	12	3	0.8	4.2	1	0.2	5.3	3	0.4	4.5
	18	3	0.8	4.0	1	0.5	6.0	3	0.3	4.5
24	0	3	0.8	4.0	1	0.4	6.0	3	0.4	4.5
	6	3	0.8	4.0	1	0.4	6.0	3	0.2	4.5
	12	3	0.9	5.0	1	0.3	6.0	3	0.3	4.5
	18	3	1.0	5.0	1	0.4	6.1	3	0.4	4.0
25	0	3	0.8	4.0	1	0.6	6.3	3	0.4	5.0
	6	3	0.8	4.0	1	0.7	6.0	3	0.3	5.0
	12	3	0.9	5.0	1	0.5	6.1	3	0.3	5.0
	18	3	0.9	5.0	1	0.5	5.9	3	0.4	5.0
26	0	3	0.9	5.0	1	0.6	6.5	3	0.3	5.0
	6	3	0.9	5.0	...			3	0.3	5.0
	12	3	0.9	5.0	1	0.3	5.8	3	0.3	5.0
	18	3	0.9	5.0	...			...		
27	0	3	0.9	5.0	...			3	0.4	5.0
	6	3	0.7	5.0	1	0.2	5.8	3	0.4	5.5
	12	3	0.5	4.0	...			3	0.4	5.0
	18	1	0.6	3.0	1	0.1	5.8	2	0.6	4.0
28	0	1	0.7	3.2	1	0.1	5.7	2	0.6	4.0
	6	1	2.6	3.8	1	0.1	5.2	2	0.6	4.5
	12	...			...			...		
	18	1	2.1	4.0	...			3	0.5	5.0
29	0	1	1.7	4.0	1	0.2	5.0	2	0.7	5.0
	6	1	1.5	4.2	1	0.1(5)	5.2	2	0.9	5.0
	12	1	1.3	4.3	1	0.2	5.6	2	1.0	5.0
	18	3	1.2	4.0	1	0.2	5.0	2	0.9	4.5

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
April 30	0	3	1.2	4.0	1	0.3	5.6	2	1.0	4.5
	6	1	1.2	4.0	1	0.2	5.7	2	0.9	4.5
	12	1	1.2	4.0	1	0.2	5.0	2	0.9	4.5
	18	1	1.2	4.0	1	0.2	5.3	2	0.9	4.5
May 1	0	1	1.2	4.0	1	0.3	6.2	2	2.2	5.5
	6	3	1.2	4.0	1	0.5	6.0	2	2.0	5.5
	12	3	0.8	3.8	1	0.3	5.8	2	1.5	5.5
	18	3	0.8	3.8	1	0.1	5.8	2	0.8	4.0
2	0	3	0.7	3.8	1	0.1	5.9	2	0.8	4.0
	6	3	0.7	4.0	1	0.1	5.9	2	0.7	4.0
	12	3	0.7	4.0	1	0.15	5.2	2	0.6	4.0
	18	3	0.5	4.0	1	0.2	5.0	3	0.4	4.0
3	0	3	0.5	4.0	1	0.2	4.9	3	0.3	4.0
	6	3	0.5	4.0	...			3	0.3	4.0
	12	3	0.4	3.8	1	0.1	5.3	3	0.3	4.0
	18	3	0.4	3.8	1	0.2	4.9	3	0.3	4.0
4	0	3	0.4	3.8	1	0.2	5.0	3	0.3	4.0
	6	3	0.4	3.8	1	0.1	5.5	3	0.3	4.0
	12	3	0.5	4.0	...			...		
	18	3	0.5	4.0	1	0.15	5.2	3	0.3	4.0
5	0	3	0.5	4.0	1	0.1	5.6	3	0.3	4.0
	6	3	0.5	4.0	1	0.15	5.3	3	0.4	4.0
	12	3	0.5	4.0	1	0.1	5.9	3	0.3	4.0
	18	3	0.5	4.0	1	0.2	4.9	3	0.3	4.0
6	0	3	0.5	4.0	1	0.1	5.9	3	0.3	4.5
	6	3	0.5	4.0	1	0.1	5.5	3	0.3	4.5
	12	3	0.5	4.0	1	0.1	6.7	3	0.3	4.5
	18	3	0.5	4.0	1	0.2	6.0	3	0.3	4.5
7	0	3	0.5	4.0	1	0.3	6.0	3	0.3	4.5
	6	3	0.5	4.0	1	0.3	5.9	3	0.4	5.0
	12	3	0.5	4.0	...			3	0.4	5.0
	18	3	0.5	4.0	1	0.3	5.8	3	0.6	5.5
8	0	3	0.5	4.0	1	0.3	5.9	3	0.6	5.5
	6	3	0.5	4.0	1	0.3	6.8	3	0.5	5.0
	12	3	0.5	4.0	...			...		
	18	3	0.3	4.0	1	0.2	6.5	...		
9	0	3	0.5	4.0	1	0.2	6.2	...		
	6	3	0.5	4.0	1	0.2	6.2	...		
	12	3	0.5	4.0	1	0.2	6.9	...		
	18	3	0.6	4.0	...			3	0.5	4.0
10	0	3	0.6	4.0	1	0.4	6.6	2	0.7	4.0
	6	3	0.8	4.0	1	0.5	6.4	2	0.6	4.5
	12	3	1.0	4.0	1	0.4	6.7	3	0.5	4.5
	18	3	1.3	5.0	1	0.5	7.2	3	0.6	4.5

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
May 11	0		1.3	5.0	1	0.5	6.0	3	0.6	5.0
	6		1.4	5.0	1	0.4	6.1	2	0.8	5.0
	12		1.4	5.0	1	0.3	6.0	2	0.8	5.0
	18		1.0	5.0	1	0.3	5.7	2	0.8	5.0
12	0		0.9	5.0	1	0.25	6.4	3	0.6	5.0
	6	...			...			...		
	12	3	0.5	3.6	...			...		
	18	3	0.5	3.6	1	0.1	6.2	3	0.4	5.0
13	0	4	0.4	3.6	...			...		
	6	3	0.4	3.5	1	0.2	6.1	3	0.3	4.5
	12	3	0.4	3.5	1	0.2	6.0	3	0.3	4.5
	18	3	0.3	3.5	...			3	0.3	4.5
14	0	3	0.4	3.0	1	0.1	5.9	3	0.4	4.5
	6	3	0.5	3.3	1	0.1	5.8	3	0.4	4.5
	12	3	0.4	3.3	...			3	0.4	4.5
	18	3	0.4	3.3	1	0.1	6.3	3	0.4	4.5
15	0	3	0.8	4.0	1	0.2	6.1	3	0.3	5.0
	6	3	0.8	4.0	1	0.2	6.0	3	0.7	5.5
	12	3	0.8	4.0	1	0.25	6.2	3	0.6	5.5
	18	3	0.8	4.0	1	0.3	6.0	2	0.8	5.0
16	0	3	0.8	4.0	1	0.3	6.0	3	0.7	5.0
	6	3	0.8	4.0	1	0.1	6.2	3	0.4	4.5
	12	3	0.8	4.0	1	0.2	6.2	3	0.4	4.5
	18	3	0.7	4.0	1	0.1	6.3	3	0.4	4.5
17	0	3	0.7	4.0	1	0.1	5.7	2	0.6	4.5
	6	3	0.8	4.9	1	0.2	5.5	3	0.4	4.5
	12	3	0.9	5.0	1	0.3	5.8	3	0.5	4.5
	18	3	1.3	5.0	1	0.4	5.8	3	0.5	4.5
18	0	3	1.3	5.0	1	0.5	5.6	2	0.7	5.0
	6	1	1.6	5.0	1	0.7	5.9	2	0.8	5.0
	12	1	1.4	5.0	1	0.6	5.8	2	0.7	5.0
	18	1	1.2	5.0	1	0.3	5.8	2	0.8	5.5
19	0	3	0.7	5.0	1	0.1	6.0	2	0.8	5.5
	6	3	0.7	5.0	1	0.3	5.8	3	0.7	5.5
	12	3	0.7	5.0	1	0.1	5.6	3	0.5	4.5
	18	3	0.7	5.0	1	0.2	5.6	3	0.4	4.5
20	0	3	0.4	5.0	1	0.1	5.6	3	0.4	4.5
	6	3	0.2	2.6	1	0.2	5.4	3	0.4	4.5
	12	3	0.2	2.6	...			3	0.4	4.5
	18	3	0.3	2.8	1	0.1	6.2	3	0.4	4.0
21	0	3	0.3	2.8	1	0.15	5.2	3	0.3	4.0
	6	3	0.4	3.0	1	0.15	5.3	3	0.3	4.0
	12	3	0.4	3.0	...			3	0.3	4.0
	18	3	0.6	4.0	1	0.2	4.8	...		

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
May 22	0	3	0.6	4.0	1	0.2	5.0	...		
	6	3	0.6	4.0	1	0.1	5.4	...		
	12	3	0.6	4.0	1	0.1	5.4	...		
	18	...			1	0.15	5.2	3	0.4	4.0
23	0	...			1	0.1	5.5	3	0.4	4.0
	6	3	0.6	4.0	1	0.1	5.3	3	0.4	4.0
	12	...			1	0.3	4.8	3	0.4	4.0
	18	1	0.7	4.0	1	0.3	4.4	3	0.3	4.0
24	0	1	1.0	4.0	1	0.3	4.8	3	0.4	4.0
	6	1	1.0	4.0	1	0.3	5.2	3	0.4	3.8
	12	1	1.2	4.0	1	0.3	5.1	2	0.6	3.9
	18	1	1.2	4.0	1	0.3	5.2	2	0.6	3.9
25	0	3	1.2	4.0	1	0.4	5.5	2	0.6	4.0
	6	3	1.2	4.0	1	0.3	5.8	2	0.6	4.0
	12	3	1.2	4.0	1	0.3	5.9	2	0.6	4.0
	18	1	0.8	4.0	1	0.3	5.9	3	0.5	3.5
26	0	1	0.7	4.0	1	0.3	5.8	0.0	-	-
	6	1	0.6	4.0	...			0.0	-	-
	12	3	0.5	4.0	1	0.2	5.6	0.0	-	-
	18	3	0.3	4.0	1	0.1	5.7	0.0	-	-
27	0	3	0.3	3.7	1	0.1	5.4	0.0	-	-
	6	3	0.4	3.7	1	0.1	5.6	0.0	-	-
	12	3	0.4	3.7	1	0.1	5.3	0.0	-	-
	18	3	0.4	3.5	1	0.1	5.5	0.0	-	-
28	0	3	0.3	3.5	1	0.1	5.9	0.0	-	-
	6	3	0.3	3.5	1	0.15	5.2	0.0	-	-
	12	3	0.3	3.5	1	0.15	5.1	0.0	-	-
	18	3	0.4	4.0	1	0.15	5.2	0.0	-	-
29	0	1	0.9	4.6	1	0.45	5.2	0.0	-	-
	6	1	1.0	4.8	1	0.5	5.8	0.0	-	-
	12	...			...			0.0	-	-
	18	3	0.9	6.0	1	0.4	5.8	0.0	-	-
30	0	3	1.2	6.0	1	0.3	5.9	0.0	-	-
	6	3	1.2	6.0	1	0.3	5.9	0.0	-	-
	12	3	1.2	6.0	1	0.1	5.8	0.0	-	-
	18	3	1.1	6.0	1	0.2	4.8	0.0	-	-
May 31	0	3	0.5	6.0	1	0.1	5.7	0.0	-	-
	6	3	0.2	3.5	...			0.0	-	-
	12	3	0.2	3.5	...			0.0	-	-
	18	3	0.2	3.4	...			0.0	-	-
June 1	0	3	0.3	3.0	1	0.2	4.8	0.0	-	-
	6	3	0.3	3.0	1	0.15	5.3	0.0	-	-
	12	3	0.2	3.0	1	0.1	5.7	0.0	-	-
	18	3	0.2	3.0	...			...		

DOMINION OBSERVATORIES

DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
June	2	0	3	0.2	3.0	1	0.2	4.6	0.0	-	-
		6	3	0.2	3.0	...			0.0	-	-
		12	3	0.2	4.0	1	0.1	5.8	0.0	-	-
		18	3	0.3	4.0	1	0.2	4.9	0.0	-	-
	3	0	3	0.3	3.4	1	0.1	5.6	0.0	-	-
		6	3	0.3	3.4	...			3	0.2	2.3
		12	3	0.3	3.5	1	0.2	5.3	0.0	-	-
		18	1	0.8	3.4	1	0.4	6.1	0.0	-	-
	4	0	1	0.6	3.5	1	0.4	6.0	3	0.2	2.5
		6	1	0.6	3.5	1	0.3	5.8	0.0	-	-
		12	1	0.6	3.5	1	0.3	5.8	3	0.2	2.2
		18	1	0.5	4.0	1	0.3	5.5	3	0.2	2.2
	5	0	1	0.5	4.0	1	0.2	5.2	3	0.2	2.1
		6	1	0.6	4.0	1	0.3	5.8	3	0.2	1.9
		12	1	0.5	4.0	1	0.3	5.6	3	0.2	2.1
		18	1	0.5	4.0	1	0.1	5.4	3	0.3	2.5
	6	0	1	0.5	4.0	1	0.2	5.8	3	0.3	2.5
		6	1	0.5	3.7	1	0.3	5.8	3	0.3	2.4
		12	1	0.5	3.7	...			3	0.3	2.6
		18	1	0.6	4.0	1	0.1	5.9	3	0.3	2.6
	7	0	1	0.6	4.0	1	0.3	5.9	3	0.2	2.6
		6	1	0.6	4.0	...			0.0	-	-
		12	1	0.6	4.0	1	0.2	5.7	0.0	-	-
		18	1	0.5	4.0	1	0.3	5.4	0.0	-	-
	8	0	1	0.5	4.0	1	0.2	5.8	0.0	-	-
		6	1	0.5	4.0	1	0.2	5.6	3	0.2	1.7
		12	1	0.5	4.0	1	0.1	5.9	3	0.2	1.7
		18	...			1	0.3	6.1	3	0.2	2.3
	9	0	3	0.5	4.0	1	0.5	6.5	...		
		6	3	0.5	4.5	1	0.5	6.2	2	0.4	2.8
		12	3	0.6	4.5	1	0.4	6.1	3	0.4	3.0
		18	3	0.6	4.0	1	0.3	5.9	3	0.2	2.5
	10	0	3	0.5	4.0	...			3	0.6	2.5
		6	3	0.5	4.0	1	0.2	6.0	3	0.5	2.6
		12	3	0.5	4.0	1	0.1	6.3	0.0	-	-
		18	3	0.3	3.5	1	0.1	5.8	3	0.5	2.5
	11	0	3	0.3	3.5	1	0.1	5.9	0.0	-	-
		6	3	0.5	3.5	1	0.1	6.7	0.0	-	-
		12	3	0.5	3.5	1	0.1	5.5	3	0.6	2.0
		18	1	0.8	4.0	1	0.3	4.3	0.0		
	12	0	1	0.8	4.0	1	0.2	5.4	0.0		
		6	1	0.8	4.0	1	0.3	5.4	0.0		
		12	1	0.8	4.0	1	0.3	5.5	0.0		
		18	1	0.8	4.0	1	0.2	5.4	0.0		

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DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
June	13	0	1	0.7	4.0	1	0.1	5.8	0.0		
		6	1	0.7	4.0	1	0.1	5.3	0.0		
		12	1	0.7	4.0	1	0.1	6.0	0.0		
		18	1	0.7	4.0	1	0.1	5.6	0.0		
	14	0	1	0.8	4.0	1	0.1	5.6	0.0		
		6	1	0.8	4.0	1	0.3	5.5	0.0		
		12	1	1.3	3.4	1	0.5	5.9	0.0		
		18	1	1.5	3.4	1	0.5	5.8	0.0		
	15	0	1	1.5	3.4	...			0.0		
		6	1	2.6	4.3	1	0.35	5.3	0.0		
		12	1	2.2	3.8	3	0.3	5.9	0.0		
		18	1	2.3	4.0	1	0.3	5.5	0.0		
	16	0	1	2.2	3.9	1	0.3	5.9	0.0		
		6	1	1.7	4.0	1	0.2	5.5	0.0		
		12	1	1.3	4.0	1	0.3	5.2	0.0		
		18	1	1.3	4.0	1	0.1	5.3	0.0		
	17	0	1	1.3	4.0	1	0.1	5.6	0.0		
		6	1	1.3	4.0	1	0.15	5.1	0.0		
		12	1	1.5	3.6	1	0.2	5.0	0.0		
		18	1	2.0	3.5	1	0.2	4.9	0.0		
	18	0	1	2.3	4.0	1	0.2	4.5	0.0		
		6	1	2.3	4.0	1	0.15	5.1	0.0		
		12	1	2.3	4.0	1	0.15	5.3	0.0		
		18	...			...			...		
	19	0	...			1	0.2	4.9	0.0		
		6	...			3	0.1	5.8	0.0		
		12	...			1	0.15	5.2	0.0		
		18	1	1.7	4.0	1	0.1	5.4	0.0		
	20	0	1	1.7	4.0	1	0.3	4.6	0.0		
		6	1	1.5	3.9	1	0.3	4.7	0.0		
		12	1	1.5	3.9	1	0.1	5.6	0.0		
		18	1	1.7	3.9	1	0.2	5.7	0.0		
	21	0	1	1.5	3.9	1	0.1	5.5	0.0		
		6	1	1.5	3.9	1	0.1	5.8	0.0		
		12	1	1.7	5.0	1	0.1	5.6	0.0		
		18	1	2.2	5.0	...			0.0		
	22	0	1	2.2	5.0	1	0.3	5.2	0.0		
		6	1	1.7	5.0	1	0.1	5.5	0.0		
		12	1	1.7	5.0	1	0.2	5.1	0.0		
		18	1	1.4	4.8	1	0.1	5.5	0.0		
	23	0	1	1.4	4.8	1	0.2	4.9	0.0		
		6	1	1.3	4.6	1	0.2	4.8	0.0		
		12	1	1.3	4.5	1	0.2	4.9	0.0		
		18	1	1.2	4.0	1	0.2	4.9	0.0		

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
June 24	0	1	0.8	4.0	1	0.15	5.1	0.0		
	6	1	0.6	4.0	1	0.1	5.6	0.0		
	12	1	0.6	4.0	1	0.1	6.0	0.0		
	18	1	0.6	4.0	1	0.1	6.0	0.0		
25	0	1	0.6	4.0	1	0.1	5.8	0.0		
	6	1	0.7	4.0	1	0.15	5.3	0.0		
	12	1	0.9	4.0	1	0.1	5.4	0.0		
	18	1	0.6	4.0	...			0.0		
26	0	1	0.6	4.0	...			0.0		
	6	1	0.6	4.0	...			0.0		
	12	1	0.6	4.0	...			0.0		
	18	1	0.6	4.0	...			0.0		
27	0	1	0.6	4.0	1	0.1	5.6	0.0		
	6	1	0.6	4.0	1	0.1	6.2	0.0		
	12	1	0.6	4.0	1	0.1	6.1	0.0		
	18	...			1	0.1	6.4	0.0		
28	0	...			1	0.1	6.0	0.0		
	6	...			1	0.1	6.7	0.0		
	12	...			1	0.1	5.8	0.0		
	18	...			...			0.0		
29	0	...			...			...		
	6	...			...			0.0		
	12	...			...			0.0		
	18	...			...			0.0		
30	0	...			...			0.0		
	6	...			...			0.0		
	12	...			...			0.0		
	18	...			...			0.0		
	24	...			1	0.1	4.2	0.0		

SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

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July - September
1959

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

SEISMOLOGICAL BULLETIN

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NOTES

1. I.G.Y. microseismic data may be found starting on page 223.

2. Earthquakes in the Canadian Arctic may be found on page 218.

3. Earthquakes in Eastern Canada may be found on page 219.

4. Earthquakes in Western Canada may be found on pages 220 to 222.

DOMINION OBSERVATORIES

JULY 1
U.S.C.G.S.
28N, 139 1/2E
Bonin Islands region
H = 02 27 46
h = 550 km
Mag 6
Alberni
L 02 46 57
Halifax
eSKS 02 50 (44)
eSP 02 53 (41)
epS 02 54 (29)
Resolute
iP 02 38 16 c
pP 02 40 02
PP 02 41 05
iS 02 46 50
SP 02 47 24
sS 02 50 04
Victoria
e(SKKS) 02 38 30
e(PS) 02 40 18

JULY 1
U.S.C.G.S.
16 1/2S, 69 1/2W
Peru-Bolivia border
H = 10 32 29
h = 200 km
Resolute
eP 10 45 27
SKKS 10 55 44
eS 10 56 22
PS 10 57 10

JULY 2
U.S.C.G.S.
51N, 179E
Rat Islands,
Aleutian Islands
H = 05 03 50
Resolute
e(P) 05 11 32
e 05 28.6
e 05 34.6

JULY 2
U.S.C.G.S.
20S, 178 1/2W
Fiji Islands
H = 11 27 45
h = 650 km
Resolute
eP' 11 45 04

JULY 2
U.S.C.G.S.
20S, 178 1/2W
Fiji Islands
H = 11 34 20
h = 650 km
Resolute
eP' 11 59 39
sSS 12 10.1

JULY 2
Resolute
e(P) 18 45 16.5

JULY 2
Canadian Arctic
H = 19 42 44.7
h = 19 km
Mag 2.8
Resolute
P_n 19 43 23
P_1 19 43 28.2
S_n 19 43 51.8
i 19 43 56
S 19 44 01.5
D = 270 km

JULY 2
Canadian Arctic
H = 19 48 00.2
h = 19 km
Mag 2.8
Resolute
P_n 19 48 38.5
P_1 19 48 43.8
S_n 19 49 07.5
i 19 49 11.5
S_1 19 49 17.1
D = 270 km

JULY 2
Resolute
e(P) 20 06 45
e 20 09 46

JULY 2
Canadian Arctic
H = 23 07 57.2
h = 19 km
Mag 2.5
Resolute
P_n 23 08 35.5
P_1 23 08 41.0
S_n 23 09 04.5
i 23 09 09.5
S_1 23 09 14.2
D = 270 km

JULY 3
U.S.C.G.S.
58 1/2N, 152W
Kodiak Island region
H = 05 21 13
Halifax
eSS 05 41 (43)
Resolute
iP 05 26 51.5 d
eS 05 31 20
e 05 35 25
Seven Falls
eP 05 29 47
Shawinigan Falls
eP 05 29 42 d

JULY 3
U.S.C.G.S.
16S, 173E
New Hebrides
Islands region
H = 17 55 10
Mag 6 1/2
Halifax
epPP 18 16 (54)
e 18 17 (52)
epPPP 18 19 (42)
i 18 24 (58)
isSS 18 33 50
eL 18 50.4
Lillooet
P 18 09 15
e 18 09 59
Resolute
eP 18 09 (24)
pP 18 10 09
PP 18 13 45
eS 18 20 50
SSP 18 23.8
sSS 18 29.6
Seven Falls
eP' 18 14 02
PP 18 16 09
S 18 23 09
PS 18 25 46
SS 18 32 13
Shawinigan Falls
eP' 18 14 06
Victoria
P- 18 08 50

JULY 3
U.S.C.G.S.
16S, 173E
New Hebrides
Islands region
H = 17 55 53
Mag 6 1/2
Seven Falls
eP' 18 14 43

JULY 4
U.S.C.G.S.
Near coast of Nicaragua
H = 03 04 05
Lillooet
eP 03 12 50
Resolute
i(P) 03 14 31.5 c
i(P) 03 14 40
e 03 32.3
Seven Falls
eP 03 11 25
Shawinigan Falls
eP 03 11 16

JULY 4
U.S.C.G.S.
24 1/2S, 177W
Tonga Islands region
H = 04 54 14
h = 100 km
Resolute
eS 05 21.0
(PS) 05 23.2

JULY 4
47°54'N, 123°05'W
Olympic Mountains
H = 05 27 22
Mag 3.0
Alberni
P 05 27 55.4
D = 210 km

Lillooet
iP 05 28 09.2
D = 200 km
Victoria
P 05 27 37.4
S 05 27 48.2
L 05 28 49.6
D = 89 km

JULY 4
Resolute
e(P) 07 46 13
e 07 50 28
e 07 52.0

JULY 4
52N, 131W
Queen Charlotte Island
H = 08 21.8
Mag 4.1
Alberni
P 08 23 03.7
S 08 24 13.0
D = 554 km
Victoria
P 08 23 29.9
S 08 25 57.2
D = 770 km

JULY 4
Resolute
e(P) 08 33 30 d

JULY 4
Resolute
e(P) 15 48 19 c

JULY 4
Resolute
e(P) 22 12 37

DOMINION OBSERVATORIES

JULY 5
U.S.C.G.S.
52 1/2N, 159E
Kamchatka
H = 05 33 07
Resolute
eP 05 41 16 c

JULY 5
Resolute
e(P) 05 44 54
e 05 45 10.5

JULY 5
Resolute
e(P) 05 51 01

JULY 5
U.S.C.G.S.
6S, 146 1/2E
Near northeast coast of New Guinea
H = 14 05 42
Resolute
SS 14 38.8

JULY 5
U.S.C.G.S.
8S, 74W
Peru-Brazil border
H = 15 53 37
h = 200 km
Resolute
eP 16 05 (48)

JULY 6
U.S.C.G.S.
Guatemala-Honduras border
H = 08 51 27
Resolute
e(P) 09 01 39

JULY 6
U.S.C.G.S.
26 1/2S, 61W
Chaco Province, Argentina
H = 09 10 17
h = 600 km
Mag 6 3/4
Alberni
P 09 22 36
Halifax
iP 09 20 (44) d
ipP 09 22 (51) c
iS 09 29 09
iSP 09 29 51
esS 09 23 01
Horseshoe Bay
iP 09 22 (21) d
e 09 24 (34)
Ottawa
iP 09 20 52 d
pP 09 22 58
S 09 29 30
sPS 09 33 18
Resolute
eP 09 23 19 c
iP 09 23 19.5 d
pP 09 25 35
PP 09 27 40
(SKS) 09 32 57
S 09 34 13
SP 09 35 46
sS 09 38 20
SS 09 41.5
Seven Falls
iP 09 20 58 d
pP 09 23 07
S 09 29 42
sPS 09 33 34
SS 09 34 41
Shawinigan Falls
iP 09 20 56 d
pP 09 23 04
PP 09 23 51
S 09 29 38
Victoria
iP 09 22 31
i 09 24 48

JULY 6
U.S.C.G.S.
26 1/2S, 61 1/2W
Chaco Province, Argentina
H = 09 23 21
h = 600 km
Mag 6 3/4 - 7
Halifax
iP 09 33 (53) c
ipP 09 35 (59)
iS 09 41 (58)
iSP 09 42 (36)
isS 09 45 (36)
Horseshoe Bay
eP 09 35 (--)
PP 09 37 (--)
Lillooet
iP 09 37 52
PP 09 40 10
Ottawa
iP 09 34 01 c
pP 09 36 08
S 09 42 39
sPS 09 46 26
Resolute
eP 09 36 29 c
isP 09 39 34
pPP 09 42 42
(SKS) 09 46 09
iS 09 47 21
SP 09 49 00
iPKKP 09 52 20
isSP 09 52 43
(SS) 09 54 44
sSS 09 58 15
G 10 06.0
Seven Falls
iP 09 34 07 c
pP 09 36 14
S 09 42 51
SS 09 47 48
Shawinigan Falls
iP 09 34 05 c
pP 09 36 12
S 09 42 47
Victoria
iP 09 37 41
e 09 38 07
iPP 09 37 52

JULY 6
Lillooet
iP 09 51 03
e 09 53 18

JULY 6
U.S.C.G.S.
Samoa Islands region
H = 15 10 15
Lillooet
eP 15 34 59
Resolute
e 15 33.2
e 15 35.8

JULY 6
U.S.C.G.S.
7N, 73W
Colombia
H = 18 03 33
h = 200 km
Resolute
e(P) 18 14 22 (c)

JULY 6
Resolute
e(P) 21 01 46.8 c
i(P) 21 01 47 d

JULY 7
Resolute
i(P) 02 51 37.5 d

JULY 7
U.S.C.G.S.
21 1/2S, 66 1/2W
Bolivia
H = 05 42 45
h = 150 km
Seven Falls
iP 05 53 40 c
Shawinigan Falls
eP 05 53 37

JULY 7
U.S.C.G.S.
44N, 148E
Kurile Islands
H = 07 26 58
Resolute
e(P) 07 34 28
e 07 35 32

JULY 7
Resolute
e(P) 12 29 59 c

JULY 7
U.S.C.G.S.
21 1/2S, 67W
Bolivia
H = 13 29 59
h = 200 km
Ottawa
eP 13 40 36 d
Seven Falls
iP 13 40 46 c
Shawinigan Falls
eP 13 40 43

JULY 7
U.S.C.G.S.
40N, 143 1/2E
Off east coast of Honshu, Japan
H = 14 40 55
Resolute
eP 14 50 57 c

JULY 7
Resolute
e(P) 17 09 28 c

JULY 7
Resolute
eP 21 27 31.5

JULY 8
U.S.C.G.S.
71 1/2N, 19W
Near east coast of Greenland
H = 02 04 00
Resolute
eP 02 08 45 d
eS 02 12 39
Shawinigan Falls
eP 02 10 53

JULY 8
U.S.C.G.S.
44N, 147 1/2E
Kurile Islands
H = 04 00 37
h = 100 km
Ottawa
iP 04 12 53 d
Resolute
iP 04 09 57 c
(P_cP) 04 11 07
sS 04 18.0
Seven Falls
eP 04 12 53
Shawinigan Falls
eP 04 12 51

JULY 8
Resolute
iP 08 33 17 c
e 08 33 42

JULY 8
Resolute
eP 16 47 33

DOMINION OBSERVATORIES

JULY 8
47.9N, 123.6W
Olympic Mountains
H = 17 27 38
Mag 2.2
Alberni
P 17 28 06.4
S 17 28 28.8
D = 178 km
Victoria
P 17 27 49.6
S 17 27 58.4
D = 72 km

JULY 9
U.S.C.G.S.
20S, 72W
Off coast of Peru
H = 02 32 40
Ottawa
eP 02 43 22
Resolute
SKKS 02 57 (03)
eS 02 57 18
Seven Falls
eP 02 43 33
Shawinigan Falls
eP 02 43 29

JULY 9
U.S.C.G.S.
15S, 173 1/2W
Samoa Islands region
H = 09 07 11
Resolute
eS 09 32 45
eSS 09 39.4

JULY 9
U.S.C.G.S.
20 1/2S, 68W
Chile-Bolivia border
H = 16 05 18
h = 100 km
Mag 6 3/4
Alberni
P 16 17 52
Halifax
eP 16 15 51
iP_cP 16 16 00
iS 16 24 23
isS 16 25 13
i 16 26 29
Horseshoe Bay
eP 16 (17) -- d
Lillooet
iP 16 17 10
e 16 17 34
PP 16 19 15
e 16 21 19
Ottawa
eP 16 15 52
P_cP 16 16 24
pP 16 16 39
S 16 24 35
S_cS 16 25 25
PS 16 26 36
Resolute
eP 16 18 40
pP 16 19 10
sP 16 19 20
(PP) 16 22.5
(pPP) 16 22 57
pPPP 16 25.3
SKS 16 29 06
S 16 29 48
pS 16 30 27
sS 16 30 38
(SP) 16 31 06
sSP 16 31 58
SS 16 36.2
Seven Falls
eP 16 16 07
P_cP 16 16 37
S 16 24 55
S_cS 16 25 44
PS 16 26 45
Shawinigan Falls
eP 16 16 05
P_cP 16 16 34
e 16 16 48
e 16 16 57
S 16 24 49
S_cS 16 25 33
Victoria
iP 16 17 43.2 d
i 16 18 13.3 d
L 16 28 04.6

JULY 9
Canadian Arctic
H = 19 55 14.7
Mag 2.4
Resolute
P_1 19 56 04
S_1 19 56 41.5
D = 307 km

JULY 10
U.S.C.G.S.
19S, 69W
Chile-Bolivia border
H = 04 11 40
Ottawa
eP 04 22 18 d
Resolute
eP 04 25 09
e 04 36 02
SS 04 42.5
Seven Falls
eP 04 22 30
Shawinigan Falls
eP 04 22 26

JULY 10
U.S.C.G.S.
41N, 73 1/2E
Kirghiz, S.S.R.
H = 17 40 47
Resolute
eP 17 51 26

JULY 10
U.S.C.G.S.
5 1/2S, 145 1/2E
New Guinea
H = 17 51 46
Resolute
eP 18 05 44

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JULY 10
Resolute
e(P) 20 58 27
i 20 58 41
e 21 03 15
e 21 07.1
e 21 08 20

JULY 11
U.S.C.G.S.
Fiji Islands region
H = 03 07 04
Resolute
e 03 46 01
e 03 50.7

JULY 11
U.S.C.G.S.
18 1/2S, 169E
New Hebrides Islands
H = 04 51 30
Ottawa
eP' 05 10 25
Resolute
eP' 05 10 08
e 05 12.0
e 05 15.5
SKS 05 16.6
PS 05 20.0
SS 05 25 30
L 05 36.2

JULY 11
47.7N, 119.5W
North Central Washington
H = 08 01 43
Mag 2.9
Horseshoe Bav
iP 08 02 23.6
iS 08 02 29.0
D = 326 km
Lillooet
eP 08 02 36.0
iP 08 02 42.0
iS 08 03 30
D = 383 km
Victoria
P 08 02 27.8
S 08 03 07.1
D = 315 km

JULY 11
U.S.C.G.S.
37S, 79E
Indian Ocean
H = 12 01 39
Mag 6 1/4 - 6 1/2
Halifax
eP_2' 12 21 38
eSS 12 44 30
eSSS 12 50 24
eL 12 14.6
Lillooet
eP' 12 21 40
e 12 22 20
Ottawa
iP_2' 12 22 19 c
Resolute
eP' 12 21 11
(PP) 12 25 05
SKKKS 12 31 12
SKSP 12 34.3
S' 12 36.1
SS 12 42 51
Shawinigan Falls
eP_2' 12 22 11
Victoria
eP_2' 12 21 45

JULY 11
U.S.C.G.S.
44 1/2N, 148 1/2E
Kurile Islands
H = 18 23 00
Resolute
iP 18 33 26 c
eS 18 40 07
S_cS 18 42 12
Seven Falls
eP 18 35 23
Shawinigan Falls
eP 18 35 24

JULY 11
Resolute
e(P) 19 01 (58)
e 19 02 04
e 19 05 35

JULY 12
U.S.C.G.S.
8 1/2S, 157 1/2E
Solomon Islands
H = 00 13 30
Resolute
eS 00 39 28
SS 00 46.6
G 00 56.2

JULY 12
U.S.C.G.S.
19 1/2S, 177 1/2W
Fiji Islands region
H = 00 24 22
h = 400 km
Mag 6 1/4
Horseshoe Bay
iP 00 36 02
Ottawa
eP' 00 42 15
Resolute
eP' 00 42 04
SKS 00 48 02
Seven Falls
eP' 00 42 18

JULY 12
Resolute
eP 12 54 21 d

JULY 12
Resolute
eP 17 02 50 c

DOMINION OBSERVATORIES

JULY 13
U.S.C.G.S.
71 1/2N, 7 1/2W
Jan Mayen Island
H = 01 39 12
Resolute
eP 01 44 29
eS 01 48.8
e 01 52.9

JULY 13
U.S.C.G.S.
52N, 172 1/2W
Andreanof Islands
Aleutian Islands
H = 12 28 45
Mag 6 1/2
Alberni
iP 12 34 56 c
i 12 39 53
Halifax
iP 12 39 35 d
i 12 39 44
iS_cS 12 49 29
eL 12 58.3
Horseshoe Bay
eP 12 34 59
iS 12 37 55
Lillooet
iP 12 34 37
iS 12 37 33
Ottawa
iP 12 38 50 d
S 12 47 00
Resolute
iP 12 36 01 d
PP 12 37.3
P_cP 12 38 20
S 12 41 46
S_cS 12 46 13
Saskatoon
iP 12 42 12
Seven Falls
eP 12 38 58 d
S 12 47 13
Shawinigan Falls
eP 12 38 54
S 12 47 04
Victoria
iP 12 35 05
S 12 41 17

JULY 13
U.S.C.G.S.
25 1/2S, 180
Kermadec Islands region
H = 15 24 44
h = 500 km
Resolute
eP' 15 42 26

JULY 13
Ottawa
iP 22 58 39 c

JULY 13
U.S.C.G.S.
50 1/2N, 170W
Fox Islands region,
Aleutian Islands
H = 23 59 59
Resolute
eP 00 07 21
eS 00 13 17
L 00 15.7

JULY 14
U.S.C.G.S.
51 1/2N, 172W
Fox Islands,
Aleutian Islands
H = 08 40 48
Halifax
eP 08 51 37 d
i 08 51 48 d
eS 09 00 21
eL 09 12.3
Lillooet
eP 08 46 24
Ottawa
eP 08 50 52
Resolute
eP 08 48 03.5
P_cP 08 50 30
e(S) 08 53.7
L 08 56.2
Seven Falls
eP 08 51 01
Shawinigan Falls
eP 08 50 57

JULY 14
U.S.C.G.S.
57N, 158W
Alaska Peninsula
H = 11 33 51
h = 60 km
Alberni
iP 11 38 35 c
Horseshoe Bay
P 11 38 39
Lillooet
iP 11 38 55
Ottawa
eP 11 42 39
Resolute
eP 11 39 51 c
P_cP 11 42 07
eS 11 44 37
e 11 45 38
L 11 46.3
Seven Falls
eP 11 42 48
Shawinigan Falls
eP 11 42 44
Victoria
P 11 38 46

JULY 14
U.S.C.G.S.
16 1/2S, 173E
New Hebrides Islands
region
H = 13 00 24
h = 100 km
Lillooet
eP 13 12 20
Ottawa
eP' 13 19 03

Resolute
eP 13 14 33
SKKS 13 25 15
PS 13 28 09
SS 13 34.0
Shawinigan Falls
eP' 13 19 07

JULY 14
Resolute
eP 16 12 33
e 16 13 11

JULY 14
Resolute
eP 21 59.4
e 21 59 41

JULY 14
U.S.C.G.S.
1/2N, 120E
Near north coast of
Celebes
H = 22 31 22
Resolute
eP 22 45 18
(SKS) 22 56.0
eS 22 57.2

JULY 15
Resolute
eP 08 30 52

JULY 15
Resolute
eP 10 39 48
e 10 40 14
e 10 41 10
e 10 42 38

JULY 16
Resolute
eP 06 31 34
e 06 35 26

JULY 16
U.S.C.G.S.
54N, 161W
South of Alaska
Peninsula
H = 07 00 05
Ottawa
eP 07 09 20
Resolute
eP 07 06 40
eP 07 06 52
L 07 13.0
Seven Falls
eP 07 09 28
Shawinigan Falls
eP 07 09 25

JULY 16
U.S.C.G.S.
50 1/2N, 177W
Andreanof Islands region,
Aleutian Islands
H = 15 17 27
Alberni
eP 15 24 04
Banff
eP 15 24 44
Lillooet
iP 15 23 55
Ottawa
eP 15 27 53
Resolute
eP 15 25 05
PP 15 26 43
eS 15 31 06
L 15 33.5
Seven Falls
eP 15 28 02
Shawinigan Falls
eP 15 27 58
Victoria
P 15 24 15

JULY 16
U.S.C.G.S.
21 1/2S, 169E
Loyalty Islands
H = 19 13 52
Ottawa
eP' 19 32 52
Resolute
eP' 19 32 32
PSPS 19 49 (20)
Seven Falls
eP' 19 32 58
Shawinigan Falls
eP' 19 33 06

JULY 17
Resolute
eP 03 39 02
i 03 42 40
i 03 42 56
e 03 43 28
e 03 45.2
e 03 47 00

JULY 17
Victoria
P 14 56 19

JULY 17
U.S.C.G.S.
7 1/2N, 71 1/2W
Colombia-Venezuela
border
H = 22 52 08
Ottawa
eP 22 59 32
Resolute
eP 23 03 15

DOMINION OBSERVATORIES

JULY 17
U.S.C.G.S.
60 1/2N, 153 1/2W
Southern Alaska
H = 23 21 28
h = 150 km
Ottawa
eP 23 30 12
Resolute
eP 23 26 43
eS 23 21.2
Shawinigan Falls
eP 23 30 17

JULY 18
U.S.C.G.S.
21 1/2S, 179W
Fiji Islands region
H = 07 00 36
h = 600 km
Resolute
eP' 07 18 04
SS 07 33 28
sSS 07 36.8

JULY 18
Resolute
eP 11 33 35

JULY 18
49.5°N, 127°W
Off coast of Vancouver, British Colombia
H = 12 19 05
Alberni
eP 12 19 28
D = 144 km
Banff
eP 12 20 53.9
D = 850 km
Horseshoe Bay
iP 12 19 47
D = 288 km
Lillooet
iP 12 19 57
D = 569 km
Resolute
eP 12 24 (38)
eS 12 29 22
eL 12 30.8
e 12 33 (28)
e 12 35 34
Victoria
P 12 19 48

JULY 18
U.S.C.G.S.
15 1/2N, 120 1/2E
Luzon, Philippine Islands
H = 19 54 57
h = 150 km
Mag 6 1/2 - 6 3/4
Alberni
iP 20 07 58
iL 20 18 03
Banff
iP 20 08 19.3
L 20 19 09.3
Halifax
iP' 20 13 (36)
e 20 15 (00)
iSKS 20 20 (18)
iSKKS 20 21 (44)
iPS 20 24 (26)
iPPS 20 26 (38)
i 20 30 (37)
iSS 20 31 (10)
Horseshoe Bay
iP 20 08 06
iS 20 09 07
Ottawa
eP' 20 13 31
PP 20 14 41
SKS 20 20 12
SKKS 20 21 28
PS 20 24 06
SS 20 30 40
Resolute
iP 20 07 32 d
iS 20 17 42
i 20 18 55
iSS 20 23 40
e 20 25 28
eP'P' 20 33 22
Saskatoon
eP 20 12 26
e 20 19 00
Seven Falls
eP' 20 13 32
PP 20 14 39
SKS 20 20 08
S 20 22 10
pPS 20 25 10
SS 20 30 33
SSS 20 33 59
Shawinigan Falls
eP' 20 13 29
PP 20 14 38
SKKS 20 21 25
PS 20 23 57
Victoria
P 20 08 07

JULY 19
U.S.C.G.S.
6 1/2S, 105E
Sunda Strait
H = 03 42 02
Ottawa
eP' 04 01 30
Resolute
eP' 04 00 39
PP 04 01 16
SKS 04 07 16
PS 04 10 40
Seven Falls
eP' 04 01 26
Shawinigan Falls
eP' 04 01 26

JULY 19
Canadian Arctic
H = 11 11 00.2
Mag 2.0
Resolute
P_1 11 11 04.5
S_1 11 11 07.8
D = 27 km

JULY 19
Resolute
eP 12 10 35

JULY 19
U.S.C.G.S.
15S, 70 1/2W
Peru
H = 15 06 10
h = 200 km
Mag 7
Alberni
iP 15 17 59
iL 15 27 51
Banff
iP 15 17 37
Halifax
eP 15 15 (55) c
iP 15 15 (56) d
ipP 15 16 43 c
isP 15 17 13 c
i(P_cS) 15 20 25 c
i 15 24 21
isS 15 25 21
i 15 26 21
Horseshoe Bay
iP 15 17 58
iL 15 27 47
Lillooet
iP 15 17 37
Ottawa
eP 15 16 01
P_cP 15 16 49
S 15 24 00
S_cS 15 25 32
Resolute
eP 15 18 55
iP 15 18 56.5 c
pP 15 19 47
PP 15 22 27
PPP 15 24 32
SKS 15 29 09
S 15 29 35
PS 15 31.1
Saskatoon
eP 15 17 26
e 15 26 49
Seven Falls
eP 15 16 13
P_cP 15 17 04
S 15 24 14
S_cS 15 25 47
Shawinigan Falls
eP 15 16 08 c
P_cP 15 16 58
S_cP 15 20 35
S 15 24 07
S_cS 15 25 27
Victoria
P 15 17 55

JULY 19
U.S.C.G.S.
15 1/2S, 71W
Southern Peru
H = 15 36 17
h = 200 km
Banff
iP 15 47 51
Horseshoe Bay
iP 15 48 06
Lillooet
eP 15 48 26
Ottawa
eP 15 46 10
Resolute
eP 15 49 04 c
iP 15 49 04.5 d
Seven Falls
iP 15 46 22 c
Shawinigan Falls
eP 15 46 16

JULY 19
Alberni
eP 22 08 25
Horseshoe Bay
iP 22 08 42
Victoria
P 22 08 35

JULY 20
U.S.C.G.S.
6S, 111E
Near north coast of Java
H = 02 41 04
h = 500 km
Alberni
eP' 02 58 52
Banff
eP' 02 59 02
Horseshoe Bay
iP' 02 58 56
Ottawa
eP' 02 59 32
pP 03 01 30
SKP 03 02 27
PP 03 02 40
PKS 03 02 57
pPP 03 04 26
Resolute
eP 02 54 (44)
e 02 56 (35)
iP' 02 58 41
PP 02 59 21
e 03 01 02
e 03 04 29
SKS 03 05 26
e 03 07 53
PS 03 08 (51)
PPS 03 09.7
PKKP 03 10 02
(SS) 03 13 50
e 03 17 40
Seven Falls
eP' 02 59 29
SKP 03 02 24
pPP 03 04 23
Shawinigan Falls
eP' 02 59 29
pP 03 01 38
SKP 03 02 24
PP 03 02 35
pPP 03 04 23
Victoria
P' 02 58 56

JULY 20
Resolute
eP 12 23 46

JULY 20
U.S.C.G.S.
23 1/2S, 179E
Fiji Islands region
H = 16 53 38
h = 600 km
Horseshoe Bay
eP 17 05 37
Resolute
eP' 17 11 08
Seven Falls
eP' 17 11 27

JULY 20
Resolute
iP 18 38 20 c

JULY 21
U.S.C.G.S.
9S, 151E
Off coast of eastern
New Guinea
H = 00 43 38
Resolute
eS 01 09 46
eSS 01 17.2

JULY 21
U.S.C.G.S.
14 1/2S, 167 1/2E
New Hebrides Islands
H = 07 43 13
Mag 6 1/4
Alberni
eP 07 55 59
Banff
eP 07 56 27
Horseshoe Bay
iP 07 56 07 c
Lillooet
eP 07 56 18

Ottawa
eP' 08 02 02
Resolute
ePP 08 01.7
ePPP 08 04 09
eS 08 09 14
ePS 08 11 02
eSS 08 17.1
e 08 26 (40)
Seven Falls
eP' 08 02 08
Shawinigan Falls
eP' 08 02 06
Victoria
eP 07 56 01 (c)

JULY 21
U.S.C.G.S.
19N, 68 1/2W
Near north coast of
Dominican Republic
H = 09 17 51
Mag 6
Alberni
eP 09 27 39
Banff
eP 10 26 41
Halifax
eP 09 23 (24)
iS 09 28 (01)
Horseshoe Bay
iP 09 28 11 d
Lillooet
eP 09 27 16
Ottawa
eP 09 23 37
Resolute
iP 09 27 41.5 (d)
eS 09 35 37
S_cS 09 37 26
SS 09 39 32
G 09 41.5
Seven Falls
eP 09 23 47
S 09 28 28
Shawinigan Falls
eP 09 23 43
Victoria
eP 09 27 09 c

JULY 21
U.S.C.G.S.
16N, 98W
Near coast of
Oaxaca Mexico
H = 12 29 09
Mag 6
Alberni
eL 12 42 55
Banff
iP 12 43 27.2
Halifax
eP 12 36 (49)
ePP 12 38 (25)
eS 12 43 (09)
e 12 44 (21)
e 12 45 (33)
Horseshoe Bay
eP 12 36 39 c
Lillooet
eP 12 36 47
Ottawa
eP 12 36 01
Resolute
eP 12 39 07
iP 12 39 07.5 d
PP 12 41 18
PPP 12 42 (32)
eS 12 47 15
S_cS 12 48 57
SS 12 51.1
G 12 53.5
L 13 01 00
Saskatoon
eP 12 42 06
eS 12 49 26
Shawinigan Falls
eP 12 36 20
Victoria
eP 12 36 33 (c)
e 12 53 54
e 12 55 51

JULY 21
U.S.C.G.S.
16N, 98W
Near coast of
Oaxaca Mexico
H = 13 03 31
Mag 6
Banff
iP 13 10 49
Halifax
iP 13 11 12 c
eS 13 17 44
Horseshoe Bay
eP 13 10 49
Lillooet
eP 13 11 11
Ottawa
eP 13 10 23
e 13 14 44
Resolute
eP 13 13 29.5 c
iP 13 13 30 d
eS 13 21 10
L 13 35 22
Seven Falls
eP 13 10 54
Shawinigan Falls
eP 13 10 43
Victoria
eP 13 10 56

JULY 21
U.S.C.G.S.
37N, 112 1/2W
Utah-Arizona border
H = 17 39 29
Mag 5 1/2 - 5 3/4
Ottawa
eP 17 45 25
L 17 53 10
e 17 54 18
Resolute
eP 17 46 (54)
iP 17 47 00
L 17 55.4
Seven Falls
eP 17 45 57

JULY 21
48°42'N, 123°42'W
South Vancouver Island
H = 21 24 50
Mag 1.6
Alberni
eP 21 25 07.0
eS 21 25 19.7
D = 108 km
Victoria
iP 21 24 54.2c,S,E
iS 21 24 57.5
D = 27 km

JULY 22
Ottawa
eP 03 08 25
Resolute
e 03 30.1
Shawinigan Falls
eP 03 08 35

JULY 22
48.3N, 122.7W
West of Whidbey Island
H = 04 05 52
Mag 2.5
Alberni
iP 04 06 22.4
D = 72 km
Horseshoe Bay
iP 04 06 13.7
iS 04 07 31.5
D = 133 km
Victoria
iP 04 06 02.2 c
iS 04 06 09.6
D = 61 km

JULY 22
48.2N, 122.7W
East of Whidbey Island
H = 04 07 10
Alberni
iP 04 07 39.7
iS 04 07 40.7
D = 190 km

Horseshoe Bay
iP 04 07 32.1
D = 139 km
Victoria
iP 04 07 19.7
iS 04 07 27.1
D = 61 km

JULY 22
U.S.C.G.S.
15 1/2N, 97 1/2W
Off coast of Oaxaca
Mexico
H = 04 51 30
Halifax
ePP 05 00 (54)
eS 05 05 (33)
e 05 16 (55)
Ottawa
eP 04 58 25
Resolute
eP 05 01 33
eS 05 09 36
SS 05 13.5
eL 05 23 (16)
Shawinigan Falls
eP 04 58 46

JULY 22
U.S.C.G.S.
2N, 126 1/2E
Molucca Passage
H = 11 15 33
Ottawa
eP' 11 34 40
i 11 34 43
Resolute
eP 11 29 16.5 (c)
iP 11 29 16.8 d
ePP 11 33 18
SKS 11 39 49
SS 11 47.6
Seven Falls
eP' 11 34 44
Shawinigan Falls
eP' 11 34 42 d

JULY 22
48.6N, 124.7W
Near Clo-oose,
Vancouver Island
H = 15 34 13.4
Mag 2.4
Alberni
iP 15 34 25.7
D = 74 km
Horseshoe Bay
iP 15 34 34.8 c
iS 15 34 35.5
D = 134 km
Victoria
iP 15 34 28.2
eS 15 34 31.7
D = 95 km

JULY 22
U.S.C.G.S.
15 1/2N, 97 1/2W
Near coast of Oaxaca,
Mexico
H = 15 53 53
Alberni
iP 15 56 11
eL 16 01 17
Banff
eL 16 01 16
Horseshoe Bay
iP 15 56 22 c
eL 16 01 29
Lillooet
eP 15 56 11
Ottawa
eP 16 00 47
Resolute
eP 16 03 (53)
eS 16 12 01
SS 16 16.2
L 16 25 40
Shawinigan Falls
eP 16 01 07
Victoria
eP 15 56 13
eL 16 15 16

JULY 22
U.S.C.G.S.
53N, 153E
Sea of Okhotsk
H = 19 24 17
h = 650 km
Mag 6 1/4
Alberni
iP 19 32 11
eL 19 38 33
Banff
iP 19 32 32
Halifax
iP 19 35 (12) d
epP 19 37 (27)
eS 19 44 11
eSP 19 44 57
Horseshoe Bay
iP 19 32 16 c
iS 19 36 20 c
Ottawa
iP 19 34 48 d
pP 19 36 54
S 19 43 22
i 19 44 35
Resolute
iP 19 31 39.5 d
i 19 32 10
iP_cP 19 33 06
sP 19 34.5
iS_cP 19 36 00
iS 19 37 33
e 19 39 19
iS_cS 19 40 24
iSS 19 41 10
Seven Falls
eP 19 34 50
S 19 43 28
S_cS 19 43 54
Shawinigan Falls
eP 19 34 48 d
pP 19 36 57
S 19 43 22
i 19 44 35
Victoria
iP 19 32 20 c,S,E
e 19 38 49
i 19 41 05

JULY 22
Alberni
eP 19 41 51
Banff
iP 19 42 33
Victoria
eP 19 42 20

JULY 22
U.S.C.G.S.
5S, 152 1/2E
New Britain
H = 23 02 27
h = 60 km
Alberni
eP 23 15 24
eL 23 25 55
Banff
eP 23 15 49
Halifax
iP' 23 21 35 d
iPKS 23 24 55
e 23 25 19
eSKS 23 28 45
eL 23 47.9
Horseshoe Bay
eP 23 15 25 c
Ottawa
eP' 23 21 20
PP 23 22 50
Resolute
eP 23 16 13 c
iP 23 16 29
SKS 23 26 50
eS 23 28.0
PS 23 29 22
SS 23 35 06
Shawinigan Falls
eP' 23 21 23
Victoria
eP 23 15 24
e 23 25 56
e 23 27 44
eL 23 38 28

JULY 23
U.S.C.G.S.
5S, 152 1/2E
New Britain Island
H = 00 04 49
Ottawa
eP' 00 23 43

JULY 23
U.S.C.G.S.
3N, 71W
Colombia
H = 03 48 12
h = 60 km
Banff
eP 03 58 05
Ottawa
eP 03 56 04
Resolute
eP 03 59 (36)
eS 04 09.0
Seven Falls
eP 03 56 21
Shawinigan Falls
eP 03 56 15 c

JULY 23
U.S.C.G.S.
3N, 76 1/2W
Colombia
H = 04 24 35
Ottawa
eP 04 32 35
Shawinigan Falls
eP 04 32 48 d

JULY 23
51N, 122W
Near Lillooet,
British Columbia
H = 06 41 19
Alberni
iP 06 41 59.5
iS 06 42 31.2
D = 277 km
Horseshoe Bay
iP 06 41 47.5
iS 06 42 09.3
D = 179 km
Victoria
iP 06 42 22
D = 297 km

JULY 23
45.4N, 124.5W
Off coast of Oregon
H = 08 15 24
Mag 4.2
Alberni
eP 08 16 23.8
D = 434 km
Banff
eP 08 17 25.8
D = 945 km
Horseshoe Bay
iP 08 16 26.1 d
iS 08 17 23.4
D = 456 km
Ottawa
eP 08 21 58
Resolute
eP 08 21 42
Shawinigan Falls
eP 08 22 13
Victoria
iP 08 16 14.8 c
iS 08 17 02.1
D = 359 km

JULY 23
Ottawa
eP 11 19 32

JULY 23
U.S.C.G.S.
38N, 140E
Honshu, Japan
H = 13 45 20
Banff
iP 13 56 27

Lillooet
eP 13 56 00
Resolute
iP 13 55 39 c

JULY 23
U.S.C.G.S.
24 1/2S, 176W
Tonga Islands region
H = 14 56 45
h = 60 km
Mag 5 3/4
Alberni
eP 15 09 29
Banff
eP 15 09 54
Horseshoe Bay
eP 15 09 30
Lillooet
eP 15 10 00
Resolute
eP' 15 15 (16)
PP 15 15 55
SKS 15 21 52
eS 15 23 36
PS 15 25 42
Victoria
eP 15 09 29

JULY 23
U.S.C.G.S.
25N, 125 1/2E
Ryukyu Islands
H = 21 25 39
Resolute
eP 21 37 35
eS 21 47 23

JULY 24
U.S.C.G.S.
41N, 125 1/2W
Off coast of Northern
California
H = 01 23 09
Mag 5 3/4
Alberni
iP 01 25 08.6
eL 01 28 07

DOMINION OBSERVATORIES

Banff
iP 01 26 04.0
Halifax
ePP 01 31 22 c
i 01 31 32 c
iS 01 38 02
iSS 01 41 31
e(SSS) 01 43 06
eL 01 43.1
Horseshoe Bay
iP 01 25 08.6 d
iS 01 26 31.1
Lillooet
iP 01 25 20
Ottawa
eP 01 30 12
S 01 35 56
Resolute
iP 01 30 15.5 c
PP 01 31 36
eS 01 36 01
L 01 38.5
S_cS 01 40 36
Saskatoon
eP 01 26 07.5
iS 01 33 05
Seven Falls
eP 01 30 38 c
S 01 36 36
Shawinigan Falls
eP 01 30 16
Victoria
eP 01 25 02
eS 01 26 18

JULY 24
Resolute
eP 02 54 15 c
iP 02 54 15.5 d
e 02 54 33

JULY 24
U.S.C.G.S.
41N, 125 1/2W
Off coast of
California
H = 03 35 24
Alberni
eP 03 37 54
Banff
eP 03 38 54.5
Horseshoe Bay
iP 03 37 55 c
eS 03 39 00
Lillooet
eP 03 38 05
Victoria
eP 03 37 44
eL 03 42 --

JULY 24
U.S.C.G.S.
21S, 70 1/2W
Chile
H = 05 12 40
Seven Falls
eP 05 23 34

JULY 24
U.S.C.G.S.
24 1/2N, 94 1/2E
India-Burma border
H = 16 17 30
Resolute
eP 16 29 44
iP 16 30 25
eS 16 39 43
L 16 45.0

JULY 24
U.S.C.G.S.
5 1/2S, 153E
New Britain Island
region
H = 19 20 13
Resolute
SKS 19 44 33
SS 19 52.7

JULY 24
U.S.C.G.S.
56 1/2S, 28 1/2W
Sandwich Islands
H = 23 03 08
Banff
eL 23 22 15
e 23 25 23
Halifax
eSKS 23 27 43
eS 23 28 31
eSS 23 36 27
e 23 37 11
Horseshoe Bay
iP' 23 22 17 c
i 23 25 30
Resolute
eP' 23 22 25
iPP 23 25 54
SKS 23 29 48
SKKS 23 32 02
SS 23 43.2
Victoria
eP' 23 25 31 c

JULY 24
Resolute
eP 23 34 39

JULY 25
Resolute
e 12 21 50

JULY 25
U.S.C.G.S.
50N, 142 1/2E
Sakhalin
H = 15 58 50
Resolute
eP 16 07 (42)
P_cP 16 09 03
L 16 25.7

SEISMOLOGICAL BULLETIN - 1959

JULY 25
Ottawa
eP 19 36 02
Resolute
eP 19 32 52
e 19 39 52

JULY 25
U.S.C.G.S.
37N, 140 1/2E
Honshu, Japan
H = 21 20 35
h = 100 km
Banff
iP 21 31 38
Horseshoe Bay
eP 21 28 24
Ottawa
iP 21 33 33
Resolute
iP 21 30 52 d
ipP 21 31 14
eS 21 39.2

JULY 26
U.S.C.G.S.
41N, 27 1/2E
Northwestern Turkey
H = 17 07 03
Resolute
eSS 17 28.6
eL 17 30.8

JULY 26
U.S.C.G.S.
53N, 160E
Kamchatka
H = 19 37 40
Ottawa
eP 19 48 57 d
Resolute
eP 19 45 55

JULY 27
49°00'N, 123°04'W
Boundary Bay
H = 03 27 45
Mag 2.3
Horseshoe Bay
iP 03 27 51.4 (c)
iS 03 28 00.0
D = 42 km
Victoria
iP 03 27 54.4 d
iS 03 28 01.8

JULY 27
U.S.C.G.S.
About 900 miles west
of Galapagos Islands
H = 05 27 45
Ottawa
eP 05 36 58
Resolute
e 05 48 28
e 05 56.0
e 06 00.3
Shawinigan Falls
eP 05 37 17

JULY 27
Ottawa
eP 06 36 21

JULY 28
49.5N, 130.0W
Off west coast of
British Columbia
H = 12 28 08
Mag 3.2
Horseshoe Bay
iP 12 29 16.7
Victoria
P 12 29 15.7
D = 500 km

JULY 29
Alberni
eP 02 (58) (43)
Banff
eP 03 01 14
Horseshoe Bay
eP 03 00 24
Victoria
eP 03 00 16 c
e 03 00 21

JULY 29
Alberni
iP 22 (26) (36.7)
Horseshoe Bay
iP 22 28 00.0 c
Victoria
eP 22 28 09.9
e 22 28 13
Local shock

JULY 30
48°24'N, 122°32'W
Whidbey Islands
H = 07 19 19
Alberni
iP 07 (18) (20.5)
S 07 (18) (43.7)
D = 189 km
Horseshoe Bay
iP 07 19 38.3
iS 07 19 53.1
D = 121 km
Victoria
iP 07 19 30.6 d, N, W
iS 07 19 39.5
D = 66 km

JULY 30
U.S.C.G.S.
Indian Ocean near
49S, 118E
H = 06 12 18
Resolute
eP' 06 32 10
iP' 06 32 19

JULY 30
U.S.C.G.S.
31 1/2S, 177 1/2W
Kermadec Islands
H = 12 53 56
Resolute
eP' 13 12 54
iP' 13 13 03

JULY 31
U.S.C.G.S.
10 1/2S, 71W
Southern Peru
H = 01 51 45
h = 150 km
Ottawa
eP 02 01 52
Seven Falls
eP 02 02 04
Shawinigan Falls
eP 02 02 00

JULY 31
U.S.C.G.S.
5S, 152 1/2E
New Britain
H = 04 59 23
Resolute
SKS 05 23.9
PS 05 26 20
SS 05 31.6
PSPS 05 32.3

JULY 31
U.S.C.G.S.
6 1/2S, 154 1/2E
Solomon Islands
H = 18 35 12
Alberni
eP 18 (47) (04)
Horseshoe Bay
iP 18 48 31 d
Victoria
iP 18 48 17 c

JULY 31
U.S.C.G.S.
38 1/2N, 70E
Tadzhik, S.S.R.
H = 19 53 02
Banff
e 20 06 05
Horseshoe Bay
iP 20 06 11
Shawinigan Falls
eP 20 06 06
Victoria
eP 20 06 15

AUGUST 1
U.S.C.G.S.
27 1/2S, 65W
Tucuman Province, Argentina
H = 10 01 30
h = 200 km
Shawinigan Falls
eP 10 12 54

AUGUST 1
48°25'N, 68°19'W
About ten miles east of Rimouski, Quebec
H = 13 52 49.3
Mag 4.1
Halifax
P_n 13 54 04
S_1 13 55 26
D = 555 km
Montreal
P_n 13 53 59.3
S_n 13 54 51
i 13 55 12.5
S_1 13 55 14
D = 520 km
Ottawa
S_1 13 55 51
D = 656 km
Seven Falls
P_n 13 53 26.0
i 13 53 30.5
i 13 53 51.5
S_1 13 53 57.5
D = 235 km

Shawinigan Falls
P_n 13 53 46.5
S_1 13 54 41
D = 392 km

AUGUST 1
Resolute
eP 23 27 13
e 23 27 21

AUGUST 2
47.8N, 126.4W
Off coast of Washington
H = 09 35 52
Mag 3.0
Alberni
iP 09 36 22.4
iS 09 36 46.3
D = 188 km
Horseshoe Bay
iP 09 36 37.5 d
D = 312 km
Victoria
iP 09 36 30.1 d
eS 09 36 59.9
D = 252 km

AUGUST 2
49°34'N, 120°09'W
Near Nootka Sound
H = 09 48 58.9
Mag 2.5
Alberni
iP 09 49 16.5
iS 09 49 30.2
i 09 49 43.7
D = 103 km
Horseshoe Bay
iP 09 49 31.3
iS 09 49 55.3
D = 210 km
Victoria
eP 09 49 33.7
eS 09 49 54.4
D = 230 km

AUGUST 2
U.S.C.G.S.
About 150 miles north of Puerto Rico
H = 20 29 55
Ottawa
eP 20 35 47
Resolute
e(S) 20 46.8
Shawinigan Falls
eP 20 24 04

AUGUST 2
U.S.C.G.S.
49 1/2N, 129 1/2W
Off coast of Vancouver, British Columbia
H = 23 45 19
Alberni
iP 23 46 03.6
Horseshoe Bay
iP 23 46 20 (d)
Resolute
eP 23 51.5
eS 23 56 20
eL 23 57.1
Victoria
eP 23 46 10.4

AUGUST 3
U.S.C.G.S.
33N, 79 1/2W
South Carolina
H = 06 08 30
Ottawa
eP 06 11 36
S 06 13 56
Resolute
eP 06 16 31
eL 06 30 24
Seven Falls
eP 06 12 10
S 06 15 15
Shawinigan Falls
eP 06 12 05

AUGUST 3
U.S.C.G.S.
Indian Ocean near 46 1/2S, 98E
H = 15 36 37
Resolute
eP' 15 56 43 (d)

AUGUST 3
U.S.C.G.S.
Indian Ocean near 46 1/2S, 98E
H = 16 09 54
Resolute
eP' 16 29 59
iP' 16 30 07

AUGUST 3
Ottawa
eP 18 03 15
Shawinigan Falls
eP 18 03 34

AUGUST 4
U.S.C.G.S.
27S, 68 1/2W
Chile - Argentina border
H = 03 00 33
Ottawa
eP 03 12 07
Seven Falls
eP 03 12 17
Shawinigan Falls
eP 03 12 13

AUGUST 4
U.S.C.G.S.
20 1/2S, 178W
Fiji Islands region
H = 08 02 17
h = 600 km
Banff
iP 08 14 20
Lillooet
eP 08 14 20

Ottawa
iP' 08 19 52 c
Resolute
eP' 08 19 41.5
SKS 08 25 24
S 08 26 58
e 08 29 24
PS 08 30 04
sS 08 30 44
sPS 08 32 24
sSS 08 37 58
Shawinigan Falls
eP' 08 19 56

AUGUST 4
Resolute
iP 14 09 12 c
i 14 10 08
i 14 11 04

AUGUST 4
Horseshoe Bay
eP 23 54 28
Victoria
eP 23 54 19

AUGUST 5
U.S.C.G.S.
12 1/2N, 125E
Samar, Philippine Islands
H = 05 16 39
Resolute
eP 05 29 (39)
iP 05 29 41
eS 05 40 28
S_cS 05 40 52
SS 05 46.7
SSS 05 50.1
G 05 53.4

DOMINION OBSERVATORIES

AUGUST 5
Resolute
eP 10 39 47
i 10 39 54.5

AUGUST 5
U.S.C.G.S.
5 1/2N, 125 1/2E
Near south coast of Mindanao, Philippine Islands
H = 13 48 42
Resolute
eP 14 02 16
SKS 14 12 36
eS 14 13 20
SS 14 20 04
PSPS 14 20.6
SSS 14 24.0
Shawinigan Falls
eP' 14 07 46

AUGUST 5
U.S.C.G.S.
14N, 142E
Mariana Islands
H = 19 52 54
Resolute
eP 20 05 (38)

AUGUST 6
U.S.C.G.S.
48N, 120W
Washington State
H = 03 44 37
Resolute
eP 03 50 38 c
eP 03 51 21
eL 03 58.2

AUGUST 6
Chelan county
Washington State
aftershock
H = 04 36 16
Mag 3.9
Alberni
iP 04 37 09.8
eS 04 38 03.5
D = 381 km
Banff
iP 04 37 21.5
D = 479 km
Horseshoe Bay
eP 04 36 59.5
e 04 37 42.8
D = 300 km
Lillooet
iP 04 37 17
D = 442 km
Victoria
iP 04 36 52.0 c,N,W
D = 180 km

AUGUST 6
Resolute
e 04 50 (30)
e 04 51 (25)
e 04 51 30

AUGUST 7
U.S.C.G.S.
56N, 154W
Kodiak Island region
H = 10 43 32
Mag 5 3/4
Alberni
eP 10 47 52.0 d
Halifax
ePS 11 00 33
eS_cS 11 02 46
eSS 11 03 54
eL 11 09.8
Horseshoe Bay
iP 10 48 00 c
iL 10 53 01

Lillooet
eP 10 48 13
eS 10 53 14
Ottawa
eP 10 52 10
eS 10 59 05
Resolute
iP 10 49 30 c
iS 10 54 32
iL 11 01.6
Seven Falls
eP 10 52 21
S 10 59 24
Shawinigan Falls
eP 10 52 16
Victoria
eP 10 48 07 d,N,W
e 10 53 08

AUGUST 7
U.S.C.G.S.
10 1/2S, 162 1/2E
Solomon Islands
H = 19 10 59
Ottawa
eP' 19 29 52
Resolute
e 19 33.3
e 19 38.7
SS 19 44.3
PSPS 19 44.5

AUGUST 7
U.S.C.G.S.
56 1/2N, 154W
Kodiak Island
H = 21 45 26
Mag 5
Alberni
iP 21 49 47
Halifax
iP 21 55 05 c
e 22 02 28
eS_cS 22 04 41
eSS 22 06 26
eSSS 22 08.8
eG 22 12.6

Horseshoe Bay
iP 21 49 55 d
Ottawa
eP 21 54 05
S 22 01 00
Resolute
eP 21 51 25
iP 21 51 25.5 d
iP_cP 21 54 15
eS 21 56 04
L 22 03.5
Seven Falls
eP 21 54 15
Shawinigan Falls
eP 21 54 12
Victoria
eP 21 50 00
iP 21 50 00.5 d,N,W
e 21 53 47
eL 21 54.5

AUGUST 8
U.S.C.G.S.
55N, 162 1/2E
Near east coast of Kamchatka
H = 00 47 38
Mag 6 1/2
Alberni
eP 00 53 39.2
Halifax
iP 00 59 10 d
i 00 59 22 d
iPPP 01 03 51
eS 01 08 34
eSS 01 12 32
eL 01 20.6
Horseshoe Bay
iP 00 55 43 d
Ottawa
eP 00 58 47
PP 01 01 12
Resolute
eP 00 55 23
iP 00 55 23.5 c
eS 01 01.5
L 01 04.6

Seven Falls
eP 00 58 42
Shawinigan Falls
eP 00 58 42
Victoria
iP 00 55 49 d,N,W

AUGUST 8
U.S.C.G.S.
14S, 76W
Near coast of Peru
H = 02 54 53
Ottawa
eP 03 05 01
Resolute
e(P) 03 08 15
Seven Falls
eP 03 05 11
Shawinigan Falls
eP 03 05 06

AUGUST 8
U.S.C.G.S.
6S, 155E
Solomon Islands
H = 23 56 05
h = 100 km
Resolute
SKS 00 20 17
PS 00 23.0
SS 00 28 34
G 00 38.1

AUGUST 9
U.S.C.G.S.
2N, 128E
Halmahera
H = 02 34 43
Ottawa
eP' 02 53 50
Resolute
eP 02 48 26
SS 03 06.6
Seven Falls
eP' 02 53 51
Shawinigan Falls
eP' 02 53 51

AUGUST 9
Resolute
e 05 13.4
e 05 16 13
e 05 17 14
e 05 22.1

AUGUST 9
Resolute
eP 15 35 45
iP 15 36 46 d

AUGUST 9
U.S.C.G.S.
10S, 161E
Solomon Islands
H = 20 29 28
h = 100 km
Ottawa
eP' 20 48 14
Resolute
eS 20 55 10
PS 20 57.0
SS 21 02 28
G 21 12.3

AUGUST 10
U.S.C.G.S.
55 1/2S, 146E
Indian Ocean, south of Australia
H = 00 36 35
Ottawa
eP' 00 56 28
Resolute
eP' 00 56 (23)
iP' 00 56 27.5 c
SKSP 01 10.2
SS 01 20 03
SSS 01 24.6
Shawinigan Falls
eP' 00 56 34

DOMINION OBSERVATORIES

AUGUST 11
Resolute
e 13 24 (20)
e 13 28.5
e 13 30 04

AUGUST 11
Resolute
e 13 45 (20)
e 13 52.5
e 13 55.0

AUGUST 11
Resolute
e 14 29.2
e 14 31.0
e 14 33.4

AUGUST 11
U.S.C.G.S.
44 1/2N, 148 1/2E
Kurile Islands
H = 15 24 30
Resolute
eS 15 41.5

AUGUST 11
Resolute
e 18 24 04
e 18 25.2
e 18 28.4

AUGUST 11
U.S.C.G.S.
11S, 163E
Solomon Islands region
H = 21 49 42
Ottawa
eP' 22 08 35
Resolute
SKS 22 14 26
eS 22 15 32
PS 22 17 10
PPS 22 18 04
SS 22 22.3

AUGUST 12
U.S.C.G.S.
12N, 86W
Nicaragua
H = 00 33 38
h = 100 km
Horseshoe Bay
iP 00 44 13 d
Lillooet
iP 00 44 12 d
iS 00 46 09
Ottawa
eP 00 40 24
Resolute
e(PP) 00 46.0
e(S_cS) 00 53.2
e 00 54.6
e 00 55 (02)
Shawinigan Falls
eP 00 40 39
Victoria
eP 00 44 05
e 00 46 09
e 00 47 36

AUGUST 12
U.S.C.G.S.
12N, 86W
Nicaragua
H = 00 35 36
h = 100 km
Halifax
ePP 00 44 23
esS 00 49 23
iS_cS 00 52.7
Ottawa
eP 00 42 25

AUGUST 12
U.S.C.G.S.
3S, 80 1/2W
Near coast of Ecuador
H = 02 00 52
Lillooet
eP 02 12 47 c
Ottawa
eP 02 09 35
Resolute
eS 02 22.7
SS 02 28.1
Seven Falls
eP 02 09 54
Shawinigan Falls
eP 02 09 47

AUGUST 12
U.S.C.G.S.
15S, 28E
Northern Rhodesia
H = 04 05 20
Resolute
(PS) 04 33.5
(SSS) 04 44.5

AUGUST 12
U.S.C.G.S.
16 1/2S, 177 1/2W
Fiji Islands region
H = 09 58 22
Mag 6 1/2
Alberni
eP 10 10 38
Halifax
eSKKS 10 25 49
e 10 26 25
ePS 10 28 44
eSS 10 34 51
G 10 45.7
Horseshoe Bay
eP 10 10 39 d
Lillooet
eP 10 10 44 d
Ottawa
eP' 10 14 53
Resolute
PP 10 16 39
(PPP) 10 19 04
SKS 10 23 08
eS 10 24 14
PS 10 25 43
SS 10 31 30
e 10 38 32
L 10 41.4

Victoria
eP 10 10 37
e(S) 10 20 53
eL 10 31.4

AUGUST 12
Shawinigan Falls
eP 18 13 21

AUGUST 13
U.S.C.G.S.
40N, 49E
Azerbaijan, S.S.R.
H = 00 33 09
Lillooet
eP 00 44 58 c
Shawinigan Falls
eP 00 45 17

AUGUST 13
48°43'N, 124°27'W
South West of Vancouver Island
H = 13 56 13.7
Mag 2.7
Alberni
iP 13 56 25.0
iS 13 56 34.9
D = 70 km

Horseshoe Bay
iP 13 56 32.2 d
iS 13 56 42.8
D = 116 km
Victoria
iP 13 56 27.4 c,S,E
iS 13 56 39.5

AUGUST 13
U.S.C.G.S.
51 1/2N, 176W
Aleutian Islands
H = 15 30 42
Resolute
eS 15 44 02
eL 15 46.8

AUGUST 13
44N, 124.5W
Off coast of Oregon
H = 19 07 14.8
Mag 4.1
Alberni
eP 19 08 32.0
D = 578 km
Halifax
eP 19 14 38
e 19 18 26
eS 19 21.0
eSS 19 25 00
Horseshoe Bay
eP 19 08 35 (d)
S 19 09 48
Ottawa
eP 19 14 01
Resolute
eS 19 19 18
eL 19 21 11

Shawinigan Falls
eP 19 14 15
Victoria
eP 19 08 25.1
eS 19 09 31
D = 522 km

AUGUST 14
U.S.C.G.S.
0, 125 1/2E
Molucca Passage
H = 04 39 07
Ottawa
eP' 04 58 23
SKP 05 01 45
Resolute
(PS) 05 06.5
Shawinigan Falls
eP' 04 58 23

AUGUST 14
49°21'N, 123°37'W
Strait of Georgia
H = 21 15 18
Mag 2.7
Alberni
iP 21 15 31.0
iS 21 15 34.3
i 21 15 42.8
D = 83 km
Horseshoe Bay
iP 21 15 21.0 c
iS 21 15 --
D = 21 km
Victoria
iP 21 15 32.2
iS 21 15 50.3
D = 91 km

DOMINION OBSERVATORIES

AUGUST 14
49°18'N, 123°33'W
Strait of Georgia
H = 21 22 12.1
Mag 2.0
Alberni
i 21 22 36.0
Horseshoe Bay
iP 21 22 15.3
e 21 22 44.0
D = 20 km
Victoria
iP 21 22 25.9
iS 21 22 38.7

AUGUST 14
49°20'N, 123°33'W
Strait of Georgia
H = 21 28 31.7
Mag 2.3
Alberni
iP 21 28 47.0
D = 96 km
Horseshoe Bay
eP 21 28 34.9
D = 20 km
Victoria
eP 21 28 46.3
D = 92 km

AUGUST 15
U.S.C.G.S.
23N, 121E
Formosa
H = 08 57 04
Mag 6 3/4 - 7
Alberni
eP 09 09 54.8

Halifax
eP' 09 16 16 c
(SKS) 09 22 20
(SKKS) 09 23 27
iPS 09 26 17
SS 09 32 49
Horseshoe Bay
eP 09 10 49
Ottawa
eP' 09 15 05
Resolute
eP 09 09 15.5 c
iP 09 09 16 d
iPP 09 12 25
iS 09 19 20
iSS 09 24 34
L 09 29 06
Victoria
iP 09 09 58 c,E

AUGUST 15
U.S.C.G.S.
21S, 174W
Tonga Islands
H = 13 14 26
Resolute
eS 13 40.9
PS 13 42 42
SS 13 48.5

AUGUST 15
U.S.C.G.S.
8S, 79 1/2W
Near coast of
Peru
H = 18 28 57
Ottawa
iP 18 38 14 c

Seven Falls
eP 18 38 30
Shawinigan Falls
iP 18 38 25 c

AUGUST 15
U.S.C.G.S.
55N, 162 1/2E
Near east coast of
Kamchatka
H = 18 41 56
Alberni
iP 18 49 56
Ottawa
eP 18 52 57
Resolute
iP 18 49 41 c
eS 18 56 06
eL 18 59.1
Shawinigan Falls
eP 18 52 58
Victoria
eP 18 50 05

AUGUST 15
Canadian Arctic
H = 21 11 43.1
Mag 1.9
Resolute
P_1 21 11 49
S_1 21 11 53.5
D = 36.9 km

SEISMOLOGICAL BULLETIN - 1959

AUGUST 15
U.S.C.G.S.
10N, 85 1/2W
Costa Rica
H = 22 56 15
h = 200 km
Halifax
iP 23 03 38.5 d
Ottawa
iP 23 03 07 c
Resolute
eP 23 06 40
e 23 07 26
Seven Falls
eP 23 03 31 c
Shawinigan Falls
iP 23 03 22 c
Victoria
eP 23 04 52

AUGUST 16
U.S.C.G.S.
21S, 169E
Loyalty Islands region
H = 00 51 40
Mag 6
Halifax
ePKS 01 14 19.5
eSKKS 01 19.8
e(PPS) 01 26 12
e(SS) 01 31 08
G 01 51.8
Ottawa
eP' 01 10 38
Resolute
eP' 01 10.1
PP 01 10.9
SKS 01 17 03
SKKS 01 17.8
S 01 18 40
SS 01 27.0
L 01 38.8
Seven Falls
eP' 01 10 42
Shawinigan Falls
eP' 01 10 42

AUGUST 16
U.S.C.G.S.
22N, 121E
Formosa
H = 01 21 05
Resolute
eP 01 33 15
eS 01 43.5

AUGUST 16
U.S.C.G.S.
18S, 178W
Fiji Islands
H = 09 53 52
h = 350 km
Horseshoe Bay
iP 10 05 24 d
Resolute
SKS 10 17.2
(PS) 10 20.2
(sPS) 10 22.1
SS 10 26.0
Victoria
eP 10 05 22

AUGUST 16
U.S.C.G.S.
37 1/2N, 22E
Greece
H = 18 41 59
Shawinigan Falls
eP 18 53 02

AUGUST 17
U.S.C.G.S.
22 1/2N, 121E
Formosa
H = 01 02 37
Resolute
eP 01 14 47
eS 01 24 42
PPS 01 25 44
SS 01 30.0

AUGUST 17
U.S.C.G.S.
41N, 20E
Albania
H = 01 33 11
Halifax
eP 01 43 14 c
iP 01 43 14.4 d
S 01 51 16
S_cS 01 53 06
eL 02 03.3
Horseshoe Bay
eP 01 47 49
Ottawa
eP 01 44 02
Resolute
eP 01 43 01.5 d
iP 01 43 16.5
eS 01 50 46
Seven Falls
eP 01 43 36
S 01 51 58
Shawinigan Falls
iP 01 43 46 c
Victoria
eP 01 45 54

AUGUST 17
U.S.C.G.S.
41N, 20E
Albania
H = 04 29 00
Ottawa
eP 04 39 49

AUGUST 17
Resolute
e 04 55.1
e 04 57 04
e 04 58.6
e 05 01 40

DOMINION OBSERVATORIES

AUGUST 17
Resolute
e 13 21 09
e 13 39.7
e 13 46 32

AUGUST 17
Resolute
eP 17 06 36.5

AUGUST 17
U.S.C.G.S.
7 1/2S, 156E
Solomon Islands
H = 21 04 40
Mag 7 1/4
Alberni
eP 21 17 41
eL 21 28 12
Banff
eP 21 18 14 d
Halifax
iP' 21 23 57.5 d
e 21 26 04.5
eL 21 43.8
Horseshoe Bay
iP 21 17 45 c
Ottawa
eP' 21 23 36
PP 21 25 08
SKS 21 30 40
PKKP 21 33 43
PS 21 35 10
Resolute
eP 21 18 42
i 21 22 13 c
PP 21 22.9
SKS 21 29 20
iS 21 30.3
PS 21 32 00
PKKP 21 34 46
SS 21 37.6
(PSPS) 21 38.6
(SSS) 21 40 58
L 21 45.1
Saskatoon
eP' 21 21 06
eS 21 31 27
Seven Falls
eP' 21 23 43
PP 21 25 09
Shawinigan Falls
eP' 21 23 41
Victoria
eP 21 17 46

AUGUST 18
U.S.C.G.S.
0, 123E
Northern Celebes
H = 00 30 00
h = 200 km
Ottawa
eP' 00 48 54
Seven Falls
eP' 00 48 55
Shawinigan Falls
eP' 00 48 54

AUGUST 18
U.S.C.G.S.
22 1/2N, 122E
Near east coast
of Formosa
H = 00 34 03
h = 200 km
Alberni
iP 00 46 32
Banff
eP 00 46 54 (c)
Horseshoe Bay
iP 00 46 35 d
Ottawa
eP' 00 52 04
Resolute
iP 00 45 55 d
eS 00 55 46
Seven Falls
eP' 00 52 04
Shawinigan Falls
eP' 00 52 04
Victoria
iP 00 46 44 d

AUGUST 18
Victoria
iP 03 17 15.2
iS 03 17 15.5
Local shock

AUGUST 18
U.S.C.G.S.
42N, 127W
Off coast of Oregon
H = 05 13 30
Alberni
iP 05 16 41.6
e 05 16 45.8
iS 05 16 55.0
Banff
eP 05 16 26.1
Horseshoe Bay
iP 05 15 26.0
iS 05 16 52.6
Resolute
iP 05 20 30
eS 05 26.3
eL 05 28.3
Shawinigan Falls
eP 05 20 51
Victoria
iP 05 16 46.5
iS 05 18 04.9

AUGUST 18
U.S.C.G.S.
44°50'N, 111°05'W
Hebgen Lake, Montana
H = 06 37 15.0
Mag 7.1
Halifax
iP 06 43 57.5 c
iP 06 43 58.5 d
iS 06 49 18.5
Ottawa
iP 06 42 40 d
e 06 46 42
S 06 47 04

Resolute
eP 06 43 31 d
iP 06 43 37
iS 06 48 38
Seven Falls
eP 06 43 08
S 06 47 58
Shawinigan Falls
eP 06 42 56 d
S 06 47 28

AUGUST 18
Montana aftershock
Alberni
eP 07 06 04.2
Banff
iP 07 05 17
Horseshoe Bay
eP 07 05 50.2
Victoria
iP 07 05 46.8

AUGUST 18
Montana aftershock
Banff
P 07 20 57

AUGUST 18
Montana aftershock
Banff
P 07 29 38

AUGUST 18
U.S.C.G.S.
45N, 111W
Hebgen Lake
aftershock
H = 07 54 32
Alberni
iP 07 57 02.3
i 07 58 51.3
Banff
eP 07 55 53
Halifax
iP 08 02 59.5 d
Horseshoe Bay
iP 07 56 50.5 d
iS 07 58 37.8
Resolute
eP 08 02 (35)
Shawinigan Falls
eP 08 02 01
Victoria
iP 07 56 44.8
eS 07 58 35.2
e 08 01 01.7

AUGUST 18
Montana aftershock
Horseshoe Bay
eP 08 08 27.7
Victoria
iP 08 10 55

AUGUST 18
Montana aftershock
Banff
eP 08 20 58

AUGUST 18
Montana aftershock
Banff
P 08 25 56

AUGUST 18
U.S.C.G.S.
44.8N, 110.7W
Hebgen Lake aftershock
H = 08 41 50
Mag 6
Alberni
iP 08 44 20.7
Banff
eP 08 43 32
Horseshoe Bay
eP 08 44 05.5 c
Resolute
eP 08 48 (10)
Saskatoon
iP 08 43 47.7 c
Shawinigan Falls
eP 08 47 31
Victoria
iP 08 44 02.2

AUGUST 18
Montana aftershock
Banff
eP 08 54 56
Halifax
iP 08 59 11.5 c
i 08 59 30.5
Victoria
P 08 55 58

AUGUST 18
Montana aftershock
Horseshoe Bay
P 09 01 46

AUGUST 18
Montana aftershock
Banff
P 09 04 27

AUGUST 18
Resolute
e(P) 09 18 (36)

AUGUST 18
Montana aftershock
Banff
P 09 24 53

AUGUST 18
Montana aftershock
Horseshoe Bay
P 09 49 29

DOMINION OBSERVATORIES

AUGUST 18
Montana aftershock
Banff
P 10 13 17
Horseshoe Bay
e 10 20 48

AUGUST 18
Montana earthquake
Banff
P 10 26 30
Victoria
P 10 26 59

AUGUST 18
Resolute
eP 10 39 34
i 10 41 08

AUGUST 18
Montana earthquake
Banff
P 10 45 09
Victoria
P 10 43 45

AUGUST 18
Resolute
eP 10 57 15
i 10 59 50

AUGUST 18
Montana earthquake
Banff
P 10 58 30

AUGUST 18
U.S.C.G.S.
44.8N, 111.1W
Hebgen Lake aftershock
H = 11 03 52
Mag 5 1/2 - 5 3/4
Alberni
P 11 05 37
Banff
P 11 05 33
Halifax
iP 11 10 27.5 c
eS 11 15.8
eL 11 19.8
Horseshoe Bay
P 11 05 24
Ottawa
iP 11 09 13 c
Resolute
eP 11 10 (05)
eS 11 15 08
eL 11 18.2
Shawinigan Falls
eP 11 09 48
Victoria
P 11 05 20

AUGUST 18
Montana earthquake
Banff
P 12 08 45
Horseshoe Bay
P 12 12 22
Victoria
P 12 12 20

AUGUST 18
Montana earthquake
Banff
P 12 23 05

AUGUST 18
Montana earthquake
Banff
P 12 50 08
Horseshoe Bay
e 12 59 27

AUGUST 18
Montana earthquake
Banff
P 13 21 45
Horseshoe Bay
P 13 22 02
Victoria
P 13 22 02

AUGUST 18
Montana earthquake
Banff
P 14 35 46

AUGUST 18
Montana earthquake
Banff
P 14 41 56

AUGUST 18
Montana earthquake
Horseshoe Bay
P 15 25 39
Victoria
P 15 25 33

AUGUST 18
U.S.C.G.S.
44°53'N, 110°44'W
Hebgen Lake aftershock
H = 15 26 06.5
Mag 6 1/2
Alberni
P 15 28 39

SEISMOLOGICAL BULLETIN - 1959

Halifax
iP 15 32 45 d
e(PP) 15 33 37
iP_cP 15 35 32
iS 15 38 05
iSSS 15 41 01
eL 15 41.8
Horseshoe Bay
P 15 28 39
Ottawa
eP 15 31 30
e 15 35 24
S 15 35 50
Resolute
eP 15 32 22
iS 15 37 28
iL 15 40.3
Seven Falls
eP 15 31 58
S 15 36 38
Shawinigan Falls
eP 15 31 46
Victoria
P 15 28 24

AUGUST 18
Montana earthquake
Banff
P 15 37 29
Victoria
P 15 38 03

AUGUST 18
Montana earthquake
Banff
P 15 49 28
Horseshoe Bay
P 15 49 57

AUGUST 18
Montana earthquake
Banff
P 16 13 10
Horseshoe Bay
P 16 15 22
Victoria
P 16 15 19

AUGUST 18
Montana earthquakes
Horseshoe Bay
P 16 24 25
Resolute
iP 16 27 15
e 16 28 56
Victoria
P 16 24 22

AUGUST 18
Montana earthquakes
Horseshoe Bay
P 16 27 41
Victoria
P 16 28 43

AUGUST 18
Montana earthquakes
Banff
P 17 05 51
Horseshoe Bay
P 17 06 24
Victoria
P 17 06 19

AUGUST 18
Montana earthquake
Banff
P 17 30 06
Horseshoe Bay
P 17 32 43

AUGUST 18
Montana earthquake
Banff
P 17 54 23

AUGUST 18
47.9N, 120.1W
Chelan, Washington
U.S.A.
H = 18 07 33.4
Horseshoe Bay
iP 18 08 15.1
D = 288 km
Victoria
iP 18 08 11.6
iS 18 08 43.2
D = 258 km

AUGUST 18
Resolute
eP 18 08 14

AUGUST 18
Montana earthquake
Horseshoe Bay
P 19 32 22

AUGUST 18
Montana earthquake
Horseshoe Bay
P 20 11 43
Victoria
P 20 11 38

AUGUST 18
Montana aftershock
Horseshoe Bay
P 20 16 05
Victoria
P 20 17 01

AUGUST 18
Resolute
eP 20 24 (25)
e 20 25 08
e 20 29 (31)

AUGUST 18
U.S.C.G.S.
11S, 162 1/2E
Solomon Islands
H = 21 13 09
h = 200 km
Resolute
e 21 38 53
e 21 41.0

DOMINION OBSERVATORIES

AUGUST 18
Montana earthquake
Horseshoe Bay
P 21 37 20
Victoria
P 21 36 15

AUGUST 18
Montana earthquake
Banff
P 21 45 55

AUGUST 18
Resolute
eP 21 51 07

AUGUST 18
Montana earthquake
Banff
P 21 52 48
Horseshoe Bay
P 21 53 46
Victoria
P 21 53 39

AUGUST 18
Resolute
eP 22 07 13
e 22 07.6
e 22 09.6

AUGUST 18
Montana earthquake
Banff
P 23 24 50

AUGUST 18
Montana earthquake
Banff
P 23 48 17
Horseshoe Bay
P 23 48 46
Victoria
P 23 48 11

AUGUST 18
Montana earthquake
Banff
P 23 58 47

AUGUST 19
Resolute
eP 00 01 41.5
e 00 02.6

AUGUST 19
Montana earthquake
Banff
P 00 58 16
Victoria
P 00 58 31

AUGUST 19
Montana earthquake
Victoria
P 02 30 46

AUGUST 19
45N, 111 1/2W
Hebgen Lake aftershock
H = 04 04 03
Mag 6 (Berk.)
Alberni
iP 04 06 27.9
S 04 09 13.4
Banff
eP 04 04 54
Halifax
iP 04 10 48.5 c
eS 04 16 11
e 04 17.6
Horseshoe Bay
iP 04 06 12.9
Ottawa
eP 04 09 32
S 04 14 00
L 04 16 07
Resolute
eP 04 10 20.5
eS 04 15 20
L 04 18.2

Saskatoon
eP 04 06 20
e 04 08 16
Seven Falls
eP 04 10 00
S 04 14 46
Shawinigan Falls
eP 04 09 48
Victoria
iP 04 06 14.1 c,N,W
eS 04 08 25.3

AUGUST 19
Montana earthquake
Banff
P 04 05 49

AUGUST 19
Montana earthquake
Banff
P 05 35 49

AUGUST 19
Montana earthquake
Alberni
P 05 51 30
Banff
P 05 50 41
Horseshoe Bay
P 05 51 15
Victoria
P 05 51 16

AUGUST 19
Resolute
e 06 02 53
e 06 04 18

SEISMOLOGICAL BULLETIN - 1959

AUGUST 19
U.S.C.G.S.
21 1/2N, 121E
South of Formosa
H = 07 08 28
Resolute
iP 07 20 41 d
e 07 28 40

AUGUST 19
Montana earthquake
Banff
P 07 14 12
Victoria
P 07 14 39

AUGUST 19
Resolute
iP 08 13 58.5 d

AUGUST 19
Montana earthquake
Banff
P 09 09 05

AUGUST 19
Resolute
eP 09 23 (27)

AUGUST 19
Montana earthquake
Alberni
P 09 30 18
Banff
P 09 29 36
Victoria
P 09 30 06

AUGUST 19
Montana earthquake
Banff
P 11 05 23
Victoria
P 11 05 49

AUGUST 19
Resolute
e 11 17 27
e 11 19.5
e 11 21.4

AUGUST 19
Montana earthquake
Banff
P 11 22 08

AUGUST 19
U.S.C.G.S.
45.0N, 111.4W
Hebgen Lake aftershock
H = 19 06 29
Resolute
eP 19 12 47
P_cP 19 14 58
eS 19 18 10
e 19 22 19
eL 19 24.4

AUGUST 19
Montana earthquake
Victoria
P 19 08 40

AUGUST 19
Montana earthquake
Victoria
P 19 11 07

AUGUST 19
U.S.C.G.S.
45N, 110 1/2W
Hebgen Lake aftershock
H = 19 43 47.5
Alberni
P 19 46 20
Horseshoe Bay
P 19 46 07
Resolute
eS 19 55 11
eL 19 56 40
e 19 59.5
Victoria
P 19 46 05

AUGUST 19
U.S.C.G.S.
45N, 111 1/2W
Hebgen Lake aftershock
H = 21 45 57
Alberni
P 21 48 27
Horseshoe Bay
P 21 48 14
Resolute
eP 21 52 (14)
eS 21 57.2
e 22 01.2
eL 22 02.3
Victoria
P 21 48 10

AUGUST 20
U.S.C.G.S.
10 1/2S, 161 E
Solomon Islands
H = 01 59 06
Resolute
PS 02 26.8
SS 02 32.6
L 02 41.5

AUGUST 20
Montana earthquake
Victoria
P 07 13 31

AUGUST 20
U.S.C.G.S.
7S, 85W
Off coast of Peru
H = 07 18 34
Lillooet
eP 07 29 24
Ottawa
eP 07 27 50

DOMINION OBSERVATORIES

Resolute
eP 07 30 53 (d)
eS 07 40.9
SS 07 46.3
SSS 07 49 (40)
eL 07 52.0
Seven Falls
eP 07 28 04
Shawinigan Falls
eP 07 28 03
Victoria
eP 07 29 14.3
eL 07 51.1

AUGUST 20
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 10 59 11
Resolute
e 11 13.7
e 11 15.0
eL 11 17.3
Saskatoon
iP 11 03 35 c
Victoria
eP 11 01 24.8
eS 11 04 02.2

AUGUST 20
U.S.C.G.S.
29S, 78E
Indian Ocean
H = 12 20 08
Resolute
eP' 12 39 48
PPPS 12 55.5
(S_cSS_cS) 13 02.1

AUGUST 20
Resolute
e 14 39 10
e 14 39 30

AUGUST 20
Montana earthquake
Banff
P 17 39 18

AUGUST 20
Resolute
eP 17 51 46

AUGUST 20
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 19 11 27
Alberni
iP 19 13 52.5
eS 19 16 38.1
Banff
eP 19 13 10
Resolute
eP 19 17 48
eL 19 23.7
Shawinigan Falls
eP 19 17 14
Victoria
iP 19 13 38.2
eS 19 16 07.6

AUGUST 20
Montana earthquake
Banff
P 22 57 10
Victoria
P 22 58 42

AUGUST 20
48°30'N, 123°39'W
South Vancouver Island
H = 23 07 19.6
Mag 1.8
Alberni
eP 23 07 38.9
iS 23 07 54.1
D = 120 km
Resolute
eP 23 12.42
Victoria
iP 23 07 22.3(c),S,W
iS 23 07 23.9
D = 17 km

AUGUST 21
U.S.C.G.S.
38 1/2N, 104E
Kansu Province, China
H = 07 13 19
Resolute
eP 07 24 09

AUGUST 21
U.S.C.G.S.
50 1/2S, 139 1/2E
Indian Ocean, south of Australia
H = 08 03 15
Mag 5 3/4 - 6
Ottawa
eP_1' 08 23 17
Resolute
iP' 03 22 58 c
i 08 25 18
SS 08 45.5
Seven Falls
eP_1' 08 23 20

AUGUST 21
Montana earthquake
Banff
P 08 04 39

AUGUST 21
U.S.C.G.S.
50 1/2S, 140E
Indian Ocean, south of Australia
H = 09 37 49
Ottawa
eP_1' 09 57 47

Resolute
iP' 09 57 32 c
Seven Falls
eP_1' 09 57 58

AUGUST 21
Montana earthquake
Banff
P 11 02 51

AUGUST 21
Banff
eP 13 09 27
Resolute
eP 13 23 (46)
e 13 23 56.5

AUGUST 21
Montana earthquake
Banff
P 15 34 26

AUGUST 21
Alberni
iP 17 52 49.3
iS 17 52 55.4
D = 50 km
Victoria
P 17 52 52
D = 68 km
Local shock

AUGUST 21
Montana earthquake
Banff
P 17 55 52

AUGUST 22
46°57'N, 70°47'W
In the St. Lawrence River, just east of the Island of Orleans, Que.
H = 03 52 30.4
Mag 3.2
Montreal
P_1 03 53 13.7
S_1 03 53 46.8
D = 271 km
Ottawa
S_1 03 54 27
D = 416 km
Seven Falls
P_1 03 52 33.5
S_1 03 52 35.9
D = 19.7 km
Shawinigan Falls
P 03 52 56.6
i_1 03 53 02.6
S_1 03 53 16.3
D = 161 km

AUGUST 22
Banff
iP 04 53 22.4
iS 04 53 42.0
D = 157 km
Local shock -

AUGUST 22
Montana earthquake
Banff
P 06 58 54

AUGUST 22
Resolute
e 07 12 22
e 07 13 04

AUGUST 22
Montana earthquake
Banff
P 08 59 25

AUGUST 22
Resolute
e 09 13 (37)

AUGUST 22
Banff
eP 15 28 30

AUGUST 22
Resolute
e 15 43 12

AUGUST 22
Montana earthquake
Alberni
e 19 31 08.6
Banff
eP 19 27 40
Horseshoe Bay
e 19 30 37
Victoria
e 19 28 08.7

AUGUST 22
Resolute
e 19 42 04

AUGUST 22
U.S.C.G.S.
17 1/2S, 69 1/2W
Peru - Chile border
H = 21 18 02
h = 150 km
Banff
eP 21 39 55
Resolute
eP 21 41 05
Shawinigan Falls
eP 21 38 12
Victoria
e 21 40 08

DOMINION OBSERVATORIES

AUGUST 22
48°33'N, 122°50'W
Whidbey Island
H = 23 42 54.2
Mag 2.3
Alberni
eP 23 43 21.4
S 23 43 43.2
D = 170 km
Horseshoe Bay
iP 23 43 10.8 d
iS 23 43 23.8
D = 104 km
Victoria
iP 23 43 02.4 d,S
iS 23 43 08.2
D = 52 km

AUGUST 23
Resolute
e 08 32 32

AUGUST 23
Alberni
iP 15 03 00.6
iS 15 03 16.9
Local shock

AUGUST 23
U.S.C.G.S.
35 1/2N, 3W
Mediterranean Sea,
north of Spanish Morocco
H = 22 21 30
Banff
eP 22 33 13
Ottawa
eP 22 30 58
Resolute
eP 22 31 (12)
eP 22 31 23
eS 22 39.1
SS 22 43.1
eL 22 48.0
Seven Falls
eP 22 30 30
Shawinigan Falls
iP 22 30 41 d

AUGUST 23
Montana earthquake
Alberni
eP 22 42 24.0
e 22 45 25
Banff
eP 22 41 38
Lillooet
eP 22 41 23
Victoria
iP 22 42 08.1 c
eS 22 44 33.9

AUGUST 23
Montana earthquake
Victoria
iP 22 57 12.7 d,S
i 22 57 20.3
i 22 57 24.7

AUGUST 24
Victoria
iP 01 05 25.0 d,S
iS 01 06 29.4
Local shock

AUGUST 24
Lillooet
eP 06 03 53
Victoria
eP 06 01 54 (c)

AUGUST 24
U.S.C.G.S.
53N, 159 1/2E
Kamchatka
H = 12 29 20
Alberni
eP 12 37 41
Banff
eP 12 38 11
Ottawa
eP 12 40 35
Resolute
iP 12 37 24 d
(P_cP) 12 39 11
L 12 47.2
Shawinigan Falls
eP 12 40 39
Victoria
eP 12 37 49 d

AUGUST 24
Montana earthquake
Alberni
e 15 13 08.7
Banff
eP 15 10 02
Horseshoe Bay
e 15 12 31
Lillooet
e 15 10 38
Victoria
eP 15 10 08.5
eS 15 12 35.9

AUGUST 24
U.S.C.G.S.
10 1/2S, 161 1/2E
Solomon Islands
foreshock
H = 15 41 40
Banff
eP 15 55 03
Ottawa
eP' 16 00 33
Resolute
SKS 16 06 22
eS 16 07 32
PS 16 09.2
e 16 09.8
SS 16 14.8
Victoria
eP 15 54 34

SEISMOLOGICAL BULLETIN - 1959

AUGUST 24
48°04'N, 124°19'W
Olympic Mountains
H = 17 29 17
Mag 2.4
Alberni
eP 17 29 39.9
eS 17 29 56.0
D = 138 km
Horseshoe Bay
eP 17 29 43.7
eS 17 30 01.7
D = 162 km
Victoria
iP 17 29 31.3 d,N,W
S 17 29 44.1
D = 84 km

AUGUST 24
U.S.C.G.S.
10 1/2S, 161E
Solomon Islands
H = 21 30 46
Mag 7
Alberni
eP 21 43 36
Banff
eP 21 41 54
e 21 43 06
Halifax
eP' 21 49 56.5
PP 21 52 05
iSS 22 09 23
Horseshoe Bay
e 21 43 07
Ottawa
eP' 21 49 37
PP 21 51 08
PS 22 01 02
Resolute
eP 21 44 50
PP 21 49 10
SKS 21 55 40
iS 21 56 44
PS 21 58 18
iSS 22 04.1
iSSS 22 07.6
iL 22 13.8
Saskatoon
eP 21 55 18 (d)
Victoria
e 21 40 31
eP 21 42 58
e 21 43 01
e 21 43 44
iS 21 54 21
i 21 54 36

AUGUST 25
Horseshoe Bay
eP 00 49 25
Victoria
eP 00 49 26.8 c
e 00 49 58.0
eS 00 51 57.7

AUGUST 25
U.S.C.G.S.
Northern Chile
H = 12 24 18
Ottawa
eP 12 35 50
Resolute
eS 12 50 10
SS 12 57 18
(SSS) 13 01.5
Seven Falls
eP 12 35 59

AUGUST 25
U.S.C.G.S.
6 1/2S, 155E
Solomon Islands
H = 13 40 06
Ottawa
eP' 13 59 01 d
Resolute
PS 14 07.4
Shawinigan Falls
eP' 13 59 03 c

AUGUST 25
U.S.C.G.S.
27 1/2S, 71W
Northern Chile
H = 17 51 49
Ottawa
eP 18 03 16
Seven Falls
eP 18 03 26

AUGUST 25
Resolute
eP 22 24 25.5
iP 22 24 27
e 22 25 21
i 22 25 31
e 22 28.4

AUGUST 26
U.S.C.G.S.
5 1/2S, 153 1/2E
New Britain region
H = 04 53 00
Ottawa
eP' 05 11 57

AUGUST 26
Ottawa
iP 06 50 13 c

AUGUST 26
U.S.C.G.S.
18N, 94 1/2W
Vera Cruz, Mexico
H = 08 25 30
Alberni
iP 08 33 05 c
Banff
iP 08 32 43 d
e 08 34 12
Halifax
iP 08 32 43 c
ePP 08 34 10
iS 08 38 26
i(SS) 08 41 21

Horseshoe Bay
iP 08 32 56 c
PP 08 33 13
Lillooet
iP 08 32 58 c
Ottawa
iP 08 31 54 c
S 08 36 50
SS 08 39 00
Resolute
eP 08 35 14 c
iP_cP 08 36 24
PP 08 37.4
PPP 08 38 42
iS 08 43 04
L 08 48.0
Saskatoon
iP 08 31 27 d
PP 08 32 29
S_cS 08 41 57
SS 08 38 59
Seven Falls
eP 08 32 24 c
S 08 37 51
Shawinigan Falls
iP 08 32 14 c
S 08 37 33
SS 08 40 46
Victoria
iP 08 32 55 c, W

AUGUST 26
U.S.C.G.S.
51N, 132W
Queen Charlotte Islands region
H = 10 27 41
Halifax
eP 10 36.0
ePPP 10 38 36
e 10 41 16
i(S) 10 42 24
i(SS) 10 45 31
Ottawa
eP 10 34 45
S 10 40 20
Resolute
iP 10 33 34.5 d
i 10 34 05.5
iS 10 38 36
iL 10 40 22

Seven Falls
eP 10 35 05
S 10 41 01
Shawinigan Falls
eP 10 34 57

AUGUST 26
Ottawa
iP 11 06 43 d
Shawinigan Falls
eP 11 06 40

AUGUST 26
Alberni
eP 11 33 52
Horseshoe Bay
eP 11 34 06 d
Lillooet
iP 11 35 13
Victoria
eP 11 34 13

AUGUST 26
Alberni
eP 11 49 57
Lillooet
iP 11 50 34 d
Victoria
eP 11 50 16

AUGUST 26
U.S.C.G.S.
50 1/2N, 130 1/2W
Queen Charlotte Islands region
H = 13 01 26
Alberni
iP 13 02 24.4
Banff
eP 13 03 47 c
Horseshoe Bay
iP 13 02 45 c
(PP) 13 04 13

Resolute
eP 13 07 (21)
eS 13 12 16
e 13 16 (14)
e 13 18 42
Saskatoon
eP 13 09 25
Victoria
eP 13 02 41.7 c, E

AUGUST 26
Alberni
iP 15 45 02.4
iS 15 45 15.5
Victoria
iP 15 44 49.9 c
iS 15 44 53.4
Local shock

AUGUST 26
Alberni
iP 16 44 15.9
Horseshoe Bay
iP 16 44 28.5

AUGUST 26
Alberni
eP 19 00 28

AUGUST 26
Alberni
iP 19 57 40.3
Horseshoe Bay
eP 19 57 52

AUGUST 27
U.S.C.G.S.
5S, 150 1/2E
New Britain region
H = 05 05 49
h = 300 km
Resolute
eP 05 01 06.5 (c)
iP 05 01 07 d

AUGUST 27
Alberni
e 06 35 06

AUGUST 27
U.S.C.G.S.
0, 122E
Northern Celebes
H = 07 50 28
h = 200 km
Ottawa
eP' 08 09 26
Resolute
sPS 08 18.3
SS 08 22.8
Seven Falls
eP' 08 09 26

AUGUST 27
Alberni
e 12 04 52.2
Banff
eP 12 01 25
Horseshoe Bay
eP 12 04 30
Victoria
eP 12 04 30.6

AUGUST 27
Alberni
eP 13 33 38.7
i 13 33 53.3
i 13 34 58.8
Horseshoe Bay
eP 13 33 46
Victoria
eP 13 33 57.5

AUGUST 27
Resolute
e 14 06 58
e 14 09 16
e 14 13.4
e 14 13 40

AUGUST 27
Resolute
i(P) 15 00 45 c

AUGUST 27
Alberni
e 21 04 34.6
Horseshoe Bay
eP 21 04 50

AUGUST 27
Montana earthquake
Alberni
e 23 38 49.5
Banff
eP 23 34 38
Horseshoe Bay
eP 23 37 (26)
Victoria
e(P) 23 38 37.2

AUGUST 27
Resolute
i 23 50 04

AUGUST 27
U.S.C.G.S.
25N, 96E
Northern Burma
H = 23 53 10
Resolute
eS 24 15.4
SS 24 20.5
L 24 25.2

AUGUST 28
U.S.C.G.S.
48N, 155E
Kurile Islands
H = 01 56 56
Ottawa
eP 02 08 51 d
Resolute
eP 02 05 46
eS 02 12.6

AUGUST 28
U.S.C.G.S.
9S, 158E
Solomon Islands
H = 02 37 00
h = 150 km
Resolute
SS 03 09.9
G 03 18.7

AUGUST 28
Alberni
iP 09 42 51.3

AUGUST 28
Alberni
eP 09 53 40.8

AUGUST 28
Lillooet
eP 10 25 16
Victoria
eP 10 25 54.8

AUGUST 28
U.S.C.G.S.
63 1/2N, 149W
Central Alaska
H = 12 07 44
Alberni
eP 12 12 12
Halifax
iP 12 16 34 c
Horseshoe Bay
iP 12 12 15 d
Lillooet
eP 12 12 37
Ottawa
iP 12 15 48 c
Resolute
eP 12 12 (32)
eS 12 16 32
eL 12 17.8

DOMINION OBSERVATORIES

Saskatoon
iP 12 17 30 c
iS 12 21 56
Seven Falls
eP 12 15 54
Victoria
iP 12 12 24 c,S,E

AUGUST 28
Alberni
iP 15 24 09

AUGUST 28
U.S.C.G.S.
17S, 167E
New Hebrides Islands
H = 15 52 10
Resolute
eS 16 18.7
PS 16 20.5
PPS 16 21.8

AUGUST 28
Victoria
eP 21 21 54.2 c

AUGUST 29
U.S.C.G.S.
Solomon Islands region
H = 03 21 07
Resolute
e(SS) 03 54 18
eL 04 03.8

AUGUST 29
Alberni
e 06 06 25.4
Victoria
eP 06 06 35.2

AUGUST 29
Montana earthquake
Horseshoe Bay
e 08 18 52
Lillooet
eP 08 16 33
Victoria
eP 08 16 14.6
eP 08 16 16.2

AUGUST 29
U.S.C.G.S.
Solomon Islands
H = 10 52 27
Resolute
e 11 03 (42)

AUGUST 29
Montana earthquake
Lillooet
eP 12 54 32
Victoria
eP 12 54 15.8
eP 12 54 17.8
eP 12 54 22.3

AUGUST 29
U.S.C.G.S.
52N, 106 1/2E
Lake Baikal, U.S.S.R.
H = 17 03 10
Mag 6 1/2 - 6 3/4
Alberni
eP 17 14 22.8
Banff
iP 17 14 34 c
Halifax
iP 17 15 38 d
e 17 17 38
iS 17 25 57
e 17 28.0
eSS 17 31.0
eSSS 17 34.0
Horseshoe Bay
iP 17 14 23
Lillooet
iP 17 14 50
Ottawa
iP 17 15 35 d
pP 17 16 10
S 17 25 48
SS 17 31 20
Resolute
iP 17 12 24 d
P_cP 17 13 38
PP 17 14 16
iS 17 19 50
SS 17 23 44
L 17 27.2
Saskatoon
iP 17 14 34
e 17 24 51
Seven Falls
P 17 15 26
S 17 25 34
Victoria
iP 17 14 29.2 d,N,W

AUGUST 30
U.S.C.G.S.
8S, 156 1/2E
Solomon Islands
H = 02 53 08
Alberni
e 03 07 31
Horseshoe Bay
eP 03 07 47
PP 03 09 49
Lillooet
eP 03 07 53
Victoria
eP 03 07 49.6
e 03 08 11.2
e 03 09 21.2

AUGUST 30
U.S.C.G.S.
35 1/2N, 3W
Mediterranean Sea,
north of Spanish
Morocco
H = 03 24 54
Ottawa
eP 03 34 23

Resolute
eS 03 42 32
Seven Falls
eP 03 33 56

AUGUST 30
Alberni
e 06 01 33.7

AUGUST 30
U.S.C.G.S.
63N, 150W
Central Alaska
H = 13 44 07
Alberni
eP 13 48 38
Horseshoe Bay
eP 13 48 33
Resolute
e(P) 13 49 00
eS 13 52 52
eL 13 55 46
Victoria
eP 13 48 46.9 d

AUGUST 30
Resolute
eP 14 48 36.5 d
iP 14 48 37 c
e 14 56 08

AUGUST 30
Alberni
iP 16 23 50.4
Horseshoe Bay
iP 16 24 05
Lillooet
eP 16 24 07
Victoria
iP 16 24 04.5 d,W

AUGUST 30
U.S.C.G.S.
36 1/2S, 78 1/2E
Indian Ocean
H = 21 45 07
Halifax
iP_2' 22 05 09 (d)
e 22 06 37
eSS 22 28 07
eL 22 59.6
Resolute
eP' 22 04 55
e 22 06 15
(PKS) 22 08 24
(SKS) 22 12.2
(SKKS) 22 14 36
SKSP 22 18 06
PPS 22 20.3
PPPS 22 21.2
SS 22 25.8

AUGUST 30
U.S.C.G.S.
37N, 68 1/2E
Afghanistan - Tadzhik
border
H = 22 57 00
Resolute
eP 23 08 06

AUGUST 30
U.S.C.G.S.
53N, 106E
Lake Baikal
aftershock
H = 23 36 42
Ottawa
eP 23 49 05
Resolute
iP 23 45 53.5 c
eP 23 46 01
e 23 46 30
Seven Falls
eP 23 48 57

AUGUST 31
Montana earthquake
Horseshoe Bay
eP 01 59 17
Lillooet
eP 01 58 25
Victoria
eP 01 58 27.5

AUGUST 31
Alberni
e(P) 03 13 11.7
e 03 17 07.9

AUGUST 31
Lillooet
eP 06 15 33

AUGUST 31
U.S.C.G.S.
52 1/2N, 171W
Fox Islands,
Aleutian Islands
H = 09 05 56
Alberni
iP 09 12 02
Banff
iP 09 12 42 c
Horseshoe Bay
eP 09 12 02
Ottawa
iP 09 15 54 c
Resolute
eP 09 13 04
e 09 13 46
P_cP 09 15 28
L 09 21.3
Seven Falls
eP 09 16 02
Victoria
iP 09 12 10.9 c,N,E

AUGUST 31
Resolute
e 14 17 28
e 14 21.0

DOMINION OBSERVATORIES

SEPTEMBER 1
Resolute
i(P) 00 20 20
i 00 22 12

SEPTEMBER 1
U.S.C.G.S.
11S, 74 1/2W
Peru
H = 00 52 04
Halifax
P 01 01 50
eS 01 09 40
Lillooet
eP 01 03 46
Ottawa
eP 01 01 48
Resolute
eP 01 04 55
eS 01 15 26
(PS) 01 16 50
(SS) 01 20 44
L 01 32.8
Seven Falls
eP 01 02 01

SEPTEMBER 1
Resolute
e 01 13 40

SEPTEMBER 1
Halifax
P 07 33 04
i 07 36.9
Ottawa
eP 07 34 09
Resolute
e(P) 07 34 (35)
e(S) 07 39 46
eL 07 42.0
Seven Falls
eP 07 33 33

SEPTEMBER 1
U.S.C.G.S.
20N, 64 1/2W
North of Puerto Rico
H = 10 49 43
Alberni
eP 10 59 22
Banff
eP 10 58 42
Halifax
iP 10 55 10
iS 10 59 33
Lillooet
iP 10 59 11 d
Ottawa
eP 10 55 29
Resolute
eP 10 59 34
eP 10 59 41
PP 11 01 33
eS 11 07 14
SS 11 11 32
eL 11 15.5
Seven Falls
eP 10 55 36
Victoria
eP 10 59 23 (d)

SEPTEMBER 1
U.S.C.G.S.
41 1/2N, 20E
Albania
H = 11 37 42
Alberni
e 11 50 19.1
Banff
eP 11 49 57 d
Halifax
iP 11 47 40 c
eS 11 55 43
Horseshoe Bay
iP 11 50 14 d
Lillooet
eP 11 50 27 c
Ottawa
eP 11 48 28
Resolute
eP 11 47 28.5 c
iP 11 47 29 d
iP 11 47 40
iP_cP 11 48 16
PP 11 49 14
eS 11 55.4
S_cS 11 57 18
L 12 01.5
Saskatoon
eL 12 13 16
Seven Falls
eP 11 48 02 c
Victoria
iP 11 50 21 c, NE

SEPTEMBER 1
Resolute
iP 14 28 59 c

SEPTEMBER 1
Montana earthquake
Banff
eP 19 21 05
Horseshoe Bay
eP 19 23 45
Lillooet
eP 19 23 01
Resolute
e 19 31 (21)
Victoria
eP 19 23 59

SEPTEMBER 1
Montana earthquake
Banff
eP 20 34 07
Lillooet
eP 20 35 30.5

SEPTEMBER 1
Resolute
e 20 48 (25)

SEISMOLOGICAL BULLETIN - 1959

SEPTEMBER 2
Lillooet
eP 01 58 17

SEPTEMBER 2
47.9N, 123.0W
Olympic Mountains
H = 02 35 44
Mag 2.5
Alberni
eP 02 36 21.0
S 02 36 43.2
D = 241 km
Horseshoe Bay
iP 02 36 09.7 c
iS 02 36 24.2
D = 160 km
Victoria
iP 02 35 55.2 c, SW
iS 02 36 03.7
D = 69 km

SEPTEMBER 2
Lillooet
eP 05 29 05

SEPTEMBER 2
U.S.C.G.S.
60N, 151W
Kenai Peninsula
H = 08 03 00
Alberni
eP 08 07 19.8
Banff
eP 08 07 52
Horseshoe Bay
iP 08 07 24 d
Lillooet
eP 08 07 21
Ottawa
eP 08 11 18
Resolute
eP 08 08 (25)
iP 08 08 43
iS 08 13 09
L 08 18.3
Victoria
eP 08 07 24 d

SEPTEMBER 2
U.S.C.G.S.
20N, 65W
Puerto Rico
aftershock
H = 09 31 36
Halifax
iP 09 37 01
Ottawa
eP 09 37 22
Resolute
eS 09 49.4
eL 10 01.8
Seven Falls
eP 09 37 28

SEPTEMBER 2
U.S.C.G.S.
55N, 164E
Near east coast of Kamchatka
H = 12 52 20
Resolute
eS 13 06 20
eL 13 09.2
S_cS 13 10.1

SEPTEMBER 2
Resolute
e 22 22 38
e 22 24.2

SEPTEMBER 3
U.S.C.G.S.
41N, 20E
Albania
H = 04 02 00
Resolute
eP 04 12 16
eS 04 19.8

SEPTEMBER 3
U.S.C.G.S.
4 1/2S, 123E
Celebes Islands
H = 06 27 30
Halifax
PP 06 50 02
PKS 06 50 40
Ottawa
eP' 06 46 57
Resolute
PP 06 46 (12)
e 06 46 28
PPP 06 48 16
SKS 06 52 24
eS 06 53.7
e 06 54 42
PS 06 55 28
(PPS) 06 56 40
SS 07 01.3
L 07 14.0

SEPTEMBER 3
U.S.C.G.S.
15S, 175 1/2W
Fiji Islands region
H = 21 48 56
Resolute
PS 22 16 08
SS 22 21 44
(PSPS) 22 22 28

SEPTEMBER 4
Resolute
e 00 40 32
e 00 45.0

SEPTEMBER 4
U.S.C.G.S.
4 1/2S, 152E
New Britain
H = 03 52 55
Ottawa
eP' 09 11 43
Resolute
eP 09 07 18

DOMINION OBSERVATORIES

SEPTEMBER 4
U.S.C.G.S.
31 1/2S, 177W
Kermadec Islands
H = 12 30 00
Resolute
eS 12 58.1
SS 13 06 20

SEPTEMBER 4
Resolute
e 16 58.3
e 16 58 30

SEPTEMBER 4
U.S.C.G.S.
21 1/2N, 142E
Mariana Islands
H = 17 47 15
Resolute
eP 17 58 49

SEPTEMBER 4
U.S.C.G.S.
1S, 24W
Atlantic Ocean
H = 18 26 41
Ottawa
eP 18 37 24
Resolute
eP 18 39 24 d
iP 18 39 24.5 c
Seven Falls
eP 18 37 08

SEPTEMBER 4
U.S.C.G.S.
52 1/2N, 168 1/2W
Fox Islands,
Aleutian Islands
H = 19 22 32
Resolute
eP 19 29 (34)

SEPTEMBER 4
U.S.C.G.S.
47S, 75W
Near coast of
Southern Chile
H = 23 22 56
Resolute
SS 24 00.1
SSS 24 04 38
G 24 13.5

SEPTEMBER 5
Resolute
eP 01 36 (25)

SEPTEMBER 5
U.S.C.G.S.
1N, 129E
Halmahera Island
region
H = 06 07 38
Halifax
PKS 06 30 32
Ottawa
eP' 06 26 48
Resolute
eP 06 21 32
iP 06 21 36
PP 06 25 34
SKS 06 32 08
S 06 33.2
PS 06 34 36
SS 06 39.6
G 06 49.7
Seven Falls
eP' 06 28 58

SEPTEMBER 5
U.S.C.G.S.
62S, 156E
Balleny Islands
region
H = 07 00 26
Ottawa
eP' 07 20 13
Resolute
eP' 07 20 40

SEPTEMBER 5
Victoria
iP 11 40 52

SEPTEMBER 5
Montana earthquake
Banff
eP 12 05 24
Horseshoe Bay
eP 12 08 41
Lillooet
eP 12 07 46
Victoria
eP 12 08 27

SEPTEMBER 5
Resolute
eP 12 19 (24)
i 12 19 39
e 12 19 40

SEPTEMBER 5
Ottawa
eP 15 50 11

SEPTEMBER 5
U.S.C.G.S.
1N, 129E
Halmahera aftershock
H = 15 34 44
Ottawa
eP' 15 53 59
Resolute
eP 15 48 33
e 15 50 (15)
e 15 58 46
eSKS 15 59 18
eS 16 00.1
PS 16 01 32
SS 16 06.8

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SEPTEMBER 5
Montana earthquake
Banff
eP 18 12 34

SEPTEMBER 5
Lillooet
eP 18 15 46

SEPTEMBER 5
U.S.C.G.S.
51 1/2N, 179 1/2E
Rat Islands, Aleutian Islands
H = 21 12 02
Resolute
eP 21 19 (41)
iP 21 19 46
e 21 20 31
PPP 21 21 44
eS 21 26 08
L 21 34.2
Victoria
eP 21 35 33

SEPTEMBER 5
U.S.C.G.S.
51N, 179 1/2E
Rat Islands,
Aleutian Islands
H = 21 28 42
Resolute
eP 21 36 (23)
(PP) 21 37 38
(PPP) 21 38 24
eS 21 42 33
L 21 45.5

SEPTEMBER 5
U.S.C.G.S.
51 1/2N, 179 1/2E
Rat Islands,
Aleutian Islands
H = 21 53 22
Resolute
eP 22 01 02

SEPTEMBER 5
Alberni
iP 23 16 26.8
Horseshoe Bay
iP 23 16 31.4
Lillooet
iP 23 16 43 c
Victoria
iP 23 16 28.0 c,N,W

SEPTEMBER 5
U.S.C.G.S.
18S, 178 1/2W
Fiji Islands
H = 23 05 00
Banff
iP 23 16 55 d

SEPTEMBER 6
U.S.C.G.S.
5 1/2N, 126 1/2E
Near south coast of
Mindanao, Philippine
Islands
H = 00 27 59
Ottawa
eP' 00 47 06
Resolute
eP 00 41 (29)
iP 00 41 34
eS 00 52 46
L 01 05.5
Seven Falls
eP' 00 47 06

SEPTEMBER 6
H = 01 17 50
Mag 1.7
Banff
iP 01 17 54.2
iS 01 17 57.6
Local shock

SEPTEMBER 6
Resolute
e(P) 03 58 (46)
i(P) 03 59 04
e 04 08.2

SEPTEMBER 6
U.S.C.G.S.
10S, 160 1/2E
Solomon Islands
H = 04 10 54
Lillooet
eP 04 33 58
Resolute
PS 04 38 37
SS 04 44.5
e 04 46 42
G 04 54.2
Victoria
eP 04 33 47.5
e 04 36 34

SEPTEMBER 6
Resolute
i(P) 07 13 59 d

SEPTEMBER 6
Victoria
iP 11 37 43.6 c
S 11 40 20

SEPTEMBER 6
West central U.S.A.
Banff
iP 14 37 19.6
iS 14 39 13
D = 934 km
Horseshoe Bay
eP 14 37 52.3
Victoria
eP 14 37 50.3
eS 14 40 25
D = 1186 km

DOMINION OBSERVATORIES

SEPTEMBER 6
Peru - Bolivia
border region
H = 18 55 09
h = 150 km
Ottawa
eP 19 05 54
Resolute
eG 19 41 10
Seven Falls
eP 19 06 04

SEPTEMBER 7
U.S.C.G.S.
1S, 23 1/2W
Atlantic Ocean
H = 04 03 20
Ottawa
eP 04 14 05
Resolute
eP 04 16 (06)
Seven Falls
eP 04 13 52

SEPTEMBER 7
Banff
eP 06 44 41
e 06 46 34
Horseshoe Bay
eP 06 (57) -- c
(PP) 06 (59) --
(PPP) 07 (00) --
Victoria
eP 07 00 09 (c)

SEPTEMBER 7
Banff
eP 11 41 05
Resolute
e 11 49 18
e 11 54.9
e 11 55.6

SEPTEMBER 7
Montana earthquake
Banff
eP 14 43 56
iS 14 45 46
Victoria
eP 14 44 19

SEPTEMBER 8
45N, 111 1/2W
Yellowstone aftershock
H = 07 09 48
Alberni
eP 07 (11) --
Banff
eP 07 11 31
eS 07 13 24
Horseshoe Bay
iP 07 12 03
iS 07 14 34
Resolute
eL 07 26 46
Victoria
eP 07 12 00
iP 07 12 01 c
S 07 14 26

SEPTEMBER 8
U.S.C.G.S.
36 1/2N, 140E
Honshu, Japan
H = 10 03 29
h = 100 km
Resolute
iP 10 13 53 d

SEPTEMBER 8
U.S.C.G.S.
42 1/2N, 142 1/2E
Hokkaido Japan
H = 19 19 39
Banff
eP 19 30 13
Horseshoe Bay
eP 19 29 52

Resolute
eP 19 29 (18)
eS 19 37 08
(S_cS) 19 39 03
G 19 43.3
Victoria
eP 19 29 54

SEPTEMBER 9
U.S.C.G.S.
Near east coast of
Kamchatka
H = 01 50 05
Resolute
eS 02 03.3
eL 02 07 20

SEPTEMBER 9
Canadian Arctic
H = 09 55 56.6
Mag 1.8
Resolute
P_1 09 56 06.5
S_1 09 56 14.0
D = 61.5 km

SEPTEMBER 10
48°18'N, 124°30'W
Olympic Mountains
H = 02 27 14
Mag 1.9
Horseshoe Bay
iP 02 27 35.1 d
iS 02 27 54.6
D = 152 km
Victoria
iP 02 27 24.5 d, (S), W
iS 02 27 34.0
D = 86 km

SEPTEMBER 10
U.S.C.G.S.
6 1/2S, 154 1/2E
Solomon Islands
H = 05 35 04
Banff
iP 05 48 28 d

Halifax
iP' 05 54 14 c
Horseshoe Bay
iP 05 48 03 c
Ottawa
eP' 05 53 59
Resolute
PS 06 02 28
PPS 06 03.2
SS 06 07.4
G 06 18.0
Seven Falls
iP' 05 54 02 c
Victoria
eP 05 48 03

SEPTEMBER 10
Resolute
e 07 39 26
e 07 40.8
e 07 44.5
e 07 47.1

SEPTEMBER 10
Horseshoe Bay
eP 08 48 14
Victoria
eP 08 47 29

SEPTEMBER 10
Horseshoe Bay
eP 09 32 13 c
Victoria
eP 09 32 05

SEPTEMBER 10
U.S.C.G.S.
45 1/2N, 148 1/2E
Kurile Islands
H = 15 43 28
Resolute
iP 15 52 49.5 d
eL 16 06.8

SEPTEMBER 10
Montana earthquake
Banff
eP 16 01 59

SEPTEMBER 10
Victoria
eP 17 05 20

SEPTEMBER 10
Horseshoe Bay
eP 18 52 55
Victoria
eP 18 50 (52)

SEPTEMBER 10
U.S.C.G.S.
47N, 152E
Kurile Islands
H = 22 56 34
Resolute
eP 23 05 39
eS 23 12 47
SS 23 16.0

SEPTEMBER 11
U.S.C.G.S.
44 1/2N, 112W
Hebgen Lake aftershock
H = 11 05 33
Horseshoe Bay
eP 11 07 51
eS 11 10 30
Victoria
eP 11 07 38

SEPTEMBER 11
Resolute
e 12 40 40
e 12 45 14
e 12 45 26
eL 12 48.1

SEPTEMBER 11
U.S.C.G.S.
42 1/2N, 29 1/2W
North of Azores Islands
H = 14 18 07
Halifax
iP 14 23 37 d

SEPTEMBER 11
U.S.C.G.S.
12N, 87 1/2W
Near coast of
Nicaragua
H = 23 08 38
Ottawa
iP 23 15 32

SEPTEMBER 12
U.S.C.G.S.
20S, 68W
Southern Bolivia
H = 01 41 03
h = 150 km
Ottawa
eP 01 51 38
i 01 52 05
Resolute
eS 02 05.5
sS 02 06 20
(SS) 02 11.5
Seven Falls
eP 01 51 48
i 01 52 15
Victoria
eP 01 53 22 d
eS 02 07 10

SEPTEMBER 12
U.S.C.G.S.
3S, 146 1/2E
Bismarck Sea
H = 01 53 47
Banff
eP 02 07 22
Horseshoe Bay
eP 02 07 03 d

DOMINION OBSERVATORIES

Ottawa
eP' 02 13 01
Resolute
e 02 14 28
SKS 02 18 12
eS 02 19.2
PS 02 20.9
SS 02 26 20
eL 02 33.7
Victoria
eP 02 07 11 d
PP 02 10 55
S 02 19 36
PS 02 24 32
eL 02 35 30

SEPTEMBER 12
U.S.C.G.S.
3S, 146 1/2E
Bismarck Sea
H = 07 01 45
Resolute
SKS 07 26 08
S 07 27.1
SS 07 34 12
e 07 37.1
L 07 42.6
Victoria
e 07 14 58

SEPTEMBER 12
U.S.C.G.S.
9 1/2S, 156E
Solomon Islands region
H = 11 24 27
Ottawa
eP' 11 43 27
Resolute
SKS 11 49.2
S 11 50 24
PS 11 51.8
SS 11 57 20
L 12 06.0

SEPTEMBER 12
U.S.C.G.S.
17 1/2N, 106W
Off coast of Jalisco, Mexico
H = 16 59 05
Ottawa
eP 17 06 25
Resolute
eL 17 23 22

SEPTEMBER 12
U.S.C.G.S.
36N, 71E
Hindu Kush
H = 21 19 57
h = 200 km
Horseshoe Bay
iP 21 32 54
Ottawa
eP 21 32 54
Resolute
(PP) 21 33.7
S 21 39.5
Victoria
eP 21 32 58

SEPTEMBER 13
Canadian Arctic
H = 03 25 57.7
Mag 2.5
Resolute
P_1 03 26 28.0
S_1 03 26 51.0
D = 189 km

SEPTEMBER 13
Victoria
eP 13 28 29

SEPTEMBER 13
Ottawa
eP 18 21 29
Seven Falls
eP 18 21 13

SEPTEMBER 13
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 19 49 36
Horseshoe Bay
iP 19 51 54
e 19 54 31
Ottawa
eP 19 55 04
Resolute
eS 20 00.8
eL 20 05.6
Saskatoon
eP 19 52 13
Victoria
iP 19 51 52 d,S,E
iS 19 54 25

SEPTEMBER 13
U.S.C.G.S.
45N, 110 1/2W
Hebgen Lake aftershock
H = 20 40 41
Banff
iP 20 42 29
Horseshoe Bay
iP 20 43 00
iS 20 45 38
Saskatoon
iP 20 42 43
Victoria
eP 20 42 57 d
e 20 45 30

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SEPTEMBER 13
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 21 23 31
Banff
eP 21 25 16
Horseshoe Bay
eP 21 25 48
eS 21 28 24
Resolute
eS 21 35 10
iL 21 39 32
Saskatoon
iP 21 27 32 c
Victoria
iP 21 25 44 d,S,E
iS 21 28 18

SEPTEMBER 13
U.S.C.G.S.
1N, 129E
Halmahera Island region
H = 22 40 36
Resolute
SKS 23 05 02
S 23 05 42
PS 23 07.5
(PPS) 23 08.3
SS 23 12 42
L 23 27.6

SEPTEMBER 13
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 23 39 46
Banff
eP 23 41 30

SEPTEMBER 14
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 06 22 59
Banff
eP 06 24 44
Horseshoe Bay
eP 06 27 56

SEPTEMBER 14
U.S.C.G.S.
Northern Mariana Islands
H = 08 42 56
Banff
eP 08 55 17
Horseshoe Bay
iP 08 54 53 d

SEPTEMBER 14
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 09 34 52
Alberni
eP 09 37 33
iS 09 40 16
Banff
iP 09 36 37
Horseshoe Bay
iP 09 37 09
e 09 39 48
e 09 40 26
Ottawa
eP 09 40 20
Resolute
eS 09 46 22
iL 09 50.6
Saskatoon
eP 09 37 13
iS 09 38 54
Victoria
eP 09 37 06 c,S
S 09 39 42

SEPTEMBER 14
Horseshoe Bay
eP 10 01 19

SEPTEMBER 14
Horseshoe Bay
eP 11 16 19

SEPTEMBER 14
U.S.C.G.S.
24S, 176 1/2W
Tonga Islands region
H = 13 15 49
Mag 5 3/4 - 6
Banff
eP 13 29 04
Horseshoe Bay
eP 13 28 41
Resolute
eS 13 42.7
PS 13 44 32
SS 13 50.2

SEPTEMBER 14
U.S.C.G.S.
28 1/2S, 177W
Kermadec Islands
H = 14 09 39
Mag 7 3/4
Alberni
iP 14 22 45 c
Banff
eP 14 23 11
Halifax
iP' 14 28 44
Horseshoe Bay
iP 14 22 48
Ottawa
eP' 14 28 27
Resolute
iP' 14 28 17 d
P' 14 28 35
PP 14 29 23
i 14 30 24
SKS 14 35.2
eS 14 37 18
PS 14 39 10
SS 14 45 38
SSS 14 49 20
L 14 56.7

DOMINION OBSERVATORIES

Saskatoon
eP 14 24 39
S 14 35 24
SS 14 42 10
Seven Falls
eP' 14 28 34 c
Victoria
iP 14 22 44 c,N,E
PP 14 26 39
S 14 32 54
PS 14 35 34
SS 14 39 55

SEPTEMBER 14
Banff
eP 14 47 10
Horseshoe Bay
iP 14 46 53
Ottawa
eP 14 47 19 c

SEPTEMBER 14
U.S.C.G.S.
28 1/2S, 176 1/2W
Kermadec aftershock
H = 14 58 40
Ottawa
eP' 15 17 31

SEPTEMBER 14
U.S.C.G.S.
29S, 176 1/2W
Kermadec Islands aftershock
H = 17 06 15
Resolute
e(S) 17 33.9
PS 17 35 40
PPS 17 37.0
SS 17 42.1
Victoria
P 17 19 20 d,S,E

SEPTEMBER 14
U.S.C.G.S.
46N, 151 1/2E
Kurile Islands
H = 17 22 28
Banff
eP 17 32 21

SEPTEMBER 14
U.S.C.G.S.
29S, 177W
Kermadec aftershock
H = 22 23 53
Mag 6 1/2
Alberni
eL 22 47 58
Horseshoe Bay
eP 22 37 01
Resolute
PP 22 43.6
SKS 22 49.4
SKKS 22 50 43
eS 22 51.4
PS 22 53 14
SS 22 58 42
SSS 23 03.4
Victoria
eP 22 36 58 c,N

SEPTEMBER 15
U.S.C.G.S.
28 1/2S, 177W
Kermadec aftershock
H = 05 59 42
Mag 6 1/2 - 6 3/4
Banff
eP 06 13 10
Horseshoe Bay
iP 06 12 46 c
Ottawa
eP' 06 18 26

Resolute
eP 06 14 (22)
eP' 06 18.0
PP 06 19 20
e 06 24.0
SKS 06 25 20
S 06 27 17
PS 06 29 02
SS 06 35.5
SSS 06 39 10
L 06 47.0
Saskatoon
eS 06 25 08
Victoria
eP 06 12 40 d,N,W
PP 06 15 16
PPP 06 17 06
SKS 06 19 44
SKKS 06 21 50

SEPTEMBER 15
U.S.C.G.S.
28 1/2S, 176 1/2W
Kermadec aftershock
H = 06 17 28
Horseshoe Bay
eP 06 30 29
Victoria
eP 06 30 34 c

SEPTEMBER 15
U.S.C.G.S.
21 1/2S, 179 1/2W
Fiji Islands region
H = 11 05 33
h = 600 km
Mag 6 1/2
Banff
iP 11 17 43 d
Halifax
(iP') 11 23 26 c
i 11 25 16 c
Ottawa
eP' 11 23 10
i 11 24 17
SKSP 11 34 00

SEISMOLOGICAL BULLETIN - 1959

Resolute
SKS 11 28 42
eS 11 30 20
(PS) 11 33 (21)
sS 11 34.3
SS 11 38 24
sSS 11 41 46
e 11 45 50
(SKPP') 11 46.1
e 11 48.2
Seven Falls
eP' 11 23 17
Victoria
iP 11 17 17 c,S,E
e 11 19 26
e 11 19 44
iS 11 27 09
PPS 11 28 09

SEPTEMBER 15
U.S.C.G.S.
43N, 147E
Near east coast of Hokkaido, Japan
H = 15 08 23
h = 100 km
Resolute
iP 15 17 53 d

SEPTEMBER 16
Resolute
eP 03 02 (44)

SEPTEMBER 16
Banff
iP 04 46 41 c

SEPTEMBER 16
U.S.C.G.S.
35 1/2N, 26E
Near coast of Crete
H = 05 13 50
Ottawa
iP 05 25 22 d
Resolute
eP 05 24 24 c
iP 05 24 24.5 d

Seven Falls
eP 05 25 00 d

SEPTEMBER 16
U.S.C.G.S.
29S, 176 1/2W
Kermadec aftershock
H = 10 07 45
Resolute
PS 10 37.3
e(L) 11 10.2

SEPTEMBER 16
U.S.C.G.S.
28 1/2S, 176W
Kermadec aftershock
H = 15 57 03
Mag 5 3/4 - 6
Resolute
eS 16 24 42
PS 16 26 20
SS 16 32.4
(SSS) 16 36 36
e 16 39.7
L 16 43.2
Victoria
eP 16 10 10 c

SEPTEMBER 16
Horseshoe Bay
iP 17 21 24
Victoria
eP 17 21 21 d

SEPTEMBER 16
U.S.C.G.S.
7N, 77 1/2W
Panama - Colombia border
H = 19 14 53
Ottawa
eP 19 22 18

SEPTEMBER 16
Canadian Arctic
H = 19 55 49
Mag 0.8
Resolute
P_1 19 55 51
S_1 19 55 52.5
D = 12.3 km

SEPTEMBER 16
Canadian Arctic
H = 20 24 40
Mag 1.0
Resolute
P_1 20 24 42
S_1 20 24 43.5
D = 12.3 km

SEPTEMBER 16
U.S.C.G.S.
45N, 111W
Hebgen Lake aftershock
H = 21 15 28
Banff
eP 21 17 11
eS 21 19 05
Horseshoe Bay
eP 21 17 39
Victoria
iP 21 17 36 c,N,W
S 21 19 52

SEPTEMBER 17
U.S.C.G.S.
45N, 112W
Hebgen Lake aftershock
H = 00 25 31
Banff
eP 00 27 12
Horseshoe Bay
eP 00 27 39
S 00 30 10
Victoria
eP 00 27 34 c
S 00 29 58

DOMINION OBSERVATORIES

SEPTEMBER 17
Montana aftershock
Victoria
eP 03 01 37
e 03 04 02

SEPTEMBER 17
Montana aftershock
Banff
e 04 41 36
e 04 43 17
Horseshoe Bay
eS 04 41.5
Victoria
eP 04 41 50
eS 04 44 12

SEPTEMBER 17
Banff
eP 06 53 21

SEPTEMBER 17
U.S.C.G.S.
28 1/2S, 176W
Kermadec aftershock
H = 14 36 11
Mag 5 3/4 - 6
Alberni
eP 14 49 59
Resolute
eS 15 03 44
PS 15 05 49
SS 15 11.9
(SSS) 15 15 40
L 15 23.0
Victoria
eP 14 49 15

SEPTEMBER 17
U.S.C.G.S.
13 1/2N, 88 1/2W
El Salvador
H = 21 24 27
h = 60 km
Banff
iP 21 32 27 d
Halifax
iP 21 31 45 d
S_cS 21 41 26
Horseshoe Bay
iP 21 32 42 d
Ottawa
eP 21 31 07 c
Resolute
eP 21 34 37 c
iP 21 34 38 d
eS 21 43.1
SS 21 47.3
L 21 49.1
Victoria
eP 21 32 40 c
eS 21 34 20

SEPTEMBER 17
U.S.C.G.S.
30 1/2N, 114W
Gulf of California
H = 22 14 40
Mag 5 1/4
Alberni
eP 22 19 17
Banff
eP 22 19 25
Horseshoe Bay
eP 22 19 16
Ottawa
eP 22 21 22
Resolute
e 22 32.2
S_cS 22 33 02
eL 22 35.3
Victoria
iP 22 19 12
e 22 19 57
S 22 24 52

SEPTEMBER 18
U.S.C.G.S
28 1/2S, 176 1/2W
Kermadec aftershock
H = 09 24 35
Resolute
eS 09 52.4
PS 09 54 08
SS 10 00.5
(SSS) 10 04 12

SEPTEMBER 18
U.S.C.G.S.
57 1/2S, 24W
Sandwich Islands
H = 12 01 11
Ottawa
eP' 12 19 14
Resolute
eP' 12 20 (29)
PP 12 23.4
PKS 12 24.2
e 12 32 36
SKSP 12 33 40
SS 12 42.1

SEPTEMBER 20
U.S.C.G.S.
13 1/2S, 111 1/2W
Pacific Ocean, north of Easter Island
H = 06 07 59
Halifax
eS 06 28 53
Ottawa
eP 06 19 01
Resolute
eS 06 31 40
SS 06 37 42
PSPS 06 38 15
SSS 06 41 32
L 06 43.6

SEPTEMBER 20
Resolute
iP 17 30 14 d

SEPTEMBER 20
U.S.C.G.S.
22 1/2S, 67 1/2W
Chile - Bolivia border
H = 23 17 34
h = 150 km
Ottawa
eP 23 28 25
Seven Falls
eP 23 28 36
Shawinigan Falls
eP 23 28 32

SEPTEMBER 21
U.S.C.G.S.
9 1/2S, 149E
Near coast of New Guinea
H = 02 08 28
Ottawa
eP' 02 27 36
Resolute
PS 02 36 15
SS 02 42.3
e 02 43.6
Shawinigan Falls
eP' 02 27 36

SEPTEMBER 21
U.S.C.G.S.
40N, 74 1/2E
Kirghiz S.S.R.
China border
H = 12 19 30
Horseshoe Bay
iP 12 32 28 d
Victoria
iP 12 31 34 d

SEPTEMBER 21
U.S.C.G.S.
10S, 120E
Sumba Island
H = 13 09 36
Halifax
eP' 13 29 17.8 c
iP' 13 29 18.0 d

SEPTEMBER 21
U.S.C.G.S.
62 1/2N, 159W
Southwestern Alaska
H = 16 16 19
Banff
eP 16 22 23
Horseshoe Bay
eP 16 21 29
Resolute
eS 16 26 16
e 16 28.3
Victoria
eP 16 20 36
eL 16 29 —

SEPTEMBER 21
Halifax
i 21 45 11

SEPTEMBER 22
U.S.C.G.S.
53 1/2N, 166W
Fox Island, Aleutian Islands
H = 07 45 55
Ottawa
eP 07 55 32
Resolute
eS 07 58.4
eL 08 01.0
Victoria
eP 07 50 46

SEPTEMBER 22
Local shock
H = 21 31 24
Banff
iP 21 31 32.3
iS 21 31 38.9
D = 54 km

SEPTEMBER 23
U.S.C.G.S.
83 1/2N, 113 1/2E
North Polar region
H = 10 38 59
Ottawa
eP 10 48 02
Resolute
eP 10 43 (45)
eP 10 44 03
eS 10 47 45
e 10 48.7

SEPTEMBER 23
U.S.C.G.S.
35 1/2N, 138 1/2E
Honshu, Japan
H = 22 23 11
Ottawa
eP 22 36 34
Resolute
eP 22 33 45
eS 22 42.6
S_cS 22 43 40
SS 22 46 28
L 22 52.2

SEPTEMBER 24
U.S.C.G.S.
83 1/2N, 112 1/2E
North Polar region
H = 05 43 38
Ottawa
eP 05 52 40 d
Resolute
eP 05 48 24
eS 05 52 21
L 05 53.5
e 05 54.2

DOMINION OBSERVATORIES

Seven Falls
eP 05 52 27
Shawinigan Falls
eP 05 52 32

SEPTEMBER 24
Resolute
e 11 03 18
e 11 10.5

SEPTEMBER 24
U.S.C.G.S.
29 1/2S, 176 1/2W
Kermadec Islands
H = 19 44 29
Resolute
PS 20 14.3
(PPS) 20 15.3

SEPTEMBER 25
U.S.C.G.S.
9S, 113 1/2E
Off east coast of
Java
H = 00 14 30
Halifax
iP' 00 34 12 c
Ottawa
iP' 00 34 06 d
Resolute
SS 00 49 45
Seven Falls
eP' 00 34 08 d
Shawinigan Falls
eP' 00 34 07

SEPTEMBER 25
50°11'N, 68°12'W
Between the Manicouagan
and Toulnustoric Rivers
about 40 miles above
their junction
H = 01 36 30.2
Mag 3.9
Montreal
e 01 38 55
iS_n 01 39 02
iS_1 01 39 36.5
D = 860 km

Ottawa
eS_n 01 39 28
S_1 01 40 10
D = 770 km
Seven Falls
iS_n 01 38 02.6
S_1 01 38 17
D = 388 km
Shawinigan Falls
eS_n 01 38 34.5
S_1 01 38 58.5
D = 525 km

SEPTEMBER 25
U.S.C.G.S.
29S, 177W
Kermadec Islands
H = 01 39 09
Resolute
eS 02 06.9
PS 02 08 41
SS 02 15.1
SSS 02 18 42

SEPTEMBER 25
U.S.C.G.S.
22N, 122E
Near east coast of
Formosa
H = 02 36 48
Horseshoe Bay
i 02 49 43
Resolute
eP 02 49 02
iP 02 49 03 d
iP 02 49 25
i 02 51 05.5
PP 02 52 08
e 02 53.5
PPP 02 54.0
iS 02 59.0
PPS 03 00.0
SS 03 04.5
SSS 03 08.0
L 03 08.8
Saskatoon
e 03 01 06

Victoria
iP 02 47 17 c,S,W

SEPTEMBER 25
Banff
eP 23 27 52.6

SEPTEMBER 26
U.S.C.G.S.
44N, 128W
Off coast of Oregon
H = 04 48 53
Horseshoe Bay
iP 04 50 26 d
Ottawa
eP 04 55 58
Resolute
e 05 01 46
e 05 02 46
eL 05 05.0
Victoria
iP 04 50 11 d,S,W
iS 04 51 17

SEPTEMBER 26
U.S.C.G.S.
43 1/2N, 128 1/2W
Off coast of Oregon
H = 08 20 51
Banff
eP 08 23 39.6
Halifax
iP 08 29 09
eS 08 35 43
SS 08 39 09
Horseshoe Bay
iP 08 22 26.3 d
eS 08 23 53.1
Lillooet
eP 08 (12) (38) c
Ottawa
eP 08 28 00
PP 08 29 28
P_cP 08 30 27
S 08 33 45
G 08 36 32

SEISMOLOGICAL BULLETIN - 1959

Resolute
eP 08 27 (40)
iP 08 27 49
PP 08 28.9
iS 08 33 12
L 08 35.2
(S_cS) 08 37.7
Saskatoon
iP 08 24 39 d
iS 08 30 06
Seven Falls
eP 08 28 24
PP 08 30 00
S 08 34 21
e 08 36 09
G 08 39 21
Shawinigan Falls
eP 08 28 13
PP 08 29 37
P_cP 08 30 24
Victoria
iP 08 22 10.5 d
iS 08 23 17

SEPTEMBER 26
Horseshoe Bay
iP 08 33 28.6 c
Victoria
iP 08 33 15
iS 08 34 20

SEPTEMBER 26
Victoria
iP 08 34 53 c

SEPTEMBER 26
Horseshoe Bay
iP 08 36 34.1
Victoria
iP 08 35 12 c

SEPTEMBER 26
Victoria
i 08 37 29 c

SEPTEMBER 26
Horseshoe Bay
iP 08 52 04.1 d
Victoria
i 08 51 54 c

SEPTEMBER 26
U.S.C.G.S.
22S, 68 1/2W
Northern Chile
H = 10 18 20
Ottawa
iP 10 29 01 c
Seven Falls
eP 10 29 10
Shawinigan Falls
eP 10 29 07

SEPTEMBER 26
U.S.C.G.S.
79 1/2N, 12W
Off east coast
of Greenland
H = 12 35 38
Resolute
iP 12 39 45
iS 12 42 53
eL 12 45 24

SEPTEMBER 26
Resolute
eP 16 43 12 c

SEPTEMBER 26
Lillooet
eP 19 30 32 d

SEPTEMBER 26
Lillooet
iP 20 (38) (27) d

SEPTEMBER 27
Lillooet
iP 01 (58) (53) d

SEPTEMBER 27
Victoria
eP 06 30 30 d

SEPTEMBER 27
Resolute
eP 09 26 12

SEPTEMBER 27
U.S.C.G.S.
5 1/2S, 129 1/2E
Banda Sea
H = 10 20 18
Resolute
eP 10 34 38

SEPTEMBER 27
Resolute
eP 12 44 18
e 13 03 40
e 13 05 28
e 13 08.3

SEPTEMBER 27
Resolute
i 16 35 35
i 16 35 36.5
i 16 35 45
i 16 36 46

SEPTEMBER 27
Victoria
iP 21 12 54 c

DOMINION OBSERVATORIES

SEPTEMBER 28
U.S.C.G.S.
81 1/2N, 26E
Svalbard region
H = 01 11 20
Resolute
eP 01 16 02
eS 01 20 00
eL 01 21.5

SEPTEMBER 28
Lillooet
eP 03 (13) (25) (d)
Resolute
e(P) 03 53 00

SEPTEMBER 28
U.S.C.G.S.
26 1/2N, 128E
Okinawa Islands
H = 04 20 27
Resolute
eP 04 32 11 c
iP 04 32 11.5 d
eS 04 41 40
SS 04 46 42
(SSS) 04 49 22
eL 04 50.5

SEPTEMBER 28
U.S.C.G.S.
45N, 111W
Hebgen Lake
H = 08 05 42
Horseshoe Bay
iP 08 07 56 c
eS 08 10 30
Resolute
(PP) 08 13 11
eS 08 17 02
eL 08 18 27
i 08 21 30
L 08 24.0
Victoria
eP 08 07 52 c,SE
eS 08 10 18

SEPTEMBER 28
Resolute
eP 08 47 00
iP 08 47 01.5

SEPTEMBER 28
Banff
eP 09 08 17.6
e 09 09 52.6
e 09 10 11.6

SEPTEMBER 28
Resolute
eP 10 26 46

SEPTEMBER 28
48.1N, 128.2W
Off west coast of
British Columbia
H = 11 00 16
Mag 3.1
Alberni
iP 10 (55) (07)
iS 10 (55) (42)
D = 282 km
Horseshoe Bay
iP 11 01 01.5 d
iS 11 01 48.8
D = 388 km
Victoria
eP 11 00 56.3
eS 11 00 40.3
D = 360 km

SEPTEMBER 28
Victoria
eP 12 36 09

SEPTEMBER 29
U.S.C.G.S.
29S, 176 1/2W
Kermadec Islands
H = 15 31 57
Mag 6 1/2 - 6 3/4
Halifax
PKS 15 54 20
SKS 15 58 04
Resolute
eP' 15 50 45
SKS 15 57 30
(SKKS) 15 58 46
S 15 59.5
PS 16 01 20
SS 16 07 41
SSS 16 11.5
Victoria
eP 15 45 06
iS 15 54 27

SEPTEMBER 30
U.S.C.G.S.
45N, 111W
Yellowstone aftershock
H = 01 36 00
Banff
iP 01 37 50
Resolute
(PP) 01 43 (13)
eL 01 49 40
Victoria
iP 01 38 15 c
eS 01 40 55

SEPTEMBER 30
Victoria
iP 01 53 45 c
iS 01 54 52

SEISMOLOGICAL BULLETIN - 1959

SEPTEMBER 30
U.S.C.G.S.
27N, 125E
Ryukyu Islands
H = 03 30 05
Resolute
eP 03 41 45
eP 03 42 04

SEPTEMBER 30
U.S.C.G.S.
28 1/2S, 176 1/2W
Kermadec Islands
H = 04 56 21
Resolute
eS 05 23 56
PS 05 25 42
PPS 05 27 02
SS 05 32 07
(SSS) 05 35.9
(SKPP') 05 39.6

SEPTEMBER 30
U.S.C.G.S.
29S, 176 1/2W
Kermadec Islands
H = 13 31 30
Resolute
eS 13 59 04
PS 14 01.1
SS 14 07.3
(SSS) 14 11.1

SEPTEMBER 30
Canadian Arctic
H = 15 52 46.7
Mag 1.9
Resolute
iP_1 15 53 17
iS_1 15 53 40
D = 189 km

SEPTEMBER 30
Resolute
e 18 16 20
e 18 18 02

SEPTEMBER 30
U.S.C.G.S.
18S, 168E
New Hebrides Islands
H = 20 25 58
Mag 6 1/2
Banff
eP 20 39 34
Horseshoe Bay
eP 20 39 04 d
Ottawa
eP' 20 44 53
Resolute
eP' 20 44 32
PP 20 44.9
eS 20 52.6
PS 20 54 24
(PPS) 20 55 40
e 20 56.0
SS 21 00.5
SSS 21 04.4
Seven Falls
eP' 20 44 59
Victoria
eP 20 39 03 c
eL 21 07.6

DOMINION OBSERVATORIES

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the third quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

JULY 2 at 19 42 45 U.T. Magnitude 2.8. Originated 270 km from Resolute, N.W.T., at a depth of about 19 km.

JULY 2 at 19 48 00 U.T. Magnitude 2.8. Originated 270 km from Resolute, N.W.T., at a depth of about 19 km.

JULY 2 at 23 07 57 U.T. Magnitude 2.5. Originated 270 km from Resolute, N.W.T., at a depth of about 19 km.

JULY 9 at 19 55 15 U.T. Magnitude 2.4. Originated 307 km from Resolute, N.W.T.

JULY 19 at 11 11 00 U.T. Magnitude 2.0. Originated 27 km from Resolute, N.W.T.

AUGUST 15 at 21 11 43 U.T. Magnitude 1.9. Originated 37 km from Resolute, N.W.T.

SEPTEMBER 9 at 09 55 57 U.T. Magnitude 1.8. Originated 61.5 km from Resolute, N.W.T.

SEPTEMBER 13 at 03 25 58 U.T. Magnitude 2.5. Originated 189 km from Resolute, N.W.T.

SEPTEMBER 16 at 19 55 49 U.T. Magnitude 0.8. Originated 12.3 km from Resolute, N.W.T.

SEPTEMBER 16 at 20 24 40 U.T. Magnitude 1.0. Originated 12.3 km from Resolute, N.W.T.

SEPTEMBER 30 at 15 52 47 U.T. Magnitude 1.9. Originated 189 km from Resolute, N.W.T.

SEPTEMBER 31 at 05 41 39 U.T. Magnitude 2.9. Originated 116 km from Resolute, N.W.T.

SEPTEMBER 31 at 11 00 51 U.T. Magnitude 2.4. Originated 115 km from Resolute, N.W.T.

SEISMOLOGICAL BULLETIN - 1959

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the third quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

AUGUST 1 at 13 52 49 U.T. Magnitude 4.1. Epicentre at 48°25'N, 68°19'W. About ten miles east of Rimouski, Que.

AUGUST 22 at 03 52 30 U.T. Magnitude 3.2. Epicentre at 46°57'N, 70°47'W. In the St. Lawrence River, just east of the Island of Orleans, Que.

SEPTEMBER 25 at 01 36 30 U.T. Magnitude 3.9. Epicentre at 50°11'N, 68°12'W. Between the Manicouagan and Toulnustouc Rivers about forty miles above their junction.

DOMINION OBSERVATORIES

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the third, quarter of 1959. The times of the observed phases are given at their respective chronological positions in the text of this bulletin.

JULY 4 at 05 27 22 U.T. Magnitude 3.0 Epicentre at 47°54'N; 123°05'W. Olympic Mountains.

JULY 5 at 08 21 08 U.T. Magnitude 4.1 Epicentre at 52°N; 131°W. Queen Charlotte Island.

JULY 8 at 17 27 38 U.T. Magnitude 2.2 Epicentre at 47.9°N; 123.6°W. Olympic Mountains.

JULY 11 at 08 01 43 U.T. Magnitude 2.9 Epicentre at 47.7°N; 119.5°W. North central Washington.

JULY 18 at 12 19 05 U.T. Magnitude 3.1 Epicentre at 49.5°N; 127.0°W. Off coast of Vancouver Island.

JULY 21 at 21 24 50 U.T. Magnitude 1.6 Epicentre at 48°42'N; 123°42'W. South Vancouver Island.

JULY 22 at 04 05 52 U.T. Magnitude 2.5 Epicentre at 48.3°N; 122.7°W. West of Whidbey Island.

JULY 22 at 04 07 10 U.T. Magnitude 2.4 Epicentre at 48,2°N; 122.7°W. East of Whidbey Island.

JULY 22 at 15 34 13 U.T. Magnitude 2.4 Epicentre at 48.6°N; 124.7°W. Near Clo-oose, Vancouver Island.

JULY 23 at 06 41 19 U.T. Magnitude 2.6 Epicentre at 51°N; 122°W. Near Lillooet, B.C.

JULY 23 at 08 15 24 U.T. Magnitude 4.2 Epicentre at 45.4°N; 124.5°W. Off coast of Oregon.

JULY 27 at 03 27 45 U.T. Magnitude 2.3 Epicentre at 49°00'N; 123°04'W. Boundary Bay.

JULY 28 at 12 28 08 U.T. Magnitude 3.2 Epicentre at 49.5°N; 130.0°W. Off west coast.

JULY 30 at 07 19 19 U.T. Magnitude 2.4 Epicentre at 48°24'N; 122°32'W. Whidbey Island.

AUGUST 2 at 09 35 52 U.T. Magnitude 3.0. Epicentre at 47.8N, 126.4W. Off Washington Coast.

AUGUST 2 at 09 48 59 U.T. Magnitude 2.5. Epicentre at 49 34N, 126 09W. Near Nootka Sound.

AUGUST 6 at 03 44 32 U.T. Magnitude 4.4. Epicentre at 47.8N, 119.9W. Chelan, Washington, Felt.

AUGUST 6 at 04 36 16 U.T. Magnitude 3.9. Epicentre at 47.8N, 119.9W. Aftershock of previous.

AUGUST 13 at 13 56 14 U.T. Magnitude 2.7. Epicentre at 48 43N, 124 27W. South-West Vancouver Island.

AUGUST 13 at 19 07 15 U.T. Magnitude 4.1. Epicentre at 44N, 124.5W. Off Coast of Oregon.

AUGUST 14 at 21 15 18 U.T. Magnitude 2.7. Epicentre at 49 21N, 123 37W. Strait of Georgia.

AUGUST 14 at 21 22 12 U.T. Magnitude 2.0. Epicentre at 49 18N, 123 33W. Strait of Georgia.

AUGUST 14 at 21 28 32 U.T. Magnitude 2.3. Epicentre at 49 20N, 123 33W. Strait of Georgia.

AUGUST 18 at 18 07 33 U.T. Epicentre at 47.9N, 120W. Chelan Washington?

AUGUST 20 at 23 07 20 U.T. Magnitude 1.8. Epicentre at 48 30N, 123 39W. Southern Vancouver Island.

AUGUST 22 at 23 42 54 U.T. Magnitude 2.3. Epicentre at 48 33N, 122 50W. Whidbey Island.

AUGUST 23 at 23 11 15 U.T. Magnitude 3.1. Epicentre at 48.4N, 122.5W. East of Whidbey Island.

AUGUST 24 at 17 29 17 U.T. Magnitude 2.4. Epicentre at 48 04N, 124 19W. Olympics.

AUGUST 25 at 17 12 22 U.T. Magnitude 2.9. Epicentre at 48 28N, 122 28W. Near Bellingham.

AUGUST 26 at 07 18 22 U.T. Magnitude 2.8. Epicentre at 50.9N, 125.9W. Knight Inlet.

DOMINION OBSERVATORIES

AUGUST 26 at 07 29 42 U.T. Magnitude 2.9. Epicentre at 50.9N, 125.9W. Knight Inlet.

AUGUST 26 at 10 27 41 U.T. Magnitude 5.7. Epicentre at 52.2N, 129.9W. Queen Charlotte Island.

SEPTEMBER 2 at 02 35 44 U.T. Magnitude 2.5. Epicentre at 47.9N, 123.0W. Olympics.

SEPTEMBER 2 at 20 57 35 U.T. Magnitude 3.4. Epicentre at 48 46N, 123 18W. Gulf Islands. Felt.

SEPTEMBER 10 at 02 27 14 U.T. Magnitude 1.9. Epicentre at 48 18N, 124 30W. Olympics.

SEPTEMBER 17 at 05 48 47 U.T. Magnitude 2.8. Epicentre at 48.4N, 122.7W. Whidbey Islands.

SEPTEMBER 26 at 08 20 51 U.T. Magnitude 5.5. Epicentre at 43.5N, 128.5W. Off Coast of Oregon.

SEPTEMBER 28 at 11 00 16 U.T. Magnitude 3.1. Epicentre at 48.1N, 128.2W. Off West Coast.

I.G.Y. MICROSEISMIC BULLETIN

JULY - SEPTEMBER 1959

NOTES

Three stations only have been read,

An inland station - Ottawa,
An Arctic station - Resolute, and
A Pacific station - Victoria.

The following instruments are used:

Ottawa - Benioff Z T_s = 1 sec. T_g = 75 sec.
Resolute - Columbia Z T_s = 10.2 sec. T_g = 20 sec.
Victoria - Benioff Z T_s = 1 sec. T_g = 75 sec.

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
July 1	0	...			1	0.1	4.2	0,0		
	6	...			1	0.1	5.3	0,0		
	12	...			...			0,0		
	18	...			1	0.2	4.7	0,0		
2	0	...			1	0.2	4.5	0,0		
	6	...			1	0.15	5.2	0,0		
	12	...			...			0,0		
	18	...			...			3	0.1	2.0
3	0	...			...			3	0.1	2.0
	6	...			...			3	0.2	2.0
	12	...			...			3	0.2	2.0
	18	...			...			3	0.3	2.0
4	0	...			...			3	0.5	2.0
	6	...			...			3	0.4	2.0
	12	...			...			0,0		
	18	...			...			0,0		
5	0	...			...			0,0		
	6	(3)	0.5	4.0	...			0,0		
	12	...			...			3	0.2	2.0
	18	(3)	0.5	4.0	...			3	0.2	2.0
6	0	(3)	0.5	4.0	...			3	0.2	2.0
	6	(3)	0.5	4.0	...			2	0.4	2.5
	12	(3)	0.5	4.0	...			3	0.3	2.5
	18	(3)	0.3	3.0	...			3	0.2	2.8
7	0	(3)	0.3	3.0	...			3	0.1	2.8
	6	(3)	0.3	3.7	...			0,0		
	12	(3)	0.5	4.0	...			3	0.1	2.4
	18	(3)	0.5	4.0	...			0,0		
8	0	(3)	0.4	3.7	1	0.1	6.1	...		
	6	(3)	0.4	3.7	1	0.1	6.0	0,0		
	12	(3)	0.4	3.7	1	0.1	5.9	0,0		
	18	(3)	0.4	3.7	1	0.1	5.9	0,0		
9	0	(3)	0.4	3.7	1	0.1	6.2	0,0		
	6	(3)	0.4	3.7	1	0.1	6.1	0,0		
	12	(3)	0.4	3.7	1	0.2	5.7	0,0		
	18	(3)	0.4	3.7	...			0,0		
10	0	(3)	0.2	3.6	1	0.1	6.1	0,0		
	6	(3)	0.3	4.0	1	0.1	5.5	0,0		
	12	(3)	0.3	4.0	1	0.1	5.8	0,0		
	18	(3)	0.2	3.0	1	0.1	5.4	0,0		
11	0	(3)	0.2	3.0	1	0.1	6.0	0,0		
	6	(1)	0.4	3.0	...			0,0		
	12	(1)	0.8	3.4	...			0,0		
	18	...			...			0,0		
12	0	(1)	0.5	3.6	1	0.2	4.3	0,0		
	6	(1)	0.5	3.6	1	0.15	5.2	0,0		

SEISMOLOGICAL BULLETIN - 1959

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
July 12	12	(1)	0.5	3.6	1	0.15	5.2	0,0		
	18	(3)	0.4	3.6	1	0.1	5.9	0,0		
13	0	(3)	0.2	3.3	1	0.1	6.5	0,0		
	6	(3)	0.2	3.3	1	0.1	6.0	0,0		
	12	(3)	0.2	3.3	1	0.1	6.5	0,0		
	18	(3)	0.2	3.3	0,0			0,0		
14	0	(3)	0.2	3.0	0,0			0,0		
	6	(3)	0.2	3.0	0,0			0,0		
	12	(3)	0.2	3.0	...			0,0		
	18	(3)	0.2	3.0	1	0.1	5.9	0,0		
15	0	(3)	0.2	3.0	...			0,0		
	6	(3)	0.2	3.0	1	0.1	6.1	0,0		
	12	(3)	0.2	3.0	...			0,0		
	18	(3)	0.2	3.0	...			0,0		
16	0	(3)	0.2	3.0	...			0,0		
	6	(3)	0.2	3.0	1	0.1	5.9	0,0		
	12	(3)	0.2	3.0	1	0 1	6.0	0,0		
	18	(3)	0.2	3.0	1	0.2	4.7	0,0		
17	0	(3)	0.3	3.6	1	0,15	5.2	0,0		
	6	(3)	0.3	3.8	1	0.2	4.7	0,0		
	12	(3)	0.3	4.0	1	0.3	4.6	0,0		
	18	(3)	0.3	4.0	1	0.3	4.8	0,0		
18	0	(3)	0.5	4.4	1	0.1	5.4	0,0		
	6	(3)	0.5	4.5	1	0.2	4.6	0,0		
	12	(3)	0.6	5.0	1	0.1	5.8	3	0.1	2.0
	18	(3)	0.3	3.6	1	0.1	6.2	3	0.1	2.5
19	0	(3)	0.2	3.6	...			3	0.1	2.0
	6	(3)	0.2	3.6	...			3	0.1	2.0
	12	(3)	0.3	3.6	1	0.1	6.6	3	0.2	2.0
	18	(3)	0.2	3.0	...			3	0.1	2.0
20	0	(3)	0.3	3.0	1	0.1	6.7	3	0.1	2.0
	6	(3)	0.3	3.0	1	0.1	6.0	3	0,1	2.0
	12	...			1	0.1	6.6	3	0.1	2.0
	18	(3)	0.3	3.0	...			3	0.5	4.0
21	0	(3)	0.3	3.0	1	0.1	5.6	3	0.3	3.5
	6	(3)	0.3	3.0	1	0.1	6.2	3	0.4	4.0
	12	(3)	0.3	3.0	1	0.1	6.0	3	0.3	4.0
	18	(3)	0.3	3.0	...			3	0.5	4.0
22	0	(3)	0.2	3.0	1	0.1	6.3	3	0.3	4.0
	6	(3)	0.2	3.0	...			0,0		
	12	(3)	0.2	3.0	...			0,0		
	18	(3)	0.3	4.0	1	0.1	5.8	0,0		
23	0	(3)	0.2	4.0	...			0,0		
	6	(3)	0.2	4.0	1	0.1	6.4	0,0		
	12	(3)	0.2	4.0	1	0.1	6.2	0,0		
	18	(3)	0.5	4.0	1	0.2	6.0	0,0		

DOMINION OBSERVATORIES

DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
July	24	0	(3)	0.5	4.0	1	0.2	6.2	0,0		
		6	(3)	0.6	4.0	1	0.2	6.1	0,0		
		12	(3)	0.1	1.0	1	0.25	6.2	0,0		
		18	(3)	0.4	3.0	1	0.2	6.8	0,0		
	25	0	(3)	0.4	3.5	...			0,0		
		6	(3)	0.4	3.5	1	0.2	7.2	0,0		
		12	(3)	0.5	3.3	...			0,0		
		18	(1)	0.5	3.5	1	0.25	6.3	3	0.5	4.0
	26	0	(1)	1.2	4.0	1	0.2	6.8	3	0.4	4.0
		6	(1)	1.2	4.0	1	0.3	6.1	3	0.5	4.0
		12	(1)	1.2	4.0	1	0.4	5.8	3	0.4	4.0
		18	(1)	1.2	4.0	...			3	0.2	3.5
	27	0	(1)	1.4	4.3	2	0.8	6.0	3	0.3	3.5
		6	(1)	1.5	5.0	...			3	0.3	4.0
		12	(1)	2.2	5.0	2	0.8	5.8	3	0.4	4.5
		18	(1)	2.6	6.0	2	0.7	6.2	3	0.3	4.0
	28	0	(1)	2.7	6.2	2	0.6	6.2	3	0.3	4.0
		06	(1)	2.0	5.4	2	0.6	6.3	0,0		
		12	(1)	1.3	4.5	1	0.25	6.2	0,0		
		18	(1)	0.9	4.5	1	0.3	5.4	0,0		
	29	0	(1)	0.7	4.0	1	0.2	5.2	0,0		
		6	(1)	0.6	4.0	1	0.2	5.9	0,0		
		12	(3)	0.6	4.0	1	0.1	6.1	0,0		
		18	(3)	0.5	4.0	1	0.1	7.2	0,0		
	30	0	(3)	0.5	4.0	1	0.1	7.4	0,0		
		6	(3)	0.5	4.0	1	0.1	6.5	0,0		
		12	(3)	0.5	4.0	1	0.2	6.3	0,0		
		18	(3)	0.3	3.6	1	0.1	6.3	0,0		
	31	0	(3)	0.4	3.7	1	0.2(5)	6.2	0,0		
		6	(3)	0.5	3.6	...			0,0		
		12	(3)	0.5	3.3	1	0.3(5)	5.5	0,0		
		18	(3)	0.6	3.6	...			0,0		
Aug.	1	0	(3)	0.7	4.0	3	0.2	5.7	0,0		
		6	(3)	0.5	3.6	1	0.2	4.7	0,0		
		12	(3)	0.4	3.6	1	0.2	5.5	3	0.4	4.5
		18	(3)	0.4	3.6	...			3	0.3	4.5
	2	0	(3)	0.3	3.0	1	0.2	6.0	3	0.3	4.0
		6	(3)	0.3	3.0	1	0.2	5.9	3	0.4	4.0
		12	(1)	0.4	3.0	1	0.2	5.5	3	0.4	4.0
		18	(1)	0.9	3.6	1	0.1(5)	4.2	0,0		
	3	0	(1)	0.9	3.3	...			0,0		
		06	(1)	1.6	4.5	1	0.3	4.5	0,0		
		12	(1)	1.4	4.0	1	0.3	4.6	0,0		
		18	(1)	1.4	4.0	1	0.3	4.2	0,0		
	4	0	(1)	1.2	4.0	1	0.3(5)	4.3	0,0		
		6	(1)	1.2	4.0	1	0.3	4.1	0,0		

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DATE		HOUR	OTTAWA			RESOLUTE			VICTORIA		
			K	A	T	K	A	T	K	A	T
Aug.	4	12	(1)	0.9	4.0	1	0.3	4.1	0,0		
		18	(1)	1.3	4.3	...			0,0		
	5	0	(1)	1.2	4.0	1	0.3	4.2	0,0		
		6	(1)	1.2	4.0	...			0,0		
		12	(1)	1.0	4.0	1	0.3	4.4	0,0		
		18	(1)	0.9	4.0	...			0,0		
	6	0	(1)	1.1	3.7	3	0.2(5)	4.8	0,0		
		6	(1)	1.7	3.8	3	0.4	6.2	0,0		
		12	(1)	1.4	3.8	3	0.4	5.5	0,0		
		18	(1)	1.0	3.5	...			0,0		
	7	0	(1)	0.9	3.6	3	0.3	4.2	0,0		
		6	(1)	1.0	3.5	3	0.3	3.9	0,0		
		12	...			...			0,0		
		18	(3)	0.5	3.5	...			0,0		
	8	0	(3)	0.4	3.0	3	0.2	4.2	0,0		
		6	(3)	0.4	3.0	...			0,0		
		12	(3)	0.4	3.0	3	0.2	6.0	0,0		
		18	(3)	0.4	3.5	...			0,0		
	9	0	(3)	0.5	3.5	1	0.1	6.1	0,0		
		6	(3)	0.5	3.3	...	.		0,0		
		12	(3)	0.4	3.0	1	0.1	6.0	0,0		
		18	(3)	0.5	3.5	1	0.1	5.7	0,0		
	10	0	(3)	0.5	3.5	...			0,0		
		6	(3)	0.5	3.5	...			0,0		
		12	(3)	0.5	3.5	...			0,0		
		18	(3)	0.5	3.3	1	0.1	5.8	0,0		
	11	0	(3)	0.9	3.3	...			0,0		
		6	(3)	0.4	3.0	1	0.2	4.8	0,0		
		12	(3)	0.4	3.5	1	0.2	4.7	0,0		
		18	(3)	0.4	3.0	1	0.2	4.6	0,0		
	12	0	(3)	0.4	3.0	...			0,0		
		6	(3)	0.6	3.0	1	0.3	4.0	0,0		
		12	...			...			0,0		
		18	(3)	0.5	3.3	...			0,0		
	13	0	(3)	0.5	3.3	1	0.6	4.0	0,0		
		6	(3)	0.5	3.3	1	0.6	3.8	0,0		
		12	(3)	0.6	3.3	1	0.4	3.8	0,0		
		18	(3)	0.6	3.3	1	0.4	4.0	0,0		
	14	0	(3)	0.4	3.0	1	0.4	4.0	0,0		
		6	(3)	0.4	3.0	1	0.4	3.6	0,0		
		12	(3)	0.4	3.0	1	0.4	4.0	0,0		
		18	(3)	0.4	3.0	1	0.4	3.9	0,0		
	15	0	(3)	0.4	3.0	1	0.4	3.7	0,0		
		6	(3)	0.4	3.0	1	0.4	3.8	0,0		
		12	(3)	0.4	3.0	...			0,0		
		18	(3)	0.4	3.0	1	0.5	4.0	0,0		

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Aug. 16	0	(3)	0.3	3.0	1	0.4	4.1	0,0		
	6	(3)	0.3	3.0	1	0.3	5.3	0,0		
	12	(3)	0.3	3.0	1	0.3	6.0	3	0.5	5.5
	18	(3)	0.2	3.0	...			3	0.4	5.0
17	0	(3)	0.2	3.0	1	0.4	6.3	3	0.5	5.0
	6	(3)	0.2	3.0	1	0.4	6.6	3	0.7	5.5
	12	(3)	0.3	3.0	1	0.3	6.0	3	0.6	5.0
	18	(3)	0.3	3.0	1	0.2	5.5	0,0		
18	0	...			...			0,0		
	6	(3)	0.3	3.0	1	0.3	5.6	0,0		
	12	(3)	0.3	3.0	...			3	0.3	5.0
	18	...			...			3	0.3	5.5
19	0	(3)	0.7	3.8	...			3	0.4	4.5
	6	(3)	1.1	3.8	...			3	0.4	5.0
	12	(1)	1.1	3.8	...			3	0.4	5.0
	18	(1)	1.2	4.0	1	0.3	4.4	0,0		
20	0	(1)	1.2	4.0	1	0.5	5.4	0,0		
	6	(1)	1.3	4.5	1	0.7	5.6	0,0		
	12	(1)	1.3	4.5	1	0.7	5.8	0,0		
	18	(1)	1.5	5.0	1	0.7	5.6	0,0		
21	0	(1)	1.5	5.0	1	0.7	5.7	0,0		
	6	(1)	5.1	7.2	1	1.0	7.2	3	0.3	4.0
	12	(1)	5.0	7.0	1	1.8	7.4	3	0.3	4.0
	18	(1)	3.5	6.0	...			3	0.5	4.0
22	0	(1)	3.5	6.0	1	1.1	6.3	0,0		
	6	(1)	3.5	6.0	1	1.1	6.0	0,0		
	12	(1)	2.8	5.5	1	0.5	5.7	0,0		
	18	(1)	1.7	5.0	...			0,0		
23	0	(1)	1.9	5.0	1	0.3	5.2	0,0		
	6	(1)	1.4	4.0	3	0.2	4.6	0,0		
	12	(1)	1.3	4.0	3	0.2	4.2	0,0		
	18	(1)	0.7	3.5	3	0.2	4.5	0,0		
24	0	(1)	0.7	4.0	1	0.2	4.2	0,0		
	6	(1)	0.8	4.1	...			0,0		
	12	(1)	0.7	4.0	3	0.2	4.0	0,0		
	18	(1)	0.7	4.0	...			0,0		
25	0	...			...			0,0		
	6	(3)	0.6	4.0	1	0.3	3.7	0,0		
	12	(3)	0.6	4.0	1	0.3	3.4	0,0		
	18	(3)	0.6	4.0	1	0.4	4.0	0,0		
26	0	(3)	0.6	4.0	1	0.4	3.8	0,0		
	6	(3)	0.6	4.0	1	0.2	5.0	0,0		
	12	(3)	0.6	4.0	...			0,0		
	18	(1)	0.5	4.0	3	0.4	4.4	0,0		
27	0	(1)	0.5	3.4	1	0.4	4.8	0,0		
	6	(1)	0.5	4.0	1	0.6	4.8	0,0		

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Aug. 27	12	(1)	0.5	4.0	1	0.5	5.0	0,0		
	18	(1)	0.5	4.0	1	0.4	4.5	0,0		
28	0	(1)	0.5	4.0	...			0,0		
	6	(1)	0.5	4.0	1	0.5	4.0	0,0		
	12	(1)	0.6	4.0	1	0.5	4.0	0,0		
	18	(1)	0.5	4.0	1	0.2	3.8	0,0		
29	0	(1)	0.5	4.0	1	0.2	4.0	0,0		
	6	(1)	0.5	4.0	...			0,0		
	12	(1)	0.5	4.0	...			0,0		
	18	...			...			0,0		
30	0	...			3	0.2	4.2	0,0		
	6	...			3	0.1(5)	5.0	0,0		
	12	...			3	0.1(5)	5.0	0,0		
	18	(3)	0.5	4.0	3	0.1(5)	5.0	0,0		
31	0	(3)	0.5	4.0	...			0,0		
	6	(3)	0.5	4.0	1	0.2	4.8	0,0		
	12	(3)	0.5	4.0	3	0.2	4.8	3	0.2	3.0
	18	(3)	0.5	4.0	3	0.2	5.0	3	0.3	3.0
Sept. 1	0	(3)	0.5	4.0	3	0.1	5.6	0,0		
	6	(3)	0.5	4.0	...			0,0		
	12	(3)	0.5	4.0	...			0,0		
	18	(3)	0.5	4.0	1	0.2	4.7	0,0		
2	0	(3)	0.5	4.0	1	0.1(5)	5.0	0,0		
	6	(3)	0.6	4.0	1	0.1	5.4	0,0		
	12	(1)	0.7	4.0	1	0.3	5.5	3	0.1	2.2
	18	(1)	0.7	4.0	1	0.3	5.5	3	0.1	2.2
3	0	(1)	0.7	4.0	1	0.2	5.5	3	0.1	2.0
	6	(1)	0.6	4.0	1	0.2	5.5	3	0.1	2.5
	12	(1)	0.5	4.0	...			3	0.1	2.5
	18	(1)	0.6	4.0	1	0.2	4.5	0,0		
4	0	(1)	0.5	4.0	1	0.2	4.5	3	0.1	2.5
	6	(1)	0.4	3.0	1	0.2	4.5	3	0.1	2.5
	12	(1)	0.3	2.3	1	0.2	4.7	3	0.1	1.8
	18	(1)	0.4	3.1	1	0.2	4.7	3	0.2	2.0
5	0	(1)	0.4	3.5	1	0.2	5.2	3	0.2	2.0
	6	(1)	0.5	3.5	1	0.4	5.1	2	0.3	2.2
	12	(1)	0.7	3.5	1	0.5	4.3	2	0.4	2.6
	18	(1)	1.4	5.0	1	0.6(5)	4.6	2	0.3	1.7
6	0	(1)	2.1	5.5	1	0.7	5.5	3	0.2	2.5
	6	(1)	2.8	6.0	1	0.9	5.2	3	0.1	1.7
	12	(1)	3.5	6.0	1	0.6	5.4	3	0.1	2.0
	18	(1)	3.5	6.0	1	0.6(5)	5.4	3	0.3	3.0
7	0	(1)	3.3	6.0	1	0.4	5.3	3	0.2	3.0
	6	(1)	2.5	5.7	1	0.3	4.8	3	0.2	3.0
	12	(1)	1.2	5.0	...			3	0.1	2.0
	18	...			1	0.5	4.0	3	0.1	1.5

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Sept. 8	0	...			1	0.5	3.8	3	0.1	1.5
	6	...			1	0.4	3.9	2	0.3	2.0
	12	...			...			3	0.2	2.0
	18	...			...			2	0.3	2.5
9	0	...			...			3	0.1	2.0
	6	...			1	0.4	3.8	0,0		
	12	...			1	0.7	4.4	3	0.1	2.0
	18	...			1	0.7	5.3	3	0.2	2.0
10	0	...			1	0.7	6.0	3	0.1	2.0
	6	...			1	0.6	6.3	...		
	12	...			1	0.4(5)	5.8	3	0.2	3.5
	18	...			1	0.3	5.0	3	0.1	2.5
11	0	(3)	0.5	4.0	3	0.2	5.0	3	0.3	3.0
	6	(3)	0.6	4.0	3	0.2	5.3	3	0.4	3.0
	12	(1)	0.5	3.3	1	0.4	4.0	3	0.1	2.5
	18	(1)	0.7	3.3	1	0.6	4.4	0,0		
12	0	(1)	1.7	4.0	1	0.7	4.5	3	0.2	2.5
	6	(1)	2.1	4.0	1	0.7(5)	4.9	3	0.2	2.2
	12	(1)	1.9	4.4	...			...		
	18	(1)	1.1	4.3	1	0.7	5.2	3	0.2	2.5
13	0	(1)	0.7	4.0	1	0.6	4.7	3	0.1	2.5
	6	(1)	0.7	4.0	3	0.5	5.0	3	0.1	2.0
	12	(3)	0.7	4.0	3	0.4	4.3	3	0.1	2.5
	18	(3)	0.6	4.0	3	0.4	4.0	0,0		
14	0	(3)	0.6	4.0	...			3	0.1	2.0
	6	(3)	0.6	4.0	3	0.2	4.9	3	0.1	2.2
	12	(3)	0.5	3.5	3	0.2	5.6	3	0.2	2.5
	18	(3)	0.5	3.5	...			...		
15	0	(1)	1.6	4.6	...			3	0.2	2.0
	6	(1)	3.4	5.4	...			3	0.2	2.5
	12	(1)	4.8	5.5	1	2.3	6.0	3	0.3	3.0
	18	(1)	4.8	5.5	1	2.7	6.2	3	0.4	3.0
16	0	(1)	4.8	5.5	1	2.7	6.0	3	0.4	3.0
	6	(1)	4.1	5.5	1	2.0	5.5	3	0.3	3.0
	12	(1)	2.9	5.0	1	1.4	5.2	3	0.1	2.5
	18	(1)	2.7	5.0	...			3	0.1	2.5
17	0	(1)	2.2	5.0	1	0.9	4.9	3	0.2	2.5
	6	(1)	2.2	5.0	1	1.2	4.8	3	0.1	2.5
	12	(1)	1.4	5.0	1	1.2	4.8	3	0.1	2.5
	18	(1)	1.2	4.5	1	0.9	4.8	3	0.1	2.5
18	0	(1)	1.2	4.5	...			0,0		
	6	(3)	0.9	4.5	1	0.4	4.9	3	0.1	2.5
	12	(3)	0.6	4.0	...			3	0.2	2.5
	18	(3)	0.6	4.0	3	0.3	5.8	3	0.4	2.5
19	0	(3)	0.6	4.0	3	0.3(5)	4.3	...		
	6	(3)	0.6	4.0	3	0.3	5.3	3	0.4	3.0

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
Sept. 19	12	(3)	0.7	4.0	3	0.7	3.9	3	0.3	2.5
	18	(1)	0.6	4.0	1	0.8(5)	4.5	3	0.2	2.5
20	0	(1)	0.6	4.0	1	1.4	5.0	3	0.3	2.5
	6	(1)	0.8	4.4	1	1.2	4.8	3	0.3	3.0
	12	(1)	0.7	4.5	1	1.3	4.7	3	0.2	2.5
	18	(3)	0.7	4.5	1	1.1	4.5	3	0.3	2.5
21	0	(3)	0.9	4.5	1	1.1	4.7	3	0.1	2.0
	6	(3)	0.7	4.5	1	0.7	4.2	3	0.1	2.0
	12	(3)	0.7	4.5	1	0.7(5)	4.4	0,0		
	18	(3)	0.6	4.0	1	0.7	4.4	0,0		
22	0	(3)	0.5	4.0	1	0.7	4.3	0,0		
	6	(3)	0.4	3.5	1	0.4	4.5	0,0		
	12	(1)	0.6	4.0	1	0.3	4.2	0,0		
	18	(1)	0.6	4.0	1	0.3	3.8	0,0		
23	0	(1)	0.7	4.0	1	0.2(5)	4.2	0,0		
	6	(1)	0.6	4.0	1	0.2	4.2	0,0		
	12	(1)	0.7	4.0	1	0.2	4.1	0,0		
	18	(3)	0.7	4.0	1	0.2	4.2	0,0		
24	0	(3)	0.6	4.0	3	0.2	4.4	0,0		
	6	(3)	0.6	4.0	...			0,0		
	12	(3)	0.5	4.0	...			0,0		
	18	(3)	0.5	4.0	1	0.2	5.8	0,0		
25	0	(3)	0.5	4.0	3	0.2	6.6	3	0.1	3.0
	6	(3)	0.5	4.0	...			3	0.1	3.0
	12	(3)	0.4	3.5	...			3	0.2	3.0
	18	(3)	0.5	3.5	3	0.3	4.6	3	0.3	3.0
26	0	(3)	0.5	3.6	3	0.2	6.2	3	0.2	3.0
	6	(3)	0.6	4.0	3	0.2(5)	4.9	3	0.2	3.0
	12	(3)	0.6	4.0	1	0.3	5.7	3	0.2	3.0
	18	(3)	0.7	4.6	1	0.2(5)	5.3	3	0.2	3.0
27	0	(3)	0.7	4.6	1	0.2	5.1	3	0.2	2.0
	6	(3)	0.5	4.0	1	0.2	4.7	3	0.2	2.0
	12	(3)	0.4	3.6	1	0.2	4.7	3	0.3	2.5
	18	(3)	0.6	4.0	1	0.2(5)	5.0	...		
28	0	(3)	0.6	4.2	1	0.4	4.4	3	0.2	2.5
	6	(3)	0.8	4.4	1	0.4	5.5	3	0.3	2.5
	12	(3)	1.0	4.3	1	0.5	5.7	3	0.2	2.5
	18	(3)	1.0	4.4	1	0.5	5.0	3	0.1	2.5
29	0	(3)	1.0	4.5	1	0.5	5.0	3	0.1	2.5
	6	(3)	1.0	4.3	1	0.6	4.2	3	0.1	2.5
	12	(1)	1.6	4.5	1	0.6	4.8	3	0.1	2.5
	18	(1)	1.6	4.5	...			3	0.1	2.0
30	0	(1)	1.7	4.2	1	0.6	4.6	3	0.1	2.0
	6	(3)	0.6	4.0	...			3	0.1	2.0
	12	(3)	0.9	3.9	1	0.4	4.2	3	0.1	2.0
	18	(3)	1.2	4.0	1	0.6	4.6	3	0.1	2.0

SEISMOLOGICAL

of the

DOMINION OBSER

Erratum:
July - September 1959 Seismological Bulletin
Page 218 - Earthquakes listed as September 31 should read October 1

Seismological Bulletin
October - December
1959

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1960

SEISMOLOGICAL BULLETIN

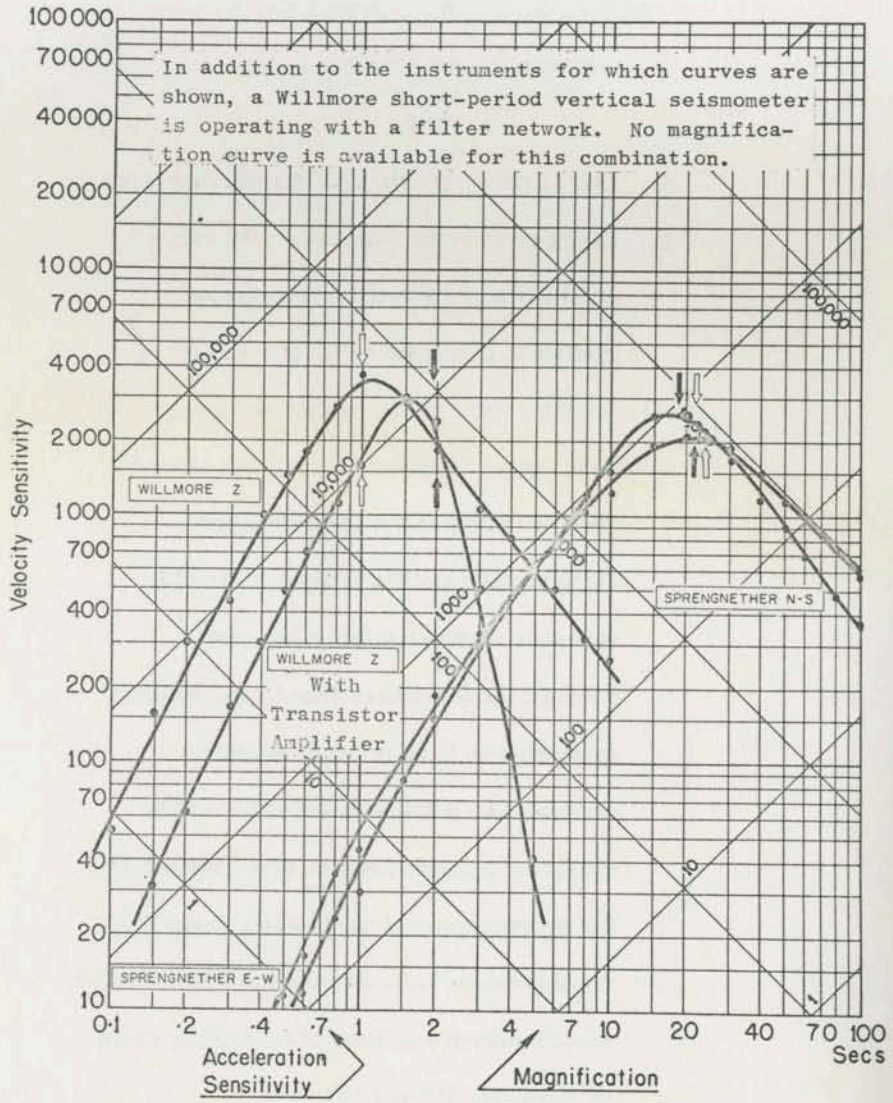
OCTOBER - DECEMBER - 1959

NOTES

1. I.G.Y. microseismic data starting page 198.
2. Earthquakes in the Canadian Arctic may be found in their respective chronological position in the bulletin with epicentre locations found on pages 193 and 194.
3. Earthquakes in Eastern Canada and Adjacent areas may be found in their respective chronological position in the bulletin with epicentre locations found on page 195.
4. Earthquakes in Western Canada and Adjacent areas may be found in their respective chronological position in the bulletin with epicentre locations found on pages 196 and 197.
5. The Seismographs at the Halifax, Seven Falls and Shawinigan Falls stations were recalibrated with the curves and dates of calibration shown on pages 148, 149 and 150.

CALIBRATION CURVES

STATION: HALIFAX



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

Foundation : Carbonaceous slate

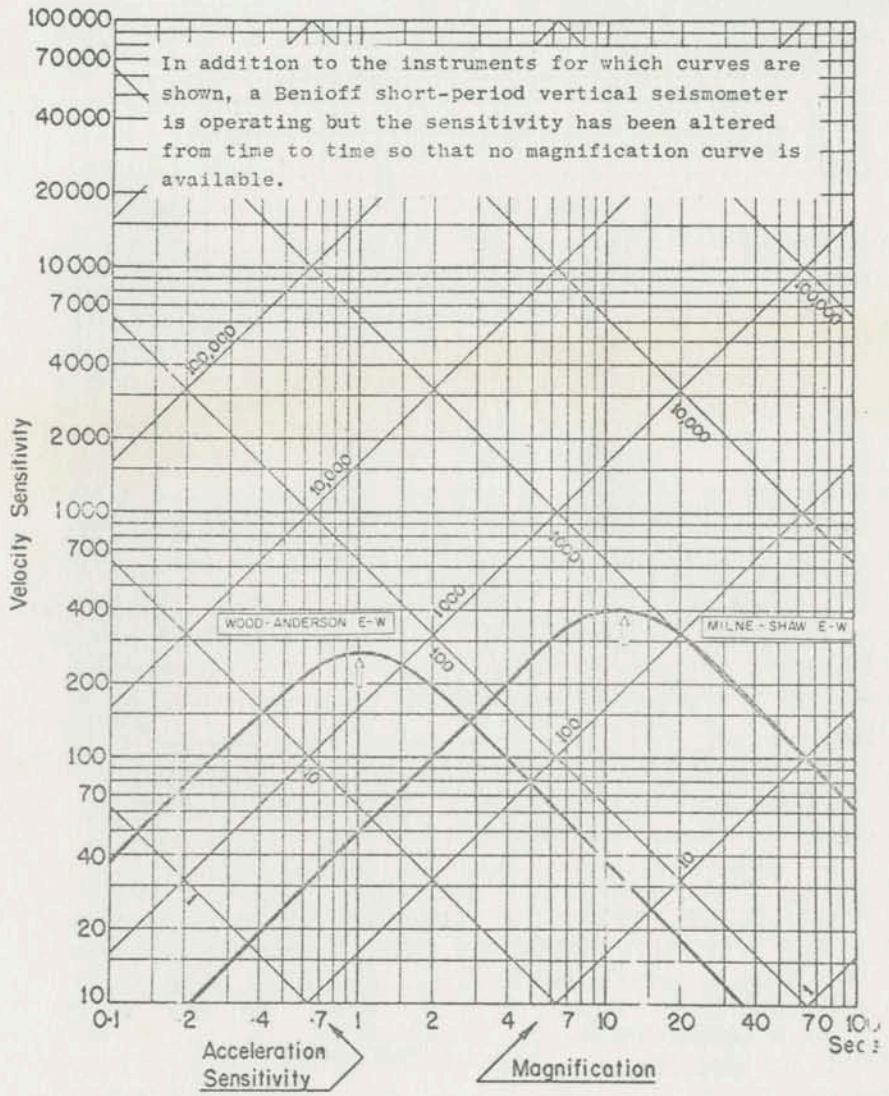
T_s ⇧ T_g ⇧

Date of Calibration: Spring, N.S. Oct. 29/59
Spring, E.W. Oct 28/59
Willmore Oct. 30/59
Willmore + AMP. Nov. 3/59

Read from end of minute mark.

CALIBRATION CURVES

STATION: SEVEN FALLS



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

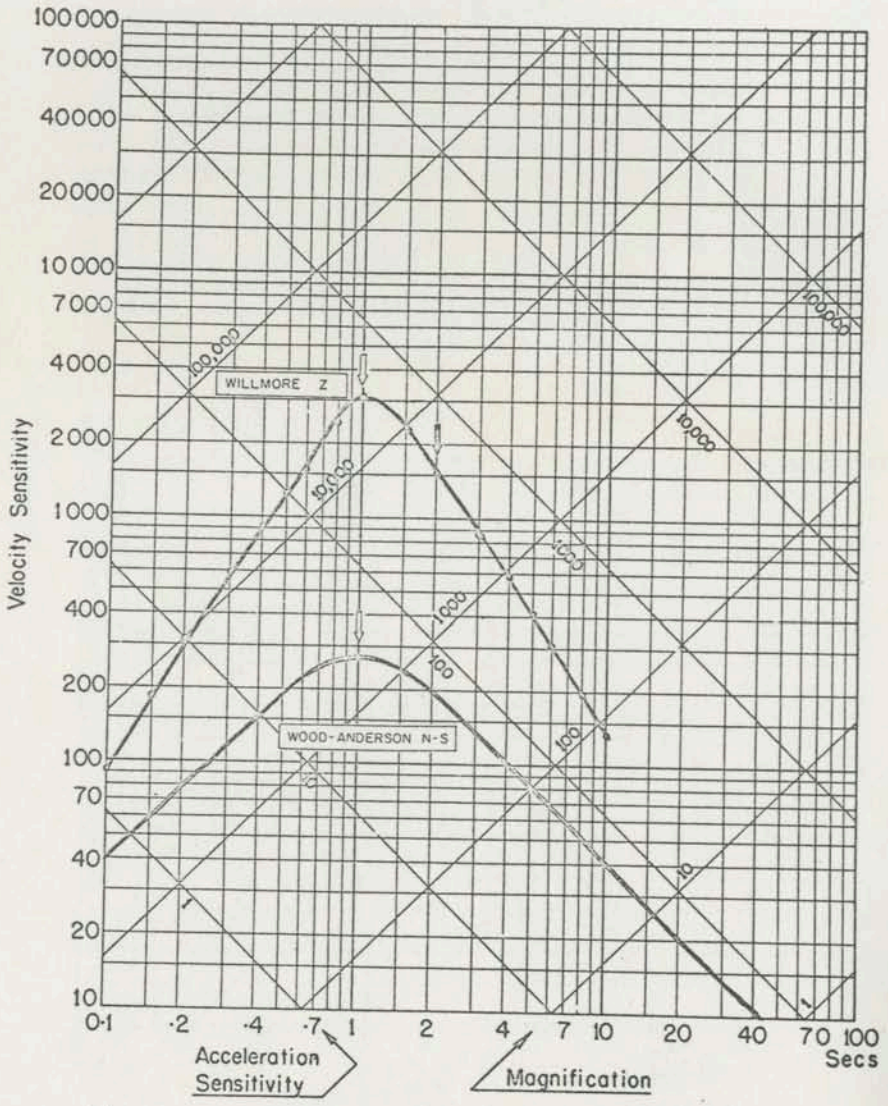
Foundation : Precambrian basement rock

T_s ⇧ T_g ⇧

Date of Calibration: Estimated

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

SEISMOLOGICAL BULLETIN - 1959

OCTOBER 1
Horseshoe Bay
eS 03 55 21
Victoria
eP 03 52 39.9
eS 03 55 05
Local shock

OCTOBER 1
U.S.C.G.S.
34N, 121W
Off coast of Southern California
H = 04 35 30
Mag 4.8
Banff
e 04 39 46
Horseshoe Bay
eP 04 39 12 c
Resolute
eP 04 43 27

OCTOBER 1
Canadian Arctic
H = 05 41 39.1
Mag 2.9
Resolute
iP_1 05 41 57.8
iS_1 05 42 12.0
D = 116 km

OCTOBER 1
Resolute
e(P) 07 24 49 c
i(P) 07 24 49.5 d

OCTOBER 1
Canadian Arctic
H = 11 00 50.6
Mag 2.4
Resolute
iP_1 11 01 09
iS_1 11 01 23
D = 115 km

OCTOBER 1
Resolute
e(P) 13 20 42

OCTOBER 2
Canadian Arctic
H = 05 55 40.4
Mag 2.7
Resolute
iP_1 05 55 58.8
iS_1 05 56 12.8
D = 115 km

OCTOBER 2
Canadian Arctic
H = 06 57 33.5
Mag 2.7
Resolute
iP_1 06 57 51.9
iS_1 06 58 05.9
D = 115 km

OCTOBER 2
H = 10 51 52.2
Horseshoe Bay
iP 10 52 17.6 c
iS 10 52 37.4
Local shock

OCTOBER 2
Resolute
i(P) 20 14 26.5 c
e 20 14 44

OCTOBER 3
Resolute
e(P) 00 38 (35)
e 00 39 29

OCTOBER 3
Horseshoe Bay
eP 12 17 35

OCTOBER 3
Victoria
iP 17 27 19.5 d,N,W

OCTOBER 3
U.S.C.G.S.
42N, 146E
Off east coast of Hokkaido, Japan
H = 20 02 40
Resolute
iP 20 12 24 c
P_cP 20 13 26

OCTOBER 4
Resolute
e(P) 15 41 36

OCTOBER 4
Resolute
e(P) 16 32 11
e 16 36.1
L 16 37.2

OCTOBER 5
Resolute
e(P) 04 20 53
e 04 23 45
e 04 25 32

OCTOBER 5
Alberni
eP 09 (32) (20)
Saskatoon
iP 09 33 30
Victoria
eP 09 28 48

OCTOBER 5
U.S.C.G.S.
45N, 111 1/2W
Hebgen Lake aftershock
H = 11 33 14
Banff
e 11 34 49
Horseshoe Bay
eP 11 34 58.6
Resolute
eL 11 47 08

DOMINION OBSERVATORIES

Victoria
eP 11 35 23
eS 11 37 37

OCTOBER 5
U.S.C.G.S.
52 1/2N, 171W
Fox Islands,
Aleutian Islands
H = 11 34 01
Ottawa
eP 11 44 01
Resolute
eP 11 41 13
ePcP 11 43 32
Seven Falls
eP 11 44 10
Shawinigan Falls
eP 11 44 06

OCTOBER 5
U.S.C.G.S.
84N, 113E
North Polar region
H = 17 56 25
Ottawa
eP 18 05 28
Resolute
eP 18 01 10
i 18 01 17
eS 18 05 12
eL 18 06.4

OCTOBER 5
Resolute
eP 18 09 41

OCTOBER 5
U.S.C.G.S.
84N, 113E
North Polar region
H = 18 11 18
Ottawa
eP 18 20 23
Resolute
eP 18 16 (13)
eS 18 19 50
eL 18 22.0
Shawinigan Falls
eP 18 20 14

OCTOBER 5
U.S.C.G.S.
83 1/2N, 112 1/2E
North Polar region
H = 18 27 47
Mag 5 3/4 - 6
Banff
eP 18 35 52
Halifax
eP 18 36 54
eS 18 43 23
e(SSS) 18 48.2
Ottawa
eP 18 36 51
Resolute
eP 18 32 (35)
i 18 32 42
iS 18 36 24
iL 18 37.8
Shawinigan Falls
eP 18 36 42
Victoria
e 18 36 07 c
eL 18 49.0

OCTOBER 5
Resolute
e(P) 20 32 54
e(S) 20 36 46
e(L) 20 38.7

OCTOBER 5
U.S.C.G.S.
41N, 20E
Albania
H = 20 34 04
Banff
eP 20 46 19
Horseshoe Bay
eP 20 45 39
Ottawa
eP 20 44 52
Resolute
eP 20 43 (52)
eS 20 51.6
Shawinigan Falls
eP 20 44 35
Victoria
eP 20 46 44 d

OCTOBER 6
Banff
eP 01 42 58
Horseshoe Bay
eP 01 43 32
eS 01 46 03
Victoria
eP 01 45 26
e 01 47 52

OCTOBER 6
Resolute
eP 01 57 (26)

OCTOBER 6
U.S.C.G.S.
1/2N, 122 1/2E
Celebes
H = 05 44 37
h = 200 km
Ottawa
eP' 06 03 32
SKP 06 06 46
Resolute
eS 06 09.5
PS 06 11.2
SS 06 16 52
Shawinigan Falls
eP' 06 03 33
SKP 06 06 45

SEISMOLOGICAL BULLETIN - 1959

OCTOBER 6
H = 10 04 15.8
Mag 1.5
Horseshoe Bay
P 10 04 32.8 c
S 10 05 46.5
D = 110 km

OCTOBER 6
H = 10 06 00.2
Mag 1.3
Victoria
eP 10 06 07.4 d
e(S) 10 06 13.0
D = 45 km

OCTOBER 6
U.S.C.G.S.
45N, 111 1/2W
Hebgen Lake aftershock
H = 11 37 21
Alberni
eP 11 (36) (22)
Banff
eP 11 39 06
eS 11 41 00
Horseshoe Bay
iP 11 39 36
e 11 42 37
Resolute
e 11 53 (19)
e 11 53 30
Victoria
eP 11 41 17
e 11 43 43

OCTOBER 6
Resolute
e 17 31 10
e 17 33 30
e 17 37 31

OCTOBER 6
H = 21 47 13
Mag 1.9
Banff
iP 21 47 18.0
iS 21 47 22.2
D = 34 km

OCTOBER 6
49.6N, 114.7W
Crowsnest Area
Mag 2.4
Banff
eP 22 04 00.2
eS 22 04 21.7

OCTOBER 7
Canadian Arctic
H = 03 02 21.0
Mag 2.7
Resolute
iP1 03 02 39.4
iS1 03 02 53.4
D = 115 km

OCTOBER 7
Canadian Arctic
H = 03 49 09.6
Mag 2.1
Resolute
iP1 03 49 28.0
iS1 03 49 42.1
D = 115 km

OCTOBER 7
U.S.C.G.S.
41N, 20E
Albania
H = 08 30 39
Banff
iP 08 42 55 d
Halifax
iP 08 40 41 c
i 08 40 48 d
i 08 40 52 d
eS 08 48 31
Horseshoe Bay
iP 08 -- -- c
Ottawa
eP 08 41 28 c
Resolute
iP 08 40 28 c
PcP 08 41 23
eS 08 48 22
e 08 48 47
ScS 08 50 16
SS 08 52 08
eL 08 54.3
Shawinigan Falls
iP 08 41 12 c
Victoria
eP 08 44 16 c,S,W

OCTOBER 7
Resolute
e(P) 14 19 53
eL 14 39.0

OCTOBER 7
Resolute
e(P) 17 55 53

OCTOBER 7
Resolute
e(P) 23 18 45

OCTOBER 8
U.S.C.G.S.
19S, 169E
New Hebrides Island
H = 00 03 28
Resolute
PS 00 32.0
SS 00 38.5
e 00 41.0
eL 00 48.2

OCTOBER 8
U.S.C.G.S.
52 1/2N, 171W
Fox Islands
Aleutian Islands
H = 02 35 20
Banff
eP 02 41 03
Ottawa
iP 02 45 19 c
Resolute
eP 02 42 31
iP 02 42 45
P_cP 02 44 53
eS 02 48 36
L 02 50.6
S_cS 02 52.6
Shawinigan Falls
eP 02 45 24

OCTOBER 8
U.S.C.G.S.
19 1/2N, 73 1/2W
Haiti
H = 10 55 12
Ottawa
eP 11 00 54
Resolute
eP 11 04 58.5 c
iP 11 04 59 d
e(S) 11 13.2
eL 11 20.7
Shawinigan Falls
eP 11 01 02

OCTOBER 8
U.S.C.G.S.
52 1/2N, 107E
Lake Baikal, U.S.S.R.
H = 14 14 10
Resolute
eP 14 23 20 d
iP 14 23 21 c
eS 14 30.5
(SS) 14 34 40
L 14 37.5

OCTOBER 9
Resolute
e 04 14 16
e 04 16 40
e 04 17.5

OCTOBER 9
Resolute
e(P) 04 57 18

OCTOBER 9
Resolute
e(P) 11 15 38

OCTOBER 9
U.S.C.G.S.
9N, 126E
Near north coast of Mindanao, Philippine Islands
H = 11 09 27
Resolute
eP 11 22 (41)

OCTOBER 9
Resolute
e(P) 19 12 17

OCTOBER 10
Resolute
e(P) 02 16 49

OCTOBER 10
Banff
eP 13 31 55
Horseshoe Bay
eP 13 34 54
Victoria
eP 13 (33) (52)

OCTOBER 10
Resolute
e(P) 13 46 21
e 13 47 01

OCTOBER 10
Resolute
e(P) 16 35.0

OCTOBER 10
Resolute
e(P) 19 05 18

OCTOBER 11
Resolute
i 00 53 01.5

OCTOBER 11
Resolute
i 03 50 52
i 03 50 55

OCTOBER 11
U.S.C.G.S.
41 1/2N, 142E
Near coast of northern Honshu, Japan
H = 09 33 44
Ottawa
eP 09 46 33
Resolute
iP 09 43 41 c
iP 09 43 59
eS 09 51.5
e 09 52 08
SS 09 55 40

OCTOBER 11
Resolute
e(P) 12 27 47

OCTOBER 11
U.S.C.G.S.
5 1/2S, 147E
Near north coast of New Guinea
H = 20 03 10
Resolute
PS 20 30.5
SS 20 36.0

OCTOBER 11
U.S.C.G.S.
28 1/2S, 176 1/2W
Kermadec Islands region
H = 20 03 25
Resolute
PS 20 33 06

OCTOBER 11
Resolute
e(P) 21 50 23
e 21 50 34

OCTOBER 12
Resolute
e(P) 01 17 29
e 01 23.6
e 01 27.0
e 01 31.6
e 01 35.5

OCTOBER 12
Resolute
e(P) 01 50 02

OCTOBER 12
U.S.C.G.S.
2N, 98 1/2E
Near coast of Sumatra
H = 03 21 52
Banff
eP' 03 40 45
Resolute
eP 03 35 54 d
eP 03 36 10
PP 03 40 10
PPP 03 42.4
SKS 03 46 30
S 03 47.5
PS 03 49.2
e 03 49 32
SS 03 54 32
Shawinigan Falls
eP' 03 41 06
SKP 03 44 27

OCTOBER 12
U.S.C.G.S.
19S, 68 1/2W
Northern Chile - Bolivia border
H = 03 43 44
h = 150 km
Banff
eP 03 55 46
Halifax
iP 03 54 01 c
i(SP) 03 54 33 c
e 04 01 10
eS 04 02.4
Ottawa
iP 03 54 07 c
Resolute
eP 03 56 53
pP 03 57 26
Seven Falls
eP 03 54 19
Shawinigan Falls
eP 03 54 14

OCTOBER 12
Resolute
e(P) 08 50 08 c

OCTOBER 12
Resolute
e(P) 10 09 16 c

OCTOBER 12
Resolute
e 14 06 26
e 14 08 22
e 14 09.0

OCTOBER 12
U.S.C.G.S.
7S, 155 1/2E
Solomon Islands
H = 19 21 50
Resolute
e 19 39 (03)
PS 19 49.1
SS 19 55 04
L 20 03.4

OCTOBER 12
Resolute
e 22 24 30
e 22 27 15
e 22 29 11

OCTOBER 13
Resolute
e 13 12 25

OCTOBER 13
Resolute
e(P) 13 36 54

DOMINION OBSERVATORIES

OCTOBER 13
U.S.C.G.S.
9S, 79 1/2W
Near coast of
Peru
H = 20 52 25
Resolute
eP 21 04 59

OCTOBER 13
Resolute
e 23 38 15

OCTOBER 14
U.S.C.G.S.
51 1/2N, 176W
Andreanof Islands
Aleutian Islands
H = 08 01 04
Banff
eP 08 08 14
Resolute
eP 08 08 30
P_cP 08 10 40

OCTOBER 14
Resolute
i 11 25 03

OCTOBER 15
U.S.C.G.S.
19N, 104W
Jalisco, Mexico
H = 04 22 49
h = 200 km
Resolute
eP 04 32 11
e 04 40 28
e 04 44 20

OCTOBER 15
48°48'N, 125°45'W
West coast of
Vancouver Island
H = 04 51 12.2
Mag 2
Alberni
iP 04 51 20.3
e 04 51 28.1
D = 64 km
Horseshoe Bay
iP 04 51 32.3
e 04 51 49.4
D = 138 km
Victoria
iP 04 51 30.6
e 04 51 44.7
D = 128 km

OCTOBER 15
U.S.C.G.S.
1/2N, 120 1/2E
Celebes
H = 06 15 32
Mag 6 1/2
Halifax
iP' 06 35 00 d
ePP 06 37 24
e(PPP) 06 41 10
eSS 06 54.9
eSSS 07 00 49
Ottawa
eP' 06 34 52
PP 06 37 12
PKS 06 38 16
PS 06 47 38
SS 06 54 00
Resolute
eP 06 29 39
e 06 31 02
e 06 32 18
e 06 33.0
PP 06 33 46
(PPP) 06 35 26
e 06 38.7
SKS 06 40.1
iS 06 40.9
PS 06 42 16
i 06 42.7
(PPS) 06 43.7
SS 06 47.8
(PSPS) 06 49.0
L 06 56.6
Seven Falls
eP' 06 34 52
PP 06 37 08
PKS 06 38 15
Shawinigan Falls
eP' 06 34 53
PP 06 37 08
PKS 06 38 15

OCTOBER 15
Resolute
eP 07 25 00

OCTOBER 15
U.S.C.G.S.
Tonga Islands region
H = 07 31 47
Resolute
e(P) 07 43 22
e 07 44 05

OCTOBER 15
U.S.C.G.S.
44N, 148E
Kurile Islands
H = 07 40 20
Ottawa
iP 07 52 48 d

Resolute
eP 07 49 50.5 c
iP 07 49 51 d
i 07 50 25

OCTOBER 15
Resolute
e(P) 14 13 25

OCTOBER 15
U.S.C.G.S.
Fox Islands
Aleutian Islands
H = 20 33 45
Resolute
eP 20 40 54
e 20 41 37

OCTOBER 16
Resolute
e(P) 00 05 36

OCTOBER 16
U.S.C.G.S.
30 1/2S, 69W
San Juan Province,
Argentina
H = 01 15 08
h = 100 km
Resolute
(sPS) 01 43.4
Seven Falls
iP 01 26 56
pP 01 27 25
Shawinigan Falls
eP 01 26 53
pP 01 27 21

OCTOBER 16
Resolute
e(P) 08 20.0
e 08 28.2

OCTOBER 16
Ottawa
eP 09 00 32 c
Resolute
eP 09 04 (11)
Shawinigan Falls
eP 09 00 41

OCTOBER 16
U.S.C.G.S.
6N, 125E
Near south coast
of Mindanao, Philippine
Islands
H = 16 14 53
Resolute
PP 16 33 20
PPP 16 35 40
SKS 16 39 46
S 16 40.8
PS 16 42 10
e 16 45 10
SS 16 48.5

OCTOBER 16
48.5N, 124.7W
North of Cape Flattery
H = 17 54 23.8
Mag 2.2
Alberni
iP 17 54 37.5 d
e 17 54 47.5
D = 86 km
Victoria
eP 17 54 39.5 d,SW
S 17 54 51.9
D = 98 km

OCTOBER 17
Resolute
eP 01 43 00
e 02 06.5
e 02 11.2

OCTOBER 17
Canadian Arctic
H = 05 11 48.8
Mag 2.4
Resolute
iP_1 05 12 07.2
iS_1 05 12 21.2
D = 115 km

OCTOBER 17
Resolute
i(P) 07 32 21.5 d

OCTOBER 17
U.S.C.G.S.
57 1/2S, 161W
South Pacific Ocean
H = 08 35 00
Resolute
SS 09 16 32
SSS 09 21 08
e(L) 09 39.3

OCTOBER 17
Resolute
e(P) 13 27 17
e 13 27 29
e 13 34 16
e 13 39 04

OCTOBER 17
U.S.C.G.S.
60N, 138 1/2W
Yukon - British
Columbia border
H = 20 27 35
Banff
eP 20 31 16
Ottawa
eP 20 35 05
Resolute
eP 20 32 26 (d)
iP 20 32 27 d
iS 20 36 23
e 20 39 00
i 20 39 10
e 20 40.7
Victoria
eP 20 32 02

OCTOBER 18
U.S.C.G.S.
South of Honshu
Japan
H = 05 44 04
Resolute
eP 05 55 06

OCTOBER 18
45°54'N, 75°07'W
Near Cheneville,
Quebec
H = 07 47 21.7
Mag 2.6
Montreal
S_1 07 47 57.7
D = 126 km
Ottawa
P_1 07 47 33.4
S_1 07 47 42.3
D = 73.0 km
Shawinigan Falls
S_1 07 48 14.9
D = 195 km

OCTOBER 18
Resolute
i 11 59 36
i 11 59 55.5

OCTOBER 18
Resolute
e(P) 14 14 (22)

OCTOBER 18
U.S.C.G.S.
50 1/2N, 156E
Off south coast
of Kamchatka
H = 17 06 13
Ottawa
iP 17 17 54 c
Resolute
eP 17 14 44 d
iP 17 14 44.5 c
i 17 15 16
i(P_cP) 17 16 21

OCTOBER 18
Resolute
eP 19 49 54 c
(PP) 19 51 48
eS 19 56.3
SS 19 59.4
L 20 01.7

OCTOBER 19
U.S.C.G.S.
30S, 178W
Kermadec Islands
H = 01 25 26
h = 60 km
Ottawa
eP' 01 44 22
Resolute
eP' 01 44 17

OCTOBER 19
U.S.C.G.S.
25 1/2S, 177 1/2W
South of Fiji Islands
H = 02 12 55
Resolute
eP' 02 31 28
Victoria
eP 02 26 59

OCTOBER 19
U.S.C.G.S.
44 1/2N, 148E
Kurile Islands
H = 02 46 49
Ottawa
iP 02 59 15 c
Resolute
eP 02 56 18 c
iP 02 56 19.5 d
iP_cP 02 57 22
PP 02 58 33
e 03 01 31
eS 03 04 10
e 03 04.5
(S_cS) 03 06.5
SS 03 07.7

Seven Falls
eP 02 59 16
Shawinigan Falls
iP 02 59 16 c
Victoria
eP 02 (57) (57)

OCTOBER 19
U.S.C.G.S.
27 1/2S, 177W
Kermadec Islands
H = 08 27 21
Mag 6 1/4
Resolute
eP' 08 46 02
eS 08 54 54
PS 08 56.3
SS 09 02 48
SSS 09 06 44
L 09 13.9
G 09 14.4
Victoria
eP 08 (41) (34)

OCTOBER 19
U.S.C.G.S.
22S, 179 1/2W
Fiji Islands region
H = 13 52 40
h = 600 km
Banff
eP 14 04 49
Resolute
eP' 14 10 06
SS 14 25 28
(sSS) 14 29 26
Victoria
eP 14 (05) (36)

OCTOBER 19
U.S.C.G.S.
54 1/2S, 29W
Sandwich Islands
region
H = 15 55 30
Alberni
eP 16 (07) (45)
e 16 (10) (10)
Halifax
iSS 16 28 43
Ottawa
eP' 16 14 11
Resolute
eP' 16 14 (41)
iP' 16 14 55
i 16 15 35
PP 16 17 32
PKS 16 18 25
SKKKS 16 24.5
SKSP 16 27 32
PPS 16 29.5
PPPS 16 30.6
SS 16 35.5
(PSPS) 16 36 20
SSS 16 40.0
L 16 53.4
Victoria
eP 16 (15) (56)
eL 17 01.7

OCTOBER 19
Resolute
e 16 27 13

OCTOBER 19
Resolute
e(P) 17 01 45

OCTOBER 19
Resolute
e 20 05 45

OCTOBER 20
U.S.C.G.S.
44 1/2N, 140E
Sea of Japan
H = 08 00 46
Resolute
iP 08 10 31 d

OCTOBER 20
Resolute
e(P) 17 37 (12)

OCTOBER 20
Resolute
e 19 02 24

OCTOBER 20
Canadian Arctic
H = 23 29 19.8
h = 26 km
Mag 3.4
Resolute
P_n 23 29 56.0
P_1 23 30 01.3
S_n 23 30 22.9
S_1 23 30 33
D = 258 km

OCTOBER 21
Resolute
e 06 26 34

OCTOBER 21
65°N, 87° W (Ottawa)
Near Southampton
Island, N.W.T.
H = 07 46 17
Mag 5.3 (Ottawa)
Montreal
L_g 07 56 47
D = 2350 km

Ottawa
S_n 07 54 16
L_g 07 56 33
D = 2300
Resolute
P_n 07 48 52
S_n 07 50 48
L_g 07 51 50
D = 1200 km
Seven Falls
L_g 07 56 03.3
D = 2194 km
Shawinigan Falls
L_g 07 56 07.9
D = 2210 km

OCTOBER 21
48.9N, 125.7W
H = 08 04 36.5
Mag 1
Alberni
P 08 04 48.6 c
S 08 04 57.8
D = 76 km
Victoria
eP 08 05 10.4
S 08 05 26.1
D = 176 km

OCTOBER 22
50.2N, 124.1W
Head of Jervis Inlet
H = 01 10 03.8
Mag 2.5
Alberni
P 01 10 22.5
S 01 10 37.7
D = 117 km
Victoria
iP 01 10 33.9 c
S 01 10 56.4
D = 193 km

DOMINION OBSERVATORIES

OCTOBER 22
48.0N, 122.1W
Everett, Washington State
H = 03 37 27.6
Mag 2.7
Alberni
P_1 03 38 02.5
P_n 03 38 03.0
S 03 38 32.3
D = 244 km
Horseshoe Bay
S - P = 22.2 "
D = 182 km
Victoria
iP 03 37 46.3
e 03 37 51.5
D = 130 km

OCTOBER 22
Resolute
e 03 58 (42)
e 04 01 35
e 04 01 47
e 04 03 09

OCTOBER 22
Resolute
eP 10 31 41

OCTOBER 22
Resolute
i 14 14 53
i 14 29 53

OCTOBER 22
Resolute
e 16 15 (23)

OCTOBER 22
Resolute
e 16 32 (45)

OCTOBER 22
U.S.C.G.S.
52 1/2N, 170 1/2W
Fox Islands
Aleutian Islands
H = 19 27 08
Resolute
eP 19 34 19

OCTOBER 23
U.S.C.G.S.
20 1/2S, 68 1/2W
Chile - Bolivia border
H = 06 17 54
h = 200 km
Ottawa
eP 06 28 25
Seven Falls
eP 06 28 34

OCTOBER 23
Resolute
e(P) 07 45 30
e 07 47 02

OCTOBER 23
Resolute
e(P) 11 10 (51)

OCTOBER 24
48°17'N, 124°38'W
Due south of Neah Bay, Washington
H = 00 34 47.1
Mag 2.1
Alberni
eP 00 35 04.9
S 00 35 19.4
D = 111 km
Horseshoe Bay
eP 00 35 12.5
iS 00 35 31.7
D = 158 km
Victoria
eP 00 35 02.4
eS 00 35 14.0
D = 95 km

OCTOBER 24
Resolute
eP 05 13 13

OCTOBER 24
U.S.C.G.S.
50 1/2N, 130W
Vancouver Island region
H = 13 43 39
Resolute
eP 13 49 (53)
e(S) 13 53.2
e 13 54 32
eL 13 56.4

OCTOBER 24
Resolute
e 16 33 04

OCTOBER 24
Resolute
e 19 54 (13)

OCTOBER 24
Horseshoe Bay
eP 22 53 29 c

OCTOBER 24
U.S.C.G.S.
41 1/2N, 70E
Kazakh, S.S.R.
H = 23 40 34
Halifax
iP 23 53 15
Ottawa
eP 23 53 28
Resolute
eP 23 51 07 c
PP 23 53.4
e 23 56.0
eS 23 59 40
(SS) 24 03.2

Seven Falls
eP 23 53 14
Shawinigan Falls
iP 23 53 19 c

OCTOBER 25
Canadian Arctic
H = 02 07 42
Mag 2.9
Resolute
P_n 02 08 42
S_1 02 09 43
D = 430 km

OCTOBER 25
Resolute
e 06 46 55

OCTOBER 25
U.S.C.G.S.
Atlantic Ocean north of Azores
H = 06 51 09
Resolute
eP 06 59 09.5 d
eS 07 05 26
L 07 08.2

OCTOBER 25
Resolute
i 07 59 28

OCTOBER 25
U.S.C.G.S.
39N, 42E
Eastern Turkey
H = 15 57 51
Resolute
eP 16 08 (21)
eS 16 16.7
(SS) 16 21 22
eL 16 23.8
Shawinigan Falls
eP 16 09 48

OCTOBER 26
Resolute
i 05 57 16

OCTOBER 26
U.S.C.G.S.
37 1/2N, 142 1/2E
Near east coast of Honshu, Japan
H = 07 35 12
h = 60 km
Mag 6 1/2
Alberni
eP 07 (37) (08)
Halifax
eS 07 59.6
eSS 08 06.3
e 08 13.3
eL 08 18.1
Horseshoe Bay
eP 07 45 47
Ottawa
eP 07 48 11
Resolute
eP 07 45 27.5 (c)
iP 07 45 31 d
iPP 07 47 51
e 07 48 11
PPP 07 49 14
eS 07 53 40
i 07 53 52
S_cS 07 55.3
SS 07 57.2
eL 08 02.2
Seven Falls
eP 07 48 14
Shawinigan Falls
eP 07 48 13
Victoria
eP 07 45 52 c
eS 07 54 34

OCTOBER 26
Resolute
e 07 54 11
e 07 54 19

OCTOBER 26
Resolute
eP 08 30 41.5 (d)

OCTOBER 26
Resolute
e 09 44 (14)

OCTOBER 26
U.S.C.G.S.
51 1/2N, 157 1/2E
Near east coast of Kamchatka
H = 10 29 09
h = 150 km
Alberni
iP 10 (29) (55) c
Horseshoe Bay
eP 10 37 33 c
Ottawa
eP 10 40 26
Resolute
iP 10 37 15 d
P_cP 10 38 53
PP 10 39 04
pPP 10 39 25
eS 10 43 44
sS 10 44 32
S_cS 10 47.0
G 10 47.6
Shawinigan Falls
eP 10 40 30
Victoria
iP 10 37 43 c

OCTOBER 26
Resolute
eP 10 42 34 d

OCTOBER 26
Resolute
eP 11 02 40

DOMINION OBSERVATORIES

OCTOBER 26
Resolute
e 11 26 29

OCTOBER 26
Resolute
eP 13 02 (28)
i 13 02 38

OCTOBER 27
U.S.C.G.S.
42 1/2N, 127W
Off coast of
Oregon
H = 06 12 17
Mag 5 - 5 1/4
Alberni
iP 06 13 59.7
Banff
iP 06 15 05 d
Halifax
eS 06 27.2
eSS 06 30 33
eL 06 32.6
Horseshoe Bay
iP 06 14 04.3 d
S 06 14 23.1
Ottawa
eP 06 19 26
Resolute
eP 06 19 14 d
e 06 20.1
PP 06 20 27
eS 06 24 46
eL 06 26.6
Saskatoon
iP 06 19 35 d
S 06 21 45
Shawinigan Falls
eP 06 19 39
Victoria
eP 06 13 54.5 d,S
eS 06 14 55
i 06 15 28

OCTOBER 27
U.S.C.G.S.
45 1/2N, 151E
Kurile Islands
H = 06 52 50
h = 100 km
Mag 6 1/2
Alberni
iP 07 02 07
Banff
iP 07 02 37 d
Horseshoe Bay
iP 07 02 12
Ottawa
iP 07 04 54 c
Resolute
iP 07 01 54.5 c
pP 07 02 26
PP 07 04.0
PPP 07 05 17
P_cS 07 07.1
S_c 07 09 11
S_cS 07 11.2
SS 07 13.0
sSS 07 13.5
SSS 07 15.0
Seven Falls
eP 07 04 57
Shawinigan Falls
iP 07 04 56 c
S 07 14 56
Victoria
iP 07 02 18 c,S,E
iS 07 10 00
eL 07 18.7

OCTOBER 27
U.S.C.G.S.
46N, 151E
Kurile Islands
H = 13 18 51
Resolute
eP 13 28 03 c
P_cP 13 29 14
eS 13 35.5
Shawinigan Falls
eP 13 31 04

OCTOBER 27
Resolute
eP 14 17 04

OCTOBER 27
Resolute
eP 22 27 (10)

OCTOBER 28
Resolute
e 00 16 19

OCTOBER 28
Resolute
i 10 34 39

OCTOBER 28
Resolute
e(P) 11 39 57

OCTOBER 29
U.S.C.G.S.
46N, 151E
Kurile Islands
H = 10 35 20
Ottawa
iP 10 47 33 d
Resolute
eP 10 44 33 c
iP 10 44 33.5 d
P_cP 10 45 46
eS 10 52.2
eL 10 58.3
Shawinigan Falls
eP 10 47 34
Victoria
eP 10 44 57

OCTOBER 29
Resolute
e 12 01 57

SEISMOLOGICAL BULLETIN - 1959

OCTOBER 29
U.S.C.G.S.
29 1/2S, 176 1/2W
Kermadec Islands
H = 14 19 51
h = 60 km
Mag 5 3/4
Alberni
iP 14 32 55
Banff
iP 14 33 20
Ottawa
eP' 14 38 39
Resolute
eP' 14 38 34
PS 14 49.3
SS 14 55.8
SSS 15 00.2
Victoria
eP 14 32 57

OCTOBER 29
U.S.C.G.S.
43N, 131E
China - Korea border
H = 14 30 24
h = 550 km
Mag 6 1/4
Alberni
eP 14 40 25 d,S,E
Banff
eP 14 40 43 d
Horseshoe Bay
iP 14 40 26
Ottawa
iP 14 42 23 c
Resolute
iP 14 39 33 c
iP_cP 14 40 16
iPP 14 41 24
S_cP 14 43 22
iS 14 46 55
e 14 47 06
S_cS 14 48 22
sS 14 50 20
SS 14 51.4
G 14 54.4
Seven Falls
eP 14 42 19 c
Shawinigan Falls
iP 14 42 21 c
pP 14 44 21
Victoria
iP 14 40 32 c,S,E

OCTOBER 29
U.S.C.G.S.
Off coast of southern
Honshu, Japan
H = 19 49 45
Resolute
eP 20 00 32 c
iP 20 00 32.5 d

OCTOBER 29
Resolute
e 22 22 (52)

OCTOBER 30
U.S.C.G.S.
8 1/2N, 138E
Caroline Islands
H = 00 32 29
Resolute
eP 00 45 34
eS 00 56.6
PS 00 57 40
SS 01 03.0
SSS 01 06.5
L 01 09.7

OCTOBER 30
49°19'N, 124°07'W
South of Lasqueti Island
H = 01 25 20.7
Mag 1.3
Alberni
eP 01 25 29.4
e 01 25 36.0
D = 55 km
Horseshoe Bay
iP 01 25 30.2 c
e 01 25 37.4
D = 60 km
Victoria
S 01 25 53.2
D = 103 km

OCTOBER 30
U.S.C.G.S.
66N, 136 1/2E
Yakutsk U.S.S.R.
H = 04 00 26
Halifax
iP 04 11 32 c
Horseshoe Bay
iP 04 09 20 c
Ottawa
eP 04 11 15
Resolute
eP 04 07 27 c
iP 04 07 27.5 d
P_cP 04 09 54
eS 04 13.1
eL 04 15.5
Seven Falls
eP 04 11 09
Shawinigan Falls
eP 04 11 12 c

OCTOBER 30
U.S.C.G.S.
4S, 80 1/2W
Peru - Ecuador border
H = 05 20 36
Halifax
eP_cP 05 30 54
Ottawa
eP 05 29 28
Resolute
eP 05 32 41

OCTOBER 30
U.S.C.G.S.
7S, 123 1/2E
Flores Sea
H = 06 24 38
Resolute
PS 06 53.2
PPS 06 54.2
SS 06 59 10
SSS 07 03 15
eL 07 09.9

OCTOBER 30
U.S.C.G.S.
19S, 177 1/2W
Fiji Islands
H = 07 04 48
h = 450 km
Banff
eP 07 17 04
Horseshoe Bay
iP 07 16 31 d
Victoria
eP 07 16 31 d

OCTOBER 30
U.S.C.G.S.
Solomon Islands
H = 11 10 16
Ottawa
eP' 11 29 29
Shawinigan Falls
eP' 11 29 32

OCTOBER 30
U.S.C.G.S.
Sandwich Islands region
H = 11 27 33
Resolute
eP' 11 47 02
e 11 50 37

OCTOBER 30
Resolute
e(P) 13 23 (22)
e 13 26 (42)

OCTOBER 30
U.S.C.G.S.
23 1/2 S, 175 1/2W
Tonga Islands
region
H = 13 58 25
Resolute
SKS 14 23 42
eS 14 25.2
PS 14 27 08
e 14 27.5
e 14 29.9
SS 14 32.9
PSPS 14 33 40
SSS 14 37 02
eL 14 43 20

OCTOBER 30
U.S.C.G.S.
19S, 177 1/2W
Fiji Islands
H = 21 37 35
h = 600 km
Ottawa
eP' 21 54 50

OCTOBER 30
Resolute
e 22 46 28

OCTOBER 31
U.S.C.G.S.
16 1/2S, 178W
Fiji Islands
H = 04 27 12
h = 450 km
Mag 6 1/2 - 6 3/4
Alberni
eP 04 (31) (15)
Banff
iP 04 38 39 c
Horseshoe Bay
eP 04 38 44 c
Ottawa
eP' 04 44 56

Resolute
eP 04 40 29.5 d
iP 04 40 30 c
sP 04 43 02
pPP 04 46.6
e 04 47.0
PPP 04 47.3
SKS 04 50.5
S 04 51 40
SP 04 53 28
PS 04 54 34
pPS 04 55 15
sPS 04 56.1
e 04 58.5
SS 04 59 10
sSS 05 01 16
e 05 02.1
G 05 09.0
Victoria
eP 04 38 42

OCTOBER 31
Resolute
e 17 10 58

OCTOBER 31
U.S.C.G.S.
2N, 77 1/2W
Southern Colombia
H = 18 31 18
h = 100 km
Banff
iP 18 41 07 d
Horseshoe Bay
P 18 41 26
Ottawa
eP 18 39 17 c
Resolute
eP 18 42 42 c
Seven Falls
eP 18 39 33
Victoria
eP 18 41 23

OCTOBER 31
44N, 125W
Off coast of Oregon
H = 19 22 24.2
Mag 4.0
Alberni
eP 19 23 42.4
D = 586 km
Horseshoe Bay
eP 19 23 49.2
D = 620 km
Victoria
eP 19 23 52.3
D = 520 km

OCTOBER 31
48.3N, 123.0W
Strait of Juan de
Fuca
H = 19 43 56.7
Mag 2.0
Horseshoe Bay
iP 19 44 15.9
e 19 44 17.8
S 19 44 30.6
D = 120 km
Victoria
eP 19 44 03.4
D = 42 km

OCTOBER 31
Resolute
e(P) 19 49 (20)

OCTOBER 31
Canadian Arctic
H = 19 20 23.6
Mag 3.1
Resolute
P_1 19 21 07
S_1 19 21 41
D = 270 km

OCTOBER 31
Resolute
e 19 36 18
e 19 37 08

OCTOBER 31
Resolute
e 20 01 40

NOVEMBER 1
Resolute
eP 09 30 22
i 09 33 18

NOVEMBER 1
Resolute
i 11 38 09 c

NOVEMBER 1
U.S.C.G.S.
45N, 111W
Hebgen Lake
H = 23 03 25
Victoria
eP 23 05 41

NOVEMBER 2
U.S.C.G.S.
22 1/2N, 144 1/2E
Mariana Islands region
H = 08 43 54
Resolute
eP 08 55 47 c
iP 08 55 47.3 d
iP 08 56 07
eS 09 05 27
ScS 09 06 16
PPS 09 06.4
eL 09 16.0
Victoria
eP 08 55 43

NOVEMBER 2
U.S.C.G.S.
22N, 144 1/2E
Volcano-Mariana Islands
region
H = 09 02 20

Resolute
eP 09 14 03.5
(PcP) 09 14 15
(PP) 09 17 08

NOVEMBER 2
Resolute
e 12 13 29
e 12 34.2

NOVEMBER 2
Resolute
e 12 57 53

NOVEMBER 2
U.S.C.G.S.
21 1/2N, 92 1/2E
Pakistan - Burma
border
H = 13 15 40
Resolute
eP 13 28 05
(PPP) 13 33.1
eS 13 38.0

NOVEMBER 2
Resolute
eP 13 36 10.5 d
iP 13 36 11 c
e 13 40 --
e 13 41 --

NOVEMBER 2
Resolute 19 23 15

NOVEMBER 2
U.S.C.G.S.
5 1/2S, 151 1/2E
New Britain
H = 20 03 32
h = 60 km
Mag 6 3/4
Ottawa
eP' 20 22 27
Resolute
eP 20 17 18
PP 20 21 16
PPP 20 21 45
SKS 20 28 08

S 20 29.2
PS 20 30 20
pPS 20 30.5
SS 20 36.1
sSS 20 36 46
SSS 20 40.0
G 20 45 52

NOVEMBER 3
U.S.C.G.S.
3 1/2N, 126 1/2E
Molucca Passage
H = 00 32 19
Resolute
eP 00 46 00

NOVEMBER 3
Resolute
e(P) 02 02 20

NOVEMBER 3
Resolute
e(P) 06 07 24

NOVEMBER 3
U.S.C.G.S.
10 1/2S, 111E
South of Java
H = 09 40 05
Halifax
iP' 09 59 53d
i 10 00 01
iPP 10 03 09
Horseshoe Bay
iP' 10 (00) (25)d
Ottawa
iP' 09 59 45d
PP 10 03 03
Resolute
eP' 09 58 48d
iP' 09 58 48.5c
PP 09 59 48
eS 10 07 20
PS 10 09 14
PPS 10 10 28
e 10 11.6
SS 10 15 34
PSPS 10 16.4
ScSScS 10 19.6
SSS 10 19.9
e 10 21.3
(SKPP') 10 23.1
L 10 26.7
Seven Falls
eP' 09 59 41(c)
ePP 10 02 54 d
Victoria
iP' 09 59 03 d

NOVEMBER 3
Resolute
e 10 09 (26)

NOVEMBER 3
Resolute
iP 19 08 27c

NOVEMBER 3
Resolute
eP 20 40 44

NOVEMBER 4
Resolute
e(P) 05 36 36

NOVEMBER 5
U.S.C.G.S.
41 1/2S, 153E
New Britain Islands region
H = 05 45 23
Ottawa
eP' 06 04 10

NOVEMBER 5
47.1N, 124.8W
Off coast of Washington
H = 07 47 36.2
Alberni
eP 07 48 13.7
eS 07 48 45.2
D = 239 km
Horseshoe Bay
iP 07 48 19.5d
eS 07 48 53.3
D = 277 km
Victoria
iP 07 48 06.8
S 07 48 30.9
D = 190 km

NOVEMBER 5
U.S.C.G.S.
13S, 166 1/2E
New Hebrides region
H = 11 50 17
h = 100 km
Banff
e 12 03 24
Horseshoe Bay
iP 12 (04) (23)d
Ottawa
eP' 12 09 21
Resolute
PP 12 08.6
SKS 12 14.9
eS 12 16.1
PS 12 17.8
PPS 12 18 56
SS 12 23.5
sSS 12 24.0
G 12 33.3
Victoria
e 12 03 07

NOVEMBER 5
U.S.C.G.S.
30N, 129E
Ryukyu Islands region
H = 14 59 37
Resolute
eP 15 10 32d
(PcP) 15 10 41
pP 15 11 34
eS 15 19 20
sSP 15 21 40
(SS) 15 24 26
G 15 29.1

NOVEMBER 5
U.S.C.G.S.
9S, 158E
Solomon Islands
H = 17 37 40
Resolute
SS 18 10 26

NOVEMBER 5
U.S.C.G.S.
9S, 157 1/2E
Solomon Islands
H = 17 38 08
Resolute
SKS 18 02 52
eS 18 04.0
PS 18 05 28
SS 18 11.2
(SSS) 18 15.4
(ScSScS) 18 15 44

NOVEMBER 6
U.S.C.G.S.
9S, 157 1/2E
Solomon Islands
H = 01 07 31
Resolute
SKS 01 32 14
eS 01 33.3
PS 01 34.9
PPS 01 35 45
SS 01 40 22
e 01 46.4
G 01 50.0

NOVEMBER 6
U.S.C.G.S.
9S, 157 1/2E
Solomon Islands
H = 01 11 36
Resolute
PS 01 39 04

NOVEMBER 6
Resolute
eP 07 47 01

NOVEMBER 6
U.S.C.G.S.
24S, 174 1/2W
Tonga Islands region
H = 11 43 06
Banff
eP 11 56 17
Resolute
eP' 12 01 42
eS 12 10.1
PS 12 11 44
PPS 12 12 44
e 12 16 10
SS 12 18.1
Victoria
iP 11 55 49d

NOVEMBER 6
Resolute
eP 22 08 43d

NOVEMBER 7
Resolute
eP 01 18 44
e 01 20 40

NOVEMBER 7
U.S.C.G.S.
36 1/2N, 2 1/2E
Near coast of Algeria
H = 02 32 07
Ottawa
eP 02 42 01
Resolute
eP 02 41 56.5(d)
PcP 02 42 43
eS 02 51 52
ScS 02 55.9
L 03 30 —

NOVEMBER 7
Resolute
eP 03 10 33
i 03 10 38

NOVEMBER 7
U.S.C.G.S.
23 1/2S, 175 1/2W
Tonga Islands region
H = 22 16 15
Mag 6 1/4
Resolute
e 22 36.7
SKS 22 41.5
eS 22 43.1
PS 22 44 44
SS 22 50 48
e 22 52 40
SSS 22 54.9
eL 23 01.6
Victoria
eP 22 28 56

NOVEMBER 8
Resolute
eP 00 01 42

NOVEMBER 8
U.S.C.G.S.
44N, 140 1/2E
Near west coast of Hokkaido Japan
H = 13 54 55
Mag 6 1/2
Alberni
iP 14 05 12
Banff
iP 14 04 36d
Horseshoe Bay
iP 14 (06) (49)
Ottawa
eP 14 07 36
S 14 18 05
Resolute
eP 14 04 36.5c
iP 14 04 57
PcP 14 05 20
PP 14 06 21
PPP 14 08 10
S 14 12 23
ScS 14 14 28
SS 14 16.2
eL 14 17.1
Seven Falls
eP 14 07 35
eS 14 17 58
Shawinigan Falls
iP 14 07 35c
Victoria
iP 14 05 21c,s,e

DOMINION OBSERVATORIES

NOVEMBER 9
U.S.C.G.S.
18 1/2N, 103W
Mexico
H = 00 05 36
Ottawa
eP 00 12 31
Resolute
eP 00 15 17
(P_cP) 00 16 24
eS 00 23 16
SS 00 27.2
L 00 29.3
i 00 35 38
i 00 40.0

NOVEMBER 9
Resolute
eP 02 24 32

NOVEMBER 9
Resolute
eP 02 52 49

NOVEMBER 9
Resolute
e 04 58 12
e 04 58 44

NOVEMBER 10
Resolute
eP 10 55 41

NOVEMBER 10
U.S.C.G.S.
7S, 156E
Solomon Islands
H = 16 40 45
Resolute
eP 16 54 40

NOVEMBER 10
Resolute
eP 18 20 42

NOVEMBER 11
48.4N, 122.5W
Mount Vernon,
Washington
H = 02 38 39.5
Mag 2.1
Horseshoe Bay
iP 02 38 59.3
S 02 39 14.8
D = 124 km
Victoria
eP 02 38 50.7
iS 02 38 58.9
D = 70 km

NOVEMBER 13
Banff
eP 04 08 05

NOVEMBER 14
Resolute
eP 02 23 24

NOVEMBER 14
Resolute
eP 06 31 28
e 06 31 40

NOVEMBER 14
U.S.C.G.S.
3S, 148 1/2E
Bismarck Sea
H = 10 33 56
Resolute
eS 10 59 16
SS 11 05.5
e 11 11 38
eL 11 14 --

NOVEMBER 14
U.S.C.G.S.
Guatemala - El
Salvador border
H = 12 13 27
Resolute
eP 12 23 41
eS 12 32.1
eL 12 38.5

NOVEMBER 14
Alberni
iP 17 (50) (49)
Victoria
iP 17 59 59 c,N

NOVEMBER 15
Resolute
e 00 04 52

NOVEMBER 15
U.S.C.G.S.
38N, 74 1/2E
Tadzhik S.S.R.
H = 10 25 03
Banff
eP 10 38 11
Halifax
ePS 10 48 30
Ottawa
eP 10 38 24
Resolute
eP 10 36 02
iP 10 36 14
PP 10 38 31
PPP 10 40.5
S 10 44.8
S_cS 10 46 15
SS 10 49.5
L 10 52.0
Shawinigan Falls
iP 10 38 15 d

NOVEMBER 15
U.S.C.G.S.
37 1/2N, 20 1/2E
Near west coast of
Greece
H = 17 08 41
Banff
eP 17 21 13 c
Halifax
iP 17 18 58 c
iS 17 27 14
Horseshoe Bay
eP 17 (23) (11)
Ottawa
eP 17 19 46
S 17 28 48
S_cS 17 29 44
e 17 32 12
SS 17 33 10
e 17 34 05
SSS 17 36 22
G 17 38 20
Resolute
eP 17 18 52 c
iP 17 18 55
PP 17 21.1
PPP 17 22.4
e 17 23 22
iS 17 27 04
S_cS 17 28.7
SS 17 31.0
Seven Falls
eP 17 19 20
PP 17 21 51
S 17 27 58
S_cS 17 29 09
SSS 17 34 32
G 17 35.9
Shawinigan Falls
iP 17 19 32 c
Victoria
eP 17 21 38 c
eS 17 32 09

NOVEMBER 15
U.S.C.G.S.
Greece aftershock
H = 17 31 25
Resolute
eP 17 41 38

NOVEMBER 16
U.S.C.G.S.
35S, 70W
Chile Argentina
border
H = 00 59 22
h = 100 km
Resolute
PS 01 28 04
SS 01 34.1
SSS 01 38.0

NOVEMBER 16
Resolute
e 09 56 08

NOVEMBER 16
U.S.C.G.S.
1N, 26 1/2W
Mid-Atlantic Ocean
H = 10 21 17
Banff
eP 10 34 12
Ottawa
eP 10 31 39
Resolute
eP 10 33 47
eS 10 44 10
PPS 10 45.1
eL 11 00.5

NOVEMBER 16
Canadian Arctic
H = 11 48 56.9
Mag 3.6
Resolute
P_1 11 49 32
S_1 11 49 56
L 11 50 04
D = 197 km

NOVEMBER 16
Resolute
eP 22 49 58

NOVEMBER 16
U.S.C.G.S.
4N, 126 1/2E
Talaud Islands
H = 23 43 40
Resolute
eP 23 57 (24)

NOVEMBER 16
U.S.C.G.S.
18N, 147E
Mariana Islands
H = 23 50 35
Resolute
eP 24 02 44 (c)
e 24 03 13

NOVEMBER 17
U.S.C.G.S.
11S, 66 1/2E
Indian Ocean
H = 02 32 37
Resolute
SS 03 08.5

DOMINION OBSERVATORIES

NOVEMBER 17
Resolute
eP 04 35 20

NOVEMBER 17
Resolute
eP 12 37 (05)

NOVEMBER 17
Resolute
eP 15 04 41

NOVEMBER 17
U.S.C.G.S.
30 1/2N, 94E
Sikang Province, China
H = 23 55 01
Resolute
eP 24 06 44

NOVEMBER 18
48.5N, 121.8W
Near Concrete, Washington
H = 00 10 19.6
Mag 2.2
Horseshoe Bay
eP 00 10 40.1
iS 00 11 00.4
D = 145 km
Victoria
iP 00 10 38.9 c
iS 00 10 53.7
D = 121 km

NOVEMBER 18
Resolute
eP 08 32 10

NOVEMBER 18
U.S.C.G.S.
Northern Mariana Islands region
H = 13 32 08
h = 200 km
Resolute
eP 13 43 48 c

NOVEMBER 18
Resolute
eP 14 13 06

NOVEMBER 19
Resolute
e(P) 03 15 (31)

NOVEMBER 19
U.S.C.G.S.
51 1/2N, 175 1/2W
Andreanof Islands, Aleutian Islands
H = 04 34 57
Alberni
iP 04 38 20.2 d
e 04 38 42.1
Horseshoe Bay
eP 04 38 12.4
e 04 38 26.8
Resolute
eP 04 42 (36)
eL 04 51.3
Victoria
iP 04 38 01.5 d,S,E
e 04 38 10.5

NOVEMBER 19
U.S.C.G.S.
5 1/2S, 146E
Near north coast of New Guinea
H = 11 08 32
Mag 7
Alberni
eP 11 21 49 d
Halifax
iPP 11 30 17 c
iPKS 11 31 10
ePPS 11 42 55
eSS 11 48 11
eSSS 11 53.6
Horseshoe Bay
iP 11 21 56 c
Ottawa
eP 11 27 37
PP 11 29 31
Resolute
eP 11 22 30
e 11 23 10
PP 11 26 40
e 11 27 52
PPP 11 28.8
SKS 11 33.0
S 11 34.1
PS 11 35.8
PPS 11 36.6
PKKP 11 38 34
SS 11 41.5
Seven Falls
eP 11 27 40
e 11 28 33
e(PS) 11 40.8
SS 11 48.5
G 12 02.1
Shawinigan Falls
iP 11 27 38 d
i 11 28 14 c
i 11 28 31 c
i 11 29 32
e 11 30 44
Victoria
iP 11 21 54 c

NOVEMBER 19
U.S.C.G.S.
38 1/2N, 26E
Off west coast of Turkey
H = 14 00 24
Resolute
eP 14 10 39

NOVEMBER 19
U.S.C.G.S.
Near coast of Nicaragua
H = 14 08 20
h = 60 km
Ottawa
eP 14 15 12
Resolute
eP 14 18 44
Seven Falls
eP 14 15 37

NOVEMBER 19
U.S.C.G.S.
42 1/2N, 126 1/2W
Off coast of Oregon
H = 23 53 49
Alberni
eP 23 55 33
Banff
P 23 56 33 c
Halifax
iP 24 02 03 d
eSS 24 11 58
eL 24 15.6
Horseshoe Bay
e 23 55 40
Ottawa
eP 24 00 54
Resolute
eP 24 00 46
e 24 01 18
PP 24 02 01
PPP 24 02 23
eS 24 06 18
eL 24 08.4
Saskatoon
P 24 01 00
Victoria
eP 23 55 26 d

NOVEMBER 20
Resolute
eP 00 39 26 (d)

NOVEMBER 20
Resolute
eP 05 24 48

NOVEMBER 20
Resolute
eP 10 44 (36)

NOVEMBER 20
U.S.C.G.S.
1N, 26 1/2W
Mid Atlantic Ocean
H = 19 29 38
Halifax
eP 19 39 10
e 19 39 17.5
Ottawa
eP 19 40 02
Resolute
eP 19 42 09

NOVEMBER 21
48°24'N, 122°39'W
Near Anacortes, Washington
H = 01 09 58.8
Mag 2.3
Alberni
iP 01 10 27.9
eS 01 10 39.2
D = 190 km
Horseshoe Bay
iP 01 10 08.7 c
eS 01 10 23.1
D = 115 km
Victoria
iP 01 10 09.5
iS 01 10 14.8
D = 67 km

NOVEMBER 21
48.4N, 121.3W
North west of Glacie Peak, Washington
H = 03 32 48.8
Mag 2.2
Horseshoe Bay
iP 03 33 16.9 c
eS 03 33 39.1
D = 176 km
Victoria
eP 03 33 12.7
eS 03 33 30.6
D = 154 km

NOVEMBER 21
Resolute
eP 10 55 50

NOVEMBER 21
Resolute
eP 14 55 05

NOVEMBER 21
Resolute
eP 15 25 12

NOVEMBER 22
Resolute
eP 02 30 25 c
e 02 31 29

DOMINION OBSERVATORIES

NOVEMBER 22
U.S.C.G.S.
3S, 140E
Near north coast of New Guinea
H = 12 47 56
Resolute
eP 13 01 50

NOVEMBER 22
Resolute
e 13 08 56

NOVEMBER 22
Resolute
eP 14 39 06.5

NOVEMBER 22
U.S.C.G.S.
54S, 136W
South Pacific Ocean
H = 16 26 34
Resolute
eP' 16 45 (50)
SS 17 05.6
L 17 21.0

NOVEMBER 22
Resolute
eP 19 01 09

NOVEMBER 22
U.S.C.G.S.
21 1/2S, 178 1/2W
Fiji Islands region
H = 19 34 35
h = 550 km
Halifax
iP' 19 52 33.5 (c)
Ottawa
iP 19 52 16 c
Resolute
eP 19 48 06
eP' 19 52 05
e 20 03 03
PKKP 20 03 31

NOVEMBER 23
Resolute
eP 05 07 28

NOVEMBER 23
Resolute
eP 14 13 04

NOVEMBER 23
U.S.C.G.S.
1/2S, 128 1/2E
Spice Islands
H = 14 41 42
Resolute
e(P) 14 56 (03)

NOVEMBER 23
U.S.C.G.S.
20S, 174 1/2E
Fiji Islands region
H = 16 14 47
Resolute
SS 16 49.2
L 16 59.7

NOVEMBER 23
Alberni
eP 19 31 42.1 d

NOVEMBER 23
U.S.C.G.S.
24 1/2N, 122E
Near coast of Formosa
H = 21 05 18
Alberni
eP 21 18 57
Banff
eP 21 18 16
Horseshoe Bay
eP 21 18 03 d
Resolute
eP 21 17 18 c
e 21 17 47
Victoria
eP 21 18 21 d

NOVEMBER 23
Resolute
iP 21 06 37 d

NOVEMBER 24
46°55'N, 121°47'W
Mount Rainier
H = 06 15 44.9
Mag 3.1
Alberni
eP 06 16 32.4
D = 345 km
Horseshoe Bay
iP 06 16 12.6
eS 06 16 50.5
D = 291 km
Victoria
eP 06 16 18.1 c
eS 06 16 45.3
D = 215 km

NOVEMBER 24
Resolute
eP 13 37 01

NOVEMBER 24
U.S.C.G.S.
17 1/2N, 120E
Off west coast of Luzon Islands, Philippine Islands
H = 14 57 15
Resolute
eP 15 09 55 c
e 15 10 19

NOVEMBER 24
Resolute
eP 15 49 20 (c)
e 15 49 37
e 15 50 54

NOVEMBER 24
Resolute
e 19 04 48

NOVEMBER 24
Resolute
eP 19 55 59

NOVEMBER 24
U.S.C.G.S.
7 1/2N, 37W
Atlantic Ocean
H = 20 06 35
Resolute
eP 20 18 (15)
e 20 18 26
e 20 18 44
eS 20 27 44
SS 20 32 22
SSS 20 36 16
L 20 37.7

NOVEMBER 25
Resolute
e(P) 10 57 42

NOVEMBER 25
Resolute
eP 17 43 51
e 17 57.0
e 18 03.0

NOVEMBER 25
U.S.C.G.S.
6N, 127E
South of Mindanao, Philippine Islands
H = 19 04 20
Resolute
eP 19 17 47 d

NOVEMBER 25
Resolute
e(P) 20 25 27

NOVEMBER 26
U.S.C.G.S.
1 1/2N, 127 1/2E
Halmahera
H = 00 41 35
Resolute
eP 00 55 (28)

NOVEMBER 26
Resolute
e(P) 06 19 09
e 06 19 55

NOVEMBER 26
U.S.C.G.S.
5 1/2S, 102 1/2E
Near coast of Sumatra
H = 07 06 19
Mag 6 1/2
Horseshoe Bay
eP' 07 25 16
Ottawa
eP' 07 25 32
SKP 07 28 47
Resolute
eP 07 20 56
eP' 07 24 (57)
PP 07 25 28
PPP 07 27.6
e 07 30 04
SKS 07 31.4
e(S) 07 32 40
PS 07 34 50
e 07 37 08
(SS) 07 40 10
Shawinigan Falls
eP' 07 25 51 (d)
ePP 07 28 41
Victoria
eP 07 25 43

NOVEMBER 26
Resolute
eP 08 21 40

NOVEMBER 26
U.S.C.G.S.
5 1/2S, 103E
Near coast of Sumatra
H = 23 09 23
Mag 6 3/4
Banff
eP' 23 28 25
Horseshoe Bay
eP 23 28 20
Ottawa
eP' 23 28 59
SKP 23 31 47
Resolute
eP 23 23 59
eP' 23 27 58
e 23 28.2
PP 23 28 28
e 23 29 40
PPP 23 30 46
e 23 33.2
SKS 23 34.5
(S) 23 35.5
PS 23 38 04
SS 23 44.1
Seven Falls
eP' 23 29 03
Shawinigan Falls
eP' 23 28 43
iPP 23 31 41 c
Victoria
eP' 23 28 50

NOVEMBER 27
U.S.C.G.S.
38 1/2N, 20 1/2E
Greece
H = 00 22 30
Banff
eP 00 35 03

DOMINION OBSERVATORIES

Halifax
iP 00 32 41 (d)
Resolute
eP 00 32 31.5 c
eP 00 32 32 d

NOVEMBER 27
Resolute
eP 00 36 22

NOVEMBER 27
U.S.C.G.S.
5 1/2S, 103E
Off west coast of Sumatra
H = 18 51 27
Resolute
eP' 19 10 01

NOVEMBER 27
50.1N, 123.9W
Head of Jervis Inlet
H = 22 53 09.4
Mag 2.0
Alberni
eP 22 53 28.1
e 22 53 42.3
D = 117 km
Horseshoe Bay
iP 22 53 24.6
iS 22 53 35.3
D = 95 km
Victoria
iP 22 53 47.8
iS 22 53 50.8
D = 182 km

NOVEMBER 28
Resolute
e(P) 10 08 27

NOVEMBER 28
U.S.C.G.S.
28 1/2S, 71W
Chile
H = 12 34 53
Mag 6 1/2
Halifax
iP 12 46 31 c
Horseshoe Bay
iP 12 48 58.2 c
Ottawa
eP 12 46 31
Resolute
eP 12 49 00
PP 12 53 16
SKS 12 59 50
eS 13 00 50
PS 13 02.2
e 13 02.6
PPS 13 03 28
PKKP 13 04 47
e 13 06.8
SS 13 07 32
SSS 13 11.9
eL 13 15.7
Seven Falls
eP 12 46 41 c
eS 12 56.5
Shawinigan Falls
iP 12 46 37 c
Victoria
eP 12 48 34 d

NOVEMBER 28
Resolute
e(P) 15 43 11

NOVEMBER 28
U.S.C.G.S.
13S, 167 1/2E
New Hebrides Islands
H = 22 39 13
Resolute
PP 22 57 34
eS 23 05.0
e 23 08 28
SS 23 12 16
L 23 28.4

NOVEMBER 29
U.S.C.G.S.
21S, 177W
Tonga Islands
H = 01 30 52
Resolute
eP' 01 49 18

NOVEMBER 29
U.S.C.G.S.
26 1/2S, 178W
Kermadec Islands region
H = 05 46 56
h = 300 km
Resolute
eP' 06 05 04

NOVEMBER 29
Resolute
e(P) 14 36 46

NOVEMBER 29
U.S.C.G.S.
57S, 147 1/2W
South Pacific Ocean
H = 19 17 40
Resolute
eP' 19 37 (03)
SS 19 57.8
e 19 58.8
e 20 03 03
L 20 12.1

NOVEMBER 29
Resolute
e 21 56 00

NOVEMBER 29
U.S.C.G.S.
Near south coast of Greece
H = 23 49 42
Resolute
eP 00 00 08

NOVEMBER 30
Resolute
e(P) 08 05 05

NOVEMBER 30
Resolute
eP 08 33 38 c

NOVEMBER 30
U.S.C.G.S.
44 1/2N, 80 1/2E
Sinkiang Province, China
H = 11 12 43
Resolute
eP 11 23 12
eP 11 23 23
PPP 11 27 05
eS 11 31 28
S_cS 11 33.0
e 11 33.8
SS 11 35.9
L 11 38.1

NOVEMBER 30
Resolute
e(P) 13 07 49

NOVEMBER 30
Resolute
eP 14 48 (31)

NOVEMBER 30
U.S.C.G.S.
59 1/2N, 152W
Kenai Peninsula, Alaska
H = 15 18 37
Alberni
eP 15 22 56
Banff
eP (14) (58) (45) c
Halifax
iP 15 27 48 d
i 15 27 54 c
Horseshoe Bay
eP 15 23 03 c
Ottawa
iP 15 26 58
Resolute
iP 15.24 05 d
PP 15 24 40
eS 15 28 34
iS 15 28 46
eL 15 30 22
i 15 32.0
Seven Falls
eP 15 27 08 c
Shawinigan Falls
iP 15 27 03 c
i 15 27 08 c
ePP 15 28 57
Victoria
eP 15 23 55

DECEMBER 1
Horseshoe Bay
iP 05 48 55.1 c

DECEMBER 1
Resolute
e 09 26 22

DECEMBER 1
U.S.C.G.S.
38N, 21 1/2E
Near west coast of Greece
H = 12 38 46
Halifax
iP 12 49 00 d
i 12 49 05 c
Ottawa
iP 12 49 50 c
Resolute
eP 12 48 55 c
i 12 49 02
eS 12 57 14
eL 13 05.7

DECEMBER 1
U.S.C.G.S.
38N, 21E
Greece aftershock
H = 12 51 58
Resolute
eP 13 02 07 c

DECEMBER 1
U.S.C.G.S.
Caribbean Sea about 250 miles west of Jamaica
H = 14 19 30
Resolute
eP 14 29 22
G 14 44.4

DECEMBER 1
U.S.C.G.S.
63S, 154E
Balleny Islands region
H = 14 59 40
Ottawa
eP' 15 19 27

DOMINION OBSERVATORIES

Resolute
eP' 15 19 36
eP' 15 20 08
PP 15 23.5
SKKKS 15 30.6
SKSP 15 34.0
PPS 15 36 (40)
SS 15 42.9
SS 15 43.9
Seven Falls
eP_2' 15 19 38

DECEMBER 1
U.S.C.G.S.
5N, 125E
Near south coast of Mindanao, Philippine Islands
H = 18 11 49
h = 400 km
Resolute
eP 18 24 40.5 d

DECEMBER 1
Resolute
eP 23 16 (50)

DECEMBER 2
Horseshoe Bay
iP 00 23 24 d
i 00 24 13

DECEMBER 2
Resolute
eP 04 27 09 c
e 04 28 40

DECEMBER 2
U.S.C.G.S.
9S, 80W
Off coast of Peru
H = 07 02 52
Resolute
eP 07 15 23
e 07 15 33

DECEMBER 2
U.S.C.G.S.
5S, 104E
Near coast of Sumatra
H = 07 30 05
h = 150 km
Resolute
eP' 07 48 22
SKS 07 55.0
PS 07 58.4
SS 08 04.4
SSS 08 08.6

DECEMBER 2
Resolute
eP 07 56 12 c
e 07 56 39
e 08 13 28

DECEMBER 2
U.S.C.G.S.
1S, 123E
Celebes
H = 09 34 00
Mag 6 1/2 - 6 3/4
Halifax
PP 09 53 28
PPP 09 56 08
Ottawa
eP' 09 53 21
PKS 09 56 47
Resolute
eP 09 48 02
e 09 48 32
e 09 51 20
PP 09 52 17
e 09 54.2
SKS 09 58 32
eS 09 59 40
e 10 00.0
PS 10 01 20
PPS 10 02.2
e 10 03.6
e 10 05 24
SS 10 07 20
SSS 10 11 16
e 10 13.6
L 10 17.0

Seven Falls
eP' 09 53 21
e 09 53 33
ePKS 09 56 47
Shawinigan Falls
iP 09 53 21 d
i 09 54 01
iPKS 09 56 46
i 09 57 03
Victoria
eP' 10 52 26

DECEMBER 2
U.S.C.G.S.
52N, 174E
Near Islands, Aleutian Islands
H = 22 52 45
Resolute
eP 23 00 29
P_cP 23 02 30

DECEMBER 3
Resolute
eP 02 14 (32)
e 02 15 50

DECEMBER 3
Resolute
e 02 54 40
e 02 58 40

DECEMBER 3
Resolute
e(P) 12 47 (07)
e 12 48 11

DECEMBER 3
U.S.C.G.S.
16 1/2S, 177 1/2W
Fiji Islands region
H = 13 16 26
Resolute
SS 13 49 40
L 13 59.1

DECEMBER 3
Resolute
eP 19 55 13

DECEMBER 4
Halifax
iP 09 11 39 d
Resolute
eP 09 11 29

DECEMBER 4
U.S.C.G.S.
21S, 178 1/2W
Fiji Islands region
H = 09 24 04
h = 650 km
Resolute
eP' 09 41 27

DECEMBER 4
Resolute
eP 10 00 28.5

DECEMBER 4
Resolute
eP 12 05 38

DECEMBER 4
Resolute
eP 21 12 (18)

DECEMBER 5
U.S.C.G.S.
40 1/2N, 126W
Off coast of Northern California
H = 08 13 36
Mag 5
Halifax
P 08 22 01
Ottawa
eP 08 20 47

Resolute
eP 08 20 55.5
iP 08 20 56.5 c
PP 08 22 24
eS 08 26 40
L 08 28.8
Seven Falls
eP 08 21 13
Shawinigan Falls
iP 08 21 04 d

DECEMBER 5
47.3N, 123.5W
Olympic Peninsula, Washington
H = 08 15 21.7
Mag 2.8
Banff
iP 08 16 48 d
D = 720 km
Horseshoe Bay
eP 08 15 57.7
iP 08 15 58.9
S 08 17 32.7
D = 236 km
Victoria
iP 08 15 44.7
iS 08 16 10.1

DECEMBER 6
Resolute
eP 17 41 51.5 c
iP 17 41 52
e 17 43 30

DECEMBER 7
Resolute
eP 01 41 51.5

DECEMBER 7
U.S.C.G.S.
Northern Gulf of California
H = 04 10 45
Ottawa
eP 04 17 28
Resolute
eS 04 26.0
eL 04 29 40

DECEMBER 7
U.S.C.G.S.
32 1/2N, 139 1/2E
South of Honshu, Japan
H = 05 15 24
Resolute
eP 05 26 22.5 c
e 05 26 46
e 05 27 08

DECEMBER 8
U.S.C.G.S.
36 1/2N, 141 1/2E
Near east coast of Honshu, Japan
H = 02 59 56
Resolute
eP 03 10 21 c

DECEMBER 8
U.S.C.G.S.
1S, 124E
Celebes region
H = 04 30 06
Resolute
eP 04 44 (09)
PP 04 48 10

DOMINION OBSERVATORIES

DECEMBER 8
47.6N, 122.8W
West of Bremerton, Washington
H = 04 32 05.3
Mag 2.6
Horseshoe Bay
eP 04 32 37.2
e 04 33 01.2
D = 207 km
Victoria
eP 04 32 24.0
e 04 32 39.3
D = 117 km

DECEMBER 8
U.S.C.G.S.
67N, 18W
Off north coast of Iceland,
H = 08 08 21
Resolute
eP 08 13 39
PP 08 14 21
eS 08 18.2
eL 08 21.6
e 08 23.0

DECEMBER 8
Resolute
eP 08 55 07 d

DECEMBER 8
Resolute
eP 09 35 (13)

DECEMBER 8
Resolute
eP 09 45 35 c

DECEMBER 8
Resolute
e 11 32 (02)

DECEMBER 8
U.S.C.G.S.
37 1/2N, 72 1/2E
Afghanistan - Tadzhik border
H = 12 20 55
Resolute
eP 12 31 55

DECEMBER 8
U.S.C.G.S.
Southern Iran
H = 12 50 45
Resolute
eP 13 02 19 c
e 13 03.4
SS 13 16.2

DECEMBER 8
U.S.C.G.S.
42N, 44 1/2E
Georgia S.S.R.
H = 13 33 59
Resolute
eP 13 44 13
(P_cP) 13 45 04
eS 13 52 34
e 13 55.3
SS 13 56.5
L 13 59 22
Shawinigan Falls
iP 13 45 51 c

DECEMBER 8
Ottawa
eP 17 20 07
Resolute
eP 17 16 45
e 17 20 42
e 17 24 32
e 17 30 16

DECEMBER 8
Resolute
eP 18 20 02
e 18 21 24

DECEMBER 9
U.S.C.G.S.
17S, 177 1/2W
Fiji Islands
H = 14 04 28
h = 450 km
Banff
iP 14 16 32 d
Horseshoe Bay
iP 14 18 04
Victoria
iP 14 18 23

DECEMBER 9
Resolute
e(P) 17 04 (21)

DECEMBER 9
Resolute
e(P) 18 35 42

DECEMBER 9
Horseshoe Bay
eP 19 39 55.8
eS 19 40 45.4
Victoria
eP 20 40 34.0
eS 20 41 22
Local shock

DECEMBER 9
48.6N, 123.1W
San Juan Island, Washington
H = 20 54 41.8
Alberni
iP 20 55 04.8
S 20 55 22.2
D = 144 km
Horseshoe Bay
P 20 54 56.1
S 20 55 07.0
D = 89 km

Victoria
iP 20 54 51.1 c,S,W
iS 20 54 58.3
D = 17 km

DECEMBER 9
Resolute
eP 22 46 24

DECEMBER 9
Resolute
eP 23 27 43

DECEMBER 10
Resolute
eP 01 20 (03)

DECEMBER 10
Resolute
e(P) 07 12 19

DECEMBER 10
Resolute
e(P) 08 14 10 c

DECEMBER 10
Resolute
eP 14 19.0
e 14 19 23

DECEMBER 11
U.S.C.G.S.
5S, 130E
Banda Sea
H = 00 31 40
Resolute
eP 00 45 55
PP 00 50 09
PKKP 00 50 16
SS 01 15.1
L 01 22.6

DECEMBER 11
Resolute
e(P) 07 45 29

DECEMBER 11
Resolute
e(P) 10 04 (39)

DECEMBER 11
Resolute
e 13 56 (55)
e 13 57 (36)

DECEMBER 11
Resolute
e(P) 15 11 41
e 15 11 57
e 15 12 08

DECEMBER 12
Resolute
eP 04 58 05

DECEMBER 12
Resolute
eP 05 54 (17)
e 05 57 53

DECEMBER 12
48.7N, 123.1W
Near San Juan Island
H = 06 21 53.3
Mag 1.4
Alberni
iP 06 22 15.7
S 06 22 32.6
D = 143 km
Horseshoe Bay
iP 06 22 07.0
iS 06 22 17.2
D = 80 km
Victoria
iP 06 21 58.1 c,N,W
S 06 22 01.8
D = 25 km

DECEMBER 12
U.S.C.G.S.
48 1/2N, 123 1/2W
Puget Sound, Washington
H = 06 24 20
Resolute
eP 06 30 18

DECEMBER 12
48.7N, 123.1W
Near San Juan Island
H = 06 25 32.6
Mag 3.1
Alberni
P 06 25 55.3
S 06 26 12.0
D = 143 km
Victoria
iP 06 25 37.4
S 06 25 41.1
D = 25 km

DECEMBER 12
Resolute
e 06 38 (08)

DECEMBER 12
48.7N, 123.1W
San Juan Island region
H = 06 38 56.6
Mag 0.5
Victoria
P 06 39 01.4 d,S,E
e 06 39 05.0
D = 25 km

DECEMBER 12
48.7N, 123.1W
San Juan Island region
H = 06 51 30.1
Mag 3.3
Alberni
P 06 51 51.9
S 06 52 08.6
D = 138 km

Victoria
iP 06 51 34.9
D = 28 km

DECEMBER 12
48.7N, 123.1W
San Juan aftershock
H = 07 38 23.3
Mag 0.7
Victoria
iP 07 38 28.1
S 07 38 31.8

DECEMBER 12
48.6N, 123.3W
San Juan Island region
H = 10 29 56.9
Mag 2.4
Alberni
P 10 30 18.8
e 10 30 34.7
D = 137 km
Horseshoe Bay
P 10 30 11.2 d
e 10 30 22.3
D = 89 km
Victoria
iP 10 30 04.4

DECEMBER 12
Resolute
eP 17 55 11

DECEMBER 12
Resolute
eP 18 44 (43)

DECEMBER 12
Resolute
e 19 52 (08)

DECEMBER 13
U.S.C.G.S.
42N, 142E
Hokkaido, Japan
H = 03 20 38
Resolute
eP 03 30 27
e 03 30 49

DECEMBER 13
U.S.C.G.S.
9 1/2S, 106 1/2E
Off south coast of Java
H = 05 39 31
Resolute
eP' 05 58 (07)

DECEMBER 13
Montana earthquake
Banff
eP 07 52 14
Victoria
eP 07 52 43.8 d
S 07 55 21.0

DECEMBER 13
Resolute
eP 08 (03) (10)

DECEMBER 13
Resolute
eP 09 38 10
e 09 40 51

DECEMBER 13
U.S.C.G.S.
18S, 173 1/2W
Tonga Islands
H = 17 36 07
Resolute
eS 18 02.1
PS 18 03 50
SS 18 09.2
SSS 18 13 14

DECEMBER 13
48.6N, 123.1W
San Juan Area
H = 21 32 42.7
Mag 2.1
Alberni
eP 21 33 07.0
e 21 33 22.5
D = 148 km
Horseshoe Bay
P 21 32 55.7
e 21 33 05.3
D = 84 km
Victoria
iP 21 32 47.3 d,N
e 21 32 51.1
D = 24 km

DECEMBER 13
Resolute
e(P) 23 31 48 d

DECEMBER 14
Resolute
eP 00 28 41

DECEMBER 14
Local shock
H = 15 42 57.2
Mag 2.4
Alberni
iP 15 43 06.2
iS 15 43 13.0
D = 56 km

DECEMBER 14
U.S.C.G.S.
5 1/2N, 125 1/2E
Off south coast of Mindanao, Philippine Islands
H = 17 58 33
h = 200 km
Halifax
PKS 18 20 35

Ottawa
eP' 18 17 20 c
PP 18 18 16
PPP 18 20 27
Resolute
iP 18 11 47 d
i 18 11 57
pP 18 12 23
SKS 18 22 09
eS 18 22 52
sS 18 23.9
SP 18 24.2
SS 18 29.5
sSS 18 30 22
SSS 18 33 10
e 18 35 10
G 18 38.0
Seven Falls
eP' 18 17 19
Shawinigan Falls
iP' 18 17 19 d
pP' 18 17 58
sPP 18 20 31

DECEMBER 14
Victoria
iP 19 35 10.5
Local shock

DECEMBER 14
Victoria
iP 19 36 39.2
Local shock

DECEMBER 14
U.S.C.G.S.
1N, 125E
Celebes
h = 21 49 10
Ottawa
eP' 22 08 22
Resolute
eP 22 03 03
Shawinigan Falls
eP' 22 08 26 (d)

DECEMBER 14
U.S.C.G.S.
52 1/2N, 168W
Fox Islands, Aleutian Islands
H = 22 00.50
Mag 6
Halifax
PPS 22 20 04
Ottawa
eP 22 10 38
Resolute
eP 22 07 53
PPP 22 09 28
e 22 11.7
e(S) 22 13 08
iS 22 13 40
eL 22 15.2
Saskatoon
e 22 13 47.5
Seven Falls
eP 22 10 53
PP 22 13 19
S 22 18 46
(SS) 22 24.1
eL 22 28.6
Shawinigan Falls
iP 22 10 46d

DECEMBER 14
U.S.C.G.S.
59 1/2S, 31W
Sandwich Islands
H = 23 21 56
Mag 7
Alberni
eP' 23 41 17.8
e 23 44 48.1
Banff
eP' 23 41 10
e 23 44 35
Horseshoe Bay
iP' 23 41 16.9
(S) 23 44 45
Ottawa
eP' 23 40 32

Resolute
eP' 23 41 21
iP' 23 41 32
e 23 42 20
iPP 23 44 44
iPKS 23 45 04
i 23 48.0
i 23 50.0
SKKS 23 50 44
SKKKS 23 51 20
e 23 53 20
SKSP 23 54.6
i 23 55 (40)
e(S) 23 56.6
PPS 23 57.1
PPPS 23 58 20
SS 24 03 08
i 24 04 16
Seven Falls
eP' 23 40 36
PS 23 50 54
SS 23 57 24
G 24 09.1
Shawinigan Falls
iP' 23 40 36 d
Victoria
eP' 23 41 17
e 23 44 41

DECEMBER 14
48.7N, 123.1W
San Juan Islands
H = 23 39 58.3
Mag 1.1
Horseshoe Bay
P 23 40 22.4
Victoria
iP 23 40 03.1
S 23 40 06.9
D = 25 km

DECEMBER 14
Ottawa
eP 23 51 25
Seven Falls
eP 23 51 26
Shawinigan Falls
eP 23 51 23

DOMINION OBSERVATORIES

DECEMBER 15
Resolute
eP 00 14 23

DECEMBER 15
U.S.C.G.S.
17 1/2N, 145E
Mariana Islands
H = 01 35 23
Resolute
eP 01 47 41

DECEMBER 15
Resolute
e(P) 02 46 33

DECEMBER 15
U.S.C.G.S.
17N, 145E
Mariana Islands
H = 05 04 14
Resolute
eP 05 16 32

DECEMBER 15
Resolute
e 05 42 (35)
e(P) 05 46 14

DECEMBER 15
Canadian Arctic
H = 07 10 27.5
Mag 2.1
h = 35 km
Resolute
P_n 07 10 58.5
P_1 07 11 03.5
S_n 07 11 21.0
S_1 07 11 31.0
D = 222 km

DECEMBER 15
U.S.C.G.S.
17 1/2N, 145E
Mariana Islands
H = 08 56 20
Resolute
eP 09 08 36

DECEMBER 15
U.S.C.G.S.
5 1/2N, 125 1/2E
Near south coast of
Mindanao Philippine
Islands
H = 09 30 22
Resolute
eP 09 43 51 c

DECEMBER 15
Resolute
eP 09 (53) (43)

DECEMBER 15
U.S.C.G.S.
37N, 70E
Hindu Kush
H = 10 47 42
Resolute
eP 10 58 (46)

DECEMBER 15
U.S.C.G.S.
17N, 145E
Mariana Islands
H = 11 25 07
Resolute
eP 11 37 (23)

DECEMBER 15
U.S.C.G.S.
59S, 24W
Sandwich Islands
H = 12 15 45
Resolute
eP' 12 35 14
PKS 12 38 56
ePKS 12 39 19

DECEMBER 15
Resolute
e(P) 17 13 (14)
(P_cP) 17 15 20

DECEMBER 15
Resolute
eP 19 07 (11)

DECEMBER 15
Resolute
e(P) 20 01 47.5 d

DECEMBER 16
U.S.C.G.S.
38 1/2N, 122W
California
H = 02 28 44
Mag 4 1/2
Resolute
eP 02 36 04

DECEMBER 16
Resolute
eP 05 24 36

DECEMBER 16
Resolute
eP 05 53 51

DECEMBER 16
U.S.C.G.S.
47 1/2N, 152E
Kurile Islands
H = 11 21 47
Resolute
eP 11 30 46

DECEMBER 16
Resolute
eP 13 23 (54)

DECEMBER 17
U.S.C.G.S.
21 1/2N, 121E
Off south coast of
Formosa
H = 02 31 02
Resolute
eP 02 43 19.5 c
iP 02 43 30
e 02 59.5
eL 03 08.3
Victoria
eP 02 45 04

DECEMBER 17
Resolute
eP 02 59 15 c

DECEMBER 17
U.S.C.G.S.
24S, 177W
Tonga Islands
region
H = 02 55 58
h = 100 km
Resolute
eP' 03 14 (24)

DECEMBER 17
U.S.C.G.S.
40 1/2N, 142 1/2E
Near east coast of
Honshu, Japan
H = 05 04 46
Resolute
eP 05 14 48.5 c
iP 05 14 57
P_cP 05 15 36

DECEMBER 17
Resolute
eP 05 24 25 c

DECEMBER 17
U.S.C.G.S.
5 1/2S, 102 1/2E
Off south coast of
Sumatra
H = 05 53 46
Resolute
eP' 06 12 30
SKS 06 19.0
PS 06 22 32
PPS 06 23 (46)
(SS) 06 28 44
SSS 06 32.9

DECEMBER 17
Canadian Arctic
H = 12 46 59.8
Mag 1.3
Resolute
P_1 12 47 09
S_1 12 47 16
D = 57.5 km

DECEMBER 17
U.S.C.G.S.
36 1/2S, 101 1/2W
South Pacific Ocean
H = 16 48 55
Resolute
SS 17 23.7
SSS 17 27 44

DECEMBER 17
Resolute
eP 18 01 (02)
Shawinigan Falls
eP 18 01 41

DECEMBER 17
Canadian Arctic
H = 19 13 25
Mag 2.1
h = 34 km
Resolute
eP_n 19 13 57.0
iP_1 19 14 02.0
iS 19 14 19.5
iS_1^n 19 14 30.0
D = 228 km

DECEMBER 17
Canadian Arctic
H = 21 36 18.5
Mag 2.1
h = 27 km
Resolute
P_n 21 36 53
P_1 21 36 58
S_n 21 37 18
S_1 21 37 28
D = 246 km

DECEMBER 18
Resolute
eP 07 12 55 d

DOMINION OBSERVATORIES

DECEMBER 18
Resolute
e(P) 09 04 36 c

DECEMBER 18
Resolute
eP 09 28.2

DECEMBER 18
U.S.C.G.S.
18S, 178 1/2E
Fiji Islands
H = 09 57 07
h = 600 km
Resolute
eP' 10 14 39

DECEMBER 18
Canadian Arctic
H = 15 37 25.4
Mag 2.6
Resolute
iP_1 15 37 35
iS_1 15 37 42.3
D = 60 km

DECEMBER 18
U.S.C.G.S.
53N, 168 1/2W
Fox Islands,
Aleutian Islands
H = 16 24 50
Mag 6 1/2
Alberni
eP 16 30 39
Halifax
iP 16 35 23 c
Ottawa
eP 16 34 38 c
S 16 42 35
Resolute
eP 16 31 52 c
iP 16 32 06
PP 16 33 18
PPP 16 33 34
P_cP 16 34 19
eS 16 37 28
e 16 38 04
eL 16 39.4
S_cS 16 42.0
Saskatoon
e 16 37 44
Seven Falls
eP 16 34 46 c
eS 16 42 52
eL 16 54.1
Shawinigan Falls
iP 16 34 43 c
e(P_cP) 16 35 17
Victoria
eP 16 30 50

DECEMBER 18
Resolute
eP 21 40 44

DECEMBER 19
Resolute
eP 03 35 (09)
e 04 07.3

DECEMBER 19
Resolute
eP 12 39 29

DECEMBER 19
Resolute
eP 13 56 01 (c)

DECEMBER 19
Ottawa
eP 15 13 43
Resolute
eP 15 15 43
eS 15 22 40
SS 15 26 16
eL 15 30.0

DECEMBER 19
Resolute
eP 23 06 16

DECEMBER 20
U.S.C.G.S.
South of Kermadec
Islands
H = 08 05 34
Resolute
eP' 08 24 26

DECEMBER 20
Resolute
e(P) 09 15 31
e 09 19 06

DECEMBER 20
U.S.C.G.S.
10 1/2N, 126 1/2E
North of Mindanao,
Philippine Islands
H = 12 53 37
Resolute
eP 13 06 50 c

DECEMBER 20
U.S.C.G.S.
17 1/2S, 174 1/2W
Tonga Islands region
H = 14 16 52
Resolute
eP 14 31 03

DECEMBER 20
Resolute
e(P) 16 47 56
e 17 05 16

DECEMBER 21
Canadian Arctic
H = 00 06 59.2
Mag 2.2
h = 17 km
Resolute
P_n 00 07 24.7
P_1 00 07 25.5
S_n 00 07 44.3
S_1 00 07 45.3
D = 164 km

DECEMBER 21
Canadian Arctic
H = 01 26 52.4
Mag 1.9
Resolute
P_1 01 27 20
S_1 01 27 41
D = 172 km

DECEMBER 21
Resolute
e(P) 01 47 18

DECEMBER 21
Horseshoe Bay
e 02 25 37
Victoria
eP 02 25 44

DECEMBER 21
Resolute
eP 05 05 (00)

DECEMBER 21
Resolute
e(P) 07 12 14
e 07 22.8

DECEMBER 21
Resolute
iP 09 30 08.5
i 09 30 13
i 09 30 15

DECEMBER 21
U.S.C.G.S.
27 1/2S, 176W
Kermadec Islands
region
H = 10 20 33
Mag 6
Resolute
eP' 10 39 16
eS 10 48 09
PS 10 50.0
PPS 10 51.0
SS 10 56.3
(SSS) 11 00.0
eL 11 06.4
Victoria
eP 10 33 32

DECEMBER 21
U.S.C.G.S.
27 1/2S, 176W
Kermadec Islands
region
H = 11 14 17
Mag 6 1/2
Victoria
eP 11 27 14

DECEMBER 21
U.S.C.G.S.
14N, 52E
Gulf of Aden
H = 11 19 14
Mag 6 1/2 - 6 3/4
Resolute
eP 11 32 13.5 d
iPP 11 35 53
iS 11 42 46
i 11 43 03
PS 11 44.0
e 11 45 16
SS 11 49 04
L 11 55.5

DECEMBER 21
Resolute
e(P) 12 05 58 c

DECEMBER 21
Resolute
e(P) 12 49 15

DECEMBER 21
Resolute
e(P) 17 36 02

DECEMBER 21
Resolute
eP 19 46 53
e 19 51 30

DECEMBER 21
Resolute
e(P) 22 18 49 d
e 22 19 03

DECEMBER 22
U.S.C.G.S.
40 1/2N, 124W
California
H = 02 39 02
Mag 4 1/2
Ottawa
eP 02 45 56
Resolute
eP 02 46 07 c
e(S) 02 52.1
e 02 55.0
eL 02 56.0
Seven Falls
eP 02 46 22

DECEMBER 22
Resolute
eP 05 14 59 d

DOMINION OBSERVATORIES

DECEMBER 22
Resolute
e(P) 13 02 33

DECEMBER 22
U.S.C.G.S.
37 1/2N, 141 1/2E
Off east coast of Honshu, Japan
H = 17 20 19
Resolute
eP 17 30 38 c
eS 17 39.1
S_cS 17 40.4

DECEMBER 23
Local shock
H = 00 47 53.2
Mag 2.0
Horseshoe Bay
P 00 48 05.7 c
S 00 48 15.2
D = 78 km

DECEMBER 23
Resolute
eP 00 57 44
e 01 00 01

DECEMBER 23
Canadian Arctic
H = 01 26 44
Mag 4.6
Resolute
P_n 01 28 23
S_n 01 29 35
L_g 01 30 11
D = 750 km

DECEMBER 23
U.S.C.G.S.
56 1/2N, 158 W
Alaska Peninsula
H = 03 49 00
Alberni
eP 03 54 07
Ottawa
iP 03 57 55 d
Resolute
eP 03 55 08 c
e 04 01 48
eL 04 02.2
Victoria
eP 03 54 02

DECEMBER 23
Resolute
eP 06 38 (24)

DECEMBER 23
U.S.C.G.S.
38N, 14 1/2E
Near north coast of Italy
H = 09 28 56
Ottawa
iP 09 39 33 c
Resolute
eP 09 38 54.5

DECEMBER 23
Resolute
e(P) 12 46 (58)

DECEMBER 23
U.S.C.G.S.
27 1/2S, 176W
Kermadec Islands region
H = 13 59 02
Resolute
eP' 14 17 (44)

DECEMBER 23
Resolute
e(P) 21 49 35

DECEMBER 24
Resolute
eP 02 19 38

DECEMBER 24
Resolute
e(P) 05 41 02

DECEMBER 24
Ottawa
eP 07 37 12
Resolute
e(P) 07 36 (03)

DECEMBER 24
U.S.C.G.S.
18 1/2N, 95W
Vera Cruz, Mexico
H = 08 09 32
h = 200 km
Resolute
eP 08 18 55

DECEMBER 24
Resolute
eP 09 43 32

DECEMBER 24
U.S.C.G.S.
13 1/2S, 74 1/2W
Southern Peru
H = 12 50 35
Ottawa
eP 13 00 35
Resolute
eP 13 03 31
eS 13 14 16
PS 13 15.0
SS 13 20.5
SSS 13 24.5
eL 13 32.2

Seven Falls
eP 13 00 49
Shawinigan Falls
eP 13 00 43

DECEMBER 24
U.S.C.G.S.
9N, 126 1/2E
Near north coast of Mindanao, Philippine Islands
H = 13 08 34
Resolute
eP 13 21 48
eS 13 32 50

DECEMBER 24
Resolute
e(P) 13 53 44

DECEMBER 25
Resolute
e(P) 00 31 49

DECEMBER 25
Resolute
eP 00 58 35 c

DECEMBER 25
Resolute
eP 01 08 09
e 01 14.7

DECEMBER 25
Resolute
e(P) 03 30 04

DECEMBER 25
U.S.C.G.S.
27 1/2S, 176W
Kermadec Islands region
H = 03 48 58
Resolute
eP' 04 07 38
eS 04 16 32
PS 04 18.2
SS 04 24.2
e 04 27.5

DECEMBER 25
Resolute
e(P) 05 56 (28)

DECEMBER 25
Resolute
e(P) 06 29 30

DECEMBER 25
U.S.C.G.S.
25 1/2S, 67W
Chile - Argentina border region
H = 10 18 35
Mag 6 1/2 - 6 3/4
Alberni
eP 10 31 39
Halifax
iP 10 29 53 d
iS 10 38 56
PPS 10 39 44
Horseshoe Bay
iP 10 31 40
e 10 32 10
Ottawa
iP 10 29 58 d
pP 10 30 26

Resolute
eP 10 32 31 d
PP 10 36 59
SKS 10 42.9
eS 10 43.9
e 10 44 51
PS 10 45 20
PKKP 10 48 40
SS 10 50.9
PSPS 10 51.7
eL 11 00.0
Seven Falls
eP 10 30 08 d
e 10 30 35 c
e 10 31 01
S 10 39 16
PS 10 40 08
Shawinigan Falls
iP 10 30 03 d
i 10 30 31 d
i 10 30 56 c
ePP 10 32 42
e(PPP) 10 35.2
Victoria
eP 10 31 34

DECEMBER 25
Resolute
eP 18 03 (21)

DECEMBER 25
Resolute
eP 21 28 23

DECEMBER 26
Canadian Arctic
H = 09 56 01.9
Mag 1.8
Resolute
P_1 09 56 09
S_1 09 56 14.4
D = 44.3 km

DOMINION OBSERVATORIES

DECEMBER 26
51.1N, 129.6W
Off northwest tip
of Vancouver Island
H = 10 59 55.8
Mag 3.8
Horseshoe Bay
iP 11 00 56.1 d
S 11 01 14.7
D = 495 km
Victoria
iP 11 01 00.7 d,N,W
iS 11 02 05.6
D = 532 km

DECEMBER 26
Resolute
e(P) 12 31 03.5
e 12 31 14
e 12 31 32
Victoria
eP 12 31 06

DECEMBER 26
Resolute
e(P) 13 11 24

DECEMBER 26
Resolute
eP 15 11 36

DECEMBER 26
U.S.C.G.S.
59 1/2N, 151 1/2W
Kenai Peninsula,
Alaska
H = 18 19 10
Alberni
eP 18 23 28
Halifax
iP 18 28 18 c
iS 18 35 40
Horseshoe Bay
P 18 23 30
Ottawa
eP 18 27 30 c
Resolute
eP 18 24 35.5 c
PP 18 25 10
i 18 25 56
(P_cP) 18 27 20
eS 18 29 02
iS 18 29 07
Saskatoon
e 18 22 26
Seven Falls
eP 18 27 39
e 18 35.4
eL 18 43.4
Shawinigan Falls
iP 18 27 33 c
eL 18 42.7
Victoria
eP 18 23 38 d

DECEMBER 26
Resolute
e(P) 20 22 53.5

DECEMBER 26
Resolute
eP 21 59 21

DECEMBER 26
U.S.C.G.S.
53N, 160E
Kamchatka foreshock
H = 22 02 35
Halifax
iP 22 14 23 d
Ottawa
eP 22 13 54 d
Resolute
iP 22 10 41 d
i 22 10 50
eS 22 17 15
S_cS 22 20.7

DECEMBER 26
Halifax
iP 22 42 41 d
Resolute
eP 22 42 37
e 22 42 56
e 22 44 25

DECEMBER 27
Resolute
e(P) 00 02 53

DECEMBER 27
Resolute
e(P) 00 18 37

DECEMBER 27
Resolute
eP 01 32 09.5 d

DECEMBER 27
U.S.C.G.S.
52 1/2N, 160 1/2E
Kamchatka foreshock
H = 04 47 45
Halifax
P 04 59 37
Ottawa
eP 04 59 08
Resolute
eP 04 55 55 c
eS 05 02 16
eL 05 05 28
Seven Falls
eP 04 59 11

DECEMBER 27
U.S.C.G.S.
52 1/2N, 160E
Kamchatka foreshock
H = 05 01 55
Resolute
eP 05 10 04

SEISMOLOGICAL BULLETIN - 1959

DECEMBER 27
U.S.C.G.S.
52 1/2N, 160E
Near southeast coast
of Kamchatka
H = 05 06 14
Resolute
eP 05 14 22 c
P_cP 05 15 47

DECEMBER 27
U.S.C.G.S.
35N, 26E
Near east coast of
Crete
H = 05 22 39
Halifax
iP 05 33 32 d
Ottawa
eP 05 34 14
Resolute
eP 05 33 13
Seven Falls
eP 05 33 51
e(PP) 05 36 01

DECEMBER 27
Resolute
e(P) 05 59 21

DECEMBER 27
U.S.C.G.S.
Near southeast coast
of Kamchatka
H = 06 18 08
Resolute
eP 06 26 17

DECEMBER 27
Resolute
eP 06 52 43 c

DECEMBER 27
U.S.C.G.S.
52 1/2N, 159 1/2E
Kamchatka foreshock
H = 06 51 35
Halifax
P 07 03 24
Ottawa
eP 07 02 55
Resolute
eP 06 59 43.5 c
P_cP 07 01 17
PP 07 01 27
eS 07 06.3
eL 07 09.7

DECEMBER 27
U.S.C.G.S.
52 1/2N, 159 1/2E
Near southeast coast
of Kamchatka
H = 07 45 25
Resolute
eP 07 53 33 c

DECEMBER 27
Resolute
eP 08 03 03
e(S) 08 09.5

DECEMBER 27
U.S.C.G.S.
52 1/2N, 160E
Near southeast coast
of Kamchatka
H = 08 05 30
Resolute
eP 08 13 40
e 08 14 19

DECEMBER 27
Resolute
e(P) 11 14 21

DECEMBER 27
U.S.C.G.S.
52 1/2N, 160E
Near southeast coast
of Kamchatka
H = 11 48 55
Resolute
eP 11 57 03 c
e 11 57 17
eS 12 03 46
eL 12 07.0

DECEMBER 27
U.S.C.G.S.
52 1/2N, 160E
Kamchatka foreshock
H = 11 54 48
Ottawa
eP 12 06 10
Resolute
eP 12 02 58 c
e 12 04 55
eS 12 09.4
eL 12 12.8

DECEMBER 27
U.S.C.G.S.
28S, 63W
Santiago del Estero
Province, Argentina
H = 12 39 09
h = 650 km
Halifax
iP 12 49 39
iS 12 58 16
Ottawa
eP 12 49 48
S 12 58 36
Resolute
eP 12 54 14 d
PP 12 56 34
SS 13 10.6
SSS 13 15.0

DOMINION OBSERVATORIES

Seven Falls
iP 12 49 55 d
iS 12 58 49
Shawinigan Falls
iP 12 49 52.5 c
pP 12 51 54

DECEMBER 27
U.S.C.G.S.
56N, 162 1/2E
Kamchatka
H = 15 52 55
Alberni
eP 16 01 01
Banff
eP 15 (47) (57)
Halifax
iP 16 04 23
iS 16 13 44
Horseshoe Bay
eP 16 01 00
Ottawa
eP 16 03 53 c
S 16 12 48
Resolute
eP 16 00 32 d
i 16 00 (52)
e 16 01.6
PP 16 02.0
i 16 02.2
eS 16 06 20
iS 16 06 40
i 16 08.2
L 16 09.5
Saskatoon
P 16 01 00
Seven Falls
eP 16 03 56
iS 16 12 58
e(S_cS) 16 13 53
eSSS 16 20 38
eG 16 25.4
Shawinigan Falls
iP 16 03 52 c
Victoria
eP 16 01 05

DECEMBER 27
U.S.C.G.S.
56N, 162E
Near east coast
of Kamchatka
H = 19 28 39
Resolute
eP 19 35 39
e 19 36 15

DECEMBER 27
Resolute
eP 21 04 17 c

DECEMBER 27
Local shock
H = 21 14 22.8
Mag 1.9
Horseshoe Bay
iP 21 14 34.6 d
iS 21 14 45.2
D = 74 km
Victoria
iP 21 14 28.7
iS 21 14 31.6
D = 37 km

DECEMBER 27
Resolute
e(P) 22 57 03

DECEMBER 28
Resolute
eP 00 03 08

DECEMBER 28
Resolute
eP 01 49 04
e 01 51 34

DECEMBER 28
Resolute
eP 02 23 02

DECEMBER 28
U.S.C.G.S.
52 1/2N, 160E
Near east coast of
Kamchatka
H = 07 20 32
Mag 6 1/2
Alberni
eP 07 29 06
Halifax
iP 07 32 26 c
iS 07 42 05
Horseshoe Bay
P 07 29 03
Ottawa
eP 07 31 54
Resolute
eP 07 28 41 c
i 07 28 54
iPP 07 30 38
eS 07 35 15
eL 07 38.0
S_cS 07 38.6
Seven Falls
eS 07 41 12
eL 07 52.7
Shawinigan Falls
eP 07 31 54
Victoria
eP 07 29 02

DECEMBER 28
Resolute
eP 07 49 30

DECEMBER 28
U.S.C.G.S.
22 1/2S, 67 1/2W
Chile - Bolivia border
H = 10 03 08
h = 100 km
Halifax
iP 10 13 57 d
Ottawa
eP 10 14 02
pP 10 14 28

Resolute
eP 10 16 (40)
Shawinigan Falls
eP 10 14 06 d
iP 10 14 07 c
ipP 10 14 33 d

DECEMBER 28
Resolute
e(P) 10 18 (20)

DECEMBER 28
Resolute
e(P) 10 48 55

DECEMBER 28
Resolute
e(P) 12 08 39

DECEMBER 28
U.S.C.G.S.
52 1/2N, 160E
Near southeast coast
of Kamchatka
H = 13 04 30
Mag 6
Resolute
eP 13 12 40 c
i 13 12 53
P_cP 13 14 06
PP 13 14 26
eS 13 19 14
eL 13 22.0
(S_cS) 13 22.5
Shawinigan Falls
eP 13 16 05

DECEMBER 28
Resolute
e(P) 13 18 12

DECEMBER 28
Resolute
e(P) 19 50 (37)
e 19 57.1
e 20 00.6

DECEMBER 28
Resolute
e(P) 19 54 30

DECEMBER 28
Resolute
eP 21 37 37
e 21 37 47

DECEMBER 28
Resolute
e(P) 23 39 31

DECEMBER 29
U.S.C.G.S.
37N, 121 1/2W
California
H = 02 32 53
Mag 4 3/4
Resolute
eP 02 40 (31)

DECEMBER 29
Resolute
e(P) 03 01 33

DECEMBER 29
U.S.C.G.S.
2S, 126E
Spice Islands
H = 07 04 14
Resolute
eP 07 18 19 c

DECEMBER 29
Canadian Arctic
H = 09 17 28
Mag 4.0
h = 9 km
Resolute
eP_n 09 19 03.5
iP_1 09 19 24
i 09 19 44
S_n 09 20 12
e 09 20 40
L_g 09 20 51
D = 730 km

DECEMBER 29
Resolute
e(P) 17 35 08

DECEMBER 29
U.S.C.G.S.
21 1/2S, 174W
Tonga Islands
H = 17 14 40
Resolute
eS 17 41.3
SS 17 48.6
eL 18 02.9

DECEMBER 29
U.S.C.G.S.
18N, 145E
Mariana Islands
H = 20 35 08
h = 350 km
Mag 6 - 6 1/4
Alberni
iP 20 46 27 d
Horseshoe Bay
iP 20 46 27 d
Resolute
iP 20 46 45 d
eS 20 56 18
(PS) 20 58.0
(sS) 20 58.9
SS 21 01 40
sSS 21 03.6
G 21 07.5

DOMINION OBSERVATORIES

Victoria
eP 20 46 32 d

DECEMBER 29
U.S.C.G.S.
8 1/2S, 122E
Flores Islands
H = 21 27 17
Resolute
eP' 21 45 50

DECEMBER 30
49°08'N, 124°13'W
West of Nanaimo, B.C.
H = 02 05 25.7
Mag 1.8
Alberni
iP 02 05 33.2
D = 47 km
Horseshoe Bay
eP 02 05 37.6
D = 73 km
Victoria
iP 02 05 40.4
e 02 05 52.5
D = 92 km

DECEMBER 30
Resolute
eP 11 34 06

DECEMBER 31
Resolute
e(P) 02 59 20

DECEMBER 31
U.S.C.G.S.
3S, 139 1/2E
Northern New Guinea
H = 10 29 23
Resolute
eP 10 43 18

DECEMBER 31
Resolute
eP 19 56 01

DECEMBER 31
U.S.C.G.S.
37 1/2N, 25W
Azores Islands
H = 20 52 55
Resolute
eP 21 01 43
eS 21 08 50
S_S 21 11.4
e_L^C 21 12.5

SEISMOLOGICAL BULLETIN - 1959

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the last quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

OCTOBER 1 at 05 41 39 U.T. Magnitude 2.9. Originated 116 km from Resolute, N.W.T.

OCTOBER 1 at 11 00 51 U.T. Magnitude 2.4. Originated 115 km from Resolute, N.W.T.

OCTOBER 2 at 05 55 40 U.T. Magnitude 2.7. Originated 115 km from Resolute, N.W.T.

OCTOBER 2 at 06 57 34 U.T. Magnitude 2. . Originated 115 km from Resolute, N.W.T.

OCTOBER 7 at 03 02 21 U.T. Magnitude 2.7. Originated 115 km from Resolute, N.W.T.

OCTOBER 7 at 03 49 10 U.T. Magnitude 2.1. Originated 115 km from Resolute, N.W.T.

OCTOBER 17 at 05 11 49 U.T. Magnitude 2.4. Originated 115 km. from Resolute, N.W.T.

OCTOBER 20 at 23 29 20 U.T. Magnitude 3.4. Originated 258 km from Resolute, N.W.T., at a depth of about 26 km.

OCTOBER 21 at 07 46 17 U.T. Magnitude 5.3. Epicentre at 65°N; 87°W. Near Southampton Island, N.W.T.

OCTOBER 25 at 02 07 42 U.T. Magnitude 2.9. Originated 430 km from Resolute, N.W.T.

OCTOBER 31 at 19 20 24 U.T. Magnitude 3.1. Originated 270 km from Resolute, N.W.T.

NOVEMBER 16 at 11 48 57 U.T. Magnitude 3.6. Originated 197 km from Resolute, N.W.T.

DECEMBER 15 at 07 10 28 U.T. Magnitude 2.1. Originated 222 km from Resolute, N.W.T., at a depth of about 35 km.

DECEMBER 17 at 12 47 00 U.T. Magnitude 1.3. Originated 57.5 km from Resolute, N.W.T.

DOMINION OBSERVATORIES

DECEMBER 17 at 19 13 25 U.T. Magnitude 2.1. Originated 228 km from Resolute, N.W.T., at a depth of about 34 km.

DECEMBER 17 at 21 36 19 U.T. Magnitude 2.1. Originated 246 km from Resolute, N.W.T., at a depth of about 27 km.

DECEMBER 18 at 15 37 25 U.T. Magnitude 2.6. Originated 60 km from Resolute, N.W.T.

DECEMBER 21 at 00 06 59 U.T. Magnitude 2.2. Originated 164 km from Resolute, N.W.T., at a depth of about 17 km.

DECEMBER 21 at 01 26 52 U.T. Magnitude 1.9. Originated 172 km from Resolute, N.W.T.

DECEMBER 23 at 01 26 44 U.T. Magnitude 4.6. Originated 750 km from Resolute, N.W.T.

DECEMBER 26 at 09 56 02 U.T. Magnitude 1.8. Originated 44 km from Resolute, N.W.T.

DECEMBER 29 at 09 17 28 U.T. Magnitude 4.0. Originated 730 km from Resolute, N.W.T., at a depth of about 9 km.

SEISMOLOGICAL BULLETIN - 1959

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

The following disturbances was recorded during the last quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

OCTOBER 18 at 07 47 22 U.T. Magnitude 2.6. Epicentre at 45°54'N; 75°07'W. Near Chénéville, Que.

DOMINION OBSERVATORIES

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the fourth quarter of 1959. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

OCTOBER 6 Magnitude 2.4. Epicentre at 49.6N, 114.7W. Crowsnest Area.

OCTOBER 15 at 04 51 12.2 U.T. Magnitude 2. Epicentre at 48 48N, 125 45W. West Coast of Vancouver Island.

OCTOBER 16 at 17 54 23.8 U.T. Magnitude 2.2. Epicentre at 48.5N, 124.7W. North of Cape Flattery.

OCTOBER 21 at 08 04 36.5 U.T. Magnitude 1. Epicentre at 48.9N, 125.7W.

OCTOBER 22 at 01 10 03.8 U.T. Magnitude 2.5. Epicentre at 50.2N, 124.1W. Head of Jervis Inlet.

OCTOBER 22 at 03 37 27.6 U.T. Magnitude 2.7. Epicentre at 48.0N, 122.1W. Everett Washington.

OCTOBER 24 at 00 34 47.1 U.T. Magnitude 2.1. Epicentre at 48 17N, 124 38W. Due south of Neah Bay, Washington.

OCTOBER 27 at 06 12 17 U.T. Epicentre at 42.5N, 127W. Off coast of Oregon.

OCTOBER 30 at 01 25 20.7 U.T. Magnitude 1.3. Epicentre at 49 19N, 124 07W. South of Lasqueti Island.

OCTOBER 31 at 19 22 24.2 U.T. Magnitude 4.0. Epicentre at 44N, 125W. Off Coast of Oregon.

OCTOBER 31 at 19 43 56.7 U.T. Magnitude 2.0. Epicentre at 48.3N, 123.0W. Strait of Juan de Fuca.

NOVEMBER 5 at 07 47 36.2 U.T. Magnitude 2.9 Epicentre at 47.1N, 124.8W. Off coast of Washington.

NOVEMBER 11 at 02 38 39.5 U.T. Magnitude 2.1. Epicentre at 48.4N, 122.5W. Mount Vernon, Washington.

NOVEMBER 18 at 00 10 19.6 U.T. Magnitude 2.2. Epicentre at 48.5N, 121.8W. Near Concrete, Washington.

NOVEMBER 21 at 01 09 58.8 U.T. Magnitude 2.3. Epicentre at 48°24'N, 122° 39'W. Near Anacortes, Washington.

NOVEMBER 21 at 03 32 48.8 U.T. Magnitude 2.2. Epicentre at 48.4N, 121.3W. Northwest of Glacie Peak, Washington.

NOVEMBER 24 at 06 05 44.9 U.T. Magnitude 3.1 Epicentre at 46°55'N, 121° 47'W. Mount Rainier.

NOVEMBER 27 at 22 53 09.4 U.T. Magnitude 2.0. Epicentre at 50.1N, 123.9W. Head of Jervis Inlet.

DOMINION OBSERVATORIES

I.G.Y. MICROSEISMIC BULLETIN

OCTOBER - DECEMBER - 1959

NOTES

Three stations only have been read,

An inland station - Ottawa,
An Arctic station - Resolute, and
A Pacific station - Victoria

The following instruments are used:

Ottawa - Benioff Z T_s = 1 sec. T_g = 75 sec.
Resolute - Columbia Z T_s = 10.2 sec. T_g = 20 sec.
Victoria - Benioff Z T_s = 1 sec. T_g = 75 sec.

SEISMOLOGICAL BULLETIN - 1959

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
October 1	0	1	1.5	5.0	1	0.81	5.0	3	0.13	2.5
	6	1	1.6	4.5	1	1.40	6.0	3	0.35	4.0
	12	1	1.9	4.7	1	1.90	6.3	3	0.38	3.5
	18	1	1.5	4.8	1	1.20	5.5	3	0.32	3.5
2	0	3	1.1	4.3	1	0.74	6.2	3	0.30	3.5
	6	3	0.7	4.0	1	0.49	6.0	3	0.28	3.5
	12	3	0.4	3.0	1	0.48	6.0	3	0.24	3.0
	18	1	0.9	3.3	1	0.43	6.4	3	0.13	2.5
3	0	...			1	0.50	4.8	3	0.15	2.5
	6	...			3	0.30	5.1	3	0.11	2.5
	12	...			3	0.35	4.7	3	0.11	2.5
	18	...			3	0.30	4.1	3	0.09	2.5
4	0	...			3	0.35	4.1	3	0.09	2.5
	6	...			3	0.24	3.9	0,0		
	12	...			3	0.23	4.6	3	0.07	2.0
	18	...			3	0.16	4.5	0,0		
5	0	...			1	0.16	4.4	0,0		
	6	...			1	0.43	4.2	0,0		
	12	...			...			0,0		
	18	...			...			3	.25	3.0
6	0	...			1	0.32	3.7	3	.20	3.0
	6	...			1	0.28	3.8	3	.35	4.0
	12	...			...			...		
	18	...			1	0.40	4.0	3	.28	4.0
7	0	...			1	0.45	3.8	3	.32	3.5
	6	...			1	0.35	4.0	3	.32	3.5
	12	...			1	0.50	4.0	3	.30	3.5
	18	...			1	0.20	4.0	3	.40	4.0
8	0	...			1	0.40	3.9	3	.32	3.0
	6	...			1	0.43	4.0	3	.40	3.5
	12	...			...			3	.60	4.0
	18	...			1	0.27	4.5	3	.50	3.0
9	0	...			1	0.13	5.5	3	.75	4.0
	6	...			1	0.50	6.4	3	.86	4.5
	12	...			1	0.80	7.2	3	.80	4.5
	18	...			1	1.10	6.8	3	.75	4.5
10	0	...			1	1.10	6.5	3	.50	4.0
	6	...			1	1.00	6.4	3	.40	3.5
	12	...			1	1.00	6.0	3	.45	3.5
	18	...			1	0.70	5.9	3	.61	5.5
11	0	...			1	0.70	6.0	3	.45	3.5
	6	...			1	0.45	5.4	3	.57	3.5
	12	...			1	0.32	5.5	3	.53	3.5
	18	...			1	0.29	5.2	...		
12	0	...			1	0.21	5.4	...		
	6	...			1	0.20	5.4	...		

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
October 12	12	...			1	0.23	5.2	...		
	18	...			1	0.20	5.5	...		
13	0	...			3	0.20	5.3	...		
	6	...			3	0.26	4.6	...		
	12	...			3	0.23	4.6	...		
	18	...			3	0.30	6.7	...		
14	0	...			1	0.40	7.5	3	.80	5.0
	6	...			1	0.50	7.4	3	.75	5.0
	12	...			1	0.48	7.3	3	.53	4.0
	18	...			1	0.48	6.4	3	.6	4.5
15	0	...			3	0.53	6.3	3	.7	4.5
	6	...			1	0.53	5.7	3	.6	4.5
	12	...			1	0.47	5.0	3	.6	4.5
	18	...			1	0.44	5.2	3	1.4	6.5
16	0	...			...			3	1.2	6.0
	6	...			1	0.50	4.9	3	1.1	6.0
	12	...			1	0.52	4.6	3	.9	6.0
	18	...			1	0.45	4.8	3	.8	6.0
17	0	...			1	0.40	5.1	3	.6	5.5
	6	...			1	0.65	5.1	3	.6	5.5
	12	...			1	0.68	5.1	3	.5	5.5
	18	...			1	0.60	4.9	3	.6	5.0
18	0	...			1	0.75	5.7	3	.6	5.0
	6	...			1	0.93	5.7	3	.7	5.0
	12	...			1	0.85	5.4	3	.7	5.0
	18	...			1	0.82	5.4	3	.7	5.0
19	0	...			1	0.63	5.3	3	.6	5.0
	6	...			1	0.60	5.3	3	.6	5.0
	12	...			1	0.65	5.2	3	.6	5.0
	18	...			...			3	0.6	3.0
20	0	...			1	1.00	5.5	3	0.4	2.5
	6	...			1	1.50	5.6	3	0.5	2.5
	12	...			1	1.50	5.9	3	0.5	2.5
	18	...			1	1.90	5.9	3	0.5	2.0
21	0	...			...			3	0.6	6.0
	6	...			1	1.50	5.7	3	0.7	6.0
	12	...			1	2.00	6.1	3	0.4	5.0
	18	1	2.9	5.5	1	1.90	6.8	3	0.6	5.0
22	0	1	2.2	5.0	1	2.00	6.7	3	0.6	5.0
	6	3	2.2	5.0	1	2.10	7.0	3	0.7	5.0
	12	3	1.4	5.0	1	1.80	6.7	3	0.8	6.0
	18	3	1.7	5.0	1	1.20	6.1	3	0.7	5.0
23	0	3	4.6	8.0	1	4.00	8.9	3	2.6	8.5
	6	3	3.9	8.0	1	3.00	8.1	3	2.1	8.0
	12	3	3.5	8.0	1	1.60	7.5	3	2.0	8.0
	18	3	0.9	4.0	1	1.70	7.5	3	1.8	7.0

SEISMOLOGICAL BULLETIN - 1959

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
October 24	0	3	0.8	4.0	1	0.90	7.0	3	1.6	7.0
	6	3	0.8	4.0	1	0.73	6.8	3	1.6	7.0
	12	3	0.9	4.0	1	0.70	6.6	3	1.7	7.0
	18	3	0.8	4.0	3	0.65	6.6	3	1.6	6.5
25	0	3	0.7	3.7	...			3	1.3	6.5
	6	3	1.5	5.0	3	0.50	5.8	3	1.0	6.0
	12	3	1.2	4.2	3	0.33	6.0	3	1.0	6.0
	18	3	1.1	4.0	3	0.43	4.6	3	.7	5.0
26	0	3	0.8	4.0	3	0.53	4.5	3	.7	4.5
	6	3	0.8	4.0	3	0.53	4.5	3	.7	4.5
	12	3	0.8	4.0	3	0.60	4.9	3	.4	4.5
	18	3	1.0	4.4	3	0.65	4.7	3	.4	4.5
27	0	3	1.0	4.4	3	0.52	5.3	3	.4	4.5
	6	3	0.9	4.5	3	0.60	5.3	...		
	12	3	1.0	4.5	1	0.71	7.6	3	.8	6.0
	18	3	0.9	4.0	1	0.72	7.5	...		
28	0	3	0.9	4.0	3	0.75	5.0	3	1.0	7.0
	6	1	1.2	4.1	3	1.20	4.6	3	.9	6.5
	12	1	1.5	4.4	1	1.80	5.5	3	1.0	6.5
	18	1	2.4	4.2	1	2.00	5.7	3	.7	5.0
29	0	1	2.3	4.2	1	2.30	5.7	3	.7	5.0
	6	1	3.0	5.1	1	2.10	5.9	3	.9	5.0
	12	1	2.5	5.2	1	2.00	5.5	3	.6	5.0
	18	1	2.4	5.4	1	1.30	5.6	3	.6	5.0
30	0	1	2.5	5.7	1	1.00	5.1	...		
	6	1	2.2	5.4	1	0.70	5.4	3	.6	5.0
	12	1	2.0	5.4	1	0.70	5.3	3	.6	4.0
	18	1	2.1	5.5	1	0.69	5.0	3	.7	5.0
31	0	1	1.2	5.0	1	0.50	5.7	3	0.5	4.5
	6	1	1.2	5.0	1	0.48	4.7	3	0.5	4.5
	12	1	1.0	5.0	1	0.30	5.6	3	0.4	4.5
	18	3	0.9	5.0	1	0.30	5.7	3	0.4	4.5
November 1	0	3	0.4	3.5	1	0.27	5.6	3	0.5	4.5
	6	3	0.5	3.5	1	0.21	5.6	3	0.5	4.5
	12	3	0.4	3.0	3	0.21	5.6	3	0.4	4.5
	18	3	0.4	3.0	3	0.25	6.1	3	0.6	5.0
2	0	3	0.4	3.0	3	0.35	5.5	3	0.6	5.0
	6	3	0.6	3.5	1	0.43	5.5	3	0.4	5.0
	12	3	0.8	3.6	1	0.45	5.6	3	0.5	5.0
	18	3	1.0	4.0	1	0.46	5.5	3	0.5	5.0
3	0	3	1.3	4.4	1	0.51	4.8	3	0.4	5.0
	6	3	1.8	4.5	1	1.00	5.7	3	0.4	5.0
	12	3	2.9	5.0	...			3	0.5	3.5
	18	1	2.5	5.0	1	2.00	6.1	3	0.7	4.0
4	0	1	2.2	5.0	1	2.20	6.1	3	0.8	4.0
	6	1	1.7	4.7	1	2.00	6.2	3	0.8	4.0

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
November 4	12	1	1.3	4.2	1	1.30	6.3	3	0.6	4.5
	18	3	1.2	4.0	1	0.73	5.8	3	0.4	4.5
5	0	3	0.9	4.0	1	0.68	5.9	3	0.4	4.5
	6	3	0.9	4.0	1	0.60	5.8	3	0.4	4.5
	12	3	1.2	4.8	1	0.55	5.7	3	0.4	4.5
	18	3	1.2	4.8	1	0.43	6.1	3	0.4	4.5
6	0	3	0.9	4.3	1	0.37	6.2	3	0.4	4.5
	6	3	0.7	3.5	1	0.31	5.8	3	0.4	4.5
	12	3	0.8	4.4	1	0.43	5.5	3	0.4	4.5
	18	3	0.7	4.0	1	0.35	5.5	...		
7	0	3	0.6	4.0	1	0.18	6.0	3	0.4	4.5
	6	3	0.4	3.0	1	0.20	6.1	3	0.4	4.5
	12	1	0.8	3.5	1	0.25	5.4	3	0.4	4.5
	18	1	1.0	3.6	1	0.47	5.8	...		
8	0	1	1.6	3.8	...			...		
	6	1	1.1	3.8	1	0.53	6.5	...		
	12	1	1.4	3.7	1	0.68	6.3	...		
	18	1	0.9	3.8	1	1.00	6.3	...		
9	0	1	1.3	4.0	1	1.00	6.1	...		
	6	1	0.7	3.8	1	1.10	6.4	...		
	12	1	0.7	3.8	1	1.60	7.0	...		
	18	3	0.5	3.7	1	1.50	6.6	3	1.5	7.0
10	0	3	0.4	3.4	1	1.10	6.8	3	0.8	5.0
	6	3	0.4	3.0	1	1.00	6.6	3	0.8	5.0
	12	3	0.5	3.2	1	0.74	6.6	3	0.8	5.0
	18	3	0.5	3.3	1	0.36	6.6	3	0.7	5.0
11	0	3	0.5	3.2	1	0.31	6.3	3	0.7	5.0
	6	3	0.8	4.0	1	0.22	5.4	3	0.7	5.0
	12	3	1.4	4.7	1	0.44	4.9	3	0.7	5.0
	18	1	1.5	5.0	1	0.70	5.1	...		
12	0	3	1.0	4.4	1	0.44	5.1	...		
	6	3	0.6	4.0	1	0.41	4.9	...		
	12	3	0.7	4.0	1	0.48	4.9	...		
	18	3	0.7	4.0	1	0.32	4.8	3	0.5	3
13	0	3	0.6	3.4	1	0.30	4.5	3	0.4	3
	6	3	0.5	3.4	1	0.35	5.2	3	0.4	3
	12	3	0.5	3.4	1	0.19	4.8	3	0.5	4.5
	18	3	0.5	3.5	1	0.21	5.1	3	0.4	4.0
14	0	3	0.8	4.0	1	0.18	4.3	3	0.4	4.0
	6	3	0.7	4.0	1	0.21	5.1	3	0.5	4.0
	12	3	0.6	4.0	1	0.22	4.8	3	0.5	4.0
	18	3	0.5	4.0	1	0.16	4.7	3	0.5	3.5
15	0	3	0.4	3.0	...			3	0.5	3.5
	6	3	0.5	3.5	1	0.15	5.0	3	0.5	3.5
	12	3	1.2	3.7	...			3	0.7	3.0
	18	...			...			...		

SEISMOLOGICAL BULLETIN - 1959

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
November 16	0	1	3.0	4.0	1	0.67	4.7	3	0.4	3.0
	6	1	3.0	4.2	1	0.82	4.9	3	0.4	3.5
	12	1	3.2	4.5	1	0.90	5.1	3	0.4	3.5
	18	1	3.5	4.9	1	0.70	5.8	3	0.6	5.0
17	0	1	3.5	4.8	1	0.80	6.2	3	1.5	6.0
	6	1	2.9	5.0	1	0.92	6.8	3	1.5	5.0
	12	1	1.7	4.0	1	1.10	7.4	3	1.6	5.0
	18	3	1.7	4.0	1	1.10	7.1	3	1.8	6.0
18	0	3	1.7	4.0	1	0.70	6.7	3	1.5	6.0
	6	1	1.7	4.0	1	0.94	6.9	3	1.4	6.0
	12	1	2.5	4.5	1	0.80	7.1	3	1.4	6.0
	18	1	1.5	4.3	...			3	0.9	5.0
19	0	1	1.7	5.0	...			3	0.9	5.0
	6	1	2.1	4.9	...			3	1.0	5.0
	12	1	2.0	5.0	...			...		
	18	1	2.2	5.0	1	0.8	5.1	3	.8	4.5
20	0	1	2.6	5.0	...			...		
	6	1	2.7	5.0	1	1.20	6.1	3	0.7	3.0
	12	1	3.3	6.0	1	1.80	6.4	3	1.0	4.0
	18	1	5.0	7.0	1	3.00	6.6	3	2.0	4.5
21	0	1	5.0	7.0	1	2.90	7.6	3	3.6	7.0
	6	1	5.0	7.0	1	3.40	7.7	3	3.1	7.0
	12	1	4.0	7.0	1	2.50	7.6	3	3.2	7.0
	18	1	3.6	7.0	1	1.80	7.6	3	2.6	7.0
22	0	1	4.0	7.0	...			3	2.1	7.0
	6	1	3.4	7.0	1	2.20	7.5	3	1.8	5.0
	12	1	5.1	7.2	1	2.20	7.4	3	1.6	4.0
	18	1	5.0	7.8	1	3.50	7.6	3	1.8	4.0
23	0	1	5.1	8.0	1	3.80	8.0	3	3.4	6.5
	6	1	4.0	7.0	1	3.20	7.7	3	2.6	6.5
	12	1	3.0	7.0	1	2.40	7.2	3	2.2	6.5
	18	3	1.6	6.0	1	1.50	7.1	3	1.4	6.5
24	0	3	1.8	6.0	1	0.90	6.6	3	1.8	6.5
	6	3	1.4	6.0	1	0.80	6.6	3	2.2	6.0
	12	3	1.1	6.0	1	0.77	6.4	3	2.1	6.0
	18	3	0.6	4.0	1	0.65	6.4	3	1.4	6.0
25	0	3	0.6	4.0	1	0.50	6.4	3	0.8	5.0
	6	3	0.8	4.0	1	0.57	6.0	3	0.8	5.0
	12	3	0.7	4.0	1	0.37	6.2	3	0.8	5.0
	18	3	1.6	5.5	1	0.55	5.7	3	0.7	5.0
26	0	1	2.7	5.5	1	0.58	5.8	3	0.7	5.0
	6	1	2.5	5.0	1	0.65	5.8	3	0.6	5.0
	12	1	3.3	5.1	1	0.80	6.4	3	0.6	5.0
	18	1	3.1	5.2	1	0.78	6.2	3	0.7	5.5
27	0	1	8.0	5.5	...			...		
	6	1	10.4	5.5	1	4.60	6.0	3	2.8	6.0

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
November 27	12	1	9.6	6.0	1	3.80	6.3	3	2.6	2.0
	18	1	5.0	5.8	1	2.00	5.9	3	1.3	7.0
28	0	1	3.4	5.6	1	1.20	5.3	3	0.8	6.0
	6	1	2.6	5.5	1	0.90	5.3	3	0.6	6.0
	12	1	2.4	5.5	1	0.60	6.1	3	0.6	6.0
	18	3	2.0	5.0	1	0.45	5.8	3	0.6	6.0
29	0	3	1.4	5.0	1	0.50	5.9	3	0.5	5.0
	6	3	1.3	4.4	1	0.70	6.8	3	1.0	6.0
	12	3	1.7	4.0	1	1.05	6.7	3	1.2	7.0
	18	3	1.3	4.0	1	1.00	6.7	3	1.0	6.0
30	0	3	1.1	4.0	1	0.90	6.7	3	0.8	4.0
	6	3	1.3	4.0	1	0.85	6.7	3	1.1	6.0
	12	3	1.3	4.0	...			3	0.8	6.0
	18	3	1.3	4.0	1	0.60	6.1	3	0.7	5.0
December 1	0	3	1.3	4.0	1	0.60	5.8	3	1.0	5.0
	6	3	1.3	4.0	1	0.68	6.0	3	1.1	6.0
	12	3	1.5	4.0	1	0.68	6.3	3	1.0	5.0
	18	1	2.2	5.0	1	1.00	6.2	3	1.2	6.0
2	0	1	1.9	5.0	1	0.68	6.2	3	1.3	6.0
	6	1	1.8	5.2	1	0.62	6.4	3	1.3	6.0
	12	1	1.8	5.5	...			3	1.4	6.0
	18	1	2.0	5.2	1	0.65	6.5	3	1.8	5.5
3	0	1	1.5	5.0	1	0.44	5.9	3	2.0	6.0
	6	1	1.2	5.0	1	0.67	6.2	3	2.1	7.0
	12	1	1.2	5.0	1	0.52	6.2	3	2.0	5.5
	18	3	0.8	4.0	1	0.65	6.2	3	0.6	4.0
4	0	3	0.7	4.0	1	0.62	6.3	3	0.5	4.0
	6	3	0.7	4.0	1	0.55	6.0	3	0.6	3.5
	12	3	0.9	4.0	1	0.62	6.3	3	0.6	4.0
	18	3	0.9	4.0	1	0.50	6.1	3	1.4	5.5
5	0	3	1.0	4.0	1	0.55	6.5	3	1.5	6.0
	6	3	1.0	4.5	1	0.64	7.1	3	1.3	5.5
	12	3	1.0	5.0	1	1.10	7.2	3	1.3	5.5
	18	3	0.8	4.0	1	0.80	6.9	3	1.3	5.0
6	0	3	0.9	4.0	1	0.73	6.8	3	0.6	3.5
	6	3	0.9	4.0	1	0.75	6.5	3	0.8	5.0
	12	3	0.8	4.0	1	0.72	6.6	3	0.6	4.0
	18	3	0.8	4.0	1	0.66	6.7	...		
7	0	3	0.8	4.0	1	0.53	6.2	3	3.0	5.5
	6	1	1.5	5.0	1	0.52	5.9	3	1.6	6.0
	12	1	1.1	3.7	1	0.47	5.7	3	2.2	6.0
	18	1	2.0	4.5	1	0.68	6.1	3	1.4	6.0
8	0	1	2.0	4.5	1	1.70	7.2	3	1.4	6.0
	6	1	1.9	4.3	1	1.90	7.1	3	1.3	5.5
	12	1	2.2	5.0	1	1.20	7.0	3	1.4	6.0
	18	1	2.5	5.0	1	1.30	7.2	...		

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
December 9	0	1	3.2	5.5	1	1.40	6.0	3	0.7	6.0
	6	1	4.1	5.7	1	1.80	6.2	3	1.5	6.0
	12	...			1	2.40	6.0	3	1.5	6.0
	18	...			1	2.60	6.1	3	1.1	6.0
10	0	...			1	2.30	6.0	3	0.9	5.5
	6	...			1	1.50	6.1	3	1.1	6.0
	12	...			1	1.10	6.1	3	1.2	6.0
	18	3	1.2	4.0	3	1.40	7.4	3	2.0	7.0
11	0	3	1.2	4.0	1	2.50	8.1	3	2.0	8.0
	6	3	1.2	4.0	1	2.30	7.8	3	1.1	8.0
	12	3	1.2	4.0	1	1.50	7.8	3	1.2	5.0
	18	3	1.2	4.0	1	1.60	7.7	...		
12	0	3	0.8	4.0	1	2.10	7.7	...		
	6	3	0.8	4.0	1	1.50	7.7	...		
	12	3	0.7	4.0	1	0.90	7.0	...		
	18	3	0.8	4.0	1	0.70	6.7	...		
13	0	3	0.8	4.0	1	0.66	7.1	3	1.8	6.0
	6	3	0.8	4.0	1	0.52	6.6	3	1.5	6.0
	12	3	1.2	4.0	1	0.62	6.4	3	1.3	6.0
	18	3	1.2	4.0	1	0.78	6.3	3	1.5	6.0
14	0	3	1.7	4.0	1	0.88	6.6	3	1.5	6.0
	6	1	1.7	4.0	1	1.80	6.5	3	1.7	5.0
	12	1	2.4	4.1	1	1.40	7.1	3	1.6	5.0
	18	1	1.5	4.3	1	1.40	7.1	3	3.0	6.0
15	0	1	1.5	4.0	...			...		
	6	1	1.2	4.0	1	2.20	7.3	3	2.3	6.0
	12	1	1.2	4.1	1	2.20	7.2	3	2.3	6.0
	18	3	1.7	5.0	1	1.80	7.1	3	1.6	6.0
16	0	3	2.3	5.3	1	0.90	6.7	3	1.4	6.0
	6	3	1.4	5.0	1	1.50	6.7	2	1.5	7.0
	12	3	1.7	4.6	1	1.10	6.6	2	1.2	7.0
	18	3	1.5	5.0	1	0.90	6.3	2	1.7	7,0
17	0	3	1.3	4.5	1	0.80	6.0	2	1.5	6.5
	6	3	1.1	4.2	1	0.55	6.2	2	1.4	6.0
	12	3	1.0	4.5	1	1.50	6.9	2	1.4	6.0
	18	3	1.4	4.9	...			2	1.1	5.0
18	0	3	1.7	4.5	1	1.50	6.8	2	1.1	4.5
	6	1	2.9	4.8	1	1.30	6.5	2	2.2	5.0
	12	1	2.9	5.5	1	1.40	6.5	2	2.2	6.0
	18	1	3.7	6.0	...			2	2.4	6.0
19	0	1	7.5	6.5	1	1.40	6.4	2	2.6	7.0
	6	1	4.4	6.0	1	1.50	6.3	2	3.0	6.0
	12	1	3.5	6.0	1	1.60	6.8	2	2.5	5.5
	18	1	3.5	6.0	1	2.60	7.1	2	3.0	6.0

DOMINION OBSERVATORIES

DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
December 20	0	1	3.0	5.1	1	1.60	6.4	2	3.0	6.5
	6	1	2.3	5.0	1	1.10	6.3	2	2.3	6.0
	12	1	2.3	5.0	1	1.20	6.4	2	1.5	6.0
	18	3	2.2	5.0	1	1.10	6.2	2	2.6	7.0
21	0	3	2.0	5.0	1	0.95	6.6	2	2.5	7.5
	6	1	3.2	6.0	1	1.45	7.1	2	2.7	7.0
	12	1	3.9	6.3	...			2	2.2	7.0
	18	1	3.7	6.3	1	3.70	8.2	2	2.7	9.0
22	0	1	5.0	7.0	1	2.85	8.1	2	2.3	8.0
	6	1	3.0	6.0	1	2.40	8.0	2	2.3	8.0
	12	3	1.7	5.4	1	2.05	7.7	2	2.0	7.0
	18	3	1.9	5.4	1	1.50	7.5	2	1.6	5.0
23	0	3	1.9	5.5	1	1.10	7.1	...		
	6	1	2.7	5.5	1	1.10	6.9	3	0.7	4.5
	12	1	2.7	5.5	1	1.05	6.5	3	1.1	5.0
	18	1	2.7	5.5	1	1.30	6.7	3	0.7	4.5
24	0	1	3.2	5.8	1	1.45	6.5	3	0.9	4.5
	6	1	2.7	5.5	1	1.20	5.8	3	1.2	5.0
	12	1	2.4	5.5	1	0.70	6.1	3	0.8	4.5
	18	1	2.0	5.8	1	0.65	5.9	...		
25	0	1	1.8	6.0	3	0.65	6.3	3	0.6	4.0
	6	3	1.8	6.0	1	0.54	7.6	3	1.0	5.5
	12	3	1.8	6.0	1	1.30	7.8	3	1.9	6.5
	18	3	1.2	5.0	1	1.45	7.5	3	1.4	8.0
26	0	3	1.8	6.0	1	1.10	7.5	3	2.0	7.0
	6	3	1.5	5.0	1	0.80	7.8	3	1.5	6.0
	12	3	1.2	5.0	1	0.55	6.9	3	1.0	4.0
	18	3	0.9	5.0	1	0.45	6.1	...		
27	0	3	1.3	5.0	1	1.00	6.4	2	1.7	5.5
	6	3	1.6	6.0	1	1.50	6.5	2	2.8	5.5
	12	3	1.4	6.0	1	1.10	6.4	2	2.2	5.0
	18	3	0.6	4.0	...			...		
28	0	3	0.6	4.0	1	0.42	5.8	2	1.4	5.5
	6	3	0.6	4.0	1	0.48	6.5	2	1.3	5.0
	12	3	0.6	4.0	1	0.57	6.8	3	1.0	5.0
	18	3	0.4	3.0	1	0.45	5.9	3	0.9	6.0
29	0	3	0.5	3.1	1	0.51	5.6	3	0.9	6.0
	6	3	0.6	3.1	1	1.10	8.1	3	1.0	6.0
	12	1	2.3	4.0	1	1.15	7.5	3	1.0	6.0
	18	1	4.3	5.0	1	1.00	7.1	3	0.9	6.0
30	0	1	4.4	5.1	1	1.00	5.8	3	0.9	5.5
	6	1	3.1	5.1	1	1.10	5.5	3	0.9	5.5
	12	1	3.0	5.1	1	0.68	5.7	3	1.0	5.5
	18	1	2.6	5.0	1	0.93	5.7	3	1.4	6.0
31	0	1	2.3	5.0	1	0.85	5.8	3	1.5	6.0
	6	1	2.6	5.0	1	0.55	5.9	3	1.0	5.5

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DATE	HOUR	OTTAWA			RESOLUTE			VICTORIA		
		K	A	T	K	A	T	K	A	T
December 31	12	1	1.7	5.0	1	0.62	5.5	3	1.2	5.5
	18	1	1.2	4.0	1	0.47	5.8	3	1.0	5.5