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SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

NOV 30 1960

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.

SEISMOLOGICAL BULLETIN - 1959

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 Impedance 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.

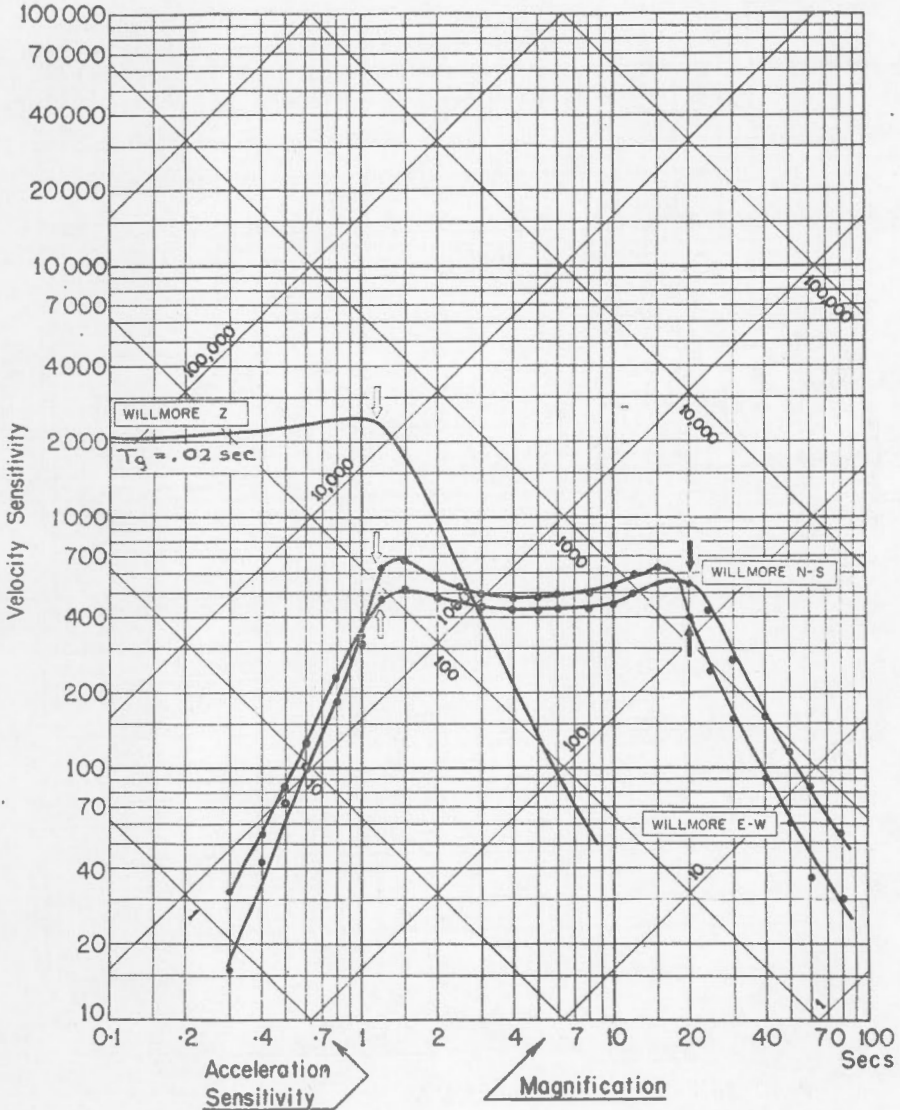
DOMINION OBSERVATORIES

NOTES

JANUARY - MARCH - 1959

1. Ottawa The short period Vertical Benioff seismograph was
Ontario 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



$\phi = 49^\circ 16' 14'' \text{N}$ $\lambda = 124^\circ 49' 18'' \text{W}$ Altitude

Foundation: Basic volcanic rock

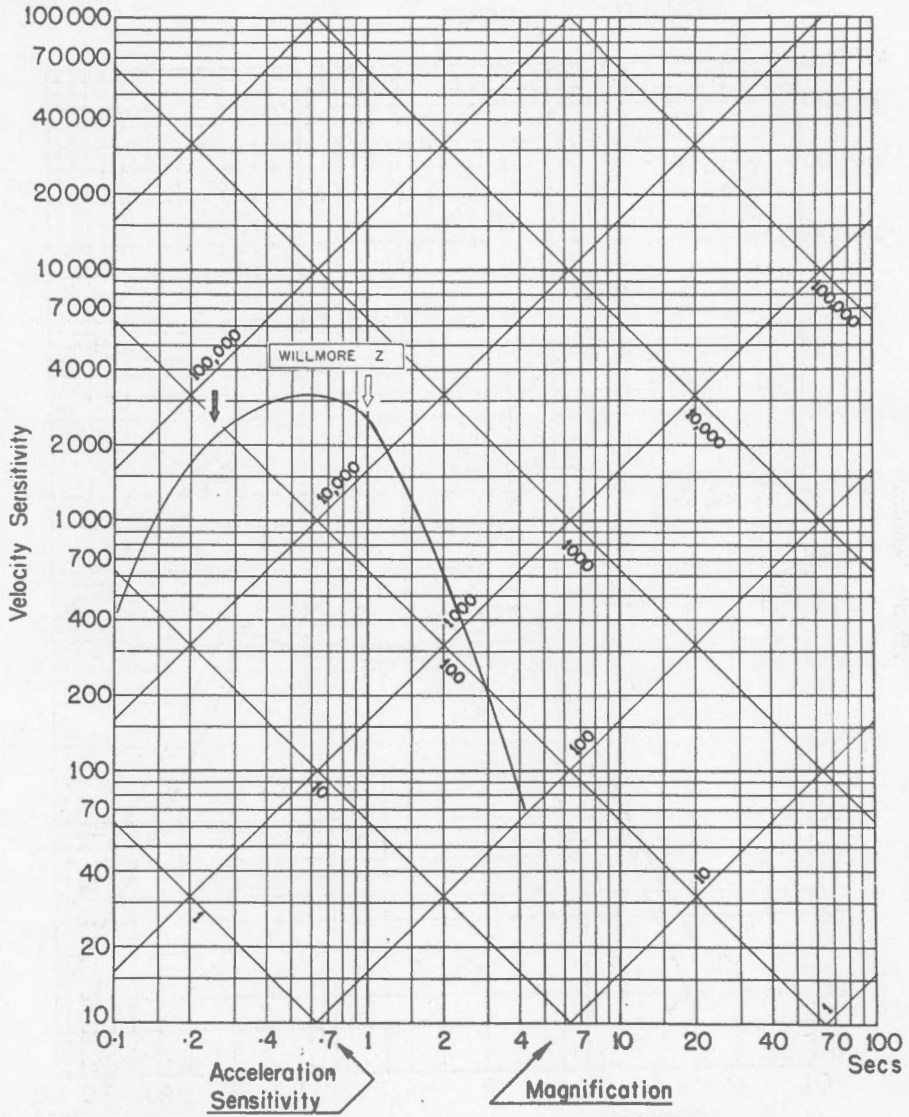
$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: July 9 1957

Read from start of minute mark.

STATION: BANFF



$\phi = 51^{\circ} 10.3' N$ $\lambda = 115^{\circ} 33.5' W$ Altitude

Foundation : Bedrock

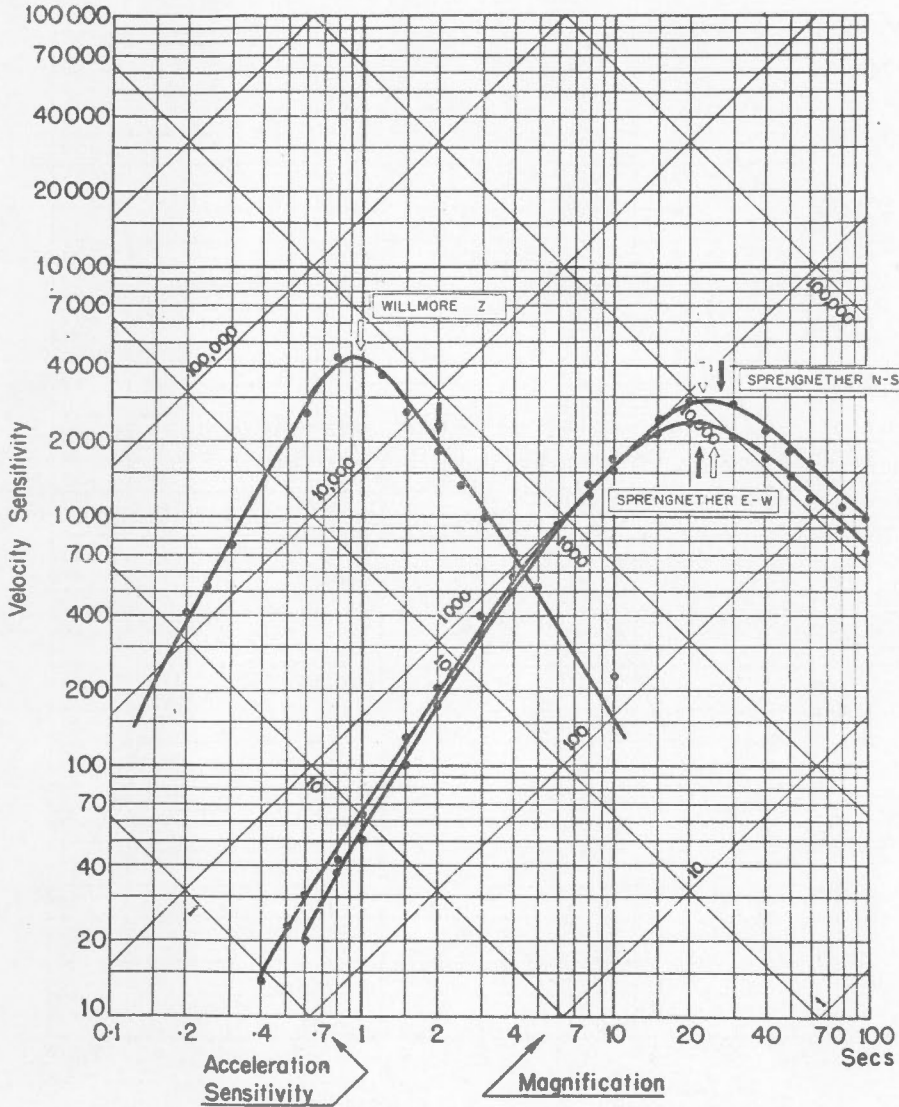
$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: Estimated Curve

CALIBRATION CURVES

STATION: HALIFAX



$\phi = 44^\circ 38'N$ $\lambda = 68^\circ 36'N$ Altitude 56M

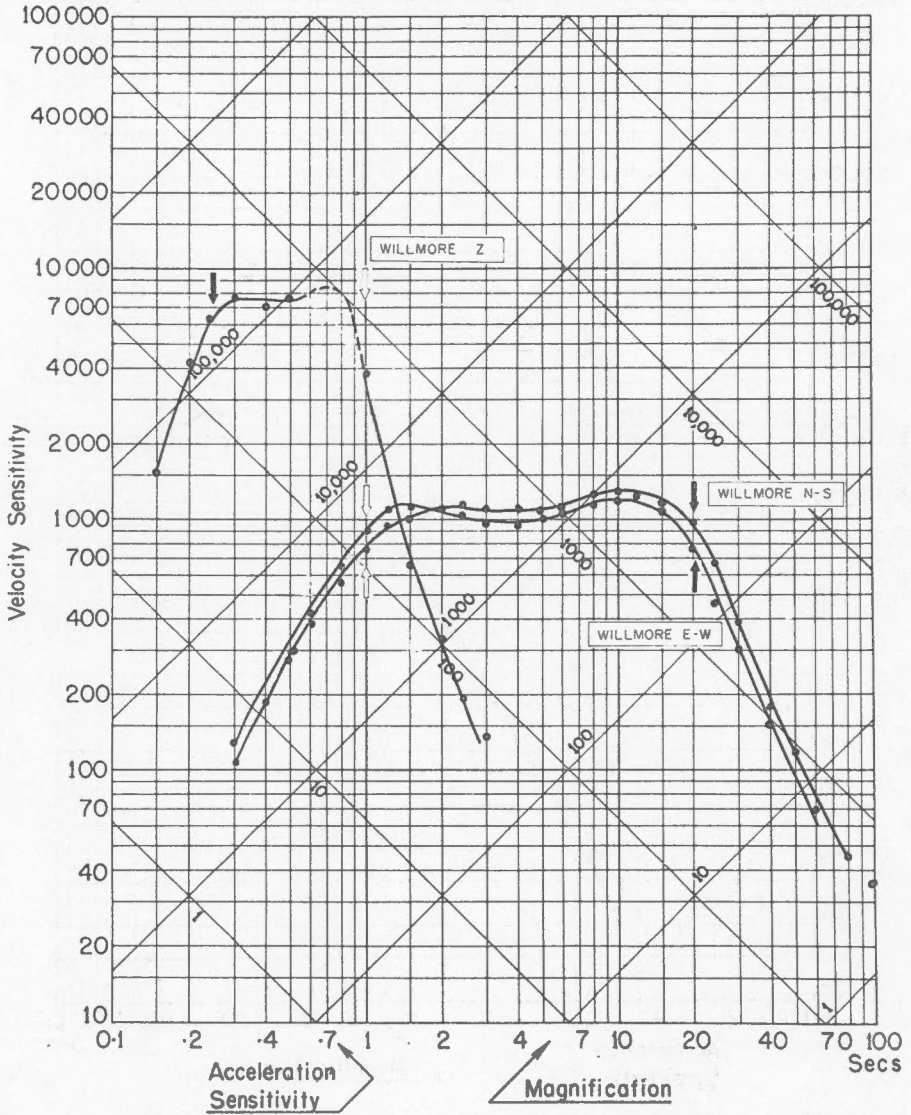
Foundation : Carbonaceous slate

$T_s \uparrow$

$T_g \uparrow$

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

CALIBRATION CURVES
STATION: HORSESHOE BAY



$\phi = 49^{\circ} 22'39''N$ $\lambda = 123^{\circ} 16'33''W$ Altitude

Foundation : Quartz diorite

$T_s \uparrow$

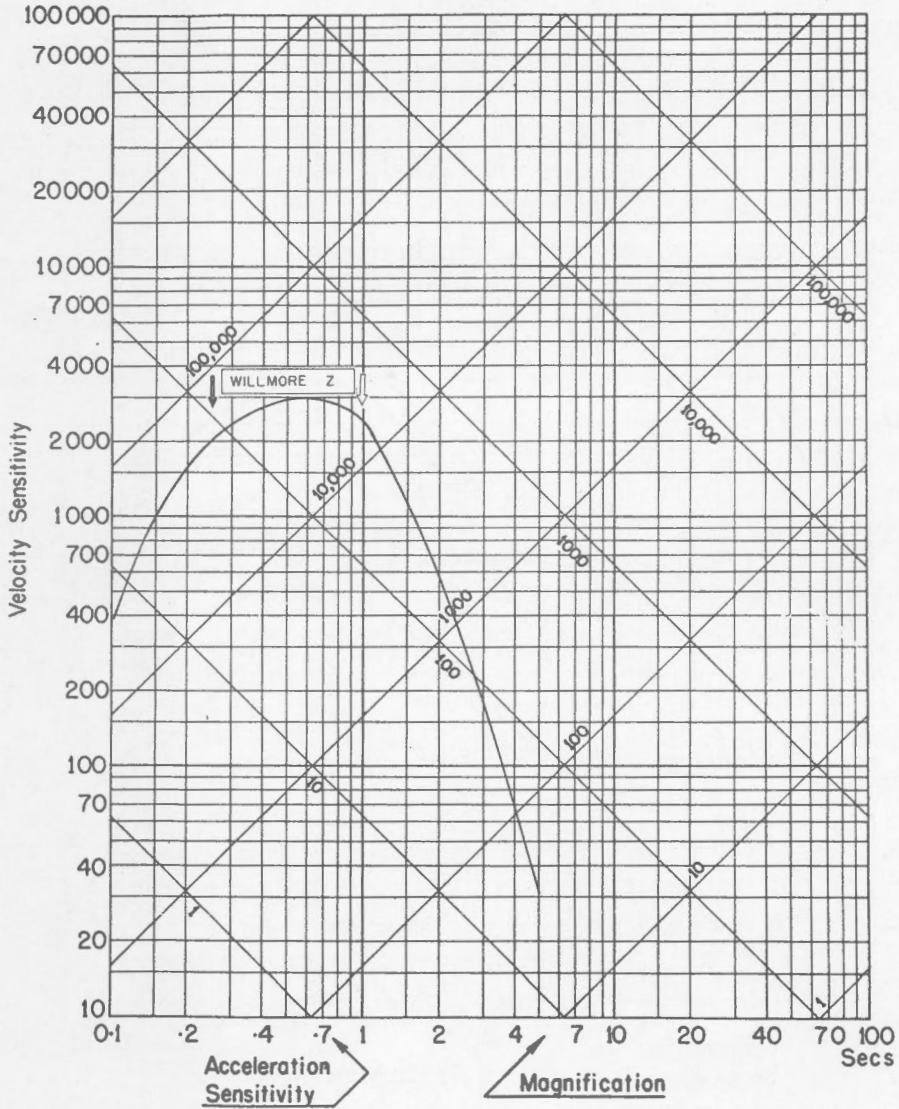
$T_g \uparrow$

Date of Calibration: July 17 1957

Read from start of minute mark.

CALIBRATION CURVES

STATION: LILLOOET



$\phi = 50^\circ 41.73'$ $\lambda = 121^\circ 54.97'$ Altitude

Foundation: Shallow overburden on acid intrusives

$T_s \uparrow$

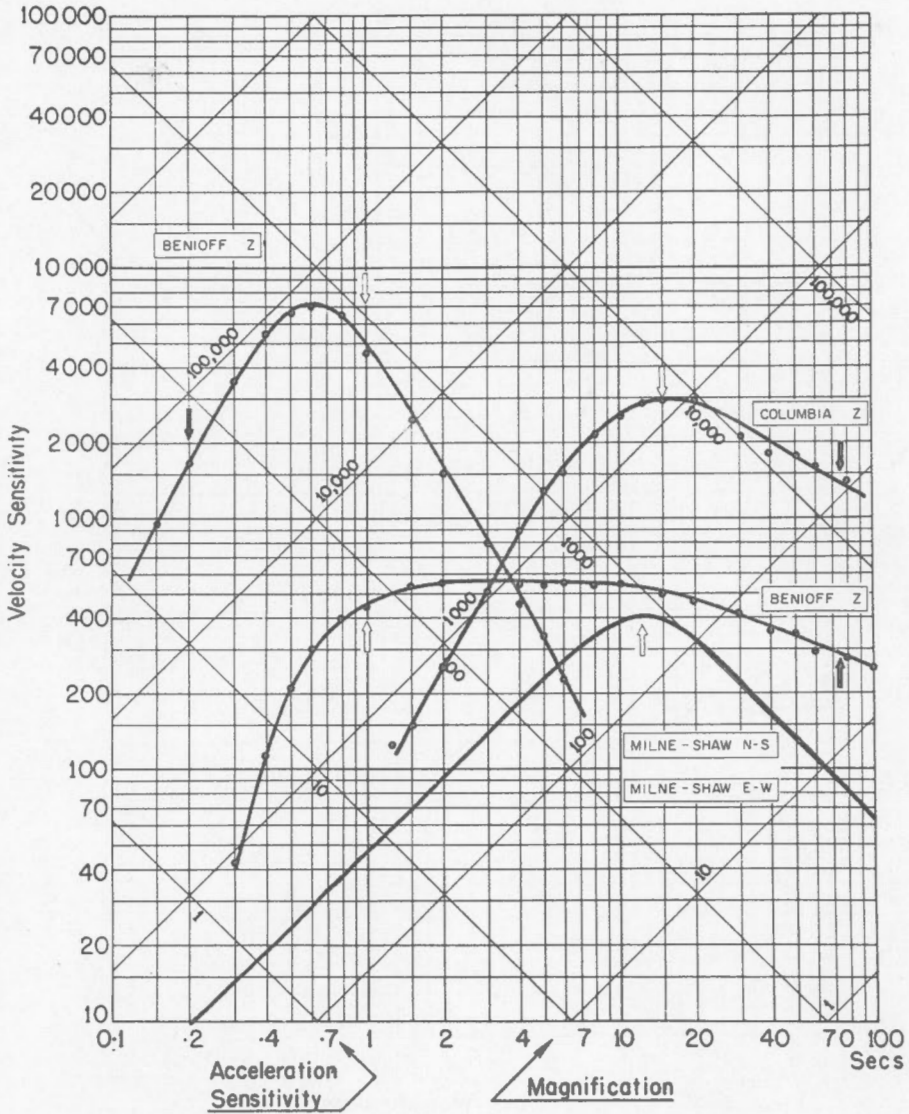
$T_g \uparrow$

Date of Calibration: Estimated

Read from start of minute mark.

CALIBRATION CURVES

STATION: OTTAWA



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

Foundation : Boulder clay on limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: Benioff SPZ - March 25/59

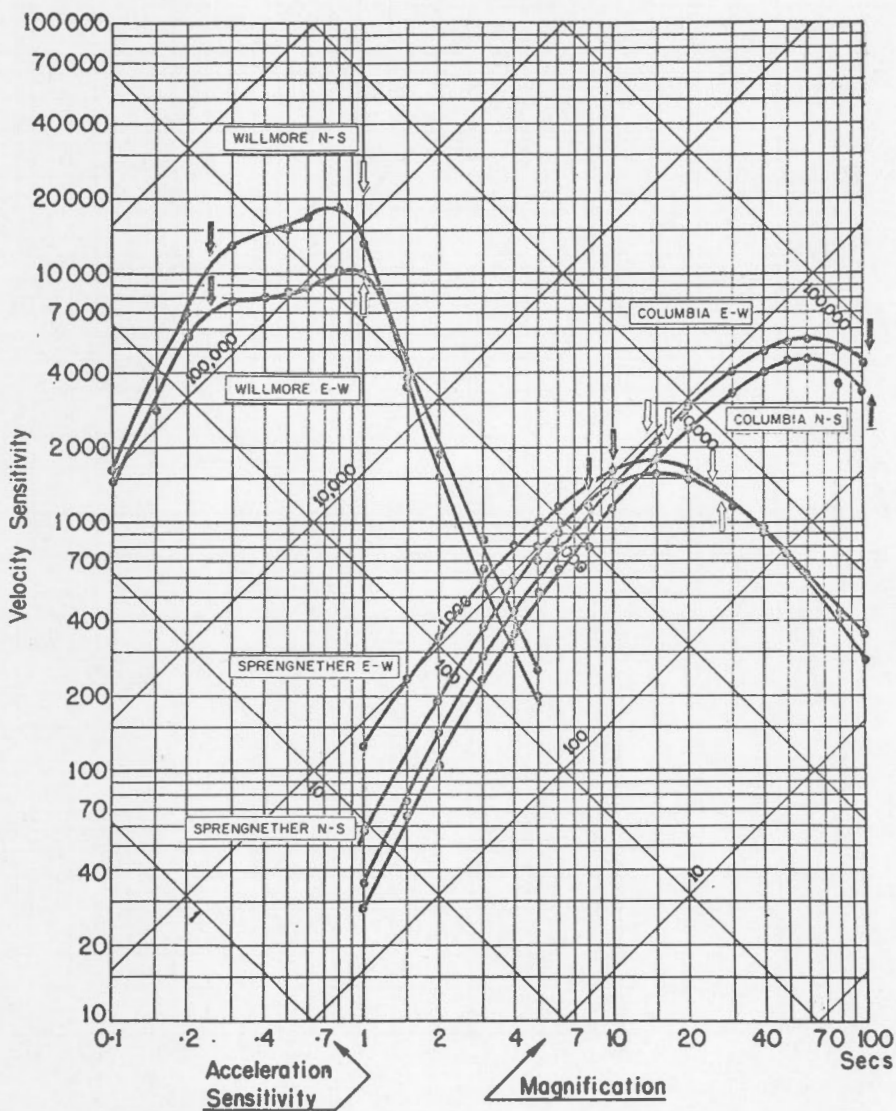
Benioff LPZ - May 28/58

Columbia LPZ - December 12/56

Read from end of minute mark.

CALIBRATION CURVES

STATION: RESOLUTE (Horizontals)



$\phi = 74^{\circ}41.2'N$ $\lambda = 94^{\circ}54.0'W$ Altitude 15M

Foundation : Early Palaeozoic limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: Aug.-Sept. 1958

Willmore N-S - August 18/58

Columbia N-S - September 15/58

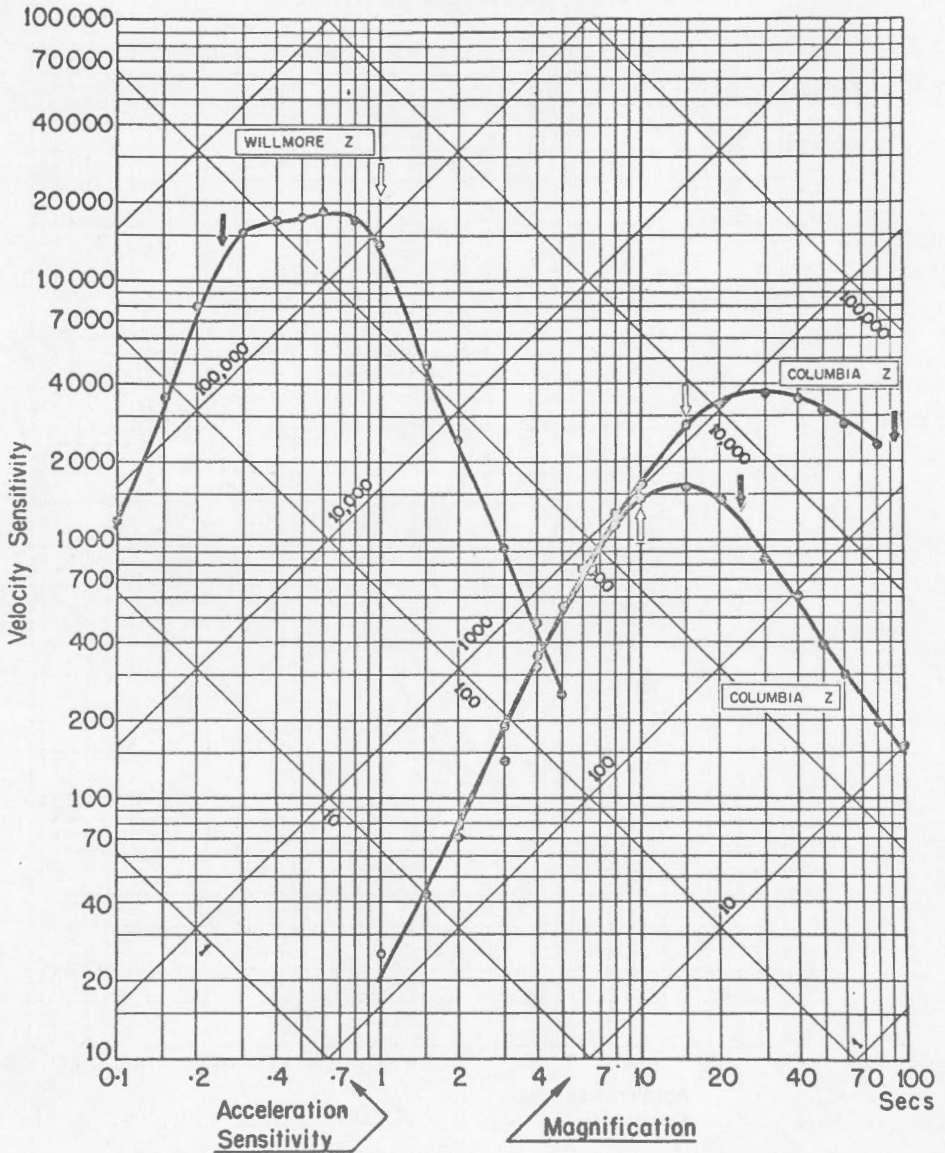
Willmore E-W - September 20/58

Columbia E-W - September 15/58

Sprengnether N-S - September 7/58

Sprengnether E-W - September 8/58

STATION: RESOLUTE (Verticals)



$\phi = 74^{\circ}41.2'N$ $\lambda = 94^{\circ}54.0'W$ Altitude 15M

Foundation: Early Palaeozoic limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: September 1958

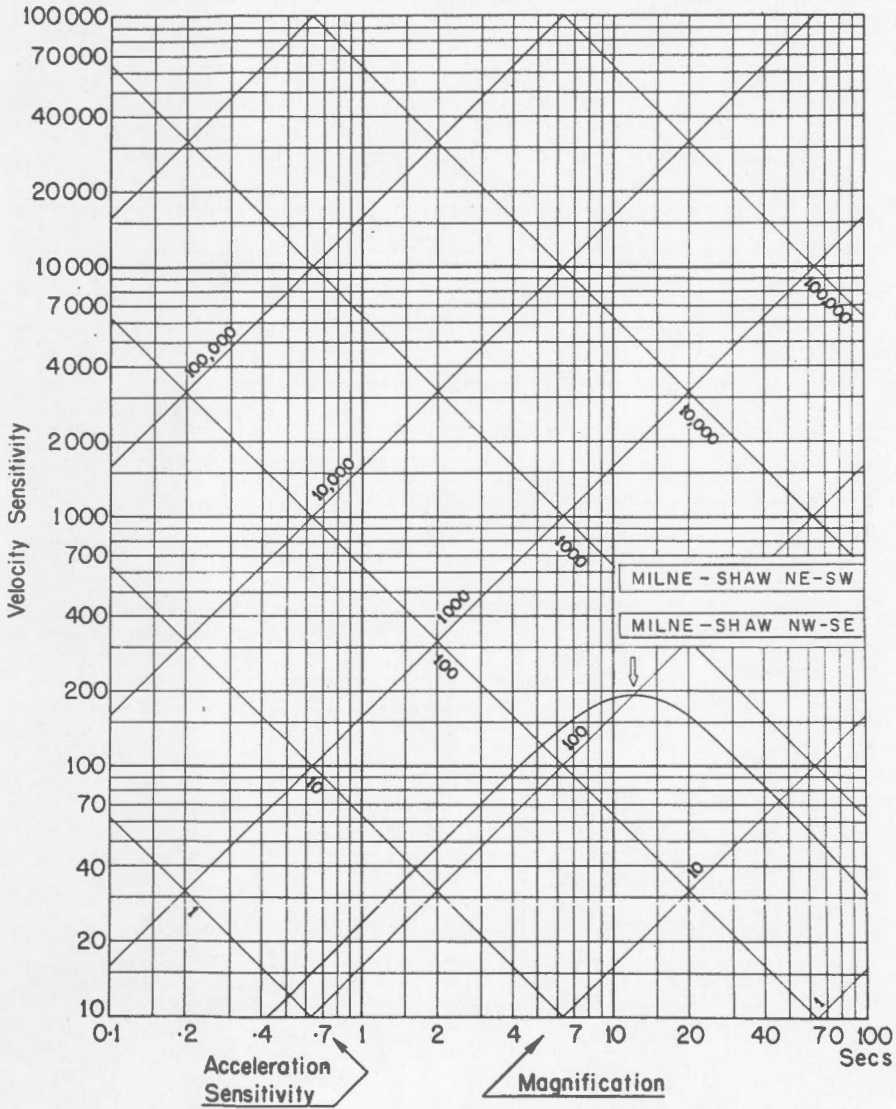
Willmore Z - August 18-58

Columbia LPZ - September 17-58

Columbia Z - September 13 -58

CALIBRATION CURVES

STATION : SASKATOON



$\phi = 52^{\circ} 08' N$ $\lambda = 106^{\circ} 38' W$ Altitude 515 m

Foundation : Clay and Sand

$T_s \uparrow$

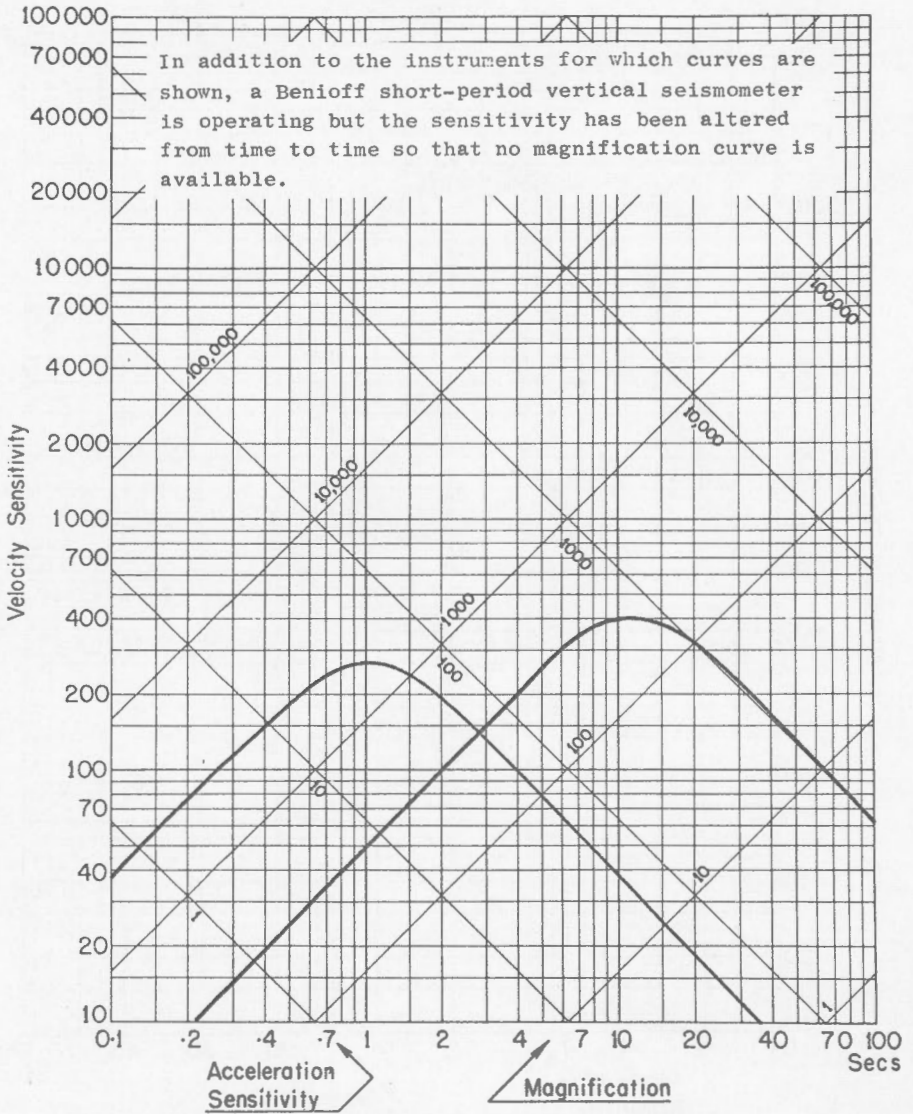
$T_g \uparrow$

Date of Calibration: -

Read from start of minute mark.

CALIBRATION CURVES

STATION: SEVEN FALLS



$\phi = 47^{\circ} 07.4'N$ $\lambda = 70^{\circ} 49.6'W$ Altitude 232M

Foundation : Precambrian basement rock

$T_s \uparrow$

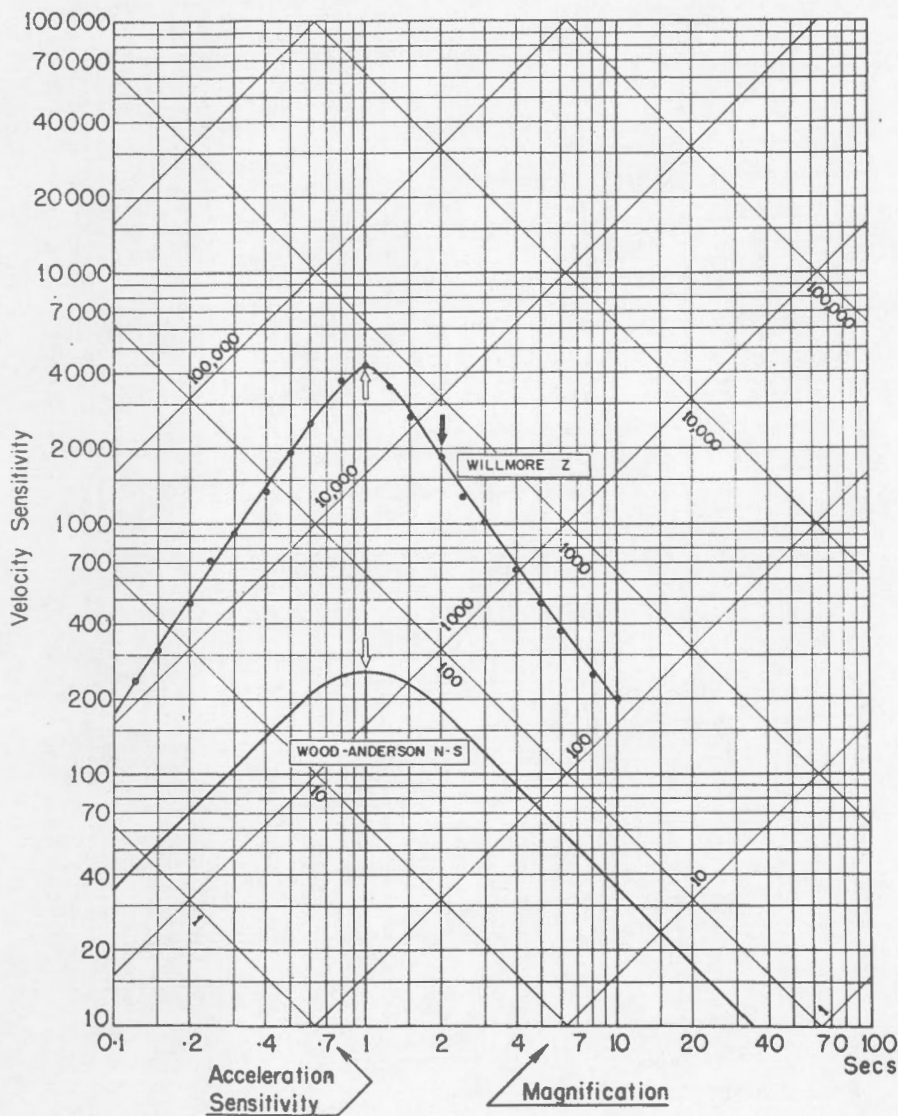
$T_g \uparrow$

Date of Calibration: Estimated

Read from end of minute mark.

CALIBRATION CURVES

STATION: SHAWINIGAN FALLS



$\phi = 46^{\circ} 33.1' N$ $\lambda = 72^{\circ} 45.8' W$ Altitude 60m

Foundation : Precambrian basement

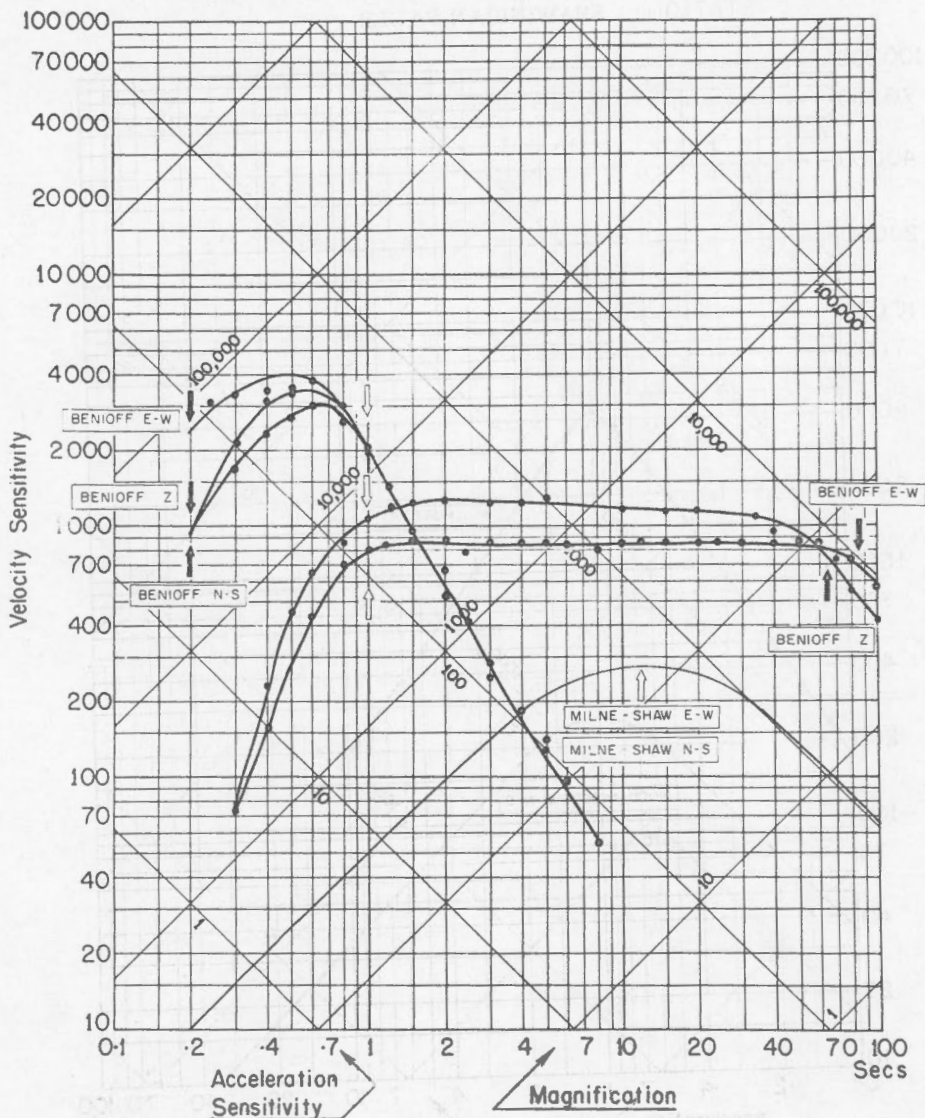
$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: December 10th, 1956.

CALIBRATION CURVES

STATION: VICTORIA



$\phi = 48^{\circ} 31' 10'' N$ $\lambda = 123^{\circ} 24' 55'' W$ Altitude 197M

Foundation : Quartz diorite

$T_s \uparrow$

$T_g \uparrow$

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	Ottawa iP 08 08 27 d Resolute iP 08 05 27 d P _c P 08 06 38.5	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 3 Canadian Arctic H = 12 43 23.9 h = 19 km Mag 2.5 Resolute eP _n 12 43 57.5 d iP _i 12 44 01.2 iS _n 12 44 22.9 iS ₁ 12 44 29.6 D = 232 km	JANUARY 4 Resolute iP 12 30 21.5 c	JANUARY 5 Resolute iP 05 01 15 c
JANUARY 4 Resolute eP 01 31 07	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 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 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 eP 23 33 05	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
JANUARY 4 Resolute iP 07 17 04 c	JANUARY 5 Resolute eP 00 47 20 iP 00 47 33 (c)	
JANUARY 4 U. S. C. G. S. 46 1/2N, 151 E Kurile Islands H = 07 56 27 h = 100 km		

SEISMOLOGICAL BULLETIN - 1959

Seven Falls eP' 10 05 44	JANUARY 6 Resolute eP 01 33 13	Resolute PP 12 11 41 Shawinigan Falls eP' 12 12 24
Shawinigan Falls eP' 10 05 42 PP 10 07 17	JANUARY 6 Resolute eP 04 16 44 c e 04 18 08	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 47.5d iP 12 12 48 c P _c P 12 15 11 Seven Falls eP 12 15 38 Shawinigan Falls eP 12 15 36
Victoria iP 09 59 51 c, S, W	JANUARY 6 Resolute eP 04 52 47 (d) e 04 56 39	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 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 6 Resolute eP 06 11 50	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 5 Resolute eP 12 47 28 (c)	JANUARY 6 Resolute eP 10 19 21	JANUARY 6 Resolute eP 15 37 40
JANUARY 5 Resolute eP 18 36 07	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 5 Resolute eP 20 03 31	JANUARY 6 U. S. C. G. S. 6 1/2S, 155E Solomon Islands H = 11 53 39 h = 150 km	
JANUARY 5 Resolute eP 22 15 28	JANUARY 6 U. S. C. G. S. 6 1/2S, 155E Solomon Islands H = 11 53 39 h = 150 km	
JANUARY 6 Resolute eP 00 33 21		
JANUARY 6 Resolute eP 00 54 09 (c)		

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

SEISMOLOGICAL BULLETIN - 1959

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 9 Resolute eP 11 36 48	JANUARY 10 Resolute eP 01 25 08
JANUARY 8 Resolute iP 23 57 04	JANUARY 9 Resolute eP 14 35 13 iP 14 35 15 c	JANUARY 10 Resolute eP 06 33 05
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 iP 15 28 44.8 c iP 15 28 45 d e 15 35 00	JANUARY 10 Resolute iP 07 35 28 d
JANUARY 9 Resolute eP 02 14 48 d	JANUARY 9 Resolute eP 18 19 19	JANUARY 10 Resolute eP 16 43 14
JANUARY 9 Resolute eP 04 56 46	JANUARY 9 Resolute eP 18 25 20	JANUARY 10 Resolute eP 21 58 01
JANUARY 9 Resolute eP 06 44 45	JANUARY 9 Resolute eP 19 45 52	JANUARY 10 Resolute eP 22 05 17
JANUARY 9 Resolute eP 06 44 45	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 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

SEISMOLOGICAL BULLETIN - 1959

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 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 Resolute eP 07 52 40
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. 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 _c P 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 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	
	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	

SEISMOLOGICAL BULLETIN - 1959

Shawinigan Falls	JANUARY 17	JANUARY 18
eP 16 57 59	Resolute	U. S. C. G. S.
PP 16 59 21	eP 20 42 33	52N, 166 1/2W
e 17 09 57	e 20 44 08	Fox Islands,
Victoria		Aleutian Islands
eP 16 52 13.5		H = 15 48 18
eS 16 53 31	JANUARY 17	Ottawa
D = 664 km	Resolute	eP 15 58 00
	eP 21 09 03	Resolute
JANUARY 17		iP 15 55 20.5 c
Resolute	JANUARY 18	eS 16 01 09
eP 03 04 31	Resolute	eL 16 04
	eP 01 16 12	Shawinigan Falls
	e 01 18 51	eP 15 58 05
JANUARY 17		
Resolute	JANUARY 18	JANUARY 18
eP 08 42 26	U. S. C. G. S.	44N, 127 1/2W
iP 08 42 31 c	57 1/2N, 35W	Off coast of Oregon
i 08 43 38	Atlantic Ocean	H = 17 15 03
	H = 07 37 20	Mag 4.1
JANUARY 17	Resolute	Alberni
U. S. C. G. S.	eP 07 43 13	eP 17 16 32
10 1/2N, 126E	eL 07 52	eS 17 17 35
Near north coast of	Shawinigan Falls	D = 600 km
Mindanao, Philippine	eP 07 42 49	Horseshoe Bay
Islands		eP 17 16 36
H = 09 24 35		eS 17 17 50
Resolute	JANUARY 18	D = 660 km
iP 09 37 45 c	Resolute	Victoria
iS 09 48 36	eP 14 14 43	iP 17 16 24.9
		eS 17 17 30.4
		D = 570 km
JANUARY 17	JANUARY 18	JANUARY 18
U. S. C. G. S.	U. S. C. G. S.	Resolute
45 1/2N, 153E	5S, 152 1/2E	eP 17 43 22
Kurile Islands	New Britain region	
H = 10 17 19	H = 14 41 06	
Resolute	Ottawa	
iP 10 26 30 c	eP' 15 00 04	JANUARY 18
	Resolute	U. S. C. G. S.
JANUARY 17	iP 14 54 59 c	5S, 152 1/2E
Resolute	PSPS 15 14 16	New Britain region
eP 15 52 05	Seven Falls	H = 19 25 45
	eP' 15 00 08	Ottawa
	Shawinigan Falls	eP' 19 44 44
	eP' 15 00 07	Resolute
		eP 19 39 37

DOMINION OBSERVATORIES

Seven Falls eP' 19 44 48	JANUARY 19 Resolute	Seven Falls eP' 17 05 39
Shawinigan Falls eP' 19 44 47	eP 10 25 15	SKP 17 09 13
	JANUARY 19	Shawinigan Falls eP' 17 05 43
JANUARY 18	Resolute	SKP 17 09 13
U. S. C. G. S. 19S, 178W	eP 13 04 27.5	
Fiji Islands H = 22 23 15 h = 450 km Mag 6 1/4	JANUARY 19	JANUARY 20
Alberni eP 22 34 55 (d)	Resolute	Resolute
Horseshoe Bay iP 22 34 59 c	eP 13 11 03	eP 20 51 17.5
i 22 36 43	JANUARY 19	JANUARY 21
Ottawa eP' 22 41 02	Resolute	Resolute
Resolute eP' 22 40 50	eP 19 07 27	eP 10 12 49
eSKS 22 46.5	JANUARY 19	JANUARY 21
eS 22 48.0	U. S. C. G. S. 36.1N, 118W	U. S. C. G. S. 19N, 120E
Seven Falls eP' 22 41 09	Inyo County, California H = 21 46 01	Near north coast of Luzon, Philippine Islands H = 11 08 10
Shawinigan Falls eP' 22 41 06	Mag 4 1/4 - 4 1/2	Resolute
Victoria iP 22 34 56 c	Resolute	iP 11 20 43 d
	eP 21 53 37	eS 11 31 06
	JANUARY 20	SS 11 36 33
	Resolute	L 11 43.2
	eP 11 25 46	
JANUARY 19	JANUARY 20	JANUARY 21
Resolute	U. S. C. G. S. 9S, 126E	Resolute
eP 04 29 15	Timor Island H = 16 46 11	eP 12 21.2
	Ottawa eP' 17 05 41	e 12 24.2
JANUARY 19	Resolute	JANUARY 21
U. S. C. G. S. 30N, 132E	eP 17 00 48	Resolute
South of Kyushu, Japan H = 08 12 46	eP' 17 04 42	eP 13 13 12
Resolute	eS 17 31 -	
iP 08 24 07.5 d	PS 17 15.1	JANUARY 21
	(PPS) 17 16.0	Resolute
JANUARY 19		eP 13 17.2
Resolute		
eP 10 10.8		

SEISMOLOGICAL BULLETIN - 1959

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 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 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 _c S 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 22 Resolute iP 22 08 10 e 22 15.0	JANUARY 23 Resolute iP 17 10 53 c i 17 14 08 d	
JANUARY 22 Resolute eP 23 59 23 (c) eP 23 59 23.5 d e 23 59 37	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 02 43 47	JANUARY 23 Resolute eP 19 55 06	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 23 Resolute eP 02 54.6 e 02 58.2	JANUARY 24 Resolute eP 02 04 05	
JANUARY 23 Resolute iP 07 10 06 c e 07 23.0 e 07 29 36 e 07 30 28	JANUARY 24 Resolute eP 04 15 22	JANUARY 24 Resolute iP 09 53.3 i 09 53.7
JANUARY 23 Resolute eP 07 26 25 e 07 28 30		
JANUARY 23 Resolute eP 09 04 18		

SEISMOLOGICAL BULLETIN - 1959

JANUARY 24	Ottawa	Shawinigan Falls
Resolute	iP 19 49 04 c	eP 20 02 23
eP 10 23 23	PP 19 50 26	e 20 03 30
e 10 27 36	PPP 19 50 41	PP 20 03 58
	P _c P 19 51 43	P _c P 20 04 46
	Resolute	
JANUARY 24	iP 19 52 28 c	JANUARY 24
Resolute	P _c P 19 53 15	Resolute
eP 12 38 06 (c)	eS 20 00 34	eP 22 12 31
	eL 20 07.1	
	Seven Falls	
JANUARY 24	eP 19 49 32	
U.S. C. G. S.	PP 19 51 07	JANUARY 25
5S, -152 1/2E	P _c P 19 51 53	Resolute
New Britain Region	SSS 19 58 15	eP 03 50.2
H = 15 34 01	Shawinigan Falls	
h = 100 km	iP 19 49 22 c	
Resolute	e 19 50 27	JANUARY 25
eP 15 47 44	PP 19 50 50	Resolute
Seven Falls	iP _c P 19 51 50	eP 04 19 21
eP' 15 53 06	Victoria	
Shawinigan Falls	eP 19 50 18	
eP' 15 53 05		JANUARY 25
		Resolute
		eP 06 49 24
	JANUARY 24	
JANUARY 24	U.S. C. G. S.	
U.S. C. G. S.	37 1/2N, 24 1/2W	
17 1/2S, 175W	Azores Islands	JANUARY 25
Tonga Islands	H = 19 55 14	Resolute
H = 15 51 47	Mag 6 1/4 - 6 1/2	eP 12 52 34
h = 100 km	Halifax	e 12 52 44
Resolute	eP 20 01 27.5 d	
eP 16 04 38	iP 20 01 28 c	
	iP _c P 20 04 28	JANUARY 25
	iS 20 06 26	Resolute
JANUARY 24	iSS 20 07 58	eP 15 36 (33)
Resolute	iL 20 09 40	
eP 18 47 06.5 c	Ottawa	
	eP 20 02 41	JANUARY 25
	PP 20 04 31	Resolute
JANUARY 24	P _c P 20 04 52	eP 16 27 33
U.S. C. G. S.	S 20 08 30	
15N, 92 1/2W	Resolute	
Mexico - Guatemala	eP 20 04 03.5 (d)	JANUARY 25
border	iP 20 04 04 c	Resolute
H = 19 42 20	iS 20 11 16	eP 17 56 47 c
Mag 6 1/4	Seven Falls	
Horseshoe Bay	eP 20 02 10	
eP 19 50 21	P _c P 20 04 42	
e 19 52 13	S 20 07 45	

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 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. 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
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 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 eP 10 28 07	JANUARY 26 Resolute iP 20 14 26 c	
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 21 10 36 JANUARY 26 Resolute eP 21 49 40 c	
JANUARY 26 Resolute eP 12 46 41		

SEISMOLOGICAL BULLETIN - 1959

Victoria eP 00 29 34	JANUARY 27 Resolute eP 11 02.0	JANUARY 27 U. S. C. G. S. 52N, 159 1/2E Near southeast coast of Kamchatka H = 23 32 52
JANUARY 27 Resolute iP 01 51 12 (c)	JANUARY 27 Resolute iP 11 25 40.5 (d)	Ottawa eP 23 44 19 Resolute eP 23 41 08 c
JANUARY 27 U. S. C. G. S. 71 1/2N, 2W Jan' Mayen Island region H = 03 35 29	JANUARY 27 Resolute eP 12 47 40.5 c	Shawinigan Falls eP 23 44 20
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	JANUARY 27 Resolute eP 16 00 56	JANUARY 28 U. S. C. G. S. 38 1/2N, 142 1/2E Near coast of Honshu, Japan H = 01 21 16
Seven Falls eP 03 43 06	JANUARY 27 Resolute eP 20 02 12	Resolute iP 01 31 31 c
Shawinigan Falls eP 03 43 17 c	JANUARY 27 U. S. C. G. S. 4N, 126E Celebes Sea H = 21 05 29 h = 200 km	JANUARY 28 Resolute eP 02 01 58
JANUARY 27 Ottawa eP 06 44 55 Resolute eP 06 45 00	Ottawa eP' 21 24 16 Resolute eP 21 18 45	JANUARY 28 Resolute eP 02 06 29.5 d
Seven Falls eP 06 44 23	Seven Falls eP' 21 24 16	JANUARY 28 Resolute eP 06 34 13
Shawinigan Falls eP 06 44 34 d	Shawinigan Falls eP' 21 24 16	
JANUARY 27 Resolute eP 06 52 34	JANUARY 27 Resolute eP 22 44 03	JANUARY 28 Resolute eP 06 47 33.5 d
JANUARY 27 Resolute eP 06 58 24		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
Lg 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

SEISMOLOGICAL BULLETIN - 1959

JANUARY 29
 Resolute
 eP 21 35 42

JANUARY 29
 U. S. C. G. S.
 Southern 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
 eScS 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
 iL_g 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	JANUARY 30	Horseshoe Bay
Resolute	U. S. C. G. S.	eP 20 49 10
iP 13 51 31.5 c	31S, 179W	Ottawa
	Kermadec Islands	eP 20 51 33 d
	H = 18 09 02	Resolute
JANUARY 30	Halifax	eP 20 48 35 (c)
Resolute	ePP 18 30 43 d	iP 20 48 35.5 d
eP 14 00 05	iPP 18 30 44 c	PPP 20 52.0
	Horseshoe Bay	eS 20 56 24
	eP 18 22 28	eSS 21 00.0
JANUARY 30	Ottawa	Seven Falls
Resolute	eP' 18 27 52 d	eP 20 51 33
eP 14 33.7	PP 18 29 31	Shawinigan Falls
e 14 34 10	SKP 18 30 39	eP 20 51 34
e 14 35 31	Resolute	Victoria
	iP' 18 27 45 d	eP 20 49 11
	ePP 18 29 10	
	e 18 30 20	JANUARY 30
JANUARY 30	e 18 30 25	Resolute
Resolute	ePPP 18 31.4	eP 22 10 51
eP 15 19 18	e 18 33 54	
e 15 19 28	iPKKP 18 38 06 c	
	e 18 40.5	
	e 18 41.5	JANUARY 30
JANUARY 30	eSS 18 45 05	U. S. C. G. S.
U. S. C. G. S.	e 18 48.4	44N, 144E
26 1/2S, 71W	Seven Falls	Hokkaido, Japan
Near coast of	eP' 18 27 59 d	H = 22 16 47
Chile	PP 18 30 22	Mag 6 1/4
H = 16 15 58	SKP 18 30 47	Alberni
h = 100 km	PKS 18 31 37	eP 22 26 53
Halifax	Shawinigan Falls	Halifax
iP 16 27 13 c	eP' 18 27 56	e(S) 22 39.9
eS 16 37 05	PP 18 29 48	eL 22 53.8
ePPS 16 36 31	SKP 18 30 47	Horseshoe Bay
Ottawa	Victoria	eP 22 26 57 (c)
eP 16 27 15	eP 18 22 25	Ottawa
Resolute		eP 22 29 23
eP 16 29 46		Resolute
e 16 32 48		eP 22 26 24
SKS 16 40.2	JANUARY 30	eS 22 34 04
eS 16 41.2	U. S. C. G. S.	Seven Falls
PS 16 43 04	44N, 144E	eP 22 29 24
Seven Falls	Hokkaido, Japan	Shawinigan Falls
eP 16 27 25 d	H = 20 38 58	eP 22 29 25
Shawinigan Falls	Mag 5 3/4 - 6	Victoria
eP 16 27 22 d	Halifax	eP 22 27 01 c
i 16 27 37	e(S) 21 02 46	
	eL 21 20.1	

SEISMOLOGICAL BULLETIN - 1959

JANUARY 30 Resolute eP 22 45 11 e 22 45 28 e 22 50 14	JANUARY 31 Resolute eP 21 32 58	FEBRUARY 1 Resolute eP 07 49 22
JANUARY 31 Resolute eP 01 58 03	JANUARY 31 Resolute eP 23 08 13.5	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
JANUARY 31 Resolute eP 03 58 17	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. 17 1/2S, 178W Fiji Islands H = 08 39 18 Resolute eP 08 54 13
JANUARY 31 Resolute eP 06 03 50	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 Resolute eP 09 14 21
JANUARY 31 Resolute eP 11 14 00	JANUARY 31 Resolute eP 12 05 24	FEBRUARY 1 Resolute eP 09 14 21
JANUARY 31 Resolute eP 16 05 56	JANUARY 31 Resolute eP 18 25 56	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
JANUARY 31 Resolute eP 20 04 15	FEBRUARY 1 U. S. C. G. S. 54N, 165W Fox Islands, Aleutian Islands H = 06 30 20 Resolute eP 06 37 03 (c)	

DOMINION OBSERVATORIES

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 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 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 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 3 Resolute eP 10 44 54 e 10 45 49 FEBRUARY 3 Resolute eP 14 31 58	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 2 Resolute eP 12 13 00	FEBRUARY 3 Resolute eP 17 22 34	FEBRUARY 4 Resolute eP 05 49 17
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 3 Resolute iP 18 45 48.5 c FEBRUARY 3 Resolute eP 20 55 22.5 iP 20 55 29 c	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

SEISMOLOGICAL BULLETIN - 1959

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

P₁ 19 07 08
S₁ 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	FEBRUARY 7	Resolute
U.S.C.G.S.	U.S.C.G.S.	eP 01 09 40 d
16N, 146E	38N, 21E	iP 01 09 41 c
Mariana Islands	Near west coast	eS 01 15 26
H = 10 11 39	of Greece	eL 01 17 34
Alberni	H = 20 08 17	e 01 20 23
iP 10 23 38 c	Resolute	Seven Falls
Horseshoe Bay	eP 20 18 30	eP 01 08 20 c
iP 10 23 44 d	Seven Falls	
Resolute	eP 20 18 59	
iP 10 24 01.5 (d)		FEBRUARY 8
iP 10 24 02 c		Resolute
		eP 05 55 41
	FEBRUARY 8	
	Resolute	
	eP 00 00 31	
FEBRUARY 7		FEBRUARY 8
U.S.C.G.S.		U.S.C.G.S.
13N, 45W	FEBRUARY 8	23S, 180
Atlantic Ocean	Resolute	South of Fiji Islands
H = 10 52 59	eP 00 06 18	H = 05 46 15
Resolute	e 00 31.7	h = 600 km
eP 11 03 57 c	e 00 33.7	Resolute
		eP' 06 03 44
		pPP 06 06 29
FEBRUARY 7		Seven Falls
Resolute	FEBRUARY 8	eP' 06 04 04
eP 12 47 39	Resolute	
	eP 00 28 48	
FEBRUARY 7		FEBRUARY 8
Ottawa	FEBRUARY 8	Resolute
eP 15 02 04	U.S.C.G.S.	eP 07 03 41
Resolute	49N, 28 1/2W	
eP 15 05 29	North Atlantic Ocean	
	H = 01 02 26	FEBRUARY 8
	Mag 6 1/4 - 6 1/2	Resolute
FEBRUARY 7	Halifax	eP 07 46 17
U.S.C.G.S.	iP 01 07 47 c	e 07 49 09
6 1/2S, 113E	i 01 08 03	e 07 50.3
Near north coast of	iS 01 12 06	
Java	iSSS 01 12 36	
H = 16 45 35	L 01 13.5	FEBRUARY 8
h = 600 km	Ottawa	Resolute
Resolute	eP 01 08 54 c	eP 13 04 46
eP' 17 03 02	PPP 01 10 08	e 13 06 24
	P _c P 01 11 42	
	S 01 13 49	
		FEBRUARY 8
		Resolute
		eP 14 13 44

DOMINION OBSERVATORIES

FEBRUARY 8	Alberni	FEBRUARY 9
Resolute	eP 04 49 16	Resolute
eP 15 02.7	Horseshoe Bay	eP 21 43 43 c
e 15 06.7	eP 04 49 26	
	Ottawa	FEBRUARY 9
FEBRUARY 8	eP 04 53 04	Resolute
U.S.C.G.S.	Resolute	eP 23 00 28
32S, 176 1/2W	iP 04 50 16 c	
Kermadec Islands	iPP 04 52 00	FEBRUARY 11
H = 15 54 06	iS 04 56 31	U.S.C.G.S.
h = 100 km	iL 04 59.0	Near coast of Oaxaca,
Resolute	Seven Falls	Mexico
e 16 10 07	eP 04 53 13	H = 01 41 20
P 16 12 46	Victoria	Ottawa
	eP 04 49 27	eP 01 48 16
		Resolute
FEBRUARY 8	FEBRUARY 9	eP 01 51 22
Ottawa	Resolute	
eP 16 06 52	eP 09 30 17	FEBRUARY 11
	e 09 32 22	Resolute
		eP 02 17 22.5
FEBRUARY 8	FEBRUARY 9	
Resolute	Resolute	FEBRUARY 11
eP 19 39 13	eP 09 38 38 (d)	U.S.C.G.S.
e 19 43 55	e 09 38 44	9N, 127E
		Near east coast of
FEBRUARY 8	FEBRUARY 9	Mindanao, Philippine
Resolute	Resolute	Islands
eP 20 41 22	eP 17 28 12	H = 03 43 38
		Resolute
FEBRUARY 8	FEBRUARY 9	iP 03 56 50.5 c
Resolute	U.S.C.G.S.	iPP 04 00 55.5 (d)
eP 20 51 55.5	5S, 154E	eS 04 08.0
	Solomon Islands region	eL 04 23.6
	H = 21 13 18	
	h = 100 km	FEBRUARY 11
FEBRUARY 9	Ottawa	Resolute
Resolute	eP' 21 32 08	eP 04 16 50
eP 01 21 32.5	Resolute	
e 01 22 48	e 21 27.0	FEBRUARY 11
	eP 21 27 28 (c)	Resolute
FEBRUARY 9	e 21 39.5	eP 09 59.9
U.S.C.G.S.	Seven Falls	
50 1/2N, 177 1/2W	eP' 21 32 12	
Andreanof Islands,		
Aleutian Islands		
H = 04 42 33		

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

DOMINION OBSERVATORIES

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

SEISMOLOGICAL BULLETIN - 1959

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	Resolute	FEBRUARY 18
U. S. C. G. S.	eP 15 56 40	U. S. C. G. S.
51 1/2N, 171W	P _C P 15 59 41	24S, 179 1/2W
Fox Islands,		South of Fiji Islands
Aleutian Islands		H = 01 57 21
H = 12 03 05		h = 500 km
Mag 6 - 6 1/4	FEBRUARY 17	Ottawa
Halifax	Resolute	eP' 02 15 12
iP 12 13 57	eP 16 03 17	Resolute
eS 12 22 48		eP' 02 15 02
eL 12 33.8		
Horseshoe Bay	FEBRUARY 17	
eP 12 09 18 (d)	U. S. C. G. S.	FEBRUARY 18
e 12 12 19	65 1/2N, 126W	Resolute
Ottawa	Northwestern Canada	eP 03 02 33
eP 12 13 09	H = 20 11 50	e 03 05 58
Resolute	Ottawa	
eP 12 10 23.5 d	e 20 26 20	FEBRUARY 18
PPP 12 12 18	eL 20 29 02	U. S. C. G. S.
iS 12 16 20	Resolute	42N, 142 1/2E
iL 12 18 56	iP 20 15 06 c	Near south coast of
Seven Falls	iS 20 17 31	Hokkaido, Japan
eP 12 13 17	iL 20 19 06	H = 12 05 22
Shawinigan Falls	Saskatoon	Resolute
eP 12 13 13	eP 20 20 31	iP 12 15 13 (d)
Victoria	Seven Falls	
eP 12 09 23 (d)	e 20 27 58	
	eL 20 29 30	
	Shawinigan Falls	
	e 20 26 12	FEBRUARY 18
	L 20 29 11	U. S. C. G. S.
FEBRUARY 17		14N, 144E
U. S. C. G. S.		Mariana Islands
32 1/2N, 140 1/2E	FEBRUARY 17	H = 17 29 07
South of Honshu, Japan	49°04'N, 124°06'W	h = 250 km
H = 12 49 20	West of Nanaimo	Resolute
Resolute	H = 20 25 22	eP 17 41 19
iP 13 00 15.5 c	Mag 2.2	eS 17 51.7
	Alberni	
	iP 20 25 35.3	FEBRUARY 18
FEBRUARY 17	iS 20 25 45.0	49 1/2N, 129 1/2W
Resolute	D = 56 km	Off west coast of
eP 14 07 (28)	Horseshoe Bay	Victoria Island
	iP 20 25 37.1	H = 23 37 21
	e 20 25 45.5	Mag 3.6
	D = 68 km	Alberni
FEBRUARY 17	Victoria	eP 23 38 09.1
U. S. C. G. S.	eP 20 25 39.0	e 23 38 45
56N, 158 1/2W	eS 20 25 51.4	D = 300 km
Alaska Peninsula	D = 80 km	
H = 15 50 29		

SEISMOLOGICAL BULLETIN - 1959

Horseshoe Bay eP 23 38 26 D = 442 km	FEBRUARY 20 Resolute eP 00 59 51	FEBRUARY 20 Resolute eP 10 45 43
Victoria eP 23 38 26.2 D = 440 km	FEBRUARY 20 Resolute eP 01 10 (35) e 01 19 30 e 01 24 49	FEBRUARY 20 Resolute eP 11 20 39
FEBRUARY 18 Resolute eP 23 43.5 e 23 50.3 e 23 52 52 e 23 54 44	FEBRUARY 20 Resolute eP 01 42 59	FEBRUARY 20 U. S. C. G. S. 15 1/2N, 91W Guatemala H = 18 16 22 h = 150 km Mag 6 1/2
FEBRUARY 19 Resolute eP 07 18 59 e 07 25.0	FEBRUARY 20 Resolute eP 03 24 15	Halifax eS _c S 18 33.9 Horseshoe Bay iP 18 24 12 d Ottawa eP 18 22 43 c
FEBRUARY 19 Resolute iP 07 47 10 c	FEBRUARY 20 U. S. C. G. S. 30 1/2S, 71W Central Chile H = 04 12 54 h = 100 km	Resolute eP 18 26 13 c pP 18 26 44 eS 18 34 20 eSS 18 38 27 esSS 18 39 00
FEBRUARY 19 Resolute eP 10 00 51.5	Halifax iP 04 24 34 c Ottawa iP 04 24 35 c	Seven Falls eP 18 23 10 Shawinigan Falls eP 18 23 01
FEBRUARY 19 Resolute eP 12 48 12 e 12 56.4 e 12 57.0	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	Victoria eP 18 24 07 c.
FEBRUARY 19 Resolute eP 19 12 41 (d)		FEBRUARY 20 Resolute eP 23 05 25
FEBRUARY 19 Resolute iP 21 18 16 d	FEBRUARY 20 Resolute eP 06 11 00	FEBRUARY 21 U. S. C. G. S. 14N, 120 1/2E Luzon Island, Philippine Islands H = 08 27' 15

DOMINION OBSERVATORIES

Resolute eP 08 40 10.5 c iP 08 40 11 d	FEBRUARY 22 Resolute eP 09 05 07.5	FEBRUARY 22 U. S. C. G. S. 44 1/2N, 149E Kurile Islands H = 23 56 01 Resolute eP 24 05 28
FEBRUARY 21 Resolute eP 13 18 (14)	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 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 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 21 Resolute eP 20 20 46	FEBRUARY 22 Resolute eP 12 04 04 iP 12 04 08 d	
FEBRUARY 22 Resolute e 00 27 36 e 00 29 50	FEBRUARY 22 Resolute eP 18 31 02 e 18 32 55	FEBRUARY 23 Resolute eP 06 02 30 eP 06 02 44
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 Resolute eP 20 56 27	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
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 21 45 39 c	

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Shawinigan Falls eP 07 56 47	FEBRUARY 23 Resolute eP 12 39 15	FEBRUARY 23 Resolute eP 22 31 23
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 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 _c P 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 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 23 Resolute eP 11 35 17	FEBRUARY 23 Resolute eP 19 29 46.5 d iP 19 29 47 c	
FEBRUARY 23 Resolute eP 11 54 37.5 e 11 57 35	FEBRUARY 23 Resolute eP 20 49 (54) e 21 07 - e 21 12 25	FEBRUARY 24 Resolute eP 09 31 55 e 09 32 20 FEBRUARY 24 Resolute eP 11 17 11 e 11 17 20
FEBRUARY 23 U. S. C. G. S. 45N, 149E Kurile Islands H = 11 53 28 Resolute eP 12 02 53.5 d	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 24 Resolute eP 09 31 55 e 09 32 20 FEBRUARY 24 Resolute eP 11 17 11 e 11 17 20
FEBRUARY 23 Resolute eP 12 22 42	FEBRUARY 23 Resolute iP 21 09 18 i 21 10 11	

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 PcP 11 21 22 eL 11 40 20	FEBRUARY 24 Resolute eP 21 27 22 e 21 30 (23)	FEBRUARY 25 Resolute iP 11 55 14.5 d
FEBRUARY 24 Resolute eP 11 20 01 c iP 11 20 01.5 d PcP 11 21 22 eL 11 40 20	FEBRUARY 24 Resolute eP 22 35 22	FEBRUARY 25 Resolute eP 13 18 58
FEBRUARY 24 Resolute eP 11 50 28 e 11 50 38 e 11 54 12	FEBRUARY 25 Resolute eP 02 15 25 e 02 20 03	FEBRUARY 25 Resolute eP 16 27 07
FEBRUARY 24 Resolute eP 12 32 33	FEBRUARY 25 Resolute eP 03 37 35	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 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 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 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 24 Resolute eP 15 30 48 i 15 31 10 i 15 31 25 i 15 31 42	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 26 Resolute eP 01 19 23
FEBRUARY 24 Resolute eP 17 51 12 i 17 51 16	FEBRUARY 26 Resolute eP 01 38 30	

SEISMOLOGICAL BULLETIN - 1959

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 iP 10 46 35	FEBRUARY 27 Resolute eP 16 39 31
FEBRUARY 26 Resolute eP 04 06 15 e 04 08 00.5 e 04 14 06	FEBRUARY 26 Resolute eP 13 05 39	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 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 Resolute eP 21 28 13	FEBRUARY 27 Resolute eP 02 59 27
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 27 Resolute eP 06 20 50 e 06 30 -	FEBRUARY 27 Horseshoe Bay iP 20 54 46 c Victoria iP 20 54 41 c
FEBRUARY 26 Resolute eP 09 45 08	FEBRUARY 27 Resolute eP 13 23 50	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 _C S 21 18 36 SS 21 22 28 eL 21 27 -
FEBRUARY 26 Resolute eP 16 25 29	FEBRUARY 27 Resolute eP 23 13 33	

DOMINION OBSERVATORIES

FEBRUARY 28	Shawinigan Falls	MARCH 1
U.S.C.G.S.	eP' 12 04 11	U.S.C.G.S.
53N, 168 1/2W		1/2S, 134 1/2E
Fox Islands,		Near north coast of
Aleutian Islands	MARCH 1	New Guinea
H = 01 32 22	U.S.C.G.S.	H = 16 49 13
Halifax	74 1/2N, 9E	h = 100 km
eS 01 51 22	Arctic Ocean	Mag 7
eL 02 04.7	H = 00 31 20	Halifax
Ottawa	Halifax	eP' 17 08 33
eP 01 42 10 c	eP 00 39 20	ePP 17 11 01
Resolute	e 00 41 05	PKS 17 12 00
eP 01 39 24 c	iS 00 45 45	L 17 27.3
PcP 01 41 52	L 00 51.2	Ottawa
eS 01 45 06	Ottawa	eP' 17 08 16
eL 01 47.3	eP 00 39 40	PP 17 10 16
Seven Falls	Resolute	Resolute
eP 01 42 19	eP 00 36 36	eP 17 02 57
Shawinigan Falls	iS 00 41 02	iP 17 03 06 d
eP 01 42 15	iL 00 43.0	e 17 06 21
	Seven Falls	PP 17 07 10
	eP 00 39 12	SKKS 17 13 45
	S 00 45 43	sS 17 15 06
FEBRUARY 28	Shawinigan Falls	PS 17 16.2
U.S.C.G.S.	eP 00 39 28	SS 17 21 20
3S, 129 1/2E		Seven Falls
Ceram Island region		eP' 17 08 18
H = 03 53 51		Shawinigan Falls
Resolute	MARCH 1	eP' 17 08 17
eP 04 07 58	Resolute	
	eP 01 50 40	
	e 01 57 29	
	e 01 59 22	
FEBRUARY 28		MARCH 1
Resolute		Resolute
eP 05 07 11		eP 17 19 (10)
		e 17 23 30
	MARCH 1	
	Resolute	
	eP 13 12 31	
FEBRUARY 28		MARCH 1
U.S.C.G.S.		Resolute
About 500 miles west		eP 19 20 45
of Macquarie Island	MARCH 1	
H = 11 44 05	Resolute	
Ottawa	eP 13 51 41	
eP' 12 04 01	e 13 54 12	
Resolute		
eP' 12 03 54		
PSPS 12 27.5		
eL 12 45 -		
Seven Falls		
eP' 12 04 07		
		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

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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
 Alborni
 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
 iP₁ 23 21 19.8
 iS₁ 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		MARCH 4		Ottawa
U. S. C. G. S.		U. S. C. G. S.		eP 00 26 21
37N, 122W		51 1/2N, 159 1/2E		Resolute
California aftershock		Off southeast coast of		iP 00 23 04.5 c
H = 07 23 44		Kamchatka		eS 00 29 20
Mag 4.5		H = 00 52 49		eL 00 32.5
Resolute		Ottawa		Seven Falls
eP 07 31.3		eP 01 04 16		eP 00 26 24 c
		Resolute		Shawinigan Falls
		eP 01 01 05 c		eP 00 26 24
		eL 01 18		Victoria
MARCH 3		Shawinigan Falls		eP 00 23 32
Canadian Arctic		eP 01 04 17		
H = 10 08 36				
Mag 4.1				
Resolute				
iP _n 10 10 02		MARCH 4		MARCH 5
i 10 10 09		U. S. C. G. S.		47.7N, 121.6W
e 10 10 58		12N, 93E		East of Seattle
iS _n 10 11 04		Andaman Islands		H = 02 19 55
i 10 11 16		H = 19 57 57		Mag 2.4
D = 640 km (?)		Resolute		Horseshoe Bay
		eP 20 11 14.5 (d)		eP 02 20 28.1
		iP 20 11 15 c		eS 02 20 55.6
				D = 220 km
				Victoria
MARCH 3				eP 02 20 20.3
Resolute				D = 161 km
eP 11 17 13		MARCH 4		
e 11 17 15		Resolute		MARCH 5
		eP 22 59 02		Resolute
		e 22 59 09		eP 03 09 50
MARCH 3				
Resolute		MARCH 4		MARCH 5
eP 12 10 05		U. S. C. G. S.		U. S. C. G. S.
		38N, 133E		44 1/2N, 149E
		Near west coast		Kurile Islands
MARCH 3		of Honshu, Japan		H = 05 04 10
U. S. C. G. S.		H = 23 00 30		Resolute
37N, 122W		Resolute		eP 05 13 33 d
California aftershock		iP 23 10 55 d		iP 05 13 33.5 c
H = 18 32 10				e 05 14 53
Mag 4.1				
Resolute				
eP 18 39 50		MARCH 5		
(PP) 18 41 40		U. S. C. G. S.		
		54N, 160E		
		Near east coast of		
		Kamchatka		
		H = 00 15 08		
		Horseshoe Bay		
		eP 00 23 28		

SEISMOLOGICAL BULLETIN - 1959

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 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 6 Resolute e(P) 12 17 45 (c)
MARCH 5 Resolute eP 07 31.6	MARCH 5 Resolute eP 20 59 39	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
MARCH 5 Resolute eP 12 41 31 e 12 42 40	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	Victoria eP 19 16 46.7 S 19 17 51.7 D = 528 km
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 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 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 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 6 Resolute e(P) 04 00 44 (c) e 04 00 53	MARCH 6 Resolute e 20 22 19 e(P) 20 24 (15) e 20 32 59 e 20 56 24 e 21 02 06
	MARCH 6 Resolute e(P) 04 31 41 e 04 34 01	

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 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 Resolute eP 21 30 27 e 21 36 38 MARCH 7 Resolute eP 23 01 03
MARCH 6 Resolute e(P) 21 03 23	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 _C P 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 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 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 7 Resolute e(P) 19 27 26 e 19 31 01	MARCH 8 Resolute eP 03 14 35
MARCH 6 Horseshoe Bay eP 21 25 32.1 Victoria eP 21 25 55.8 Local shock	MARCH 7 Resolute e(P) 20 13.1	MARCH 8 Resolute eP 03 35 45
MARCH 6 Resolute e(P) 21 32 28	MARCH 7 Resolute e(P) 20 59 (18) i(P) 20 59 28	MARCH 8 Resolute eP 04 47 26
MARCH 6 Resolute e(P) 23 08 54 (d)	MARCH 7 Resolute e(P) 01 45 50 e 01 47 07	
MARCH 7 Resolute e(P) 01 45 50 e 01 47 07		

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MARCH 8 Resolute eP 05 08 58 e 05 10 39	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 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 8 Resolute eP 05 44.5 e 05 48.4	MARCH 9 Resolute eP 08 14.0	MARCH 9 Resolute eP 21 54 37
MARCH 8 Resolute eP 07 05 58 iP 07 06 48 d	MARCH 9 Resolute eP 09 17 22 e 09 20 (35)	MARCH 9 Resolute eP 21 54 37
MARCH 8 U. S. C. G. S. 40N, 20E Near coast of Albania H = 11 17 09 Resolute eP 11 27 03	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 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 8 Resolute eP 14 59 44	MARCH 9 Resolute eP 12 58 20	MARCH 9 Resolute eP 13 18 50
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 9 Resolute eP 13 18 50	MARCH 9 Resolute eP 22 41 08
MARCH 8 Resolute eP 22 35 19 e 22 38 04	MARCH 9 Resolute eP 14 03.5	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 07 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 15 03 23 c

MARCH 13

Resolute
eP 13 32 37

MARCH 12

Resolute
eP 05 44 26

MARCH 12

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

MARCH 13

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

MARCH 12

Resolute
eP 06 48 56

MARCH 12

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

MARCH 13

Canadian Arctic
H = 16 45 43.8
Mag 2.3
Resolute
P₁ 16 46 02
S₁ 16 46 15.8
D = 113 km

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 13

Resolute
iP 00 57 00 d
iP 01 01 07 c

MARCH 12

Resolute
eP 09 39 32

MARCH 13

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

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 12

Resolute
iP 11 20 43
e 11 21 52

MARCH 13

Resolute
e(P) 06 14.4

MARCH 13

Resolute
eP 21 16 48

MARCH 12

Resolute
eP 12 43 29
e 12 43 39

MARCH 13

Resolute
e(P) 09 31 10.5
e 09 55.5

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

MARCH 12

Resolute
eP 13 28 52

MARCH 13

Resolute
eP 10 38 50.5
e 11 05 -

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 26.5d
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

SEISMOLOGICAL BULLETIN - 1959

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
eP₁ 17 33 55.0
iS_n 17 34 13.0
iS₁ 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
iP₁ 02 09 07.5
i 02 09 13.5
iS₁ 02 09 23
D = 127 km.

DOMINION OBSERVATORIES

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

SEISMOLOGICAL BULLETIN - 1959

Shawinigan Falls eP 08 31 41 i 08 32 28	MARCH 19 Resolute eP 16 45 21	MARCH 20 45N, 126W Off coast of Oregon H = 15 41 58 (Victoria) Mag 3.7
MARCH 19 Resolute eP 09 41 12	MARCH 19 Resolute eP 23 06.2	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
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 _c S 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 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	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 19 Resolute e 13 02.5 e 13 08.3 e 13 24.3	MARCH 20 Resolute eP 03 31 46 d	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 19 U. S. C. G. S. 35N, 142E Off coast of Honshu, Japan H = 14 14 53 Resolute iP 14 25 31 d	MARCH 20 Banff eP 08 35 13	MARCH 20 Resolute eP 17 55 50 c iP 17 55 51 d
	MARCH 20 Resolute eP 15 28 53	

DOMINION OBSERVATORIES

MARCH 20	MARCH 21	MARCH 22
U. S. C. G. S.	Resolute	Resolute
10S, 117E	eP 20 32 28	eP 14 23 27
Sumbawa Island		e 14 28 06
region		
H = 23 53 24	MARCH 21	MARCH 22
Halifax	48.6N, 122.7W	Resolute
iP' 24 13 06 c	North Puget Sound	eP 16 09 18
Ottawa	H = 20 38 55	
eP' 24 12 57	Mag 3 1/4	
Resolute	Alberni	MARCH 22
eP' 24 12 03	iP 20 39 24.0	U. S. C. G. S.
e 24 17 37.5	eS 20 39 36.7	46 1/2N, 3 1/2W
Seven Falls	D = 198 km	Near west coast of
eP' 24 12 57	Horseshoe Bay	France
Shawinigan Falls	iP 20 39 18.5	H = 22 36 38
eP' 24 12 59	eS 20 39 36.6	Resolute
	D = 144 km	eP 22 45 02
	Victoria	
	iP 20 39 07.4	
	iS 20 39 16.4	
	D = 74 km	MARCH 23
MARCH 21		Resolute
U. S. C. G. S.		eP 05 09 32
19S, 178W		
Fiji Islands	MARCH 22	
H = 04 27 21	Resolute	
h = 550 km	eP 00 08 04	
Resolute		MARCH 23
eP' 04 44 43		U. S. C. G. S.
Seven Falls		40N, 118W
eP' 04 45 02		Western Nevada
Shawinigan Falls	MARCH 22	H = 07 10 22
eP' 04 44 59 c	Resolute	Mag 6 1/4 - 6 1/2
	eP 03 33 37	Alberni
		eP 07 13 08
MARCH 21		Halifax
Resolute	MARCH 22	ePP 07 (19.7)
eP 04 56 09	Canadian Arctic	eS 07 (24) (14)
	H = 08 15 18.5	eSS 07 (27) (04)
	h = 21 km	eL 07 (30.4)
	Mag 2.8	Horseshoe Bay
MARCH 21	Resolute	eP 07 12 57
U. S. C. G. S.	eP _n 08 15 54.5	e 07 16 01
53 1/2N, 165W	iP ₁ 08 15 59.0	Resolute
Unimak Island region	iS _n 08 16 21	eP 07 17 32
H = 19 37 08	i 08 16 27.5	PP 07 19 04
Resolute	S ₁ 08 16 30.0	P _c P 07 19 56
eP 19 43 54	D = 254 km	eS 07 23 19
eS 19 49.4		eL 07 25 08
eL 19 51.3		

SEISMOLOGICAL BULLETIN - 1959

Saskatoon iP 07 14 00 iS 07 17 04 i 07 18 11	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 16 27 20
Seven Falls eP 07 17 14 S 07 22 44 G 07 24 38	MARCH 24 U. S. C. G. S. 34N, 142E Off coast of Honshu, Japan H = 17 18 24	MARCH 24 Resolute iP 17 29 09.5 c eS 17 37.9 SS 17 42.1 eL 17 45.1
Shawinigan Falls eP 07 17 03	Victoria eP 07 12 45 e 07 14 56	Victoria eP 17 29 29
MARCH 23 Resolute eP 19 47 45 e 19 51.0 e 19 28.5	MARCH 24 Resolute eP 05 36 58	MARCH 24 Resolute iP 20 50 00 d
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 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 eP 21 44.6
MARCH 24 Resolute iP 01 44 37 iP 01 44 37.5 c	MARCH 24 Resolute eP 12 41 26	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
MARCH 24 Resolute eP 05 01.0	MARCH 24 Resolute eP 15 56 25	
	MARCH 24 Resolute eP 16 04 23	

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 Resolute eP 12 35 10 e 12 38 45	MARCH 26 Resolute iP 05 00 19 d e 05 05.7 e 05 09.1 e 05 14.7
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 15 16 46 Shawinigan Falls eP 15 16 54	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 25 Resolute eP 06 52 21	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 Horseshoe Bay eP 08 18 38
MARCH 25 U. S. C. G. S. New Hebrides Islands H = 07 02 12 Resolute eP 07 16 30	MARCH 26 Resolute eP 02 54 07 (c) e 02 54 30 e 03 02 16	MARCH 26 Resolute eP 10 27 11
MARCH 25 Resolute eP 10 14 31	MARCH 26 Resolute eP 02 54 07 (c) e 02 54 30 e 03 02 16	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
MARCH 25 Resolute iP 11 51 40.5 d i 11 51 43		

SEISMOLOGICAL BULLETIN - 1959

Seven Falls eP 11 17 30	Ottawa iP 07 08 06 d P _c P 07 11 02 T 07 14 25	MARCH 27 Resolute eP 13 27 19
MARCH 26 Resolute eP 13 17 39 e 13 27.2	Resolute iP 07 12 00.5 d iP _c P 07 12 45 eL 07 27.0	MARCH 27 Resolute eP 14 08 21
MARCH 26 Resolute eP 13 43 11 e 13 43 32	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 Resolute eP 15 46 08
MARCH 26 Resolute eP 14 25 31	MARCH 27 48°04'N, 123°50'W Olympic Mountain H = 07 03 13 Mag 2.9	MARCH 27 Resolute eP 15 57 37
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	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 16 26 46
MARCH 27 Resolute iP 07 05 24 c	MARCH 27 Resolute eP 08 37 25.5	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
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	MARCH 27 Resolute eP 11 18 52.5 e 11 20 48.5	

DOMINION OBSERVATORIES

MARCH 27 Resolute eP 23 53 05	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 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 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 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 29 Resolute eP 07 41 36 (c)
MARCH 28 Resolute eP 08 46 00 (c)	MARCH 29 Resolute eP 09 31 10	MARCH 29 Resolute eP 12 06 09
MARCH 28 Resolute eP 11 03 52	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
MARCH 28 Resolute eP 15 03.5 e 15 03 57	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 28 Resolute iP 16 19 38	MARCH 29 Resolute eP 03 33 52 c	
MARCH 28 U. S. C. G. S. 21N, 120E Off south coast of Formosa H = 17 11 16 Resolute iP 17 23 36 d		

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
iP 16 07 41 c

MARCH 31
Resolute
eP 18 13 24.5

MARCH 31
Resolute
eP 20 01 14

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.

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- 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.

FEBRUARY 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	$T_s = 1 \text{ sec.}$	$T_g = 2.0 \text{ sec.}^*$
Ottawa - Benioff	Z	$T_s = 1 \text{ sec.}$	$T_g = 75 \text{ sec.}$
Resolute - Columbia	Z	$T_s = 10 \text{ sec.}$	$T_g = 23 \text{ sec.}$
Victoria - Benioff	Z	$T_s = 1 \text{ sec.}$	$T_g = 75 \text{ sec.}$

* 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	H O U R	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	3
		18	1	6.2	6.0	1	2.8	6.0	1	0.9	6.0	3	1.4	5.0	
		0	1	4.9	5.5	1	2.8	6.0	1	0.9	6.6	3	1.3	5.0	
		1	1	5.1	6.0	1	3.5	6.0	1	1.0	6.0	...			International day
		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	...			...
		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	Resolute storm start

DOMINION OBSERVATORIES

DATE	H O U R	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
		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	H O U R	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			International day
		1	...			1	5.8	8.0	2	2.5	8.3	...					
		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	...					Resolute storm end
		5	...			1	4.4	7.0	2	2.3	7.7	...					
		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	...					

DOMINION OBSERVATORIES

DATE	H O U R	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	...	...	...
	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	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	H O U R	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	
	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	

DOMINION OBSERVATORIES

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

DOMINION OBSERVATORIES

DATE	H O U R	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	H O U R	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		
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		

Resolute storm end

DOMINION OBSERVATORIES

SEISMOLOGICAL BULLETIN - 1959

DATE	H O U R	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	H O U R	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	H O U R	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	H O U R	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

SEISMOLOGICAL BULLETIN - 1959

DATE	H O U R	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	H O U R	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

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1960