



SEISMOLOGICAL SERIES
of the
DOMINION OBSERVATORY

1963-1
Seismological Bulletin
January - March
1963

**Seismological Service
of Canada**



OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1964

SEISMOLOGICAL BULLETIN - 1963

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

Alert, N. W. T. -

Owned and operated by the Dominion Observatory.

C. H. McCloughan in charge.

Halifax, Nova Scotia -

Operated by Dalhousie University for the Dominion Observatory.

London, Ontario -

Operated by The University of Western Ontario for the Dominion Observatory.

Mould Bay, N. W. T. -

Owned and operated by the Dominion Observatory.

W. T. Piche in charge.

Ottawa, Ontario -

Owned and operated by the Dominion Observatory.

Resolute, N. W. T. -

Owned and operated by the Dominion Observatory.

O. J. Jensen in charge.

Scarborough, Ontario -

Owned by Dominion Observatory.

Operated for Dominion Observatory by Radiosonde Division, Meteorological Branch, Department of Transport.

Schefferville, Quebec -

Owned by Dominion Observatory.

Operated for Dominion Observatory by McGill Sub-Arctic Research Laboratory.

Sept.-Iles, Quebec -

This station is owned and operated by the North Shore and Labrador Railway Company, Sept.-Iles, P. Q. and seismograms from the station are available through the Dominion Observatory.

Seven Falls, Quebec -

Owned by the Dominion Observatory.

Operated by the Quebec Power Company for the Dominion Observatory.

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Eastern Division (Cont'd)

Shawinigan Falls, Quebec -

Owned by the Shawinigan Water and Power Co.

Operated by the Company for the Dominion Observatory.

Yellowknife, N. W. T. -

An experimental array is being operated at Yellowknife, N. W. T. through co-operation of the Dominion Observatory, Ottawa, Defence Research Board, Ottawa, and the United Kingdom Atomic Energy Authority. One seismometer of this array produces a visual record. Copies of these records are available at Ottawa. Calibrations are shown on each record.

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

Western Division

Banff, Alberta -

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

Penticton, British Columbia -

Owned and operated by the Dominion Observatory.
W. H. McNaughton in charge.

Port Hardy, British Columbia -

Owned by Dominion Observatory.
Operated for Dominion Observatory by Radiosonde Division, Meteorological Branch, Department of Transport.

Victoria, British Columbia -

Dominion Astrophysical Observatory, Department of Mines and Technical Surveys, R. R. #7, Victoria, B. C.

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

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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.

DOMINION OBSERVATORIES

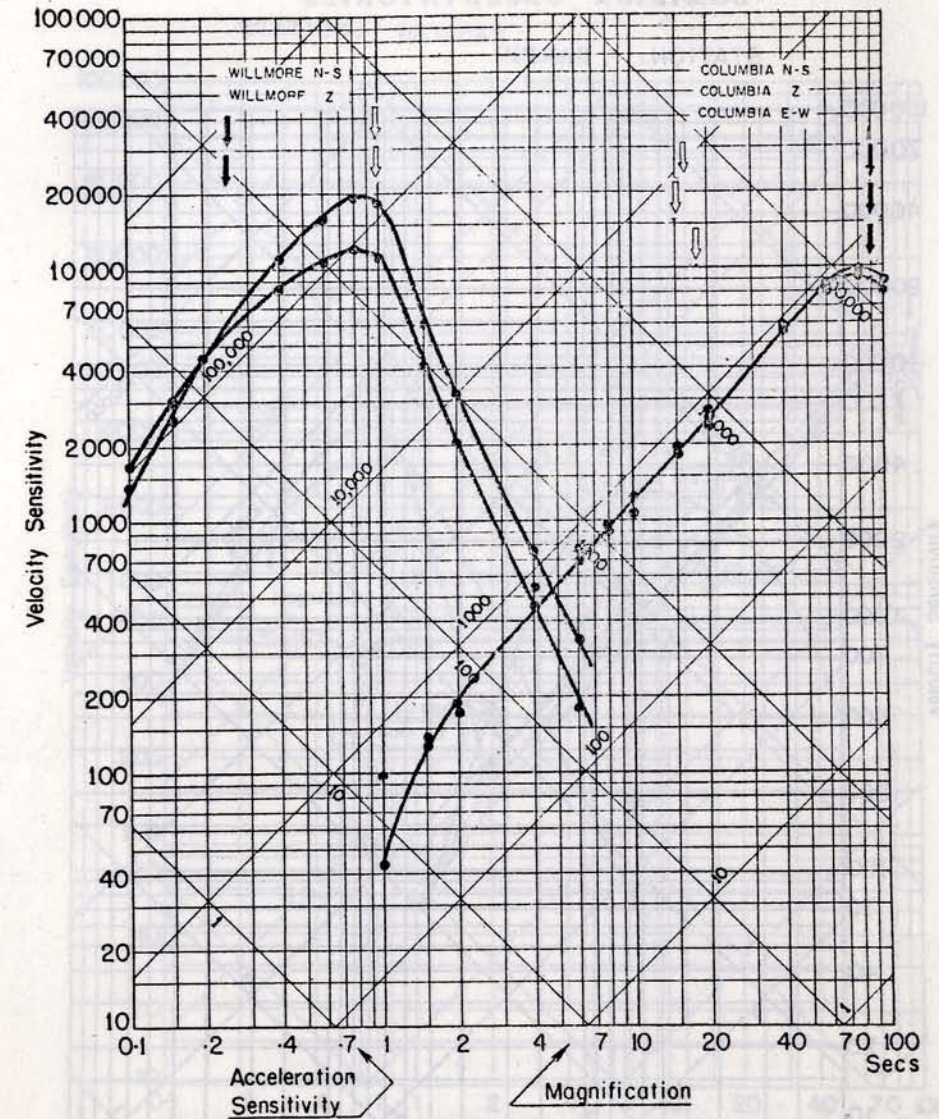
Explanation of Calibration Curves

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., Volume 49, No. 1, pp. 99-114, 1959.) 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 $\frac{\pi T}{2}$ 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.

SEISMOLOGICAL BULLETIN - 1963

STATION: ALERT



$\phi = 82^{\circ}29'N$ $\lambda = 62^{\circ}24'W$ Altitude 65M (C. a.)

Foundation : Permanently frozen glacial debris overlying Palaeozoic limestone.

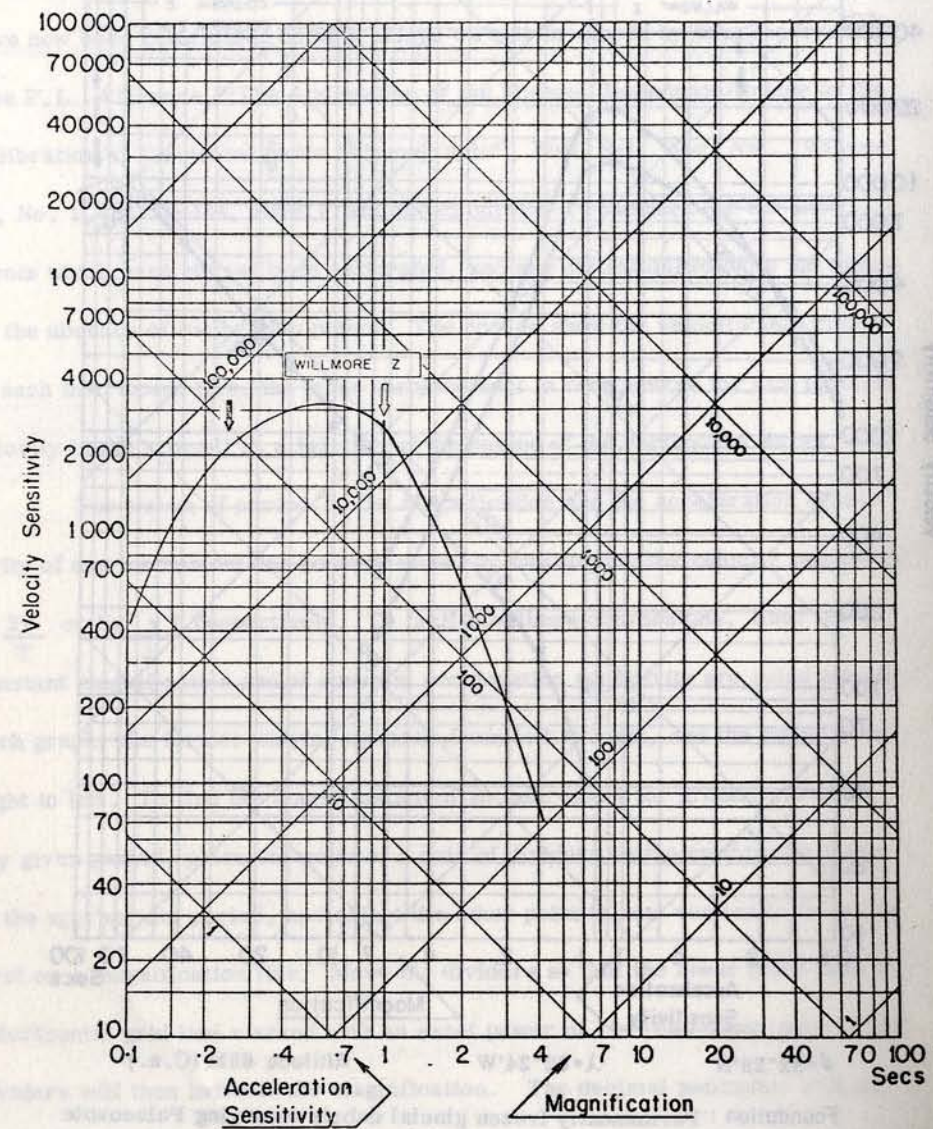
$T_s \uparrow$ $T_g \uparrow$

Date of Calibration: 1961

WILLMORE'S		COLUMBIA'S	
S. P. - Z	SEPT. - 29	L. P. - Z.	SEPT. - 30
S. P. H. - N. S.	SEPT. - 29	L. P. H. - N. S.	OCT. - 2
S. P. H. - E. W.		L. P. H. - E. W.	OCT. - 1

DOMINION OBSERVATORIES

STATION: BANFF



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

Foundation: Bedrock

$T_s \uparrow$

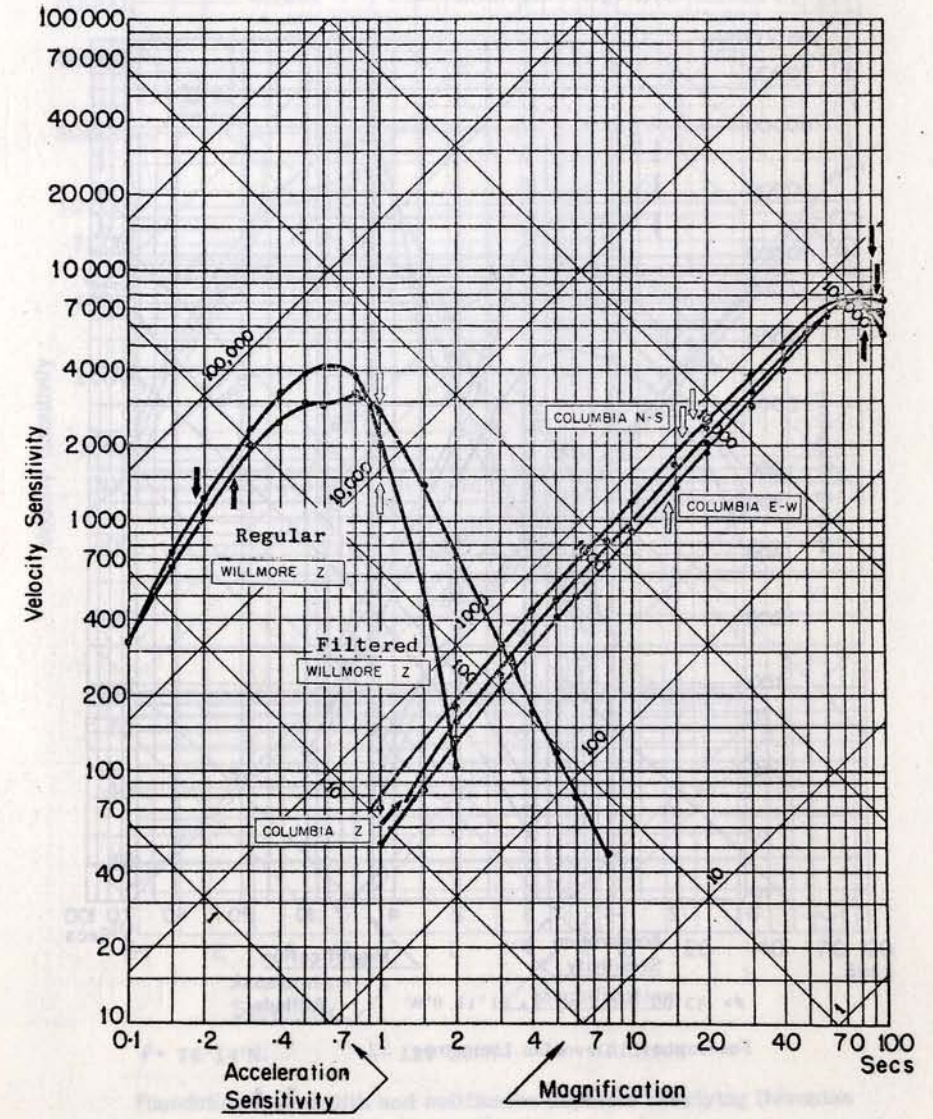
$T_g \uparrow$

Date of Calibration: Estimated Curve

SEISMOLOGICAL BULLETIN - 1963

CALIBRATION CURVES

STATION: HALIFAX



$\phi = 44^{\circ} 38' N$ $\lambda = 63^{\circ} 36' W$ Altitude 56 M

Foundation: Carbonaceous slate

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: June 1960

Columbia LP-EW June 10/60

Regular Willmore SPZ - June 3/60

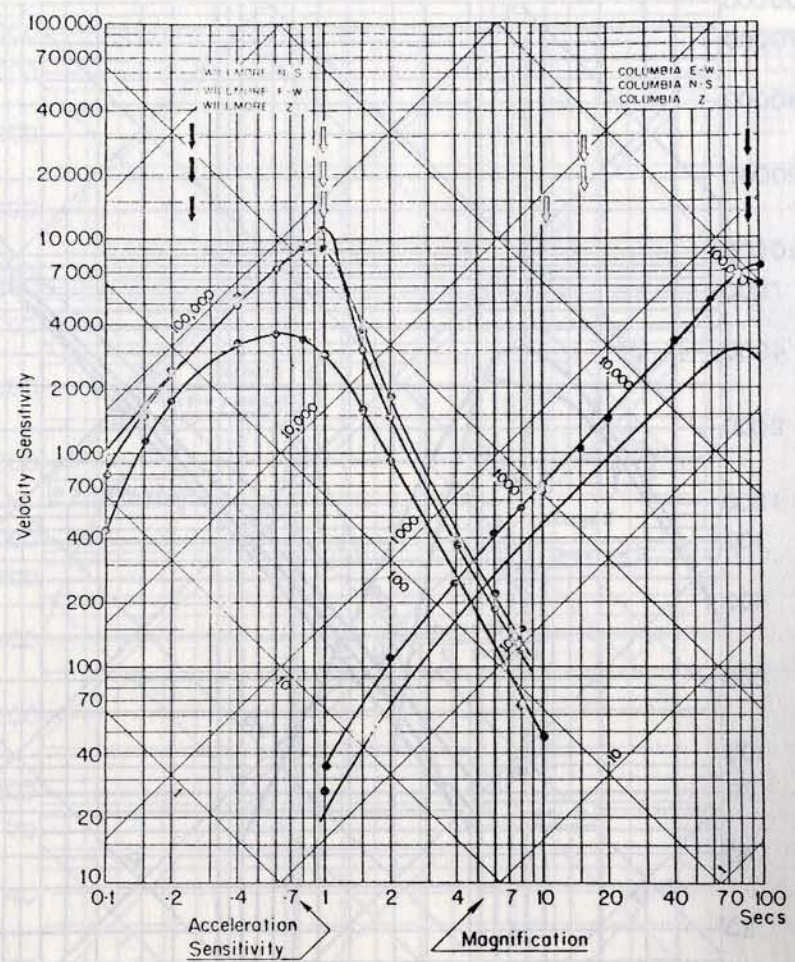
Columbia LP-NS June 10/60

Filtered Willmore SPZ - June 6/60

Columbia LP Z June 17/60

DOMINION OBSERVATORIES

STATION: LONDON



$\phi = 43^{\circ}02.4'N$ $\lambda = 81^{\circ}11.0'W$ Altitude

Foundation: Devonian Limestone

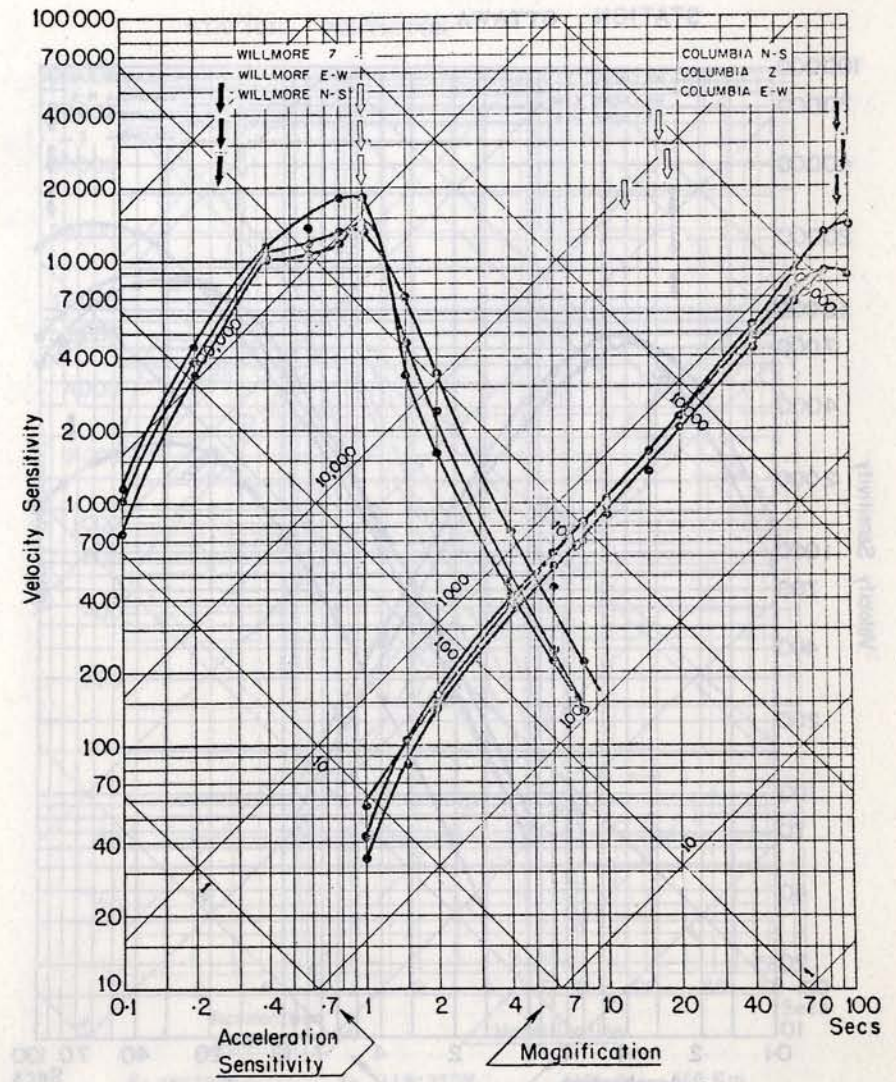
$T_s \uparrow$ $T_g \uparrow$

Date of Calibration: 1961-62

S. P. - Z.	NOV. 10	L. P. - Z.	JULY 2 - 1963
	(at Ottawa)		installed
S. P. H. - N. S.	DEC. 11	S. P. H. - N. S.	DEC. 12
S. P. H. - E. W.	DEC. 11	S. P. H. - E. W.	DEC. 13

SEISMOLOGICAL BULLETIN - 1963

STATION: MOULD BAY



$\phi = 76^{\circ}14'N$ $\lambda = 119^{\circ}20'W$ Altitude

Foundation: Regolith and solifluxion deposits overlying Devonian sandstone (permafrost)

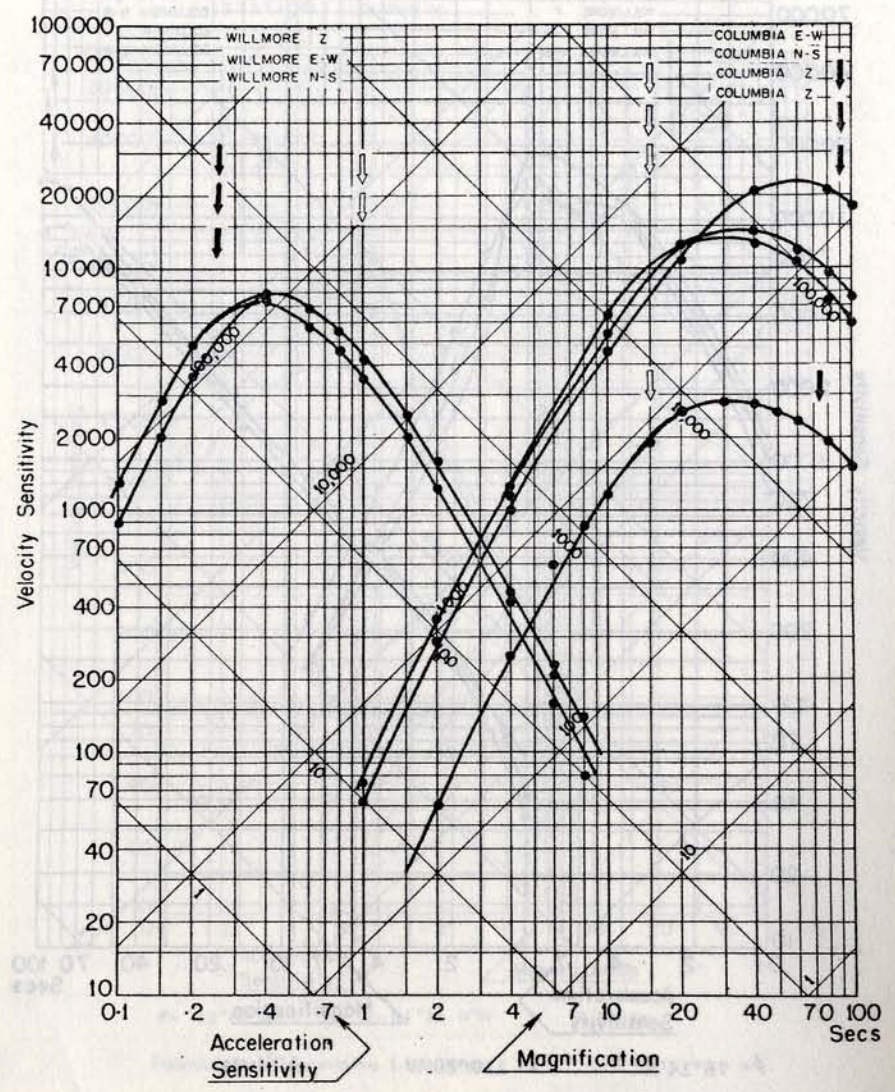
$T_s \uparrow$ $T_g \uparrow$

Date of Calibration: 1962

WILLMORE'S		COLUMBIA'S	
S. P. - Z.	AUG. - 27	L. P. - Z.	AUG. - 31
S. P. H. - N. S.	AUG. - 27	L. P. H. - N. S.	AUG. - 30
S. P. H. - E. W.	AUG. - 27	L. P. H. - E. W.	AUG. - 30

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STATION: OTTAWA



$\phi = 45^{\circ}23'38''N$ $\lambda = 75^{\circ}42'57''W$ Altitude 83M
 Foundation: Boulder clay on limestone

$T_s \uparrow$ $T_g \uparrow$

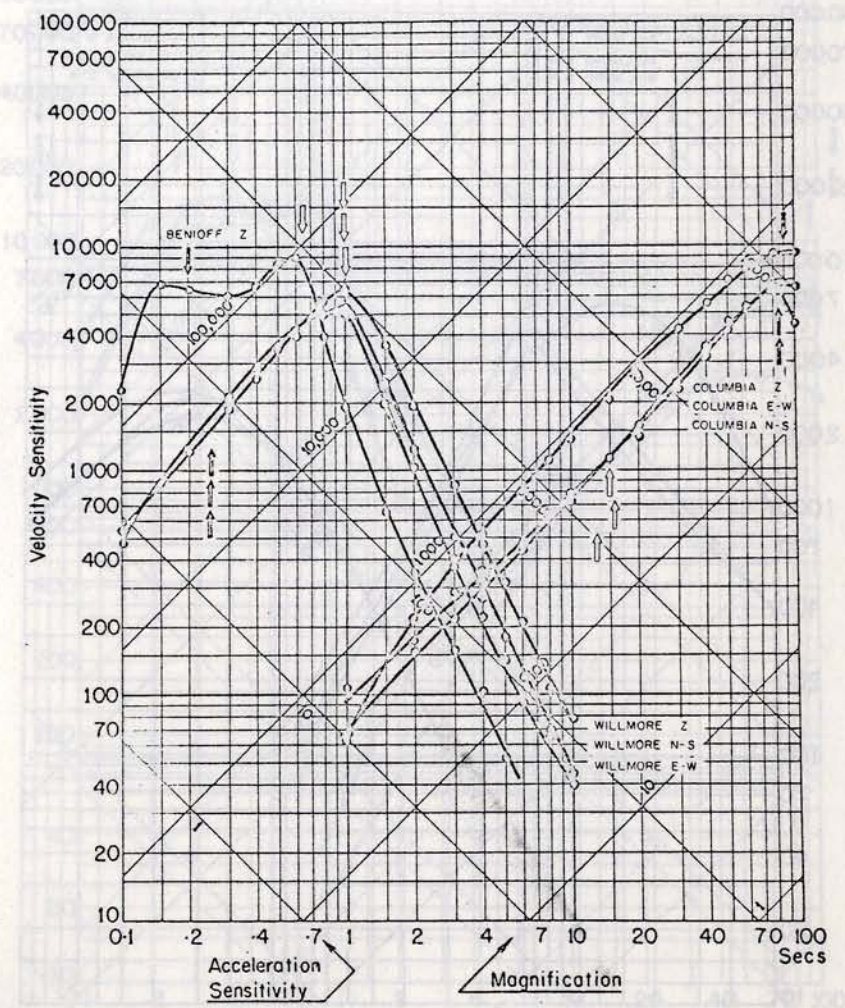
Date of Calibration: 1961-63

S. P. - Z.	JAN. 22	L. P. - Z.	JUNE 1 - 1961
S. P. - N.S.	JAN. 30	L. P. - Z.	FEB. 1
S. P. - E.W.	JAN. 23	L. P. - N.S.	FEB. 1
		L. P. - E.W.	JAN. 31

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CALIBRATION CURVES

STATION: PENTICTON



$\phi = 49^{\circ}19'N$ $\lambda = 119^{\circ}37'W$ Altitude 550 Km
 Foundation: Tertiary shale

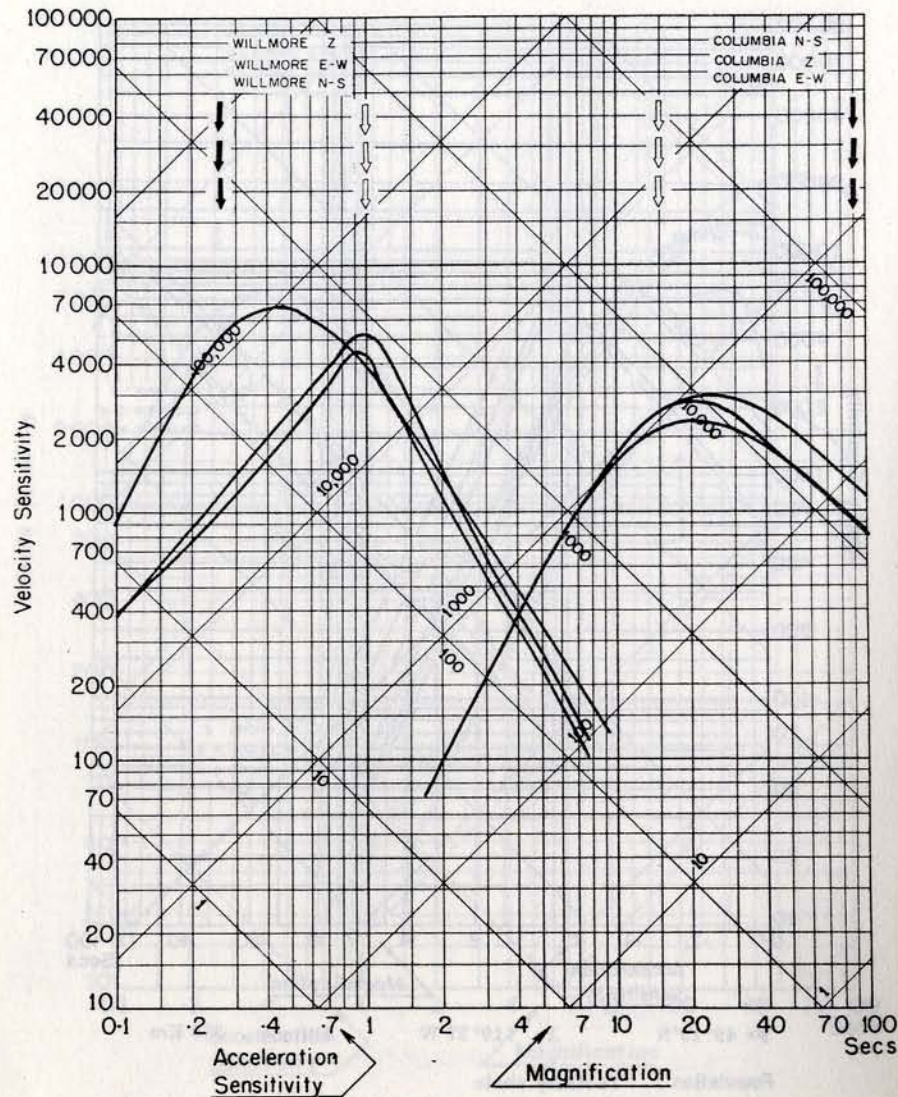
$T_s \uparrow$ $T_g \uparrow$

Date of Calibration: Feb. 1961

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

DOMINION OBSERVATORIES

STATION: PORT HARDY



$\phi = 50^{\circ} 42.4' N$ $\lambda = 127^{\circ} 25.9' W$ Altitude 30 m.

Foundation: Cretaceous sandstone

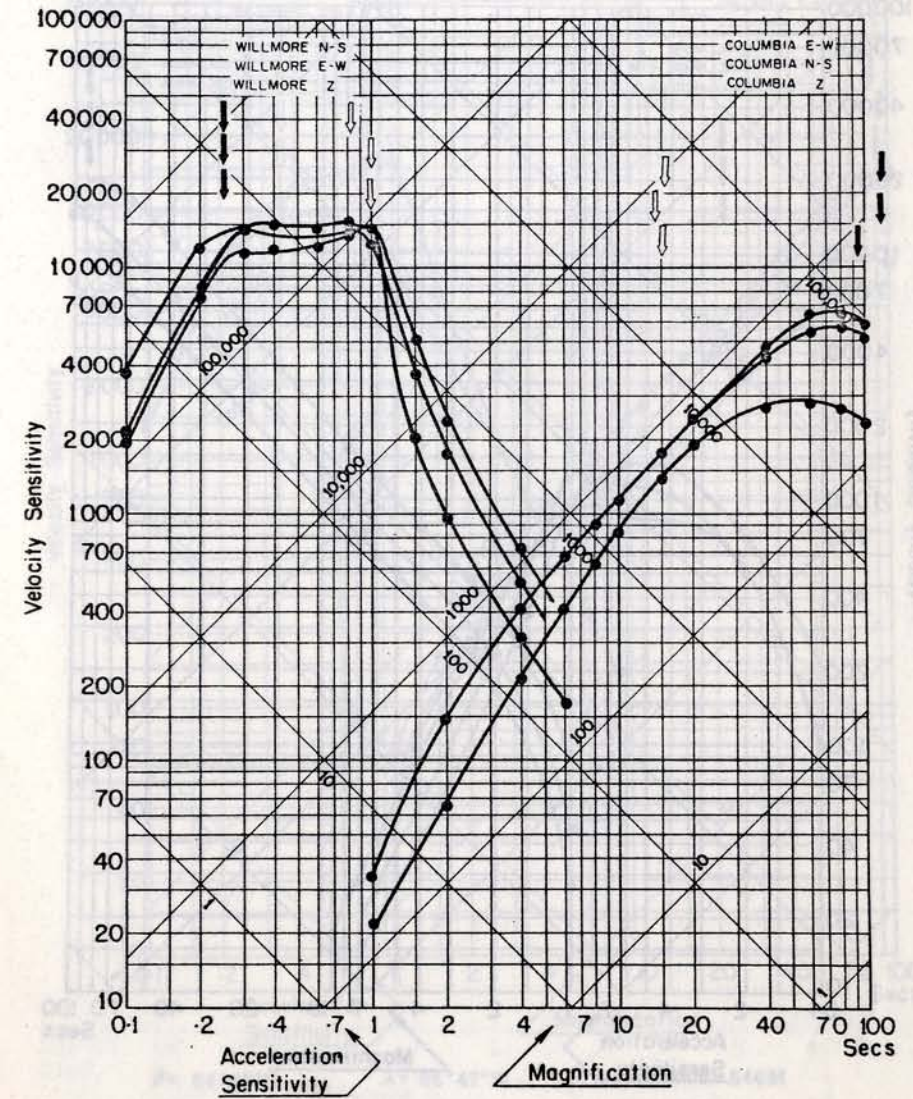
$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: March 17, 1963

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STATION: RESOLUTE, N.W.T.



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

Foundation: Early Palaeozoic limestone

$T_s \uparrow$

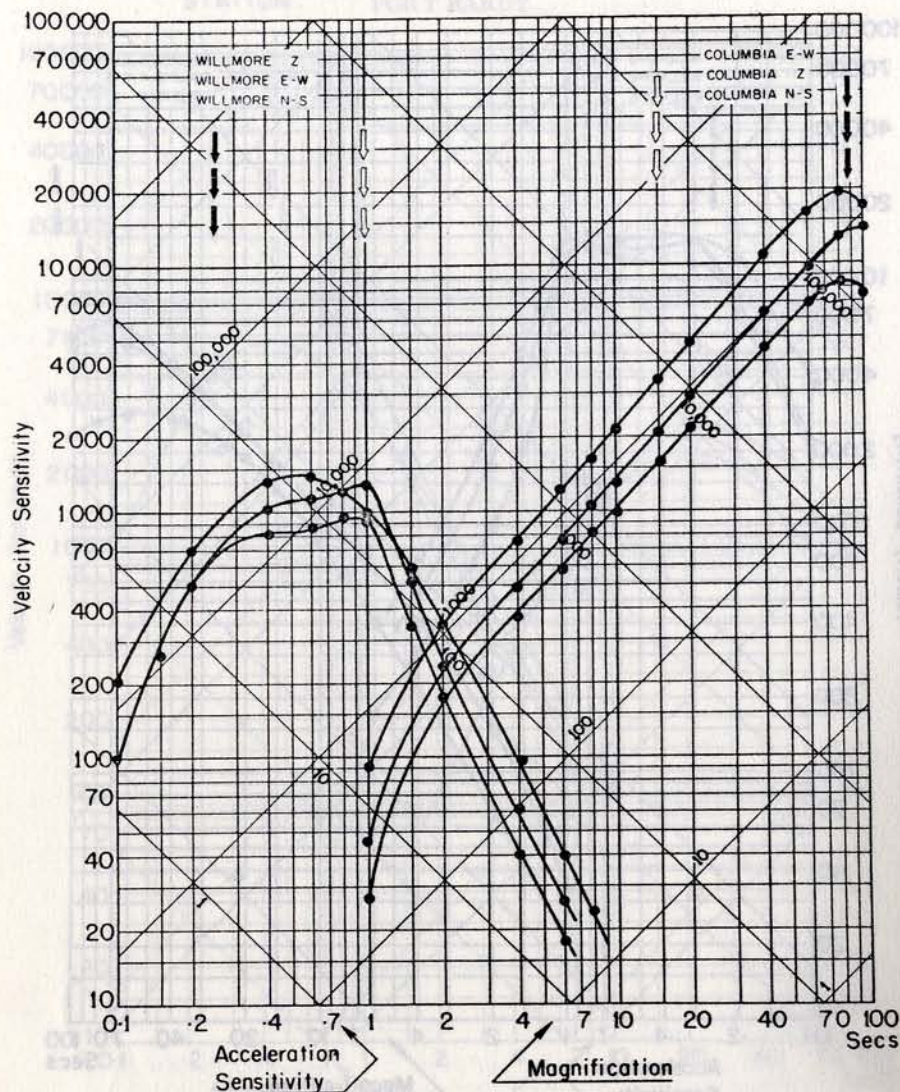
$T_g \uparrow$

Date of Calibration: August 1963

WILLMORE'S		COLUMBIA'S	
S.P. - Z.	AUG. 10	L.P. - Z.	AUG. 11
S.P.H. - N.S.	AUG. 10	L.P.H. - N.S.	AUG. 12
S.P.H. - E.W.	AUG. 10	L.P.H. - E.W.	AUG. 12

DOMINION OBSERVATORIES

STATION: SCARBOROUGH



$\phi = 43^{\circ}43'N$ $\lambda = 79^{\circ}14'W$ Altitude 153M

Foundation :

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: 1962

WILLMORE'S

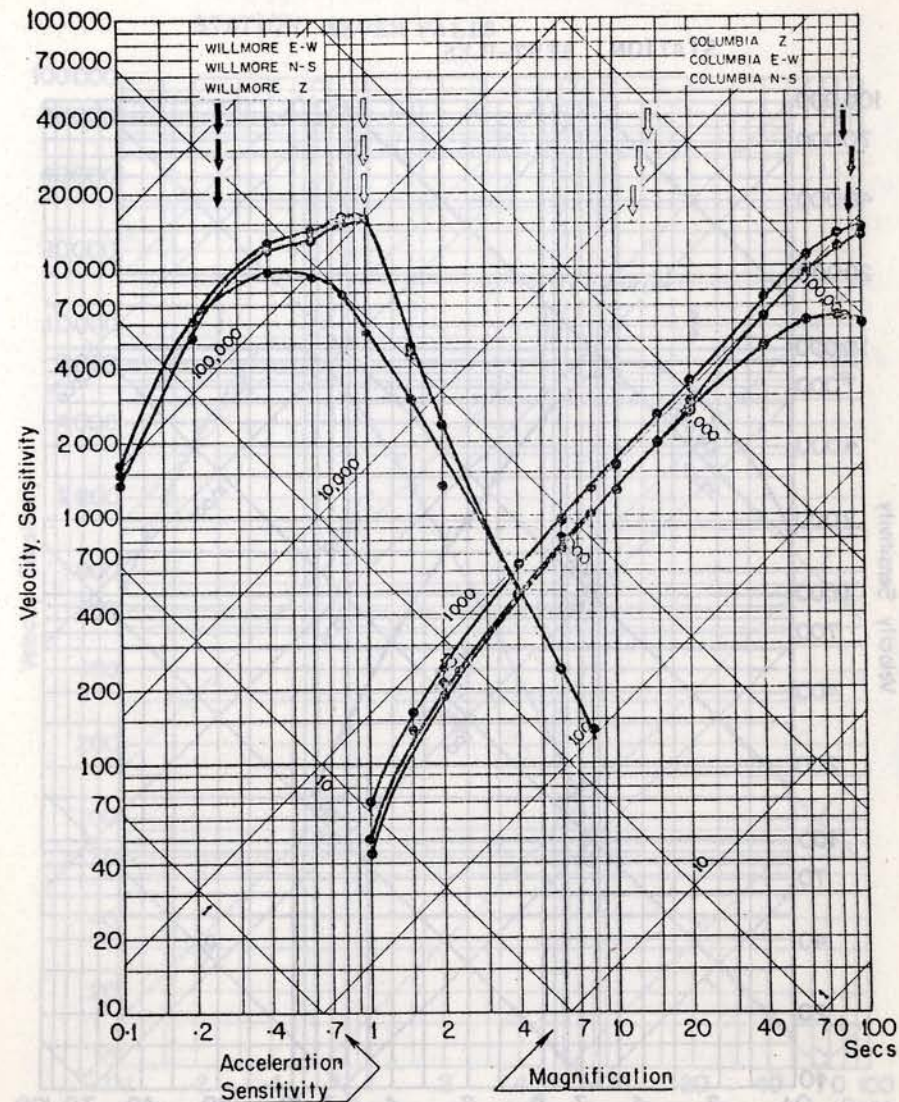
COLUMBIA'S

S.P. - Z. NOV. 9
 (at Ottawa)
 S.P.H. - N.S. MAY 30
 S.P.H. - E.W. MAY 30

L.P. - Z. MAY 31
 S.P.H. - N.S. MAY 31
 S.P.H. - E.W. JUNE 1

SEISMOLOGICAL BULLETIN - 1963

STATION: SCHEFFERVILLE



$\phi = 54^{\circ}49'N$ $\lambda = 66^{\circ}47'W$ Altitude 540M

Foundation : Precambrian foundation rocks.

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration:

WILLMORE'S

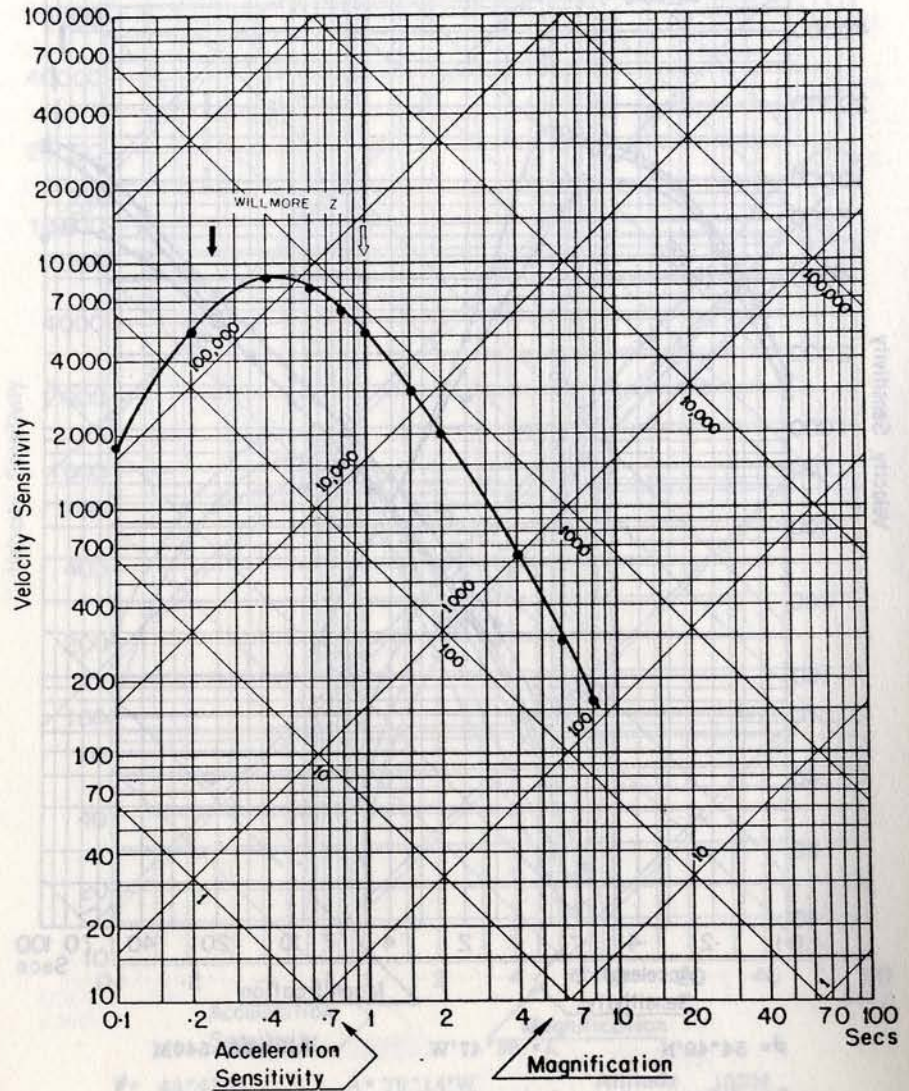
COLUMBIA'S

S.P. - Z JULY - 17
 S.P.H. - N.S. JULY - 17
 S.P.H. - E.W. JULY - 17

L.P. - Z JULY - 19
 L.P.H. - N.S. JULY - 19
 L.P.H. - E.W. JULY - 19

DOMINION OBSERVATORIES

STATION: SEPT-ILES



$\phi = 50^{\circ}10.2'N$ $\lambda = 66^{\circ}39.8'W$ Altitude

Foundation :

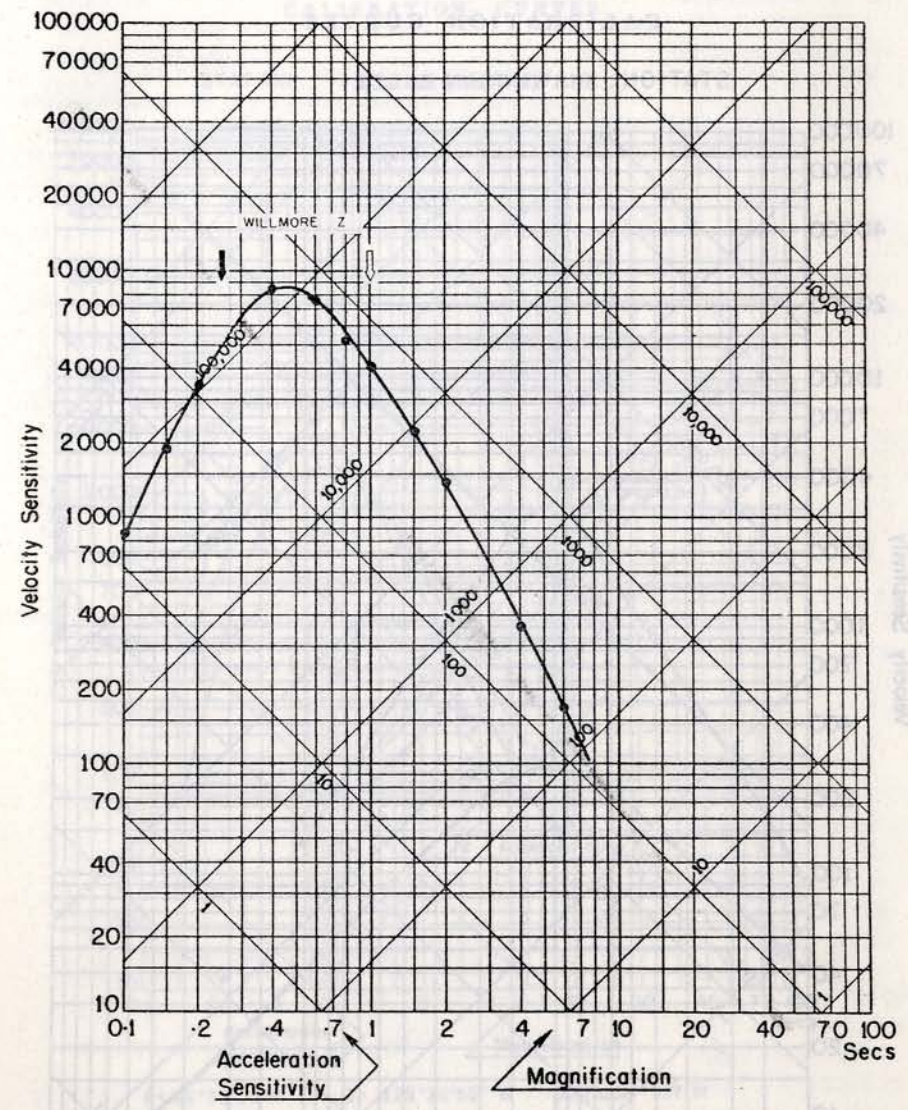
$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: January 29, 1963
(at Ottawa)

SEISMOLOGICAL BULLETIN - 1963

STATION: SEVEN FALLS



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

Foundation : Precambrian basement rocks.

$T_s \uparrow$

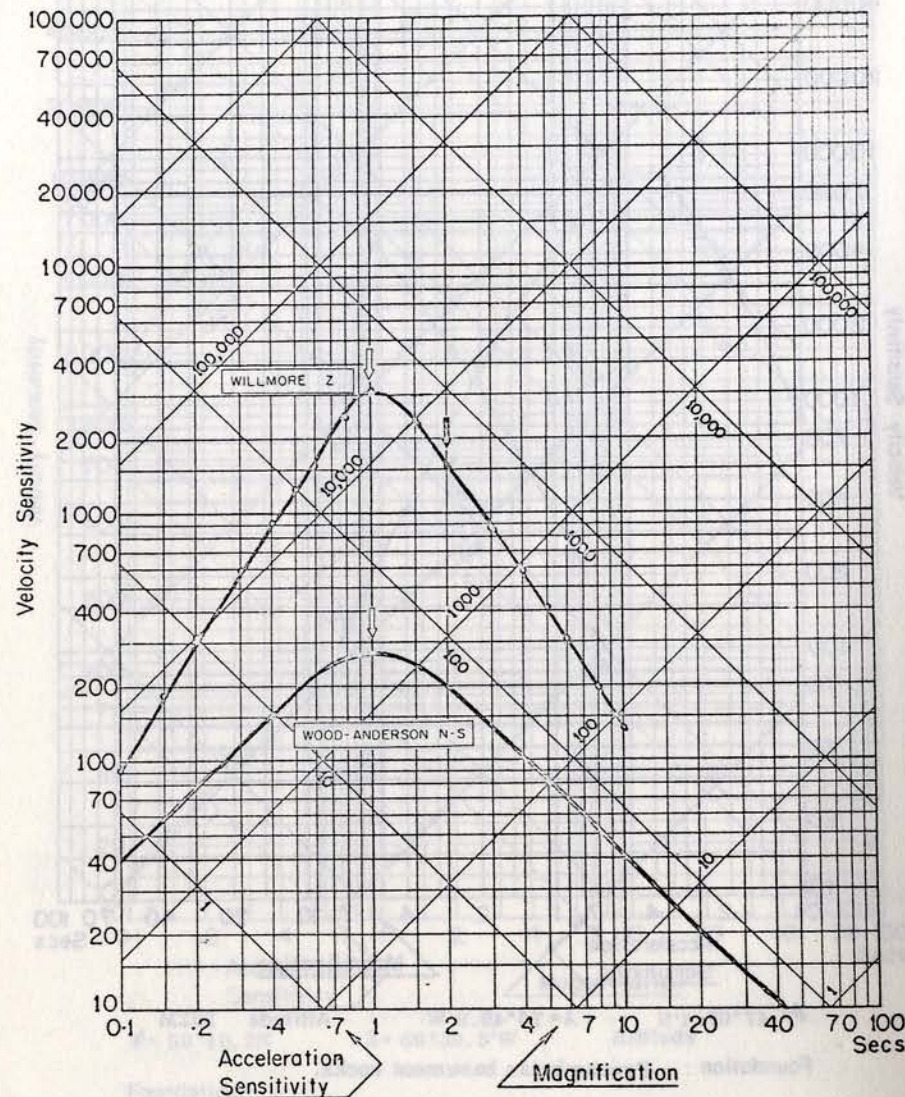
$T_g \uparrow$

Date of Calibration: February 10, 1963
(at Ottawa)

DOMINION OBSERVATORIES

CALIBRATION CURVES

STATION: SHAWINIGAN FALLS



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

Foundation: Precambrian basement

$T_s \uparrow$

$T_g \uparrow$

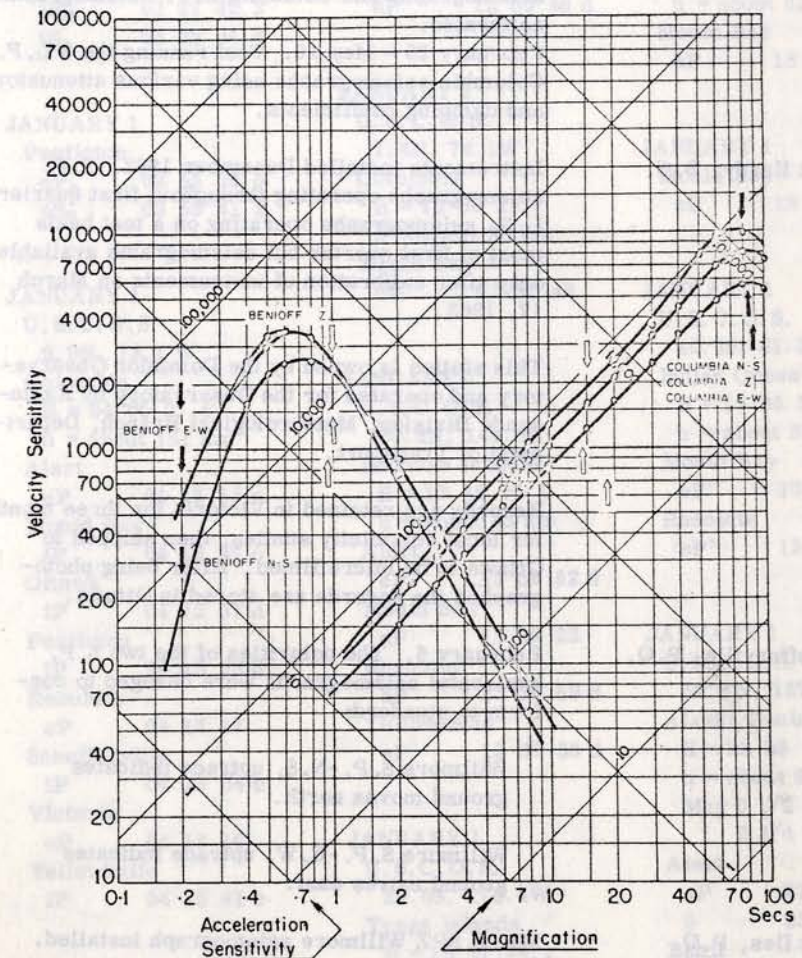
Date of Calibration: November 6, 1959

Read from end of minute mark.

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CALIBRATION CURVES

STATION: VICTORIA (Revised)



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

Foundation: Quartz Diorite

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: February - March - 1961

Benioff's

Columbia's

S. P. Z. Feb. 9
S. P. H. - N. S. Feb. 10
S. P. H. - E. W. Feb. 13

L. P. Z. Mar. 22
L. P. H. - N. S. Mar. 3
L. P. H. - E. W. Mar. 2

DOMINION OBSERVATORIES

JANUARY - MARCH 1963

NOTES

1. Ottawa, Ont. January 22 - February 1, - Willmore S. P. seismographs and Columbia L. P. seismographs calibrated. February 25 - May 10. Test running the 3 L. P. Columbia seismographs using various attenuators and damping coefficients.

2. Port Hardy, B. C. Instruments installed December 1962. S. P. seismographs operating throughout first quarter. L. P. seismographs operating on a test basis most of first quarter but seismograms available only after calibration of instruments on March 17, 1963.

This station is owned by the Dominion Observatory and operated for the Observatory by Radio-sonde Division, Meteorological Branch, Department of Transport.

Records are retained in Victoria for three months for local seismicity studies, then shipped to Ottawa to be microfilmed. After being photographed the records are stored in Ottawa.

3. Schefferville, P. Q. February 6. The polarities of the two S. P. horizontal seismographs were changed to conform to standard:

Willmore S. P. -N. S. uptrace indicates ground moves north.

Willmore S. P. -E. W. uptrace indicates ground moves east.

4. Sept Iles, P. Q. Mk. II SPZ Willmore seismograph installed.

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JANUARY 1
Penticton
eP_n 03 28 00.0
eS_n 03 28 41.1
Victoria
iP_n 03 27 42.2
iS_n 03 28 04.4

JANUARY 1
Penticton
eP_n 03 55 39.5
eS_n 03 56 41.2

JANUARY 1
U. S. C. G. S.
6. 9N, 73.1 W
Colombia
H = 04 05 27.5
h = about 151 km
Alert
eP 04 16 58 c
Mould Bay
iP 04 16 47 c
Ottawa
iP 04 12 37 d
Penticton
iP 04 15 03 d
Resolute
eP 04 16 17
Schefferville
iP 04 13 54 c
Victoria
eP 04 15 16
Yellowknife
iP 04 15 41 c

JANUARY 1
Penticton
eP 04 46 23

JANUARY 1
U. S. C. G. S.
6. 8S, 155. 9E
Solomon Islands
H = 12 17 38. 6
h = about 165 km

Mould Bay
eP 12 30 43
Ottawa
eP' 12 36 12
Yellowknife
eP 12 30 46 d

JANUARY 1
U. S. C. G. S.
7. 4N, 74. 1W
Colombia
H = 12 50 21. 7
h = about 33 km
Mould Bay
eP 13 01 43

JANUARY 1
U. S. C. G. S.
20. 8N, 144. 6E
Mariana Islands
H = 13 48 06. 5
h = about 43 km
Alert
eP 13 59 52 d
Mould Bay
eP 13 59 23
Resolute
eP 13 59 59 d
Yellowknife
eP 13 59 53 d

JANUARY 1
U. S. C. G. S.
20. 0S, 175. 4W
Tonga Islands
H = 16 27 38. 1
h = about 130 km
Penticton
iP 16 40 01 d

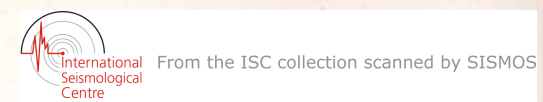
JANUARY 1
U. S. C. G. S.
6. 9S, 155. 5E
Solomon Islands
H = 17 49 31. 0
h = about 82 km
Mould Bay
eP 18 02 47

JANUARY 1
Mould Bay
eP 19 38 39

JANUARY 1
U. S. C. G. S.
40. 2S, 81. 3E
Indian Ocean
H = 19 35 55. 1
h = about 33 km
Mould Bay
eP' 19 55 22
Resolute
eP' 19 55 29

JANUARY 1
U. S. C. G. S.
56. 6N, 157. 7W
Alaska Peninsula
H = 23 39 05. 6
h = about 50 km
Mag 6 1/2 (PAS)
5 3/4 (PAL)

Alert
eP 23 45 55 c
S 23 51 19
Banff
iP 23 44 27 d
Halifax
iP 23 48 42 d
London
iP 23 47 45
Mould Bay
iP 23 44 (18) c
iS 23 48 31
Ottawa
iP 23 47 53 d
Penticton
iP 23 44 16 d
Port Hardy
iP 23 43 23 d



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Resolute eP 23 45 07 c	JANUARY 2 Mould Bay eP 09 01 (11) c	JANUARY 2 U. S. C. G. S. 52.9S, 118.2W South Pacific Ocean H = 15 55 47.9 h = about 33 km
Schefferville eP 23 47 39 d	JANUARY 2 U. S. C. G. S. 10.0N, 84.8W West coast of Costa Rica H = 09 53 36.7 h = about 151 km	Mould Bay eP' 16 14 51
Victoria iP 23 44 00 c	JANUARY 2 U. S. C. G. S. 10.0N, 84.8W West coast of Costa Rica H = 09 53 36.7 h = about 151 km	JANUARY 2 Mould Bay eP 18 21 25
Yellowknife iP 23 43 59 d	JANUARY 2 U. S. C. G. S. 10.0N, 84.8W West coast of Costa Rica H = 09 53 36.7 h = about 151 km	Resolute e(P) 18 22 06 d
JANUARY 2 Mould Bay eP 00 17 (33)	JANUARY 2 Mould Bay eP 10 04 26	JANUARY 2 Mould Bay eP 21 03 53
Yellowknife eP 00 17 40	Penticton iP 10 02 07 d	JANUARY 3 U. S. C. G. S. 29.7N, 130.1E Ryukyu Islands H = 03 05 03.5 h = about 33 km
JANUARY 2 U. S. C. G. S. 17.5N, 82.7W Swan Islands region H = 00 53 49.1 h = about 33 km	JANUARY 2 Mould Bay eP 11 57 01	Alert eP 03 16 01
Mould Bay eP 01 04 02	JANUARY 2 U. S. C. G. S. 51.4N, 178.4W Andeanof Islands Aleutian Islands H = 11 57 21.2 h = about 29 km	Banff eP 03 17 16
Schefferville eP 01 01 12	Mould Bay eP 12 04 (00)	Mould Bay eP 03 15 48 c
JANUARY 2 U. S. C. G. S. 4.6S, 105.9W 1700 km south of Galapagos Islands H = 01 15 50.6 h = about 33 km	Penticton eP 12 04 27	Penticton iP 03 17 12
Mould Bay eP 01 27 (54)	JANUARY 2 U. S. C. G. S. 4.1S, 135.2E Near-south coast of Western New Guinea H = 14 56 05.4 h = about 33 km	Resolute eP 03 16 24 c
Penticton iP 01 25 20 d	Mould Bay eP 15 09 32	JANUARY 3 Mould Bay eP 05 17 17 c
JANUARY 2 H = 05 39 43	JANUARY 2 U. S. C. G. S. 4.1S, 135.2E Near-south coast of Western New Guinea H = 14 56 05.4 h = about 33 km	Resolute eP 05 17 53 c
Port Hardy iP ₁ 05 40 08.7	Mould Bay eP 15 09 32	JANUARY 3 Mould Bay eP 06 44 19
iS ₁ 05 40 27.0	JANUARY 2 U. S. C. G. S. 4.1S, 135.2E Near-south coast of Western New Guinea H = 14 56 05.4 h = about 33 km	JANUARY 3 Mould Bay eP 06 44 19
D = 150 km	Mould Bay eP 15 09 32	

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JANUARY 3 U. S. C. G. S. 52.6N, 167.8W Fox Islands Aleutian Islands H = 07 13 29 h = about 33 km	Yellowknife eP 14 09 54	Resolute eP 05 53 42
Mould Bay eP 07 19 (36)	JANUARY 3 Shawinigan Falls eP 19 11 (17)	Yellowknife eP 05 53 44
JANUARY 3 Penticton eP 08 18 15	JANUARY 4 U. S. C. G. S. 1.2N, 27.7W 1500 km south of Cape Verde Islands H = 00 23 55.1 h = about 33 km	JANUARY 4 U. S. C. G. S. 32.6S, 178.6W Kermadec Islands region H = 06 43 42.3 h = about 44 km
JANUARY 3 Mould Bay eP 08 39 18	Alert eP 00 36 17	Resolute eP' 07 02 25 d
JANUARY 3 U. S. C. G. S. 5.3S, 151.5E New Britain H = 09 39 46.8 h = about 74 km	Halifax eP 00 33 14	JANUARY 4 H = 08 29 02
Banff eP 09 53 05 c	Mould Bay eP 00 36 49	Port Hardy iP _n 08 29 36.5
Mould Bay eP 09 53 00	Ottawa eP 00 34 08	iS _n 08 30 04.7
Ottawa eP' 09 58 35	Resolute eP 00 36 18 d	D = 230 km
Penticton eP 09 52 54	Schefferville eP 00 34 16	JANUARY 4 U. S. C. G. S. 46.3N, 154.3E
Shawinigan Falls eP' 09 58 37	Shawinigan Falls eP 00 33 59	Kurile Islands H = 08 47 25.2 h = about 33 km
Yellowknife eP 09 53 (12)	JANUARY 4 Mould Bay eP 01 51 23	Mould Bay eP 08 55 36
JANUARY 3 U. S. C. G. S. 6.9S, 155.2E Solomon Islands H = 13 56 34.5 h = about 91 km	JANUARY 4 U. S. C. G. S. 29.7N, 142.2E Bonin Islands region H = 05 42 35.3 h = about 33 km	JANUARY 4 77.5°N, 118.1°W Off the coast of Prince Patrick Island Foreshock of the earthquake on January 4 at 12 43 00.6 H = 11 14 20.8 Mag 2.5
Mould Bay eP 14 09 50 c	Alert eP 05 53 30	Mould Bay P ₁ 11 14 43
	Mould Bay eP 05 53 03	S ₁ 11 15 00
	Penticton iP 05 54 04	D = 140 km

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JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island.
Foreshock of the
earthquake on
January 4 at 12 43 00.6
H = 11 18 01.8
Mag 2.0
Mould Bay
P₁ 11 18 24
S₁ 11 18 41
D = 140 km

JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island.
Foreshock of the
earthquake on
January 4 at 12 43 00.6
H = 11 21 50.8
Mag 2.0
Mould Bay
P₁ 11 22 13
S₁ 11 22 30
D = 140 km

JANUARY 4
77.5°N, 118.1°W
Off coast of
Prince Patrick Island.
Foreshock of the
earthquake on
January 4 at 12 43 00.6
H = 11 54 26.8
Mag 2.2
Mould Bay
P₁ 11 54 49
S₁ 11 55 06
D = 140 km

JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island.
Foreshock of the
earthquake on
January 4 at 12 43 00.6
H = 12 13 10.8
Mag 2.0
Mould Bay
P₁ 12 13 33
S₁ 12 13 50
D = 140 km

JANUARY 4
U. S. C. G. S.
4.7S, 154.0E
Solomon Islands
region
H = 12 16 38.0
h = about 69 km
Alert
e 12 40.9
Mould Bay
eP 12 29 (50)
Penticton
eP 12 29 30
Yellowknife
eP 12 29 (54)

JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island.
Foreshock of the
earthquake on
January 4 at 12 43 00.6
H = 12 27 21.8
Mag 2.2
Mould Bay
P₁ 12 27 44
S₁ 12 28 01
D = 140 km

JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island,
near Cape Leopold
McClintock
January 4 at 12 43 00.6
H = 12 43 00.6
Mag 3.2
Alert
Not recorded
Mould Bay
P₁ 12 43 23 c,S
S₁ 12 43 40
D = 140 km
Resolute
P_n 12 44 30
S_n 12 45 37
L_g 12 46 07
D = 690 km

JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island,
Aftershock of the
earthquake on
January 4 at 12 43 00.6
H = 12 55 44.8
Mag 2.0
Mould Bay
P₁ 12 56 07
S₁ 12 56 24
D = 140 km

JANUARY 4
H = 13 22 48
Mag 2.8
Probably in Montana,
U. S. A.
Banff
eP_n 13 23 33.3
eS_n 13 24 11.3
D = 312 km

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Penticton
eP_n 13 23 44.8
eS_n 13 24 36.0
D = 420 km

JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island
Aftershock of the
earthquake on
January 4 at 12 43 00.6
H = 13 23 20.8
Mag 2.0
Mould Bay
P₁ 13 23 43
S₁ 13 24 00
D = 140 km

JANUARY 4
Penticton
iP 13 47 50

JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island
Aftershock of the
earthquake on
January 4 at 12 43 00.6
H = 16 24 40.8
Mag 1.9
Mould Bay
P₁ 16 25 03
S₁ 16 25 20
D = 140 km

JANUARY 4
Canadian Arctic
H = 18 16 37
Mag 2.1
Alert
P₁ 18 17 02
S₁ 18 17 21
D = 156 km

JANUARY 4
Mould Bay
eP 18 32 17

JANUARY 4
77.5°N, 118.1°W
Off the coast of
Prince Patrick Island.
Aftershock of the
earthquake on
January 4 at 12 43 00.6
H = 18 55 51.8
Mag 2.1
Mould Bay
P₁ 18 56 14
S₁ 18 56 31
D = 140 km

JANUARY 4
U. S. C. G. S.
6.9N, 73.1W
Colombia
H = 21 17 10.0
h = about 160 km
Mould Bay
eP 21 28 28 d
Penticton
eP 21 26 45
Yellowknife
iP 21 27 22 d

JANUARY 4
U. S. C. G. S.
46.5N, 153.7E
Kurile Islands
H = 23 50 09.1
h = about 33 km
Alert
eP 23 59 00
Mould Bay
eP 23 58 20 c
Resolute
eP 23 59 09 c

JANUARY 5
U. S. C. G. S.
3.2N, 127.0E
Halmahera region
H = 00 20 11.6
h = about 33 km
Mould Bay
eP 00 33 21
Resolute
eP 00 33 48 c

JANUARY 5
Banff
eP 00 40 13 d
Penticton
iP 00 39 59 d

JANUARY 5
Mould Bay
eP 01 49 49 d

JANUARY 5
Mould Bay
eP 04 05 06

JANUARY 5
Mould Bay
eP 05 49 (14)
Yellowknife
eP 05 47 57

JANUARY 5
U. S. C. G. S.
65.2N, 148.0W
Central Alaska
H = 06 52 26.6
h = about 33 km
Banff
eP 06 57 16
Mould Bay
eP 06 55 (50)
Penticton
iP 06 57 17 c

DOMINION OBSERVATORIES

Victoria eP 06 57 14	Halifax eP' 13 36 19	JANUARY 6 U.S.C.G.S. 6.0N, 125.3E
Yellowknife eP 06 55 52	Mould Bay eP 13 30 54	Near coast of Mindanao, Philippine Islands H = 03 18 56.6 h = 143 km
JANUARY 5 U.S.C.G.S. 46.8N, 153.7E	Penticton iP' 13 35 24	Mould Bay eP 03 31 41
Kurile Islands H = 07 05 22.3 h = about 33 km	Victoria eP' 13 35 20	Ottawa eP' 03 37 41
Alert eP 07 14 12 c i 07 15 01	Yellowknife eP' 13 35 19	Resolute eP 03 32 08
Mould Bay eP 07 13 31 c	JANUARY 5 U.S.C.G.S. 43.0N, 152.6E	Shawinigan Falls eP' 03 37 42
Penticton iP 07 14 51 d	Kurile Islands region H = 15 05 00 h = about 33 km	JANUARY 6 U.S.C.G.S. 23.6N, 108.6W
Resolute eP 07 14 20 c	Resolute eP 15 14 09 c	Gulf of California H = 04 40 14 h = about 33 km
JANUARY 5 U.S.C.G.S. 7.3S, 73.9W	JANUARY 5 U.S.C.G.S. 7.0S, 72.1W	Mould Bay eP 04 49 30
Peru-Brazil border H = 11 05 10.5 h = about 180 km	Western Brazil H = 17 43 35.1 h = about 544 km	JANUARY 6 H = 06 01 17
Penticton iP 11 15 59 c	Alert eP 17 55 34 d	Port Hardy eP ₁ 06 01 45.0 eS ₁ 06 02 06.0 D = 173 km
JANUARY 5 Yellowknife e(P) 11 47 12	Mould Bay iP 17 55 25 d	JANUARY 6 U.S.C.G.S. 1.8S, 80.7W
JANUARY 5 U.S.C.G.S. 10.0S, 124.0E	Penticton iP 17 53 52 d	Near coast of Ecuador H = 06 17 28.0 h = about 51 km
Timor H = 13 16 43.0 h = about 33 km	Resolute eP 17 55 01 d	Alert iP 06 29 57
Alert e 13 44.9	Shawinigan Falls eP 17 52 04	Banff eP 06 27 34
Banff eP' 13 35 26	Yellowknife iP 17 54 29 d	London eP 06 25 36 c
	JANUARY 5 Mould Bay eP 21 35 06	

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Mould Bay eP 06 29 38 c	JANUARY 6 U.S.C.G.S. 62.7N, 151.1W	JANUARY 6 U.S.C.G.S. 8.9S, 123.8E
Ottawa eP 06 25 56	Central Alaska H = 17 25 53.8 h = about 116 km	Near Flores H = 19 46 58.8 h = about 33 km
Penticton iP 06 27 38 c	Alert iP 17 31 38 d	Schefferville eP' 20 06 11 e 20 09 33
Resolute eP 06 29 (15)	Banff eP 17 30 42	Shawinigan Falls e 20 09 52
Schefferville eP 06 27 14	Halifax iP 17 34 41 d	JANUARY 6 U.S.C.G.S. 47.4N, 155.9E
Shawinigan Falls eP 06 26 13	Mould Bay eP 17 29 47	Kurile Islands H = 21 20 56.5 h = about 33 km
Yellowknife eP 06 28 29 c	Penticton iP 17 30 39 d	Alert eP 21 29 40 d
JANUARY 6 U.S.C.G.S. 46.8N, 153.6E	Resolute eP 17 30 44 d	Banff eP 21 30 21
Kurile Islands H = 07 29 54.3 h = about 33 km	Schefferville eP 17 33 31 d	Mould Bay eP 21 28 57 d
Alert eP 07 38 44 c	Shawinigan Falls eP 17 33 59	Ottawa eP 21 32 47
Mould Bay eP 07 38 03 c	Yellowknife iP 17 29 41	Penticton iP 21 30 13
Penticton eP 07 39 20	JANUARY 6 Yellowknife eP 17 37 49	Resolute eP 21 29 46 d
Resolute eP 07 38 52 c	JANUARY 6 U.S.C.G.S. 44.7N, 112.0W	Schefferville eP 21 32 18 d
JANUARY 6 U.S.C.G.S. 41.7N, 142.4E	Montana - Idaho border region H = 18 07 47.8 h = about 33 km	Shawinigan Falls eP 21 32 48
Near south coast of Hokkaido, Japan H = 08 04 31.4 h = about 57 km	Banff eP 18 09 25	Yellowknife iP 21 29 42 d
Mould Bay eP 08 13 35	Mould Bay eP 18 14 10	JANUARY 7 Mould Bay eP 02 46 (11)
Resolute eP 08 14 19 c	Penticton eP 18 09 25	JANUARY 7 U.S.C.G.S. 6.4S, 154.7E
JANUARY 6 Mould Bay eP 10 08 54 c	Victoria eP 18 09 50	Solomon Islands H = 06 24 49.2 h = about 80 km
Resolute eP 10 09 21 c	Yellowknife eP 18 11 50	

DOMINION OBSERVATORIES

Banff
eP 06 38 02
Mould Bay
eP 06 38 03 c
Ottawa
eP' 06 43 34
Penticton
iP 06 37 50
Shawinigan Falls
eP' 06 43 37
Yellowknife
iP 06 38 08 c

JANUARY 7
Penticton
eP 07 08 55

JANUARY 7
Penticton
eP 07 28 10

JANUARY 7
Penticton
eP 07 57 48

JANUARY 7
Alert
e(P) 10 12 (01)

JANUARY 7
U. S. C. G. S.
0.6N, 126.7E
Halmahera region
H = 11 48 22.7
h = about 42 km
Mag 5 1/2 - 5 3/4
(PAL)
Alert
eP 12 01 (54)
Mould Bay
eP 12 01 41
Ottawa
eP' 12 07 30
Resolute
eP 12 02 09 c

Shawinigan Falls
eP' 12 07 30
Yellowknife
eP 12 02 16

JANUARY 7
Alert
e(P) 15 13 (00)

JANUARY 7
Port Hardy
eP₁ 18 59 46.2
eS₁ 19 00 05.5
D = 158 km

JANUARY 7
Port Hardy
eP₁ 19 08 44.5
eS₁ 19 09 05.6
D = 173 km

JANUARY 7
U. S. C. G. S.
17.5S, 167.7E
New Hebrides Islands
H = 19 19 34.1
h = about 19 km
Shawinigan Falls
eP' 19 38 31

JANUARY 8
U. S. C. G. S.
39.9N, 77.9E
Sinkiang Province,
China
H = 01 31 47.4
h = about 33 km
Mould Bay
eP 01 42 16 c

JANUARY 8
Yellowknife
e 10 51 51

JANUARY 8
Resolute
eP 14 09 47 d

JANUARY 8
Mould Bay
eP 15 24 36

JANUARY 8
U. S. C. G. S.
31.2N, 130.2E
Near south coast of
Kyushu, Japan
H = 15 46 45.5
h = about 177 km
Alert
eP 15 57 16
i 15 57 58
Mould Bay
eP 15 57 04 c
i 15 57 43
Penticton
iP 15 58 30
Resolute
eP 15 57 41 c
Schefferville
eP 15 59 (40)
Yellowknife
eP 15 57 58

JANUARY 8
Mould Bay
eP 19 49 49

JANUARY 8
U. S. C. G. S.
17.0S, 171.8W
Samoa Islands region
H = 19 50 04.9
h = about 33 km
Penticton
iP 20 02 15 c

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JANUARY 8
Mould Bay
eP 23 23 39

JANUARY 9
H = 00 01 27
Mag 1.3
Penticton
eP₁ 00 01 41.2
eS₁ 00 01 51.7
D = 86 km

JANUARY 9
U. S. C. G. S.
18.6N, 145.4E
Mariana Islands
H = 03 13 26.4
h = about 192 km
Alert
iP 03 25 06 c
Mould Bay
eP 03 24 37
i 03 25 20
S 03 33 48
Penticton
iP 03 25 11
Resolute
eP 03 25 13 c
Yellowknife
iP 03 25 05 c

JANUARY 9
Mould Bay
eP 08 37 32
Yellowknife
eP 08 36 10
eS 08 39 22

JANUARY 9
Port Hardy
eP_n 17 00 05.6
eS_n 17 00 32.0
D = 216 km

JANUARY 9
Penticton
eP 19 41 48

JANUARY 9
Penticton
eP 19 47 49

JANUARY 9
Mould Bay
eP 23 05 (11)

JANUARY 9
Port Hardy
eP₁ 23 49 41.4
eS₁ 23 49 49.8
D = 69 km

JANUARY 10
U. S. C. G. S.
18.8N, 106.3W
Off coast of
Jalisco, Mexico
H = 05 18 36.9
h = about 33 km
Mould Bay
eP 05 28 (26)

JANUARY 10
U. S. C. G. S.
36.7N, 70.8E
Hindu Kush
H = 06 47 04.0
h = about 193 km
Mould Bay
eP 06 57 38 c

JANUARY 10
Port Hardy
eP₁ 08 58 43.8
eS₁ 08 58 51.3
D = 61 km

JANUARY 10
Mould Bay
eP 09 27 (52)

JANUARY 10
U. S. C. G. S.
52.6N, 157.2E
Kamchatka
H = 17 14 07.3
h = about 125 km
Yellowknife
eP 17 22 09

JANUARY 10
U. S. C. G. S.
13.1N, 146.5E
Mariana Islands
H = 18 54 46.1
h = about 61 km
Alert
eP 19 07 10 c
Mould Bay
iP 19 06 41 c
Resolute
eP 19 07 14 c
Yellowknife
iP 19 07 03

JANUARY 11
U. S. C. G. S.
37.7N, 101.6E
Tsinghai Province,
China
H = 01 07 28.0
h = about 33 km
Mould Bay
eP 01 17 56
Resolute
eP 01 18 22 (d)
Yellowknife
eP 01 19 (14)

JANUARY 11
Resolute
eP 05 06 (00)

DOMINION OBSERVATORIES

JANUARY 11
 U. S. C. G. S.
 7.5N, 82.5W
 Near south coast
 of Panama
 H = 06 42 41.8
 h = about 33 km
 Yellowknife
 eP 06 52 43 d

JANUARY 11
 Canadian Arctic
 H = 07 18 09.2
 Mag 2.1
 Resolute
 P₁ 07 18 19
 S₁ 07 18 26.5
 D = 61.5 km

JANUARY 11
 U. S. C. G. S.
 35.7N, 70.7E
 Hindu Kush
 H = 11 41 40.0
 h = about 127 km
 Mould Bay
 eP 11 52 28 d

JANUARY 11
 U. S. C. G. S.
 45.0S, 75.7W
 Near coast of
 Southern Chile
 H = 12 12 16.2
 h = about 33 km
 Alert
 iP' 12 31 17
 London
 iP 12 25 04 (c)
 Mould Bay
 eP' 12 31 10
 i 12 31 12
 Ottawa
 eP 12 25 13
 Shawinigan Falls
 eP 12 25 21
 Yellowknife
 eP' 12 30 46

JANUARY 11
 U. S. C. G. S.
 12.6N, 88.2W
 Off coast of
 El Salvador
 H = 14 36 11.0
 h = about 33 km
 Alert
 iP 14 47 23
 Banff
 eP 14 44 18

Mould Bay
 eP 14 46 53
 Penticton
 eP 14 44 24
 Resolute
 eP 14 46 29
 Schefferville
 eP 14 44 27 d
 Shawinigan Falls
 eP 14 43 12
 Yellowknife
 iP 14 45 27

JANUARY 11
 U. S. C. G. S.
 29.4S, 178.6W
 Kermadec Islands
 H = 17 05 42.3
 h = about 225 km
 Mould Bay
 eP' 17 23 49
 Resolute
 eP' 17 23 58

JANUARY 11
 H = 23 21 07
 Mag 2.0
 Penticton
 eP_n 23 21 41.9
 eS_n 23 22 09.7
 D = 228 km

JANUARY 12
 Victoria
 eP 00 33 10 d

JANUARY 12
 Mould Bay
 eP 02 03 24
 Resolute
 e(P) 02 03 52 d

JANUARY 12
 Mould Bay
 eP 03 50 26

JANUARY 12
 U. S. C. G. S.
 4.8N, 76.7W
 Northern Colombia
 H = 03 40 34.8
 h = about 102 km

Alert
 iP 03 53 23 c
 Banff
 iP 03 50 07 c
 Halifax
 eP 03 48 13

London
 iP 03 47 47 c
 Mould Bay
 iP 03 52 06 c
 Penticton
 iP 03 50 14 c

Port Hardy
 iP 03 50 48 c
 Resolute
 eP 03 51 39 c
 Schefferville
 iP 03 49 25 c

Shawinigan Falls
 iP 03 48 17 c
 Victoria
 iP 03 50 26 c
 Yellowknife
 iP 03 50 58 c

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JANUARY 12
 U. S. C. G. S.
 15.1N, 120.5E
 Luzon, Philippine
 Islands
 H = 04 19 27.8
 h = about 83 km
 Mould Bay
 eP 04 31 40
 Resolute
 e(P) 04 32 08 d

JANUARY 12
 U. S. C. G. S.
 16.7N, 98.3W
 Near coast of
 Oaxaca, Mexico
 H = 06 02 10
 h = about 33 km
 Banff
 eP 06 09 28
 Mould Bay
 eP 06 12 18
 Penticton
 iP 06 09 17
 Resolute
 eP 06 12 (03)
 Yellowknife
 eP 06 10 39

JANUARY 12
 U. S. C. G. S.
 36.1N, 69.6E
 Hinda Kush
 H = 06 20 13.6
 h = about 97 km
 Alert
 e(P) 06 30 06
 Mould Bay
 eP 06 31 02 c
 Penticton
 iP 06 33 24
 Yellowknife
 iP 06 32 22 d

JANUARY 12
 U. S. C. G. S.
 1.8N, 129.3E
 Halmahera region
 H = 09 13 04.2
 h = about 112 km
 Mould Bay
 eP 09 26 08
 Resolute
 eP 09 26 35 (d)

JANUARY 12
 Penticton
 iP 10 54 27

JANUARY 12
 H = 13 12 36
 Mag 0.6
 Victoria
 iP₁ 13 12 37.6
 iS₁ 13 12 38.9
 D = 10 km

JANUARY 12
 H = 14 43 10
 Mag 2.6
 Penticton
 iP_n 14 43 55.4
 iS_n 14 44 33.9
 D = 315 km

JANUARY 12
 Penticton
 eP 14 58 47

JANUARY 12
 Alert
 e(P) 20 22 (07)

JANUARY 12
 U. S. C. G. S.
 7.1N, 125.2E
 Mindanao, Philippine
 Islands
 H = 23 21 52.1
 h = about 84 km
 Mould Bay
 eP 23 34 39
 Resolute
 eP 23 35 06

JANUARY 13
 Penticton
 eP 09 01 16

JANUARY 13
 Yellowknife
 e(P) 11 52 04

JANUARY 13
 U. S. C. G. S.
 14.0S, 171.2E
 New Hebrides Islands
 region
 H = 13 43 42.1
 h = about 634 km
 Penticton
 iP 13 55 26

JANUARY 13
 U. S. C. G. S.
 49.7S, 163.7E
 Auckland Island region
 H = 16 21 13.1
 h = about 33 km
 Alert
 eP' 16 40 44

DOMINION OBSERVATORIES

JANUARY 14
U. S. C. G. S.
62.2N, 150.1W
Central Alaska
H = 02 18 02.0
h = about 91 km
Banff
eP 02 22 46
Mould Bay
eP 02 22 01 d
Penticton
iP 02 22 42
Resolute
eP 02 23 01
Shawinigan Falls
eP 02 26 08
Yellowknife
eP 02 21 46 c

JANUARY 14
Mould Bay
eP 13 51 10 c
Resolute
eP 13 51 46 c
JANUARY 14
U. S. C. G. S.
45.7N, 26.6E
Romania
H = 18 33 25.3
h = about 132 km
Alert
eP 18 41 28
Mould Bay
eP 18 42 54
Resolute
eP 18 42 36
Yellowknife
eP 18 44 09

JANUARY 15
U. S. C. G. S.
13.4N, 145.3E
Mariana Islands
H = 02 32 39.9
h = about 38 km
Alert
eP 02 45 05
Banff
eP 02 45 14
Mould Bay
eP 02 44 37 c
Penticton
eP 02 45 04
Resolute
eP 02 45 11 c
Victoria
eP 02 44 56
Yellowknife
iP 02 45 01 c

JANUARY 14
U. S. C. G. S.
21.2S, 169.3E
Loyalty Islands
H = 11 19 47.5
h = about 33 km
Ottawa
eP' 11 38 39
Penticton
eP 11 33 06

JANUARY 14
Yellowknife
e 21 49 44

JANUARY 15
Mould Bay
eP 03 23 10

JANUARY 14
Mould Bay
eP 12 42 33

JANUARY 15
U. S. C. G. S.
68.9N, 17.1W
Denmark Strait
H = 01 32 20.0
h = about 33 km
Alert
eP 01 36 06
Banff
eP 01 40 44
Mould Bay
eP 01 38 06
S 01 42 56
Penticton
eP 01 41 08

JANUARY 15
Mould Bay
eP 03 33 28
Resolute
eP 03 33 05 (d)
Schefferville
eP 03 31 02

JANUARY 14
Resolute
eP 12 43 09 c

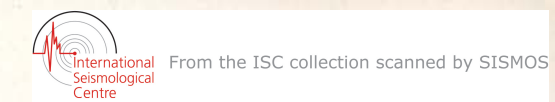
JANUARY 15
Resolute
eP 01 37 25 d
Yellowknife
eP 01 39 (23)

JANUARY 15
Mould Bay
eP 04 47 47

JANUARY 14
Mould Bay
eP 12 47 20 c
Resolute
eP 12 47 56 c
Yellowknife
eP 12 48 12

JANUARY 15
U. S. C. G. S.
69.0N, 16.6W
Jan Mayen Island region
H = 05 23 10.4
h = about 33 km
Alert
eP 05 26 56

SEISMOLOGICAL BULLETIN - 1963



Mould Bay
eP 05 28 55
S 05 33 44
Penticton
eP 05 31 (56)
Resolute
eP 05 28 15 d
Schefferville
eP 05 28 46
Yellowknife
eP 05 30 13 c

Mould Bay
eP 14 01 19 d
Resolute
eP 14 00 55 d
Yellowknife
eP 13 59 53 c
JANUARY 15
Mould Bay
eP 14 17 (13)

JANUARY 15
U. S. C. G. S.
17.1S, 179.6W
Fiji Islands
H = 17 39 19.2
h = about 276 km
Banff
eP 17 51 40
Penticton
iP 17 51 26

JANUARY 15
Mould Bay
eP 11 59 40
i 12 00 30
Yellowknife
eP 12 00 04

JANUARY 15
Mould Bay
eP 14 49 31

JANUARY 15
U. S. C. G. S.
38.2N, 75.8E
Northern India
H = 19 11 09
h = about 153 km
Mould Bay
iP 19 21 35 c

JANUARY 15
U. S. C. G. S.
36.7N, 102.1E
Tsinghai, China
H = 12 22 29.9
h = about 33 km
Mould Bay
eP 12 33 (05)

JANUARY 15
U. S. C. G. S.
36.0N, 23.9E
Mediterranean Sea
H = 15 04 15.0
h = about 81 km
Alert
eP 15 13 32 c
Banff
eP 15 16 50 c
Halifax
iP 15 14 44 c
Mould Bay
eP 15 14 51 c
Resolute
eP 15 14 32
Yellowknife
iP 15 15 56 c

JANUARY 15
U. S. C. G. S.
20.5S, 177.9W
Fiji Islands
H = 19 26 34.3
h = about 496 km
Alert
eP' 19 44 14 c
Banff
eP 19 38 39
Mould Bay
eP 19 39 (32)
eP' 19 43 53
Penticton
iP 19 38 25 d
Resolute
eP' 19 44 02 c
Schefferville
eP' 19 44 24
Shawinigan Falls
iP' 19 44 17
Victoria
eP 19 38 13 d
Yellowknife
iP 19 39 09 c

JANUARY 15
U. S. C. G. S.
24.9N, 122.0E
Near coast of Formosa
H = 13 08 57.2
h = about 47 km
Mould Bay
eP 13 20 19
Yellowknife
eP 13 21 13

JANUARY 15
Mould Bay
eP 15 47 31

JANUARY 15
U. S. C. G. S.
11.5N, 87.8W
Off west coast of
Nicaragua
H = 13 50 28.3
h = about 33 km

DOMINION OBSERVATORIES

JANUARY 15
U. S. C. G. S.
31. 3S, 13. 4W
South Atlantic Ocean
H = 22 17 50.9
h = about 33 km
Yellowknife
eP' 22 36 43

JANUARY 15
76. 9°N, 117. 5°W
Prince Patrick Island,
N. W. T.
H = 23 59 01.3
Mag 3. 8
Mould Bay
P₁ 23 59 17 D,N,E
S₁ 23 59 29
D = 98 km
Resolute
P_n 24 00 27.0
S_n 24 01 35
D = 660 km

JANUARY 16
U. S. C. G. S.
54. 0S, 133. 5W
South Pacific Ocean
H = 03 14 05.9
h = about 33 km
Mould Bay
eP' 03 33 11

JANUARY 16
U. S. C. G. S.
7. 5N, 74. 5W
Colombia
H = 03 52 56.1
h = about 33 km
Mould Bay
eP 04 04 11
Yellowknife
iP 04 03 10 c

JANUARY 16
U. S. C. G. S.
9. 7N, 93. 9E
Nicobar Islands
H = 04 49 11.9
h = about 70 km
Mould Bay
eP 05 02 14

JANUARY 16
Penticton
eP 05 36 40

JANUARY 16
U. S. C. G. S.
51. 3N, 179. 9W
Andreanof Islands,
Aleutian Islands
H = 05 44 52.3
h = about 38 km
Alert
iP 05 52 49
Banff
eP 05 52 16
Mould Bay
iP 05 51 35 c

JANUARY 16
Penticton
iP 05 52 05 c
Resolute
eP 05 52 26 c
Schefferville
eP 05 54 59 c
Shawinigan Falls
eP 05 55 23 d
Victoria
eP 05 51 50 c
Yellowknife
iP 05 51 49 c

JANUARY 16
U. S. C. G. S.
54. 2N, 34. 9W
1300 km southwest
of Iceland
H = 06 38 40.4
h = about 33 km

Halifax
eP 06 43 19
Mould Bay
eP 06 45 48
Schefferville
eP 06 42 52
Shawinigan Falls
eP 06 44 02
Yellowknife
eP 06 46 12

JANUARY 16
48°16'N, 122°48'W
In the vicinity of
Whidbey Island, U. S. A.
H = 06 43 13
Mag 2. 3
Alberni
eP_n 06 43 43.6
D = 197 km
Penticton
eP_n 06 43 53
D = 273 km
Victoria
eP₁ 06 43 22.9
eS₁ 06 43 30.7
D = 63 km

JANUARY 16
U. S. C. G. S.
54. 3N, 35. 2W
1300 km southwest
of Iceland
H = 06 44 56.8
h = about 33 km
Alert
eP 06 50 58
Halifax
eP 06 49 35
Mould Bay
eP 06 52 03
Ottawa
eP 06 50 39
Resolute
eP 06 51 11
Schefferville
eP 06 49 08

SEISMOLOGICAL BULLETIN - 1963

Shawinigan Falls
eP 06 50 17
Yellowknife
eP 06 52 29

JANUARY 16
U. S. C. G. S.
54. 4N, 35. 0W
1300 km southwest
of Iceland
H = 12 32 37.6
h = about 33 km
Halifax
eP 12 37 21
Mould Bay
eP 12 39 45
Penticton
eP 12 41 26
Resolute
eP 12 38 51 d
Shawinigan Falls
eP 12 37 58
Yellowknife
eP 12 40 09

JANUARY 16
U. S. C. G. S.
24. 0S, 68. 2W
Northern Chile
H = 15 09 16.6
h = about 150 km
Penticton
iP 15 21 41 d
Yellowknife
iP 15 22 16 d

JANUARY 16
U. S. C. G. S.
36. 3N, 70. 3E
Hindu Kush
H = 15 30 10.0
h = about 243 km
Mould Bay
eP 15 40 41 c
Yellowknife
eP 15 42 00

JANUARY 16
Mould Bay
eP 16 16 07
i 16 16 09
Penticton
iP 16 17 30
Resolute
eP 16 16 49 c
Yellowknife
iP 16 17 01 c

JANUARY 16
U. S. C. G. S.
4. 2S, 76. 2W
Peru
H = 20 20 56
h = about 190 km
Penticton
iP 20 31 22

JANUARY 16
U. S. C. G. S.
11. 1S, 111. 6E
South of Java
H = 21 08 38.8
h = about 94 km
Halifax
eP' 21 28 14
London
iP' 21 28 13 (c)
Penticton
eP' 21 27 26
Shawinigan Falls
eP' 21 28 07
Yellowknife
eP' 21 27 19

JANUARY 17
U. S. C. G. S.
52. 3N, 152. 5E
Sea of Okhotsk
H = 03 52 42.2
h = about 454 km
Banff
eP 04 01 16

Mould Bay
eP 03 59 33 d
Penticton
iP 04 01 11

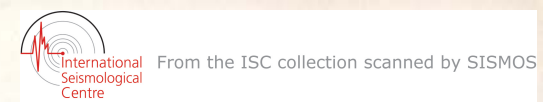
JANUARY 17
U. S. C. G. S.
10. 6S, 78. 7W
Off coast of Peru
H = 04 22 22.5
h = about 46 km
Mould Bay
eP 04 35 17
Yellowknife
eP 04 34 16 c

JANUARY 17
U. S. C. G. S.
14. 0N, 120. 6E
Luzon, Philippine
Islands
H = 05 56 54.8
h = about 207 km
Mould Bay
eP 06 09 00 c
Resolute
eP 06 09 26 c
Yellowknife
iP 06 09 44

JANUARY 17
Alert
e(P) 12 20 19

JANUARY 17
Alert
i 13 50 17

JANUARY 17
Yellowknife
eP 17 50 50



DOMINION OBSERVATORIES

JANUARY 17
Mould Bay
eP 18 12 (56)

JANUARY 17
U. S. C. G. S.
7. 6S, 75. 3W
Peru
H = 19 31 12. 6
h = about 201 km
Mould Bay
eP 19 43 39 d
Penticton
iP 19 41 57
Yellowknife
iP 19 42 39 d

JANUARY 17
U. S. C. G. S.
25. 6N, 125. 2E
Ryukyu Islands
H = 20 41 14. 8
h = about 140 km
Alert
iP 20 52 24 d
Mould Bay
iP 20 52 18 d
S 21 01 27
Penticton
eP 20 53 (40)
Resolute
iP 20 52 51 d
Schefferville
eP 20 54 42 d
Victoria
eP 20 53 32 d
Yellowknife
iP 20 53 11 d

JANUARY 17
Penticton
eP 22 54 44
Victoria
eP 22 54 57

JANUARY 18
Mould Bay
eP 00 29 (42)

JANUARY 18
U. S. C. G. S.
33. 1N, 135. 8E
South of Honshu,
Japan
H = 03 12 05. 7
h = about 425 km
Alert
iP 03 21 59 c
i 03 22 55
Mould Bay
iP 03 21 41 c
Resolute
iP 03 22 19 c
Victoria
eP 03 22 49 c
Yellowknife
iP 03 22 30 c

JANUARY 18
Mould Bay
eP 08 06 23

JANUARY 18
Resolute
eP 13 47 38 d

JANUARY 18
Canadian Arctic
H = 14 59 22. 2
Mag 1. 5
Resolute
P₁ 14 59 34
S₁ 14 59 43
D = 74 km

JANUARY 18
H = 16 13 05
Mag 2. 9
Penticton
iP_n 16 13 49. 7
iS_n 16 14 28. 2
D = 315 km

JANUARY 18
H = 20 49 12
Mag 2. 9
Penticton
iP_n 20 49 58. 2
iS_n 20 50 37. 5
D = 322 km

JANUARY 18
H = 21 24 28
Port Hardy
iP_n 21 25 02. 5
iS_n 21 25 30. 8
D = 231 km

JANUARY 19
U. S. C. G. S.
38. 8N, 74. 8E
Sinkiang Province,
China
H = 02 35 06. 8
h = about 33 km
Mould Bay
eP 02 45 43 c
Yellowknife
iP 02 47 07 d

JANUARY 19
Yellowknife
eP 03 45 (23)

JANUARY 19
Yellowknife
e 04 26 38

SEISMOLOGICAL BULLETIN - 1963

JANUARY 19
Mould Bay
eP 05 56 33

JANUARY 19
H = 05 57 21
In Queen Charlotte
Sound
Mag 3. 5
Alberni
eP_n 05 58 39. 8
Penticton
eP_n 05 59 20
Port Hardy
iP_n 05 57 49. 3
iS_n 05 58 11. 0
D = 178 km
Victoria
eP_n 05 58 47
Yellowknife
eP 06 00 49

JANUARY 19
Mould Bay
eP 06 28 30

JANUARY 19
U. S. C. G. S.
40. 9N, 142. 4E
South of Hokkaido,
Japan
H = 07 22 24. 5
h = about 33 km
Alert
eP 07 32 02
Mould Bay
eP 07 31 36 c
Penticton
eP 07 33 02
Resolute
eP 07 32 19 (c)
Yellowknife
eP 07 32 29 c

JANUARY 19
Penticton
eP 11 54 33

JANUARY 19
Penticton
eP 12 55 28

JANUARY 19
Penticton
eP 14 40 59

JANUARY 19
Penticton
eP 19 02 12

JANUARY 19
U. S. C. G. S.
16. 9N, 85. 0W
Off north coast
of Honduras
H = 19 29 03. 6
h = about 33 km
Mould Bay
eP 19 39 22

JANUARY 19
U. S. C. G. S.
17. 0N, 85. 0W
Off north coast of
Honduras
H = 19 50 59. 4
h = about 33 km
Mould Bay
eP 20 01 17
Penticton
eP 19 58 55

JANUARY 20
Mould Bay
eP 02 56 (18)

JANUARY 20
U. S. C. G. S.
51. 9N, 173. 2W
Andreanof Islands,
Aleutian Islands
H = 08 56 06. 2
h = about 30 km

Alert
eP 09 03 53
Banff
eP 09 02 59
Mould Bay
eP 09 02 30
i 09 05 18
Ottawa
eP 09 06 11
Penticton
iP 09 02 45
Resolute
eP 09 03 22 (d)
Shawinigan Falls
eP 09 06 16 d
Yellowknife
eP 09 02 35

JANUARY 20
50. 3°N, 129. 6°W
West of Vancouver Island
H = 10 56 48
Mag 3. 9

Alberni
eP_n 10 57 38. 7
D = 357 km

Banff
eP_n 10 59 05
D = 1068 km

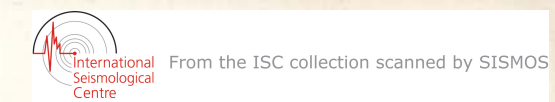
Penticton
eP_n 10 58 25
D = 740 km

Port Hardy
iP₁ 10 57 15. 0
iS₁ 10 57 35. 3
D = 166 km

Victoria
eP_n 10 57 56
D = 502 km

Yellowknife
eP 11 00 18

JANUARY 20
U. S. C. G. S.
26. 4N, 110. 7W
Gulf of California
H = 13 16 27. 0
h = about 27 km
Penticton
eP 13 21 41



DOMINION OBSERVATORIES

JANUARY 20
Penticton
eP 15 01 49

JANUARY 20
H = 19 19 08
Port Hardy
iP₁ 19 19 34.8
iS₁ 19 19 55.3
D = 168 km

JANUARY 20
Penticton
eP 19 30 25

JANUARY 21
U. S. C. G. S.
53.3N, 157.4E
Southern Kamchatka
H = 04 25 04.6
h = about 33 km
Mould Bay
eP 04 32 16 d
Penticton
iP 04 33 50
Resolute
eP 04 33 08 d
Yellowknife
eP 04 33 08

JANUARY 21
Penticton
eP 05 52 53

JANUARY 21
U. S. C. G. S.
60.5S, 27.2W
Sandwich Islands
region
H = 07 00 45
h = about 33 km
Alert
eP 14 53 (24)
Mould Bay
eP 14 51 36
i 14 51 39

JANUARY 21
U. S. C. G. S.
59.5N, 151.2W
Kenai Peninsula,
Alaska
H = 14 47 05.4
h = about 67 km
Alert
eP 14 53 (24)
Mould Bay
eP 14 51 36
i 14 51 39

Mould Bay
eP' 07 20 (22)
i 07 20 25
Penticton
eP' 07 19 56
Resolute
eP' 07 20 (07)
Yellowknife
iP' 07 20 09

JANUARY 21
U. S. C. G. S.
9.3N, 83.0W
Panama-Costa Rica
border
H = 07 38 56.9
h = about 88 km
Mould Bay
eP 07 49 58 d
Penticton
iP 07 47 47
Resolute
eP 07 49 32 (d)

JANUARY 21
U. S. C. G. S.
3.0S, 136.2E
Western New Guinea
H = 10 35 39.0
h = about 57 km
Mould Bay
eP 10 49 02 d

Penticton
iP 14 51 44
Resolute
eP 14 52 29 d
Yellowknife
eP 14 51 11

JANUARY 21
U. S. C. G. S.
18.0S, 175.4W
Tonga Islands
H = 18 35 41.5
h = about 64 km
Penticton
iP 18 48 05

JANUARY 22
48°53'N, 122°13'W
H = 04 13 46
Mag 2.2
Northeast of Bellingham,
U. S. A.
Alberni
iP_n 04 14 15.4
D = 199 km
Penticton
eP_n 04 14 16.6
eS_n 04 14 44.6
D = 209 km
Port Hardy
e 04 14 50.0
D = 425 km
Victoria
iP₁ 04 13 58.5
iS₁ 04 14 08.8
D = 91 km

JANUARY 22
U. S. C. G. S.
31.5N, 89.3E
Tibet
H = 04 55 16.4
h = about 33 km
Mould Bay
eP 05 06 32
Yellowknife
eP 05 07 46

SEISMOLOGICAL BULLETIN - 1963

JANUARY 22
Yellowknife
eP 08 12 50 d

JANUARY 22
U. S. C. G. S.
11.3S, 74.7W
Peru
H = 08 32 33.2
h = about 33 km
Mould Bay
eP 08 45 37
Penticton
eP 08 43 58
Yellowknife
eP 08 44 38

JANUARY 22
U. S. C. G. S.
48.3N, 155.2E
Kurile Islands
H = 16 07 14.0
h = about 50 km
Mould Bay
eP 16 15 07
Resolute
eP 16 15 57 (c)
Yellowknife
eP 16 20 23

JANUARY 22
U. S. C. G. S.
48.4N, 155.2E
Kurile Islands
H = 16 11 42.1
h = about 50 km
Mould Bay
iP 16 19 35
Resolute
e(P) 16 20 25 (c)
Yellowknife
eP 16 15 56 d

JANUARY 23
U. S. C. G. S.
48.9N, 156.0E
Kurile Islands
H = 04 39 23.3
h = about 50 km
Alert
eP 04 47 56
Mould Bay
eP 04 47 12
Resolute
eP 04 48 02 d
Yellowknife
iP 04 47 59 (d)

JANUARY 23
Mould Bay
eP 05 09 21

JANUARY 23
Mould Bay
eP 13 06 21
i 13 06 28

JANUARY 23
Mould Bay
eP 17 40 12 c

JANUARY 23
Penticton
eP 20 04 06

JANUARY 23
Mould Bay
eP 21 22 02

JANUARY 23
Victoria
iP 22 25 04 d

JANUARY 24
U. S. C. G. S.
8.4N, 60.8W
Near coast of
Venezuela
H = 02 52 09.0
h = about 66 km
Alert
eP 03 03 39 (d)
Banff
eP 03 02 23
Mould Bay
eP 03 03 44 d
Ottawa
eP 02 59 32
Penticton
eP 03 02 36
Schefferville
eP 03 00 34 d
Shawinigan Falls
iP 02 59 36 d
Victoria
eP 03 02 45
Yellowknife
iP 03 02 52

JANUARY 24
Mould Bay
eP 04 09 (12)

JANUARY 24
U. S. C. G. S.
6.0S, 112.6E
Java Sea
H = 09 29 11.6
h = about 493 km
Penticton
eP' 09 47 01

DOMINION OBSERVATORIES

JANUARY 24
U.S.C.G.S.
15.2S, 173.6W
Tonga Islands region
H = 12 09 01.2
h = about 33 km
Banff
eP 12 21 35
Mould Bay
eP 12 22 (30)
Penticton
eP 12 21 07
Victoria
eP 12 20 56

JANUARY 24
Mould Bay
eP 15 06 50

JANUARY 24
U.S.C.G.S.
28.6N, 56.4E
Southern Iran
H = 15 42 23.5
h = about 100 km
Mould Bay
eP 15 53 56 c

JANUARY 24
Mould Bay
eP 20 26 32

JANUARY 24
Mould Bay
eP 20 40 19 d

JANUARY 24
U.S.C.G.S.
47.5N, 121.9W
King County, Washington
H = 21 43 13
h = about 33 km
Alberni
iP 21 43 53.5

Banff
eP 21 44 37
Mould Bay
eP 21 49 12
Penticton
iP 21 43 51 d
Port Hardy
eP 21 44 27
Victoria
iP 21 43 35
Yellowknife
eP 21 46 49

JANUARY 24
Mould Bay
eP 22 04 07

JANUARY 24
Alert
eP 22 40 26
i 22 43 52
Mould Bay
eP 22 40 17
i 22 45 27
Resolute
eP 22 40 44
Yellowknife
eP 22 40 53

JANUARY 24
U.S.C.G.S.
8.0N, 126.6E
Near east coast
of Mindanao,
Philippine Islands
H = 22 44 16.5
h = about 44 km
Mould Bay
eP 22 57 03

JANUARY 24
U.S.C.G.S.
7.7N, 126.0E
Near east coast of
Mindanao, Philippine
Islands
H = 23 22 16.2
h = about 150 km
Mould Bay
eP 23 34 51

JANUARY 25
U.S.C.G.S.
61.9N, 148.9W
Southern Alaska
H = 00 05 34.8
h = about 78 km
Banff
eP 00 10 15

Mould Bay
eP 00 09 35
Penticton
eP 00 10 09
Resolute
eP 00 10 (31)

JANUARY 25
U.S.C.G.S.
20.3S, 169.6E
Loyalty Islands region
H = 00 16 05.7
h = about 135 km
Mould Bay
eP' 00 34 11
Penticton
eP 00 29 06

JANUARY 25
U.S.C.G.S.
8.0N, 127.0E
Near east coast of
Mindanao, Philippine
Islands
H = 04 10 36.2
h = about 70 km
Mould Bay
eP 04 23 20

SEISMOLOGICAL BULLETIN - 1963

JANUARY 25
Mould Bay
eP 05 16 03

JANUARY 25
Mould Bay
eP 09 02 04

JANUARY 25
Mould Bay
eP 09 14 40

JANUARY 25
Mould Bay
eP 09 27 27

JANUARY 25
U.S.C.G.S.
21.8N, 143.8E
Mariana Islands region
H = 12 49 42.0
h = about 190 km
Alert
iP 13 01 05 c
i 13 01 56

Banff
eP 13 01 29 c
Mould Bay
iP 13 00 39 c
i 13 01 25
Penticton
iP 13 01 20 c
Resolute
iP 13 01 14 c
Victoria
eP 13 01 08 c
Yellowknife
iP 13 01 10 c

JANUARY 25
U.S.C.G.S.
51.4N, 178.1E
Rat Islands,
Aleutian Islands
H = 13 01 53.3
h = about 33 km
Mould Bay
eP 13 08 39

JANUARY 25
Mould Bay
eP 16 07 01
i 16 07 02

JANUARY 26
Alert
eP 06 07 22 (c)
Mould Bay
eP 06 07 34 d

JANUARY 26
Canadian Arctic
H = 06 22 01.6
h = 20 km
Mag 2.4
Resolute
P_n 06 22 36.3
P₁ 06 22 40.9
i 06 22 41.7
S_n 06 23 03
S₁ 06 23 10.5
D = 242 km

JANUARY 26
Penticton
eP 07 50 14

OCTOBER 26
Mould Bay
eP 07 56 56

JANUARY 26
Penticton
eP 09 52 36

JANUARY 26
Dominion Observatory
44.1°N, 129.1°W
Pacific Ocean about
400 miles south of
Vancouver Island,
British Columbia
H = 09 58 52

Banff
eP_n 10 01 (37)
D = 1290 km
Mould Bay
P 10 05 20
D = 3570 km

Penticton
iP_n 10 00 53
D = 950 km
Port Hardy
eP_n 10 00 29
D = 750 km

Resolute
eP 10 05 36
D = 3770 km
Victoria
iP_n 10 00 18
iS_n 10 01 25
D = 660 km
Yellowknife
eP_n 10 03 24
D = 2205 km

JANUARY 26
Mould Bay
eP 10 14 25

JANUARY 26
Resolute
e(P) 12 32 28

JANUARY 26
Mould Bay
eP 13 25 58

DOMINION OBSERVATORIES

JANUARY 26
Mould Bay
eP 14 54 46

JANUARY 26
Mould Bay
eP 16 54 12

JANUARY 26
Mould Bay
eP 16 58 (49)

JANUARY 26
Mould Bay
eP 17 21 (50)

JANUARY 26
U.S.C.G.S.
15.7S, 172.9W
Tonga Islands region
H = 19 12 02.5
h = about 33 km
Mould Bay
eP 19 25 37
Penticton
iP 19 24 10 d

JANUARY 26
Mould Bay
eP 19 28 31

JANUARY 26
U.S.C.G.S.
4.6N, 76.5W
Colombia
H = 21 20 41.2
h = about 92 km
Mould Bay
eP 21 32 15 d
Penticton
iP 21 30 24 c
Schefferville
iP 21 29 33 c
Yellowknife
iP 21 31 06 d

JANUARY 26
Mould Bay
eP 22 36 42

JANUARY 27
U.S.C.G.S.
25.6N, 128.3E
Ryukyu Islands
H = 01 06 55.4
h = about 61 km
Alert

eP 01 18 14
i 01 18 30
Banff
eP 01 19 25
Mould Bay
iP 01 18 04 d
Penticton
iP 01 19 21
Resolute
iP 01 18 38 d
Victoria
eP 01 19 12 d
Yellowknife
iP 01 18 54 d

JANUARY 27
U.S.C.G.S.
66.9N, 162.4W
Seeward Peninsula,
Alaska
H = 01 44 34.2
h = about 33 km
Mould Bay
eP 01 48 18
Yellowknife
eP 01 49 12

JANUARY 27
U.S.C.G.S.
31.6N, 115.7W
Baja California
H = 03 00 38.7
h = about 33 km
Mag 4 3/4 (PAS)
Mould Bay
eP 03 08 54 d

Penticton
eP 03 04 52
Victoria
eP 03 04 51

JANUARY 27
U.S.C.G.S.
59.4N, 153.4W
Gulf of Alaska
H = 11 47 36.3
h = about 94 km
Alert
eP 11 53 53
i 11 54 13
Banff
eP 11 52 31
Mould Bay
eP 11 52 10 d
Penticton
eP 11 52 22
Resolute
iP 11 53 02 d
Shawinigan Falls
e 11 56 21
Victoria
eP 11 52 07
Yellowknife
iP 11 51 50 d

JANUARY 27
Mould Bay
eP 13 48 34

JANUARY 27
U.S.C.G.S.
44.3N, 114.5W
Idaho
H = 15 24 46.5
h = about 31 km
Alert
eP 15 32 33
Banff
eP 15 26 28
London
eP 15 30 02
i 15 30 12

SEISMOLOGICAL BULLETIN - 1963

Mould Bay
eP 15 31 13 d
Penticton
iP 15 26 11
Resolute
eP 15 31 09 d
Schefferville
eP 15 31 13
Victoria
eP 15 26 35
Yellowknife
iP 15 28 57 c

JANUARY 27
U.S.C.G.S.
26.2N, 127.9E
Ryukyu Islands
H = 15 38 15.7
h = about 109 km
Mould Bay
iP 15 49 16 c
Yellowknife
iP 15 50 18

JANUARY 27
Penticton
eP 16 36 26

JANUARY 27
Canadian Arctic
H = 18 01 40
Yellowknife
eP1 18 02 01
S1 18 02 17
D = 131 km

JANUARY 27
U.S.C.G.S.
5.2S, 152.3E
New Britain
H = 18 46 14.6
h = about 72 km
Banff
eP 18 59 33

Mould Bay
eP 18 59 28
Penticton
eP 18 59 07
Victoria
eP 18 59 20
Yellowknife
eP 18 59 36

JANUARY 27
Yellowknife
eP 19 41 58

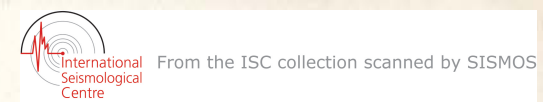
JANUARY 27
U.S.C.G.S.
41.2N, 49.8E
Caspian Sea near
Azerbaijan SSR
H = 19 35 14.3
h = about 33 km
Alert
eP 19 44 24
S 19 51 (47)

Banff
eP 19 47 58
London
iP 19 47 49
Mould Bay
iP 19 45 37 d
Ottawa
eP 19 47 27 d
Penticton
eP 19 48 09
Resolute
eP 19 45 33
Schefferville
eP 19 46 25 d
Victoria
eP 19 48 14
Yellowknife
iP 19 46 58 d

JANUARY 28
Yellowknife
e 01 30 43

JANUARY 28
U.S.C.G.S.
10.8S, 76.7W
Central Peru
H = 02 12 14.3
h = about 105 km
Alert
iP 02 25 19
Banff
eP 02 23 17
Mould Bay
iP 02 25 06 c
Penticton
iP 02 23 21 c
Resolute
eP 02 24 44 c
Schefferville
eP 02 22 52 c
Victoria
eP 02 23 28 c
Yellowknife
iP 02 24 06

JANUARY 28
U.S.C.G.S.
43.5N, 144.6E
Near south coast of
Hokkaido, Japan
H = 04 05 30.9
h = about 33 km
Alert
iP 04 14 48
Banff
eP 04 15 56
Penticton
eP 04 15 46
Resolute
eP 04 15 04
Schefferville
eP 04 17 30
Victoria
eP 04 15 38
Yellowknife
eP 04 15 14



DOMINION OBSERVATORIES

JANUARY 28
 U.S.C.G.S.
 2.6S, 149.9E
 New Britian
 H = 12 12 19.8
 h = about 33 km
 Mag 6 1/2 (PAS)
 Alert
 eP 12 25 58
 Banff
 eP 12 25 41
 Mould Bay
 eP 12 25 30
 Penticton
 eP 12 25 29
 Resolute
 eP 12 26 (00)
 Yellowknife
 eP 12 25 40

JANUARY 28
 U.S.C.G.S.
 54.7N, 161.6W
 Alaska Peninsula
 H = 13 00 50.7
 h = about 33 km
 Mag 6 - 6 1/2 (PAS)
 Alert
 eP 13 08 03 c
 Banff
 eP 13 06 38
 Halifax
 iP 13 10 51 (d)
 London
 iP 13 09 54
 Mould Bay
 iP 13 06 29 c
 Ottawa
 iP 13 10 03
 Penticton
 eP 13 06 22
 Resolute
 eP 13 07 19 c
 Schefferville
 iP 13 09 48 d
 Shawinigan Falls
 eP 13 10 08

Victoria
 eP 13 06 07 d
 Yellowknife
 iP 13 06 15 c

JANUARY 28
 Mould Bay
 eP 13 35 03
 Yellowknife
 eP 13 35 55

JANUARY 28
 Mould Bay
 eP 13 39 10
 Yellowknife
 eP 13 39 14

JANUARY 28
 U.S.C.G.S.
 55.8N, 162.9W
 Alaska Peninsula
 H = 13 49 54.7
 h = about 33 km
 Mould Bay
 eP 13 55 26
 Yellowknife
 eP 13 55 11

JANUARY 28
 U.S.C.G.S.
 19.7S, 178.1W
 Fiji Islands
 H = 13 50 28.3
 h = about 587 km
 Banff
 eP 14 02 23
 Penticton
 eP 14 02 04

JANUARY 28
 U.S.C.G.S.
 31.2S, 177.7W
 Kermadec Islands
 H = 16 07 19
 h = about 33 km
 Alert
 iP' 16 26 13
 Mould Bay
 eP' 16 25 52

JANUARY 28
 Mould Bay
 eP 16 32 18

JANUARY 29
 U.S.C.G.S.
 5.8N, 78.4W
 South of Panama
 H = 04 31 29.6
 h = about 31 km
 Yellowknife
 iP 04 41 51 d

JANUARY 29
 U.S.C.G.S.
 40.3N, 144.2 E
 Off coast of Honshu,
 Japan
 H = 08 01 26.8
 h = about 27 km
 Mould Bay
 eP 08 10 42
 Resolute
 eP 08 11 25 d
 Yellowknife
 eP 08 11 31

JANUARY 29
 U.S.C.G.S.
 49.7N, 154.9E
 Kurile Islands
 H = 09 21 14.3
 h = about 126 km
 Alert
 iP 09 29 32 c
 iS 09 36 10

SEISMOLOGICAL BULLETIN - 1963

Banff
 eP 09 30 22 c
 Halifax
 iP 09 33 12 c
 London
 iP 09 32 46 c
 Mould Bay
 iP 09 28 50 c
 iS 09 34 55
 Ottawa
 iP 09 32 45 c
 Penticton
 iP 09 30 16
 Resolute
 iP 09 29 39 c
 Schefferville
 iP 09 32 15 c
 Shawinigan Falls
 iP 09 32 46 c
 Victoria
 iP 09 30 04 c
 Yellowknife
 iP 09 29 41 c

JANUARY 29
 Mould Bay
 eP 12 21 17
 Yellowknife
 eP 12 20 42

JANUARY 29
 H = 18 45 37
 Mag 1.6
 Penticton
 iP₁ 18 46 04.6
 iS₁ 18 46 25.7
 D = 172 km

JANUARY 29
 Mould Bay
 iP 19 14 00 c

JANUARY 29
 Penticton
 eP 20 19 25

JANUARY 29
 U.S.C.G.S.
 21.5S, 68.6W
 Chile-Bolivia border
 H = 20 33 27.0
 h = about 73 km
 Banff
 iP 20 45 47 d
 Halifax
 eP 20 44 12
 London
 iP 20 44 04 d
 Mould Bay
 eP 20 47 17
 Penticton
 iP 20 45 51
 Schefferville
 eP 20 45 12 d
 Shawinigan Falls
 iP 20 44 23 d
 Yellowknife
 iP 20 46 26 d

JANUARY 29
 U.S.C.G.S.
 12.9N, 143.2E
 Mariana Islands
 H = 21 07 57.7
 h = about 144 km
 Alert
 eP 21 20 (14)
 Mould Bay
 eP 21 19 (46)
 Yellowknife
 eP 21 20 14

JANUARY 29
 Yellowknife
 eP 21 45 38

JANUARY 29
 U.S.C.G.S.
 52.7N, 168.4W
 Fox Islands,
 Aleutian Islands
 H = 22 50 22.7
 h = about 33 km

Mould Bay
 eP 22 56 30

JANUARY 30
 Alert
 eP 02 03 (29)
 Mould Bay
 eP 02 03 39
 Yellowknife
 eP 02 03 20

JANUARY 30
 U.S.C.G.S.
 54.8N, 161.6W
 Alaska Peninsula
 H = 04 39 56.3
 h = about 33 km
 Alert
 eP 04 47 08 c
 Banff
 eP 04 45 43
 Mould Bay
 eP 04 45 36 c
 Ottawa
 eP 04 49 07
 Penticton
 eP 04 45 30
 Resolute
 eP 04 46 23 c
 Schefferville
 eP 04 48 53 (c)
 Shawinigan Falls
 eP 04 49 12
 Victoria
 eP 04 45 13 c
 Yellowknife
 iP 04 45 21 c

JANUARY 30
 U.S.C.G.S.
 44.9N, 110.8W
 Yellowstone National
 Park, Wyoming
 H = 05 51 00.9
 h = about 33 km

DOMINION OBSERVATORIES

Penticton eP 05 52 59	Banff eP' 10 29 08	JANUARY 30 Mould Bay eP 11 50 (49)
Yellowknife eP 05 55 14	London iP' 10 28 48	Yellowknife iP 11 50 37 d
	Mould Bay eP' 10 29 31	
JANUARY 30 U.S.C.G.S. 00.2N, 123.4E	Ottawa eP' 10 28 (36)	JANUARY 30 Mould Bay eP 12 44 (04)
Northern Celebes H = 06 08 25.4 h = about 33 km	Penticton eP' 10 29 09	Yellowknife eP 12 43 51
Mould Bay eP 06 21 52	Resolute eP' 10 29 15	
	Schefferville eP' 10 28 40	
	Victoria eP' 10 29 13	JANUARY 30 Mould Bay eP 13 02 14
JANUARY 30 Penticton iP 07 15 18	Yellowknife eP' 10 29 06	Yellowknife eP 13 02 04
JANUARY 30 Yellowknife eP 08 11 28	JANUARY 30 U.S.C.G.S. 29.7N, 80.5E	JANUARY 30 Penticton eP 13 15 29
	India-Nepal border H = 10 33 59.1 h = about 57 km	
JANUARY 30 U.S.C.G.S. 50.8N, 157.4E	Mould Bay eP 10 45 27	JANUARY 30 Penticton eP 13 46 26
Near coast of southern Kamchatka H = 09 51 23.7 h = about 31 km	Yellowknife iP 10 46 41 c	
Mould Bay eP 09 58 55		JANUARY 30 Mould Bay eP 14 51 (03)
Resolute eP 09 59 45 (d)	JANUARY 30 Mould Bay eP 11 04 42	Yellowknife iP 14 51 06 d
	Yellowknife eP 11 04 32	
JANUARY 30 U.S.C.G.S. 55.6S, 28.3W	JANUARY 30 Yellowknife e 11 07 58	JANUARY 30 Yellowknife eP 15 35 58
Sandwich Islands region H = 10 10 04.1 h = about 33 km		
Mag 6 1/2 (PAS)	JANUARY 30 Mould Bay eP 11 43 (10)	JANUARY 30 Mould Bay eP 15 56 (54)
Alert eP' 10 29 (19)	Yellowknife eP 11 42 56	Resolute e(P) 15 56 (52)
i 10 29 34		

SEISMOLOGICAL BULLETIN - 1963

JANUARY 30 Mould Bay eP 16 37 (09)	JANUARY 31 Mould Bay eP 01 02 00	JANUARY 31 Mould Bay eP 07 40 32
Yellowknife eP 16 37 04		
JANUARY 30 Yellowknife eP 16 43 15	JANUARY 31 Penticton eP 02 56 47	JANUARY 31 Resolute e(P) 09 55 06
JANUARY 30 Penticton eP 19 18 19	JANUARY 31 U.S.C.G.S. 63.5N, 149.4W	JANUARY 31 U.S.C.G.S. 54.7N, 161.7W
	Central Alaska H = 03 09 58.3 h = about 56 km	Alaska Peninsula H = 11 27 30.7 h = about 33 km
JANUARY 30 Yellowknife eP 19 35 34	Alert eP 03 15 40 c	Penticton eP 11 32 52
	London iP 03 17 55 d	Resolute eP 11 33 58 (d)
JANUARY 30 Yellowknife eP 22 03 18	Penticton eP 03 14 42	Yellowknife eP 11 32 55
	Resolute eP 03 14 42	
JANUARY 30 Yellowknife eP 22 30 29	Yellowknife eP 03 13 34	JANUARY 31 U.S.C.G.S. 35.8N, 21.9E
		Ionian Sea, west of Crete H = 15 07 00.4 h = about 33 km
JANUARY 31 50°36'N, 129°45'W	JANUARY 31 Alert eP 05 17 57	Mould Bay eP 15 17 42
Off west coast of Vancouver Island H = 00 27 33 Mag 2.5	Penticton iP 05 19 10 d	Penticton iP 15 19 53
Alberni eP _n 00 28 20.5 D = 387 km	Resolute eP 05 18 21	Resolute eP 15 17 22 (d)
Port Hardy iP ₁ 00 27 59.2 iS ₁ 00 28 19.5 D = 166 km	Schefferville eP 05 20 (17)	Schefferville eP 15 17 12
	Victoria iP 05 19 02 c	
	Yellowknife iP 05 18 40 d	JANUARY 31 U.S.C.G.S. 21.5S, 178.1W
JANUARY 31 Mould Bay eP 00 49 (49)	JANUARY 31 Penticton eP 07 28 18	Fiji Islands H = 16 21 52.8 h = about 373 km
		Penticton iP 16 34 02

DOMINION OBSERVATORIES

JANUARY 31
Mould Bay
eP 16 59 49

JANUARY 31
U.S.C.G.S.
41.4N, 50.2E
Turkmen S.S.R.
H = 17 06 04.4
h = about 33 km
Banff
iP 17 18 47 d
Mould Bay
iP 17 16 26 d
Penticton
eP 17 18 47
Resolute
eP 17 16 23 (d)
Schefferville
eP 17 17 14
Yellowknife
iP 17 17 48 d

JANUARY 31
U.S.C.G.S.
52.7N, 168.7W
Fox Islands,
Aleutian Islands
H = 18 44 00.2
h = about 33 km
Mould Bay
eP 18 50 08

JANUARY 31
Shawinigan Falls
eP 19 10 (54)

JANUARY 31
U.S.C.G.S.
54.2N, 167.5E
Bering Sea
H = 19 10 22.6
h = about 53 km
Mould Bay
eP 19 17 05 c

JANUARY 31
Mould Bay
eP 22 15 38

JANUARY 31
H = 22 54 08
Mag less than 2
Port Hardy
iP₁ 22 54 24.2
iS₁ 22 54 36.8
D = 104 km

FEBRUARY 1
Mould Bay
eP 01 26 17

FEBRUARY 1
Mould Bay
eP 08 27 (35)

FEBRUARY 1
U.S.C.G.S.
3.0S, 131.0E
Ceram Region
H = 10 16 34.1
h = about 33 km
Mould Bay
eP 10 30 05

FEBRUARY 1
Mould Bay
eP 12 38 33

FEBRUARY 1
U.S.C.G.S.
44.2N, 114.6W
Central Idaho
H = 16 38 58.3
h = about 33 km
Banff
eP 16 40 42
Mould Bay
eP 16 45 21

Penticton
eP 16 40 29
Resolute
eP 16 45 (21)
Yellowknife
eP 16 43 10

FEBRUARY 1
Resolute
eP 16 52 27

FEBRUARY 1
Mould Bay
eP 17 19 30

FEBRUARY 1
Penticton
eP 17 35 08

FEBRUARY 1
Mould Bay
eP 19 52 (25)

FEBRUARY 1
Mould Bay
eP 21 03 40

FEBRUARY 2
183 miles from London,
Ontario, probably to
the west or south
H = 02 59 43.1
Mag 2.7
London
P₁ 03 00 30.5 d
S₁ 03 01 06.5
D = 295 km

SEISMOLOGICAL BULLETIN - 1963

FEBRUARY 2
Mould Bay
eP 04 53 (04)
Schefferville
eP 04 49 56

FEBRUARY 2
Mould Bay
eP 06 01 24

FEBRUARY 2
H = 08 18 48
Mag 1.8
Penticton
iP 08 19 18.3
iS 08 19 42.2
D = 196 km

FEBRUARY 2
U.S.C.G.S.
19.7S, 174.6W
Tonga Islands
H = 11 48 20.0
h = about 77 km
Penticton
eP 12 00 45

FEBRUARY 2
Mould Bay
eP 15 04 06

FEBRUARY 2
U.S.C.G.S.
51.3N, 179.1W
Andreanof Islands,
Aleutian Islands
H = 18 01 13
h = about 33 km
Mould Bay
eP 18 07 54

FEBRUARY 2
67°50'N, 91°00'W
Keewatin Territory
about 32 miles
southwest of Pelly
Bay, N.W.T.
H = 18 38 11.8
Mag 4.6
Alert
P_n 18 41 54
S_n 18 44 44
L_g 18 46 30
D = 1740 km
Mould Bay
P_n 18 40 52.7
S_n 18 42 57.7
L_g 18 44 10
D = 1250 km
Resolute
P_n 18 39 47
S_n 18 41 05
L_g 18 41 45
D = 775 km
Schefferville
P_n 18 41 02
S_n 18 44 58
L_g 18 46 49
D = 1850 km
Yellowknife
P_n 18 40 35
D = 1250 km

FEBRUARY 2
Penticton
eP 18 48 01

FEBRUARY 2
U.S.C.G.S.
18.8N, 81.5W
Cayman Islands
H = 19 32 15.1
h = about 71 km
Mould Bay
eP 19 42 20

FEBRUARY 2
U.S.C.G.S.
13.9N, 92.1W
Off west coast of
Guatemala
H = 21 25 38
h = about 33 km
Banff
eP 21 33 27
Mould Bay
eP 21 36 11
Ottawa
iP 21 32 25 (d)
Penticton
iP 21 33 28
Schefferville
eP 21 33 56
Shawinigan Falls
eP 21 32 43
Victoria
eP 21 33 38
Yellowknife
eP 21 34 40 c

FEBRUARY 2
Mould Bay
eP 22 17 07

FEBRUARY 2
Mould Bay
eP 23 27 29

FEBRUARY 3
Penticton
eP 01 47 06

FEBRUARY 3
U.S.C.G.S.
15.1N, 92.0W
Off west coast of
Guatemala
H = 04 23 28
h = about 166 km
Mould Bay
eP 04 33 35



DOMINION OBSERVATORIES

Ottawa
iP 04 30 06 d
Penticton
iP 04 30 56 d
Shawinigan Falls
eP 04 30 24
Victoria
eP 04 31 06 d
Yellowknife
iP 04 32 05 c

FEBRUARY 3
Mould Bay
eP 08 17 00

FEBRUARY 3
U.S.C.G.S.
8.8S, 75.8W
Peru
H = 11 18 08
h = about 33 km

Mould Bay
eP 11 30 58 d

FEBRUARY 3
U.S.C.G.S.
7.6N, 72.1W
Venezuela-Colombia
border
H = 12 52 13.8
h = about 33 km
Alert
eP 13 03 53
Mould Bay
iP 13 03 43 c
Ottawa
iP 12 59 29
Penticton
iP 13 02 02 d
Resolute
eP 13 03 13
Schefferville
eP 13 00 46
Yellowknife
iP 13 02 38 c

FEBRUARY 3
Dominion Observatory
72.9°N, 23.8°W
Northeastern Greenland
H = 14 25 41
Mag 4.9
An aftershock at
15 36 57
Alert
P_n 14 27 19
S_n 14 28 36
L_g 14 29 15
D = 760 km

Mould Bay
eP_n 14 29 55.5
D = 2040 km
Resolute

P_n 14 29 19
S_n 14 32 10
e 14 33 55
D = 1740 km

FEBRUARY 3
Dominion Observatory
72.9°N, 23.8°W
Northeastern Greenland
H = 15 36 57
Mag 4.2
Aftershock of earthquake
14 25 41
Alert
P_n 15 38 35
S_n 15 39 51
L_g 15 40 30
D = 760 km

Mould Bay
eP 15 41 10
D = 2030
Resolute
P_n 15 40 35
S_n 15 43 26
D = 1740 km

FEBRUARY 3
Mould Bay
i 18 44 19

FEBRUARY 3
Alert
e(P) 21 37 (02)
i 21 40 01

FEBRUARY 4
U.S.C.G.S.
6.3S, 149.1E
New Britain region
H = 01 17 03.1
h = about 36 km
Ottawa
iP' 01 36 01
Schefferville
eP' 01 35 59 c

FEBRUARY 4
Mould Bay
eP 04 33 56 c
Resolute
eP 04 34 25

FEBRUARY 4
U.S.C.G.S.
27.3N, 54.2E
Southern Iran
H = 05 14 25.6
h = about 34 km
Mould Bay
eP 05 26 14
Schefferville
eP 05 26 (46)

FEBRUARY 4
Mould Bay
eP 07 14 53 c

FEBRUARY 4
U.S.C.G.S.
27.7N, 54.6E
Southern Iran
H = 07 18 06.9
h = about 33 km
Schefferville
eP 07 30 33 d

SEISMOLOGICAL BULLETIN - 1963

FEBRUARY 4
U.S.C.G.S.
51.6N, 176.6W
Andreanof Islands,
Aleutian Islands
H = 51.6N, 176.6W
h = about 33 km
Mould Bay
eP 10 10 36
Penticton
eP 10 10 59

FEBRUARY 4
U.S.C.G.S.
5.1N, 82.4W
South of Panama
H = 12 28 38.1
h = about 45 km
Schefferville
eP 12 37 39 (c)

FEBRUARY 4
U.S.C.G.S.
26.1N, 124.1E
Ryukyu Islands region
H = 16 15 22.9
h = about 33 km
Mould Bay
eP 16 26 37 d

FEBRUARY 4
U.S.C.G.S.
48.2N, 153.9E
Kurile Islands
H = 20 57 10.9
h = about 57 km
Mould Bay
eP 21 05 07 c
Resolute
eP 21 05 56 c

FEBRUARY 4
U.S.C.G.S.
48.5N, 154.9E
Kurile Islands
H = 23 21 09.0
h = about 85 km

Alert
iP 23 29 40 c
Banff
iP 23 30 27 d
Mould Bay
iP 23 28 58 c
Ottawa
eP 23 32 (52)
Penticton
iP 23 30 19 d
Resolute
iP 23 29 47 c
Schefferville
eP 23 32 21 c
Shawinigan Falls
eP 23 32 52
Victoria
eP 23 30 07
Yellowknife
iP 23 29 47 d

FEBRUARY 5
U.S.C.G.S.
0.0, 123.8E
Celebes region
H = 01 47 49.8
h = about 164 km

Mould Bay
eP 02 01 00
FEBRUARY 5
U.S.C.G.S.
19.2N, 147.1E
Mariana Islands region
H = 05 04 03.4
h = about 38 km
Alert
eP 05 15 (55)
Mould Bay
iP 05 15 25

Penticton
iP 05 15 59
Resolute
eP 05 16 01 d
Yellowknife
iP 05 15 52 d

FEBRUARY 5
U.S.C.G.S.
59.4N, 156.4W
Alaska
H = 07 19 30.0
h = about 33 km
Mould Bay
eP 07 24 15
i 07 24 18
Yellowknife
iP 07 23 51 d

FEBRUARY 5
U.S.C.G.S.
44.3N, 114.5W
Central Idaho
H = 07 29 00.3
h = about 33 km
Penticton
eP 07 30 30
Yellowknife
eP 07 33 11

FEBRUARY 5
U.S.C.G.S.
53.7N, 165.4W
Fox Islands,
Aleutian Islands
H = 12 08 20.6
h = about 33 km
Mould Bay
eP 12 14 14
Penticton
eP 12 14 15
Resolute
eP 12 15 04
Yellowknife
eP 12 14 07

DOMINION OBSERVATORIES

<p>FEBRUARY 5 U. S. C. G. S. 14.2N, 94.0W Off coast of Chiapas, Mexico H = 17 49 38 h = about 33 km Mould Bay eP 18 00 07 d Resolute eP 17 59 (47)</p> <p>FEBRUARY 5 U. S. C. G. S. 31.9S, 179.0W Kermadec Islands H = 19 29 30.0 h = about 68 km Mould Bay eP' 19 48 00 c Resolute eP' 19 48 09 c Schefferville eP' 19 48 (27)</p> <p>FEBRUARY 5 U. S. C. G. S. 38.4S, 73.2W Near coast of Central Chile H = 20 39 21.6 h = about 41 km Mag 6 1/4 - 6 1/2 (PAS) 6 - 6 1/4 (BRK) 5 3/4 - 6 (PAL) Halifax eP 20 51 45 London eP 20 51 33 c Ottawa iP 20 51 46 d Shawinigan Falls eP 20 51 50</p> <p>FEBRUARY 5 U. S. C. G. S. 7.9S, 119.9E Flores Sea H = 01 55 59.2 h = about 306 km Halifax eP' 02 14 59 London eP' 02 14 48 Penticton eP' 02 14 09 Resolute eP' 02 13 (59) Schefferville eP' 02 14 40 Yellowknife iP' 02 14 03</p>	<p>FEBRUARY 5 Canadian Arctic H = 22 23 45.1 Mag 1.2 Resolute P₁ 22 33 53 S₁ 22 33 59 D = 49 km</p> <p>FEBRUARY 6 U. S. C. G. S. 38.4S, 73.6W Near coast of Central Chile H = 01 21 29.0 h = about 33 km London eP 01 33 43 c Mould Bay eP' 01 40 (12) Ottawa iP 01 33 55 d Shawinigan Falls eP 01 34 01 (c)</p> <p>FEBRUARY 6 U. S. C. G. S. 7.9S, 119.9E Flores Sea H = 01 55 59.2 h = about 306 km Halifax eP' 02 14 59 London eP' 02 14 48 Penticton eP' 02 14 09 Resolute eP' 02 13 (59) Schefferville eP' 02 14 40 Yellowknife iP' 02 14 03</p>	<p>FEBRUARY 6 U. S. C. G. S. 6.8N, 73.2W Colombia-Venezuela Border region H = 03 27 55.8 h = about 108 km Mould Bay eP 03 39 19 Penticton iP 03 37 36 Resolute eP 03 38 (50) Schefferville iP 03 36 26 c Shawinigan Falls eP 03 35 20 Yellowknife iP 03 38 13 d</p> <p>FEBRUARY 6 U. S. C. G. S. 18.1S, 177.6W Fiji Islands region H = 05 53 53.9 h = about 500 km Penticton iP 06 05 34 c</p> <p>FEBRUARY 6 U. S. C. G. S. 14.9N, 95.0W Off coast of Chiapas, Mexico H = 06 16 39 h = about 33 km Mould Bay eP 06 27 03 c</p> <p>FEBRUARY 6 U. S. C. G. S. 7.4N, 82.6W Near south coast of Panama H = 07 01 47.0 h = about 61 km</p>
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SEISMOLOGICAL BULLETIN - 1963

<p>London eP 07 08 39 Mould Bay eP 07 13 03 Ottawa iP 07 09 03 d Penticton iP 07 10 53 c Resolute eP 07 12 38 d Schefferville eP 07 10 29 c Shawinigan Falls eP 07 09 17 Victoria iP 07 11 04 c</p> <p>FEBRUARY 6 U. S. C. G. S. 3.5S, 146.0E Bismarck Sea H = 10 20 25.5 h = about 33 km Mould Bay eP 10 33 45</p> <p>FEBRUARY 6 Mould Bay eP 11 22 19 d</p> <p>FEBRUARY 6 Mould Bay eP 12 57 (15) Penticton eP 12 57 15 Resolute eP 12 57 00</p> <p>FEBRUARY 6 Mould Bay eP 14 38 28 d</p>	<p>FEBRUARY 6 Ottawa iP 16 00 24</p> <p>FEBRUARY 6 Mould Bay eP 18 00 32</p> <p>FEBRUARY 6 U. S. C. G. S. 55.6N, 166.1E Komandorskie Islands region H = 18 17 10.9 h = about 33 km Alert eP 18 24 43 c Banff eP 18 25 20 London eP 18 27 57 Mould Bay eP 18 23 51 Penticton eP 18 25 14 Resolute eP 18 24 41 Schefferville eP 18 27 (25) Shawinigan Falls eP 18 28 00</p> <p>FEBRUARY 6 U. S. C. G. S. 56.7S, 28.8W Sandwich Islands region H = 20 46 50.7 h = about 33 km Mould Bay eP' 21 06 15 Yellowknife eP' 21 06 03</p>	<p>FEBRUARY 6 U. S. C. G. S. 28.2S, 67.4W La Rioja Province, Argentina H = 21 43 16.3 h = about 19 km Mould Bay eP' 22 01 52 Penticton eP 21 56 18 Schefferville eP 21 55 48 Shawinigan Falls eP 21 55 04 Yellowknife iP 21 56 55 (c)</p> <p>FEBRUARY 6 Dominion Observatory About 85°N, 7°W North Polar region H = 21 43 53 Mag 4.2 Alert eP_n 21 45 28 S_n 21 46 44 D = 745 km Mould Bay iP_n 21 47 45.5 D = 1870 km Resolute P_n 21 47 39 D = 1805 km</p> <p>FEBRUARY 17 U. S. C. G. S. 17.7S, 178.7W Fiji Islands region H = 01 23 41.7 h = about 559 km Mag 4.3 (C. G. S.) Penticton iP 01 35 18</p>
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DOMINION OBSERVATORIES

FEBRUARY 7
U. S. C. G. S.
59. 6S, 147. 9E
1000 km southwest
of MacQuarie Islands
H = 03 29 41. 9
h = about 33 km
Mag 5. 0 (CGS)
London
eP' 03 49 17
Mould Bay
eP' 03 49 20

FEBRUARY 7
Mould Bay
eP 09 35 32

FEBRUARY 7
U. S. C. G. S.
36. 4N, 70. 8E
Hindu Kush
H = 12 12 31. 4
h = about 214 km
Mag 3. 7 (CGS)
Mould Bay
eP 12 23 06
i 12 23 53

FEBRUARY 7
U. S. C. G. S.
14. 4N, 53. 3E
Gulf of Aden
H = 16 44 45. 3
h = about 33 km
Mould Bay
eP 16 57 (39)

FEBRUARY 7
U. S. C. G. S.
14. 7N, 119. 6E
Off west coast of
Central Luzon,
Philippine Islands
H = 17 36 52. 8
h = about 151 km
Mag 4. 5 (C. G. S.)

Mould Bay
eP 17 49 01 c
Resolute
eP 17 49 (28)
Yellowknife
eP 17 49 48 d

FEBRUARY 7
Penticton
eP 18 13 34
Victoria
iP 18 13 06c

FEBRUARY 7
Mould Bay
eP 20 13 29
Yellowknife
eP 20 10 07

FEBRUARY 7
Mould Bay
iP 21 19 08 d

FEBRUARY 7
Mould Bay
eP 22 04 (07)

FEBRUARY 8
Canadian Arctic
H = 02 00 53. 2
Mag 2. 4
Yellowknife
P₁ 02 01 26
S₁ 02 01 56
D = 205 km

FEBRUARY 8
U. S. C. G. S.
54. 2N, 35. 0W
North Atlantic Ocean
H = 04 07 28. 1
h = about 33 km
Shawinigan Falls
eP 04 12 50

FEBRUARY 8
U. S. C. G. S.
26. 6N, 55. 2E
Persian Gulf
H = 06 03 09. 9
h = about 33 km
Mag 4. 1 (C. G. S.)
Mould Bay
eP 06 15 02

FEBRUARY 8
Mould Bay
eP 07 38 (00)

FEBRUARY 8
Penticton
eP 09 52 24

FEBRUARY 8
U. S. C. G. S.
54. 1N, 159. 8E
Near east coast of
Kamchatka
H = 10 02 15. 0
h = about 33 km
Mag 4. 1 (C. G. S.)
Alert
eP 10 10 05
Mould Bay
iP 10 09 16
Resolute
eP 10 10 09

FEBRUARY 8
U. S. C. G. S.
50. 9N, 156. 6E
Southern Kamchatka
H = 13 26 20. 5
h = about 63 km
Mag 4. 4 (C. G. S.)
Mould Bay
eP 13 33 49
Resolute
eP 13 34 41

SEISMOLOGICAL BULLETIN - 1963

FEBRUARY 8
Mould Bay
eP 16 07 30

FEBRUARY 8
U. S. C. G. S.
12. 9S, 170. 2E
New Hebrides Islands
region
H = 18 18 07. 3
h = about 628 km
Mould Bay
eP' 18 37 31
Resolute
eP' 18 37 (28)

FEBRUARY 8
Penticton
eP 19 04 03

FEBRUARY 9
Mould Bay
eP 01 41 59
Resolute
eP 01 42 42 c

FEBRUARY 9
U. S. C. G. S.
36. 4N, 137. 9E
Central Honshu,
Japan
H = 03 53 06
h = about 33 km
Mag 4. 4 (C. G. S.)
Mould Bay
eP 04 02 56
Resolute
eP 04 03 36 (c)

FEBRUARY 9
Alert
eP 04 18 17

FEBRUARY 9
U. S. C. G. S.
51. 2N, 179. 8W
Andreanof Islands,
Aleutian Islands
H = 07 59 52. 9
h = about 33 km
Mag 4. 5 (C. G. S.)
Banff
eP 08 07 18
London
eP 08 10 15
Mould Bay
eP 08 06 36 c
Penticton
eP 08 07 06
Resolute
eP 08 07 27 (d)
Schefferville
eP 08 10 01
Victoria
eP 08 06 51
Yellowknife
iP 08 06 50 (c)

FEBRUARY 9
Penticton
eP 17 03 54

FEBRUARY 9
U. S. C. G. S.
44. 5N, 27. 9W
Azores Islands region
H = 20 40 20
h = about 33 km
Mould Bay
eP 20 48 52 c

FEBRUARY 10
Mould Bay
eP 03 38 01

FEBRUARY 10
U. S. C. G. S.
7. 8N, 83. 4W
South of Panama
H = 05 02 34
h = about 33 km
Mag 4. 0 (C. G. S.)
Mould Bay
eP 05 13 50

FEBRUARY 9
U. S. C. G. S.
43. 7N, 150. 6E
Kurile Islands region
H = 16 05 03. 0
h = about 33 km
Mag 4. 8 (C. G. S.)
Alert
eP 16 14 18
London
eP 16 17 21
Mould Bay
eP 16 13 41
Penticton
iP 16 14 58 c
Resolute
eP 16 14 27 c
Schefferville
eP 16 16 (55)
Yellowknife
eP 16 14 28 d

DOMINION OBSERVATORIES

FEBRUARY 10
 U.S.C.G.S.
 52.0N, 108.1E
 Lake Baikal region
 H = 06 48 31.2
 h = about 27 km
 Mould Bay
 eP 06 57 08
 Resolute
 eP 06 57 41 d

FEBRUARY 10
 U.S.C.G.S.
 42.4N, 142.1E
 Near south coast
 of Hokkaido, Japan
 H = 12 00 42.2
 h = about 54 km
 Mag 4.3 (C.G.S.)
 Mould Bay
 eP 12 09 41 c
 Resolute
 eP 12 10 26 c

FEBRUARY 10
 U.S.C.G.S.
 53.5N, 33.4W
 North Atlantic Ocean
 H = 15 05 25.3
 h = about 41 km
 Mag 4.9 (C.G.S.)
 Alert
 eP 15 11 33
 Halifax
 eP 15 10 14
 Mould Bay
 eP 15 12 41 c
 Penticton
 eP 15 14 23
 Resolute
 eP 15 11 49 (c)
 Schefferville
 eP 15 09 50 c

Shawinigan Falls
 eP 15 10 56
 Yellowknife
 eP 15 13 07

FEBRUARY 10
 U.S.C.G.S.
 44.6N, 28.1W
 Azores Islands region
 H = 16 36 11.1
 h = about 33 km
 Mould Bay
 eP 16 44 43

FEBRUARY 10
 Mould Bay
 eP 17 57 51

FEBRUARY 10
 U.S.C.G.S.
 44.6N, 147.8E
 Kurile Islands region
 H = 21 35 48.7
 h = about 67 km
 Mag 5.0 (C.G.S.)
 Alert
 eP 21 44 54
 Banff
 eP 21 45 54
 Mould Bay
 eP 21 44 22
 Penticton
 iP 21 45 47 c
 Resolute
 eP 21 45 08 c
 Schefferville
 eP 21 47 35
 Victoria
 eP 21 45 35
 Yellowknife
 eP 21 45 14 d

FEBRUARY 11
 Mould Bay
 eP 02 06 12

FEBRUARY 11
 Penticton
 eP 08 10 15

FEBRUARY 11
 U.S.C.G.S.
 67.6N, 146.7W
 Alaska
 H = 15 05 38.8
 h = about 33 km
 Mag 4.8 (Ott)

Penticton
 eP 15 10 40
 Mould Bay
 P_n 15 08 28
 S_n 15 10 36
 D = 1300 km

Resolute
 eP_n 15 09 42
 S_n 15 12 51
 D = 1925 km
 Schefferville
 eP_n 15 12 53
 Yellowknife
 eP_n 15 08 52
 S_n 15 11 23
 L_g 15 13 00
 D = 1525 km

FEBRUARY 11
 Mould Bay
 eP 16 58 35

FEBRUARY 12
 U.S.C.G.S.
 17.7N, 122.3E
 Near west coast of
 Luzon, Philippine
 Islands
 H = 00 26 19
 h = about 33 km
 Mag 4.5 (C.G.S.)

SEISMOLOGICAL BULLETIN - 1963

Mould Bay
 eP 00 38 22
 Resolute
 eP 00 38 52
 Yellowknife
 eP 00 39 13

FEBRUARY 12
 U.S.C.G.S.
 19.0N, 107.4W
 Revilla Gigedo
 Islands region
 H = 08 43 37.9
 h = about 33 km
 Mag 4.4 (C.G.S.)
 Mould Bay
 eP 08 53 26 d

FEBRUARY 12
 U.S.C.G.S.
 51.5N, 177.9W
 Andreanof Islands
 Aleutian Islands
 H = 15 09 46.0
 h = about 33 km
 Mag 3.7 (C.G.S.)
 Mould Bay
 eP 15 16 23 c
 Penticton
 iP 15 16 50
 Resolute
 e 15 19 22
 Yellowknife
 eP 15 16 33

FEBRUARY 12
 U.S.C.G.S.
 6.7S, 147.1E
 Near north coast
 of New Guinea
 H = 17 43 59.2
 h = about 120 km
 Mag 4.8 (C.G.S.)
 Mould Bay
 eP 17 57 19

FEBRUARY 12
 Alert
 eP 21 43 01

FEBRUARY 12
 Mould Bay
 eP 21 45 02
 Resolute
 eP 21 45 (08)

FEBRUARY 12
 U.S.C.G.S.
 17.8S, 178.6W
 Fiji Islands
 H = 23 07 28.9
 h = about 583 km
 Mag 5.5 (C.G.S.)
 Banff
 eP 23 19 19

Mould Bay
 eP 23 20 13
 Penticton
 iP 23 19 04 c
 Yellowknife
 iP 23 19 46 c

FEBRUARY 13
 Mould Bay
 iP 00 26 25 c
 i 00 29 56
 Yellowknife
 eP 00 26 12

FEBRUARY 13
 U.S.C.G.S.
 13.4N, 91.0W
 Near south coast
 of Guatemala
 H = 00 22 51.3
 h = about 116 km
 Mag 5.0 (C.G.S.)
 Alert
 eP 00 33 (52)
 Banff
 eP 00 30 38

London
 (e)P 00 28 55 d
 i 00 29 18

Mould Bay
 eP 00 33 18
 Ottawa
 eP 00 29 29 c

Penticton
 iP 00 30 41 d
 Resolute
 eP 00 32 55

Schefferville
 iP 00 31 00 d

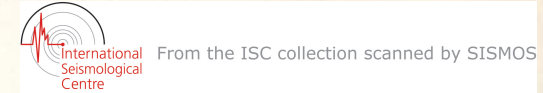
Seven Falls
 eP 00 29 57 d
 Shawinigan Falls
 eP 00 29 46

Victoria
 eP 00 30 50 d
 Yellowknife
 iP 00 31 49 c

FEBRUARY 13
 U.S.C.G.S.
 13.0N, 57.9E
 Arabian Sea
 H = 01 34 40.4
 h = about 33 km

Alert
 eP 01 46 53
 Mould Bay
 eP 01 47 41 d

FEBRUARY 13
 U.S.C.G.S.
 27.6N, 55.1E
 Southern Iran
 H = 03 06 38.1
 h = about 33 km
 Mag 3.9 (C.G.S.)
 Mould Bay
 eP 03 18 26 c



DOMINION OBSERVATORIES

FEBRUARY 13
Mould Bay
eP 03 39 11

FEBRUARY 13
U. S. C. G. S.
24.5N, 121.8E
Northern Formosa
H = 08 50 02.2
h = about 33 km
Mag 7 1/4 (PAS)
7 1/4 (BRK)
7 - 7 1/4 (PAL)

Alert
iP 09 01 32 c
S 09 10 56
Banff
iP 09 02 57 c
Mould Bay
eP 09 01 28 d
S 09 10 50
Ottawa
eP 09 04 (22)
Penticton
iP 09 02 53 c
Resolute
eP 09 01 59 d
Schefferville
eP 09 03 48 c
Seven Falls
eP' 09 08 (27)
Victoria
iP 09 02 45 c
Yellowknife
iP 09 02 22 c

FEBRUARY 13
Mould Bay
iP 09 20 54 c
Yellowknife
iP 09 20 48
i 09 21 48

FEBRUARY 13
U. S. C. G. S.
24.8N, 121.7E
Northern Formosa
H = 09 30 34.6
h = about 33 km
Alert
eP 09 42 03
Mould Bay
iP 09 41 57
Yellowknife
eP 09 42 51

FEBRUARY 13
U. S. C. G. S.
9.9S, 160.8E
Solomon Islands
H = 18 13 55.1
h = about 29 km
Mag 6 1/2 (PAS)
6 1/2 (BKS)
5.8 (CGS)
Alert
eP 18 27 (56)
Banff
eP 18 27 08
Mould Bay
eP 18 27 25
Ottawa
eP' 18 32 (48)
Penticton
eP 18 26 56
Resolute
eP 18 27 54 d
Schefferville
eP' 18 32 (52)
Seven Falls
eP' 18 32 51
Shawinigan Falls
eP' 18 32 52
Victoria
eP 18 26 45
Yellowknife
eP 18 27 20

FEBRUARY 13
U. S. C. G. S.
24.6N, 122.1E
Northern Formosa
H = 19 02 06.7
h = about 33 km
Mag 5.0 (C. G. S.)
Alert
e(P) 19 13 55
Mould Bay
eP 19 13 31 c
Penticton
iP 19 14 57

FEBRUARY 13
Seven Falls
eP 19 13 46

FEBRUARY 13
U. S. C. G. S.
11.6N, 57.7E
Socotra region
H = 19 55 36.0
h = about 33 km
Mould Bay
eP 20 08 45

FEBRUARY 14
Mould Bay
eP 06 57 (22)

FEBRUARY 14
U. S. C. G. S.
10.1S, 160.3E
Solomon Islands
H = 06 48 30.3
h = about 64 km
Mag 5.1 (C. G. S.)
Penticton
eP 07 01 29

SEISMOLOGICAL BULLETIN - 1963

FEBRUARY 14
Alert
eP 07 12 (04)
Mould Bay
eP 07 10 25
Resolute
eP 07 11 32
Yellowknife
eP 07 11 14

FEBRUARY 14
U. S. C. G. S.
7.2S, 128.2E
Banda Sea
H = 07 04 40.8
h = about 197 km
Mag 6 1/2 (PAS)
5.8 (CGS)

Banff
eP' 07 22 55
Halifax
eP' 07 23 47
London
P' 07 23 30
Mould Bay
eP 07 18 16
iP' 07 22 41
Ottawa
eP' 07 23 32
i 07 23 43
Penticton
eP 07 18 52
Schefferville
eP' 07 23 (25)
Seven Falls
eP' 07 23 (31)
Shawinigan Falls
eP' 07 23 (37)
Victoria
eP 07 18 41
eP' 07 22 48
Yellowknife
eP 07 18 44
iP' 07 22 49

FEBRUARY 14
U. S. C. G. S.
6.2N, 82.5W
South of Panama
H = 08 31 59.5
h = about 33 km
Mag 4.2 (C. G. S.)
Mould Bay
eP 08 43 26 c
Penticton
eP 08 41 16
Resolute
eP 08 43 (00)
Schefferville
eP 08 40 53
Yellowknife
iP 08 42 10 c

FEBRUARY 14
U. S. C. G. S.
11.0N, 61.3W
Near north coast of
Trinidad
H = 08 50 36.5
h = about 33 km
Mag 4.0 (C. G. S.)
Mould Bay
eP 09 02 (02)

FEBRUARY 14
U. S. C. G. S.
00.9N, 30.0W
Mid-Atlantic Ocean
H = 12 09 11.4
h = about 33 km
Mag 4.6 (C. G. S.)
Alert
eP 12 21 (34)
S 12 31 52
Halifax
(eP) 12 18 30
London
eP 12 19 31 d
Mould Bay
eP 12 22 04 c
S 12 32 48

Ottawa
eP 12 19 (19)
Penticton
eP 12 22 04
Resolute
eP 12 21 33
Schefferville
eP 12 19 30
Seven Falls
eP 12 19 (04)
Shawinigan Falls
eP 12 19 (09)
Yellowknife
eP 12 21 52

FEBRUARY 14
U. S. C. G. S.
40.4N, 19.9E
Near coast of Albania
H = 12 48 02
h = about 33 km
Mag 4.4 (C. G. S.)
Mould Bay
eP 12 58 12

FEBRUARY 14
U. S. C. G. S.
44.5N, 15.5E
Near coast of
Yugoslavia
H = 13 18 56.4
h = about 36 km
Alert
eP 13 27 07
Mould Bay
eP 13 28 33 c
Penticton
eP 13 30 57

FEBRUARY 14
U. S. C. G. S.
45.2N, 148.6E
Kurile Islands
H = 14 09 29.8
h = about 97 km
Mag 5.1 (C. G. S.)
Mould Bay
eP 14 17 52

DOMINION OBSERVATORIES

Resolute
eP 14 18 40 c

FEBRUARY 14
Penticton
eP 14 48 08

FEBRUARY 14
Resolute
eP 22 06 30

FEBRUARY 14
U.S.C.G.S.
5.0S, 144.6E
Eastern New Guinea
H = 22 07 54.3
h = about 80 km
Mag 6 1/2 (PAS)
6 (PAL)
6.0 (CGS)

Halifax
eP' 22 27 04

London
eP' 22 26 45

Mould Bay
eP 22 21 14

Ottawa
eP' 22 26 49

Penticton
eP 22 21 20

Resolute
eP 22 21 (44)

Schefferville
eP' 22 26 45 c

Seven Falls
eP' 22 26 52 (c)

Victoria
eP 22 21 10

Yellowknife
eP 22 21 28

FEBRUARY 14
U.S.C.G.S.
3.1S, 134.3E
Western New Guinea
H = 22 41 51.1
h = about 49 km
Mag 4.6 (CGS)

Mould Bay
iP 22 55 16 c

FEBRUARY 15
U.S.C.G.S.
33.2S, 179.2W
Kermadec Islands
H = 00 48 51.9
h = about 42 km
Mag 5.3 (CGS)

Alert
eP' 01 07 48

Mould Bay
eP' 01 07 27

Resolute
eP' 01 07 36 c

Seven Falls
eP' 01 07 47 c

FEBRUARY 15
U.S.C.G.S.
14.9S, 178.7W
Fiji Islands region
H = 06 54 51.8
h = about 33 km
Mag 5.0 (CGS)

Penticton
iP 07 07 14

FEBRUARY 15
Mould Bay
eP 09 10 00

FEBRUARY 15
U.S.C.G.S.
40.6N, 20.3E
Albania
H = 10 18 26.3
h = about 33 km
Mag 4.6 (CGS)

Alert
eP 10 27 12

Mould Bay
eP 10 28 36

Penticton
eP 10 30 53

Resolute
eP 10 28 14

FEBRUARY 15
Mould Bay
eP 15 57 51 d

Resolute
eP 15 58 (31)

FEBRUARY 15
U.S.C.G.S.
4.3N, 96.3E
Sumatra
H = 16 29 19.0
h = about 33 km
Mag 5.7 (CGS)

Mould Bay
eP 16 42 49 c

FEBRUARY 15
Mould Bay
eP 18 26 10

FEBRUARY 15
U.S.C.G.S.
15.4S, 174.3W
Samoa Islands region
H = 18 30 36.0
h = about 140 km
Mag 5.0 (CGS)

Penticton
eP 18 42 33

SEISMOLOGICAL BULLETIN - 1963

FEBRUARY 15
Penticton
eP 20 33 21

FEBRUARY 15
Mould Bay
eP 22 47 49

FEBRUARY 16
Penticton
eP 00 01 10

FEBRUARY 16
U.S.C.G.S.
46.2N, 111.0W
South Western Montana
H = 03 01 40.5
h = about 33 km

Banff
iP 03 03 07.1

Mould Bay
eP 03 07 (54)

Penticton
eP 03 03 16

Victoria
eP 03 03 53

Yellowknife
eP 03 05 27

FEBRUARY 16
49.6°N, 127.1°W
West of Vancouver Island
H = 04 06 45
Mag 2.8

Penticton
eP_n 04 07 55
D = 527 km

Port Hardy
iP₁ 04 07 07.9
iS₁ 04 07 25.6
D = 145 km

Victoria
eP_n 04 07 28.2
D = 302 km

FEBRUARY 16
U.S.C.G.S.
5.7N, 126.5E
South of Mindanao, Philippine Islands
H = 05 44 27.5
h = about 133 km
Mag 4.3 (CGS)

Mould Bay
eP 05 57 (12)

FEBRUARY 16
U.S.C.G.S.
36.7N, 38.0E
Near coast of Turkey
H = 06 21 13.2
h = about 101 km
Mag 4.1 (CGS)

Mould Bay
eP 06 31 (45)

FEBRUARY 16
44°53'N, 73°41'W
15 miles southwest of Rouses Pt., N. Y.
H = 08 00 16.6
Mag 2.6

London
e 08 03 11
Lg 08 03 18
D = 648 km

Montreal
P₁ 08 00 26.7
i 08 00 30
S₁ 08 00 35
D = 68.1km

Ottawa
P₁ 08 00 45
i 08 00 48.5
S₁ 08 01 06.0
D = 172 km

Seven Falls
P_n 08 01 03
S_n 08 01 36
S₁ 08 01 46
D = 325 km

Shawinigan Falls
P_n 08 00 46
S_n 08 01 08.5
S₁ 08 01 12.5
D = 200 km

FEBRUARY 16
U.S.C.G.S.
15.1N, 46.5W
North Atlantic Ocean
H = 08 04 13.4
h = about 33 km
Mag 4.5 (CGS)

Penticton
iP 08 15 10

FEBRUARY 16
U.S.C.G.S.
17.7S, 178.6W
Fiji Islands region
H = 08 31 17.5
h = about 534 km
Mag 4.5 (CGS)

Mould Bay
eP 08 44 05

Penticton
iP 08 42 56 c

FEBRUARY 16
U.S.C.G.S.
9.7N, 122.5E
Negros, Philippine Islands
H = 08 31 51.1
h = about 28 km

Mould Bay
iP 08 44 36

FEBRUARY 16
Mould Bay
eP 11 02 31

DOMINION OBSERVATORIES

FEBRUARY 16
U. S. C. G. S.
7.0S, 117.3E
Flores Sea
H = 10 46 22.0
h = about 561 km
Mag 4.6 (C. G. S.)
Mould Bay
eP' 11 03 38
Ottawa
eP' 11 04 40
e 11 07 27
Penticton
iP' 11 04 03
Resolute
eP' 11 03 49 d
Schefferville
eP' 11 04 32
Seven Falls
eP' 11 04 39

FEBRUARY 16
U. S. C. G. S.
0.6S, 147.5E
Admiralty Islands
region
H = 12 12 39.1
h = about 33 km
Mag 5.0 (CGS)
Mould Bay
eP 12 25 43
i 12 26 22
Resolute
eP 12 26 08 d

FEBRUARY 16
U. S. C. G. S.
36.5N, 70.5E
Hindu Kush
H = 12 19 31.1
h = about 216 km
Mag 5.2 (CGS)
Alert
eP 12 29 10 c
Mould Bay
iP 12 30 04 c
S 12 38 44

Penticton
eP 12 32 21
Schefferville
eP 12 31 (28)
Yellowknife
iP 12 31 24 c

FEBRUARY 16
U. S. C. G. S.
Mould Bay
eP 14 15 24

FEBRUARY 16
U. S. C. G. S.
17.8S, 178.5W
Fiji Islands region
H = 17 54 41.3
h = about 564 km
Mag 4.4 (CGS)
Penticton
iP 18 06 17

FEBRUARY 16
U. S. C. G. S.
H = 20 17 19
Mag 1.9
Penticton
eP_n 20 17 56.2
eS_n 20 18 27.1
D = 253 km

FEBRUARY 16
U. S. C. G. S.
8.5S, 80.1W
Off coast of Peru
H = 21 32 22.4
h = about 33 km
Mag 4.8 (CGS)
Mould Bay
eP 21 45 09 c

FEBRUARY 17
U. S. C. G. S.
54.0N, 35.1W
North Atlantic Ocean
H = 00 03 03.7
h = about 32 km
Mag 3.8 (CGS)

Schefferville
eP 00 07 17
Seven Falls
eP 00 08 (10)

FEBRUARY 17
U. S. C. G. S.
24.1N, 122.5E
Ryukyu Islands
H = 02 31 40.8
h = about 33 km
Mag 4.6 (CGS)
Banff
eP 02 44 36
Mould Bay
eP 02 43 07
Penticton
iP 02 44 31 c
Victoria
eP 02 44 23
Yellowknife
eP 02 44 00

FEBRUARY 17
U. S. C. G. S.
17.2N, 100.8W
Guerrero, Mexico
H = 03 50 41.2
h = about 33 km
Mag 4.1 (CGS)
Mould Bay
eP 04 00 46 c
Resolute
eP 04 00 30 d
Yellowknife
eP 03 59 05

FEBRUARY 17
U. S. C. G. S.
36.9N, 71.3E
Hindu Kush region
H = 05 38 17.1
h = about 174 km
Mag 4.7 (CGS)
Mould Bay
eP 05 48 53 d
i 05 49 41
Penticton
eP 05 51 16

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FEBRUARY 17
U. S. C. G. S.
4.8S, 144.2E
Northeast New
Guinea
H = 06 53 20.3
h = about 35 km
Mag 5.7 (CGS)
Mould Bay
eP 07 06 45

FEBRUARY 17
U. S. C. G. S.
42.1N, 37.2E
Black Sea
H = 08 28 24.9
h = about 33 km
Mag 4.8 (CGS)
Mould Bay
eP 08 38 37
Penticton
eP 08 41 08
Victoria
eP 08 41 15

FEBRUARY 17
Mould Bay
eP 09 19 49 c

FEBRUARY 17
Mould Bay
eP 14 04 46
Penticton
eP 14 06 10

FEBRUARY 17
U. S. C. G. S.
23.9S, 179.8W
Fiji Islands region
H = 19 26 31.5
h = about 520 km
Mag 5.1 (CGS)
Penticton
iP 19 38 39

FEBRUARY 17
U. S. C. G. S.
43.9N, 17.2E
Yugoslavia
H = 20 12 11.4
h = about 33 km
Mag 5.2 (CGS)
Penticton
eP 20 24 19

FEBRUARY 18
U. S. C. G. S.
H = 02 44 08
Mag 1.2
Penticton
iP₁ 02 44 23.2
iS₁ 02 44 35.1
D = 98 km

FEBRUARY 18
U. S. C. G. S.
25.3N, 121.8E
Near north coast of
Formosa
H = 07 08 29
h = about 33 km
Mould Bay
iP 07 19 51 d

FEBRUARY 18
Mould Bay
eP 14 14 (16)

FEBRUARY 18
U. S. C. G. S.
36.2S, 90.4W
West of Chile
H = 14 12 36.0
h = about 33 km
Mag 5.2 (CGS)
Mould Bay
eP' 14 30 51 c
Seven Falls
iP 14 25 01 c
Shawinigan Falls
eP 14 24 57

FEBRUARY 18
U. S. C. G. S.
36.4N, 70.9E
Hindu Kush
H = 14 25 18.9
h = about 225 km
Mag 4.9 (CGS)
Alert
eP 14 34 58
Mould Bay
iP 14 35 50 c
Resolute
e(P) 14 36 (00)
Schefferville
eP 14 37 16
Yellowknife
iP 14 37 11 c

FEBRUARY 18
U. S. C. G. S.
58.2N, 32.4W
North Atlantic Ocean
H = 18 24 05.5
h = about 33 km
Mag 4.6 (CGS)
Mould Bay
eP 18 30 36
Schefferville
eP 18 28 30

FEBRUARY 18
U. S. C. G. S.
57.9N, 32.2W
North Atlantic Ocean
H = 19 03 01
h = about 33 km
Mould Bay
eP 19 09 (41)
i 19 09 53
Penticton
eP 19 11 39
Schefferville
eP 19 07 27
Shawinigan Falls
eP 19 08 (45)

DOMINION OBSERVATORIES

FEBRUARY 18
U. S. C. G. S.
33. 7N, 137. 7E
Near south coast
of Honshu, Japan
H = 21 53 57. 6
h = about 317 km
Mag 4. 1 (CGS)
Mould Bay
eP 22 03 46
Penticton
iP 22 04 53 d

FEBRUARY 19
Mould Bay
eP 01 01 48

FEBRUARY 19
U. S. C. G. S.
11. 1N, 124. 2E
Cebu, Philippine
Islands region
H = 01 22 23
h = about 33 km
Mould Bay
eP 01 34 52

FEBRUARY 19
Mould Bay
iP 03 37 47 d

FEBRUARY 19
Mould Bay
eP 08 18 17

FEBRUARY 19
Alert
eP 11 22 25 (d)

FEBRUARY 19
U. S. C. G. S.
41. 1N, 142. 8E
South of Hokkaido,
Japan
H = 12 12 47. 5
h = about 32 km
Mag 4. 2 (CGS)
Mould Bay
eP 12 21 58 d
Resolute
eP 12 22 41 d

FEBRUARY 19
U. S. C. G. S.
55. 3S, 28. 8W
Sandwich Islands region
H = 16 39 15. 1
h = about 33 km
Mould Bay
eP' 16 58 41
Penticton
eP' 16 58 20
Resolute
eP' 16 58 (35)
Yellowknife
eP' 16 58 31

FEBRUARY 19
Mould Bay
eP 20 57 42

FEBRUARY 19
U. S. C. G. S.
24. 0N, 122. 9E
Off east coast of
Formosa
H = 22 28 14
h = about 33 km
Mould Bay
eP 22 39 40
Resolute
eP 22 40 12 c

FEBRUARY 19
Mould Bay
eP 22 53 (45)

FEBRUARY 19
Mould Bay
iP 23 11 05 c

FEBRUARY 20
U. S. C. G. S.
17. 2S, 178. 2W
Fiji Islands region
H = 06 46 19. 5
h = about 612 km
Mag 4. 4 (CGS)
Penticton
eP 06 57 48

FEBRUARY 20
Mould Bay
eP 07 47 39

FEBRUARY 20
Mould Bay
eP 12 03 12

FEBRUARY 20
U. S. C. G. S.
51. 9N, 177. 9E
Rat Islands,
Aleutian Islands
H = 14 32 07. 7
h = about 33 km
Mag 4. 7 (CGS)
Mould Bay
iP 14 38 49 c
Penticton
iP 14 39 29 c
Resolute
eP 14 39 42 c
Victoria
eP 14 39 14
Yellowknife
iP 14 39 10 c

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FEBRUARY 20
U. S. C. G. S.
7. 2N, 73. 4W
Northern Colombia
H = 14 51 17. 8
h = about 127 km
Mag 4. 2 (CGS)
Mould Bay
eP 15 02 36

FEBRUARY 20
Mould Bay
eP 15 47 (59)

FEBRUARY 20
U. S. C. G. S.
38. 8N, 139. 0E
Off west coast of
Honshu, Japan
H = 16 45 51. 0
h = about 175 km
Mould Bay
eP 16 55 08 d
i 16 55 50
Resolute
eP 16 55 49 d

FEBRUARY 20
U. S. C. G. S.
45. 7S, 78. 7W
Off coast of
southern Chile
H = 17 07 32. 5
h = about 33 km
Mag 4. 6 (CGS)
Mould Bay
eP' 17 26 29

FEBRUARY 20
U. S. C. G. S.
24. 6N, 122. 1E
Near northeast
coast of Formosa
H = 19 40 30. 9
h = about 33 km
Mag 4. 7 (CGS)

Mould Bay
eP 19 51 55
Penticton
eP 19 53 19
Resolute
e(P) 19 52 (28)

FEBRUARY 21
U. S. C. G. S.
33. 4N, 139. 2E
South of Honshu,
Japan
H = 02 33 35. 9
h = about 168 km
Mag 4. 4 (CGS)
Alert
eP 02 43 52 d
Mould Bay
iP 02 43 29 d
Penticton
iP 02 44 43
Resolute
iP 02 44 09 d
Victoria
eP 02 44 33

FEBRUARY 21
U. S. C. G. S.
42. 3N, 142. 5E
Near south coast
of Hokkaido, Japan
H = 07 49 28. 8
h = about 33 km
Mag 4. 5 (CGS)
Mould Bay
eP 07 58 30
Resolute
eP 07 59 14 c

FEBRUARY 21
U. S. C. G. S.
17. 9N, 146. 5E
Mariana Islands region
H = 13 01 06. 5
h = about 88 km
Mag 4. 4 (CGS)

Mould Bay
eP 13 12 31 d
Resolute
eP 13 13 07 (d)

FEBRUARY 21
U. S. C. G. S.
20. 6S, 175. 1W
Tonga Islands region
H = 13 16 05. 6
h = about 33 km
Mag 5. 2 (CGS)
Banff
i 13 28 56
Penticton
iP 13 28 41 c
Victoria
eP 13 28 28

FEBRUARY 21
Resolute
eP 13 59 49 c

FEBRUARY 21
Mould Bay
eP 14 21 43

FEBRUARY 21
U. S. C. G. S.
20. 5S, 173. 9W
Tonga Islands region
H = 14 28 29
h = about 29 km
Mag 5. 0 (CGS)
Penticton
eP 14 41 01
Yellowknife
eP 14 41 50

DOMINION OBSERVATORIES

<p>FEBRUARY 21 U. S. C. G. S. 32.7N, 20.9E Near coast of Libya H = 17 14 35.7 h = about 33 km Mag 5.0 (CGS) Alert eP 17 24 19 S 17 32 19 Banff eP 17 27 34 Halifax iP 17 25 10 c London iP 17 26 23 (d) Mould Bay eP 17 25 36 S 17 34 44 Ottawa iP 17 25 57 (c) S 17 35 22 Penticton eP 17 27 39 Resolute eP 17 25 15 (d) Schefferville eP 17 24 59 Seven Falls eP 17 25 33 Shawinigan Falls iP 17 25 43 c Victoria eP 17 27 49 c Yellowknife eP 17 26 36</p> <p>FEBRUARY 21 U. S. C. G. S. 32.9N, 21.1E Near coast of Libya H = 18 33 06.8 h = about 33 km Mag 4.5 (CGS) Schefferville eP 18 43 28</p>	<p>FEBRUARY 21 Penticton eP 19 05 43</p> <p>FEBRUARY 21 U. S. C. G. S. 32.6N, 21.0E Near coast of Libya H = 20 26 43.8 h = about 33 km Mag 4.4 (CGS) Mould Bay eP 20 37 44 Resolute eP 20 37 (24) Schefferville eP 20 37 08</p> <p>FEBRUARY 21 U. S. C. G. S. 12.7N, 84.9W Nicaragua H = 23 42 34.7 h = about 33 km Mag 4.3 (CGS) Mould Bay eP 23 53 21</p> <p>FEBRUARY 22 U. S. C. G. S. 27.5N, 87.7E Nepal-Tibet Border region H = 01 32 25.4 h = about 33 km Mould Bay eP 01 44 05</p> <p>FEBRUARY 22 U. S. C. G. S. 85.0N, 98.9E North Polar region H = 07 10 28.0 h = about 33 km Mag 5.0 (CGS)</p>	<p>Alert eP 07 13 19 i 07 13 22 (S) 07 15 34 Banff eP 07 18 27 c Mould Bay eP 07 14 36 Ottawa eP 07 19 18 S 07 26 30 Penticton eP 07 18 41 Resolute eP 07 15 03 Schefferville eP 07 18 (04) Seven Falls eP 07 19 06 Shawinigan Falls eP 07 19 15 Victoria eP 07 18 46 Yellowknife iP 07 16 52 c</p> <p>FEBRUARY 22 U. S. C. G. S. 84.7N, 104.3E North Polar region H = 07 23 14 h = about 33 km Mag 4.8 (CGS) Mould Bay eP 07 27 25 Yellowknife iP 07 29 40 c</p> <p>FEBRUARY 22 U. S. C. G. S. 17.8S, 178.8W Fiji Islands region H = 07 58 57.0 h = about 550 km Mag 5.0 (CGS) Banff iP 08 10 50 c</p>
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SEISMOLOGICAL BULLETIN - 1963

<p>Mould Bay eP 08 11 44 Penticton iP 08 10 35 c Victoria eP 08 10 23 Yellowknife iP 08 11 18 c</p> <p>FEBRUARY 22 U. S. C. G. S. 21.1S, 68.1W Peru-Chile Border region H = 09 37 52.3 h = about 98 km Mag 4.4 (CGS) Yellowknife iP 09 50 46 d</p> <p>FEBRUARY 22 U. S. C. G. S. 30.3S, 178.6W Kermadec Islands H = 11 05 42.0 h = about 113 km Mag 5.0 (CGS) Mould Bay eP' 11 24 04</p> <p>FEBRUARY 22 U. S. C. G. S. 40.6N, 20.5E Albania - Greece Border H = 14 12 54.4 h = about 33 km Mag 4.4 (CGS) Alert eP 14 21 (39) Mould Bay eP 14 23 02 Penticton eP 14 25 21 Resolute eP 14 22 (22)</p>	<p>Schefferville eP 14 22 36 Victoria eP 14 25 33 d Yellowknife eP 14 24 11</p> <p>FEBRUARY 22 Resolute eP 18 27 (35)</p> <p>FEBRUARY 22 U. S. C. G. S. 18.1N, 71.3W Near south coast of Dominican Republic H = 21 14 06.1 h = about 33 km Mag 5.5 (CGS) Alert eP 21 24 39 Banff eP 21 22 41 London eP 21 19 36 (d) Mould Bay eP 21 24 30 c Ottawa eP 21 19 (52) Penticton eP 21 22 55 Resolute eP 21 23 55 c Schefferville eP 21 21 11 Shawinigan Falls eP 21 19 58 Victoria eP 21 23 09 Yellowknife iP 21 23 22</p> <p>FEBRUARY 22 Ottawa eP 21 25 29 Shawinigan Falls eP 21 25 (38)</p>	<p>FEBRUARY 22 Mould Bay eP 22 32 49</p> <p>FEBRUARY 22 Penticton eP 23 13 12</p> <p>FEBRUARY 22 U. S. C. G. S. 58.8N, 137.2W Near coast of southeastern Alaska H = 23 19 57.7 h = about 33 km Mould Bay eP 23 24 14 Penticton i 23 27 10 Resolute eP 23 24 (56) Yellowknife iP 23 22 43</p> <p>FEBRUARY 23 Mould Bay eP 02 51 50</p> <p>FEBRUARY 23 49°29'N, 123°37'W Sehelt Peninsula H = 06 19 17 Mag 2.3 Penticton eP_n 06 20 01.7 D = 298 km Port Hardy eP_n 06 20 03.5 D = 313 km Victoria iP₁ 06 19 37.1 iS₁ 06 19 52.3 D = 114 km</p>
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DOMINION OBSERVATORIES

<p>FEBRUARY 23 U. S. C. G. S. 36. 0S, 102. 5W South Pacific Ocean H = 06 32 30 h = about 33 km Mag 4.7 (CGS) Mould Bay eP 06 45 06</p> <p>FEBRUARY 23 U. S. C. G. S. 44. 8S, 76. 1W Near coast of southern Chile H = 07 02 37.9 h = about 33 km Mag 4.9 (CGS) Mould Bay eP' 07 21 32</p> <p>FEBRUARY 23 Alert eP 16 52 24 Mould Bay eP 16 52 37</p> <p>FEBRUARY 23 U. S. C. G. S. 49. 4N, 158. 6W Kurile Islands region H = 17 12 47.4 h = about 50 km Mag 4.4 (CGS) Alert eP 17 21 (09) i 17 21 14 Mould Bay eP 17 20 25 Resolute eP 17 21 17 d Schefferville eP 17 23 52 c Yellowknife iP 17 21 12 c</p>	<p>FEBRUARY 24 U. S. C. G. S. 19. 4N, 146. 2E Mariana Islands region H = 03 57 35.8 h = about 51 km Mould Bay eP 04 08 58 Resolute eP 04 09 33</p> <p>FEBRUARY 24 U. S. C. G. S. 15. 1S, 72. 5W Near coast of southern Peru H = 05 38 20.6 h = about 105 km Mag 5.3 (CGS) Mould Bay eP 05 51 33 Penticton eP 05 49 37 Resolute eP 05 51 13 Schefferville eP 05 49 19 Seven Falls eP 05 48 30 (c) Yellowknife iP 05 50 40 c</p> <p>FEBRUARY 24 U. S. C. G. S. 18. 3S, 175. 4W Tonga Islands region H = 13 07 26.4 h = about 209 km Mag 4.5 (CGS) Penticton iP 13 19 32 c</p>	<p>FEBRUARY 24 U. S. C. G. S. 14. 6N, 91. 4W Central Guatemala H = 13 34 15.7 h = about 135 km Mag 5.7 (CGS) Alert iP 13 45 06 c Banff eP 13 41 50 Halifax iP 13 41 25 c London eP 13 40 09 c Mould Bay iP 13 44 32 c S 13 54 14 Ottawa iP 13 40 44 c Penticton iP 13 41 53 c Port Hardy iP 13 42 31 c Resolute eP 13 44 09 c Schefferville iP 13 42 15 c Seven Falls iP 13 41 11 c Victoria eP 13 42 03 c Yellowknife iP 13 43 02 c</p> <p>FEBRUARY 24 U. S. C. G. S. 44. 9N, 112. 0W Southwestern Montana H = 15 24 56.6 h = about 33 km Penticton eP 15 26 27</p>
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<p>FEBRUARY 24 Mould Bay eP 15 47 25</p> <p>FEBRUARY 24 U. S. C. G. S. 19. 5S, 179. 0W Fiji Islands region H = 21 34 08.1 h = about 546 km Mag 4.8 (CGS) Penticton iP 21 45 54</p> <p>FEBRUARY 24 U. S. C. G. S. 26. 4N, 44. 5W North Atlantic Ocean H = 22 35 00.0 h = about 33 km Mag 4.6 (CGS) Alert eP 22 44 41 London eP 22 41 45 Mould Bay eP 22 45 12 d Ottawa e 22 41 (20) Resolute eP 22 44 28 d Schefferville eP 22 41 33 Seven Falls eP 22 41 (00) Shawinigan Falls eP 22 41 08 Yellowknife iP 22 44 49</p> <p>FEBRUARY 25 Penticton eP 00 01 49</p>	<p>FEBRUARY 25 U. S. C. G. S. 7. 6S, 112. 3E Near south coast of Java H = 02 38 19 h = about 33 km Mould Bay eP 02 45 27 c i 02 52 26</p> <p>FEBRUARY 25 Resolute eP 05 09 34</p> <p>FEBRUARY 25 U. S. C. G. S. 72. 3N, 5. 5E Greenland Sea H = 07 23 53 h = about 33 km Alert eP 07 27 32</p> <p>FEBRUARY 25 U. S. C. G. S. 28. 1S, 65. 4W San Luis Province, Argentina H = 08 08 20.1 h = about 32 km Mag 5.3 (CGS) London iP 08 19 43 c Penticton eP 08 21 16 Schefferville eP 08 20 42 Seven Falls eP 08 20 00 Yellowknife eP 08 21 55</p>	<p>FEBRUARY 25 U. S. C. G. S. 12. 2N, 88. 2W Off coast of El Salvador H = 08 58 40.8 h = about 33 km Mag 4.2 (CGS) Mould Bay eP 09 09 26 Ottawa eP 09 05 29 Penticton eP 09 06 38 Resolute eP 09 09 02 Schefferville eP 09 06 59 c Seven Falls eP 09 05 55 Yellowknife iP 09 07 59 c</p> <p>FEBRUARY 25 U. S. C. G. S. 10. 4N, 121. 8E Near west coast of Panay, Philippine Islands H = 09 11 23.7 h = about 46 km Mag 4.5 (CGS) Mould Bay eP 09 24 03</p> <p>FEBRUARY 25 U. S. C. G. S. 24. 4N, 123. 4E Near east coast of Formosa H = 17 11 01.7 h = about 33 km Mag 5.3 (CGS) Alert eP 17 22 30 Banff eP 17 23 53</p>
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DOMINION OBSERVATORIES

Mould Bay
iP 17 22 26
S 17 32 24
Penticton
iP 17 23 49
Resolute
eP 17 22 58 d
Victoria
eP 17 23 41 d
Yellowknife
iP 17 23 19 d

FEBRUARY 25
U. S. C. G. S.
19.5N, 121.8E
Off coast of
northern Luzon,
Philippine Islands
H = 19 21 49.6
Mag 3.9 (CGS)
Mould Bay
eP 19 33 43
Yellowknife
eP 19 34 33

FEBRUARY 25
Mould Bay
eP 22 36 45
Yellowknife
eP 22 37 01

FEBRUARY 25
U. S. C. G. S.
15.5N, 121.3E
Central Luzon,
Philippine Islands
H = 23 45 16.8
h = about 33 km
Mag 4.3 (CGS)
Mould Bay
eP 23 57 34
Resolute
eP 23 58 01

FEBRUARY 26
U. S. C. G. S.
19.3N, 121.0E
Coast of northern
Luzon, Philippine
Islands
H = 02 13 20.5
h = about 56 km
Mag 4.3 (CGS)
Mould Bay
eP 02 25 14 c
Resolute
eP 02 25 44 c
Yellowknife
iP 02 26 04 c

FEBRUARY 26
U. S. C. G. S.
12.8N, 144.1E
Mariana Islands
H = 07 52 13.6
h = about 98 km
Alert
eP 08 04 35
Mould Bay
eP 08 04 08
Resolute
eP 08 04 42 d

FEBRUARY 26
U. S. C. G. S.
12.4N, 87.4W
Near coast of
Nicaragua
H = 16 30 13
h = about 33 km
Mag 4.2 (CGS)
Mould Bay
eP 16 40 58
Resolute
eP 16 40 36 c
Schefferville
eP 16 38 34
Yellowknife
iP 16 39 33 c

FEBRUARY 26
U. S. C. G. S.
7.5S, 146.2E
Eastern New Guinea
H = 20 14 08.7
h = about 171 km
Mag 7 1/4 - 7 1/2 (PAS)
7 - 7 1/4 (BRK)
6 3/4 - 7 (PAL)
7.1 (CGS)
Alert
iP 20 27 53 c
Banff
iP 20 27 39 d
Halifax
eP' 20 32 54
Mould Bay
iP 20 27 26 d
Ottawa
eP' 20 32 41
Penticton
iP 20 27 28 d
Resolute
eP 20 27 55 d
Schefferville
eP' 20 32 45
Seven Falls
eP' 20 32 (37)
Shawinigan Falls
eP' 20 32 44
Victoria
iP 20 27 17 d
Yellowknife
iP 20 27 39 d

FEBRUARY 27
U. S. C. G. S.
1.0S, 78.8W
Ecuador
H = 00 10 07.6
h = about 89 km
Mag 4.1 (CGS)
Mould Bay
eP 00 22 11
Penticton
iP 00 20 12 d

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FEBRUARY 27
Penticton
eP 01 23 01
Victoria
eP 01 22 48.8

FEBRUARY 27
80.9N, 85.8W
Near Hare Fiord,
Ellesmere Island,
N. W. T.
H = 01 50 20.3
Mag 3.7
Alert
P_n 01 51 16
S_n 01 52 02
S₁ 01 52 21
D = 440 km
Mould Bay
eP_n 01 52 14.8
eS_n 01 53 45.5
D = 900 km
Resolute
P_n 01 51 58
S_n 01 53 12
D = 740 km

FEBRUARY 27
U. S. C. G. S.
6.0S, 149.4E
New Britain region
H = 04 30 00.8
h = about 52 km
Mag 6 1/2 - 6 3/4 (PAL)
5.2 (CGS)
Alert
eP 04 43 (55)
Halifax
eP' 04 49 (30)
Mould Bay
eP 04 43 27
Ottawa
eP' 04 48 58
Penticton
eP 04 43 22
Resolute
eP 04 43 (55)

Schefferville
eP' 04 48 56
Seven Falls
eP' 04 49 01
Shawinigan Falls
eP' 04 49 00
Yellowknife
eP 04 43 37

FEBRUARY 27
U. S. C. G. S.
16.2S, 173.3W
Tonga Islands region
H = 07 34 23.8
h = about 33 km
Mag 5.4 (CGS)
Penticton
iP 07 46 36

FEBRUARY 27
Mould Bay
iP 10 52 12 c

FEBRUARY 27
U. S. C. G. S.
14.7S, 73.3W
Southern Peru
H = 11 00 45.3
h = about 110 km
Mag 5.4 (CGS)
Mould Bay
eP 11 13 55
Penticton
iP 11 12 21 d

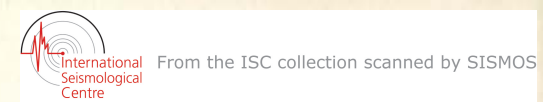
Alert
eP 11 13 35 d
Schefferville
eP 11 11 43
Seven Falls
iP 11 10 53 d
Shawinigan Falls
eP 11 10 48
Yellowknife
iP 11 13 01 d

FEBRUARY 27
U. S. C. G. S.
16.9N, 100.5W
Off coast of
Guerrero, Mexico
H = 16 01 11.2
h = about 33 km
Mag 4.5 (CGS)
Mould Bay
eP 16 11 17
Resolute
eP 16 11 (00)
Schefferville
eP 16 09 34
Seven Falls
eP 16 08 35
Yellowknife
eP 16 09 37

FEBRUARY 27
U. S. C. G. S.
38.1N, 69.6E
Tadzhik, S. S. R.
H = 17 28 00.6
h = about 157 km
Mag 3.9 (CGS)
Mould Bay
eP 17 38 30

FEBRUARY 27
Mould Bay
eP 20 07 50

FEBRUARY 27
U. S. C. G. S.
4.6S, 152.9E
New Britain
H = 20 28 34.9
h = about 100 km
Mag 5.0 (CGS)
Mould Bay
eP 20 41 40
Resolute
e(P) 20 42 (12)
Yellowknife
eP 20 41 49



DOMINION OBSERVATORIES

FEBRUARY 27
H = 20 40 59
Mag 1.5
Port Hardy
eP₁ 20 41 08.0
eS₁ 20 41 15.0
D = 57 km

FEBRUARY 27
U.S.C.G.S.
5.6S, 79.3W
Northern Peru
H = 21 11 32.5
h = about 33 km
Mould Bay
eP 21 24 06
Seven Falls
eP 21 20 53

FEBRUARY 27
U.S.C.G.S.
54.8N, 161.6W
Alaska Peninsula
H = 23 36 20.4
h = about 33 km
Mag 5.3 (CGS)
Alert
eP 23 43 32 c
Mould Bay
iP 23 41 58 c
i 23 45 20
Penticton
eP 23 41 53
Resolute
eP 23 42 47 c
Schefferville
eP 23 45 17
Yellowknife
iP 23 41 44 c

FEBRUARY 28
Mould Bay
eP 05 15 19

FEBRUARY 28
U.S.C.G.S.
38.2N, 141.7E
Near coast of
northern Honshu,
Japan
H = 06 15 09.5
h = about 61 km
Mag 3.8 (CGS)

Mould Bay
eP 06 24 49
Resolute
eP 06 25 21 c

FEBRUARY 28
Resolute
eP 15 32 10 (d)

FEBRUARY 28
H = 20 10 24
Mag 1.5
Penticton
eP₁ 20 10 51.4
eS₁ 20 11 12.0
D = 168 km

MARCH 1
U.S.C.G.S.
34.8N, 119.3W
Ventura County,
California
H = 00 25 57.4
h = about 16 km
Mag 4 3/4 - 5 (PAS)
Penticton
iP 00 29 25
Mould Bay
eP 00 33 44

MARCH 1
U.S.C.G.S.
35.7N, 59.9E
Northeastern Iran
H = 03 20 02.4
h = about 33 km
Mag 4.8 (CGS)

Mould Bay
eP 03 31 02

MARCH 1
U.S.C.G.S.
15.6N, 93.1W
Near coast of
Chiapas, Mexico
H = 04 02 34
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 04 12 44 c
i 04 13 23
Yellowknife
i 04 11 20

MARCH 1
U.S.C.G.S.
18.2S, 177.9W
Fiji Islands region
H = 04 39 34.3
h = about 568 km
Mag 4.6 (CGS)
Penticton
iP 04 51 10 c

MARCH 1
Yellowknife
eP 09 58 55

MARCH 1
U.S.C.G.S.
41.2N, 142.9E
South of Hokkaido,
Japan
H = 10 45 55.7
h = about 41 km
Mag 5.1 (CGS)

Alert
eP 10 55 31
Mould Bay
eP 10 55 04
Penticton
eP 10 56 28

SEISMOLOGICAL BULLETIN - 1963

Resolute
eP 10 55 47 c
Schefferville
eP 10 58 07
Yellowknife
eP 10 55 57

MARCH 1
U.S.C.G.S.
41.9N, 80.8E
Sinkiang Province,
China
H = 11 55 22.5
h = about 33 km
Mould Bay
iP 12 05 37 c

MARCH 1
Mould Bay
eP 14 01 05

MARCH 1
U.S.C.G.S.
42.2N, 141.2E
Near south coast
of Hokkaido, Japan
H = 14 32 20
h = about 33 km
Mag 4.5 (CGS)
Mould Bay
eP 14 41 25
Resolute
eP 14 42 07 c

MARCH 1
Mould Bay
eP 19 07 31

MARCH 1
U.S.C.G.S.
1.4N, 29.6W
Atlantic Ocean
H = 19 14 13.1
h = about 33 km

Alert
eP 19 26 35
Mould Bay
eP 19 27 05
Resolute
eP 19 26 (35)
Shawinigan Falls
eP 19 24 11
Yellowknife
eP 19 26 58

MARCH 1
Yellowknife
e 21 10 12

MARCH 1
Canadian Arctic
H = 21 54 50.2
h = 30 km
Mag 1.8
Resolute
P_n 21 55 13.7
P₁ 21 55 15.9
S_n 21 55 32.0
S₁ 21 55 35.4
D = 160 km

MARCH 1
U.S.C.G.S.
22.9N, 144.2E
Volcano Islands region
H = 23 03 30.7
h = about 72 km
Mag 4.4 (CGS)
Mould Bay
eP 23 14 33

MARCH 2
H = 00 25 46
Mag 1.3
Penticton
iP₁ 00 26 13.1
iS₁ 00 26 33.8
D = 171 km

MARCH 2
U.S.C.G.S.
1.8S, 143.6E
North of New Guinea
H = 05 39 07.4
h = about 129 km
Mag 5.3 (CGS)
Mould Bay
eP 05 52 09

MARCH 2
Alert
eP 09 34 50
Banff
eP 09 35 37
Mould Bay
eP 09 34 11 c
S 09 40 46
Penticton
iP 09 35 29 c
Resolute
eP 09 34 58 c
Yellowknife
eP 09 34 58

MARCH 2
U.S.C.G.S.
46.0N, 153.0E
Kurile Islands region
H = 11 12 01.3
h = about 33 km
Mould Bay
eP 11 20 18
Resolute
eP 11 21 05 c
Yellowknife
eP 11 21 05

MARCH 2
U.S.C.G.S.
10.1N, 126.1E
Mindanao, Philippine
Islands region
H = 16 06 56.3
h = about 92 km
Mag 4.0 (CGS)

DOMINION OBSERVATORIES

Mould Bay
eP 16 19 29
Resolute
eP 16 19 56 c
Yellowknife
eP 16 20 07

MARCH 2
Penticton
eP 16 31 09
Port Hardy
eP 16 31 32
Victoria
eP 16 30 48.3

MARCH 2
Yellowknife
eP 17 37 23

MARCH 2
U. S. C. G. S.
10. 0N, 126. 0E
Mindanao, Philippine
Islands region
H = 17 27 38.3
h = about 67 km
Mag 3.9 (CGS)
Mould Bay
eP 17 40 13

MARCH 2
U. S. C. G. S.
6. 8N, 73. 0W
Colombia
H = 19 41 55.4
h = about 173 km
Mag 4.1 (CGS)
Mould Bay
eP 19 53 13 c

MARCH 2
U. S. C. G. S.
41°31'N, 75°46'W
A few miles north of
Scranton, Penn.
H = 20 24 32
Mag 3.4
Montreal
P_n 20 25 37
e 20 26 20
S₁ 20 26 45
D = 475 km
Ottawa
P_n 20 25 30
S_n 20 26 14
S₁ 20 26 33
D = 430 km
Seven Falls
L_g 20 27 56
D = 725 km
Shawinigan Falls
e 20 27 06
L_g 20 27 24
D = 605 km

MARCH 2
U. S. C. G. S.
14. 8N, 94. 0W
Off coast of
Chiapas, Mexico
H = 22 09 17
h = about 33 km
Mag 4.1 (CGS)
Mould Bay
eP 22 19 42

MARCH 2
U. S. C. G. S.
17. 1S, 175. 0W
Tonga Islands
H = 22 16 35.4
h = about 240 km
Mag 5.1 (CGS)
Mould Bay
eP 22 29 49
Penticton
iP 22 28 31 d

MARCH 3
U. S. C. G. S.
36. 7N, 71. 4E
Hindu Kush
H = 01 48 09.4
h = about 209 km
Mag 4.3 (CGS)
Mould Bay
iP 01 58 42 c

MARCH 3
U. S. C. G. S.
20. 4S, 69. 0W
Northern Chile
H = 02 08 14.6
h = about 110 km
Mag 4.3 (CGS)
Penticton
eP 02 20 28
Yellowknife
iP 02 21 03

MARCH 3
U. S. C. G. S.
54. 5N, 164. 9W
Unimak Island,
Aleutian Islands
H = 09 39 55.8
h = about 103 km
Mag 3.8 (CGS)
Mould Bay
eP 09 45 37

MARCH 3
H = 11 21 16
Mag 1.8
Port Hardy
iP₁ 11 21 38.6 d
iS₁ 11 21 55.6

MARCH 3
H = 11 22 10
Mag 1.8
Port Hardy
iP₁ 11 22 32.6 c
iS₁ 11 22 49.6

SEISMOLOGICAL BULLETIN - 1963

MARCH 3
U. S. C. G. S.
36. 4N, 71. 3E
Hindu Kush
H = 17 05 03.7
h = about 156 km
Mould Bay
eP 17 15 43 d

MARCH 3
U. S. C. G. S.
36. 7N, 90. 1W
Slight damage
southeast Missouri
H = 17 30 13.0
h = about 18 km
Mag 4 1/2 (PAL)
4.5 (CGS)

Banff
eP 17 35 23
Halifax
e 17 40 26
London
iP 17 32 23 c

Mould Bay
eP 17 38 00
S 17 47 05
Ottawa
eP 17 33 22
Penticton
eP 17 35 35
Resolute
eP 17 37 (20)
Schefferville
eP 17 35 27 d
Seven Falls
eP 17 34 14
Shawinigan Falls
eP 17 33 (57)
Yellowknife
eP 17 36 17

MARCH 3
U. S. C. G. S.
30. 7N, 136. 9E
South of Honshu,
Japan
H = 22 59 44.9
h = about 491 km

Alert
iP 23 09 48 c
Banff
eP 23 10 44
Mould Bay
iP 23 09 28 c
Penticton
iP 23 10 38 c
Port Hardy
eP 23 10 09 c
Resolute
iP 23 10 05 c
Victoria
eP 23 10 28
Yellowknife
iP 23 10 13 c

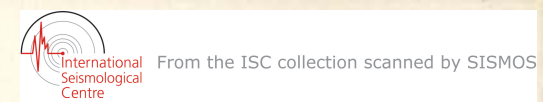
MARCH 4
49. 6°N, 114. 8°W
Crownsnest Pass region
H = 06 08 23
Mag 2.3
Banff
eP₁ 06 08 52.0
eS₁ 06 09 14.1
D = 181 km
Penticton
eP_n 06 09 13.0
D = 353 km

MARCH 4
U. S. C. G. S.
82. 9N, 7. 7W
North Polar region
H = 07 41 51.0
h = about 33 km
Mag 5.0 (CGS)

Alert
iP 07 43 26 d
iS 07 44 52
Banff
eP 07 49 37
Halifax
eP 07 49 (44)
London
iP 07 50 10 (c)
Mould Bay
iP 07 45 53
S 07 49 16
Ottawa
eP 07 49 46
Penticton
eP 07 49 57
Resolute
eP 07 45 36 (d)
Schefferville
eP 07 48 18
Seven Falls
eP 07 49 28 c
Shawinigan Falls
eP 07 49 34 c
Victoria
eP 07 50 04
Yellowknife
eP 07 48 02 d

MARCH 4
H = 10 23 14
Mag 85 km
Port Hardy
eP₁ 10 23 31.5
eS₁ 10 23 41.9
D = 85 km

MARCH 4
H = 10 40 59
Mag 2.0
Port Hardy
eP₁ 10 41 28.2
eS₁ 10 41 50.6
D = 184 km



DOMINION OBSERVATORIES

MARCH 4
U. S. C. G. S.
47.7N, 152.5E
Kurile Islands region
H = 12 37 44.6
h = about 140 km
Mag 4.3 (CGS)
Mould Bay
iP 12 45 39

MARCH 4
U. S. C. G. S.
46.3N, 153.1E
Kurile Islands region
H = 12 50 16.2
h = about 33 km
Mag 4.3 (CGS)
Mould Bay
eP 12 58 30
Resolute
e(P) 12 59 19 d

MARCH 4
U. S. C. G. S.
24.2N, 121.7E
Formosa
H = 13 38 41.0
h = about 33 km
Mag 4.8 (CGS)
Alert
eP 13 50 (11)
Banff
eP 13 51 38
Mould Bay
iP 13 49 57
i 13 50 10
S 13 59 31
Penticton
iP 13 51 33
Resolute
eP 13 50 40
Victoria
eP 13 51 26
Yellowknife
eP 13 51 02

MARCH 4
U. S. C. G. S.
35.2N, 25.4E
Crete
H = 15 10 19.2
h = about 42 km
Mag 4.8 (CGS)
Alert
eP 15 19 48
Banff
eP 15 23 04
Halifax
eP 15 21 00
Mould Bay
eP 15 21 06 d
S 15 29 59
Penticton
eP 15 23 18
Resolute
eP 15 20 48
Schefferville
eP 15 20 44 c
Seven Falls
eP 15 21 21
Shawinigan Falls
eP 15 21 31
Victoria
eP 15 23 26
Yellowknife
iP 15 22 12

MARCH 4
U. S. C. G. S.
4.5S, 81.6W
Off coast of northern Peru
H = 15 43 04.0
h = about 33 km
Mag 5.4 (CGS)
Alert
eP 15 55 47
S 16 06 (12)
Banff
eP 15 53 26
London
iP 15 51 35 c

Mould Bay
eP 15 55 29
i 15 58 42
S 16 05 48
Penticton
iP 15 53 29 c
Port Hardy
eP 15 54 00 c
Resolute
eP 15 55 07 c
Schefferville
eP 15 53 10
Seven Falls
eP 15 52 13
Shawinigan Falls
eP 15 52 06
Victoria
eP 15 53 37 c
Yellowknife
eP 15 54 21

MARCH 4
Mould Bay
eP 17 07 23

MARCH 4
H = 17 12 21
Mag 1.9
Port Hardy
iP₁ 17 12 49.5 c
eS₁ 17 13 11.0
D = 176 km

MARCH 4
U. S. C. G. S.
15.7S, 75.3W
Near coast of southern Peru
H = 18 31 51.9
h = about 45 km
Mag 4.9 (CGS)
Mould Bay
eP 18 45 13 c
Penticton
iP 18 43 36 c

SEISMOLOGICAL BULLETIN - 1963

Resolute
eP 18 44 53 c
Schefferville
eP 18 43 03
Seven Falls
eP 18 42 13
Yellowknife
iP 18 44 18

MARCH 5
U. S. C. G. S.
29.2N, 81.2E
Nepal
H = 02 35 07.8
h = about 33 km
Mould Bay
eP 02 46 40

MARCH 5
U. S. C. G. S.
11.0N, 90.4W
South of Guatemala
H = 02 48 29.9
h = about 33 km
Mag 4.1 (CGS)
Mould Bay
eP 02 59 25

MARCH 5
U. S. C. G. S.
11.5N, 140.6E
Mariana Islands region
H = 04 54 51.4
h = about 33 km
Mag 4.7 (CGS)
Mould Bay
iP 05 07 07 d

MARCH 5
U. S. C. G. S.
4.5S, 81.5W
Off coast of northern Peru
H = 07 05 01.7
h = about 31 km
Mag 5.6 (CGS)

Alert
eP 07 17 47 c
Banff
eP 07 15 26
London
iP 07 13 34
Mould Bay
eP 07 17 27 c
Ottawa
eP 07 13 52
Penticton
iP 07 15 28 c
Port Hardy
eP 07 15 59
Resolute
eP 07 17 05 (d)
Schefferville
eP 07 15 09
Seven Falls
eP 07 14 14
Shawinigan Falls
eP 07 14 04
Victoria
eP 07 15 35
Yellowknife
eP 07 16 19

MARCH 5
U. S. C. G. S.
36.1N, 26.2E
Aegean Sea
H = 07 53 39.2
h = about 77 km
Mould Bay
eP 08 04 18

MARCH 5
Canadian Arctic
H = 15 21 53.5
Mag 2.4
Resolute
P₁ 15 22 33
i 15 22 55
S₁ 15 22 03
D = 246 km

MARCH 5
Mould Bay
eP 21 25 09

MARCH 6
Penticton
eP 01 18 44

MARCH 6
Mould Bay
eP 01 35 22

MARCH 6
Canadian Arctic
H = 01 50 38.9
Mag 2.2
Yellowknife
P₁ 01 50 56
i 01 50 59
S₁ 01 51 09
D = 107 km

MARCH 6
U. S. C. G. S.
28.9N, 132.2E
Ryukyu Islands
H = 04 37 44.5
h = about 55 km
Mag 4.4 (CGS)
Alert
eP 04 48 44 d
Mould Bay
eP 04 48 29 d

DOMINION OBSERVATORIES

Resolute eP 04 49 05 d	Mould Bay eP 23 32 41	MARCH 7 U. S. C. G. S. 27. 3S, 113. 0W Easter Island region H = 11 41 29. 6 h = about 33 km Mag 4. 9 (CGS) Penticton eP 11 53 19
MARCH 6 U. S. C. G. S. 53. 8N, 161. 2E Near east coast of Kamchatka H = 06 55 44. 3 h = about 33 km Mag 4. 1 (CGS) Mould Bay eP 07 02 44 c Resolute eP 07 03 37 c	MARCH 7 H = 01 57 48 Mag 1. 3 Penticton eP ₁ 01 58 14. 8 eS ₁ 01 58 35. 4 D = 168 km	MARCH 7 U. S. C. G. S. 44. 3S, 75. 3W Near coast of southern Chile H = 12 16 28. 5 h = about 45 km Mag 5. 6 (CGS) Alert eP' 12 35 (23) London eP 12 29 09 c Mould Bay eP' 12 35 20 Ottawa eP 12 29 20 Sept Iles eP 12 29 44 Seven Falls eP 12 29 29
MARCH 6 Yellowknife eP 08 11 09	MARCH 7 U. S. C. G. S. 27. 0S, 113. 5W Approximately 500 km west of Easter Island H = 05 22 01. 1 h = about 33 km Mag 6 3/4 (PAS) 6 3/4 (BRK) 5. 6 (CGS) London iP 05 33 46 c Mould Bay eP 05 35 58 Ottawa eP 05 34 14 iS 05 44 14 Penticton eP 05 33 46 Port Hardy P 05 34 01	MARCH 7 U. S. C. G. S. 50. 8N, 178. 6E Rat Islands, Aleutian Islands H = 13 43 01. 2 h = about 33 km Mag 4. 1 (CGS) Mould Bay eP 13 49 50 c Penticton eP 13 50 27 Resolute eP 13 50 (42)
MARCH 6 U. S. C. G. S. 33. 8N, 72. 6E West Pakistan H = 08 35 03. 7 h = about 36 km Mag 4. 3 (CGS) Mould Bay eP 08 46 13 c	MARCH 6 Yellowknife e 23 15 30	MARCH 7 U. S. C. G. S. 36. 1N, 71. 2E Hindu Kush H = 21 49 32. 6 h = about 202 km Alert e(P) 21 59 16 Mould Bay eP 22 00 09 i 22 00 36 Penticton iP 22 02 32 d Schefferville eP 22 01 36 (d) Yellowknife eP 22 01 30
MARCH 6 U. S. C. G. S. 37. 0N, 140. 8E Near east coast of Central Honshu, Japan H = 23 23 03. 1 h = about 71 km Mag 4. 1 (CGS)	MARCH 6 Yellowknife e 23 15 30	MARCH 8 U. S. C. G. S. 76°36'N, 94°20'W Grinnell Peninsula, Devon Island, N. W. T. H = 00 14 15. 7 h = 33 km (USCGS) Unified magnitude 4. 5 (USCGS) Alert P _n 00 16 12. 1 S _n 00 17 42 D = 913 km London e 00 21 06 e 00 28 11 Lg 00 31 54 D = 3760 km Mould Bay eP _n 00 15 39. 2 i 00 15 40 S _n 00 16 44 D = 645 km Ottawa P 00 20 43 e 00 27 04 Lg 00 30 52 D = 3535 km Penticton eP 00 20 12 e 00 26 55 Lg 00 29 25 D = 3170 km

SEISMOLOGICAL BULLETIN - 1963

Schefferville eP 13 53 (18) Sept Iles eP 13 53 41 Yellowknife eP 13 50 09	MARCH 7 U. S. C. G. S. 44. 8N, 123. 4W Northwestern Oregon H = 23 53 25. 8 h = about 33 km Mag 4. 6 (CGS) Alert eP 24 01 26 c Mould Bay eP 23 59 56 Penticton eP 23 54 43 Port Hardy eP 23 55 00 Victoria iP 23 54 20	Resolute P _n 00 14 46. 0 S _n 00 15 - D = 210 km Schefferville eP 00 19 30 S 00 23 47 Lg 00 26 40 D = 2672 km Sept Iles e 00 20 27 i 00 25 43 Lg 00 29 00 D = 3135 Seven Falls e 00 21 (13) e 00 26 (30) e 00 30 (18) D = 3390 km
MARCH 7 270 miles from London, Ontario H = 14 59 28 h = about 0 km Mag 3. 4 London P _n 14 59 28 P ₁ 15 00 37. 6 S _n 15 01 16 S ₁ 15 01 30. 5 D = 435 km	MARCH 7 U. S. C. G. S. 76°36'N, 94°20'W Grinnell Peninsula, Devon Island, N. W. T. H = 00 14 15. 7 h = 33 km (USCGS) Unified magnitude 4. 5 (USCGS) Alert P _n 00 16 12. 1 S _n 00 17 42 D = 913 km London e 00 21 06 e 00 28 11 Lg 00 31 54 D = 3760 km Mould Bay eP _n 00 15 39. 2 i 00 15 40 S _n 00 16 44 D = 645 km Ottawa P 00 20 43 e 00 27 04 Lg 00 30 52 D = 3535 km Penticton eP 00 20 12 e 00 26 55 Lg 00 29 25 D = 3170 km	MARCH 8 76°36'N, 94°20'W Aftershock of the earthquake on Devon Island at 00 14 15. 7 H = 01 44 29. 5 h = 32 km Mag 2. 5 Resolute P _n 01 44 54 P ₁ 01 44 59 i 01 45 16 S _n 01 45 18 S ₁ 01 45 24 D = 210 km
MARCH 7 U. S. C. G. S. 50. 8N, 178. 6E Rat Islands, Aleutian Islands H = 13 43 01. 2 h = about 33 km Mag 4. 1 (CGS) Mould Bay eP 13 49 50 c Penticton eP 13 50 27 Resolute eP 13 50 (42)	MARCH 8 U. S. C. G. S. 19. 2S, 169. 7E New Hebrides Islands H = 02 44 31. 5 h = about 33 km Mag 5. 3 (CGS) Penticton iP 02 57 41 c Schefferville eP' 03 03 28	

DOMINION OBSERVATORIES

Sept Iles iP' 03 03 31 Shawinigan Falls eP' 03 03 23 Victoria eP 02 57 29	Resolute P _n 12 59 25 P ₁ 12 59 30 i 12 59 47 S _n 12 59 49 S ₁ 12 59 55 D = 210 km	London iP 15 16 24 Mould Bay eP 15 18 54 Ottawa eP 15 16 08 Resolute eP 15 18 26 (d) Schefferville eP 15 16 20 Sept Iles eP 15 15 58 Seven Falls eP 15 15 (56) Shawinigan Falls eP 15 16 01 Victoria eP 15 19 12 Yellowknife eP 15 18 46
MARCH 8 U. S. C. G. S. 19. 2S, 169. 6E New Hebrides Islands H = 03 24 57. 2 h = about 49 km Mag 4. 8 (CGS) Victoria eP 03 37 53	MARCH 8 U. S. C. G. S. 21. 8S, 176. 5W Tonga Islands region H = 13 59 40. 1 h = about 137 km Mag 4. 6 (CGS) Penticton iP 14 12 11 d	MARCH 8 Canadian Arctic H = 18 07 40. 1 Mag 1. 9 Alert P ₁ 18 08 02. 5 S ₁ 18 08 19. 5 D = 139 km
MARCH 8 U. S. C. G. S. 19. 3S, 169. 6E New Hebrides Islands H = 03 33 03. 4 h = about 33 km Penticton eP 03 46 02	MARCH 8 76°36'N, 94°20'W Aftershock of the Devon Island earthquake at 00 14 15. 7 H = 13 59 59. 5 h = 32 km Mag 2. 2 Resolute P _n 14 00 24 P ₁ 14 00 29 i 14 00 46 S _n 14 00 48 S ₁ 14 00 54 D = 210 km	MARCH 8 U. S. C. G. S. 9. 0N, 84. 1W Near west coast of Costa Rica H = 22 26 26 h = about 33 km Mould Bay eP 22 37 35 Resolute eP 22 37 10 (d) Schefferville eP 22 35 01 Seven Falls eP 22 33 (57) Yellowknife eP 22 36 15
MARCH 8 U. S. C. G. S. 44. 8N, 110. 3W Yellowstone National Park, Wyoming H = 08 35 49. 2 h = about 33 km Mag 3. 8 (CGS) Penticton eP 08 37 44	MARCH 8 U. S. C. G. S. 1. 1N, 29. 9W Mid-Atlantic Ocean H = 15 06 05. 3 h = about 33 km Mag 5. 2 (CGS) Alert eP 15 18 26 Banff eP 15 18 44 Halifax eP 15 15 21	
MARCH 8 76°36'N, 94°20'W Aftershock of the Devon Island earthquake at 00 14 15. 7 H = 12 59 00. 5 h = 32 km Mag 2. 4		

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MARCH 9 U. S. C. G. S. 21. 9N, 62. 0E Arabian Sea H = 02 17 39. 5 h = about 33 km Mag 5. 1 (CGS) Alert eP 02 29 06 c Mould Bay iP 02 29 58 c Resolute eP 02 30 01 (d) Yellowknife iP 02 31 05 d	Sept Iles eP 06 56 42	MARCH 9 U. S. C. G. S. 21. 5S, 179. 0W Fiji Islands region H = 22 43 50. 5 h = about 529 km Mag 4. 4 (CGS) Penticton iP 22 55 45
MARCH 9 U. S. C. G. S. 8. 9N, 126. 3E Near coast of Mindanao, Philippine Islands H = 05 26 58. 4 h = about 87 km Mag 4. 3 (CGS) Mould Bay eP 05 39 35 c Resolute eP 05 40 02	MARCH 9 U. S. C. G. S. 3. 2S, 147. 0E Bismarck Sea H = 16 23 44. 3 h = about 33 km Mag 4. 8 (CGS) Mould Bay eP 16 37 (00) Penticton eP 16 37 01 Yellowknife eP 16 37 12	MARCH 10 U. S. C. G. S. 56. 2N, 153. 8W Kodiak Islands, Alaska H = 01 26 04. 1 h = about 33 km Mag 5. 1 (CGS) Alert iP 01 32 55 c S 01 38 (25) London iP 01 34 31 c Mould Bay iP 01 31 16 d S 01 35 30 Ottawa eP 01 34 40 Penticton iP 01 30 53 c Port Hardy eP 01 29 54 Resolute eP 01 32 01 c Schefferville eP 01 34 26 c Sept Iles iP 01 34 51 c Seven Falls eP 01 34 49 Shawinigan Falls eP 01 34 45 Yellowknife iP 01 30 43 d
MARCH 9 U. S. C. G. S. 46. 1N, 141. 0E Kurile Islands region H = 06 44 28. 2 h = about 31 km Mag 4. 8 (CGS) Alert eP 06 53 29 Mould Bay eP 06 53 05 S 07 00 03 Resolute eP 06 53 50 (d) Schefferville eP 06 56 17	MARCH 9 U. S. C. G. S. 6. 7N, 123. 9E Near south coast of Mindanao, Philippine Islands H = 16 56 13 h = about 33 km Mould Bay eP 17 09 08	MARCH 9 U. S. C. G. S. 3. 2S, 147. 1E New Britain region H = 18 55 49. 0 h = about 33 km Mag 4. 9 (CGS) Mould Bay eP 19 09 12

DOMINION OBSERVATORIES

MARCH 10
 U. S. C. G. S.
 24.7N, 122.1E
 Near east coast
 of Formosa
 H = 02 53 33.0
 Mag 4.9 (CGS)
 Alert
 eP 03 05 01
 Mould Bay
 eP 03 04 57
 Penticton
 eP 03 06 20
 Resolute
 eP 03 05 29
 Yellowknife
 iP 03 05 52 d

MARCH 10
 U. S. C. G. S.
 14.2N, 89.5W
 Near coast of
 El Salvador
 H = 06 04 33
 h = about 33 km
 Mag 4.3 (CGS)
 Mould Bay
 eP 06 15 05
 Penticton
 iP 06 12 29
 Resolute
 eP 06 14 42 d
 Schefferville
 eP 06 12 48
 Yellowknife
 iP 06 13 36 c

MARCH 10
 49.6°N, 127.6°W
 West of Vancouver Island
 H = 06 21 29
 Mag 2.4
 Albern
 iP_n 06 22 00.8
 iS_n 06 22 35.3
 D = 204 km

Port Hardy
 eP₁ 06 21 49.4
 iS₁ 06 22 04.7
 D = 125 km
 Victoria
 eP_n 06 22 18.0
 D = 344 km

MARCH 10
 U. S. C. G. S.
 29.9S, 71.2W
 Near coast of
 Central Chile
 H = 10 51 48.1
 h = about 70 km
 Mag 6 - 6 1/4 (PAS)
 5.5 (CGS)
 Halifax
 eP 11 03 22 c
 London
 (e)P 11 03 12
 Mould Bay
 eP 11 06 (14)
 Ottawa
 eP 11 03 24
 Penticton
 eP 11 04 38
 Schefferville
 eP 11 04 15
 Sept Iles
 eP 11 03 51
 Seven Falls
 iP 11 03 34 c
 Shawinigan Falls
 eP 11 03 31
 Yellowknife
 eP 11 05 19

MARCH 10
 U. S. C. G. S.
 39.4N, 141.7E
 Near coast of
 Honshu, Japan
 H = 11 50 26.3
 h = about 60 km
 Mag 4.6 (CGS)

Mould Bay
 eP 11 59 47 c
 Penticton
 iP 12 01 09
 Resolute
 eP 12 00 29 c
 Sept Iles
 eP 12 03 09

MARCH 10
 U. S. C. G. S.
 2.4N, 126.6E
 Celebes Sea
 H = 13 51 04.3
 h = about 41 km
 Mould Bay
 eP 14 04 16
 Resolute
 eP 14 04 43 c

MARCH 10
 Mould Bay
 eP 21 58 28
 i 21 59 22

MARCH 11
 U. S. C. G. S.
 38.1N, 29.3E
 Turkey
 H = 07 27 22.0
 h = about 33 km
 Mag 5.5 (CGS)
 Alert
 eP 07 36 35 (c)
 London
 iP 07 39 17 c
 Mould Bay
 eP 07 37 55
 Ottawa
 iP 07 38 51 c
 Penticton
 eP 07 40 07
 Resolute
 eP 07 37 38 d
 Schefferville
 eP 07 37 46
 Sept Iles
 iP 07 38 02 c

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Seven Falls
 eP 07 38 27
 Shawinigan Falls
 iP 07 38 36 c
 Yellowknife
 iP 07 39 06 d

MARCH 11
 U. S. C. G. S.
 18.7S, 177.6W
 Fiji Islands region
 H = 09 02 19.8
 h = about 402 km
 Mag 4.8 (CGS)
 Penticton
 eP 09 14 12

MARCH 11
 U. S. C. G. S.
 36.7N, 71.1E
 Hindu Kush
 H = 10 27 42.1
 h = about 189 km
 Mag 4.7 (CGS)
 Mould Bay
 eP 10 38 17 c
 i 10 39 15
 Yellowknife
 iP 10 39 37

MARCH 11
 U. S. C. G. S.
 5.1N, 76.4W
 Central Colombia
 H = 11 30 16.0
 h = about 95 km
 Mag 4.3 (CGS)
 Yellowknife
 eP 11 40 32

MARCH 11
 Mould Bay
 eP 15 32 16
 Resolute
 eP 15 32 58 c

MARCH 11
 U. S. C. G. S.
 17.6N, 100.8W
 Guerrero Mexico
 H = 15 30 07.6
 h = about 33 km
 Mag 4.8 (CGS)
 Mould Bay
 eP 15 40 06
 Penticton
 iP 15 37 00 d
 Yellowknife
 iP 15 38 28 d

MARCH 11
 Mould Bay
 eP 19 06 48
 Yellowknife
 eP 19 07 08

MARCH 11
 Schefferville
 eP 19 24 10
 Seven Falls
 e 19 25 33

MARCH 12
 U. S. C. G. S.
 45.3N, 109.6W
 Southern Montana
 H = 03 41 21.8
 h = about 33 km
 Penticton
 eP 03 42 10
 Yellowknife
 eP 03 45 (24)

MARCH 12
 57.0°N, 60.0°W
 About 50 miles off
 the coast of Labrador,
 Nfld.
 H = 07 06 08.5
 Mag 3.8

Schefferville
 P_n 07 07 13
 S_n 07 08 03.5
 L_g 07 08 27
 D = 490 km
 Sept Iles
 e 07 08 02
 S_n 07 09 21
 L_g 07 10 08
 D = 850 km
 Seven Falls
 L_g 07 12 10
 D = 1275 km

MARCH 12
 U. S. C. G. S.
 53.9N, 160.6E
 Kamchatka
 H = 08 05 49.8
 h = about 33 km
 Mag 4.7 (CGS)

MARCH 12
 Alert
 eP 08 13 40
 Mould Bay
 iP 08 12 51c
 Penticton
 eP 08 14 18
 Resolute
 eP 08 13 43 c
 Schefferville
 eP 08 16 25
 Sept Iles
 eP 08 16 53
 Seven Falls
 eP 08 17 00
 Yellowknife
 iP 08 13 42 d

MARCH 12
 Resolute
 e(P) 08 49 (05)

DOMINION OBSERVATORIES

MARCH 12
U. S. C. G. S.
16. 0S, 172. 6W
Tonga Islands region
H = 13 21 39. 2
h = about 33 km
Mag 5. 3 (CGS)
Penticton
iP 13 33 47 c

MARCH 12
Resolute
eP 14 07 (56)

MARCH 12
U. S. C. G. S.
71. 7N, 1. 4W
Jan Mayen Island
region
H = 15 18 00. 0
h = about 33 km
Mag 3. 9 (CGS)
Mould Bay
eP 15 23 (46)
Resolute
eP 15 23 (26)

MARCH 12
Resolute
e(P) 16 08 53

MARCH 12
Resolute
eP 19 24 (18)

MARCH 12
65°40'N, 132°00'W
About 100 miles east
of Whitehorse, Yukon
Territory
H = 20 04 24
Mag 4. 3

MARCH 13
Penticton
eP 01 15 02

MARCH 13
Resolute
e(P) 03 13 40

MARCH 13
U. S. C. G. S.
19. 5N, 69. 5W
Dominican Republic
H = 10 39 19. 1
h = about 33 km
Mag 4. 1 (CGS)
Mould Bay
eP 10 49 37

MARCH 13
U. S. C. G. S.
33. 1N, 141. 4E
Off coast of
southern Honshu,
Japan
H = 10 54 15. 8
h = about 47 km
Mag 4. 1 (CGS)
Mould Bay
eP 11 04 21
Resolute
e(P) 11 05 (02)

MARCH 14
Mould Bay
eP 00 36 17
Schefferville
eP 00 34 34
Yellowknife
eP 00 35 54

MARCH 14
Resolute
eP 01 15 (53)
Yellowknife
eP 01 16 08

MARCH 14
U. S. C. G. S.
25. 6S, 137. 6E
Northern Territory,
Australia
H = 01 57 29. 3
h = about 33 km
Resolute
eP' 02 16 30 (d)

MARCH 14
U. S. C. G. S.
19. 0N, 120. 4E
Off coast of northern
Luzon, Philippine
Islands
H = 08 00 15. 6
h = about 51 km
Mag 5. 0 (CGS)
Alert
eP 08 12 13 (d)
Mould Bay
eP 08 12 11 d
Penticton
iP 08 13 29
Port Hardy
eP 08 13 06
Resolute
eP 08 12 41 d
Yellowknife
iP 08 13 02 d

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MARCH 14
Mould Bay
eP 10 56 10
i 10 56 16
Resolute
eP 10 55 (54)

MARCH 14
U. S. C. G. S.
53. 0N, 164. 9W
Fox Islands,
Aleutian Islands
H = 18 13 19. 1
h = about 33 km
Mag 4. 6 (CGS)
Yellowknife
eP 18 19 08

MARCH 14
U. S. C. G. S.
46. 5N, 153. 4E
Kurile Islands
H = 18 30 40. 6
h = about 32 km
Mag 4. 7 (CGS)
Alert
eP 18 39 33 c
Resolute
eP 18 39 41 c
Yellowknife
iP 18 39 41

MARCH 15
U. S. C. G. S.
5. 0S, 129. 6E
Banda Sea
H = 00 04 01. 3
h = about 295 km
Mag 4. 8 (CGS)
Mould Bay
eP 00 17 13 d
Seven Falls
eP' 00 22 40

MARCH 15
U. S. C. G. S.
21. 7N, 45. 4W
North Atlantic Ocean
H = 05 46 32. 8
h = about 33 km
Mag 4. 9 (CGS)
Alert
iP 05 56 46
London
iP 05 53 38 d
Mould Bay
eP 05 57 14
Penticton
eP 05 57 03
Schefferville
eP 05 53 39

MARCH 15
U. S. C. G. S.
8. 4N, 126. 4E
Mindanao, Philippine
Islands
H = 00 16 01. 3
h = about 117 km
Mag 5. 0 (CGS)
Alert
eP 00 28 45
London
eP' 00 34 (46)
Mould Bay
eP 00 28 37 c
Penticton
eP 00 29 30
Resolute
eP 00 29 04 c
Sept Iles
eP' 00 34 41
Seven Falls
eP' 00 34 44
Yellowknife
eP 00 29 13

MARCH 15
U. S. C. G. S.
17. 5N, 119. 8E
Off west coast of
Luzon, Philippine
Islands
H = 10 53 59. 8
h = about 33 km
Mag 4. 4 (CGS)
Mould Bay
eP 11 06 05
Resolute
eP 11 06 35
Yellowknife
eP 11 06 54

MARCH 15
U. S. C. G. S.
42. 3N, 142. 3E
Near south coast of
Hokkaido, Japan
H = 18 50 34. 7
h = about 33 km
Mag 4. 0 (CGS)
Resolute
eP 19 00 21 c

MARCH 15
Seven Falls
eP 05 53 04
Shawinigan Falls
eP 05 53 (11)
Yellowknife
eP 05 56 46

DOMINION OBSERVATORIES

MARCH 15
H = 23 06 02
Mag 2.3
Penticton
eP_N 23 06 41.0
eS_N 23 07 35
D = 266 km

MARCH 16
Resolute
e(P) 02 11 35
Yellowknife
eP 02 12 05

MARCH 16
Mould Bay
eP 02 35 19
Resolute
eP 02 35 (25)

MARCH 16
U. S. C. G. S.
26.1N, 92.8E
Assam, India
H = 03 35 22.5
h = about 48 km
Mag 4.5 (CGS)
Mould Bay
eP 03 47 06 c
Resolute
e(P) 03 47 25

MARCH 16
Mould Bay
eP 05 14 55
Resolute
eP 05 15 38

MARCH 16
U. S. C. G. S.
46.5N, 154.7E
Kurile Islands region
H = 08 44 48.3
h = about 26 km
Mag 7 (PAS)
7 3/4 (BRK)
6 3/4 (PAL)
6.2 (CGS)

Alert
eP 08 53 40
S 09 00 48
Banff
eP 08 54 23

Halifax
eP 08 57 14
London
eP 08 56 46

Mould Bay
iP 08 52 59 c
eS 08 59 48
Ottawa
eP 08 57 46

Penticton
iP 08 54 15
Port Hardy
eP 08 53 38
Resolute
eP 08 53 47 c
Schefferville
eP 08 56 17 (d)
Sept Iles
iP 08 56 41 c
Seven Falls
eP 08 56 47

Shawinigan Falls
iP 08 56 48 c
Victoria
eP 08 54 02 c
Yellowknife
iP 08 53 45 c

MARCH 16
Ottawa
eP 09 23 (45)
Sept Iles
eP 09 23 43

MARCH 16
Penticton
eP 09 31 40

MARCH 16
Penticton
eP 09 45 13

MARCH 16
Resolute
eP 13 55 16 c

MARCH 16
Resolute
eP 14 43 48 c

MARCH 16
Mould Bay
eP 15 42 23

MARCH 16
Sept Iles
eP 15 55 28

MARCH 16
Mould Bay
eP 18 35 42

MARCH 16
U. S. C. G. S.
20.7S, 174.6W
Tonga Islands
H = 21 40 09.0
h = about 33 km
Mag 5.0 (CGS)
Penticton
eP 21 52 43

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MARCH 16
U. S. C. G. S.
38.9N, 71.8E
Tadzhik, S. S. R.
H = 22 28 56.7
h = about 73 km
Mag 5.0 (CGS)
Mould Bay
iP 22 39 24 d
Penticton
iP 22 41 58 c
Resolute
eP 22 39 39 (d)
Schefferville
eP 22 41 (00)
Yellowknife
iP 22 40 53 d

MARCH 17
U. S. C. G. S.
7.1N, 82.2W
South of Panama
H = 06 18 52.4
h = about 53 km
Mag 4.6 (CGS)
Mould Bay
eP 06 30 11
Penticton
eP 06 27 59
Resolute
eP 06 29 46
Yellowknife
iP 06 28 55 d

MARCH 17
H = 08 23 17
Mag 1.3
Penticton
iP₁ 08 23 25.5
iS₁ 08 23 31.6
D = 50 km

MARCH 17
U. S. C. G. S.
46.0N, 155.0E
Kurile Islands region
H = 08 42 12.3
h = about 35 km
Mag 4.7 (CGS)
Alert
eP 08 51 09
Mould Bay
eP 08 50 (25)
Penticton
iP 08 51 39
Resolute
eP 08 51 13 d
Yellowknife
iP 08 51 10 c

MARCH 17
U. S. C. G. S.
37.4S, 78.2E
Indian Ocean
H = 10 32 19.7
h = about 33 km
Yellowknife
eP' 10 52 18

MARCH 17
U. S. C. G. S.
46.2N, 155.6E
Kurile Islands
H = 13 08 55.0
h = about 33 km
Resolute
eP 13 17 51

MARCH 17
U. S. C. G. S.
39.5N, 21.5E
Greece
H = 14 17 25.9
h = about 78 km
Mag 4.8 (CGS)
Alert
eP 14 26 16 d

Mould Bay
eP 14 27 39
Penticton
eP 14 29 56
Resolute
eP 14 27 17 d
Seven Falls
eP 14 27 45
Yellowknife
iP 14 28 45 d

MARCH 17
U. S. C. G. S.
64.9N, 174.9W
Eastern Siberia
H = 19 38 20.1
h = about 33 km
Mould Bay
eP 19 42 (58)
Yellowknife
eP 19 43 48

MARCH 17
U. S. C. G. S.
44.8N, 110.3W
Yellowstone National
Park, Wyoming
H = 22 10 36.2
h = about 33 km
Penticton
eP 22 14 13

MARCH 18
Mould Bay
eP 00 55 42

MARCH 18
Mould Bay
e 04 59 (51)

DOMINION OBSERVATORIES

MARCH 18
U. S. C. G. S.
30.7N, 42.1W
North Atlantic Ocean
H = 09 47 59
h = about 33 km
Mag 4.3 (CGS)
Mould Bay
eP 09 57 45

MARCH 18
U. S. C. G. S.
24.1N, 5.0E
Southern Algeria
H = 10 02 00.8
h = about 0
Sept Iles
iP 10 12 11 d
Yellowknife
eP 10 14 19

MARCH 18
U. S. C. G. S.
15.7S, 178.4W
Fiji Islands region
H = 13 16 23.5
h = about 561 km
Penticton
iP 13 27 52 c
Yellowknife
eP 13 28 35

MARCH 18
Yellowknife
e 14 26 40

MARCH 19
U. S. C. G. S.
18.9N, 145.3E
Mariana Islands region
H = 05 11 08.2
h = about 220 km
Mag 4.0 (CGS)
Alert
eP 05 22 45 c
Mould Bay
eP 05 22 16
Yellowknife
eP 05 22 43

MARCH 19
U. S. C. G. S.
8.3N, 126.6E
Near east coast of
Mindanao, Philippine
Islands
H = 19 08 08.1
h = about 109 km
Mag 4.2 (CGS)
Mould Bay
eP 19 20 46
Resolute
eP 19 21 (13)

MARCH 19
U. S. C. G. S.
19.9S, 179.1W
Fiji Islands region
H = 04 43 13.5
h = about 680 km
Mag 5.2 (CGS)
Penticton
iP 04 54 50 c
Resolute
eP' 05 00 (24)

MARCH 19
Yellowknife
eP 04 55 32
e 04 57 45

MARCH 20
Yellowknife
eP 06 45 40
e 06 47 18

MARCH 20
U. S. C. G. S.
46.4N, 154.5E
Kurile Islands region
H = 07 04 18.0
h = about 16 km
Mag 5.2 (CGS)
Alert
eP 07 13 13 (d)
Mould Bay
eP 07 12 31
Penticton
iP 07 13 48 c
Resolute
eP 07 13 20 d
Schefferville
eP 07 15 50 c
Seven Falls
eP 07 16 (20)
Yellowknife
iP 07 13 18 c

MARCH 20
U. S. C. G. S.
44.9N, 110.7W
Yellowstone National
Park, Wyoming
H = 11 38 33.1
h = about 33 km
Mag 4.1 (CGS)
Penticton
eP 11 39 45
Yellowknife
eP 11 42 34

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MARCH 20
Penticton
eP 11 49 01

MARCH 20
U. S. C. G. S.
44.6N, 110.5W
Yellowstone National
Park, Wyoming
H = 12 32 26.0
h = about 33 km
Mag 4.0 (CGS)
Penticton
eP 12 33 42
Yellowknife
eP 12 36 30

MARCH 20
Resolute
eP 13 31 35 (d)

MARCH 20
U. S. C. G. S.
11.9N, 93.1E
Andaman Islands region
H = 14 41 48.2
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 14 54 46 d
Resolute
eP 14 55 03 c

MARCH 20
U. S. C. G. S.
2.4S, 138.4E
Western New Guinea
H = 16 38 55.8
h = about 40 km
Mag 5.5 (CGS)
Mould Bay
eP 16 52 16
Resolute
eP 16 52 45 (d)
Yellowknife
iP 16 52 40 d

MARCH 20
Yellowknife
P_n 09 25 18
i 09 26 57
e 09 28 36
D = 2122 km

MARCH 21
U. S. C. G. S.
36.5N, 140.9E
Near east coast of
Honshu, Japan
H = 04 00 11.1
h = about 50 km
Mag 5.2 (CGS)
Alert
eP 04 10 19 (c)
Mould Bay
iP 04 09 54 c
i 04 13 05
Penticton
iP 04 11 12
Resolute
iP 04 10 35 c
Schefferville
eP 04 12 48
Sept Iles
iP 04 13 09 c
Yellowknife
iP 04 10 43 c

MARCH 21
81°18'N, 103°15'W
About 100 miles north
of Ellef Ringnes Island,
N.W.T.
H = 09 20 57.5
Mag 4.1
Alert
P_n 09 22 23.5
S_n 09 23 25.0
D = 660 km
Mould Bay
P_n 09 22 23.8
S_n 09 23 25.1
D = 660 km
Resolute
P_n 09 22 36.5
S_n 09 23 50.5
D = 765 km

MARCH 21
U. S. C. G. S.
50.6N, 129.4W
Vancouver Island region
H = 18 19 22.7
h = about 33 km
Mag 4.0 (CGS)
Alberni
iP_n 18 20 07.6
D = 344 km
Banff
eP 18 21 33
Mould Bay
eP 18 24 53
Penticton
iP_n 18 20 58.6
D = 760 km
Port Hardy
iP₁ 18 19 45.6
iS₁ 18 20 05.9
D = 166 km
Victoria
eP 18 20 23.7
D = 476 km
Yellowknife
iP 18 22 43 d

MARCH 21
U. S. C. G. S.
47.0N, 155.6E
Kurile Islands
H = 23 35 55.4
h = about 69 km
Mag 4.9 (CGS)
Mould Bay
eP 23 43 56
Resolute
eP 23 44 45 d
Yellowknife
iP 23 44 41 c

DOMINION OBSERVATORIES

MARCH 22
 U. S. C. G. S.
 36.7N, 139.5E
 Honshu, Japan
 H = 02 38 50.1
 h = about 83 km
 Mag 4.3 (CGS)
 Mould Bay
 eP 02 48 31
 Resolute
 eP 02 49 12 d

MARCH 22
 U. S. C. G. S.
 46.0N, 148.4E
 Kurile Islands region
 H = 03 57 23.8
 h = about 115 km
 Mag 4.9 (CGS)
 Mould Bay
 eP 04 05 40
 Penticton
 iP 04 07 07 c
 Resolute
 eP 04 06 27 (d)
 Yellowknife
 iP 04 06 34 d

MARCH 22
 44.7N, 110.7W
 Yellowstone National
 Park, Wyoming
 H = 04 34 43.3
 h = about 33 km
 Mag 4.1 (CGS)
 Banff
 eP 04 36 32
 Penticton
 eP 04 36 36
 Schefferville
 eP 04 41 (22)
 Yellowknife
 eP 04 38 50

MARCH 22
 Alert
 eP 13 02 45 (d)

Mould Bay
 eP 13 04 (17)
 MARCH 22
 H = 16 18 27
 Mag 1.9
 Port Hardy
 iP₁ 16 18 52.7
 iS₁ 16 19 12.1
 D = 159 km

MARCH 22
 U. S. C. G. S.
 22.7S, 68.0W
 Chile-Bolivia border
 region
 H = 21 18 27.4
 h = about 242 km
 Mould Bay
 eP 21 31 (33)
 Yellowknife
 eP 21 31 11

MARCH 22
 80°N, 92°W
 Axel Heiberg Island,
 N. W. T.
 H = 23 25 49
 Mag 3.3
 Alert
 Lg 23 28 33
 D = 582 km
 h = about 33 km
 Mould Bay
 Lg 23 29 16
 D = 735 km
 Resolute
 e 23 27 55
 S_n 23 28 09
 Lg 23 28 36
 D = 595 km

MARCH 22
 U. S. C. G. S.
 52.7S, 137.4E
 1500 km southwest of
 Tasmania
 H = 23 36 19.1
 h = about 33 km
 Resolute
 eP 23 56 07 d

MARCH 23
 Yellowknife
 iP 04 12 57

MARCH 23
 Canadian Arctic
 region
 H = 04 26 10.1
 Mag 1.9
 Mould Bay
 P₁ 04 26 24.5
 S₁ 04 26 35.5
 D = 90.1 km

MARCH 23
 U. S. C. G. S.
 42.3N, 84.3E
 Sinkiang Province,
 China
 H = 05 48 34
 h = about 33 km
 Mould Bay
 eP 05 58 54
 Yellowknife
 eP 06 00 10

MARCH 23
 Resolute
 e(P) 06 35 (40)
 Yellowknife
 eP 06 35 54

SEISMOLOGICAL BULLETIN - 1963

MARCH 23
 Mould Bay
 eP 12 19 23

MARCH 23
 U. S. C. G. S.
 45.0N, 111.4W
 Hebgen Lake region,
 Montana
 H = 12 21 43.3
 h = about 34 km
 Penticton
 eP 12 23 34

MARCH 23
 Resolute
 e(P) 14 01 (05)
 Yellowknife
 eP 14 01 08

MARCH 23
 48°12'N, 124°36'W
 Western Washington, USA
 H = 22 38 28
 Mag 2.1
 Alberni
 eP₁ 22 38 48.6
 eS₁ 22 39 03.6
 D = 123 km
 Victoria
 iP₁ 22 38 43.3
 iS₁ 22 38 55.0
 D = 96 km

MARCH 23
 Resolute
 eP 23 54 56 d

MARCH 24
 Penticton
 e 01 55 41

MARCH 24
 U. S. C. G. S.
 9.7S, 120.4E
 Sumba Island region
 H = 02 07 12.8
 h = about 33 km
 Mag 6 1/4 (PAS)
 6 (PAL)
 5.4 (CGS)

Banff
 eP' 02 25 59
 Halifax
 eP' 02 26 49 c
 London
 eP' 02 26 39 (d)
 Mould Bay
 eP 02 21(25)
 Ottawa
 eP' 02 26 40
 Penticton
 iP' 02 25 56 c
 Resolute
 eP 02 21 (52)
 Schefferville
 eP' 02 26 31
 Sept Iles
 iP' 02 26 45 d
 Seven Falls
 eP' 02 26 31
 Shawinigan Falls
 eP' 02 26 44
 Yellowknife
 eP' 02 25 48
 Victoria
 eP' 02 25 53

MARCH 24
 U. S. C. G. S.
 51.6N, 173.3W
 Andreanof Islands,
 Aleutian Islands
 H = 02 24 49.2
 h = about 55 km
 Mag 4.7 (CGS)
 Alert
 e(P) 02 32 34
 Mould Bay
 eP 02 31 13

Penticton
 iP 02 31 25 c
 Sept Iles
 eP 02 35 08
 Shawinigan Falls
 iP 02 34 56

MARCH 24
 Mould Bay
 eP 05 36 47
 Yellowknife
 eP 05 36 32

MARCH 24
 Mould Bay
 eP 09 14 21
 Yellowknife
 eP 09 13 40

MARCH 24
 U. S. C. G. S.
 3.2S, 146.8E
 Bismarck Sea
 H = 09 31 50.4
 h = about 33 km
 Mag 5.0 (CGS)
 Yellowknife
 eP 09 45 18

MARCH 24
 U. S. C. G. S.
 9.0N, 125.6E
 Mindanao Region,
 Philippine Islands
 H = 09 43 20.2
 h = about 51 km
 Mag 5.2 (CGS)
 Alert
 eP 09 56 09 d
 Mould Bay
 eP 09 56 02 d
 Penticton
 iP 09 56 57 c

DOMINION OBSERVATORIES

Resolute
eP 09 56 28 d
Seven Falls
iP' 10 02 05 c
Shawinigan Falls
eP' 10 02 11
Yellowknife
iP 09 56 39 d

MARCH 24
U. S. C. G. S.
36.4N, 70.8E
Hindu Kush
H = 10 58 55.7
h = about 222 km
Mag 4.1 (CGS)
Mould Bay
eP 11 09 29 c
i 11 10 18
Yellowknife
eP 11 10 38

MARCH 24
Mould Bay
eP 11 22 47 c

MARCH 24
U. S. C. G. S.
44.8N, 141.9E
Near coast of
northern Hokkaido,
Japan
H = 12 04 12.7
h = about 195 km
Mag 4.1 (CGS)
Mould Bay
eP 12 12 40
Resolute
eP 12 13 23 (c)
Yellowknife
iP 12 13 39

MARCH 24
U. S. C. G. S.
34.4N, 47.9E
Western Iran
H = 12 44 03.2
h = about 33 km
Mag 5 1/2 - 5 3/4 (PAL)
5.2 (CGS)
Alert
eP 12 54 01
(S) 13 02 07
Banff
eP 12 57 20
Halifax
eP 12 56 11 d
Mould Bay
eP 12 55 09
Ottawa
eP 12 56 41
Penticton
eP 12 57 27
Resolute
eP 12 55 04
Seven Falls
eP 12 56 22
Shawinigan Falls
eP 12 56 28
Victoria
eP 12 57 36
Yellowknife
iP 12 56 23

MARCH 24
U. S. C. G. S.
51.8N, 178.1W
Andreanof Islands,
Aleutian Islands
H = 21 35 24.4
h = about 57 km
Mag 6 (PAS)
5 (PAL)
5.5 (CGS)
Alert
iP 21 43 44 c
Banff
eP 21 42 36 c
i 21 44 50

Halifax
eP 21 46 22
London
iP 21 45 36 (c)
Mould Bay
iP 21 41 57 c
S
21 47 12
Ottawa
iP 21 45 41 c
Penticton
iP 21 42 25 c
Resolute
eP 21 42 49
Schefferville
eP 21 45 22 c
Sept Iles
iP 21 45 56
Seven Falls
eP 21 45 48
Shawinigan Falls
eP 21 45 44
Victoria
iP 21 42 10 c
Yellowknife
iP 21 42 09 c

MARCH 24
Schefferville
eP 22 14 (46)

MARCH 25
U. S. C. G. S.
52.2N, 171.2W
Andreanof Islands,
Aleutian Islands
H = 02 39 47.9
h = about 44 km
Mag 3.4 (CGS)
Mould Bay
eP 02 46 04
Yellowknife
eP 02 46 02

SEISMOLOGICAL BULLETIN - 1963

MARCH 25
U. S. C. G. S.
14.0N, 121.9E
Southern Luzon,
Philippine Islands
H = 03 55 01
h = about 33 km
Mould Bay
eP 04 07 21
Resolute
eP 04 07 51 (c)
Yellowknife
eP 04 08 10

MARCH 25
U. S. C. G. S.
16.3N, 119.7E
Near west coast
of Luzon, Philippine
Islands
H = 08 08 56.6
h = about 36 km
Mag 4.7 (CGS)
Mould Bay
eP 08 21 10 c
Resolute
eP 08 21 37 c
Yellowknife
iP 08 21 55

MARCH 25
Yellowknife
eP 08 45 10

MARCH 25
U. S. C. G. S.
36.0N, 114.9W
Southern Nevada
H = 09 28 44.1
h = about 17 km
Mag 4.3 (CGS)
Alert
eP 09 37 35 (d)
Mould Bay
eP 09 36 22 d

Penticton
eP 09 32 01
Resolute
eP 09 36 17 d
Schefferville
eP 09 35 (58)
Yellowknife
iP 09 34 20

MARCH 25
Alert
i 16 00 59

MARCH 25
U. S. C. G. S.
45.0N, 111.3W
Southwestern Montana
H = 17 43 55
h = about 33 km
Penticton
eP 17 46 04
Yellowknife
eP 17 47 54

MARCH 25
U. S. C. G. S.
56.3S, 149.9E
Macquarie Islands
region
H = 20 17 03.8
h = about 39 km
Mag 5.0 (CGS)
Alert
eP' 20 36.9
Mould Bay
eP' 20 36 32
Resolute
eP' 20 36 49 (d)
Shawinigan Falls
eP' 20 36 57
Yellowknife
eP' 20 36 22

MARCH 25
Yellowknife
eP 21 08 (24)

MARCH 25
U. S. C. G. S.
0.7N, 96.5E
Off southwest coast
of Sumatra
H = 22 46 16.2
h = about 30 km
Mag 5.6 (CGS)
Alert
eP 22 59 43 d
Mould Bay
eP 23 00 02
Ottawa
eP' 23 05 30
Penticton
iP' 23 05 07 d
Resolute
eP 23 00 20
Schefferville
eP' 23 05 10
Seven Falls
eP' 23 05 26 c
Shawinigan Falls
eP' 23 05 28
Yellowknife
eP' 23 04 50

MARCH 25
Yellowknife
eP 23 15 38

MARCH 26
U. S. C. G. S.
4.2S, 152.6E
New Ireland region
H = 08 50 45.4
h = about 120 km
Mag 5.1 (CGS)
Mould Bay
eP 09 03 49

DOMINION OBSERVATORIES

MARCH 26
Mould Bay
eP 10 00 14
Yellowknife
eP 10 00 56

MARCH 26
U. S. C. G. S.
29.7S, 177.8W
Kermadec Islands
H = 09 48 19.7
h = about 45 km
Mag 6 3/4 - 7 (PAS)
7 (BKS)
7 (PAL)

Alert
eP' 10 07 09
Banff
eP 10 01 48
Halifax
eP' 10 07 19 (d)
Mould Bay
eP 10 02 (57)
eP' 10 06 (48)
Ottawa
eP 10 03 (24)
eP' 10 07 03
Penticton
eP 10 01 34
Resolute
eP 10 03 (16)
Schefferville
eP' 10 07 16
Sept Iles
iP' 10 07 26 c
Seven Falls
eP' 10 07 12
Shawinigan Falls
eP' 10 07 08
i 10 17 16
Victoria
eP 10 01 24
Yellowknife
eP 10 02 28
i 10 02 39

MARCH 26
Alert
e(P) 10 17 07
Mould Bay
eP 10 17 (55)
Yellowknife
eP 10 15 58
i 10 18 08

MARCH 26
U. S. C. G. S.
30.1S, 177.4W
Kermadec Islands region
H = 11 46 02.5
h = about 50 km

Alert
eP' 12 04 52
Mould Bay
eP' 12 04 31
Resolute
eP' 12 04 40
Yellowknife
eP' 12 04 51

MARCH 26
U. S. C. G. S.
29.9S, 177.6W
Kermadec Islands
H = 12 51 29.7
h = about 60 km
Mag 4.9 (CGS)

Mould Bay
eP' 13 10 06
Penticton
eP 13 04 54
Resolute
eP' 13 10 16

MARCH 26
U. S. C. G. S.
29.8S, 177.9W
Kermadec Islands
H = 13 25 02.6
h = about 42 km
Mag 7 1/4 (PAS)
6 1/2 (PAL)
5.9 (CGS)

Alert
eP' 13 43 53
Banff
eP 13 38 32
Halifax
iP' 13 44 02
Mould Bay
eP 13 39 (38)
eP' 13 43 31
Ottawa
eP' 13 43 (46)
Penticton
eP 13 38 17
Resolute
eP' 13 43 41 (d)
Schefferville
eP' 13 43 59
Sept Iles
iP' 13 44 10
Shawinigan Falls
eP' 13 43 50
Victoria
eP 13 38 08
Yellowknife
eP 13 39 09
iP' 13 43 28

MARCH 26
Mould Bay
eP 13 54 38
Yellowknife
i 13 54 48

MARCH 26
U. S. C. G. S.
51.3N, 178.8E
Rat Islands,
Aleutian Islands
H = 18 23 08.3
h = about 50 km
Mag 4.4 (CGS)

Mould Bay
eP 18 29 50
Resolute
e(P) 18 30 42 (d)
Yellowknife
iP 18 30 08 d

SEISMOLOGICAL BULLETIN - 1963

MARCH 26
Canadian Arctic
H = 19 25 44.2
Mag 1.9
Alert
P₁ 19 25 56
S₁ 19 26 05
D = 73.8 km

MARCH 26
U. S. C. G. S.
44.4N, 146.7E
Kurile Islands
H = 19 47 46.0
h = about 110 km
Mag 5.6 (CGS)

Alert
eP 19 56 48
Banff
eP 19 57 49
Mould Bay
eP 19 56 16
eS 20 03 04
Penticton
iP 19 57 42
Resolute
eP 19 57 01
Schefferville
eP 19 59 28 c
Victoria
eP 19 57 31
Yellowknife
iP 19 57 09 c
i 19 57 37

MARCH 26
U. S. C. G. S.
36.0N, 135.7E
Near east coast of
Honshu, Japan
H = 21 34 41.1
h = about 33 km
Mag 6 1/2 (PAS)
6 1/2 (BRK)
6 - 6 1/4 (PAL)
5.9 (CGS)

Alert
eP 21 44 55 c
i 21 44 56
Banff
eP 21 46 10 c
Mould Bay
eP 21 44 36
S 21 52 44
Penticton
iP 21 46 03 c
Resolute
eP 21 45 16 (c)
Schefferville
eP 21 47 27
Shawinigan Falls
eP 21 47 57 c
Victoria
eP 21 45 54
Yellowknife
iP 21 45 32

MARCH 26
Yellowknife
iP 22 13 57 c

MARCH 26
U. S. C. G. S.
34.0N, 139.8E
Off coast of
southern Honshu,
Japan
H = 22 36 48.0
h = about 100 km
Mag 4.5 (CGS)

Alert
eP 22 47 (08)
Mould Bay
eP 22 46 44
Resolute
eP 22 47 24 (c)

MARCH 26
Yellowknife
eP 23 48 02

MARCH 27
U. S. C. G. S.
6.8N, 73.8W
Colombia
H = 02 31 51.5
h = about 33 km
Yellowknife
iP 02 42 13 c

MARCH 27
U. S. C. G. S.
37.0N, 71.9E
Hindu Kush
H = 03 39 04.9
h = about 189 km
Mould Bay
eP 03 49 37 c
Penticton
eP 03 50 36
Resolute
e(P) 03 51 (30)
Yellowknife
iP 03 50 16 c

MARCH 27
U. S. C. G. S.
44.5N, 145.6E
Kurile Islands
H = 05 12 07
h = about 33 km
Mag 4.2 (CGS)

Resolute
eP 05 21 33

MARCH 27
U. S. C. G. S.
35.6N, 135.8E
Southern Honshu,
Japan
H = 06 49 23.0
h = about 33 km
Mag 4.1 (CGS)

Mould Bay
eP 06 59 20

DOMINION OBSERVATORIES

Resolute The following minor 10 26 03.1
 e(P) 07 00 01 earthquakes appear on D = 189 km
 Yellowknife the Port Hardy records, Mag 1.7
 eP 07 00 08 and are assumed to be 11 30 50.0
 foreshocks or aftershocks D = 192 km
 of the preceding event. Mag 2.1
 Distances have been obtained 12 21 16.2
 from S-P values. Times D = 191 km
 given are for the first Mag 2.1
 arrival at the Port Hardy 12 39 20.9
 station. D = 189 km
 MARCH 27 Mag 1.7
 U. S. C. G. S. 01 41 12.8 15 00 48.0
 44.3N, 110.6W D = 189 km D = 190 km
 Yellowstone National Park, Wyoming Mag 1.7
 H = 07 22 08.9 MARCH 27 03 25 14.0 15 52 33.8
 h = about 33 km D = 192 km D = 76 km
 Mag 4.2 (CGS) Mag 1.9 Mag 2.1
 Penticton eP 07 23 55 D = 192 km A very weak reading at
 Yellowknife eP 07 26 20 Mag 1.9 Alberni indicates an
 03 26 08.4 epicentre for the event
 D = 192 km at 06 34 at 51° 17'N
 Mag 2.2 and 129° 51'W
 04 34 23.6
 D = 189 km
 Mag 2.3
 04 37 56.1
 D = 191 km
 Mag 1.9
 MARCH 27 04 42 47.5
 U. S. C. G. S. D = 194 km
 6.8N, 73.0W D = 194 km
 Colombia H = 12 31 51.9
 h = about 176 km
 Mag 4.6 (CGS)
 Alert iP 12 43 20 c
 MARCH 27 Mould Bay iP 12 43 08 c
 U. S. C. G. S. Penticton iP 12 41 26
 6.8N, 73.0W Resolute eP 12 42 (39)
 Colombia h = about 176 km Sept Iles iP 12 39 52 c
 H = 12 31 51.9 Mag 4.6 (CGS) Victoria eP 12 41 38
 h = about 176 km Alert iP 12 43 20 c
 Mag 4.6 (CGS) Mould Bay iP 12 43 08 c
 Alert iP 12 43 20 c Penticton iP 12 41 26
 iP 12 43 20 c Resolute eP 12 42 (39)
 MARCH 27 Sept Iles iP 12 39 52 c
 U. S. C. G. S. Victoria eP 12 41 38
 51.4N, 179.1W Yellowknife iP 12 42 03 c
 Aleutian Islands eP 12 41 38
 H = 21 19 01.2
 h = about 33 km
 Mag 4.2 (CGS) Mould Bay eP 21 25 40
 MARCH 27 Yellowknife eP 21 25 53
 U. S. C. G. S. 09 05 21.1
 D = 201 km
 Mag 2.1
 09 05 21.1
 D = 201 km
 Mag 2.1
 09 53 00.0
 D = 189 km
 Mag 2.1

SEISMOLOGICAL BULLETIN - 1963

MARCH 27 MARCH 27 Sept Iles
 Mould Bay H = 22 48 26 eP 00 21 44
 eP 12 59 10 d Mag 2.2 Shawinigan Falls
 Yellowknife Port Hardy iP 00 22 31 (c)
 eP 12 59 26 iP₁ 22 48 56.0 Victoria
 iS₁ 22 49 19.2 eP 00 24 57
 D = 190 km Yellowknife
 iP 00 23 02 c
 MARCH 27 MARCH 27
 U. S. C. G. S. Penticton
 6.3N, 73.1W eP 24 00 22
 Colombia Victoria
 H = 13 15 30.2 eP 23 59 47
 h = about 147 km Yellowknife
 Mag 5.0 (CGS) eP 24 02 55
 Mould Bay eP 13 26 52 c
 Yellowknife iP 13 25 47 c
 iP 13 25 47 c
 MARCH 27 MARCH 28
 U. S. C. G. S. 66.3N, 19.6W
 Iceland H = 00 15 47.5
 H = 00 15 47.5
 h = about 15 km
 Mag 7 - 7 1/4 (PAS) Iceland
 6 1/2 (BKS) H = 00 59 38.9
 6 1/2 - 6 3/4 (PAL) h = about 33 km
 Mag 4.5 (CGS)
 Alert eP 00 20 06 d
 (S) 00 23 07 eP 01 03 56 (d)
 Banff iP 00 24 41 d Mould Bay
 eP 01 05 41
 Halifax iP 00 22 17 Ottawa
 iP 01 06 39 d
 Mould Bay iP 01 08 31
 eP 00 21 52 d Schefferville
 S 00 26 50 eP 01 05 01 (c)
 Ottawa iP 00 22 49 c Yellowknife
 eP 01 06 20
 Penticton iP 00 24 41 d i 01 06 51
 Port Hardy eP 00 24 54
 Resolute eP 00 21 08 d
 eP 00 21 12 c
 Schefferville eP 00 21 12 c
 MARCH 28
 U. S. C. G. S.
 51.9N, 156.5E
 Southern Kamchatka
 H = 02 04 26.3
 h = about 147 km
 Mag 4.3 (CGS)

DOMINION OBSERVATORIES

Yellowknife
eP 02 12 33

MARCH 28
Mould Bay
eP 04 05 29 c

Penticton
eP 04 07 58

Yellowknife
iP 04 06 54

MARCH 28
Resolute
eP 04 26 27

Yellowknife
iP 04 26 41 d

MARCH 28
Penticton
eP 09 40 47

MARCH 28
U. S. C. G. S.
49.0N, 154.9E

Kurile Islands region
H = 09 47 10.5
h = about 53 km

Mag 4.9 (CGS)

Alert
e(P) 09 55 42

Mould Bay
eP 09 54 58

Penticton
iP 09 56 23

Resolute
eP 09 55 48 (d)

Yellowknife
eP 09 55 49

MARCH 28
48.8°N, 122.0°W

South of Chilliwack,
H = 10 25 53

Mag 1.9

Penticton
eP₁ 10 26 22.1
eS₁ 10 26 45.0
D = 184 km

Victoria
eP₁ 10 26 10.7
eS₁ 10 26 24.2
D = 111 km

MARCH 28
U. S. C. G. S.
30.2S, 177.8W

Kermadec Islands
H = 11 12 31.3
h = about 38 km

Alert
eP' 11 31 22 c

Mould Bay
eP' 11 31 01

Penticton
eP 11 25 48

Resolute
eP' 11 31 10(c)

Schefferville
eP' 11 31 28

Sept Iles
iP' 11 31 28 d

Yellowknife
eP 11 26 42
eP' 11 30 50

MARCH 28
U. S. C. G. S.
10.2N, 126.2E

Near north coast of
Mindanao, Philippine
Islands
H = 15 12 02.8
h = about 60 km

Mag 4.4 (CGS)

Mould Bay
eP 15 24 36

Resolute
eP 15 25 05 (c)

Yellowknife
iP 15 25 15 c

MARCH 28
U. S. C. G. S.
30.8N, 70.0E

Hindu Kush
H = 17 12 23.1
h = about 24 km

Mould Bay
eP 17 23 52

Resolute
eP 17 24 53 (d)

Yellowknife
iP 17 25 03 c

MARCH 28
Yellowknife
eP 20 48 19

MARCH 28
Mould Bay
eP 22 02 03

MARCH 28
U. S. C. G. S.
29.6S, 177.5W

Kermadec Islands
H = 23 29 14.6
h = about 54 km

Mag 5.1 (CGS)

Alert
eP' 23 48 02 (d)

Mould Bay
eP' 23 47 (41)

Resolute
eP' 23 47 50 d

Schefferville
eP' 23 48 09

MARCH 29
U. S. C. G. S.
55.4N, 166.0E

Komandorskie Islands
H = 00 23 31.8
h = about 33 km

Mag 4.1 (CGS)

Mould Bay
eP 00 30 10

SEISMOLOGICAL BULLETIN - 1963

MARCH 29
U. S. C. G. S.
40.4N, 26.6E

Northwestern Turkey
H = 03 09 11.2
h = about 33 km

Mag 4.4 (CGS)

Mould Bay
eP 03 19 33

Resolute
eP 03 19 (15)

Yellowknife
eP 03 20 42

MARCH 29
U. S. C. G. S.
13.8N, 91.8W

Guatemala
H = 05 12 22
h = about 33 km

Mag 4.5 (CGS)

Mould Bay
eP 05 22 54

Penticton
eP 05 20 12

Yellowknife
eP 05 21 23

MARCH 29
35.6N, 140.5E

Near coast of
Central Honshu,
Japan
H = 06 32 24.5
h = about 33 km

Mag 4.2 (CGS)

Resolute
eP 06 42 56

MARCH 29
U. S. C. G. S.
13.4N, 91.0W

Guatemala
H = 07 47 56.2
h = about 33 km

Mag 4.3 (CGS)

Penticton
eP 07 55 52

Yellowknife
eP 07 57 02

MARCH 29
Resolute
e(P) 09 11 07

Yellowknife
eP 09 11 25

MARCH 29
Mould Bay
eP 13 32 38

Yellowknife
eP 13 32 11

MARCH 29
Mould Bay
eP 13 52 23

Yellowknife
eP 13 52 18

MARCH 29
Yellowknife
eP 15 54 30

MARCH 29
Mould Bay
eP 16 28 22 d

MARCH 29
48.0°N, 120.4°W

Near Lake Chelan,
Washington, USA
H = 17 14 31
Mag 2.4

Alberni
eP_N 17 15 23.3
D = 370 km

Penticton
iP₁ 17 14 57.2
iS₁ 17 15 16.8
D = 160 km

Victoria
eP_N 17 15 06.3
eS_N 17 15 30.6
D = 230 km

MARCH 29
U. S. C. G. S.
36.5N, 70.4E

Hindu Kush
H = 20 04 51.7
h = about 200 km

Mag 4.2 (CGS)

Mould Bay
eP 20 15 26

Yellowknife
eP 20 16 46

MARCH 29
U. S. C. G. S.
30.2S, 177.7W

Kermadec Islands
H = 21 16 43.7
h = about 60 km

Mag 5.0 (CGS)

Alert
eP' 21 35 32

Mould Bay
eP' 21 35 11

Resolute
eP' 21 35 20 (d)

MARCH 29
U. S. C. G. S.
35.6N, 28.6E

Dodecanese Islands
region
H = 21 52 08
h = about 33 km

Yellowknife
eP 22 03 51

DOMINION OBSERVATORIES

MARCH 30
50°38'N, 129°30'W
West of Scott Islands
H = 00 34 40
Mag 4.1
Alberni
iP_n 00 35 31.8
D = 370 km
Mould Bay
eP 00 40 08
Penticton
eP_n 00 36 17
D = 731 km
Port Hardy
iP₁ 00 35 02.8
D = 148 km
Resolute
eP 00 40 (26)
Victoria
eP_n 00 35 48.0
D = 503 km
Yellowknife
eP 00 37 58

MARCH 30
U.S.C.G.S.
19.1S, 169.1E
New Hebrides Islands
H = 01 53 28.8
h = about 160 km
Mag 6.1 (CGS)
Banff
eP 02 06 38
Halifax
iP' 02 12 20 d
Mould Bay
eP 02 07 14
Penticton
eP 02 06 24
Port Hardy
eP 02 06 07
Resolute
eP 02 07 40
Schefferville
eP' 02 12 09
Sept Iles
iP' 02 12 13 d
i 02 14 07

Seven Falls
eP' 02 12 07
i 02 13 53
i 02 15 28
Shawinigan Falls
eP' 02 12 05
Victoria
eP 02 06 13
Yellowknife
iP 02 06 58
i 02 07 42

MARCH 30
48°52'N, 122°23'W
Northeast of Bellingham,
USA
H = 02 57 45
Mag 2.3
Alberni
iP₁ 02 58 12.6
iS₁ 02 58 34.1
D = 184 km
Penticton
eP_n 02 58 15.0
D = 207 km
Victoria
iP₁ 02 57 57.0
iS₁ 02 58 06.2
D = 87 km

MARCH 30
Yellowknife
eP 05 10 15

MARCH 30
U.S.C.G.S.
51.8N, 170.5W
Fox Islands,
Aleutian Islands
H = 06 54 59.6
h = about 33 km
Mould Bay
eP 07 01 18
Schefferville
eP 07 04 (39)
Yellowknife
iP 07 01 17 d

MARCH 30
U.S.C.G.S.
44.2N, 148.0E
Kurile Islands
H = 16 51 56.6
h = about 33 km
Mag 5 1/4 - 5 1/2 (PAL)
6.3 (CGS)
Alert
eP 17 01 07 c
Banff
eP 17 02 06
Halifax
eP 17 04 42 c
Mould Bay
eP 17 00 35 c
i 17 02 03
Penticton
iP 17 01 58
Port Hardy
iP 17 01 22 c
Resolute
iP 17 01 20 c
Schefferville
eP 17 03 47
Sept Iles
iP 17 04 11 c
Seven Falls
iP 17 04 18
Shawinigan Falls
iP 17 04 18 c
Victoria
eP 17 01 47
Yellowknife
iP 17 01 27 c

MARCH 30
Yellowknife
eP 17 36 59

MARCH 30
U.S.C.G.S.
38.6N, 75.8E
Sinkiang Province,
China
H = 17 30 04.3
h = about 33 km
Mag 4.3 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Mould Bay
eP 17 40 44
Yellowknife
eP 17 42 05
i 17 42 12

MARCH 30
Shawinigan Falls
eP 19 23 01

MARCH 30
H = 20 44 09
Mag 2.2
Port Hardy
eP₁ 20 44 39.7
eS₁ 20 45 03.2
D = 192 km

MARCH 30
Mould Bay
eP 20 52 04
Resolute
eP 20 52 (58)
Yellowknife
iP 20 51 48 d

MARCH 30
U.S.C.G.S.
8.7S, 109.2W
About 2000 km southwest
of Galapagos Islands
H = 21 13 54.1
h = about 33 km
Mag 4.6 (CGS)
Mould Bay
eP 21 26 35
Penticton
eP 21 23 49

MARCH 30
50.2°N, 127.5°W
Checleset Bay west coast
of Vancouver Island
H = 23 58 32
Mag 2.3
Alberni
eP₁ 23 59 04.7
eS₁ 23 59 34.7
D = 214 km
Port Hardy
iP₁ 23 58 41.6
iS₁ 23 58 49.0
D = 63 km
Victoria
eP 23 59 28.1

MARCH 31
Mould Bay
eP 02 19 55 d

MARCH 31
U.S.C.G.S.
36.9N, 57.7E
Northeastern Iran
H = 02 27 09.2
h = about 33 km
Mag 4.6 (CGS)
Mould Bay
eP 02 38 00
Yellowknife
eP 02 39 19

MARCH 31
U.S.C.G.S.
6.5S, 81.1W
Near coast of
southern Peru
H = 04 46 00.8
h = about 33 km
Mag 5.2 (CGS)
Alert
eP 04 58 55

Mould Bay
eP 04 58 36
Ottawa
eP 04 55 06
Penticton
eP 04 56 36
Resolute
eP 04 58 15 (c)
Schefferville
eP 04 56 20 c
Sept Iles
eP 04 55 49
Seven Falls
eP 04 55 24
Shawinigan Falls
eP 04 55 18
Yellowknife
eP 04 57 30

MARCH 31
U.S.C.G.S.
29.9S, 177.7W
Kermadec Islands
H = 05 30 49.3
h = about 48 km
Mag 6 1/4 - 6 1/2 (PAS)
6 1/2 (BKS)
6 - 6 1/4 (PAL)

Alert
eP' 05 49 39 c
Halifax
eP' 05 49 50
Mould Bay
iP' 05 49 18
Ottawa
eP' 05 49 32
Penticton
eP 05 44 05
Port Hardy
eP 05 43 52
Resolute
eP' 05 49 27 (c)
Schefferville
eP' 05 49 45
Yellowknife
eP 05 45 02
eP' 05 49 10

DOMINION OBSERVATORIES

MARCH 31
 U. S. C. G. S.
 10.7S, 78.5W
 Near coast of Peru
 H = 05 51 00.9
 h = about 33 km
 Mag 5.0 (CGS)
 Penticton
 iP 06 02 11 c
 Schefferville
 eP 06 01 45 c
 Yellowknife
 iP 06 02 57 c

MARCH 31
 U. S. C. G. S.
 6.1S, 149.0E
 New Britain
 H = 07 07 36.3
 h = about 60 km
 Mag 6 1/4 (PAS)
 6 (PAL)
 5.7 (CGS)
 Alert
 eP 07 21 28
 Mould Bay
 eP 07 21 00
 Ottawa
 eP' 07 26 32
 Shawinigan Falls
 eP' 07 26 34
 Yellowknife
 eP 07 21 09

MARCH 31
 U. S. C. G. S.
 30.1S, 177.7W
 Kermadec Islands
 H = 09 07 20.1
 h = about 48 km
 Mag 5.2 (CGS)
 Mould Bay
 eP' 09 25 49
 Resolute
 eP' 09 25 58 c

MARCH 31
 Yellowknife
 eP 09 37 04

MARCH 31
 Canadian Arctic
 H = 11 37 11.4
 Mag 2.2
 Resolute
 P₁ 11 37 43
 S₁ 11 38 07
 D = 197 km

MARCH 31
 U. S. C. G. S.
 35.8N, 132.6E
 Near coast of
 southern Honshu,
 Japan
 H = 12 26 11.6
 h = about 33 km
 Mag 4.7 (CGS)
 Mould Bay
 eP 12 36 14
 Resolute
 eP 12 36 (52)
 Yellowknife
 iP 12 37 11 c

MARCH 31
 Schefferville
 eP 13 11 (07)
 Yellowknife
 eP 13 14 31

MARCH 31
 Resolute
 eP 13 49 48 d
 Schefferville
 eP 13 48 (44)

MARCH 31
 Mould Bay
 eP 13 51 41
 Yellowknife
 eP 13 52 04

MARCH 31
 U. S. C. G. S.
 35.1N, 9.3W
 Off coast of Morocco
 H = 14 58 02.4
 h = about 33 km
 Mould Bay
 eP 15 08 12
 Resolute
 eP 15 07 34 (d)

MARCH 31
 U. S. C. G. S.
 53.1N, 167.2W
 Fox Islands,
 Aleutian Islands
 H = 15 33 25.3
 h = about 33 km
 Mag 4.3 (CGS)
 Mould Bay
 eP 15 39 26 c
 i 15 42 32
 Schefferville
 eP 15 42 47 d
 Yellowknife
 iP 15 39 21 d

MARCH 31
 Yellowknife
 iP 16 53 33 c

MARCH 31
 U. S. C. G. S.
 0.8N, 96.6E
 Nicobar Islands region
 H = 17 28 52.7
 h = about 33 km
 Alert
 eP 17 42 19

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Penticton
 eP' 17 47 43
 Yellowknife
 eP' 17 47 23

MARCH 31
 U. S. C. G. S.
 30.0S, 178.0W
 Kermadec Islands
 H = 19 22 53.3
 h = about 50 km
 Mag 6 1/4 - 6 1/2 (PAS)
 6 1/2 (BKS)
 5.8 (CGS)

Alert
 eP' 19 41 43
 Halifax
 iP' 19 41 53 d
 Mould Bay
 eP' 19 41 22
 i 19 52 24
 Ottawa
 eP' 19 41 36
 Penticton
 iP 19 36 09 c
 Port Hardy
 eP 19 35 58
 Resolute
 eP' 19 41 31 (c)
 Sept Iles
 eP' 19 41 49
 Shawinigan Falls
 eP' 19 41 40
 Yellowknife
 eP 19 37 (00)

DOMINION OBSERVATORIES

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the first quarter of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin. M = magnitude.

JANUARY 4 11 14 21 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.5.
Foreshock of the earthquake at 12 43 01.

JANUARY 4 11 18 02 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.0.
Foreshock of the earthquake at 12 43 01.

JANUARY 4 11 21 51 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.0.
Foreshock of the earthquake at 12 43 01.

JANUARY 4 11 54 27 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.2.
Foreshock of the earthquake at 12 43 01.

JANUARY 4 12 13 11 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.0.
Foreshock of the earthquake at 12 43 01.

JANUARY 4 12 27 22 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.2
Foreshock of the earthquake at 12 43 01.

JANUARY 4 12 43 01 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 3.2.
Off the coast of Prince Patrick Island near Cape Leopold McClintock, N.W.T. There were six foreshocks and four aftershocks ranging in magnitude from 1.9 to 2.5. In addition, Mould Bay recorded about two dozen tiny disturbances apparently associated with this epicentre. Of these about half were foreshocks and the remainder aftershocks.

JANUARY 4 12 55 45 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.0.
Aftershock of the earthquake at 12 43 01.

JANUARY 4 13 23 21 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.0.
Aftershock of the earthquake at 12 43 01.

JANUARY 4 16 24 41. 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 1.9.
Aftershock of the earthquake at 12 43 01.

JANUARY 4 18 16 37 M = 2.1. 97 miles from Alert, N.W.T.

JANUARY 4 18 55 52 77.5°N ± 0.2°, 118.1°W ± 1.0°. M = 2.1.
Aftershock of the earthquake at 12 43 01.

JANUARY 11 07 18 09. M = 2.1. 38 miles from Resolute, N.W.T.

JANUARY 15 23 59 01 76.9°N ± 1.0°, 117.5°W ± 2.0°. M = 3.8.
Prince Patrick Island, N.W.T.

JANUARY 18 14 59 22. M = 1.5. 46 miles from Resolute, N.W.T.

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JANUARY 26 06 22 02. Depth 20 km. M = 2.4. 150 miles from Resolute, N.W.T.

JANUARY 27 18 01 40. 81 miles from Yellowknife, N.W.T.

FEBRUARY 2 18 38 12 67°50'N ± 1.0°, 91°00'W ± 2.0°. M = 4.6.
About 32 miles southwest of Pelly Bay, N.W.T.

FEBRUARY 5 22 33 45. M = 1.2. 30 miles from Resolute, N.W.T.

FEBRUARY 8 02 00 53. M = 2.4. 127 miles from Yellowknife, N.W.T.

FEBRUARY 27 01 50 20. 80.9°N ± 0.6°, 85.8°W ± 2.2°. M = 3.7.
Near Hare Fiord, Ellesmere Island, N.W.T.

MARCH 1 21 54 50. Depth 30 km. M = 1.8. 99 miles from Resolute, N.W.T.

MARCH 5 15 21 54. M = 2.4. 153 miles from Resolute, N.W.T.

MARCH 6 01 50 39. M = 2.2. 67 miles from Yellowknife, N.W.T.

MARCH 8 00 14 16. 76°36'N ± 15', 94°20'W ± 1.0°. Depth 33 km (U.S.C.G.S.) M = 5.7. Grinnell Peninsula, Devon Island, N.W.T. Followed by three aftershocks.

MARCH 8 01 44 30. 76°36'N ± 15', 94°20'W ± 1.0°. Depth 32 km. M = 2.5. Aftershock of the earthquake at 00 14 16.

MARCH 8 12 59 01. 76°36'N ± 15', 94°20'W ± 1.0°. Depth 32 km. M = 2.4. Aftershock of the earthquake at 00 14 16.

MARCH 8 14 00 00. 76°36'N ± 15', 94°20'W ± 1.0°. Depth 32 km. M = 2.2. Aftershock of the earthquake at 00 14 16.

MARCH 8 18 07 40. M = 1.9. 86 miles from Alert, N.W.T.

MARCH 12 20 04 24 65°40'N ± 1.0°, 132°00'W ± 3.0°. M = 4.3.
About 100 miles east of Whitehorse, Y.T.

MARCH 15 06 54 50. M = 1.7. 89 miles from Mould Bay, N.W.T.

MARCH 21 09 20 58. 81°18'N ± 15', 103°15'W ± 1.5°. M = 4.1.
About 100 miles north of Ellef Ringnes Island, N.W.T.

MARCH 22 23 25 49. 80°N, 92°W. Axel Heiberg Island, N.W.T. This epicentre is subject to considerable uncertainty as primary phases were not recorded.

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MARCH 23 04 26 10. M = 1.9. 56 miles from Mould Bay, N. W. T.

MARCH 26 19 25 44. M = 1.9. 46 miles from Alert, N. W. T.

MARCH 31 11 37 11. M = 2.2. 122 miles from Resolute, N. W. T.

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EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the first quarter of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin. M = magnitude.

JANUARY 30 14 50 44.0°N, 75.9°W. M = 3.0. The Daily Times of Watertown, N. Y., reported that a shock was felt "sharply over all of the city." The seismographs at both Montreal and Ottawa were out of operation at the time of the shock.

FEBRUARY 2 02 59 43. M = 2.7. 183 miles from London, Ont., - probably to the south or west as it was not recorded at Ottawa.

FEBRUARY 16 08 00 17. 44°53'N ± 5', 73°41'W ± 8'. M = 2.6. About 15 miles southwest of Rouses Point, N. Y.

FEBRUARY 27 06 00. 43°12'N, 79°34'W. M = 3.0. Grimsby, Ont. Newspaper reports said that residents "came spilling outside" to investigate, and that the burglar alarm at the bank was tripped. London station was out of operation for the day, however the shock left a "record" at McMaster University where it caused an irregularity in a graphline depicting the regular compression of a muskeg sample.

MARCH 2 20 24 32. 41°31'N ± 30', 75°46'W ± 40'. M = 3.4. A few miles north of Scranton, Penn.

MARCH 7 14 59 28. M = 3.4. About 270 miles from London, Ont. Ottawa records were being changed at the time.

MARCH 12 07 06 08 57.0°N, ± 1.0°, 60.0°W ± 2.0°. M = 3.8. About 50 miles off the coast of Labrador, Nfld.



DOMINION OBSERVATORIES

EARTHQUAKES IN WESTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the first quarter of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin. In some cases, although they are not included in the text, readings from U.S.C.G.S. stations were used to compute epicentres. The quality (Q) of the epicentre is indicated by a letter from "a" meaning an excellent fit of observed data to "d" meaning a very poor solution.

- JANUARY 2 at 05 39 43 U. T. 150 km from Port Hardy.
- JANUARY 4 at 08 29 02 U. T. 230 km from Port Hardy.
- JANUARY 6 at 06 01 17 U. T. 173 km from Port Hardy.
- JANUARY 7 at 18 59 21 U. T. 158 km from Port Hardy.
- JANUARY 7 at 19 08 17 U. T. 173 km from Port Hardy.
- JANUARY 9 at 16 59 33 U. T. 216 km from Port Hardy.
- JANUARY 9 at 23 49 30 U. T. 69 km from Port Hardy.
- JANUARY 9 at 00 01 27 U. T. Magnitude 1.3, 86 km from Penticton.
- JANUARY 10 at 08 58 34 U. T. 61 km from Port Hardy.
- JANUARY 11 at 23 21 07 U. T. Magnitude 2.0, 228 km from Penticton.
- JANUARY 12 at 14 43 10 U. T. Magnitude 2.6, 315 km from Penticton.
- JANUARY 16 at 06 43 13 U. T. Magnitude 2.3. Epicentre at 48°16'N, 122°48'W, near Whidbey Island, U.S.A.
- JANUARY 18 at 16 13 05 U. T. 315 km from Penticton.
- JANUARY 18 at 20 49 12 U. T. 322 km from Penticton, Magnitude 2.9.
- JANUARY 18 at 21 24 28 U. T. 231 km from Port Hardy.
- JANUARY 19 at 05 57 21 U. T. Magnitude 3.5. Probably a foreshock of next event. Epicentre uncertain.
- JANUARY 20 at 10 56 48 U. T. Magnitude 3.9. Epicentre at 50.3°N, 129.6°W, in Queen Charlotte Sound. Q=b.
- JANUARY 20 at 19 19 08 U. T. 168 km from Port Hardy.

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- JANUARY 22 at 04 13 46 U. T. Magnitude 2.2. Epicentre at 48°53'N, 122°13'W, north east of Bellingham, U.S.A.
- JANUARY 31 at 00 27 33 U. T. Magnitude 2.5. Epicentre at 50°36'N, 129°45'W, off west coast of Vancouver Island.
- JANUARY 31 at 22 54 08 U. T. 104 km from Port Hardy.
- FEBRUARY 16 at 04 06 44 U. T. Magnitude 2.8. Epicentre at 49.6°N, 127.1°W, west of Vancouver Island.
- FEBRUARY 23 at 06 19 17 U. T. Magnitude 2.3. Epicentre at 49°29'N, 123°37'W, near Sechelt Peninsula. Q=a.
- MARCH 4 at 06 08 23 U. T. Magnitude 2.3. Epicentre at 49.6°N, 114.8°W, in the Crowsnest Pass area. Q=c.
- MARCH 4 at 10 40 59 U. T. Magnitude 2.0. Epicentre 184 km from Port Hardy.
- MARCH 9 at 06 54 50 U. T. Magnitude 2.0. 175 km from Port Hardy.
- MARCH 10 at 06 21 29 U. T. Magnitude 2.4. Epicentre at 49.6°N, 127.6°W, west of Vancouver Island.
- MARCH 15 at 23 06 02 U. T. Magnitude 2.3. 266 km from Penticton.
- MARCH 21 at 18 19 19 U. T. Magnitude 3.9. Epicentre at 50°05'N, 129°45'W, west of Vancouver Island, Q=b.
- MARCH 23 at 22 38 28 U. T. Magnitude 2.1. Epicentre at 48°12'N, 124°36'W, in western Washington, U.S.A. Q=b.
- MARCH 27 at 09 11 45 U. T. Magnitude 4.1. Epicentre at 50°38'N, 129°47'W, west of Vancouver Island. Q=b. Many aftershocks for this earthquake are listed in the text.
- MARCH 27 at 22 48 26 U. T. Magnitude 2.2. 190 km from Port Hardy.
- MARCH 28 at 10 25 53 U. T. Magnitude 1.9. Epicentre at 48.8°N, 122.0°W, in Washington, U.S.A. Q=c.
- MARCH 29 at 17 14 31 U. T. Magnitude 2.4. Epicentre at 48.0°N, 120.4°W, near Chelan, Washington, U.S.A. Q=c.
- MARCH 30 at 00 34 45 U. T. Magnitude 4.1. Epicentre at 50°38'N, 129°30'W, west of Scott Islands. Q=b.

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MARCH 30 at 02 57 45 U. T. Magnitude 2.3. Epicentre at 48°52'N, 122°23'W, north east of Bellingham, Washington, U. S. A. Q=b.

MARCH 30 at 20 44 09 U. T. Magnitude 2.2. Epicentre 192 km from Port Hardy.

MARCH 30 at 23 58 32 U. T. Magnitude 2.3. Epicentre at 50.2°N, 127.5°W, west of Vancouver Island. Q=c.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

MARCH 30 at 00 00 00 U. T. Magnitude 2.1. Epicentre at 48°N, 122°W, west of Vancouver Island. Q=b.

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1964



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of Canada**



OTTAWA, CANADA

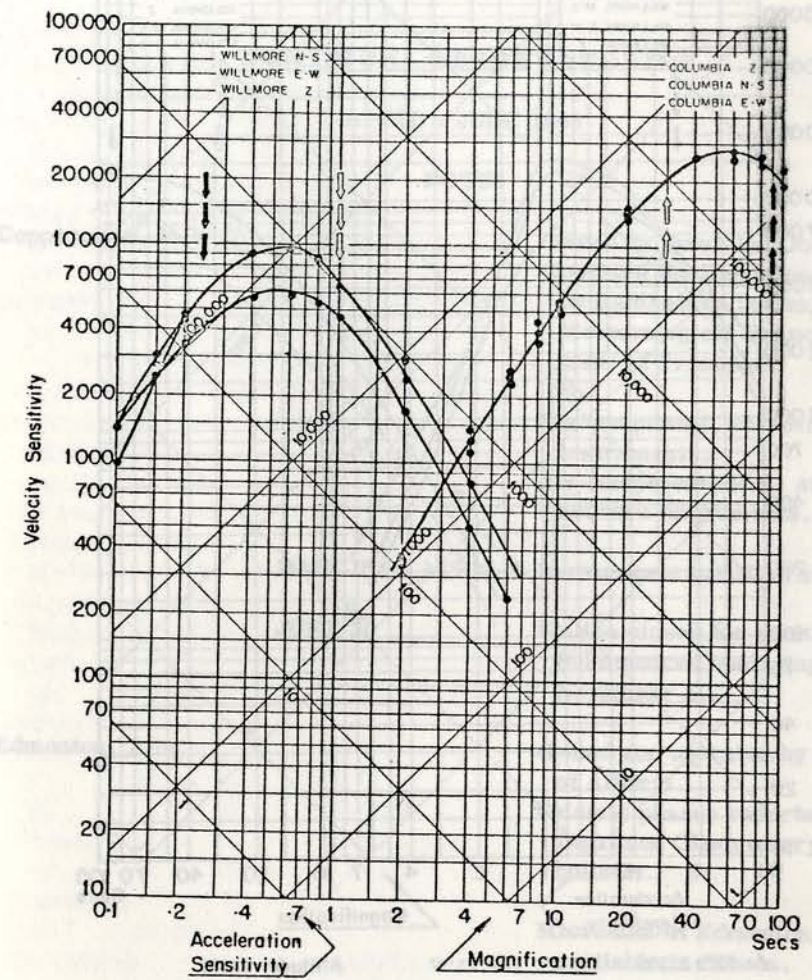
Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1964

CALIBRATION CURVES

STATION: COPPERMINE, N. W. T.



$\phi = 67^{\circ}50'N$ $\lambda = 115^{\circ}05'W$ Altitude 30.9M

Foundation : Precambrian Rock

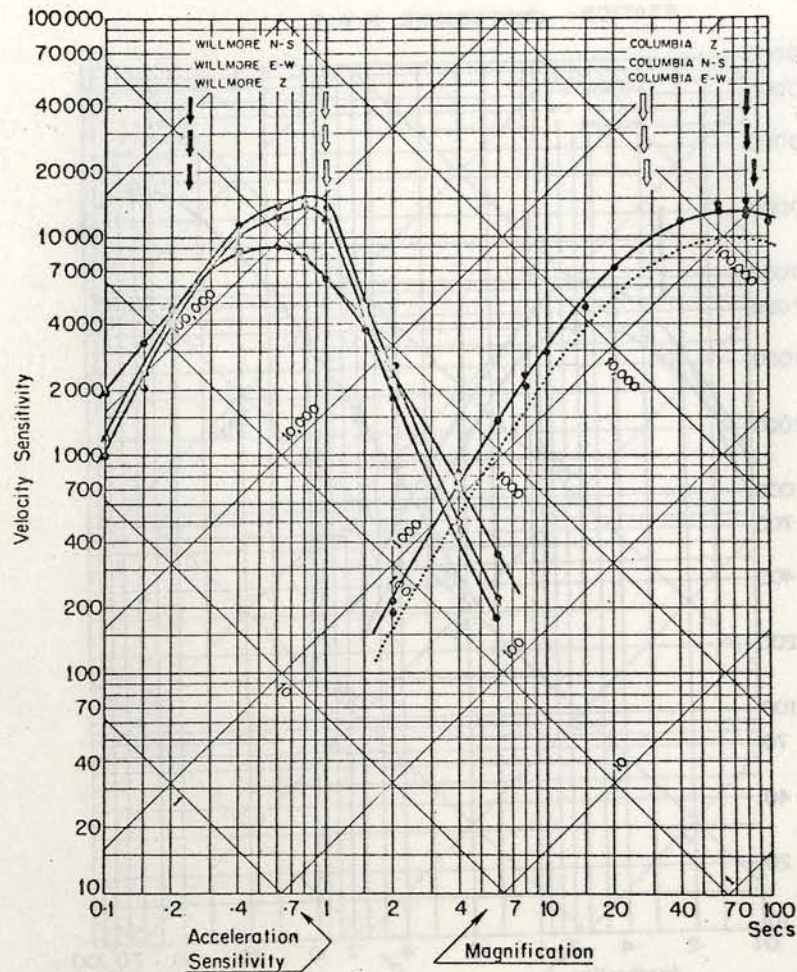
$T_s \uparrow$ $T_g \uparrow$

Date of Calibration: April 1963

S. P. - Z.	APRIL 4	L. P. - Z.	APRIL 7
S. P. - N. S.	APRIL 1	L. P. - N. S.	APRIL 6
S. P. - E. W.	APRIL 1	L. P. - E. W.	APRIL 5

CALIBRATION CURVES

STATION: EDMONTON



$\phi = 53^{\circ}13.3'N$ $\lambda = 113^{\circ}21'W$ Altitude 730M

Foundation: Unconsolidated Shales, Edmonton Formation

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: April 1963.

S.P. - Z.	APRIL 18	L.P. - Z.	APRIL 24
S.P. - N.S.	APRIL 18	L.P. - N.S.	APRIL 23
S.P. - E.W.	APRIL 19	L.P. - E.W.	APRIL 22

..... EFFECTIVE MAY 20

SEISMOLOGICAL BULLETIN - 1963

DOMINION OBSERVATORIES

APRIL - JUNE 1963

NOTES

Coppermine, N.W.T.

Owned by Dominion Observatory.
Operated for Dominion Observatory
by Radiosonde Division,
Meteorological Branch, Depart-
ment of Transport.

Six component, standard Canadian
instruments.
Six component, U.S. standard
network instruments.

MARCH 7 - APRIL 7 Instruments installed and calibrated.

JUNE 20

Station closed for vault repairs.
(commenced operating again
November 5).

Edmonton, Alta.

Owned and operated by University
of Alberta.
Seismic phases reported in
Dominion Observatory seismic
bulletin.

Microfilm of Edmonton seismograms
available in Ottawa.

APRIL 1 - 19

Standard six component instruments
installed and calibrated.

MAY 20

S.P.H.'s lowered to 60% gain
(from 70%).
All L.P.'s lowered to 30% gain
(from 40%).
S.P.Z. unchanged at 70% gain.

DOMINION OBSERVATORIES

Ottawa, Ont. APRIL 29 3 S.P.'s and L.P.-E.W. now operating.

 MAY 10 Seismometer periods of L.P.H.'s increased to 30 seconds. Both L.P.H.'s now in operation.

 MAY 22 L.P.Z. Columbia seismometer commenced operating at a period of fifteen seconds.

 MAY 22 - AUGUST 16 Polarity of L.P.Z. was reversed accidentally. (May 22). During this period uptrace corresponds to a dilatation of the earth.

SEISMOLOGICAL BULLETIN - 1963

APRIL 1
U.S.C.G.S.
6.0S, 149.0E
New Britian
H = 02 19 56.8
h = about 64 km
Mag 4.8 (CGS)
Mould Bay
eP 02 33 20
Yellowknife
eP 02 33 30

APRIL 1
U.S.C.G.S.
44.8N, 141.1E
Off west coast of
Hokkaido, Japan
H = 04 28 44.3
h = about 255 km
Mag 5.6 (CGS)
Alert
eP 04 37 30 (c)
Mould Bay
eP 04 37 06 c
i 04 41 58
iS 04 43 50
Ottawa
eP 04 40 49
Penticton
eP 04 38 44 c
Port Hardy
eP 04 38 11 c
Resolute
eP 04 37 50 c
Schefferville
eP 04 40 15
Sept Iles
iP 04 40 39 d
Shawinigan Falls
eP 04 40 48
Yellowknife
iP 04 38 06 c

APRIL 1
Mould Bay
eP 08 31 41 c
Yellowknife
iP 08 30 07 d

APRIL 1
U.S.C.G.S.
35.4N, 69.8E
Hindu Kush
H = 09 22 51.8
h = about 100 km
Mag 4.8 (CGS)
Alert
e(P) 09 32 50
Mould Bay
eP 09 33 44 c
Penticton
eP 09 36 06
Schefferville
eP 09 35 05
Yellowknife
eP 09 35 03

APRIL 1
Penticton
eP 12 51 57

APRIL 1
Resolute
eP 14 15 29

APRIL 1
U.S.C.G.S.
39.1N, 77.5E
Sinkiang Province,
China
H = 16 31 28.6
h = about 203 km
Mag 4.0 (CGS)
Mould Bay
eP 16 41 44
Yellowknife
eP 16 43 08

APRIL 1
U.S.C.G.S.
36.5N, 71.4E
Hindu Kush
H = 18 36 25.7
h = about 244 km
Mag 4.3 (CGS)
Mould Bay
eP 18 46 56 c
i 18 47 50
Yellowknife
eP 18 48 16

APRIL 1
Schefferville
eP 23 13 16

APRIL 2
U.S.C.G.S.
6.6N, 73.2W
Colombia
H = 00 57 41.7
h = about 140 km
Mag 4.5 (CGS)
Mould Bay
eP 01 09 03 d

DOMINION OBSERVATORIES

Penticton
iP 01 07 20
Schefferville
eP 01 06 10
Yellowknife
eP 01 07 58 d

APRIL 2
U.S.C.G.S.
55.2N, 160.3E
Kamchatka
H = 04 06 57.3
h = about 33 km
Mag 4.9 (CGS)

Mould Bay
eP 04 13 48
Penticton
eP 04 15 13
Resolute
eP 04 14 (41)
Yellowknife
eP 04 14 43

APRIL 2
U.S.C.G.S.
44.8N, 110.7W
Yellowstone
National Park,
Wyoming
H = 13 40 12.7
h = about 33 km
Penticton
eP 13 42 01

APRIL 2
U.S.C.G.S.
44.7N, 110.5W
Yellowstone
National Park,
Wyoming
H = 15 29 42.6
h = about 33 km
Mag 4.0 (CGS)
Penticton
eP 15 31 32

APRIL 2
U.S.C.G.S.
53.2N, 171.7W
Andreanof Islands,
Aleutian Islands
H = 16 18 55.6
h = about 142 km
Mag 6 1/4 - 6 1/2
(PAS)
5 1/2 (BRK)
5.7 (CGS)

Alberni
eP 16 24 46 d
Alert
iP 16 26 20 d
(S) 16 31.9
Banff
iP 16 25 25 d
Halifax
iP 16 29 21 d
London
eP 16 28 30 d
Mould Bay
iP 16 24 56 d
i 16 27 51
S 16 29 46
Penticton
iP 16 25 13 d
Port Hardy
eP 16 24 27 d

Resolute
eP 16 25 38
Schefferville
eP 16 28 19 d
Sept Iles
iP 16 28 43 d
Shawinigan Falls
eP 16 28 41 d
Victoria
eP 16 24 57 d
Yellowknife
iP 16 25 00 d

APRIL 2
Penticton
eP 16 31 25
Port Hardy
eP 16 31 09
Victoria
eP 16 31 19

APRIL 2
Mould Bay
eP 16 56 43 (d)
Yellowknife
eP 16 56 41

APRIL 3
U.S.C.G.S.
17.0N, 46.5W
North Atlantic
Ocean
H = 01 13 15.5
h = about 33 km
Mag 4.5 (CGS)
Mould Bay
eP 01 24 23
Yellowknife
eP 01 23 53

SEISMOLOGICAL BULLETIN - 1963

APRIL 3
Canadian Arctic
H = 05 36 01.6
Mag 2.3
Alert
P1 05 36 29.2
S1 05 36 50.2
D = 172 km

APRIL 3
U.S.C.G.S.
45.0N, 109.9W
Wyoming-Montana
Border
H = 09 35 03.3
h = about 33 km
Penticton
eP 09 37 01

APRIL 3
U.S.C.G.S.
29.6S, 177.2W
Kermadec Islands
Region
H = 11 21 49.0
h = about 48 km
Mag 4.4 (CGS)
Mould Bay
eP' 11 40 (16)

APRIL 3
U.S.C.G.S.
19.1N, 121.4E
Babuyan Islands,
Philippine Islands
H = 11 58 07.2
h = about 71 km
Mag 4.0 (CGS)
Coppermine
eP 12 10 30

Mould Bay
eP 12 09 59 c
Resolute
eP 12 10 29 c
Yellowknife
iP 12 10 49 c

APRIL 3
U.S.C.G.S.
55.4S, 128.2W
South Pacific Ocean
H = 14 47 55.5
h = about 33 km
Mag 5.8 (CGS)
Mould Bay
eP 15 06 (54)
Yellowknife
eP' 15 06 39

APRIL 3
U.S.C.G.S.
61.1N, 148.1W
Alaska
H = 15 54 51.7
h = about 78 km
Mag 5.7 (CGS)
Alert
eP 16 00 51
Mould Bay
eP 15 58 57 (c)
Penticton
eP 15 59 16
Resolute
eP 15 59 51
Schefferville
eP 16 02 28
Sept Iles
iP 16 02 55 c
Yellowknife
iP 15 58 26 c

APRIL 3
Canadian Arctic
H = 20 55 10.5
h = 30 km
Mag 3.0
Resolute
iP_n 20 55 48
i 20 55 56
e 20 56 03
eS_n 20 56 17
e 20 56 21
S1 20 56 26
D = 265 km

APRIL 4
H = 04 48 36
Mag 1.9
Port Hardy
eP1 04 49 02.3
eS1 04 49 22.5
D = 165 km

APRIL 4
53.4°N ± 0.5°,
64.7°W ± 1.0°
About 30 miles east
of Goose Bay Labrador,
Nfld.
H = 08 53 06
h = 3 km (?)
Mag 3.5
Schefferville
P_n 08 54 11
P1 08 54 23
S_n 08 55 03
i 08 55 06
S1 08 55 21
D = 480 km
Sept Iles
S1 08 55 48
D = 576 km
Seven Falls
Not recorded

DOMINION OBSERVATORIES

APRIL 4
Mould Bay
eP 12 16 52
Yellowknife
eP 12 16 35

APRIL 4
U.S.C.G.S.
21.2N, 119.5E
South of Formosa
H = 13 43 20
h = about 19 km
Mag 4.2 (CGS)
Mould Bay
eP 13 55 11
Resolute
eP 13 55 42
Yellowknife
eP 13 56 04

APRIL 4
Alberni
eP 15 29 39.8
Penticton
eP 15 29 48.2
eS 15 30 20.7
Victoria
eP 15 29 28.3
eS 15 29 46.5

APRIL 4
Mould Bay
eP 21 54 14
Yellowknife
eP 21 54 04

APRIL 4
81° 25' N ± 18',
86° 20' W ± 1.5°
Western part of
Ellesmere Island,
N.W.T.
H = 22 41 09.3
Mag 3.2
Alert
P_n 22 42 02
S_n 22 42 43
S₁ 22 42 (55)
D = 385 km
Mould Bay
P_n 22 43 05
S_n 22 44 33
D = 880 km
Resolute
P_n 22 42 47
S_n 22 44 06
D = 770 km

APRIL 5
U.S.C.G.S.
38.7N, 142.0E
Off East Coast of
Honshu, Japan
H = 00 51 54.7
h = about 51 km
Alert
eP 01 01 47
Mould Bay
eP 01 01 21 d
i 01 01 32
Resolute
eP 01 02 03 (d)
Yellowknife
eP 01 02 12

APRIL 5
Mould Bay
eP 05 38 39 (c)
Yellowknife
eP 05 39 33

APRIL 5
Yellowknife
eP 08 30 50

APRIL 5
49.6°N, 126.5°W
Nootka Sound
H = 09 27 16
Mag 3.0
Alberni
eP₁ 09 27 36.8
eS₁ 09 27 52.3
D = 127 km
Penticton
eP_n 09 28 30
Port Hardy
eP₁ 09 27 39.3
eS₁ 09 28 00.0
D = 143 km
Victoria
eP_n 09 27 58.2
D = 287 km

APRIL 5
Mould Bay
eP 12 40 03
Yellowknife
eP 12 39 57

APRIL 5
Resolute
eP 17 59 29 (d)

SEISMOLOGICAL BULLETIN - 1963

Yellowknife
eP 17 57 30

APRIL 6
U.S.C.G.S.
18.0S, 69.9W
Southern Peru
H = 00 42 59.3
h = about 158 km
Mag 4.3 (CGS)
Yellowknife
iP 00 55 29 c

APRIL 6
48.9°N, 115.4°W
H = 01 04 37
Montana, USA
Mag 2.7
Banff
eP_n 01 05 14.7
eS_n 01 05 46.7
D = 262 km
Penticton
eP_n 01 05 22
D = 315 km

APRIL 6
Canadian Arctic
H = 02 14 03.6
Mag 1.8
Mould Bay
iP₁ 02 14 14.6
i 02 14 19
iS₁ 02 14 23
D = 69 km

APRIL 6
U.S.C.G.S.
17.5S, 178.9W
Fiji Islands Region
H = 07 03 06.5
h = about 526 km
Mag 5.1 (CGS)
Banff
eP 07 14 59 c
Coppermine
eP 07 15 41 c
Mould Bay
eP 07 15 54 (c)
Penticton
iP 07 14 45 c
Port Hardy
iP 07 14 29 c
Victoria
eP 07 14 32 c
Yellowknife
iP 07 15 28 c

APRIL 6
U.S.C.G.S.
63.4N, 149.5W
Central Alaska
H = 11 19 23.3
h = about 39 km
Mag 5.5 (CGS)
Alert
eP 11 25 07 (c)
Banff
eP 11 24 11
Coppermine
eP 11 22 46 d
London
eP 11 27 22 d
Mould Bay
eP 11 23 08 d
Ottawa
eP 11 27 26
Penticton
iP 11 24 10 c
Port Hardy
eP 11 23 25
Resolute
eP 11 24 10 c
Schefferville
eP 11 26 59 c
Shawinigan Falls
iP 11 27 29 d
Victoria
eP 11 24 01
Yellowknife
eP 11 23 03

APRIL 6
U.S.C.G.S.
63.6N, 149.5W
Central Alaska
H = 12 07 09.5
h = about 55 km
Mag 4.5 (CGS)



DOMINION OBSERVATORIES

Alert
eP 12 12 50

Coppermine
eP 12 10 (30)
e 12 13 11

Mould Bay
eP 12 10 51
i 12 13 42

Penticton
eP 12 11 56

Resolute
eP 12 11 53 (c)

Yellowknife
eP 12 10 46

APRIL 6
U.S.C.G.S.
41.6N, 141.7E
Near South coast of
Hokkaido, Japan
H = 16 26 07.1
h = about 80 km
Mag 4.7 (CGS)

Mould Bay
eP 16 35 10 c

Resolute
eP 16 35 53

Yellowknife
eP 16 36 05

APRIL 6
U.S.C.G.S.
33.6N, 82.8E
Tibet
H = 17 48 53.3
h = about 33 km

Mould Bay
eP 18 00 00 d
i 18 02 25

Yellowknife
eP 18 01 17 (c)

APRIL 6
U.S.C.G.S.
32.1S, 178.1E
Kermadec Islands
Region
H = 18 02 30.6
h = about 197 km
Mag 4.6 (CGS)

Mould Bay
eP 18 20 52 c

Resolute
eP 18 21 02

APRIL 6
Mould Bay
eP 20 05 22 c

APRIL 6
U.S.C.G.S.
20.0N, 109.3W
Off west coast of
Mexico
H = 23 40 20.8
h = about 44 km
Mag 4.3 (CGS)

Mould Bay
eP 23 50 00 d

Yellowknife
eP 23 48 13

APRIL 7
U.S.C.G.S.
24.5S, 177.0W
Tonga Islands
Region
H = 03 57 31.6
h = about 114 km
Mag 4.7 (CGS)

Penticton
iP 04 10 17 c

APRIL 7
Yellowknife
eP 06 37 04

APRIL 7
Coppermine
eP 07 53 (31)

Mould Bay
eP 07 53 (36)

Yellowknife
eP 07 53 26

APRIL 7
U.S.C.G.S.
70.3N, 13.6W
Jan Mayen Island
Region
H = 11 03 28
h = about 71 km

Yellowknife
eP 11 10 27

APRIL 7
U.S.C.G.S.
71.5N, 13.0W
Jan Mayen Island
Region
H = 11 16 03.8
h = about 33 km
Mag 4.6 (CGS)

Alert
eP 11 19 26

Coppermine
eP 11 22 26 (c)

Mould Bay
eP 11 21 36 (c)

Penticton
eP 11 24 49

Resolute
eP 11 20 (59)

SEISMOLOGICAL BULLETIN - 1963

Yellowknife
iP 11 23 03 c

APRIL 7
U.S.C.G.S.
25.0N, 125.1E
Ryukyu Islands
Region
H = 13 05 22.6
h = about 124 km

Mould Bay
eP 13 16 32 c

Yellowknife
eP 13 17 24 d

APRIL 7
U.S.C.G.S.
27.0N, 129.2E
Ryukyu Islands
Region
H = 15 07 34.9
h = about 33 km

Alert
eP 15 18 49

Coppermine
eP 15 19 09 d

Mould Bay
eP 15 18 37
i 15 18 43

Penticton
eP 15 19 52

Resolute
eP 15 19 12

Yellowknife
eP 15 19 (32)

APRIL 7
U.S.C.G.S.
53.7N, 170.1W
Fox Islands,
Aleutian Islands
Region
H = 15 28 01.8
h = about 202 km
Mag 6.0 (CGS)

Alert
eP 15 35 14 c

Banff
eP 15 34 16 c

Coppermine
iP 15 33 45 c

Halifax
iP 15 38 13

London
iP 15 37 22 c

Mould Bay
eP 15 33 49 c

Penticton
iP 15 34 04 c

Port Hardy
eP 15 33 17 c

Resolute
eP 15 34 39 c

Schefferville
eP 15 37 11 c

Sept Iles
iP 15 37 35 c

Shawinigan Falls
iP 15 37 24 c

Victoria
eP 15 33 47

Yellowknife
iP 15 33 50 d

APRIL 7
Coppermine
iP 15 40 11 c

Penticton
iP 15 40 19 c

APRIL 7
49°45'N, 123°40'W
Jervis Inlet
H = 21 16 18
Mag 2.8

Alberni
iP₁ 21 16 34.5
iS₁ 21 16 47.2
D = 101 km

Penticton
eP_n 21 17 06.0
D = 336 km

Port Hardy
eP_n 21 17 00.0
eS_n 21 17 34.6
D = 287 km

Victoria
iP₁ 21 16 40.5
iS₁ 21 16 57.4
D = 138 km

APRIL 7
U.S.C.G.S.
4.9S, 103.2E
Near southwest
coast of Sumatra
H = 22 36 03.4
h = about 72 km
Mag 6.1 (CGS)

Alert
eP 22 49 52

Banff
eP 22 54 54

Halifax
eP 22 55 19

London
iP 22 55 25 c

DOMINION OBSERVATORIES

Mould Bay
eP 22 50 04

Ottawa
eP' 22 55 20

Penticton
iP' 22 54 54

Port Hardy
eP' 22 54 43

Resolute
eP 22 50 25

Schefferville
eP' 22 55 06

Sept Illes
eP' 22 55 15
i 22 57 40

Shawinigan Falls
iP' 22 55 22 c

Victoria
eP' 22 54 51

Yellowknife
eP 22 50 55

APRIL 8
H = 00 35 36
Mag = 1.9
Aftershock of Jervis
Inlet local
Alberni
iP₁ 00 35 52.3
iS₁ 00 36 04.4
D = 101 km

Victoria
eP₁ 00 35 58.0
eS₁ 00 36 15.3
D = 138 km

APRIL 8
U.S.C.G.S.
41.9N, 72.8E
Kirghiz S.S.R.
H = 06 43 21.0
h = about 33 km
Mag 4.7 (CGS)

Mould Bay
eP 06 53 39 c

Yellowknife
eP 06 55 06

APRIL 8
U.S.C.G.S.
47.5N, 153.2E
Kurile Islands
Region
H = 11 19 39.4
h = about 107 km
Mag 4.6 (CGS)

Coppermine
eP 11 28 07 c

Mould Bay
eP 11 27 36 (c)

Penticton
eP 11 28 59

Yellowknife
eP 11 28 27

APRIL 8
U.S.C.G.S.
4.2S, 152.2E
New Britain
Region
H = 11 53 21.3
h = about 158 km
Mag 4.8 (CGS)

Mould Bay
eP 12 06 20

Penticton
eP 12 06 11

Yellowknife
iP 12 06 28 c

APRIL 8
U.S.C.G.S.
27.7N, 44.3W
North Atlantic
Ocean
H = 14 38 27.0
h = about 33 km
Mag 5.0 (CGS)

Alert
eP 14 47 59 (d)

Coppermine
iP 14 48 14 d

Halifax
eP 14 43 33

London
eP 14 45 04 (c)

Mould Bay
eP 14 48 30 (d)

Penticton
eP 14 48 33

Resolute
eP 14 47 47

Schefferville
eP 14 44 50

Shawinigan Falls
eP 14 44 (34)

Yellowknife
eP 14 48 08

APRIL 9
U.S.C.G.S.
22.2N, 85.6E
India
H = 00 03 35.6
h = about 33 km

Mould Bay
eP 00 15 (42)

SEISMOLOGICAL BULLETIN - 1963

APRIL 9
U.S.C.G.S.
71.2N, 12.7W
Off east coast
of Greenland
H = 01 39 08.6
h = about 20 km

Mould Bay
eP 01 44 43
i 01 47 38

Resolute
eP 01 44 (10)

Yellowknife
eP 01 46 11
i 01 49 06

APRIL 9
U.S.C.G.S.
17.7S, 178.7W
Fiji Islands
Region
H = 02 02 25.1
h = about 538 km
Mag 4.9 (CGS)

Banff
eP 02 14 18

Mould Bay
eP 02 15 13

Penticton
iP 02 14 04

Port Hardy
eP 02 13 46

Yellowknife
eP 02 14 47

APRIL 9
Mould Bay
eP 08 09 08

APRIL 9
Coppermine
eP 12 12 36

Mould Bay
eP 12 12 57

Yellowknife
eP 12 12 55

APRIL 9
U.S.C.G.S.
10.5N, 122.6E
Panay, Philippine
Islands
H = 18 41 54.2
h = about 55 km
Mag 4.3 (CGS)

Alert
eP 18 54 36

Mould Bay
eP 18 54 31 (d)

Resolute
eP 18 54 58 d

Yellowknife
eP 18 55 12

APRIL 9
Mould Bay
iP 19 08 19

Yellowknife
eP 19 08 07

APRIL 10
U.S.C.G.S.
9.2S, 125.0E
Timor
H = 07 50 30.2
h = about 33 km
Mag 5.2 (CGS)

Penticton
eP' 08 08 56

Penticton
eP 00 37 03

APRIL 10
Resolute
e 03 00 (47)

APRIL 10
Mould Bay
eP 03 44 (04)
i 03 44 29

APRIL 10
U.S.C.G.S.
6.9N, 73.2W
Northern Colombia
H = 06 56 33.2
h = about 144 km
Mag 4.7 (CGS)

Mould Bay
eP 07 07 50 d

Penticton
iP 07 06 09 c

Victoria
eP 07 06 21

Yellowknife
iP 07 06 46 d

DOMINION OBSERVATORIES

Resolute
eP' 08 09 (04)
Schefferville
eP' 08 09 48
Yellowknife
eP' 08 09 03

APRIL 10
U.S.C.G.S.
3.6N, 148.1E
Caroline Islands
Region
H = 11 39 07.5
h = about 108 km
Mag 4.0 (CGS)
Mould Bay
eP 11 51 42 c
Penticton
eP 11 51 51
Resolute
eP 11 52 10
Yellowknife
eP 11 51 57

APRIL 10
Mould Bay
eP 12 56 50 (c)

APRIL 10
U.S.C.G.S.
15.9N, 91.7W
Guatemala
H = 14 12 08.9
h = about 150 km
Mag 4.3 (CGS)
Mould Bay
eP 14 22 10
i 14 22 41
Yellowknife
eP 14 20 41

APRIL 10
Yellowknife
eP 17 05 51

APRIL 10
U.S.C.G.S.
16.8N, 94.1W
Chiapas, Mexico
H = 23 10 47.6
h = about 130 km
Mag 4.6 (CGS)
Coppermine
iP 23 19 52 c
Mould Bay
eP 23 20 48 c
Resolute
eP 23 20 24 c
Yellowknife
eP 23 19 14

APRIL 11
U.S.C.G.S.
51.9N, 176.2W
Andreanof Islands,
Aleutian Islands
H = 01 13 44.3
h = about 70 km
Mag 4.4 (CGS)
Mould Bay
eP 01 20 11 d
i 01 20 29
Penticton
iP 01 20 34 c
Yellowknife
eP 01 20 19

APRIL 11
Mould Bay
eP 09 00 24

APRIL 11
U.S.C.G.S.
9.9S, 116.2E
South of Sumbawa
H = 09 33 10.1
h = about 33 km
Halifax
iP' 09 52 46 c

APRIL 11
U.S.C.G.S.
46.8N, 155.5E
Kurile Islands
Region
H = 10 04 36.9
h = about 80 km
Mag 4.6 (CGS)
Mould Bay
eP 10 12 38
Resolute
eP 10 13 26 c
Yellowknife
eP 10 13 23

APRIL 11
U.S.C.G.S.
52.4N, 155.1E
Near west coast
of Kamchatka
H = 11 02 17
h = about 33 km
Mould Bay
eP 11 09 42 c
Yellowknife
eP 11 10 40



SEISMOLOGICAL BULLETIN - 1963

APRIL 11
U.S.C.G.S.
63.7N, 148.6W
Central Alaska
H = 11 35 56.0
h = about 70 km
Mould Bay
eP 11 39 35
Penticton
eP 11 40 38
Yellowknife
eP 11 39 31

APRIL 11
U.S.C.G.S.
53.8N, 164.8W
Fox Islands,
Aleutian Islands
H = 13 02 29.9
h = about 33 km
Mag 4.3 (CGS)
Mould Bay
eP 13 08 22
Yellowknife
eP 13 08 13

APRIL 11
U.S.C.G.S.
79.1N, 1.4E
Svalbard Region
H = 14 19 10
h = about 15 km
Alert
eP 14 21 (34)

APRIL 11
Yellowknife
eP 16 08 31

APRIL 11
Mould Bay
eP 16 36 48

APRIL 11
U.S.C.G.S.
60.2S, 18.7W
Sandwich Islands
Region
H = 16 45 25.1
h = about 33 km
Alert
eP' 17 04 55 (d)
Mould Bay
eP' 17 05 05
i 17 05 13
Penticton
eP' 17 04 39
Resolute
eP' 17 04 51 d
Yellowknife
eP' 17 04 48

APRIL 12
U.S.C.G.S.
31.9N, 78.8E
Northern India
H = 00 41 27.9
h = about 33 km
Mag 5.4 (CGS)
Mould Bay
iP 00 52 46 d
Resolute
eP 00 52 59 d
Yellowknife
iP 00 54 03 d

APRIL 12
Mould Bay
eP 04 13 17

APRIL 12
U.S.C.G.S.
61.2N, 147.3W
Central Alaska
H = 04 13 23.7
h = about 61 km
Mag 4.3 (CGS)
Coppermine
eP 04 16 55
Mould Bay
eP 04 17 29
i 04 19 40
Yellowknife
eP 04 16 57

APRIL 12
U.S.C.G.S.
39.0S, 176.7E
North Island,
New Zealand
H = 08 41 56.7
h = about 106 km
Mould Bay
eP' 09 00 34
Ottawa
eP' 09 00 46
Resolute
eP' 09 00 (44)
Yellowknife
eP' 09 00 (27)

APRIL 12
U.S.C.G.S.
44.9N, 141.1E
Sea of Japan
H = 10 44 16.8
h = about 214 km
Mag 4.4 (CGS)
Coppermine
iP 10 53 21 c

DOMINION OBSERVATORIES

Mould Bay
eP 10 52 44
Penticton
iP 10 54 21 c
Resolute
eP 10 53 28 c
Yellowknife
eP 10 53 43 c

APRIL 12
U.S.C.G.S.
51.6N, 175.0W
Andreanof Islands,
Aleutian Islands
H = 13 38 03.0
h = about 33 km
Mag 4.2 (CGS)
Coppermine
eP 13 44 36 c
Mould Bay
eP 13 44 33 (c)
Ottawa
eP 13 48 15
Penticton
eP 13 44 51
Resolute
eP 13 45 (27)
Schefferville
eP 13 47 57
Yellowknife
eP 13 44 40

APRIL 12
Coppermine
eP 18 05 16
Yellowknife
eP 18 05 24

APRIL 12
73°20'N ± 18',
96°50'W ± 1.0°
In Peel Sound,
N.W.T.
H = 19 16 38.9
Mag 3.8
Coppermine
P_n 19 18 34
S_n 19 20 03
L_g 19 20 51
D = 895 km
Mould Bay
P_n 19 18 15.6
S_n 19 19 30.6
L_g 19 20 10.6
D = 750 km
Resolute
P₁ 19 17 02.8
S₁ 19 17 22
D = 157.5 km
Yellowknife
P_n 19 19 31
S_n 19 21 43
L_g 19 22 59
D = 1335 km

APRIL 12
U.S.C.G.S.
79.6N, 5.1E
Svalbard Region
H = 19 47 54.8
h = about 33 km
Mag 5.2 (CGS)
Alert
eP 19 50 18
Mould Bay
eP 19 52 (37)

APRIL 12
U.S.C.G.S.
16.7S, 173.7W
Tonga Islands
Region
H = 20 48 16.7
h = about 33 km
Mag 5.0 (CGS)
Mould Bay
eP 21 01 52
Penticton
iP 21 00 32 c
Yellowknife
eP 21 01 21

APRIL 13
H = 02 20 56
Mag 2.1
Puget Sound area
Penticton
eP_n 02 21 37.4
D = 287 km
Victoria
eP₁ 02 21 09.0
eS₁ 02 21 19.1
D = 83 km

APRIL 13
U.S.C.G.S.
6.2S, 76.5W
Central Peru
H = 02 20 57.5
h = about 125 km
Mag 6 3/4 - 7
(PAS)
6.3 (CGS)
Alert
iP 02 33 39 d
Banff
iP 02 31 33 d



SEISMOLOGICAL BULLETIN - 1963

Coppermine
iP 02 32 46 d
Halifax
iP 02 29 56 d
London
iP 02 29 33 d
Mould Bay
iP 02 33 25 d
i 02 33 56
iS 02 43 46
Ottawa
iP 02 29 51 d
iS 02 37 06
Penticton
iP 02 31 38 d
Port Hardy
eP 02 32 07 d
Resolute
iP 02 33 02 d
Schefferville
iP 02 31 02 d
Shawinigan Falls
iP 02 30 00 d
Victoria
P 02 31 46 d
Yellowknife
iP 02 32 23 d

APRIL 13
Penticton
iP 02 44 33

APRIL 13
U.S.C.G.S.
36.7N, 140.8E
Near coast of
Central Honshu,
Japan,
H = 11 24 13.0
h = about 111 km
Mag 4.3 (CGS)

Mould Bay
eP 11 33 49
Resolute
e(P) 11 34 30
Yellowknife
eP 11 34 38

APRIL 13
Yellowknife
eP 14 07 58

APRIL 13
H = 14 28 29
Mag 1.7
Penticton
iP₁ 14 28 41.8
iS₁ 14 28 51.6
D = 81 km

APRIL 13
U.S.C.G.S.
3.4S, 135.4E
Near north coast
of New Guinea
H = 14 31 21.0
h = about 31 km
Mag 5.6 (CGS)

Coppermine
eP 14 45 05
Mould Bay
eP 14 44 49 (c)
Resolute
eP 14 45 17
Yellowknife
iP 14 45 14

APRIL 13
Coppermine
eP 15 01 14

Mould Bay
eP 15 00 24 (c)
i 15 00 53
Yellowknife
iP 15 01 43

APRIL 13
U.S.C.G.S.
11.7N, 87.8W
Off coast of
Nicaragua
H = 18 53 18.0
h = about 33 km
Mag 4.4 (CGS)

Mould Bay
eP 19 04 07
Penticton
iP 19 01 39
Yellowknife
iP 19 02 42

APRIL 13
H = 19 41 53
Mag 2.7
Penticton
eP_n 19 42 39.5
eS_n 19 43 15.5
D = 326 km
Victoria
eP₁ 19 42 22.4
eS₁ 19 42 45.0
D = 185 km

DOMINION OBSERVATORIES

APRIL 13
 U.S.C.G.S.
 25.2N, 141.7E
 Volcano Islands
 Region
 H = 19 43 50.0
 h = about 106 km
 Mag 4.5 (CGS)
 Alert
 eP 19 55 05
 Mould Bay
 eP 19 54 38
 Resolute
 eP 19 55 16 (d)
 Yellowknife
 iP 19 55 15 d

APRIL 13
 U.S.C.G.S.
 31.5S, 179.6E
 Kermadec Islands
 Region
 H = 22 07 57
 h = about 421 km
 Resolute
 eP' 22 25 54

APRIL 14
 Yellowknife
 iP 00 03 00

APRIL 14
 U.S.C.G.S.
 31.4S, 177.8W
 Kermadec Islands
 H = 05 32 33.9
 h = about 33 km
 Mag 5.0 (CGS)
 Mould Bay
 eP' 05 51 (07)

Resolute
 eP' 05 51 16
 Schefferville
 eP' 05 51 (34)

APRIL 14
 Yellowknife
 iP 06 35 14

APRIL 14
 U.S.C.G.S.
 30.0N, 140.0E
 South of Honshu,
 Japan
 H = 06 28 33.1
 h = about 33 km
 Mould Bay
 eP 06 39 01

APRIL 14
 U.S.C.G.S.
 30.4N, 140.7E
 South of Honshu,
 Japan
 H = 07 24 32.8
 h = about 33 km
 Mould Bay
 eP 07 34 57
 Yellowknife
 eP 07 35 42

APRIL 14
 U.S.C.G.S.
 30.6N, 140.8E
 South of Honshu,
 Japan
 H = 07 52 05.1
 h = about 33 km

Mould Bay
 eP 08 02 27

APRIL 14
 Yellowknife
 e(P) 11 16 44

APRIL 14
 Mould Bay
 eP 11 35 10
 Yellowknife
 iP 11 34 04

APRIL 14
 Alert
 eP 15 15 19 d
 Coppermine
 iP 15 15 18 d
 Mould Bay
 eP 15 15 31 d
 Resolute
 eP 15 15 14 d
 Yellowknife
 eP 15 15 08

APRIL 14
 Penticton
 eP 15 40 23

APRIL 14
 U.S.C.G.S.
 30.7N, 139.8E
 South of Honshu,
 Japan
 H = 18 58 39.2
 h = about 110 km
 Coppermine
 eP 19 09 23 (c)



SEISMOLOGICAL BULLETIN - 1963

Mould Bay
 eP 19 08 56 (d)
 Resolute
 eP 19 09 35 d
 Yellowknife
 iP 19 09 41

APRIL 14
 U.S.C.G.S.
 30.6N, 139.8E
 South of Honshu,
 Japan
 H = 20 36 53.4
 h = about 113 km
 Mag 4.5 (CGS)
 Mould Bay
 eP 20 47 10 d
 Resolute
 eP 20 47 49 d
 Yellowknife
 iP 20 47 53

APRIL 15
 Mould Bay
 i(P) 00 32 26 d

APRIL 15
 Resolute
 e 01 45 (16)

APRIL 15
 U.S.C.G.S.
 23.5S, 68.2W
 Chile-Bolivia
 Border
 H = 05 40 41.1
 h = about 105 km
 Mag 5.0 (CGS)

Penticton
 iP 05 53 10 d
 Schefferville
 eP 05 52 32 c
 Yellowknife
 iP 05 53 45 d

APRIL 15
 U.S.C.G.S.
 60.8N, 147.5W
 Kenai Peninsula,
 Alaska
 H = 07 32 59.3
 h = about 57 km
 Coppermine
 eP 07 36 (37)
 Mould Bay
 eP 07 37 08
 i 07 37 20
 Penticton
 iP 07 37 22 d
 Resolute
 e(P) 07 38 (00)
 Yellowknife
 eP 07 36 34
 i 07 36 39

APRIL 15
 U.S.C.G.S.
 0.9S, 128.0E
 Halmahera Region
 H = 20 19 21
 h = about 33 km
 Mag 4.5 (CGS)
 Mould Bay
 eP 20 32 47

APRIL 15
 Mould Bay
 eP 21 34 08

APRIL 15
 Resolute
 e(P) 22 05 27

APRIL 15
 U.S.C.G.S.
 15.0N, 92.2W
 Mexico-Guatemala
 Border
 H = 22 35 59.7
 h = about 33 km
 Mag 4.6 (CGS)
 Coppermine
 eP 22 45 26
 Mould Bay
 eP 22 46 21
 i 22 46 58
 Penticton
 iP 22 43 40 c
 Yellowknife
 iP 22 44 50 d

APRIL 15
 U.S.C.G.S.
 18.3S, 173.7W
 Tonga Islands
 Region
 H = 23 39 27.3
 h = about 33 km
 Mag 5.0 (CGS)
 Mould Bay
 eP 23 53 10
 Penticton
 iP 23 51 50
 Yellowknife
 iP 23 52 39

DOMINION OBSERVATORIES

APRIL 16

U.S.C.G.S.
0.8S, 128.0E
Halmahera Region
H = 01 29 19.4
h = about 33 km
Mag 7 (PAS)
6.1 (CGS)

Alert
eP 01 43 04

Coppermine
eP 01 43 05

Halifax
eP' 01 48 42

London
eP' 01 48 31

Mould Bay
eP 01 42 44

Ottawa
eP' 01 48 36

Penticton
eP 01 43 25

Resolute
eP 01 43 11

Schefferville
eP' 01 48 22

Shawinigan Falls
eP' 01 48 32

Yellowknife
eP 01 43 16

APRIL 16

U.S.C.G.S.
0.7S, 128.0E
Halmahera Region
H = 01 55 10.9
h = about 32 km
Mag 6.0 (CGS)
Coppermine
eP 02 08 (58)
Halifax
eP' 02 14 30

London

eP' 02 14 21 c

Mould Bay
eP 02 08 37

Ottawa
eP' 02 14 22

Schefferville
eP' 02 14 10

Shawinigan Falls
iP' 02 14 21 c

Victoria
P' 02 13 26

Yellowknife
eP 02 09 10

APRIL 16

U.S.C.G.S.
1.3S, 126.9E
Halmahera Region
H = 02 05 52
h = about 33 km
Mag 5.8 (CGS)
Mould Bay
iP 02 19 23

APRIL 16

U.S.C.G.S.
0.8S, 127.8E
Halmahera Region
H = 02 50 57.5
h = about 33 km
Mould Bay
eP 03 04 23

APRIL 16

U.S.C.G.S.
1.1S, 127.9E
Halmahera Region
H = 03 32 25.3
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 03 45 50 c

APRIL 16

U.S.C.G.S.
0.8S, 128.9E
Halmahera Region
H = 04 10 16.3
h = about 33 km
Mould Bay
eP 04 23 40

APRIL 16

Penticton
eP 05 36 20
Yellowknife
eP 05 38 44

APRIL 16

U.S.C.G.S.
18.4S, 177.7W
Fiji Islands Region
H = 05 31 59.2
h = about 557 km
Mag 4.5 (CGS)
Penticton
iP 05 43 31 d

SEISMOLOGICAL BULLETIN - 1963

APRIL 16

U.S.C.G.S.
0.9S, 128.5E
Halmahera Region
H = 09 10 29.0
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 09 23 55

APRIL 16

Mould Bay
eP 11 51 39

APRIL 16

U.S.C.G.S.
1.0S, 127.6E
Halmahera Region
H = 12 03 42.5
h = about 33 km
Mag 4.7 (CGS)
Coppermine
eP 12 17 30
Mould Bay
eP 12 17 09 c
Shawinigan Falls
eP' 12 22 53 c
Yellowknife
eP 12 17 (38)

APRIL 16

Yellowknife
eP 13 39 33

APRIL 16

47° 55'N, 129° 18'W
West of Vancouver
Island
H = 14 18 30
Mag 3.6
Alberni
eP_n 14 19. 12.0
D = 368 km
Penticton
eP_n 14 19 59
D = 636 km
Port Hardy
eP_n 14 19 09.2
D = 346 km
Victoria
eP_n 14 19 21.9
D = 450 km
Yellowknife
eP 14 22 17

APRIL 16

Penticton
eP 15 39 17
Yellowknife
eP 15 41 36

APRIL 16

H = 16 24 59
Mag 1.8
Penticton
iP₁ 16 25 24.6
iS₁ 16 25 44.2
D = 160 km

APRIL 16

U.S.C.G.S.
35.4N, 44.3E
Iraq
H = 18 47 08.8
h = about 104 km
Mag 5.2 (CGS)
Coppermine
iP 18 58 47 c
Halifax
eP 18 58 55 c
Mould Bay
iP 18 58 02 c
Resolute
eP 18 57 54 (c)
Schefferville
eP 18 58 28
Yellowknife
iP 18 59 15 c

APRIL 16

U.S.C.G.S.
1.3S, 128.9E
Halmahera Region
H = 20 00 47.2
h = about 33 km
Mag 4.6 (CGS)
Mould Bay
eP 20 14 (14)

APRIL 16

71.5° N ± 0.4°,
74.7° W ± 1.0°
Near Cambridge Fd.,
Baffin Island, N.W.T.
H = 21 24 34
Mag 4.2



DOMINION OBSERVATORIES

Coppermine
 e 21 27 53
 S_n 21 30 20
 L_g 21 31 45
 D_g = 1510 km
 Resolute
 P_n 21 26 06
 S_n 21 27 20
 L_g 21 27 55
 D_g = 715 km
 Schefferville
 L_g 21 33 32
 D_g = 1870 km
 Yellowknife
 eP_n 21 28 35
 eS_n 21 31 42
 i 21 32 08
 L_g 21 33 32
 D = 1895 km

APRIL 17
 U.S.C.G.S.
 0.6S, 128.1E
 Halmahera Region
 H = 01 10 16.6
 h = about 89 km
 Coppermine
 eP 01 23 56
 Mould Bay
 eP 01 23 36
 i 01 25 17
 Resolute
 eP 01 24 (04)
 Yellowknife
 eP 01 24 08

APRIL 17
 U.S.C.G.S.
 19.6S, 178.6E
 Fiji Islands
 H = 02 11 26.1
 h = about 33 km
 Mag 6 1/2 - 6 3/4
 6 (PAS)
 5.9 (BRK)
 5.9 (CGS)

Alert
 eP' 02 29 59
 Banff
 eP 02 24 29
 Halifax
 iP' 02 30 20 d
 London
 eP' 02 30 34 d
 Mould Bay
 eP 02 25 19
 iP' 02 29 39
 Ottawa
 iP' 02 30 03 c
 Penticton
 iP 02 24 14 c
 Resolute
 eP' 02 29 49 (c)
 Schefferville
 eP' 02 30 13
 Shawinigan Falls
 eP' 02 30 07
 Victoria
 P 02 24 01
 Yellowknife
 iP 02 24 56 (c)

APRIL 17
 H = 02 14 56
 Mag 2.4

Penticton
 eP₁ 02 15 25.4
 eS₁ 02 15 48.2
 D = 186 km
 Victoria
 eP₁ 02 15 26.0
 eS₁ 02 15 49.8
 D = 195 km

APRIL 17
 Mould Bay
 eP 06 51 40

APRIL 17
 U.S.C.G.S.
 15.7S, 174.1W
 Samoa Islands
 Region
 H = 08 23 34.0
 h = about 124 km
 Mag 5.1 (CGS)
 Mould Bay
 eP 08 36 52
 Penticton
 eP 08 35 33
 Yellowknife
 eP 08 36 23

APRIL 17
 U.S.C.G.S.
 36.2N, 70.7E
 Hindu Kush
 H = 10 45 21.1
 h = about 140 km
 Mould Bay
 eP 10 56 03
 i 10 56 22
 Yellowknife
 iP 10 57 28 c



SEISMOLOGICAL BULLETIN - 1963

APRIL 17
 Coppermine
 iP 17 35 39

APRIL 17
 U.S.C.G.S.
 58.3N, 32.4W
 North Atlantic
 Ocean
 H = 17 49 30.6
 h = about 33 km
 Coppermine
 eP 17 56 28
 Penticton
 eP 17 58 05
 Yellowknife
 eP 17 56 49

APRIL 17
 U.S.C.G.S.
 58.3N, 32.3W
 North Atlantic
 Ocean
 H = 17 55 02.9
 h = about 33 km
 Coppermine
 eP 18 02 01
 Yellowknife
 eP 18 02 22

APRIL 17
 Coppermine
 eP 18 09 10 c

APRIL 17
 U.S.C.G.S.
 54.9S, 28.2W
 Sandwich Islands
 H = 18 24 27.6
 h = about 26 km
 Mag 5.3 (CGS)
 Coppermine
 eP' 18 43 51
 Penticton
 eP' 18 43 13
 Resolute
 eP' 18 43 (49)
 Yellowknife
 eP' 18 43 42

APRIL 17
 U.S.C.G.S.
 5.4N, 81.5W
 South of Panama
 H = 19 08 26.7
 h = about 33 km
 Mag 4.2 (CGS)
 Coppermine
 eP 19 19 06

APRIL 17
 Yellowknife
 eP 21 26 17

APRIL 17
 Penticton
 iP 23 20 04

APRIL 18
 U.S.C.G.S.
 20.3S, 177.7W
 Fiji Islands
 Region
 H = 01 51 55.2
 h = about 530 km
 Mag 4.5 (CGS)
 Penticton
 iP 02 03 42 d

APRIL 18
 U.S.C.G.S.
 19.4N, 109.1W
 Off coast of
 Jalisco, Mexico
 H = 04 27 40.6
 h = about 33 km
 Mag 4.5 (CGS)
 Mould Bay
 eP 04 37 25

APRIL 18
 U.S.C.G.S.
 44.8N, 110.2W
 Yellowstone National
 Park, Wyoming
 H = 10 43 16.2
 h = about 33 km
 Penticton
 eP 10 45 17

APRIL 18
 Mould Bay
 eP 11 38 19 c

DOMINION OBSERVATORIES

APRIL 18
 U.S.C.G.S.
 45.0N, 110.9W
 Yellowstone National
 Park, Wyoming
 H = 14 59 11.7
 h = about 33 km
 Penticton
 eP 15 01 01
 Yellowknife
 eP 15 03 12

APRIL 18
 Penticton
 eP 15 21 34

APRIL 18
 Penticton
 eP 17 34 02

APRIL 18
 Yellowknife
 eP 18 31 57

APRIL 18
 Yellowknife
 eP 18 41 21

APRIL 18
 U.S.C.G.S.
 22.0S, 64.3W
 Southern
 Bolivia
 H = 22 04 33.6
 h = about 33 km
 Yellowknife
 eP 22 17 45

APRIL 19
 Mould Bay
 eP 03 04 (27)
 i 03 05 36
 Resolute
 eP 03 05 (07)

APRIL 19
 U.S.C.G.S.
 35.3N, 25.2E
 Crete
 H = 07 30 19.2
 h = about 47 km
 Edmonton
 eP 07 42 49 c
 Mould Bay
 eP 07 41 05
 Schefferville
 eP 07 40 43
 Yellowknife
 iP 07 42 10 d

APRIL 19
 U.S.C.G.S.
 35.8N, 96.9E
 Tsinghai Province
 China
 H = 07 35 27.3
 h = about 33 km
 Mag 7 (PAS)
 6 3/4 - 7 (BRK)
 6.1 (CGS)

Alert
 eP 07 45 38
 S 07 54 04
 Banff
 eP 07 48 15
 Coppermine
 eP 07 46 54
 Edmonton
 iP 07 48 08 (d)
 Halifax
 eP 07 49 11

Mould Bay
 eP 07 46 06
 iS 07 54 57
 Ottawa
 iP 07 49 03
 Penticton
 iP 07 48 18 c
 Resolute
 eP 07 46 29 (c)
 Schefferville
 eP 07 48 14 d
 Shawinigan Falls
 eP 07 48 55
 Victoria
 P 07 48 16
 Yellowknife
 iP 07 47 22

APRIL 19
 Mould Bay
 eP 08 14 (44)

APRIL 19
 U.S.C.G.S.
 58.8S, 26.0W
 Sandwich Islands
 Region
 H = 16 17 54.8
 h = about 99 km
 Alert
 eP' 16 37 (10)
 Coppermine
 eP' 16 37 10
 Edmonton
 eP' 16 36 56 c
 Mould Bay
 eP' 16 37 21
 i 16 37 25
 Penticton
 eP' 16 36 56

SEISMOLOGICAL BULLETIN - 1963

Resolute
 eP' 16 37 05 c
 Schefferville
 eP' 16 36 29
 Yellowknife
 eP' 16 36 56
 i 16 37 09

APRIL 20
 U.S.C.G.S.
 46.4N, 151.1E
 Kurile Islands
 H = 00 50 00.6
 h = about 102 km
 Edmonton
 iP 00 59 40 c
 Mould Bay
 eP 00 58 10
 Penticton
 eP 00 58 52
 Resolute
 eP 00 58 57
 Yellowknife
 iP 00 59 01 d

APRIL 20
 Coppermine
 eP 03 14 20
 Yellowknife
 eP 03 14 21

APRIL 20
 U.S.C.G.S.
 27.5S, 70.2W
 Northern Chile
 H = 05 46 59.5
 h = about 33 km
 Mag 4.7 (CGS)
 Edmonton
 eP 05 59 50 c

Yellowknife
 eP 06 00 26
 APRIL 20
 Penticton
 eP 07 00 08

APRIL 20
 U.S.C.G.S.
 52.4N, 160.0E
 Off coast of
 Kamchatka
 H = 07 03 45.1
 h = about 33 km
 Mag 4.4 (CGS)
 Alert
 eP 07 11 50
 Coppermine
 eP 07 11 (25)
 Edmonton
 eP 07 12 28
 Mould Bay
 eP 07 10 58
 i 07 11 02
 Resolute
 eP 07 11 54
 Yellowknife
 eP 07 11 44

APRIL 20
 50.8°N, 129.6°W
 West of Vancouver
 Island
 H = 13 25 42
 Mag 3.5
 Alberni
 eP_n 13 26 35.5
 D = 380 km

Penticton
 eP_n 13 27 22
 D = 765 km
 Port Hardy
 eP₁ 13 26 08.2
 eS₁ 13 26 27.8
 D = 160 km
 Victoria
 eP_n 13 26 53.2
 D = 526 km

APRIL 20
 U.S.C.G.S.
 17.5N, 98.6W
 Guerrero, Mexico
 H = 14 30 37.6
 h = about 33 km
 Mag 3.9 (CGS)
 Edmonton
 eP 14 37 47 (d)

APRIL 20
 U.S.C.G.S.
 22.3S, 64.8W
 Bolivia-Argentina
 Border
 H = 16 55 53.6
 h = about 271 km
 Mag 4.2 (CGS)
 Schefferville
 eP 17 07 21 d
 Yellowknife
 iP 17 08 40

APRIL 20
 Yellowknife
 eP 18 37 10

DOMINION OBSERVATORIES

APRIL 20
Coppermine
iP 19 57 44 c
Resolute
eP 19 57 (47)

APRIL 20
U.S.C.G.S.
52.3N, 159.5E
Off coast of
Kamchatka
H = 20 32 16.2
h = about 33 km
Mag 5.0 (CGS)
Alert
eP 20 40 21
Mould Bay
eP 20 39 32
Penticton
eP 20 41 01
Resolute
eP 20 40 24
Yellowknife
eP 20 40 22

APRIL 20
Mould Bay
eP 22 54 59

APRIL 20
Mould Bay
eP 23 29 55

APRIL 21
U.S.C.G.S.
24.1N, 122.1E
Near east coast
of Formosa
H = 04 38 21.7
h = about 33 km
Mag 5.2 (CGS)
Alert
eP 04 49 52 c
Banff
eP 04 51 15
Coppermine
eP 04 50 22
Edmonton
iP 04 51 15 c
Penticton
iP 04 51 13 c
Resolute
eP 04 50 20 c
Schefferville
eP 04 52 (08)
Victoria
P 04 51 04
Yellowknife
iP 04 50 42 d

APRIL 21
Resolute
eP 05 29 17 (c)
Yellowknife
eP 05 29 30

APRIL 21
U.S.C.G.S.
26.8N, 128.5E
Ryukyu Islands
Region
H = 09 17 05.2
h = about 28 km

Alert
eP 09 28 22 c
Edmonton
eP 09 29 33 c
Penticton
eP 09 29 29
Resolute
eP 09 28 45 c
Victoria
eP 09 29 20
Yellowknife
eP 09 29 02

APRIL 21
U.S.C.G.S.
3.2S, 146.9E
Bismark Sea
H = 10 38 30.0
h = about 33 km
Mag 6.0 (CGS)
Yellowknife
eP 10 51 59

APRIL 21
H = 12 46 07
Mag = 2.3
Probably in
Kootenay Lake area
Banff
eP_n 12 46 40.0
eS_n 12 47 06.0
D = 211 km
Penticton
eP_n 12 46 40.0
eS_n 12 47 05.7
D = 211 km

SEISMOLOGICAL BULLETIN - 1963

APRIL 21
U.S.C.G.S.
35.6N, 138.2E
Honshu, Japan
H = 13 02 45.3
h = about 46 km
Mag 4.3 (CGS)
Resolute
eP 13 13 17
Yellowknife
eP 13 13 29

APRIL 21
Canadian Arctic
H = 13 42 09.2
Mag 2.2
Resolute
P₁ 13 42 34.5
S₁ 13 42 54.5
L 13 43 01.5
D = 164 km

APRIL 22
U.S.C.G.S.
31.5N, 74.0E
West Pakistan
H = 00 51 09.0
h = about 37 km
Mould Bay
eP 01 02 31 c

APRIL 22
U.S.C.G.S.
29.9S, 177.6W
Kermadec Islands
Region
H = 07 25 30.8
h = about 33 km
Mag 5.3 (CGS)

Mould Bay
eP' 07 44 01
Penticton
eP 07 38 45
Resolute
eP' 07 44 10 c

APRIL 22
Yellowknife
eP 07 55 15

APRIL 22
U.S.C.G.S.
5.1S, 154.1E
Solomon Islands
Region
H = 08 30 30.5
h = about 132 km
Mag 5.2 (CGS)
Mould Bay
eP 08 43 34
Yellowknife
eP 08 43 36

APRIL 22
Coppermine
iP 09 26 30 c

APRIL 22
67°02'N ± 17',
135°00'W ± 30'
About 25 miles
south of Fort
McPherson on
the Yukon, N.W.T.
border
H = 09 50 03.3
Mag 3.8

Coppermine
P_n 09 51 54
S_n 09 53 18
L_g 09 54 03
D = 850 km
Mould Bay
P_n 09 52 28.4
S_n 09 54 22.4
D = 1140 km
Resolute
S_n 09 56 09
e 09 57 45
D = 1620 km
Yellowknife
P_n 09 52 20
S_n 09 54 06
L_g 09 55 11
D = 1075 km

APRIL 22
U.S.C.G.S.
12.2N, 143.6E
Mariana Islands
Region
H = 10 41 12.7
h = about 33 km
Coppermine
eP 10 53 36
Edmonton
eP 10 54 05
Mould Bay
eP 10 53 19 c
Resolute
eP 10 53 52 c
Yellowknife
eP 10 53 44

APRIL 22
Edmonton
eP 11 16 (45)

DOMINION OBSERVATORIES

APRIL 22
 U.S.C.G.S.
 41.3N, 39.0E
 Black Sea
 H = 15 38 19.1
 h = about 33 km
 Mag 5.3 (CGS)
 Coppermine
 eP 15 49 26
 Edmonton
 eP 15 50 42 d
 Mould Bay
 eP 15 48 38
 Resolute
 eP 15 48 (27)
 Yellowknife
 eP 15 49 55

APRIL 23
 U.S.C.G.S.
 46.9N, 103.7E
 Outer Mongolia
 H = 02 51 17.2
 h = about 33 km
 Mag 5.1 (CGS)
 Alert
 i 03 00 21
 Coppermine
 eP 03 01 33
 Edmonton
 eP 03 02 59 c
 Mould Bay
 eP 03 00 .3
 Pentiction
 eP 03 03 08
 Resolute
 eP 03 01 07 d
 Schefferville
 eP 03 03 21 (c)
 Yellowknife
 iP 03 02 07

APRIL 23
 Resolute
 eP 06 52 28 (d)

APRIL 23
 U.S.C.G.S.
 60.7S, 24.7W
 Sandwich Islands
 Region
 H = 07 19 44.8
 h = about 33 km
 Mag 5.2 (CGS)
 Alert
 eP' 07 39 17
 Coppermine
 eP' 07 39 14 (c)
 Edmonton
 eP' 07 38 58
 Mould Bay
 eP' 07 38.7
 Resolute
 eP' 07 39 11 d
 Yellowknife
 eP' 07 39 03

APRIL 23
 Edmonton
 eP 09 00 16

APRIL 23
 U.S.C.G.S.
 25.7N, 99.5E
 Yunnan Province
 China
 H = 09 55 06.8
 h = about 33 km
 Mag 5.1 (CGS)
 Coppermine
 eP 10 07 30

Edmonton
 eP 10 08 34
 Resolute
 eP 10 07 11 (d)
 Yellowknife
 eP 10 07 54

APRIL 23
 Mould Bay
 eP 10 40.1

APRIL 23
 U.S.C.G.S.
 12.2N, 125.7E
 Samar, Philippine
 Islands
 H = 11 37 03.1
 h = about 30 km
 Edmonton
 eP 11 51 46 c
 Mould Bay
 eP 11 49.3
 Resolute
 eP 11 50 (00)
 Yellowknife
 i 11 51 13

APRIL 23
 50.6°N, 129.2°W
 West of Vancouver
 Island
 H = 12 58 06
 Mag 3.7
 Coppermine
 eP 13 02 18
 Mould Bay
 eP 13 03 34
 Pentiction
 eP_n 12 59 41
 D = 724 km



SEISMOLOGICAL BULLETIN - 1963

Port Hardy
 eP₁ 12 58 27.0
 eS₁ 12 58 42.8
 D = 130 km
 Victoria
 eP_n 12 59 11.2
 D = 478 km
 Yellowknife
 iP 13 01 23 c

APRIL 23
 U.S.C.G.S.
 42.6N, 19.5E
 Yugoslavia-Albania
 Border
 H = 14 02 56.8
 h = about 38 km
 Mag 5.1 (CGS)
 Alert
 eP 14 11 27
 Coppermine
 eP 14 13 32
 Edmonton
 eP 14 14 (43)
 Mould Bay
 eP 14 12 51 c
 Resolute
 eP 14 12 28 (c)
 Schefferville
 eP 14 12 23

APRIL 23
 U.S.C.G.S.
 5.1S, 146.1E
 Near Northeast
 coast of New
 Guinea
 H = 18 52 24.4
 h = about 134 km
 Mould Bay
 eP 19 05 37

APRIL 23
 Mould Bay
 eP 22 10 50
 Yellowknife
 iP 22 10 34

APRIL 23
 Mould Bay
 eP 22 34 05
 Resolute
 e(P) 22 33 (58)

APRIL 24
 Edmonton
 eP 01 35 57
 Mould Bay
 eP 01 35 35 d
 Yellowknife
 eP 01 35 31

APRIL 24
 U.S.C.G.S.
 0.8S, 91.6W
 Galapagos Islands
 Region
 H = 02 33 10.1
 h = about 33 km
 Mag 4.1 (CGS)
 Coppermine
 eP 02 44 20
 Edmonton
 eP 02 42 (50)
 Mould Bay
 (eP) 02 45 07
 Pentiction
 eP 02 42 42
 Yellowknife
 eP 02 43 47

APRIL 24
 U.S.C.G.S.
 17.2S, 174.5W
 Tonga Islands
 Region
 H = 03 55 06.6
 h = about 190 km
 Mag 4.7 (CGS)
 Edmonton
 eP 04 07 35
 Pentiction
 eP 04 07 09
 Yellowknife
 iP 04 07 27

APRIL 24
 U.S.C.G.S.
 1.1S, 127.2E
 Halmahera Region
 H = 05 51 44.1
 h = about 33 km
 Mag 4.8 (CGS)
 Coppermine
 eP 06 05 32
 Mould Bay
 eP 06 05 11
 Resolute
 eP 06 05 38

APRIL 24
 U.S.C.G.S.
 27.0N, 128.8E
 Ryukyu Islands
 Region
 H = 13 32 12.2
 h = about 33 km
 Mag 5.1 (CGS)
 Alert
 eP 13 43 26 d
 Coppermine
 eP 13 43 47 d

DOMINION OBSERVATORIES

Edmonton
eP 13 44 39 c

Mould Bay
eP 13 43 16 d

Penticton
eP 13 44 34

Resolute
eP 13 43 50 d

APRIL 24
Mould Bay
eP 14 35 44 (c)

Resolute
eP 14 36 23

APRIL 24
U.S.C.G.S.
52.1N, 157.3E
Kamchatka
H = 15 58 07.4
h = about 33 km
Mag 4.3 (CGS)

Mould Bay
eP 16 05 29
i 16 07 41

APRIL 24
U.S.C.G.S.
36.3N, 71.4E
Hindu Kush
Region
H = 20 31 08.9
h = about 125 km

Mould Bay
eP 20 41 53 (c)

APRIL 24
U.S.C.G.S.
20.8S, 179.1W
Fiji Islands
Region
H = 21 42 49.0
h = about 603 km
Mag 5.1 (CGS)

Coppermine
eP 21 55 30

Mould Bay
eP 21 55 (45)

Penticton
iP 21 54 35 d

Resolute
eP' 22 00 08

Yellowknife
iP 21 55 18 c

APRIL 25
Coppermine
eP 06 08 24

Edmonton
eP 06 09 (30)

Mould Bay
eP 06 09 (03)
i 06 09 08

Resolute
eP 06 09 58

Yellowknife
eP 06 08 28
i 06 12 38

APRIL 25
U.S.C.G.S.
4.7N, 122.4E
Celebe Sea
H = 08 12 57.2
h = about 610 km
Mag 5.5 (CGS)

Edmonton
eP' 08 30 (13)

Mould Bay
eP 08 25 03 c

Yellowknife
iP 08 25 40

APRIL 25
Halifax
iP 08 33 39 c

APRIL 25
Edmonton
eP 09 49 39

Mould Bay
eP 09 48 52

APRIL 25
U.S.C.G.S.
31.7N, 140.5E
South of Honshu,
Japan
H = 11 19 18.4
h = about 53 km
Mag 4.1 (CGS)

Edmonton
eP 11 30 (51)

Mould Bay
eP 11 29 33

Penticton
eP 11 30 40

Resolute
eP 11 30 13

Yellowknife
iP 11 30 18 d

SEISMOLOGICAL BULLETIN - 1963

APRIL 25
35.8N, 69.6E
Hindu Kush
Region
H = 12 14 01.1
h = about 210 km

Edmonton
eP 12 26 45 d

Mould Bay
eP 12 24 38 d

Yellowknife
iP 12 25 59

APRIL 25
U.S.C.G.S.
23.4S, 113.0W
Easter Island
Region
H = 13 02 28.8
h = about 33 km
Mag 4.6 (CGS)

Edmonton
eP 13 14 15 c

Penticton
eP 13 13 55

APRIL 25
U.S.C.G.S.
1.3S, 128.7E
Halmahera Region
H = 16 35 56.2
h = about 33 km
Mag 5.3 (CGS)

Mould Bay
eP 16 49 24

Resolute
eP 16 49 (51)

APRIL 25
Mould Bay
eP 18 00 43

APRIL 25
U.S.C.G.S.
21.6S, 178.0W
Fiji Islands
Region
H = 17 50 25.3
h = about 380 km
Mag 5.0 (CGS)

Mould Bay
eP' 18 07 59

Penticton
iP 18 02 33 d

APRIL 26
Mould Bay
eP 00 47 43

APRIL 26
Resolute
e(P) 04 17 09

APRIL 26
U.S.C.G.S.
16.6S, 73.7W
Near coast of
Southern Peru
H = 05 37 30.8
h = about 23 km

Edmonton
eP 05 49 25

APRIL 26
U.S.C.G.S.
18.0S, 173.8W
Tonga Islands
Region
H = 08 18 09.2
h = about 18 km
Mag 5.0 (CGS)

Edmonton
eP 08 30 59

Penticton
eP 08 30 32

APRIL 26
Mould Bay
eP 12 25 22 c

Resolute
eP 12 26 01

APRIL 26
U.S.C.G.S.
64.4N, 148.3W
Central Alaska
H = 15 22 51.3
h = about 139 km
Mag 4.3 (CGS)

Coppermine
eP 15 25 56

Edmonton
eP 15 27 10

Mould Bay
eP 15 26 20 (d)
i 15 29 18

Penticton
eP 15 27 15

Resolute
eP 15 27 18 (c)

Yellowknife
iP 15 26 10 c

DOMINION OBSERVATORIES

APRIL 26
 U.S.C.G.S.
 18.1S, 69.0W
 Peru-Chile
 Border
 H = 16 44 12.0
 h = about 110 km
 Mag 4.7 (CGS)
 Mould Bay
 eP 16 57 43
 Penticton
 eP 16 56 14
 Resolute
 eP 16 57 (19)
 Schefferville
 eP 16 55 29
 Sept Iles
 eP 16 55 00 c
 Shawinigan Falls
 eP 16 54 37
 Yellowknife
 iP 16 56 50 d

APRIL 26
 U.S.C.G.S.
 24.1N, 122.5E
 Off east coast
 of Formosa
 H = 23 45 01.2
 h = about 33 km
 Mag 4.9 (CGS)
 Coppermine
 eP 23 57 02
 Edmonton
 iP 23 57 55 c
 Mould Bay
 eP 23 56 28
 Penticton
 iP 23 57 53 c
 Resolute
 eP 23 57 (00)

APRIL 27
 Resolute
 eP 00 50 (55)

APRIL 27
 Resolute
 eP 02 10 18

APRIL 27
 U.S.C.G.S.
 66.7N, 19.2W
 Off north coast
 of Iceland
 H = 03 42 33.9
 h = about 33 km
 Mag 4.6 (CGS)
 Alert
 eP 03 46 49

Coppermine
 eP 03 49 13
 Edmonton
 eP 03 50 (43)
 Mould Bay
 eP 03 48 41
 Resolute
 eP 03 47 (55)
 Schefferville
 eP 03 47 (56)

APRIL 27
 U.S.C.G.S.
 44.8N, 110.4W
 Yellowstone National
 Park, Wyoming
 H = 04 53 50.9
 h = about 33 km
 Mag 4.4 (CGS)
 Edmonton
 eP 04 55 59
 Penticton
 eP 04 55 51

APRIL 27
 Resolute
 eP 06 19 (52)

APRIL 27
 U.S.C.G.S.
 0.6S, 128.4E
 Halmahera Region
 H = 08 42 58
 h = about 33 km
 Mag 4.9 (CGS)
 Edmonton
 eP' 09 01.4
 Mould Bay
 eP 08 56 24
 Resolute
 eP 08 56 52 d
 Shawinigan Falls
 eP' 09 02 (16)

APRIL 27
 U.S.C.G.S.
 22.8S, 68.9W
 Northern Chile
 H = 11 03 29.1
 h = about 100 km
 Mag 4.8 (CGS)
 Edmonton
 iP 11 15 54 c
 Penticton
 eP 11 15 54
 Schefferville
 eP 11 15 (33)

APRIL 27
 Edmonton
 eP 13 17 40 d

SEISMOLOGICAL BULLETIN - 1963

APRIL 27
 U.S.C.G.S.
 45.0N, 111.4W
 South western
 Montana
 H = 13 39 34.6
 h = about 33 km
 Mag 4.0 (CGS)
 Edmonton
 P 13 41 33
 Penticton
 eP 13 41 06

APRIL 27
 U.S.C.G.S.
 61.4N, 148.3W
 Southern Alaska
 H = 15 10 10.5
 h = about 39 km
 Coppermine
 eP 15 13 42
 Edmonton
 eP 15 14 40
 Mould Bay
 eP 15 14 16
 (i) 15 17 35
 Penticton
 eP 15 14 40
 Resolute
 eP 15 15 (10)
 Sept Iles
 eP 15 18 23

APRIL 27
 U.S.C.G.S.
 30.3S, 70.3W
 Central Chile
 H = 19 29 43.7
 h = about 59 km
 Mag 4.7 (CGS)

Edmonton
 eP 19 42 43 c
 Schefferville
 eP 19 42 15

APRIL 28
 U.S.C.G.S.
 24.0S, 67.9W
 Chile-Argentina
 Border
 H = 02 05 15.9
 h = about 120 km
 Mag 4.2 (CGS)
 Yellowknife
 iP 02 18 22 c

APRIL 28
 U.S.C.G.S.
 30.9N, 131.1E
 Southern Kyushu,
 Japan
 H = 04 05 05.5
 h = about 64 km
 Coppermine
 eP 04 16 12
 Edmonton
 eP 04 17 06
 Mould Bay
 eP 04 15 38
 Resolute
 eP 04 16 15 c
 Yellowknife
 eP 04 16 30

APRIL 28
 U.S.C.G.S.
 12.1S, 78.0W
 Near coast of
 Peru
 H = 05 22 08.0
 h = about 50 km
 Mag 4.9 (CGS)
 Edmonton
 eP 05 33 25 c
 Mould Bay
 eP 05 35 09 (c)
 i 05 35 23
 Resolute
 eP 05 34 49 (c)
 Yellowknife
 iP 05 34 10 d

APRIL 28
 Mould Bay
 eP 05 43 05 c

APRIL 28
 Edmonton
 eP 12 22 15

APRIL 28
 Yellowknife
 i 16 08 59

APRIL 28
 U.S.C.G.S.
 21.5S, 67.6W
 Southern Bolivia
 H = 16 38 50.7
 h = about 147 km
 Mag 4.1 (CGS)
 Edmonton
 eP 16 51 38

DOMINION OBSERVATORIES

Yellowknife
iP 16 51 44

APRIL 28
Yellowknife
iP 18 26 57 d

APRIL 28
U.S.C.G.S.
36.1N, 71.3E
Hindu Kush
H = 19 50 11.4
h = about 150 km
Mag 4.8 (CGS)

Coppermine
iP 20 01 44 c
Mould Bay
iP 20 00 54 c
Resolute
eP 20 01 03 (c)
Yellowknife
iP 20 02 14 c

APRIL 28
U.S.C.G.S.
39.3N, 141.0E
Near east coast
of Honshu, Japan
H = 23 21 35
h = about 33 km
Mag 4.3 (CGS)
Resolute
eP 23 31 41 (c)

APRIL 29
Resolute
e(P) 04 50 27

APRIL 29
U.S.C.G.S.
23.9N, 121.6E
Northern Luzon,
Philippine Islands
H = 05 03 37.2
h = about 118 km
Mag 4.3 (CGS)
Edmonton
eP 05 16 22
Mould Bay
eP 05 14 55
Resolute
eP 05 15 26
Yellowknife
iP 05 15 49

APRIL 29
Penticton
eP 07 43 14

APRIL 29
Edmonton
eP 07 55 23
Penticton
eP 07 54 20
Victoria
P 07 53 43

APRIL 29
Mould Bay
eP 10 16 20

APRIL 29
Resolute
e(P) 12 59 37

APRIL 29
U.S.C.G.S.
63.9S, 159.5E
Balleny Islands
Region
H = 14 51 52.4
h = about 33 km
Mag 5.9 (CGS)
Coppermine
eP' 15 11 23
Edmonton
eP' 15 11 08
Halifax
eP' 15 11 38 (d)
Mould Bay
eP' 15 11 28
i 15 11 36
Resolute
eP' 15 11 (37)
Schefferville
eP' 15 11 41
Sept Iles
iP' 15 11 45 c
Shawinigan Falls
eP' 15 11 30
Yellowknife
iP' 15 11 15

APRIL 29
Schefferville
eP 19 38 (38)
Sept Iles
iP 19 38 48 d

APRIL 29
U.S.C.G.S.
17.4N, 92.7W
Chiapas, Mexico
H = 20 35 41.6
h = about 27 km
Mag 5.2 (CGS)



SEISMOLOGICAL BULLETIN - 1963

Alert
eP 20 46 28
Banff
eP 20 43 01
Edmonton
eP 20 43 08 c
London
eP 20 41 24
Mould Bay
eP 20 45 49
Ottawa
eP 20 42 14
Penticton
iP 20 43 04
Resolute
eP 20 45 26 (d)
Schefferville
eP 20 43 32
Yellowknife
iP 20 44 15 c

APRIL 29
U.S.C.G.S.
51.4N, 178.6E
Andreanof Islands,
Aleutian Islands
H = 21 44 17.1
h = about 60 km
Mag 6 (PAS)
5- 5 1/4
(BRK)
6 (PAL)

Alert
iP 21 52 12 c
Banff
eP 21 51 45
Coppermine
eP 21 51 07 (c)
Edmonton
eP 21 52 48 c
Halifax
eP 21 55 26

London
eP 21 54 (43)
Mould Bay
iP 21 50 59 c
Ottawa
eP 21 54 48
Penticton
iP 21 51 33 c
Resolute
eP 21 51 51
Schefferville
eP 21 54 25 c
Sept Iles
iP 21 54 51 c
Shawinigan Falls
eP 21 54 50
Victoria
P 21 51 19
Yellowknife
iP 21 51 17 c

APRIL 29
Resolute
eP 22 30 30

APRIL 30
Mould Bay
eP 00 05 32

APRIL 30
U.S.C.G.S.
51.3N, 178.5E
Andreanof Islands,
Aleutian Islands
H = 00 36 03.0
h = about 66 km
Mag 4.6 (CGS)
Alert
eP 00 43 59

Mould Bay
iP 00 42 46 c
Resolute
eP 00 43 38
Yellowknife
iP 00 43 04

APRIL 30
U.S.C.G.S.
0.7S, 129.0E
Halmahera Region
H = 00 58 18.3
h = about 33 km
Mag 6 3/4 (PAS)
.6 1/2 (PAL)
5.6 (CGS)

Coppermine
eP 01 12 05
Edmonton
eP' 01 16 (50)
Halifax
eP' 01 17 (34)
London
eP' 01 17 34 (d)
Mould Bay
eP 01 11 44
Ottawa
eP' 01 17 30
Resolute
eP 01 12 (12)
Schefferville
eP' 01 17 24 d
Shawinigan Falls
eP' 01 17 35 c
Yellowknife
eP 01 12 (15)

APRIL 30
Mould Bay
eP 01 41 11

DOMINION OBSERVATORIES

APRIL 30
Mould Bay
eP 01 48 45

APRIL 30
U.S.C.G.S.
7.3N, 126.5E
Near coast of
Mindanao,
Philippine
Islands
H = 02 34 53.3
h = about 34 km
Mag 4.5 (CGS)
Mould Bay
eP 02 47 44

APRIL 30
U.S.C.G.S.
51.4N, 179.1E
Rat Islands,
Aleutian Islands
H = 03 18 52.1
h = about 50 km
Mag 4.5 (CGS)
Alert
eP 03 26 47 c
Edmonton
eP 03 26 23 c
Mould Bay
eP 03 25 34 c
i 03 28 08
Penticton
eP 03 26 13
Resolute
eP 03 26 26 (c)
Yellowknife
iP 03 25 52 d

APRIL 30
U.S.C.G.S.
51.2N, 178.6E
Rat Islands,
Aleutian Island
H = 03 26 04.2
h = about 50 km
Mag 4.9 (CGS)
Alert
iP 03 34 01 c
Edmonton
eP 03 33 37 (d)
Mould Bay
iP 03 32 47
Penticton
eP 03 33 23
Resolute
eP 03 33 39 (c)
Schefferville
eP 03 36 13
Yellowknife
iP 03 33 05

APRIL 30
Edmonton
eP 06 19 58 c
Mould Bay
eP 06 21 52

APRIL 30
Mould Bay
eP 07 00 42 (d)
Yellowknife
iP 07 02 04

APRIL 30
U.S.C.G.S.
51.6N, 178.4E
Rat Islands,
Aleutian Islands
H = 07 07 55.9
h = about 64 km
Mag 5.1 (CGS)
Alert
iP 07 15 50 c
Coppermine
iP 07 14 45 c
Edmonton
iP 07 15 26 c
Mould Bay
iP 07 14 37 c
Penticton
iP 07 15 13
Resolute
eP 07 15 29 d
Schefferville
eP 07 18 03 d
Shawinigan Falls
eP 07 18 28
Yellowknife
iP 07 14 55 c

APRIL 30
Edmonton
eP 07 29 50
Mould Bay
iP 07 28 21
Yellowknife
iP 07 29 12

SEISMOLOGICAL BULLETIN - 1963

APRIL 30
U.S.C.G.S.
17.1S, 175.1W
Tonga Islands
H = 08 26 22.7
h = about 219 km
Mag 4.9 (CGS)
Edmonton
eP 08 38 48
Mould Bay
eP 08 38 30

APRIL 30
Resolute
e(P) 09 38 16

APRIL 30
U.S.C.G.S.
10.6N, 94.4E
Andaman Islands
Region
H = 10 20 54
h = about 33 km
Resolute
eP 10 34 (13)

APRIL 30
U.S.C.G.S.
15.2N, 93.0W
Chiapas, Mexico
H = 11 03 59.6
h = about 59 km
Mag 4.3 (CGS)
Edmonton
eP 11 11 41
Mould Bay
eP 11 14 39 c
Resolute
eP 11 13 58

Yellowknife
iP 11 12 48 d

APRIL 30
Resolute
e(P) 15 31 48

APRIL 30
U.S.C.G.S.
8.2S, 79.9W
Near coast of
Peru
H = 18 43 14.0
h = about 60 km
Mag 4.8 (CGS)
Alert
i 18 56 12
Coppermine
eP 18 55 17
Edmonton
eP 18 54 04 (c)
Mould Bay
eP 18 55 55 c
Penticton
eP 18 54 03
Resolute
eP 18 55 (34)
Schefferville
eP 18 53 40
Shawinigan Falls
eP 18 52 (48)
Yellowknife
iP 18 54 52

APRIL 30
H = 12 27 55
Mag 1.8

Penticton
eP₁ 12 28 22.4
eS₁ 12 28 43.0
D = 168 km

MAY 1
U.S.C.G.S.
52.4N, 174.5W
Andreanof Islands,
Aleutian Islands
H = 01 05 17.7
h = about 78 km
Mag 5.2 (CGS)
Coppermine
eP 01 11 38
Edmonton
iP 01 12 13 c
Mould Bay
eP 01 11 38
i 01 11 54
Penticton
iP 01 11 57 c
Resolute
eP 01 12 (24)
Yellowknife
eP 01 11 44
i 01 14 28

MAY 1
Coppermine
eP 01 18 02
Mould Bay
eP 01 18 02
i 01 18 34
Resolute
e(P) 01 18 24

MAY 1
Mould Bay
eP 07 38 52

DOMINION OBSERVATORIES

Resolute
eP 07 39 18 (c)

Yellowknife
iP 10 16 53

MAY 1
U.S.C.G.S.
19.0S, 169.0E
New Hebrides
Islands
H = 10 03 20.0
h = about 140 km
Mag 7 (PAS)
6 3/4 - 7 (BRK)
6.2 (CGS)

Alert
eP' 10 21 42

Banff
eP 10 16 30

Coppermine
eP 10 17 00 c
i 10 17 37

Edmonton
eP 10 16 39 (c)

Halifax
iP' 10 22 13 c

Mould Bay
eP 10 17 07 (c)
i 10 17 44

Ottawa
eP' 10 21 54

Penticton
iP 10 16 17 c

Resolute
eP 10 17 34

Schefferville
eP' 10 22 03

Sept Iles
eP' 10 22 06

Shawinigan Falls
eP' 10 21 58

Victoria
P 10 16 05 c

MAY 1
Mould Bay
eP 13 26 11

MAY 1
U.S.C.G.S.
13.3N, 91.8W
Off west coast
of Guatemala
H = 16 38 43.4
h = about 70 km
Mag 4.2 (CGS)

Yellowknife
iP 16 47 46

MAY 1
U.S.C.G.S.
38.4N, 75.4E
Sinkiang Province
China
H = 19 52 22.0
h = about 145 km
Mag 4.3 (CGS)

Mould Bay
eP 20 02 49 (d)

MAY 1
Edmonton
eP 22 05 03

MAY 1
Penticton
eP 22 48 01

MAY 2
U.S.C.G.S.
28.5N, 54.8E
Southern Iran
H = 01 58 25.1
h = about 45 km
Mag 5.8 (CGS)

Mould Bay
eP 02 10 05

MAY 2
Canadian Arctic
H = 03 05 29
Mag 1.9

Resolute
P₁ 03 05 50
S₁ 03 06 06
D = 131 km

MAY 2
Mould Bay
eP 06 18 48

MAY 2
U.S.C.G.S.
6.5N, 72.7W
Colombia
H = 13 05 28
h = about 202 km

Mould Bay
eP 13 16 45

MAY 2
U.S.C.G.S.
63.2N, 148.9W
Central Alaska
H = 23 13 12.7
h = about 81 km
Mag 6.1 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Coppermine
eP 23 16 36

Mould Bay
eP 23 16 58
i 23 19 56

Penticton
eP 23 17 53

Resolute
eP 23 17 57 (d)

Yellowknife
iP 23 16 50

MAY 3
Mould Bay
iP 01 09 21

MAY 3
Resolute
e(P) 01 21 40

MAY 3
Canadian Arctic
H = 02 13 25.5
Mag 2.4

Resolute
P₁ 02 14 19.5
S₁ 02 15 00.5
D = 336 km

MAY 3
Mould Bay
eP 10 50 21
i 10 53 03

Penticton
eP 10 50 41

Resolute
e 10 53 (21)

MAY 3
U.S.C.G.S.
30.7N, 51.7E
Iran
H = 10 44 28.0
h = about 25 km
Mag 5.3 (CGS)

Mould Bay
eP 10 55 58 c

MAY 3
U.S.C.G.S.
15.0S, 173.3W
Tonga Islands
H = 10 54 43.0
h = about 33 km
Mag 5.0 (CGS)

Mould Bay
eP 11 08 11

Penticton
eP 11 06 50

Yellowknife
eP 11 07 40

MAY 3
U.S.C.G.S.
45.0N, 111.2W
Hebgen Lake
Region, Montana
H = 16 32 56.0
h = about 33 km

Penticton
e 16 36 06

MAY 3
U.S.C.G.S.
17.6N, 91.8W
Chiapas, Mexico
H = 19 18 14.5
h = about 90 km
Mag 4.1 (CGS)

Mould Bay
eP 19 28 20

Yellowknife
iP 19 26 45 c

MAY 3
Yellowknife
iP 19 44 52

MAY 3
74°24'N ± 18',
86°30'W ± 40'
Brodeur Peninsula,
Baffin Island, N.W.T.
H = 21 21 10.6
Mag 4.0

Coppermine
P_n 21 23 40
S_n 21 25 33
L_g 21 26 39
D = 1150 km

Mould Bay
P_n 21 23 34
S_n 21 25 27
L_g 21 26 31
D_g = 1125 km

Resolute
P_n 21 22 10.5
(P₁) 21 22 22.5
i 21 22 50.5
S_n 21 22 57
L_g 21 23 17
D = 450 km

DOMINION OBSERVATORIES

Yellowknife
 P_n 21 24 20
 S_n 21 26 55
 L_g 21 28 25
 D = 1550 km

MAY 4
 U.S.C.G.S.
 4.7N, 73.8W
 Colombia
 H = 04 41 18.9
 h = about 43 km
 Mag 4.0 (CGS)
 Mould Bay
 eP 04 53 02
 Resolute
 eP 04 52 35
 Schefferville
 eP 04 50 16 c
 Yellowknife
 eP 04 51 55

MAY 4
 U.S.C.G.S.
 51.8N, 175.4W
 Andreanof Islands,
 Aleutian Islands
 H = 05 56 04.1
 h = about 69 km
 Mag 5.5 (CGS)
 Alert
 eP 06 03 46
 Coppermine
 eP 06 02 30
 Edmonton
 iP 06 03 07 c
 Mould Bay
 eP 06 02 30 c
 Ottawa
 eP 06 06 (10)

Penticton
 iP 06 02 51 c
 Resolute
 eP 06 03 21 c
 Schefferville
 eP 06 05 53
 Sept Iles
 eP 06 06 17 (d)
 Shawinigan Falls
 eP 06 06 17
 Victoria
 P 06 02 31 c
 Yellowknife
 iP 06 02 37

MAY 4
 U.S.C.G.S.
 24.7S, 66.6W
 Salta Province
 Argentina
 H = 07 38 53.3
 h = about 153 km
 Mag 5.0 (CGS)
 Edmonton
 eP 07 51 24

MAY 4
 U.S.C.G.S.
 44.3N, 128.7W
 Off coast of
 Oregon
 H = 12 29 43.3
 h = about 33 km
 Penticton
 eP 12 31 40

MAY 4
 Sept Iles
 eP 13 48 09

MAY 4
 Resolute
 e(P) 13 57 (34)

MAY 4
 Edmonton
 eP 14 47 47

MAY 4
 U.S.C.G.S.
 13.2N, 90.8W
 Off coast of
 Guatemala
 H = 16 19 28.3
 h = about 164 km
 Mag 5.1 (CGS)
 Mould Bay
 eP 16 29 51 c
 Penticton
 eP 16 27 13
 Resolute
 eP 16 29 29 (c)
 Schefferville
 eP 16 27 34 c
 Sept Iles
 iP 16 27 05 (d)
 Yellowknife
 iP 16 28 22

MAY 4
 U.S.C.G.S.
 55.1N, 160.1E
 Kamchatka
 H = 16 42 01
 h = about 33 km
 Mag 5.3 (CGS)
 Edmonton
 eP 16 50 (34)

SEISMOLOGICAL BULLETIN - 1963

MAY 4
 Canadian Arctic
 H = 17 45 00.5
 Mag 1.8
 Resolute
 P₁ 17 45 11
 S₁ 17 45 19
 D = 65.5 km

MAY 4
 U.S.C.G.S.
 54.4S, 144.0E
 South of Australia
 H = 18 24 09.4
 h = about 33 km
 Mould Bay
 eP' 18 43 37
 Resolute
 eP' 18 43 54 (c)

MAY 4
 Mould Bay
 eP 19 16 04 (c)
 Yellowknife
 iP 19 14 09

MAY 4
 U.S.C.G.S.
 56.1S, 27.1W
 Sandwich Islands
 H = 19 01 40.8
 h = about 33 km
 Mould Bay
 eP 19 21 11 c
 i 19 24 40
 Yellowknife
 eP 19 20 57

MAY 4
 Yellowknife
 eP 19 45 16

MAY 4
 U.S.C.G.S.
 19.0N, 108.9W
 Off coast of
 Jalisco, Mexico
 H = 21 40 39
 h = about 33 km
 Mould Bay
 eP 21 50 26

MAY 4
 Coppermine
 eP 22 18 02
 Mould Bay
 eP 22 18 35
 Yellowknife
 iP 22 17 43 c

MAY 4
 U.S.C.G.S.
 33.0N, 140.5E
 South of Honshu,
 Japan
 H = 22 09 24
 h = about 169 km
 Resolute
 eP 22 19 58

MAY 5
 Coppermine
 eP 00 02 20 d
 Edmonton
 eP 00 03 (06)
 Mould Bay
 eP 00 02 46

Resolute
 eP 00 03 (37)
 Yellowknife
 iP 00 02 17

MAY 5
 Coppermine
 eP 00 21 23
 Edmonton
 eP 00 22 25

MAY 5
 Resolute
 eP 06 54 17

MAY 5
 U.S.C.G.S.
 32.7N, 139.8E
 South of Honshu,
 Japan
 H = 11 04 14.6
 h = about 132 km
 Mag 4.1 (CGS)
 Coppermine
 iP 11 14 44
 Edmonton
 eP 11 15 35
 Mould Bay
 iP 11 14 15
 Resolute
 eP 11 14 55

MAY 5
 U.S.C.G.S.
 14.2N, 91.9W
 Guatemala
 H = 12 44 34
 h = about 33 km
 Mag 4.3 (CGS)

DOMINION OBSERVATORIES

Edmonton
eP 12 52 27
Mould Bay
eP 12 55 04
i 12 55 41
Yellowknife
iP 12 53 33 c

MAY 5
Resolute
e(P) 13 24 38

MAY 5
U.S.C.G.S.
24.7S, 69.5W
Northern Chile
H = 15 17 01.9
h = about 50 km
Mag 5.1 (CGS)
Coppermine
eP 15 30 34
Edmonton
iP 15 29 39 c
Halifax
eP 15 28 07
London
iP 15 27 59 d
Mould Bay
eP 15 31 05
i 15 35 23
Ottawa
eP 15 28 10
Penticton
eP 15 29 39
Schefferville
eP 15 29 04
Shawinigan Falls
eP 15 28 16
Yellowknife
iP 15 30 15

MAY 5
U.S.C.G.S.
17.5S, 173.7W
Tonga Islands
Region
H = 17 11 47.2
h = about 33 km
Mag 5.0 (CGS)
Coppermine
eP 17 25 06
Edmonton
eP 17 24 36
Yellowknife
eP 17 24 57

MAY 5
Coppermine
eP 22 01 08

MAY 6
Mould Bay
iP 00 13 36

MAY 6
U.S.C.G.S.
9.1S, 112.5E
Near south coast
of Java
H = 08 38 33.3
h = about 84 km
Mag 5.7 (CGS)
Coppermine
eP' 08 57 03
Edmonton
eP' 08 57 23 c
Halifax
eP' 08 58 02 c
London
iP' 08 58 01

Mould Bay
eP 08 52 44
Resolute
eP' 08 57 02
Yellowknife
eP' 08 57 10

MAY 6
Schefferville
eP 09 01 09

MAY 6
Coppermine
eP 11 52 08

MAY 6
49° 04'N,
122° 15'W
East of
Abbotsford
H = 14 33 33
Mag 2.3
Alberni
iP₁ 14 34 01.4
D = 192 km
Penticton
iP₁ 14 34 01.6
iS₁ 14 34 24.5
D = 194 km
Victoria
iP₁ 14 33 47.7
iS₁ 14 33 58.8
D = 106 km

MAY 6
Resolute
eP 14 52 12

SEISMOLOGICAL BULLETIN - 1963

MAY 6
U.S.C.G.S.
39.5N, 20.6E
Greece-Albania
Border
H = 19 30 28.2
h = about 33 km
Mag 5.1 (CGS)
Coppermine
eP 19 41 (27)
Mould Bay
eP 19 40 46

MAY 7
U.S.C.G.S.
36.7N, 83.1E
Sinkiang Prov.,
China
H = 02 17 37.4
h = about 33 km
Mag 5.8 (CGS)
Coppermine
eP 02 29 08 c
Mould Bay
eP 02 28 17 c
i 02 28 23
Penticton
eP 02 30 38
Resolute
eP 02 28 (38)
Yellowknife
iP 02 29 38

MAY 7
U.S.C.G.S.
36.6N, 70.8E
Hindu Kush
Region
H = 03 16 41.4
h = about 230 km
Mag 4.4 (CGS)

Coppermine
iP 03 28 03 d
Mould Bay
eP 03 27 12 c
i 03 28 05

MAY 7
Mould Bay
eP 05 01 19

MAY 7
U.S.C.G.S.
18.8N, 145.5E
Mariana Islands
Region
H = 05 00 50.3
h = about 93 km
Mag 4.9 (CGS)
Coppermine
iP 05 12 29 d
Mould Bay
eP 05 12 11 d
Penticton
eP 05 12 46
Resolute
eP 05 12 47 d
Yellowknife
iP 05 12 39

MAY 7
U.S.C.G.S.
64.5N, 146.9W
Central Alaska
H = 05 16 21.3
h = about 33 km
Mag 4.5 (CGS)
Coppermine
iP 05 19 27 c

Mould Bay
eP 05 19 48
i 05 23 (01)
Penticton
iP 05 21 03
Schefferville
eP 05 23 47
Shawinigan Falls
eP 05 24 18
Yellowknife
iP 05 19 45

MAY 7
Sept Iles
iP 15 47 14 c

MAY 7
U.S.C.G.S.
22.0S, 68.6W
Northern Chile
H = 16 23 11.2
h = about 110 km
Mag 5.4 (CGS)
Coppermine
iP 16 36 26 d
London
iP 16 33 45 d
Mould Bay
eP 16 36 57
Ottawa
eP 16 33 56
Penticton
iP 16 35 33 d
Resolute
eP 16 36 36
Schefferville
eP 16 34 50 d
Shawinigan Falls
eP 16 34 02
Victoria
P 16 35 38

DOMINION OBSERVATORIES

Yellowknife
iP 16 36 07 d

MAY 7
U.S.C.G.S.
12.1N, 72.2W
Near coast of
Northeastern
Colombia
H = 18 00 21.8
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 18 11 24 d

MAY 8
U.S.C.G.S.
54.9N, 163.9W
Unimak Island,
Aleutian Islands
Region
H = 08 50 56.0
h = about 89 km
Mag 5.6 (CGS)
Alert
eP 08 58 03
Coppermine
iP 08 56 22 d
Halifax
eP 09 00 55
London
iP 09 00 01 d
Mould Bay
eP 08 56 31.5 d
S 09 01 00
Ottawa
iP 09 00 09 (d)
Penticton
iP 08 56 35 d
Resolute
eP 08 57 20

Schefferville
eP 08 59 53 d
Sept Iles
iP 09 00 17 d
Shawinigan Falls
eP 09 00 14
Victoria
P 08 56 18
Yellowknife
iP 08 56 24 d

MAY 8
Mould Bay
eP 09 03 21.5 d
i 09 07 11
i 09 07 55

MAY 8
Resolute
eP 10 06 12 (c)

MAY 8
U.S.C.G.S.
36.6N, 141.0E
Honshu, Japan
H = 10 22 11.2
h = about 53 km
Mag 6.1 (CGS)
Alert
iP 10 32 18 c
S 10 40 28
Coppermine
iP 10 32 24 c
iS 10 40 43
Mould Bay
iP 10 31 53 d
S 10 39 47
Ottawa
eP 10 35 14

Penticton
iP 10 33 11 c
Resolute
iP 10 32 34 c
Schefferville
eP 10 34 47 (c)
Sept Iles
eP 10 35 08
Shawinigan Falls
eP 10 35 15 (c)
Victoria
P 10 32 59
Yellowknife
iP 10 32 43 c

MAY 8
Coppermine
eP 11 01 36
Yellowknife
eP 11 01 31

MAY 8
Canadian Arctic
H = 12 59 13
Mag 3.4
Resolute
eP_n 13 00 04
i 13 00 20
iS_n 13 00 40
i 13 00 51
iS₁ 13 00 54
D = 375 km

MAY 8
Yellowknife
eP 13 04 (33)

SEISMOLOGICAL BULLETIN - 1963

MAY 8
U.S.C.G.S.
58.6S, 61.5W
Drake Passage
H = 13 56 27
h = about 33 km
Mag 5.8 (CGS)
Mould Bay
eP' 14 15 43
i 14 15 52
Yellowknife
iP' 14 15 29 d

MAY 8
Mould Bay
eP 14 27 19

MAY 8
U.S.C.G.S.
5.3N, 125.7E
Off coast of
Mindanao, Philip-
pine Islands
H = 15 24 00.3
h = about 70 km
Mag 5.6 (CGS)
Coppermine
iP 15 37 18 c
Mould Bay
eP 15 36 55
Resolute
eP 15 37 23 c
Shawinigan Falls
eP' 15 42 (54)
Yellowknife
iP 15 37 33

MAY 8
Canadian Arctic
H = 15 43 47.1
Mag 2.8
Alert
eP₁ 15 44 20
i 15 44 25
i 15 44 34
iS₁ 15 44 44
D = 205 km

MAY 8
Coppermine
eP 15 48 05
Resolute
eP 15 49 05 d
Yellowknife
eP 15 48 05

MAY 8
Yellowknife
iP 15 54 00

MAY 8
H = 18 42 59
Mag 1.8
Alberni
eP₁ 18 43 23.6
D = 155 km
Victoria
iP₁ 18 43 05.0
iS₁ 18 43 09.8
D = 39 km

MAY 8
Edmonton
eP 20 18 54 d
Mould Bay
eP 20 18 16

MAY 8
Coppermine
eP 21 28 51

MAY 8
U.S.C.G.S.
32.1N, 141.5E
South of Honshu,
Japan
H = 21 26 53.4
h = about 39 km
Mag 4.1 (CGS)
Coppermine
eP 21 37 32
Edmonton
eP 21 38 23
Resolute
eP 21 37 44
Yellowknife
eP 21 37 50

MAY 8
Coppermine
iP 21 47 31 c

MAY 8
Coppermine
eP 22 08 00

MAY 9
48° 56'N,
123° 03'W
Strait of Georgia
H = 05 08 20
Mag 2.0
Alberni
eP₁ 05 08 46.8
D = 138 km

DOMINION OBSERVATORIES

Penticton
eP_n 05 09 01
D = 252 km

Victoria
iP₁ 05 08 33.8
eS₁ 05 08 44.0
D = 57 km

MAY 9
Resolute
e(P) 05 28 56

MAY 9
Coppermine
eP 06 27 03

Resolute
eP 06 27 01

MAY 9
U.S.C.G.S.
31.7N, 142.3E
South of Honshu,
Japan
H = 11 23 29.8
h = about 33 km
Mag 3.9 (CGS)

Coppermine
eP 11 34 10

Mould Bay
eP 11 33 44

Resolute
eP 11 34 (24)

Yellowknife
eP 11 34 26

MAY 9
Yellowknife
eP 13 29 12

MAY 9
U.S.C.G.S.
12.2N, 86.9W
Near west coast
of Nicaragua
H = 15 03 41.0
h = about 34 km
Mag 5.3 (CGS)

Alert
eP 15 14 56

Coppermine
iP 15 13 35 c

Edmonton
eP 15 12 04

London
iP 15 09 57

Mould Bay
eP 15 14 26

i 15 14 27

Penticton
eP 15 12 02

Resolute
eP 15 14 01

Schefferville
eP 15 11 55

Sept Iles
eP 15 11 28

Shawinigan Falls
eP 15 10 (41)

Yellowknife
iP 15 13 04 d

MAY 9
U.S.C.G.S.
12.7N, 86.6W
Nicaragua
H = 15 06 24
h = about 33 km

Mould Bay
eP 15 17 06

Sept Iles
eP 15 14 07

Yellowknife
eP 15 15 44

MAY 9
Coppermine
iP 15 18 16

London
eP 15 14 40

Mould Bay
eP 15 19 08

Sept Iles
eP 15 16 07

Yellowknife
eP 15 17 45

MAY 9
Sept Iles
eP 17 33 54

MAY 9
Edmonton
eP 18 23 27

Mould Bay
eP 18 27 02 (d)

Resolute
eP 18 26 58 d

Yellowknife
eP 18 25 01

MAY 9
Edmonton
eP 18 42 (10)

Penticton
eP 18 41 (14)

Yellowknife
e 18 47 (50)

SEISMOLOGICAL BULLETIN - 1963

MAY 9
Edmonton
eP 19 35 (52)

MAY 9
U.S.C.G.S.
52.3S, 27.5E
1000 km Southwest
of Prince Edward
Island
H = 19 28 02.3
h = about 33 km

Coppermine
eP' 19 48 05

Resolute
eP' 19 47 42 d

MAY 9
Sept Iles
e 20 49 54

MAY 9
U.S.C.G.S.
53.9N, 165.2W
Fox Islands,
Aleutian Islands
H = 20 45 13.8
h = about 33 km

Coppermine
iP 20 50 58 d

Mould Bay
eP 20 51 07
(i) 20 54 29

Resolute
eP 20 51 56 d

Yellowknife
eP 20 51 00

MAY 10
Coppermine
eP 01 10 19

MAY 10
U.S.C.G.S.
30.2N, 130.8E
South of Kyushu,
Japan
H = 01 49 25
h = about 33 km
Mag 5.3 (CGS)

Coppermine
eP 02 00 39

Edmonton
eP 02 01 43

Mould Bay
eP 02 00 06

Resolute
eP 02 00 43 (d)

Yellowknife
eP 02 01 01

MAY 10
U.S.C.G.S.
20.0S, 168.1E
Loyalty Islands
H = 04 28 41.8
h = about 33 km
Mag 4.9 (CGS)

Coppermine
eP 04 42 41 d

Mould Bay
eP 04 42 50
i 04 47 01

Penticton
eP 04 41 58

Resolute
eP' 04 47 11 (d)

Yellowknife
eP 04 42 40

MAY 10
U.S.C.G.S.
40.9N, 47.8E
Azerbaijan, S.S.R.
H = 10 57 34.7
h = about 150 km

Mould Bay
eP 11 07 46

MAY 10
U.S.C.G.S.
8.4S, 67.6E
Indian Ocean
H = 11 09 41.6
h = about 33 km
Mag 5.9 (CGS)

Coppermine
eP' 11 28 32

DOMINION OBSERVATORIES

MAY 10
 U.S.C.G.S.
 7.8S, 74.5W
 Central Peru
 H = 13 05 20.6
 h = about 110 km
 Mag 4.8 (CGS)
 Coppermine
 eP 13 17 22
 Edmonton
 eP 13 16 15
 Mould Bay
 eP 13 17 58
 i 13 18 38
 Penticton
 iP 13 16 18
 Yellowknife
 eP 13 16 58

MAY 10
 U.S.C.G.S.
 2.2S, 77.6W
 Ecuador
 H = 22 22 42.2
 h = about 33 km
 Mag 6 3/4 (PAS)
 6 (BRK)
 6 (PAL)
 5.7 (CGS)
 Alert
 eP 22 35 15 c
 Coppermine
 iP 22 34 18 c
 Edmonton
 iP 22 33 06 c
 Halifax
 eP 22 31 (57)
 London
 eP 22 30 (59)
 Mould Bay
 iP 22 34 59 c
 Ottawa
 eP 22 31 15
 Penticton
 iP 22 33 07 c
 Resolute
 eP 22 34 34 c
 Scarborough
 eP 22 31 08
 S 22 38 40
 Schefferville
 eP 22 32 (31)
 Sept Iles
 eP 22 32 04
 Shawinigan Falls
 eP 22 31 28
 Victoria
 eP 22 33 11 c
 Yellowknife
 iP 22 33 53 c

MAY 10
 Mould Bay
 i 22 49 27

MAY 10
 Mould Bay
 i 23 10 39

MAY 10
 Mould Bay
 eP 23 40 57

MAY 11
 U.S.C.G.S.
 32.8N, 19.4E
 Off coast of
 Libya
 H = 01 10 48
 h = about 33 km
 Mag 5.8 (CGS)
 Yellowknife
 eP 01 23 16

MAY 11
 U.S.C.G.S.
 44.9N, 110.8W
 Yellowstone National
 Park, Wyoming
 H = 03 01 00.1
 h = about 33 km
 Edmonton
 e 03 03 (35)
 Penticton
 eP 03 03 06
 Yellowknife
 eP 03 05 06

SEISMOLOGICAL BULLETIN - 1963

MAY 11
 U.S.C.G.S.
 15.4S, 177.1W
 Fiji Islands
 Region
 H = 04 44 19.4
 h = about 400 km
 Mag 5.1 (CGS)
 Coppermine
 iP 04 56 55 c
 Edmonton
 eP 04 56 23
 Mould Bay
 eP 04 57 10.5
 Penticton
 iP 04 55 57 d

MAY 11
 Mould Bay
 eP 07 06 43
 i 07 08 23
 Resolute
 eP 07 07 12 (d)

MAY 11
 Penticton
 eP 14 18 03

MAY 11
 U.S.C.G.S.
 24.2N, 122.5E
 Off east coast
 of Formosa
 H = 17 49 43.0
 h = about 33 km
 Mag 4.5 (CGS)
 Alert
 iP 18 01 12
 Coppermine
 iP 18 01 44 d

Edmonton
 eP 18 02 36
 Mould Bay
 eP 18 01 09
 Penticton
 eP 18 02 34
 Resolute
 eP 18 01.42 (d)
 Victoria
 eP 18 02 26
 Yellowknife
 i 18 02 04

MAY 11
 Coppermine
 eP 18 02 27
 Mould Bay
 eP 18 01 53
 Resolute
 eP 18 02 24
 Yellowknife
 iP 18 02 47

MAY 11
 Mould Bay
 eP 18 33 10

MAY 11
 49° 43'N, 126° 26'W
 Nootka Sound
 H = 19 06 04
 Mag 2.5
 Alberni
 iP₁ 19 07 24.6
 iS₁ 19 07 39.8
 D = 126 km
 Port Hardy
 iP₁ 19 07 26.1
 iS₁ 19 07 43.2
 D = 135 km

Victoria
 eP_n 19 07 43.6
 D = 260 km

MAY 11
 U.S.C.G.S.
 34.9S, 108.2W
 Easter Island
 Region
 H = 19 44 23.5
 h = about 33 km
 Mag 4.6 (CGS)
 Penticton
 eP 19 56 55

MAY 11
 Mould Bay
 e 21 16 11

MAY 11
 Penticton
 eP 23 08 40

MAY 12
 U.S.C.G.S.
 41.8N, 136.5E
 Sea of Japan
 H = 01 07 36.1
 h = about 307 km
 Mag 4.6 (CGS)
 Alert
 iP 01 16 42 c
 Coppermine
 iP 01 17 00 c
 Edmonton
 eP 01 18 03
 Mould Bay
 iP 01 16 24 c
 i 01 17 28

DOMINION OBSERVATORIES

Penticton
iP 01 17 59 c
Resolute
eP 01 17 04 c
Yellowknife
iP 01 17 23 c

MAY 12
U.S.C.G.S.
36.5N, 140.6E
Near east coast
of Honshu, Japan
H = 02 57 15.5
h = about 33 km
Mag 4.4 (CGS)
Coppermine
eP 03 07 32
Edmonton
eP 03 08 26
Mould Bay
eP 03 07 01 (c)
Resolute
eP 03 07 42 c
Yellowknife
eP 03 07 (51)

MAY 12
H = 07 29 55
Mag 1.2
Alberni
eP₁ 07 30 16.0
D = 132 km
Victoria
iP₁ 07 29 58.3
iS₁ 07 30 00.8
D = 21 km

MAY 12
U.S.C.G.S.
57.5S, 159.4E
Macquarie
Islands
Region
H = 09 42 58.3
h = about 44 km
Mag 6.2 (CGS)
Alert
eP' 10 02 40
i 10 02 48
Coppermine
eP' 10 02 13
Edmonton
eP' 10 02 02
Mould Bay
eP' 10 02 21.5
Ottawa
eP' 10 02 26
Penticton
iP' 10 01 54 c
Resolute
eP' 10 02 31
Schefferville
eP' 10 02 43 d
Sept Iles
iP' 10 02 47
Shawinigan Falls
iP' 10 02 34 c
Yellowknife
eP' 10 02 03

MAY 12
Resolute
e(P) 10 45 (02)

MAY 12
U.S.C.G.S.
3.4S, 146.9E
Bismark Sea
H = 19 22 30.8
h = about 33 km
Mag 4.9 (CGS)
Yellowknife
eP 19 36 01
MAY 12
U.S.C.G.S.
57.4N, 153.9W
Kodiak Island,
Alaska
H = 20 08 43.0
h = about 80 km
Mag 5.9 (CGS)
Alert
iP 20 15 19 d
Coppermine
iP 20 13 14 d
Edmonton
iP 20 13 44 d
Halifax
eP 20 18 00 d
London
iP 20 17 03 d
Mould Bay
iP 20 13 38.5 c
iS 20 17 46.5
Ottawa
iP 20 17 11 d
Penticton
iP 20 13 31 d
Resolute
iP 20 14 26 d
Scarborough
eP 20 17 08
iS 20 23 56
Schefferville
iP 20 16 55 d

SEISMOLOGICAL BULLETIN - 1963

Sept Iles
iP 20 17 20 d
Shawinigan Falls
iP 20 17 17 d
Victoria
P 20 13 14
Yellowknife
iP 20 13 11

MAY 12
U.S.C.G.S.
55.9N, 163.1E
Near east coast
of Kamchatka
H = 20 37 12.9
h = about 33
Alert
eP 20 44 46 c
Mould Bay
iP 20 43 52 c
Penticton
eP 20 45 28
Resolute
eP 20 44 46 c
Schefferville
eP 20 47 33 c
Shawinigan Falls
eP 20 48 08 c
Yellowknife
iP 20 44 46

MAY 13
U.S.C.G.S.
6.7N, 73.1W
Northern Colombia
H = 01 32 36.1
h = about 140 km
Mag 4.3 (CGS)
Mould Bay
eP 01 43 56.5

Sept Iles
eP 01 40 28
MAY 13
Mould Bay
eP 02 58 34
MAY 13
Mould Bay
eP 05 25 22

MAY 13
Mould Bay
iP 06 19 42
MAY 13
U.S.C.G.S.
40.4N, 142.1E
Near coast of
northern Honshu,
Japan
H = 09 44 12.6
h = about 52 km
Mag 4.1 (CGS)
Alert
eP 09 53 53
Edmonton
eP 09 54 57 (d)
Mould Bay
eP 09 53 26.5 c
Resolute
eP 09 54 09 c
Yellowknife
iP 09 54 19 d

MAY 13
Mould Bay
eP 10 35 35 c

MAY 13
U.S.C.G.S.
14.5N, 92.9W
Mexico-Guatemala
Border
H = 12 44 00.7
h = about 60 km
Mag 4 3/4 - 5
(BRK)
5 1/4 - 5 1/2
(PAL)
5.6 (CGS)
Alert
iP 12 55 02 c
Coppermine
iP 12 53 30 c
Edmonton
iP 12 51 47 c
Mould Bay
iP 12 54 25 c
Resolute
iP 12 54 03 c
Schefferville
eP 12 52 11 d
Sept Iles
eP 12 51 42 (c)
Shawinigan Falls
eP 12 50 57
Victoria
P 12 51 49 c
Yellowknife
iP 12 52 53 c

MAY 13
Coppermine
iP 13 00 40 c
Mould Bay
iP 13 01 36 (c)
Yellowknife
iP 13 00 03 c

DOMINION OBSERVATORIES

MAY 13
 U.S.C.G.S.
 14.1N, 93.1W
 Off coast of
 Chiapas, Mexico
 H = 13 12 55.6
 h = about 33 km
 Coppermine
 iP 13 22 30 c
 Edmonton
 eP 13 20 47 c
 Mould Bay
 eP 13 23 25 c
 Resolute
 eP 13 23 04 d
 Victoria
 P 13 20 49
 Yellowknife
 iP 13 21 53 c

MAY 13
 U.S.C.G.S.
 19.5S, 169.3E
 New Hebrides
 Islands
 H = 14 07 46.8
 h = about 163 km
 Mag 5.6 (CGS)
 Coppermine
 iP 14 21 26
 Edmonton
 eP 14 21 06
 Mould Bay
 eP 14 21 33
 i 14 29 08
 Sept Iles
 eP' 14 26 30
 Shawinigan Falls
 eP' 14 26 23
 Victoria
 P 14 20 30

Yellowknife
 iP 14 21 18

MAY 13
 Mould Bay
 eP 16 02 56

MAY 13
 U.S.C.G.S.
 61.1N, 150.8W
 Kenai Peninsula
 Region, Alaska
 H = 17 50 20.4
 h = about 93 km
 Mag 4.5 (CGS)
 Alert
 eP 17 56 20

Coppermine
 iP 17 54 05 (c)
 Edmonton
 eP 17 55 02
 Mould Bay
 iP 17 54 32 (d)
 Penticton
 eP 17 54 57
 Yellowknife
 eP 17 54 12

MAY 13
 U.S.C.G.S.
 20.6S, 70.7W
 Near coast of
 northern Chile
 H = 18 03 04.4
 h = about 33 km
 Edmonton
 eP 18 15 25
 Yellowknife
 eP 18 16 01

MAY 13
 Resolute
 eP 18 55 26

MAY 13
 Coppermine
 e 20 35 05
 Mould Bay
 i 20 31 46
 e 20 36 00

MAY 13
 Coppermine
 eP 20 50 49
 Mould Bay
 iP 20 51 12

MAY 14
 Resolute
 eP 05 30 49

MAY 14
 U.S.C.G.S.
 10.0N, 62.0W
 Near coast of
 Venezuela
 H = 08 05 30.5
 h = about 53 km
 Edmonton
 eP 08 15 29 d
 Mould Bay
 eP 08 16 55

SEISMOLOGICAL BULLETIN - 1963

MAY 14
 U.S.C.G.S.
 57.3N, 154.2W
 Kodiak Island,
 Alaska
 H = 13 50 40.9
 h = about 37 km
 Mag 4.6 (CGS)
 Coppermine
 eP 13 55 16
 Edmonton
 eP 13 55 47
 Mould Bay
 eP 13 55 42 d
 Penticton
 iP 13 55 33 d
 Resolute
 eP 13 56 29 (d)
 Sept Iles
 eP 13 59 23
 Yellowknife
 iP 13 55 14 (d)

MAY 14
 U.S.C.G.S.
 5.6S, 127.8E
 Banda Sea
 H = 15 08 46.1
 h = about 405 km
 Mag 5.3 (CGS)
 Edmonton
 eP' 15 26 35
 Mould Bay
 eP 15 21 51 c

MAY 14
 Sept Iles
 eP 18 26 11
 e 18 27 13

MAY 14
 U.S.C.G.S.
 4.1S, 152.8E
 New Britian
 H = 23 14 47.0
 h = about 58 km
 Mag 4.8 (CGS)
 Mould Bay
 eP 23 27 57

MAY 15
 U.S.C.G.S.
 3.4S, 146.8E
 Bismark Sea
 H = 02 52 39.7
 h = about 33 km
 Mag 5.7 (CGS)
 Penticton
 eP 03 06 01

MAY 15
 Mould Bay
 eP 05 12 37

MAY 15
 Mould Bay
 eP 06 24 26

MAY 15
 U.S.C.G.S.
 38.5N, 75.5E
 Hindu Kush
 Region
 H = 06 35 24.8
 h = about 33 km
 Mag 4.4 (CGS)
 Coppermine
 eP 06 46 58

Edmonton
 eP 06 48 (15)
 Mould Bay
 eP 06 46 04
 Yellowknife
 eP 06 47 (27)

MAY 15
 Mould Bay
 eP 07 08 00

MAY 15
 Edmonton
 eP 09 20 59

MAY 15
 U.S.C.G.S.
 41.8N, 20.2E
 Albania
 H = 11 15 39.5
 h = about 33 km
 Mag 4.4 (CGS)
 Coppermine
 eP 11 26 22
 Edmonton
 eP 11 27 32
 Mould Bay
 eP 11 25 41
 Resolute
 eP 11 25 18
 Yellowknife
 iP 11 26 48 c

DOMINION OBSERVATORIES

MAY 15
U.S.C.G.S.
38.0N, 26.4W
Azores Region
H = 12 08 08.8
h = about 33 km
Mag 5.3 (CGS)
Alert
eP 12 16 31
Coppermine
iP 12 17 37 d
Edmonton
eP 12 18 07
Mould Bay
eP 12 17 31.5 d
Penticton
eP 12 18 42
Resolute
eP 12 16 47 d
Sept Iles
eP 12 14 29
Yellowknife
iP 12 17 47 c

MAY 15
Mould Bay
iP 15 43 39
Resolute
eP 15 44 10 c

MAY 15
Coppermine
eP 19 18 21

MAY 15
Coppermine
eP 19 48 02

MAY 16
Mould Bay
eP 03 40 19

MAY 16
Mould Bay
eP 06 44 32 (c)

MAY 15
Mould Bay
eP 13 45 38 (c)

MAY 15
U.S.C.G.S.
24.1N, 122.8E
Off east coast
of Formosa
H = 15 32 11.3
h = about 33 km
Mag 5.6 (CGS)
Coppermine
iP 15 44 12 c
Edmonton
eP 15 45 05 c

MAY 16
81°30'N ± 15',
86°30'W ± 1.0°
About 30 miles
north of Otto
Fiord, Ellesmere
Island, N.W.T.
H = 15 13 12.2
Mag 3.7

Alert
P_n 15 14 07.5c,n,e
S_n 15 14 47.9
L_g 15 15 07.5
D = 400 km
Mould Bay
P_n 15 15 08
S_n 15 16 36
D = 895 km
Resolute
P_n 15 14 52
S_n 15 15 08
D = 775 km

MAY 16
U.S.C.G.S.
0.8S, 128.5E
Halmahera Region
H = 15 52 18.4
h = about 50 km
Mag 4.4 (CGS)
Coppermine
eP 16 06 (05)
Mould Bay
eP 16 05 (40)
Resolute
eP 16 06 (07)

MAY 16
Resolute
e(P) 16 14 (55)

MAY 16
U.S.C.G.S.
1.0S, 128.8E
Halmahera Region
H = 16 17 59.8
h = about 33 km
Mag 4.3 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Coppermine
eP 16 31 46
Mould Bay
eP 16 31 25
Resolute
eP 16 31 (53)

MAY 16
47°41'N,
123°09'W
H = 19 01 25
Mag 1.9
Alberni
eP₁ 19 01 47.4
D = 138 km
Victoria
iP₁ 19 01 29.4
iS₁ 19 01 32.5
D = 25 km

MAY 16
U.S.C.G.S.
17.6S, 178.7W
Fiji Islands,
Region
H = 19 20 05.7
h = about 510 km
Mag 4.8 (CGS)
Penticton
iP 19 31 45

MAY 16
U.S.C.G.S.
16.8N, 99.0W
Guerrero, Mexico
H = 20 42 33.5
h = about 33 km
Alert
eP 20 53 21

Coppermine
eP 20 51 42
i 20 51 49
Edmonton
eP 20 50 06 (c)
Mould Bay
eP 20 52 41
i 20 52 45
Penticton
iP 20 50 02
Resolute
eP 20 52 23 c

MAY 16
U.S.C.G.S.
41.6N, 142.0E
South of Hokkaido,
Japan
H = 22 05 53.4
h = about 65 km
Mag 5.0 (CGS)
Coppermine
eP 22 15 31
Resolute
eP 22 15 41 c

MAY 16
U.S.C.G.S.
43.9N, 147.1E
Kurile Islands
Region
H = 23 37 26
h = about 33 km
Mag 4.2 (CGS)
Coppermine
eP 23 46 40

MAY 17
Ottawa
eP 00 04 (50)

MAY 17
Resolute
e(P) 03 37 11

MAY 17
U.S.C.G.S.
45.3N, 150.8E
Kurile Islands
Region
H = 04 06 36.2
h = about 33 km
Mag 5.9 (CGS)
Alert
eP 04 15 39
Coppermine
iP 04 15 33 c
Edmonton
iP 04 16 31 c
Mould Bay
eP 04 15 02 c
iS 04 21 47
Ottawa
eP 04 18 46 c
Penticton
iP 04 16 23 c
Resolute
eP 04 15 49 c
Schefferville
eP 04 18 18 c
Sept Iles
iP 04 18 40 c
Shawinigan Falls
eP 04 18 48 c
Victoria
P 04 16 10
Yellowknife
iP 04 15 52 c

DOMINION OBSERVATORIES

MAY 17
U.S.C.G.S.
15.7N, 120.1E
Near west coast
of Luzon, Philip-
pine Islands
H = 06 09 18.2
h = about 80 km
Mag 5.5 (CGS)
Alert
eP 06 21 31 d
S 06 31 38
Coppermine
iP 06 21 59 d
Edmonton
eP 06 22 46
Mould Bay
eP 06 21 29
S 06 31 (30)
Penticton
eP 06 22 42
Resolute
eP 06 21 57 d
Victoria
P 06 22 34
Yellowknife
iP 06 22 17

MAY 17
Edmonton
e(P) 06 39 21
Mould Bay
i 06 40 00

MAY 17
Edmonton
eP 07 04 20 d
Penticton
eP 07 04 09

MAY 17
U.S.C.G.S.
31.0S, 179.8W
Kermadec Islands
Region
H = 07 33 17.5
h = about 358 km
Mag 4.7 (CGS)
Mould Bay
eP' 07 51 11
Resolute
eP' 07 51 20 d

MAY 17
Edmonton
eP 09 21 48

MAY 17
Resolute
e(P) 09 52 19

MAY 17
U.S.C.G.S.
32.3N, 140.7E
South of Honshu,
Japan
H = 10 34 54.8
h = about 115 km
Mag 4.2 (CGS)
Coppermine
eP 10 45 27
Mould Bay
eP 10 44 59
Resolute
eP 10 45 39 (d)

MAY 17
Mould Bay
eP 12 14 10

MAY 17
U.S.C.G.S.
41.7N, 141.9E
South of Hokkaido,
Japan
H = 12 09 05.6
h = about 47 km
Mag 4.8 (CGS)
Alert
iP 12 18 37 c
Banff
eP 12 20 04
Coppermine
iP 12 18 45 c
Edmonton
eP 12 19 46
Mould Bay
eP 12 18 12 c
Penticton
eP 12 19 40
Resolute
eP 12 18 55 (c)
Schefferville
eP 12 21 (15)
Victoria
P 12 19 29
Yellowknife
eP 12 19 06

MAY 17
U.S.C.G.S.
14.1S, 74.2E
Southern Peru
H = 14 11 01.5
h = about 51 km
Mag 5.1 (CGS)
Edmonton
eP 14 22 38
Mould Bay
eP 14 24 16 c
Resolute
eP 14 23 54 d

SEISMOLOGICAL BULLETIN 1963

Schefferville
eP 14 22 02 c
Yellowknife
iP 14 23 20 c

MAY 17
Edmonton
eP 14 58 (56)

MAY 17
Resolute
e(P) 17 26 (49)

MAY 17
Mould Bay
eP 17 29 04
Resolute
eP 17 29 30

MAY 17
H = 21 43 33
Mag 1.6
Penticton
eP₁ 21 43 57.2
eS₁ 21 44 16.6
D = 151 km

MAY 17
H = 21 44 54
Mag 1.3
Banff
eP₁ 21 44 59
eS₁ 21 45 03
D = 33 km

MAY 17
Schefferville
eP 22 36 (35)

MAY 17
U.S.C.G.S.
24.4S, 177.2W
Tonga Islands
Region
H = 22 40 06.7
h = about 70 km
Mag 5.9 (CGS)
Alert
e 22 59 (51)
Edmonton
eP 22 53 22
Mould Bay
eP 22 54 (10)
eP' 22 58 21
Penticton
iP 22 52 58 d
Resolute
eP' 22 58 (30)

MAY 17
U.S.C.G.S.
13.5N, 142.5E
Mariana Islands
Region
H = 23 04 58
h = about 163 km
Mag 4.3 (CGS)
Mould Bay
eP 23 16 44 c
Resolute
eP 23 17 16 c

MAY 17
U.S.C.G.S.
63.5N, 148.5W
Alaska
H = 23 36 42
h = about 33 km
Edmonton
eP 23 41 26
Mould Bay
eP 23 40 (26)

MAY 18
U.S.C.G.S.
29.6S, 68.5W
LaRioja Province
Argentina
H = 05 33 25.0
h = about 29 km
Banff
eP 05 46 24
Edmonton
eP 05 46 28
Halifax
eP 05 45 02
London
eP 05 44 54
Mould Bay
eP' 05 51 (55)
Ottawa
eP 05 45 12
Penticton
eP 05 46 26
Schefferville
eP 05 45 55
Shawinigan Falls
eP 05 45 11
Victoria
P 05 46 40

DOMINION OBSERVATORIES

MAY 18
 H = 08 01 34
 Mag 1.6
 Penticton
 eP₁ 08 01 54.0
 eS₁ 08 02 08.9
 D = 122 km

MAY 18
 U.S.C.G.S.
 8.2S, 115.6E
 Bali
 H = 12 20 31.9
 h = about 39 km
 Mag 5.9 (CGS)
 Edmonton
 eP' 12 39 (16)
 Resolute
 eP' 12 39 (01)
 Yellowknife
 eP' 12 39 08 d

MAY 18
 U.S.C.G.S.
 8.2S, 115.7E
 Bali
 H = 13 03 35.8
 h = about 68 km
 Edmonton
 eP' 13 22 20
 Yellowknife
 eP' 13 22 09 d

MAY 18
 48°44'N, 121°59'W
 H = 14 04 01
 Near Mount Baker, U.S.A.
 Mag 2.1
 Alberni
 eP_n 14 04 33.4
 D = 217 km

Penticton
 eP 14 04 29
 D_n = 182 km
 Victoria
 eP₁ 14 04 17.1
 eS₁ 14 04 29.4
 D = 108 km

MAY 18
 U.S.C.G.S.
 49.5N, 156.2E
 Kurile Islands
 Region
 H = 23 47 17.3
 h = about 70 km
 Mag 5.5 (CGS)
 Alert
 iP 23 55 42 c
 Coppermine
 iP 23 55 27 c
 Edmonton
 iP 23 56 28 c
 Mould Bay
 eP 23 54 58 c
 Resolute
 eP 23 55 48 c

MAY 19
 Edmonton
 e(P) 00 11 (44)
 Mould Bay
 iP 00 09 36 d

MAY 19
 U.S.C.G.S.
 46.5S, 75.1W
 Coast of southern
 Chile
 H = 01 03 04.1
 h = about 33 km
 Mag 6 3/4 (PAS)
 6.5 (CGS)
 Alert
 eP' 01 22 (06)
 Coppermine
 eP' 01 21 (47)
 Edmonton
 eP 01 17 06

SEISMOLOGICAL BULLETIN - 1963

Halifax
 eP 01 16 09
 London
 iP 01 15 56 c
 Mould Bay
 eP' 01 21 (50)
 Ottawa
 eP 01 16 07
 Penticton
 eP 01 16 58
 Resolute
 eP' 01 21 53
 Scarboro
 eP 01 16 01

MAY 19
 Mould Bay
 eP 04 27 33

MAY 19
 U.S.C.G.S.
 17.0N, 100.0W
 Guerrero, Mexico
 H = 04 33 36
 h = about 40 km
 Coppermine
 eP 04 42 42
 Mould Bay
 eP 04 43 41

MAY 19
 Edmonton
 eP 10 07 12 c

MAY 19
 U.S.C.G.S.
 46.0N, 14.7E
 Northwestern
 Yugoslavia
 H = 10 00 04.6
 h = about 33 km
 Mag 4.9 (CGS)
 Coppermine
 iP 10 10 12
 Edmonton
 eP 10 11 24 c
 Mould Bay
 eP 10 09 31 c
 Resolute
 eP 10 09 04
 Yellowknife
 iP 10 10 39 d

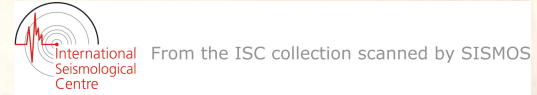
MAY 19
 U.S.C.G.S.
 1.5N, 126.0E
 Molucca Sea
 H = 11 02 36
 h = about 106 km
 Coppermine
 eP 11 16 08

MAY 19
 Coppermine
 eP 13 37 14
 Edmonton
 eP 13 38 33 (d)
 Mould Bay
 eP 13 36 22

MAY 19
 Edmonton
 eP 15 23 (23)

MAY 19
 43°30'N ± 12',
 75°14'W ± 15'
 About 20 miles
 north of Rome,
 N.Y.
 Felt around Lyons
 Falls, N.Y.
 H = 19 14 17.6
 Mag 3.5
 Montreal
 P₁ 19 46 58.3
 S₁ 19 47 29.7
 D = 257 km
 Ottawa
 P₁ 19 46 52.4
 S₁ 19 47 18.6
 eL 19 47 32
 D = 215 km
 Shawinigan Falls
 S₁ 19 48 15.7
 D = 418 km

MAY 19
 U.S.C.G.S.
 2.3N, 128.6E
 Halmahera Region
 H = 19 21 22
 h = about 166 km
 Mag 4.3 (CGS)
 Coppermine
 eP 19 34 39
 Mould Bay
 eP 19 34 18
 Resolute
 eP 19 34 46 (d)



SEISMOLOGICAL BULLETIN - 1963

DOMINION OBSERVATORIES

MAY 19
U.S.C.G.S.
23.8N, 45.9W
North Atlantic
Ocean
H = 21 35 49.6
h = about 33 km
Mag 6 1/4 - 6 1/2
(BRK)
6 1/2 (PAS)
6.0 (CGS)
Alert
eP 21 45 48
S 21 53 57
Banff
eP 21 45 49
Coppermine
iP 21 45 58 c
Edmonton
eP 21 45 40 d
Halifax
iP 21 41 16 (c)
London
iP 21 42 40 c
Mould Bay
eP 21 46 15.5
Ottawa
iP 21 42 18 (c)
Penticton
iP 21 46 08 d
Port Hardy
eP 21 45 40
Resolute
eP 21 45 32 (d)
Schefferville
eP 21 42 37
Scarboro
iP 21 42 31 c
Shawinigan Falls
iP 21 42 (10) d
Victoria
P 21 46 23

Yellowknife
iP 21 45 48
MAY 19
U.S.C.G.S.
17.8S, 69.4W
Peru-Bolivia-
Chile Border
Region
H = 23 31 25.7
h = about 148 km
Mag 5.5 (CGS)
Banff
eP 23 43 18
Coppermine
eP 23 44 17
Edmonton
iP 23 43 21 d
Mould Bay
eP 23 44 49
i 23 45 30
Penticton
iP 23 43 23 d
Resolute
eP 23 44 27 (d)
Schefferville
eP 23 42 36
Victoria
P 23 43 29
MAY 20
U.S.C.G.S.
8.3N, 83.0W
Panama-Costa
Rica Border
H = 01 35 32.7
h = about 33 km
Coppermine
eP 01 46 03
Edmonton
eP 01 44 32 (c)

Mould Bay
eP 01 46 41
i 01 46 46
Ottawa
eP 01 42 45
Penticton
eP 01 44 31
Resolute
eP 01 46 (19)
Schefferville
eP 01 44 09
MAY 20
Mould Bay
eP 01 51 36
MAY 20
U.S.C.G.S.
8.3N, 83.0W
Panama-Costa
Rica Border
H = 02 43 16.3
h = about 33 km
Mag 4.3 (CGS)
Edmonton
eP 02 52 (14)
Mould Bay
eP 02 54 28
Resolute
eP 02 54 (04)

MAY 20
Coppermine
eP 05 31 13
MAY 20
Penticton
eP 07 23 12

MAY 20
U.S.C.G.S.
19.1N, 121.3E
Off north coast
of Luzon, Philip-
pine Islands
H = 09 08 04.1
h = about 50 km
Mag 4.7 (CGS)
Coppermine
iP 09 20 31 d
Edmonton
eP 09 21 19 (d)
Mould Bay
eP 09 19 58
Resolute
eP 09 20 28

MAY 20
Penticton
eP 10 21 25

MAY 20
Mould Bay
e(P) 10 30 (59)

MAY 20
Edmonton
eP 10 56 53

MAY 20
U.S.C.G.S.
30.7S, 178.3W
Kermadec Islands
Region
H = 11 38 00.9
h = about 34 km
Mag 6 3/4 - 7 (PAS)
6 1/2 (BRK)
6.2 (CGS)

Alert
eP' 11 56 54 c
i 12 06 44

Banff
eP 11 51 36

Coppermine
eP' 11 56 (26)

Edmonton
eP 11 51 47 c

Halifax
eP' 11 57 03 (c)

London
eP' 11 56 38 (c)

Mould Bay
eP 11 52 47
eP' 11 56 33

Ottawa
iP' 11 56 46 d

Penticton
iP 11 51 22 c

Resolute
eP' 11 56 42

Scarboro
eP' 11 56 (42)

Schefferville
eP' 11 57 00 (c)

Victoria
P 11 51 11

MAY 20
Coppermine
eP 12 51 28

Mould Bay
eP 12 51 39

MAY 20
U.S.C.G.S.
1.6N, 77.7W
Colombia
H = 13 22 12
h = about 140 km
Edmonton
eP 13 31 59 c

MAY 20
U.S.C.G.S.
24.1N, 45.9W
North Atlantic
Ocean
H = 13 54 06.2
h = about 33 km
Mag 4.5 (CGS)
Alert
eP 14 04 03 c
Edmonton
eP 14 03 56 c

MAY 20
Coppermine
eP 16 26 53

MAY 20
U.S.C.G.S.
72.1N, 126.3E
Yakutsk A.S.S.R.
H = 17 01 40.2
h = about 33 km
Mag 4.5 (CGS)
Coppermine
eP 17 08 27

DOMINION OBSERVATORIES

Mould Bay
eP 17 07 18.5
Resolute
eP 17 08 (02)

MAY 20
Mould Bay
iP 19 29 16

MAY 20
U.S.C.G.S.
2.5N, 128.8E
Halmahera Region
H = 21 04 57
h = about 148 km
Mag 4.9 (CGS)
Coppermine
eP 21 18 15 d
Mould Bay
eP 21 17 (54)
Resolute
eP 21 18 23

MAY 21
U.S.C.G.S.
56.0S, 123.9W
South Pacific
Ocean
H = 00 58 07.4
h = about 33 km
Mould Bay
eP' 01 17 12

MAY 21
Penticton
iP 02 01 03

MAY 21
U.S.C.G.S.
18.9N, 146.0E
Mariana Islands
Region
H = 09 44 40.3
h = about 180 km
Coppermine
eP 09 56 08
Mould Bay
eP 09 55 50

MAY 21
Coppermine
eP 10 15 39
Mould Bay
eP 10 15 35.5
i 10 15 50

MAY 21
U.S.C.G.S.
21.1S, 69.0W
Northern Chile
H = 10 16 19.1
h = about 110 km
Edmonton
eP 10 28 33 d

MAY 21
U.S.C.G.S.
11.0S, 163.1E
Solomon Islands
Region
H = 15 16 06.6
h = about 64 km
Mag 4.8 (CGS)
Coppermine
eP 15 29 32

MAY 21
U.S.C.G.S.
51.4N, 159.1E
Off east coast of
Kamchatka
H = 16 23 28.9
h = about 33 km
Mould Bay
eP 16 30 52.5
Resolute
eP 16 31 44

MAY 21
U.S.C.G.S.
36.3N, 140.3E
Near east coast
of Honshu, Japan
H = 17 10 47.6
h = about 33 km
Mag 4.1 (CGS)
Coppermine
eP 17 21 06
Mould Bay
eP 17 20 34

MAY 21
U.S.C.G.S.
11.1S, 163.3E
Solomon Islands
Region
H = 17 30 15.4
h = about 33 km
Mag 5 3/4 - 6
(PAL)
5.4 (CGS)
Banff
eP 17 43 26
Coppermine
eP 17 43 45
Edmonton
eP 17 43 36

SEISMOLOGICAL BULLETIN - 1963

Mould Bay
eP 17 43 49
Penticton
eP 17 43 13
Victoria
eP 17 43 01

MAY 21
H = 17 49 01
Mag 2.8
In Puget Sound
area
Alberni
iP1 17 49 28.7
D = 176 km
Victoria
iP1 17 49 13.5 c
iS1 17 49 23.3
D = 81 km

MAY 21
U.S.C.G.S.
24.0N, 108.6W
Gulf of
California
H = 20 03 32.0
h = about 33 km
Mould Bay
eP 20 12 42

MAY 22
U.S.C.G.S.
11.3S, 163.2E
Solomon Islands
Region
H = 02 27 56.3
h = about 60 km
Mag 5.1 (CGS)
Coppermine
eP 02 41 21

Edmonton
eP 02 41 (13)
Penticton
eP 02 40 51
Yellowknife
iP 02 41 17

MAY 22
Mould Bay
eP 02 43 59

MAY 22
U.S.C.G.S.
17.7N, 106.0W
Off west coast
of Mexico
H = 04 24 29.6
h = about 33 km
Mag 4.6 (CGS)
Coppermine
eP 04 33 26
Edmonton
eP 04 31 28 c
Mould Bay
eP 04 34 26
Resolute
eP 04 34 (14)

MAY 22
Penticton
eP 05 16 25

MAY 22
U.S.C.G.S.
46.0N, 151.2E
Kurile Islands
H = 05 42 29.8
h = about 86 km
Mag 4.7 (CGS)

Coppermine
iP 05 51 14 c
Edmonton
eP 05 52 13 c
Mould Bay
eP 05 50 44 d
Penticton
eP 05 52 05
Resolute
eP 05 51 31

MAY 22
Penticton
eP 07 36 29

MAY 22
U.S.C.G.S.
11.0S, 163.5E
Solomon Islands
Coppermine
Region
H = 10 18 27.0
h = about 37 km
Mag 5.2 (CGS)
Edmonton
eP 10 31 45

MAY 22
U.S.C.G.S.
48.6N, 154.7E
Kurile Islands
Region
H = 13 56 43.0
h = about 22 km
Mag 6 1/2 (PAS)
6 (BRK)
6.3 (CGS)

Alert
eP 14 05 20
Banff
eP 14 06 08

DOMINION OBSERVATORIES

Coppermine
eP 14 05 08 c
Edmonton
eP 14 06 09 c
Halifax
eP 14 08 59
London
iP 14 08 32 c
Mould Bay
eP 14 04 38
Penticton
iP 14 06 01 d
Resolute
eP 14 05 27 c
Schefferville
eP 14 08 01
Sept Iles
eP 14 08 26
Shawinigan Falls
eP 14 08 32
Victoria
eP 14 05 50

Schefferville
eP 15 47 16
MAY 22
U.S.C.G.S.
4.3N, 127.9E
Molucca Passage
H = 15 42 48.6
h = about 58 km
Mag 5.0 (CGS)
Coppermine
iP 15 56 09 c
Edmonton
eP 15 56 44
Mould Bay
eP 15 55 48 c
Resolute
eP 15 56 15 c
Schefferville
eP' 16 01 34
Shawinigan Falls
eP' 16 01 45 c

Resolute
eP 16 32 32 d
Schefferville
eP 16 34 58 d

MAY 22
U.S.C.G.S.
55.1N, 160.2E
Kamchatka
H = 16 28 49
h = about 33 km
Edmonton
eP 16 37 27
Penticton
eP 16 37 16
MAY 22
Edmonton
eP 16 57 (03)

MAY 22
Lower Vancouver
Island
H = 21 29 59
Mag 1.4
Alberni
iP₁ 21 30 16.3
D = 110 km
Victoria
iP₁ 21 30 02.4
iS₁ 21 30 05.2
D = 23 km

MAY 22
Schefferville
eP 14 35 49
MAY 22
Edmonton
eP 15 43 51
Penticton
eP 15 43 (03)
MAY 22
Mould Bay
eP 15 47 31 c
i 15 51 11
i 15 51 40
Resolute
eP 15 47 27 c

MAY 22
U.S.C.G.S.
52.2N, 165.3W
Fox Islands,
Aleutian Islands
H = 16 25 36.8
h = about 33 km
Mag 4.2 (CGS)
Alert
eP 16 33 14
Coppermine
iP 16 31 32
Edmonton
eP 16 31 53
Mould Bay
iP 16 31 44 d
Penticton
iP 16 31 33

SEISMOLOGICAL BULLETIN - 1963

MAY 22
U.S.C.G.S.
8.2S, 115.7E
Java Sea
H = 21 53 02.5
h = about 33 km
Mag 5.6 (CGS)
Coppermine
eP' 22 11 33
Halifax
eP' 22 12 35
Schefferville
eP' 22 12 16
MAY 22
U.S.C.G.S.
49.3N, 155.4E
Kurile Islands
Region
H = 22 00 44.2
h = about 33 km
Mag 5.1 (CGS)
Edmonton
eP 22 10 04 c
Penticton
eP 22 09 56
Resolute
eP 22 09 23 d
MAY 22
U.S.C.G.S.
37.0N, 123.1W
Off coast of
California
H = 22 40 59.1
h = about 14 km
Mag 4 1/2 - 5
(BRK)
Edmonton
eP 22 45 09 d

Mould Bay
eP 22 48 35
Resolute
eP 22 48 40 c
MAY 23
U.S.C.G.S.
1.6N, 126.4E
Molucca Passage
H = 00 51 40.3
h = about 33 km
Mag 4.8 (CGS)
Coppermine
eP 01 05 18 c
Mould Bay
eP 01 04 56 c
Resolute
eP 01 05 23 c

MAY 23
U.S.C.G.S.
60.0N, 150.4W
Kenai Peninsula,
Alaska
H = 03 15 28.0
h = about 36 km
Mag 5.2 (CGS)
Coppermine
eP 03 19 27
Mould Bay
eP 03 19 54
Resolute
eP 03 20 46

MAY 23
U.S.C.G.S.
15.0S, 176.7W
Fiji Islands
Region
H = 03 33 19.1
h = about 279 km
Mag 5.4 (CGS)
Coppermine
eP 03 46 06
Edmonton
iP 03 45 34 c
Mould Bay
eP 03 46 21 c
Penticton
iP 03 45 47 c
Resolute
eP 03 46 44
Yellowknife
iP 03 45 53

MAY 23
U.S.C.G.S.
1.3S, 80.7W
Near coast of
Ecuador
H = 03 57 41.1
h = about 33 km
Mag 5.0 (CGS)
Coppermine
eP 04 09 09
Penticton
eP 04 07 48
Resolute
eP 04 09 25
Yellowknife
iP 04 08 39

MAY 23
Mould Bay
eP 04 49 00 (c)

DOMINION OBSERVATORIES

Yellowknife
e(P) 04 50 30

MAY 23
U.S.C.G.S.
32.9N, 115.5W
Imperial County,
California
H = 06 36 32.6
h = about 14 km
Mag 4.4 (PAS)
4.6 (CGS)
Edmonton
eP 06 41 10

MAY 23
U.S.C.G.S.
18.4N, 145.2E
Mariana Islands
Region
H = 06 57 51.8
h = about 478 km
Mag 4.5 (CGS)
Coppermine
eP 07 08 53 d
Edmonton
eP 07 09 22 d

Mould Bay
iP 07 08 36 d
i 07 10 29
Resolute
eP 07 09 10 d

MAY 23
U.S.C.G.S.
19.2N, 64.6W
Leeward Islands
Region
H = 07 43 58.0
h = about 55 km
Mag 5.4 (CGS)
Alert
eP 07 54 22
Coppermine
eP 07 53 45
Edmonton
eP 07 52 51
London
eP 07 50 18
Mould Bay
eP 07 54 23 c
Resolute
eP 07 53 (45)
Schefferville
eP 07 50 (53)
Scarboro
eP 07 49 (54)
Shawinigan Falls
eP 07 49 (51)

MAY 23
U.S.C.G.S.
32.8N, 115.6W
Imperial County,
California
Mag 4.6 (PAS)
4.6 (CGS)
Edmonton
eP 09 10 42 c

MAY 23
U.S.C.G.S.
36.6N, 30.0E
Near south coast
of Turkey
H = 10 15 08.9
h = about 226 km
Edmonton
eP 10 27 21
Mould Bay
eP 10 25 32 d
Resolute
eP 10 25 15 d

MAY 23
U.S.C.G.S.
36.9N, 141.0E
Near east coast
of Honshu, Japan
H = 10 43 30.6
h = about 39 km
Mould Bay
eP 10 53 12.5
Resolute
eP 10 53 54 c

MAY 23
U.S.C.G.S.
6.0N, 126.1E
Near east coast
of Mindanao, P.I.
H = 15 12 05.7
h = about 88 km
Mag 5.5 (CGS)
Alert
eP 15 25 05 c
Coppermine
eP 15 25 19
Edmonton
eP 15 25 22

SEISMOLOGICAL BULLETIN - 1963

London
iP' 15 30 59 d
Mould Bay
eP 15 24 56
Resolute
eP 15 25 23
Schefferville
eP' 15 30 46 d
Yellowknife
iP 15 25 31

MAY 23
Mould Bay
eP 15 42 26

MAY 23
U.S.C.G.S.
32.5N, 115.3W
Baha California
Norte
H = 15 53 00.2
h = about 14 km
Mag 4.8 (PAS)
Edmonton
eP 15 57 (41)
Mould Bay
eP 16 01 08

MAY 23
U.S.C.G.S.
46.6N, 152.3E
Kurile Islands
Region
H = 16 27 42.5
h = about 52 km
Mag 5.6 (CGS)
Alert
eP 16 36 31
Coppermine
eP 16 36 24

Edmonton
eP 16 37 23
Mould Bay
iP 16 35 53.5
Resolute
eP 16 36 41 c
Yellowknife
iP 16 36 43 (c)

MAY 23
Mould Bay
eP 17 24 25 (c)

MAY 23
Mould Bay
eP 17 37 43

MAY 23
U.S.C.G.S.
14.5N, 105.2W
Off west coast
of Mexico
H = 18 21 18.3
h = about 33 km
Alert
eP 18 32 31
Coppermine
eP 18 30 40
Edmonton
eP 18 28 45 d

Mould Bay
eP 18 31 40 c
Resolute
eP 18 31 (27)
Schefferville
eP 18 30 (15)
Shawinigan Falls
eP 18 29 10

MAY 23
Mould Bay
iP 19 41 05
Resolute
eP 19 41 52

MAY 23
Resolute
e(P) 20 21 26

MAY 23
U.S.C.G.S.
52.1N, 178.6W
Andreanof Islands
Region,
Aleutian Islands
H = 21 37 36.3
h = about 60 km
Mag 4.4 (CGS)
Mould Bay
eP 21 44 05.5
i 21 44 56

MAY 23
Edmonton
eP 23 17 47
Resolute
eP 23 17 06 c

MAY 24
Coppermine
eP 03 06 04
Mould Bay
eP 03 05 12 d

DOMINION OBSERVATORIES

MAY 24
 U.S.C.G.S.
 12.0N, 88.3W
 Off coast of
 El Salvador
 H = 06 19 07.8
 h = about 33 km
 Coppermine
 iP 06 20 03 (c)
 Edmonton
 eP 06 18 27 c
 Mould Bay
 eP 06 20 54 c
 Resolute
 eP 06 20 31 c
 Yellowknife
 iP 06 19 28

MAY 24
 U.S.C.G.S.
 58.2N, 136.8W
 Southeastern
 Alaska
 H = 07 33 05.8
 h = about 33 km
 Coppermine
 eP 07 36 20
 Edmonton
 eP 07 36 24 d
 Mould Bay
 eP 07 37 28 (c)
 Resolute
 eP 07 38 (11)
 Yellowknife
 eP 07 35 (49)

MAY 24
 Coppermine
 eP 15 52 14

MAY 24
 U.S.C.G.S.
 37.1N, 140.8E
 Near east coast
 of Honshu, Japan
 H = 21 00 25.1
 h = about 52 km
 Mould Bay
 eP 21 10 06
 Resolute
 eP 21 10 42

MAY 25
 U.S.C.G.S.
 24.8N, 121.9E
 Near coast of
 Formosa
 H = 01 35 50.4
 h = about 33 km
 Mag 4.7 (CGS)
 Edmonton
 eP 01 48 41 d
 Mould Bay
 iP 01 47 14
 Resolute
 eP 01 47 46 d

MAY 25
 U.S.C.G.S.
 35.6N, 139.7E
 Near east coast
 of Honshu, Japan
 H = 02 37 55.7
 h = about 77 km
 Edmonton
 eP 02 49 (07)
 Mould Bay
 eP 02 47 45
 Resolute
 eP 02 48 25 d

MAY 25
 U.S.C.G.S.
 54.4N, 164.6W
 Unimak Island,
 Aleutian Islands
 H = 04 22 46.8
 h = about 70 km
 Mould Bay
 eP 04 28 29
 Yellowknife
 eP 04 28 22

MAY 25
 Edmonton
 eP 05 40 01 (c)

MAY 25
 Edmonton
 eP 07 17 41 d

MAY 25
 U.S.C.G.S.
 51.7N, 179.7E
 Rat Islands
 Region, Aleutian
 Islands
 H = 07 35 03.9
 h = about 83 km
 Mag 4.8 (CGS)
 Edmonton
 eP 07 42 (26)
 Mould Bay
 eP 07 41 39 d
 Resolute
 eP 07 42 (31)

SEISMOLOGICAL BULLETIN - 1963

MAY 25
 U.S.C.G.S.
 23.8S, 66.6W
 Salta Province,
 Argentina
 H = 07 57 02
 h = about 210 km
 Mag 4.9 (CGS)
 Edmonton
 eP 08 09 23 (d)

MAY 25
 Edmonton
 eP 08 26 24 c

MAY 25
 U.S.C.G.S.
 42.7N, 144.3E
 Near east coast
 of Hokkaido, Japan
 H = 08 41 09.6
 h = about 80 km
 Mag 5.4 (CGS)
 Banff
 eP 08 51 34
 Coppermine
 iP 08 50 33 c
 Edmonton
 eP 08 51 33 c
 London
 eP 08 53 39 (c)
 Mould Bay
 eP 08 49 59 d
 Ottawa
 iP 08 53 38 (c)
 Penticton
 iP 08 51 28 c
 Resolute
 iP 08 50 44 c
 Schefferville
 eP 08 53 07 (c)

Shawinigan Falls
 eP 08 53 37
 Victoria
 eP 08 51 21

MAY 25
 U.S.C.G.S.
 39.8N, 104.7W
 Colorado
 H = 10 44 38.1
 h = about 33 km
 Mag 3.5 (CGS)
 Edmonton
 eP 10 48 (05)

MAY 25
 U.S.C.G.S.
 11.9N, 89.6W
 Off coast of
 El Salvador
 H = 14 52 12.2
 h = about 33 km
 Mag 4.4 (CGS)
 Edmonton
 eP 15 00 28 d
 Mould Bay
 eP 15 02 59
 Resolute
 eP 15 02 (37)

MAY 25
 Canadian Arctic
 H = 15 22 54.8
 Mag 2.3
 Resolute
 P₁ 15 23 21
 i 15 23 23
 S₁ 15 23 41
 D = 164 km

MAY 25
 U.S.C.G.S.
 56.8S, 25.0W
 Sandwich Islands
 Region
 H = 16 08 00.8
 h = about 29 km
 Banff
 eP' 16 27 10
 Coppermine
 eP' 16 27 (25)
 Edmonton
 eP' 16 27 09 c
 London
 eP' 16 27 (05)
 Mould Bay
 eP' 16 27 33 (c)
 Penticton
 eP' 16 27 07
 Resolute
 eP' 16 27 (22)
 Shawinigan Falls
 eP' 16 27 13
 Yellowknife
 eP' 16 27 (18)

MAY 25
 U.S.C.G.S.
 20.7N, 120.9E
 South of Formosa
 H = 16 45 45.6
 h = about 33 km
 Mag 4.5 (CGS)
 Resolute
 eP 16 58 (02)

MAY 25
 Mould Bay
 eP 18 25 02
 Resolute
 eP 18 25 14 c

DOMINION OBSERVATORIES

Shawinigan Falls
eP 18 24 58

MAY 25
U.S.C.G.S.
31.8N, 141.3E
South of Honshu,
Japan
H = 19 57 28.5
h = about 111 km
Mag 4.5 (CGS)
Edmonton
eP 20 08 50 (d)

Mould Bay
eP 20 07 (35)

Resolute
eP 20 08 15 d

MAY 25
Mould Bay
eP 21 00 14
i 21 01 00

MAY 25
U.S.C.G.S.
37.1S, 179.5E
Near northeast
coast of North
Island, New
Zealand
H = 22 18 17.4
h = about 33 km
Mould Bay
eP' 22 37 02 (c)

MAY 26
Edmonton
eP 00 13 (06)

MAY 26
U.S.C.G.S.
6.9S, 155.6E
Solomon Islands
H = 00 42 56.1
h = about 87 km
Mag 5.0 (CGS)
Mould Bay
eP 00 56 11
Yellowknife
eP 00 56 14

MAY 26
Edmonton
eP 04 20 02 c

MAY 26
U.S.C.G.S.
53.2N, 159.8E
Near east coast
of Kamchatka
H = 04 43 09.4
h = about 33 km
Edmonton
eP 04 51 53 d

Mould Bay
eP 04 50 20

Resolute
eP 04 51 (11)

MAY 26
U.S.C.G.S.
51.5N, 159.8E
Near east coast
of Kamchatka
H = 04 52 23.4
h = about 33 km
Mag 5.3 (CGS)
Edmonton
eP 05 01 16 (c)

Mould Bay
eP 04 59 44

Resolute
eP 05 00 36

Yellowknife
eP 05 00 34

MAY 26
Alert
iP 08 50 29 c

MAY 26
Yellowknife
eP 09 38 24

MAY 26
U.S.C.G.S.
16.0S, 173.8W
Tonga Islands
H = 10 57 59.4
h = about 33 km
Edmonton
eP 11 10 38 c

MAY 26
Penticton
eP 11 22 58

MAY 26
Edmonton
eP 11 28 (01)

Penticton
eP 11 26 32

SEISMOLOGICAL BULLETIN - 1963

MAY 26
Canadian Arctic
H = 12 18 02.6
Mag 2.1
Resolute
P₁ 12 18 21
S₁ 12 18 35
D = 115 km

MAY 26
U.S.C.G.S.
16.7S, 72.2W
Southern Peru
H = 12 43 48.1
h = about 60 km
Mag 4.7 (CGS)
Coppermine
iP 12 56 41 d
Edmonton
iP 12 55 42 d
Mould Bay
eP 12 57 14
Penticton
iP 12 55 43
Schefferville
eP 12 55 03
Yellowknife
iP 12 56 21 c

MAY 26
Penticton
eP 13 51 52

MAY 26
Edmonton
eP 18 43 05

MAY 26
U.S.C.G.S.
22.5N, 144.0E
Volcano Islands
Region
H = 18 32 48.1
h = about 33 km
Mag 4.7 (CGS)
Edmonton
eP 18 44 52 d
Mould Bay
eP 18 43 38
Yellowknife
iP 18 44 29 d

MAY 26
U.S.C.G.S.
5.5S, 81.2W
Near coast of
Peru
H = 19 13 39.6
h = about 33 km
Mag 4.7 (CGS)
Edmonton
eP 19 24 13 (c)
Mould Bay
eP 19 26 09 c

MAY 26
Alert
eP 20 14 34 d

MAY 26
U.S.C.G.S.
42.3N, 48.6E
Caspian Sea
H = 21 03 49.2
h = about 33 km
Mag 5.3 (CGS)
Mould Bay
eP 21 14 04

MAY 26
Edmonton
eP 22 28 18 d

MAY 26
U.S.C.G.S.
55.2N, 159.9E
Near east coast
of Kamchatka
H = 23 06 55.0
h = about 47 km
Mag 5 1/4 - 5 1/2
(PAL)
5.3 (CGS)
Banff
eP 23 15 30
Coppermine
eP 23 14 (17)
Edmonton
eP 23 15 27 d
Halifax
eP 23 18 26
London
eP 23 17 (58)
Mould Bay
eP 23 13 45 d
i 23 15 06
S 23 19 20
Ottawa
eP 23 17 57

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DOMINION OBSERVATORIES

Penticton iP 23 15 23 d	Alert eP 04 06 25 d	MAY 27 Resolute e(P) 10 01 (44)
Resolute eP 23 14 38 d	Banff eP 04 07 21 d	
Schefferville eP 23 17 23	Coppermine iP 04 06 08	MAY 27 Edmonton eP 12 14 (24)
Shawinigan Falls eP 23 17 58	Edmonton eP 04 07 18 d	
Victoria eP 23 15 11	London eP 04 09 48 d	
Yellowknife iP 23 14 41 (d)	Mould Bay eP 04 05 36 d	MAY 27 U.S.C.G.S. 0.6S, 130.1E Halmahera Region H = 16 20 09.6 h = about 33 km Mag 5.0 (CGS) Mould Bay eP 16 33 31 Resolute eP 16 33 (59)
MAY 26 Schefferville e 23 46 (14)	Ottawa eP 04 09 48 d	
MAY 27 Edmonton e 00 58 28	Penticton iP 04 07 14 d	
	Resolute eP 04 06 29 d	
	Scarborough eP 04 09 49	
	Schefferville eP 04 09 14 d	
	Shawinigan Falls eP 04 09 49	
MAY 27 Edmonton eP 01 55 46 d	Victoria iP 04 07 03 d	MAY 27 Resolute e(P) 21 38 (34)
Mould Bay eP 01 55 50.5 d		
i 02 00 49.5		
Resolute e 02 01 (25)	MAY 27 Schefferville eP 04 38 (06)	
MAY 27 U.S.C.G.S. 55.3N, 160.1E Near east coast of Kamchatka H = 03 58 47.9 h = about 54 km Mag 5 1/4 (PAL) 5.7 (CGS)	MAY 27 U.S.C.G.S. 54.3N, 159.8E Near east coast of Kamchatka H = 07 02 27.0 h = about 33 km Mag 4.3 (CGS) Edmonton eP 07 11 04 c	MAY 28 U.S.C.G.S. 51.7N, 177.7E Andreanof Islands, Aleutian Islands H = 00 08 55.7 h = about 60 km Mould Bay eP 00 15 36 d i 00 18 12 Resolute eP 00 16 29 d

MAY 28 U.S.C.G.S. 26.2N, 125.5E Ryukyu Islands H = 01 23 10.0 h = about 33 km Mag 4.5 (CGS) Edmonton eP 01 35 48 Mould Bay eP 01 34 22 d Resolute eP 01 34 56 d	MAY 28 U.S.C.G.S. 47.5N, 152.4E Kurile Islands Region H = 21 04 10.0 h = about 120 km Mag 4.9 (CGS). Alert eP 21 12 46 Edmonton eP 21 13 38 Mould Bay eP 21 12 08 d Penticton eP 21 13 30 Resolute eP 21 12 55 c	Mould Bay eP 22 08 12 c Resolute eP 22 08 53 d
MAY 28 Edmonton eP 06 56 24 c Mould Bay eP 06 54 52	MAY 28 U.S.C.G.S. 12.5N, 142.1E Mariana Islands Region H = 21 38 49.5 h = about 33 km Mag 4.5 (CGS) Mould Bay eP 21 50 57 Resolute eP 21 51 30	MAY 29 U.S.C.G.S. 28.3N, 52.2E Western Iran H = 00 47 50.8 h = about 45 km Mag 4.8 (CGS) Alert iP 00 58 29 Coppermine iP 01 00 15 c Mould Bay iP 00 59 31 c i 01 02 22 Schefferville eP 01 00 08
MAY 28 U.S.C.G.S. 5.8N, 71.9W Central Colombia H = 08 22 21.8 h = about 33 km Mag 4.8 (CGS) Edmonton eP 08 32 13 c Mould Bay eP 08 34 04 c Schefferville eP 08 31 11 Yellowknife iP 08 32 58	MAY 28 U.S.C.G.S. 36.1N, 140.7E Near east coast of Honshu, Japan H = 21 58 27.9 h = about 78 km Mag 4.9 (CGS)	MAY 29 U.S.C.G.S. 57.4N, 154.0W Kodiak Island, Alaska H = 04 50 17.5 h = about 55 km Mag 4.8 (CGS) Coppermine eP 04 54 49 Edmonton eP 04 55 22 Mould Bay eP 04 55 15 i 04 55 28 Penticton eP 04 55 07 Resolute eP 04 56 02
MAY 28 Edmonton eP 11 42 (14)		

DOMINION OBSERVATORIES

Yellowknife
iP 04 54 47 c

MAY 29
Alert
eP 06 00 05
Edmonton
eP 05 59 46 c
Mould Bay
eP 06 00 10
i 06 00 17
Resolute
eP 05 59 59 c

MAY 29
U.S.C.G.S.
17.7S, 178.8W
Fiji Islands
H = 08 27 44.5
h = about 512 km
Mag 4.5 (CGS)
Edmonton
eP 08 39 49 c
Mould Bay
eP 08 40 33.5

MAY 29
U.S.C.G.S.
27.2N, 59.3E
Southern Iran
H = 08 35 02.9
h = about 33 km
Mag 5.4 (CGS)
Alert
iP 08 45 55
Coppermine
eP 08 47 36
Edmonton
eP 08 48 46 (d)

Mould Bay
eP 08 46 52 c
Resolute
eP 08 46 53 c
Schefferville
eP 08 47 (43)
i 08 47 59
Yellowknife
iP 08 48 03

MAY 29
U.S.C.G.S.
18.0S, 178.0W
Fiji Islands
H = 10 59 10.5
h = about 550 km
Mag 4.8 (CGS)
Edmonton
eP 11 11 11
Penticton
eP 11 10 46

MAY 29
75°05'N ± 12',
93°40' W ± 50'
About 28 miles
northeast of
Resolute, N.W.T.
H = 17 09 37.7
Mag 3.1
Alert
P_n 17 11 51
S_n 17 13 33
D = 1050 km
Mould Bay
P_n 17 11 10
S_n 17 12 23
L_g 17 12 59
D = 715 km

Resolute
P₁ 17 09 45
S₁ 17 09 50.5
D = 44.8 km

MAY 29
U.S.C.G.S.
22.6S, 114.4W
Easter Island
Region
H = 18 27 19.1
h = about 33 km
Mag 4.7 (CGS)
Edmonton
eP 18 39 (01)

MAY 29
U.S.C.G.S.
14.7N, 92.1W
Mexico-Guatemala
Border Region
H = 22 41 34
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 22 51 58
i 22 52 35
Penticton
eP 22 49 08

MAY 30
Edmonton
eP 00 47 34
Penticton
eP 00 46 44

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MAY 30
U.S.C.G.S.
6.4N, 72.9W
Colombia
H = 01 56 41.3
h = about 132 km
Mag 3.9 (CGS)
Mould Bay
eP 02 08 05

MAY 30
U.S.C.G.S.
49.9N, 157.3E
Kurile Islands
Region
H = 03 44 50.7
h = about 50 km
Mag 4.8 (CGS)
Edmonton
eP 03 53 58 (c)
Mould Bay
eP 03 52 28.5 d
Resolute
eP 03 53 20

MAY 30
Mould Bay
eP 04 27 19 (c)

MAY 30
U.S.C.G.S.
41.9N, 133.8E
Sea of Japan
H = 05 10 05
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 05 19 24.5

MAY 30
U.S.C.G.S.
54.2S, 143.7E
South of
Australia
H = 06 56 09.3
h = about 33 km
Mag 5 1/4 - 5.1/2
(PAL)

Alert
eP' 07 15 58
Coppermine
eP' 07 15 (37)
Edmonton
eP' 07 15 (23)
London
iP' 07 15 53 c
Mould Bay
eP' 07 15 34
Ottawa
eP' 07 16 07
Resolute
eP' 07 15 52 (d)

MAY 30
U.S.C.G.S.
23.9N, 46.1W
North Atlantic
Ocean
H = 11 33 01.1
h = about 33 km
Edmonton
eP 11 42 50 (d)
Mould Bay
eP 11 43 26

MAY 30
Resolute
e(P) 13 25 (37)

MAY 30
U.S.C.G.S.
52.4N, 169.5W
Fox Islands,
Aleutian Islands
H = 17 39 43
h = about 80 km
Mould Bay
eP 17 45 52

MAY 30
U.S.C.G.S.
59.4S, 26.9W
Sandwich Islands
H = 18 57 53.2
h = about 33 km
Coppermine
eP' 19 17 (18)
Edmonton
eP' 19 17 03 c

MAY 30
Mould Bay
eP 19 45 27

MAY 31
Mould Bay
eP 03 19 50
Resolute
eP 03 20 (07)

MAY 31
U.S.C.G.S.
16.5S, 69.3W
Southern Peru
H = 04 39 34.5
h = about 136 km
Edmonton
eP 04 51 23 d

DOMINION OBSERVATORIES

MAY 31 U.S.C.G.S. 55.2N, 160.0E Near east coast of Kamchatka H = 05 29 30.4 h = about 61 km Mag 4.5 (CGS) Edmonton eP 05 38 02 c Mould Bay eP 05 36 19 i 05 38 50 Resolute eP 05 37 13 (c)	MAY 31 U.S.C.G.S. 61.5N, 140.6W Southwestern Yukon H = 11 09 02.7 h = about 33 km Mag 3.8 (CGS) Mould Bay eP 11 12 51.5 i 11 15 49.5 Resolute eP 11 13 (47)	MAY 31 Mould Bay eP 15 46 40
MAY 31 U.S.C.G.S. 15.1S, 173.3W Tonga Islands Region H = 06 03 34.9 h = about 33 km Mag 4.8 (CGS) Coppermine eP 06 16 46 Edmonton eP 06 16 10 d Penticton eP 06 15 18 Yellowknife eP 06 16 (34)	MAY 31 U.S.C.G.S. 44.9N, 111.4W Southwestern Montana H = 11 37 56.2 h = about 33 km Edmonton e 11 40 30	MAY 31 U.S.C.G.S. 11.2N, 91.2W Off coast of El Salvador H = 21 53 46 h = about 33 km Mag 4.0 (CGS) Mould Bay eP 22 04 40.5
MAY 31 Mould Bay eP 08 29 03	MAY 31 U.S.C.G.S. 30.6S, 178.1W Kermadec Islands H = 14 08 03.1 h = about 60 km Mould Bay eP' 14 26 31 Resolute eP' 14 26 (41)	MAY 31 U.S.C.G.S. 15.1S, 173.4W Samoa Islands Region H = 23 58 49.7 h = about 33 km Mag 5.4 (CGS) Coppermine eP 24 12 01 Edmonton eP 24 11 24 d Mould Bay eP 24 12 17

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Penticton eP 24 10 57 Victoria eP 24 10 41	Yellowknife iP 11 02 05 c	Yellowknife P _n 13 57 51 i 13 58 25 S _n 13 59 18 L _g 14 00 08 D = 890 km
JUNE 1 U.S.C.G.S. 46.7N, 152.4E Kurile Islands H = 02 07 38.2 h = about 33 km Edmonton eP 02 17 20 c Mould Bay eP 02 15 53 Resolute eP 02 16 (39)	JUNE 1 U.S.C.G.S. 15.0S, 172.4W Tonga Islands H = 12 30 55.8 h = about 33 km Edmonton eP 12 43 28 c Mould Bay eP 12 44 23 Penticton eP 12 42 59 Yellowknife eP 12 43 51 (c)	JUNE 1 Resolute eP 14 07 (25)
JUNE 1 U.S.C.G.S. 36.4N, 71.5E Hindu Kush H = 10 49 54.8 h = about 70 km Mag 5.3 (CGS) Alert eP 10 59 51 c Coppermine iP 11 01 34 c Edmonton eP 11 02 50 c Mould Bay eP 11 00 44 c i 11 01 13 Penticton iP 11 03 07 d Resolute eP 11 00 53 c Schefferville eP 11 02 10	JUNE 1 54.5°N ± 30', 117.8°W ± 30' About 110 miles south of Peace River, Alta. H = 13 55 55.6 Mag 4.1 Coppermine e 13 59 22 S _n 14 01 24 L _g 14 02 52 D = 1475 km Edmonton P _n 13 56 37.8 i 13 56 59.3 S _n 13 57 06.9 D = 300 km Penticton e 13 57 19 P ₁ 13 57 28.5 S _n 13 58 09 L _g 13 58 37 D = 570 km	JUNE 1 U.S.C.G.S. 14.9N, 119.7E Off west coast of Luzon, Philippine Islands H = 20 08 34.4 h = about 33 km Mag 4.8 (CGS) Mould Bay eP 20 20 54 Resolute eP 20 21 22 c
		JUNE 1 U.S.C.G.S. 39.0N, 15.0E Mediterranean Sea H = 20 36 09.5 h = about 285 km Mag 4.4 (CGS) Edmonton eP 20 47 37 d

DOMINION OBSERVATORIES

Mould Bay
eP 20 45 58 d
Resolute
eP 20 45 32 d

JUNE 1
U.S.C.G.S.
15.2S, 173.5W
Samoa Islands
Region
H = 21 13 52.7
h = about 33 km
Mag 5.5 (CGS)
Coppermine
eP 21 27 03
Edmonton
eP 21 26 27 (d)
Mould Bay
eP 21 27 21
Penticton
iP 21 26 00 c
Resolute
eP 21 27 (42)
Victoria
eP 21 25 45

JUNE 1
U.S.C.G.S.
28.3N, 139.1E
South of Honshu,
Japan
H = 22 17 54.3
h = about 524 km
Mag 4.4 (CGS)
Mould Bay
iP 22 27 46 c
i 22 30 56
Resolute
eP 22 28 23 d

JUNE 2
U.S.C.G.S.
17.7N, 94.2W
Vera Cruz,
Mexico
H = 01 16 31
h = about 164 km
Mag 4.3 (CGS)
Edmonton
eP 01 23 (37)
Mould Bay
eP 01 26 21 d
i 01 26 58.5
Resolute
eP 01 26 (00)
Yellowknife
eP 01 24 46

JUNE 2
H = 03 09 35
Mag 1.5
Penticton
eP₁ 03 09 54.6
eS₁ 03 10 09.7
D = 124 km

JUNE 2
U.S.C.G.S.
27.8N, 95.6E
Assam, India
H = 07 07 57.9
h = about 143 km
Mag 4.9 (CGS)
Mould Bay
eP 07 19 23

JUNE 2
Mould Bay
eP 09 24 37

JUNE 2
U.S.C.G.S.
6.1S, 154.4E
Solomon Islands
H = 10 00 00.1
h = about 49 km
Mag 5 1/2 - 5 3/4
(PAL)
5.8 (CGS)
Edmonton
eP 10 13 23
Mould Bay
eP 10 13 17
Penticton
eP 10 12 56
Yellowknife
eP 10 13 24

JUNE 2
Mould Bay
eP 10 32 11

JUNE 2
Mould Bay
eP 13 11 21
i 13 14 28

JUNE 2
Canadian Arctic
H = 16 10 30.6
Mag 2.8
Resolute
P₁ 16 10 49
S₁ 16 11 03
D = 115 km

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JUNE 2
U.S.C.G.S.
53.8N, 163.7W
Alaska Peninsula
Region
H = 17 58 08.7
h = about 36 km
Mag 4.1 (CGS)
Coppermine
iP 18 03 47
Mould Bay
eP 18 03 59 c
i 18 07 12
Penticton
eP 18 03 57
Resolute
eP 18 04 48
Schefferville
eP 18 07 17
Yellowknife
eP 18 03 46

JUNE 2
U.S.C.G.S.
58.5S, 15.6W
Sandwich Islands
Region
H = 21 04 24.2
h = about 50 km
Mag 6 - 6 1/4
(PAL)
5.9 (CGS)
Coppermine
iP' 21 23 54 c
Edmonton
eP' 21 23 29
London
eP' 21 23 (07)
Mould Bay
eP' 21 23 58
Ottawa
e 21 23 56

Penticton
eP' 21 23 22
Resolute
eP' 21 23 46 d
Scarborough
e 21 23 57
Schefferville
eP' 21 23 11
Yellowknife
eP' 21 23 49

JUNE 2
Edmonton
eP 21 51 01 c
Mould Bay
eP 21 50 24
i 21 53 09.5

JUNE 2
U.S.C.G.S.
13.8N, 90.8W
Near coast of
Guatemala
H = 22 22 00.0
h = about 21 km
Mag 5.1 (CGS)
Alert
eP 22 33 01 (c)
Banff
eP 22 29 48
Coppermine
iP 22 31 34 c
Edmonton
eP 22 29 55 c
Mould Bay
eP 22 32 28 c
Ottawa
eP 22 28 38
Penticton
eP 22 29 51

Resolute
eP 22 32 06 (d)
Scarborough
eP 22 28 16
Schefferville
eP 22 30 10 c
Sept Iles
eP 22 29 (39)
Victoria
eP 22 30 01
Yellowknife
eP 22 30 59

JUNE 2
U.S.C.G.S.
8.2N, 74.8W
Colombia
H = 22 26 20.3
h = about 37 km
Mag 4.8 (CGS)
Edmonton
eP 22 35 45 d
Mould Bay
eP 22 37 42 d

JUNE 2
Mould Bay
iP 23 07 57 (c)

JUNE 3
Mould Bay
iP 04 54 04

DOMINION OBSERVATORIES

<p>JUNE 3 U.S.C.G.S. 46.8N, 152.9E Kurile Islands H = 05 47 17 h = about 80 km Mag 4.4 (CGS) Mould Bay eP 05 55 21.5</p>	<p>Edmonton eP 07 47 20 d Mould Bay eP 07 45 56.5 d Penticton eP 07 47 13 Resolute eP 07 46 36 (d) Schefferville eP 07 48 44 Victoria eP 07 47 03 Yellowknife eP 07 46 46 (d)</p>	<p>Coppermine eP 11 42 50 Edmonton eP 11 41 40 c Halifax eP 11 38 37 London eP 11 39 16 Mould Bay iP 11 43 32 c Ottawa eP 11 39 26 Penticton eP 11 41 47 Resolute eP 11 43 02 Schefferville eP 11 40 41 Sept Iles eP 11 40 (05) Shawinigan Falls eP 11 39 37 (c) Victoria eP 11 41 55 Yellowknife iP 11 42 26</p>
<p>JUNE 3 U.S.C.G.S. 40.0N, 143.1E Off east coast of Honshu, Japan H = 07 20 07.7 h = about 26 km Mag 4.5 (CGS) Edmonton eP 07 30 54 d Mould Bay eP 07 29 26.5 c Resolute eP 07 30 09 (c) Yellowknife eP 07 30 (12)</p>	<p>JUNE 3 Mould Bay eP 09 46 15</p>	<p>JUNE 3 U.S.C.G.S. 39.9N, 144.9E East of Honshu, Japan H = 09 44 36 h = about 33 km Mag 4.1 (CGS) Resolute eP 09 54 31 (c)</p>
<p>JUNE 3 U.S.C.G.S. 34.2N, 138.7E Honshu, Japan H = 07 35 54.3 h = about 43 km Mag 5.3 (CGS) Alert eP 07 46 19 d Banff eP 07 47 21 Coppermine iP 07 46 27 d</p>	<p>JUNE 3 U.S.C.G.S. 5.3N, 72.9W Colombia H = 11 31 48.7 h = about 21 km Mag 5 (PAL) 5.0 (CGS) Alert eP 11 43 43 c</p>	<p>JUNE 3 U.S.C.G.S. 2.8N, 72.7W Colombia H = 12 18 26 h = about 33 km Mould Bay eP 12 30 21 d</p>

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<p>JUNE 3 U.S.C.G.S. 39.2N, 70.6E Tadzhik S.S.R. H = 12 34 42.1 h = about 33 km Mag 4.7 (CGS) Edmonton eP 12 47 30 Mould Bay eP 12 45 18</p>	<p>JUNE 4 Mould Bay eP 04 02 01 d</p>	<p>JUNE 4 U.S.C.G.S. 8.1N, 126.8E Off east coast of Mindanao, P.I. H = 11 44 12.0 h = about 161 km Mag 5.0 (CGS) Mould Bay eP 11 56 43 c Resolute eP 11 57 (11)</p>
<p>JUNE 3 Mould Bay eP 19 55 20.5 (c) Resolute eP 19 54 50 (c) Yellowknife eP 19 53 36</p>	<p>JUNE 4 49°09'N, 120°29'W South of Copper Mountain H = 05 27 10 Mag 2.1 Penticton iP₁ 05 27 22.0 iS₁ 05 27 31.2 D = 64 km Victoria iP₁ 05 27 44.2 iS₁ 05 28 10.7 D = 228 km</p>	<p>JUNE 4 U.S.C.G.S. 30.5S, 177.8W Kermadec Islands H = 11 54 09.1 h = about 33 km Mag 5.1 (CGS) Mould Bay eP' 12 12 (39) i 12 12 41 Resolute eP' 12 12 49 (d) Schefferville eP' 12 13 06</p>
<p>JUNE 3 Yellowknife e(P) 20 36 40</p>	<p>JUNE 4 Mould Bay eP 10 00 (12) Resolute e(P) 10 01 (29) Yellowknife eP 10 01 13</p>	<p>JUNE 4 U.S.C.G.S. 30.4S, 177.6W Kermadec Islands H = 13 05 56.3 h = about 33 km Mag 5.2 (CGS) Resolute eP' 13 24 36 (d)</p>
<p>JUNE 3 U.S.C.G.S. 59.5S, 27.7W Sandwich Islands H = 21 30 13.3 h = about 45 km Mag 5.6 (CGS) Coppermine eP' 21 49 (38) Mould Bay eP' 21 49 (44)</p>	<p>JUNE 4 Mould Bay eP 10 19 55.5 d</p>	<p>JUNE 4 U.S.C.G.S. 30.4S, 177.6W Kermadec Islands H = 13 05 56.3 h = about 33 km Mag 5.2 (CGS) Resolute eP' 13 24 36 (d)</p>
<p>JUNE 4 Mould Bay eP 02 28 01</p>		

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DOMINION OBSERVATORIES

<p>JUNE 4</p> <p>Mould Bay</p> <p>eP 14 28 (05)</p> <p>i 14 30 (53)</p> <p>Resolute</p> <p>eP 14 28 (29)</p> <p>Yellowknife</p> <p>eP 14 28 (40)</p> <p>JUNE 4</p> <p>U.S.C.G.S.</p> <p>38.1N, 121.0E</p> <p>Yellow Sea</p> <p>Region</p> <p>H = 16 04 10</p> <p>h = about 33 km</p> <p>Mould Bay</p> <p>eP 16 14 13</p> <p>Resolute</p> <p>eP 16 14 48 (c)</p> <p>JUNE 4</p> <p>U.S.C.G.S.</p> <p>18.9N, 146.2E</p> <p>Mariana Islands</p> <p>H = 19 21 56.6</p> <p>h = about 110 km</p> <p>Mag 5.5 (CGS)</p> <p>Alert</p> <p>iP 19 33 45 d</p> <p>Coppermine</p> <p>iP 19 33 32 d</p> <p>Mould Bay</p> <p>iP 19 33 15 d</p> <p>Penticton</p> <p>iP 19 33 48 d</p> <p>Resolute</p> <p>iP 19 33 51 c</p> <p>Yellowknife</p> <p>iP 19 33 42 d</p>	<p>JUNE 4</p> <p>U.S.C.G.S.</p> <p>19.2N, 97.0W</p> <p>Vera Cruz,</p> <p>Mexico</p> <p>H = 20 29 02.5</p> <p>h = about 152 km</p> <p>Mag 4.2 (CGS)</p> <p>Mould Bay</p> <p>eP 20 38 41</p> <p>JUNE 4</p> <p>U.S.C.G.S.</p> <p>1.2S, 127.3E</p> <p>Halmahera</p> <p>Region</p> <p>H = 21 04 42.3</p> <p>h = about 31 km</p> <p>Mag 5.2 (CGS)</p> <p>London</p> <p>eP' 21 23 54 d</p> <p>Mould Bay</p> <p>eP 21 18 10</p> <p>Resolute</p> <p>eP 21 18 (36)</p> <p>Schefferville</p> <p>eP' 21 23 43</p> <p>Seven Falls</p> <p>eP' 21 23 (52)</p> <p>e 21 27 15</p> <p>Yellowknife</p> <p>eP 21 18 43</p> <p>JUNE 4</p> <p>Penticton</p> <p>eP 21 45 40</p>	<p>JUNE 4</p> <p>U.S.C.G.S.</p> <p>39.0N, 20.6E</p> <p>Greece</p> <p>H = 22 11 31.8</p> <p>h = about 33 km</p> <p>Mag 4.7 (CGS)</p> <p>Mould Bay</p> <p>eP 22 21 52 c</p> <p>Ottawa</p> <p>eP 22 22 27</p> <p>Resolute</p> <p>eP 22 21 (30)</p> <p>Schefferville</p> <p>eP 22 21 22</p> <p>JUNE 4</p> <p>Mould Bay</p> <p>eP 23 52 (21)</p> <p>Resolute</p> <p>eP 23 52 (04)</p> <p>Yellowknife</p> <p>eP 23 52 19</p> <p>JUNE 4</p> <p>U.S.C.G.S.</p> <p>33.1S, 76.7E</p> <p>Indian Ocean</p> <p>H = 23 55 30.7</p> <p>h = about 33 km</p> <p>Schefferville</p> <p>eP' 24 14 52</p> <p>Yellowknife</p> <p>eP' 24 14 (56)</p> <p>JUNE 5</p> <p>Yellowknife</p> <p>eP 00 46 30</p>
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<p>JUNE 5</p> <p>66.5°N ± 18',</p> <p>110.0°W ± 1.0°</p> <p>About 60 miles</p> <p>west of Bathurst</p> <p>Inlet, N.W.T.</p> <p>or</p> <p>66.5°N ± 18'</p> <p>120.0°W ± 1.0°</p> <p>On the north</p> <p>shore of Great</p> <p>Bear Lake,</p> <p>N.W.T.</p> <p>H = 01 31 37</p> <p>h = about 28 km</p> <p>Mag 3.1</p> <p>Coppermine</p> <p>P_n 01 32 20</p> <p>P₁ 01 32 28</p> <p>S_n 01 32 55</p> <p>S₁ 01 33 07.5</p> <p>D = 325 km</p> <p>Yellowknife</p> <p>P_n 01 33 01</p> <p>S_n 01 34 03</p> <p>L_g 01 34 34</p> <p>D = 625 km</p> <p>JUNE 5</p> <p>H = 04 45 12</p> <p>Mag 2.2</p> <p>Penticton</p> <p>eP_n 04 45 48</p> <p>D = 240 km</p> <p>Victoria</p> <p>iP₁ 04 45 24.6</p> <p>iS₁ 04 45 34.2</p> <p>D = 78 km</p>	<p>JUNE 5</p> <p>U.S.C.G.S.</p> <p>34.6S, 81.5E</p> <p>Indian Ocean</p> <p>H = 05 32 09.2</p> <p>h = about 33 km</p> <p>Coppermine</p> <p>eP' 05 51 34</p> <p>Yellowknife</p> <p>eP' 05 51 47</p> <p>JUNE 5</p> <p>U.S.C.G.S.</p> <p>31.2N, 142.6E</p> <p>Southeast of</p> <p>Honshu, Japan</p> <p>H = 09 11 49.9</p> <p>h = about 33 km</p> <p>Mag 4.8 (CGS)</p> <p>Alert</p> <p>eP 09 22 34 d</p> <p>Coppermine</p> <p>eP 09 22 33</p> <p>Mould Bay</p> <p>eP 09 22 07 d</p> <p>Penticton</p> <p>iP 09 23 10 c</p> <p>Resolute</p> <p>eP 09 22 46 (d)</p> <p>Yellowknife</p> <p>iP 09 22 49 d</p> <p>JUNE 5</p> <p>U.S.C.G.S.</p> <p>14.9S, 166.8E</p> <p>New Hebrides</p> <p>Islands</p> <p>H = 10 12 09.0</p> <p>h = about 37 km</p> <p>Mag 5.0 (CGS)</p>	<p>Mould Bay</p> <p>eP 10 25 55</p> <p>Penticton</p> <p>iP 10 25 09</p> <p>Resolute</p> <p>eP' 10 30 (29)</p> <p>Yellowknife</p> <p>iP 10 25 40 c</p> <p>JUNE 5</p> <p>U.S.C.G.S.</p> <p>3.6S, 149.6E</p> <p>Bismark Sea</p> <p>H = 11 20 07.3</p> <p>h = about 33 km</p> <p>Mag 5.1 (CGS)</p> <p>Yellowknife</p> <p>eP 11 33 33</p> <p>JUNE 5</p> <p>H = 15 53 09</p> <p>Mag 2.3</p> <p>Penticton</p> <p>eP₁ 15 53 41.4</p> <p>eS₁ 15 54 07.6</p> <p>D = 214 km</p> <p>JUNE 6</p> <p>Yellowknife</p> <p>eP 00 40 58</p> <p>JUNE 6</p> <p>U.S.C.G.S.</p> <p>19.9N, 120.2E</p> <p>Off north coast</p> <p>of Luzon, P.I.</p> <p>H = 05 18 55.1</p> <p>h = about 33 km</p> <p>Mag 5.8 (CGS)</p>
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DOMINION OBSERVATORIES

Banff eP 05 32 12	JUNE 6 U.S.C.G.S. 6.7N, 94.7E	JUNE 7 Edmonton eP 08 09 30 c
Coppermine eP 05 31 20	Nicobar Islands Region H = 08 21 12.2 h = about 33 km Mag 5.5 (CGS)	JUNE 7 U.S.C.G.S. 19.0N, 121.8E
Edmonton eP 05 32 10 d	Mould Bay iP 08 34 32 (c)	Off north coast of Luzon, P.I. H = 15 49 57.4 h = about 33 km Mag 4.7 (CGS)
Mould Bay eP 05 30 49	Resolute eP 08 34 49 (c)	Coppermine eP 16 02 25 d
Penticton eP 05 32 06	JUNE 6 Mould Bay eP 09 44 03	Edmonton eP 16 03 (15)
Resolute eP 05 31 17 d	JUNE 6 U.S.C.G.S. 37.8S, 77.9E	Mould Bay eP 16 01 54 d
Schefferville eP 05 36 (45)	1500 km north- east of Kerguelen Islands H = 12 04 14.3 h = about 33 km Mag 5.3 (CGS)	Resolute eP 16 02 23
Victoria iP 05 31 59	Coppermine eP' 12 23 59	Yellowknife iP 16 02 44
Yellowknife iP 05 31 39	Edmonton eP' 12 24 04	JUNE 7 U.S.C.G.S. 8.5N, 103.1W
JUNE 6 U.S.C.G.S. 20.1N, 120.4E	Schefferville eP' 12 24 05	Clipperton Island Region H = 19 30 35.6 h = about 33 km Mag 4.9 (CGS)
Off north coast of Luzon, P.I. H = 06 07 22.2 h = about 33 km Mag 4.7 (CGS)	Yellowknife eP' 12 24 10	5 1/2 - 5 3/4 (BSK)
Edmonton eP 06 20 37 d	JUNE 6 Mould Bay eP 12 43 30	5 1/4 - 5 1/2 (PAL)
Mould Bay eP 06 19 15		Coppermine eP 19 40 40
Resolute eP 06 19 45 d		Edmonton iP 19 38 54 d
Yellowknife iP 06 20 06		Mould Bay eP 19 41 33

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Ottawa eP 19 38 (37)	JUNE 7 U.S.C.G.S. 15.2S, 173.1W	Edmonton eP 00 31 28 d
Penticton eP 19 38 32	Samoa Islands Region H = 22 31 54.8 h = about 33 km Mag 4.6 (CGS)	Mould Bay eP 00 31 11
Resolute eP 19 41 21	Edmonton eP 22 44 29 (c)	Resolute eP 00 32 02
Schefferville eP 19 40 02	Mould Bay eP 22 45 21	Yellowknife iP 00 30 44 d
Sept Iles eP 19 39 39	Penticton eP 22 44 01	JUNE 8 U.S.C.G.S. 15.1S, 173.0W
Victoria eP 19 38 38	Yellowknife eP 22 44 52	Samoa Islands Region H = 01 01 51.9 h = about 33 km Mag 4.6 (CGS)
Yellowknife iP 19 40 03	JUNE 7 U.S.C.G.S. 15.3S, 173.2W	Edmonton eP 01 14 25
JUNE 7 Yellowknife eP 20 42 21	Samoa Islands Region H = 22 37 30.0 h = about 33 km Mag 5.0 (CGS)	Penticton eP 01 13 58
JUNE 7 U.S.C.G.S. 8.8N, 102.5W	Coppermine eP 22 50 41	Yellowknife eP 01 14 49
Clipperton Island Region H = 21 28 48.5 h = about 33 km Mag 4.6 (CGS)	Edmonton eP 22 50 02	JUNE 8 Mould Bay eP 01 30 11
Edmonton eP 21 37 02 c	Mould Bay eP 22 50 (56)	JUNE 8 U.S.C.G.S. 5.5S, 147.0E
Mould Bay eP 21 39 45.5	Penticton eP 22 49 21	Near north coast of New Guinea H = 05 34 06.8 h = about 170 km Mag 5.1 (CGS)
Penticton eP 21 36 31	Victoria eP 22 49 27	Mould Bay eP 05 47 14
Resolute eP 21 39 31	Yellowknife eP 22 50 28	Penticton iP 05 47 18 d
Schefferville eP 21 38 12	JUNE 8 Coppermine eP 00 30 (45)	
Yellowknife eP 21 38 11		

DOMINION OBSERVATORIES

Yellowknife
eP 05 47 28

JUNE 8
Mould Bay
eP 07 39 25 c
Resolute
eP 07 40 (14)
Yellowknife
eP 07 39 15

JUNE 8
U.S.C.G.S.
2.4S, 77.6W
Peru-Ecuador
Border
H = 08 57 24.7
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 09 09 42

JUNE 8
U.S.C.G.S.
6.9N, 73.0W
Peru-Brazil
Border
H = 12 46 04.9
h = about 148 km
Mag 4.7 (CGS)
Edmonton
iP 12 55 33 d
Mould Bay
eP 12 57 24 d
Penticton
iP 12 55 41
Schefferville
eP 12 54 31 d
Yellowknife
iP 12 56 18 d

JUNE 8
U.S.C.G.S.
60.4N, 153.6W
Southern Alaska
H = 13 34 23.1
h = about 176 km
Mag 3.9 (CGS)
Coppermine
iP 13 38 23 d
Edmonton
iP 13 39 13 d
Mould Bay
eP 13 38 41 d
i 13 38 45
(i) 13 42 20
i 13 46 10
Resolute
eP 13 39 (34)
Yellowknife
iP 13 38 28

JUNE 9
Mould Bay
iP 04 01 01

JUNE 9
Alert
P 05 34 07

JUNE 9
Mould Bay
eP 06 24 26 d

JUNE 9
U.S.C.G.S.
51.0N, 178.8E
Rat Islands
Region,
Aleutian Islands
H = 07 09 28.8
h = about 70 km
Mag 4.5 (CGS)
Edmonton
eP 07 16 59 c
Mould Bay
eP 07 16 12 c
Penticton
eP 07 16 45
Resolute
eP 07 17 03 d
Yellowknife
iP 07 16 29

JUNE 9
U.S.C.G.S.
12.2S, 166.9E
Santa Cruz
Islands Region
H = 07 42 20.3
h = about 233 km
Mag 4.3 (CGS)
Mould Bay
eP 07 54 13
i 07 56 48.5

JUNE 9
Edmonton
eP 09 18 (24)
Mould Bay
eP 09 17 07
Yellowknife
eP 09 17 37

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JUNE 9
Alert
P 10 55 13

JUNE 9
U.S.C.G.S.
15.3S, 172.9W
Samoa Islands
Region
H = 15 50 31.8
h = about 33 km
Mag 4.5 (CGS)
Edmonton
eP 16 03 05

JUNE 9
Mould Bay
eP 17 31 19

JUNE 9
U.S.C.G.S.
10.7N, 41.9W
Mid-Atlantic
Ocean
H = 20 37 51.6
h = about 33 km
Mag 5.0 (CGS)
Banff
eP 20 49 14
Coppermine
eP 20 49 23
Mould Bay
eP 20 49 41
Ottawa
eP 20 46 06
Penticton
eP 20 49 24
Resolute
eP 20 49 (07)

Schefferville
eP 20 46 29
Seven Falls
eP 20 45 (54)
Yellowknife
eP 20 49 15

JUNE 9
Edmonton
eP 23 51 19 (c)

JUNE 10
Mould Bay
iP 04 24 31 (c)

JUNE 10
U.S.C.G.S.
55.4S, 146.4E
800 km west of
Macquarie Islands
H = 04 16 37.7
h = about 33 km
Mag 6 1/4 (PAS)
5 3/4 - 6
(PAL)
6.1 (CGS)
Coppermine
eP' 04 36 02
Edmonton
eP' 04 35 (44)
London
iP' 04 36 15 c
Mould Bay
eP' 04 36 06 d
Ottawa
eP' 04 36 21
Penticton
eP' 04 35 (44)
Resolute
eP' 04 36 18

Scarborough
eP' 04 36 22
Schefferville
eP' 04 36 (38)
Seven Falls
eP' 04 36 28
Yellowknife
eP' 04 35 56

JUNE 10
U.S.C.G.S.
55.2S, 146.3E
800 km west of
Macquarie Islands
H = 05 14 15.6
h = about 33 km
Edmonton
eP' 05 33 (22)
Mould Bay
eP' 05 33 43 (c)
Ottawa
eP' 05 34 05
Resolute
eP' 05 34 00
Yellowknife
eP' 05 33 34

JUNE 10
U.S.C.G.S.
55.3S, 146.1E
800 km west of
Macquarie Islands
H = 06 39 04.0
h = about 18 km
Mag 6 1/4 - 6 1/2
(PAS)
6 1/4 - 6 1/2
(PAL)
6.0 (CGS)
Coppermine
eP' 06 58 29

DOMINION OBSERVATORIES

Edmonton eP' 06 58 (16)	Resolute eP 08 01 58	Banff eP 12 33 00
Halifax iP' 06 59 00	Yellowknife eP 08 01 19	Edmonton eP 12 33 08 c
London iP' 06 58 43	i 08 03 50	Mould Bay eP 12 32 55
Mould Bay eP' 06 58 34 c		Penticton eP 12 32 49
Ottawa eP' 06 58 49	JUNE 10 U.S.C.G.S. 50.9N, 160.2E	
Penticton eP' 06 58 11	Off coast of Kamchatka H = 10 46 58.1 h = about 33 km Mag 5.3 (CGS)	JUNE 10 Off coast of 48.0°N, 122.8°W H = 16 19 52 Puget Sound, USA Mag 2.8
Resolute eP' 06 58 45 d	Banff eP 10 55 52	Alberni eP _n 16 20 23.5 D = 205 km
Scarboro eP' 06 58 45	Coppermine iP 10 54 50 d	Penticton eP _n 16 20 33 D = 283 km
Schefferville eP' 06 59 02	Edmonton iP 10 55 52 d	Port Hardy eP _n 16 20 51.8 D = 437 km
Seven Falls eP' 06 58 55	Mould Bay eP 10 54 24 d	Victoria iP ₁ 16 20 05.0 iS ₁ 16 20 15.1 D = 83 km
Victoria eP' 06 58 08	Penticton iP 10 55 44 d	
Yellowknife iP' 06 58 23 c	Resolute eP 10 55 15 d	
JUNE 10 U.S.C.G.S. 51.5N, 178.5W	Schefferville eP 10 57 53 d	
Andreanof Islands Region, Aleutian Islands H = 07 54 28.2 h = about 33 km Mag 4.7 (CGS)	Victoria eP 10 55 31	JUNE 10 Mould Bay eP 19 01 30 i 19 02 16
Edmonton eP 08 01 49 c	Yellowknife iP 10 55 11	
Mould Bay iP 08 01 06 c	JUNE 10 U.S.C.G.S. 4.6S, 152.0E	JUNE 10 Yellowknife iP 20 50 06
i 08 03 45	New Britain H = 12 19 56.1 h = about 174 km Mag 5.2 (CGS)	
Penticton iP 08 01 34		

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JUNE 10 U.S.C.G.S. 4.5S, 152.8E	Coppermine eP 03 37 22	Alert P 13 14 21
New Britain H = 23 58 44.3 h = about 69 km Mag 5.2 (CGS)	Edmonton eP 03 38 39 c	Banff eP 13 13 30
Coppermine eP 24 12 00	Mould Bay eP 03 36 30	Coppermine eP 13 12 06
Edmonton eP 24 12 05 c	Penticton iP 03 38.56 d	i 13 16 52
Mould Bay eP 24 11 54 (c)	Resolute eP 03 36 38	Edmonton iP 13 13 25 c
Ottawa eP' 24 17 31	Yellowknife iP 03 37 59	Mould Bay eP 13 12 25 S 13 15 (35)
Penticton eP 24 11 46	JUNE 11 U.S.C.G.S. 59.8N, 153.0W	Penticton iP 13 13 26 c
Seven Falls eP' 24 17 34	Cook Inlet, Alaska H = 04 15 49.4 h = about 50 km Mag 4.7 (CGS)	Resolute eP 13 13 26 (d)
JUNE 11 Penticton eP 00 00 20	Coppermine eP 04 20 00	Seven Falls eP 13 16 47
JUNE 11 Coppermine eP 03 32 57	Edmonton eP 04 20 47 d	Victoria eP 13 13 17
JUNE 11 U.S.C.G.S. 37.1N, 70.3E	Mould Bay eP 04 20 21	Yellowknife iP 13 12 14
Hindu Kush H = 03 25 40.7 h = about 38 km Mag 4.3 (CGS)	Penticton eP 04 20 35	
Alert eP 03 35 35	Resolute eP 04 21 13	JUNE 11 Edmonton iP 13 23 52 d
Banff eP 03 38 50	Yellowknife iP 04 20 04	Penticton iP 13 23 54
	JUNE 11 U.S.C.G.S. 63.1N, 151.4W	
	Central Alaska H = 13 08 31.4 h = about 31 km	JUNE 11 U.S.C.G.S. 31.8N, 116.2W
		Baja California H = 15 23 42.3 h = about 33 km Mag 5 (PAS) 5.2 (CGS)
		Edmonton eP 15 28 30 d
		Mould Bay iP 15 31 55 d

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<p>Penticton iP 15 27 50 c</p> <p>Resolute eP 15 31 51 (d)</p> <p>Seven Falls eP 15 30 (58)</p> <p>Victoria eP 15 27 48</p> <p>JUNE 11 U.S.C.G.S. 30.7N, 86.9E Tibet H = 18 07 24.1 h = about 33 km Mag 4.5 (CGS) Mould Bay eP 18 18 48</p> <p>JUNE 11 U.S.C.G.S. 37.7N, 69.4E Hindu Kush H = 18 34 24.4 h = about 200 km Mag 4.1 (CGS) Mould Bay iP 18 44 51</p> <p>JUNE 11 U.S.C.G.S. 4.9N, 77.5W Near west coast of Colombia H = 18 34 30.6 h = about 33 km Mag 4.4 (CGS) Alert eP 18 46 26</p>	<p>Penticton eP 18 44 22</p> <p>Schefferville eP 18 43 28 d</p> <p>JUNE 12 Mould Bay eP 01 49 50</p> <p>JUNE 12 U.S.C.G.S. 30.8N, 142.0E South of Honshu, Japan H = 02 50 58.8 h = about 33 km Mag 4.4 (CGS) Resolute eP 03 01 (58)</p> <p>JUNE 12 U.S.C.G.S. 8.9N, 126.5E Near east coast of Mindanao, P.I. H = 03 28 20 h = about 33 km Mould Bay eP 03 41 02</p> <p>JUNE 12 U.S.C.G.S. 48°40'N, 123°16'W East of Sidney, Felt H = 05 15 07 Mag 2.5 Alberni iP₁ 05 15 29.7 D = 135 km</p>	<p>Penticton eP_n 05 15 49 D = 285 km</p> <p>Port Hardy eP_n 05 16 04.3</p> <p>Victoria iP₁ 05 15 11.5 iS₁ 05 15 14.7 D = 20 km</p> <p>JUNE 12 Mould Bay eP 12 01 13 (c)</p> <p>JUNE 12 U.S.C.G.S. 55.8S, 27.8W Sandwich Islands Region H = 15 11 59.2 h = about 33 km Coppermine eP' 15 31 (16)</p> <p>Mould Bay iP' 15 31 27 d</p> <p>Resolute eP' 15 31 (18)</p> <p>JUNE 12 U.S.C.G.S. 31.6N, 116.3W Baja California Norte H = 22 15 15.3 h = about 33 km Mag 4 3/4 - 5 (PAS) Edmonton eP 22 20 06 c</p>
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<p>JUNE 13 U.S.C.G.S. 15.2S, 173.3W Samoa Islands H = 05 14 26.6 h = about 33 km Mag 4.9 (CGS) Edmonton eP 05 27 01 c</p> <p>JUNE 13 U.S.C.G.S. 38.7N, 14.8E Off northern coast of Sicily H = 08 37 39.7 h = about 33 km Mag 4.4 (CGS) Edmonton eP 08 49 36 c</p> <p>Halifax eP 08 47 22</p> <p>Mould Bay eP 08 47 55.5</p> <p>Resolute eP 08 47 (31)</p> <p>Seven Falls eP 08 47 45</p> <p>JUNE 13 U.S.C.G.S. 6.1S, 130.1E Banda Sea H = 10 34 52.4 h = about 150 km Mag 4.9 (CGS) Edmonton eP' 10 53 08 (d)</p> <p>Mould Bay eP 10 48 24</p>	<p>Resolute eP' 10 53 (02)</p> <p>JUNE 13 U.S.C.G.S. 33.3S, 71.3W Near coast of Central Chile H = 16 59 10.9 h = about 94 km Schefferville eP 17 11 51</p> <p>JUNE 13 U.S.C.G.S. 4.6S, 153.2E New Britain H = 17 26 41.1 h = about 54 km Mag 5.0 (CGS) Mould Bay eP 17 39 53</p> <p>Yellowknife eP 17 40 00</p> <p>JUNE 13 66.0°N ± 0.2°, 135.0°W ± 0.7° About 20 miles north of Whitehorse, Y.T. H = 22 21 46.1 Mag 4.6 Coppermine P_n 22 23 39 S_n 22 25 05 L_g 22 25 53 D = 875 km</p>	<p>Mould Bay P_n 22 24 22.5 S_n 22 26 25.2 D = 1250 km</p> <p>Resolute P_n 22 25 21 S_n 22 28 05 eL_g 22 29 48 D = 1700 km</p> <p>Yellowknife P_n 22 24 01.5 S_n 22 25 43 D = 1050 km</p> <p>JUNE 13 Edmonton e 22 44 22</p> <p>JUNE 14 Resolute e(P) 00 46 (01)</p> <p>JUNE 14 U.S.C.G.S. 15.0N, 93.1W Near coast of Chiapas, Mexico H = 07 18 50.8 h = about 33 km Mag 3.7 (CGS) Mould Bay eP 07 29 15 (c) i 07 30 33</p> <p>Yellowknife eP 07 27 42</p>
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DOMINION OBSERVATORIES

JUNE 14
 U.S.C.G.S.
 16.4N, 94.6W
 Near coast of
 Chiapas, Mexico
 H = 07 23 16
 h = about 33 km
 Mag 4.2 (CGS)
 Coppermine
 eP 07 32 26 c
 Edmonton
 eP 07 30 42 c
 Mould Bay
 eP 07 33 32 (c)
 Penticton
 eP 07 30 35
 Resolute
 eP 07 33 00
 Yellowknife
 iP 07 31 49 c

JUNE 14
 U.S.C.G.S.
 14.6N, 93.4W
 Near coast of
 Chiapas, Mexico
 H = 08 19 16.6
 h = about 33 km
 Mag 4.0 (CGS)
 Edmonton
 eP 08 27 03 c
 Mould Bay
 eP 08 29 43
 Yellowknife
 iP 08 28 10 d

JUNE 14
 Mould Bay
 eP 14 17 32

JUNE 14
 Resolute
 eP 14 36 26

JUNE 14
 U.S.C.G.S.
 17.9S, 178.5W
 Fiji Islands
 Region
 H = 16 30 46.3
 h = about 587 km
 Mag 4.2 (CGS)
 Penticton
 iP 16 42 20

JUNE 14
 Mould Bay
 eP 19 44 50

JUNE 14
 Mould Bay
 iP 21 20 49
 i 21 20 57.5

JUNE 14
 50°39'N, 129°19'W
 West of
 Vancouver Island
 H = 23 37 48
 Mag 3.9
 Alberni
 iP_n 23 38 38.4
 D = 355 km
 Coppermine
 eP 23 42 03 (d)
 Edmonton
 eP 23 40 19 d
 Mould Bay
 eP 23 43 18
 Penticton
 eP_n 23 39 24
 D = 722 km
 Port Hardy
 eP₁ 23 38 10.3
 D = 136 km
 Victoria
 eP_n 23 38 56
 D = 502 km
 Yellowknife
 iP 23 41 09

JUNE 15
 U.S.C.G.S.
 53.2N, 167.0W
 Fox Islands,
 Aleutian Islands
 H = 02 20 11.5
 h = about 33 km
 Mag 4.3 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Edmonton
 eP 02 26 32
 Mould Bay
 eP 02 26 12 (c)
 i 02 26 16
 Resolute
 eP 02 27 (00)
 Yellowknife
 eP 02 26 08

JUNE 15
 U.S.C.G.S.
 15.0S, 177.8W
 Fiji Islands
 Region
 H = 05 01 52.0
 h = about 350 km
 Mag 4.6 (CGS)
 Penticton
 eP 05 13 34

JUNE 15
 Mould Bay
 eP 10 47 18
 Resolute
 eP 10 47 (53)

JUNE 15
 Canadian Arctic
 H = 11 43 27.9
 Mag 1.5
 Resolute
 eP₁ 11 43 47
 i 11 43 52
 S₁ 11 44 11.5
 D = 119 km

JUNE 15
 U.S.C.G.S.
 51.0N, 179.9E
 Rat Islands,
 Aleutian Islands
 H = 12 52 03.0
 h = about 33 km
 Mag 4.2 (CGS).
 Mould Bay
 eP 12 58 48
 i 13 01 25

JUNE 15
 U.S.C.G.S.
 45.0N, 110.8W
 Yellowstone
 National Park,
 Wyoming
 H = 13 15 52.6
 h = about 33 km
 Mag 4.1 (CGS)
 Edmonton
 eP 13 18 (06)
 Penticton
 eP 13 17 52

JUNE 15
 Edmonton
 eP 15 43 (34)
 Mould Bay
 eP' 15 49 (11)
 Penticton
 eP 15 43 20
 Yellowknife
 eP 15 44 19

JUNE 15
 Edmonton
 eP 21 28 (13)

JUNE 15
 U.S.C.G.S.
 55.7S, 28.5W
 Sandwich Islands
 H = 21 47 12.1
 h = about 33 km
 Mould Bay
 eP' 22 06 38
 Resolute
 eP' 22 06 30

JUNE 16
 U.S.C.G.S.
 44.3N, 135.5E
 Sea of Japan
 Region
 H = 02 53 24
 h = about 438 km
 Mag 4.0 (CGS)
 Mould Bay
 iP 03 01 44
 Resolute
 eP 03 02 25 c
 Yellowknife
 eP 03 02 45

JUNE 16
 U.S.C.G.S.
 42.7N, 142.0E
 Hokkaido, Japan
 H = 04 43 49.0
 h = about 80 km
 Mag 4.0 (CGS)
 Edmonton
 eP 04 54 19
 Resolute
 eP 04 53 28 c

DOMINION OBSERVATORIES

JUNE 16
U.S.C.G.S.
16.6N, 100.3W
Near coast of
Guerrero, Mexico
H = 06 27 15
h = about 33 km
Mag 4.2 (CGS)
Coppermine
eP 06 36 25 c
Edmonton
eP 06 34 32 c
Mould Bay
eP 06 37 24 c
Ottawa
eP 06 34 10
Penticton
eP 06 34 18
Yellowknife
iP 06 35 44

JUNE 16
Mould Bay
eP 06 59 42

JUNE 16
50°30'N, 129°30'W
West of Vancouver
Island
H = 09 19 55
Mag 4.3
Alberni
iP_n 09 20 45.3
D = 360 km
Banff
eP 09 22 05
Coppermine
eP 09 24 09 (d)
Edmonton
eP 09 22 24 c

Mould Bay
eP 09 25 24 d
Penticton
eP_n 09 21 31
D = 733 km
Port Hardy
eP₁ 09 20 18.4
D = 148 km
Resolute
eP 09 25 42 c
Victoria
iP_n 09 21 03 c
D = 502 km
Yellowknife
eP 09 23 14 d

JUNE 16
Yellowknife
eP 12 31 20

JUNE 16
U.S.C.G.S.
4.5S, 153.0E
New Ireland
H = 13 49 00.1
h = about 72 km
Mag 5.7 (CGS)
Mould Bay
eP 14 02 10
Yellowknife
eP 14 02 (17)

JUNE 16
U.S.C.G.S.
52.2N, 179.2E
Rat Islands,
Aleutian Islands
H = 17 27 19.4
h = about 139 km
Mag 4.0 (CGS)

Mould Bay
eP 17 33 45
Yellowknife
eP 17 34 05

JUNE 16
U.S.C.G.S.
15.2N, 61.4W
Windward Islands
H = 18 09 13.2
h = about 157 km
Mag 4.0 (CGS)
Mould Bay
eP 18 19 57

JUNE 16
Mould Bay
eP 20 11 15

JUNE 17
Edmonton
e 02 12 27

JUNE 17
Mould Bay
eP 09 02 15

JUNE 17
U.S.C.G.S.
44.0N, 85.3E
Sinkiang Province,
China
H = 10 17 15.0
h = about 33 km
Mould Bay
eP 10 27 13

SEISMOLOGICAL BULLETIN - 1963

JUNE 17
U.S.C.G.S.
44.9N, 150.6E
Kurile Islands
H = 10 23 00.1
h = about 33 km
Mag 4.2 (CGS)
Edmonton
eP 10 32 56 d
Mould Bay
eP 10 31 28
Resolute
eP 10 32 (15)

JUNE 17
Edmonton
eP 14 48 17 d
Mould Bay
eP 14 47 44

JUNE 17
Edmonton
eP 14 57 30

JUNE 17
U.S.C.G.S.
65.8S, 179.5W
Scott Island
Region
H = 18 30 54.1
h = about 33 km
Mag 5.6 (CGS)
Mould Bay
eP' 18 50 31 c
Ottawa
eP' 18 50 (15)

JUNE 17
U.S.C.G.S.
60.4N, 140.8W
Southwestern
Yukon
H = 18 32 14.5
h = about 33 km
Mag 5 1/4 - 5.1/2
(PAS)
5.1 (CGS)

Alert
eP 18 38 14 c
Banff
eP 18 36 05

Coppermine
eP 18 35 20 c
S 18 39 (10)
Edmonton
eP 18 36 04

Halifax
eP 18 40 42
Mould Bay
eP 18 36 15 (c)
Penticton
eP 18 36 03

Resolute
eP 18 37 04 (c)
Schefferville
eP 18 39 32
Sept Iles
eP 18 40 03 c
Victoria
eP 18 35 53
Yellowknife
iP 18 35 14 c

JUNE 17
Sept Iles
eP 19 21 15

JUNE 17
U.S.C.G.S.
20.4S, 174.4W
Tonga Islands
H = 20 08 37.0
h = about 33 km
Mag 4.9 (CGS)
Banff
eP 20 21 25
Edmonton
eP 20 21 36 c
Penticton
eP 20 21 09

JUNE 17
Mould Bay
eP 22 20 13

JUNE 17
Mould Bay
eP 22 37 27

JUNE 17
U.S.C.G.S.
4.1S, 102.2E
Near south coast
of Sumatra
H = 23 02 06.6
h = about 73 km
Mag 6.1 (CGS)
Coppermine
eP' 23 20 33
Edmonton
iP' 23 20 56 c
Halifax
eP' 23 21 24
Mould Bay
eP 23 16 04
Ottawa
eP' 23 21 (06)

DOMINION OBSERVATORIES

Penticton
iP' 23 20 56 c
Resolute
eP 23 16 (25)
Schefferville
eP' 23 21 (07)
Victoria
eP' 23 20 52

JUNE 18
Mould Bay
eP 02 26 56
Resolute
eP 02 27 38 (c)

JUNE 18
Coppermine
eP 04 05 17
Mould Bay
eP 04 05 03

JUNE 18
U.S.C.G.S.
29.0N, 129.9E
Ryukyu Islands
H = 04 02 31.0
h = about 33 km
Mag 5.5 (CGS)
Alert
eP 04 13 33 c
Coppermine
iP 04 13 53 c
Edmonton
eP 04 14 46 c
Mould Bay
iP 04 13 21 c
Penticton
iP 04 14 41 c
Resolute
iP 04 13 57 c

Schefferville
eP 04 15 53
Victoria
eP 04 14 32
Yellowknife
iP 04 14 14 c

JUNE 18
U.S.C.G.S.
36.3N, 70.7E
Hindu Kush
H = 08 37 58.4
h = about 223 km
Mag 4.4 (CGS)
Mould Bay
eP 08 48 32
i 08 49 21

JUNE 18
U.S.C.G.S.
5.3S, 78.5W
Northern Peru
H = 15 39 55
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 15 52 30

JUNE 18
Mould Bay
eP 17 04 31
Resolute
e(P) 17 03 (53)

JUNE 18
U.S.C.G.S.
12.6N, 124.2E
Southern Luzon,
P.I.
H = 23 14 23.9
h = about 16 km
Mag 4.6 (CGS)
Mould Bay
eP 23 26 54
Resolute
eP 23 27 22

JUNE 19
U.S.C.G.S.
63.4N, 151.3W
Alaska
H = 05 43 49.4
h = about 60 km
Mag 4.1 (CGS)
Edmonton
eP 05 48 40 c

JUNE 19
U.S.C.G.S.
4.7N, 126.5E
Talaud Islands
Region
H = 09 09 04.0
h = about 83 km
Mag 5 1/4 - 5 1/2
(PAL)
6.2 (CGS)
Alert
eP 09 22 09
Coppermine
eP 09 22 23
Edmonton
eP 09 23 03 (c)
Halifax
eP' 09 28 09

SEISMOLOGICAL BULLETIN - 1963

London
iP' 09 28 00 c
Mould Bay
eP 09 22 02
Ottawa
eP' 09 27 59
Penticton
eP 09 22 51
Resolute
eP 09 22 29
Schefferville
eP' 09 27 48 d
Sept Iles
eP' 09 27 (56)
Yellowknife
eP 09 22 39

JUNE 19
U.S.C.G.S.
25.0N, 92.1E
Assam, India
H = 10 47 24.7
h = about 51 km
Mag 5.7 (CGS)
Alert
eP 10 58 45
Coppermine
iP 10 59 57
Edmonton
eP 11 01 02 d
Mould Bay
eP 10 59 14 c
Resolute
eP 10 59 33 c
Yellowknife
iP 11 00 22 d

JUNE 19
U.S.C.G.S.
9.3S, 158.8E
Solomon Islands
H = 11 58 55.0
h = about 33 km
Mag 5.5 (CGS)
Edmonton
eP 12 12 19 c
Yellowknife
eP 12 12 22

JUNE 19
U.S.C.G.S.
63.2N, 146.3W
Alaska
H = 17 46 01.7
h = about 33 km
Mag 4.4 (CGS)
Coppermine
iP 17 49 19 c
Edmonton
eP 17 50 33 (c)
Mould Bay
eP 17 49 47
Penticton
eP 17 50 28
Resolute
eP 17 50 45
Yellowknife
iP 17 49 33 (c)

JUNE 19
U.S.C.G.S.
3.5S, 153.4E
New Ireland
Region
H = 18 22 09.6
h = about 279 km
Mag 5.1 (CGS)

Edmonton
eP 18 35 01 d
Mould Bay
eP 18 34 50
Penticton
iP 18 34 42 c
Resolute
eP 18 35 20 (d)
Yellowknife
iP 18 34 57 c

JUNE 19
Sept Iles
eP 19 37 55

JUNE 19
Edmonton
eP 22 00 25

JUNE 19
U.S.C.G.S.
31.5N, 140.3E
South of Honshu,
Japan
H = 23 01 51.5
h = about 38 km
Mag 5 1/2 (BKS)
5 1/4 (PAL)
5.0 (CGS)

Coppermine
eP 23 12 38
Edmonton
eP 23 13 (28)
Mould Bay
eP 23 12 09
Penticton
eP 23 13 17
Resolute
eP 23 12 48 c

SEISMOLOGICAL BULLETIN - 1963

DOMINION OBSERVATORIES

Victoria
eP 23 13 09
Yellowknife
iP 23 12 54

JUNE 20
U.S.C.G.S.
36.3N, 144.5E
Off east coast of
Honshu, Japan
H = 00 56 04.1
h = about 33 km
Mag 5.1 (CGS)
Edmonton
eP 01 07 03 d
Mould Bay
eP 01 05 45
Resolute
eP 01 06 27 d

JUNE 20
U.S.C.G.S.
12.5N, 89.2W
Off coast of
El Salvador
H = 03 34 18.2
h = about 75 km
Mag 3.9 (CGS)
Edmonton
eP 03 42 27 c
Mould Bay
eP 03 44 57
Resolute
eP 03 44 34
Yellowknife
iP 03 43 30 c

JUNE 20
U.S.C.G.S.
31.6N, 140.2E
South of Honshu,
Japan
H = 12 00 05.0
h = about 33 km
Mag 4.1 (CGS)
Resolute
eP 12 11 (02)

JUNE 20
Penticton
eP 16 15 06
JUNE 20
Mould Bay
eP 16 59 13

JUNE 20
U.S.C.G.S.
35.8N, 3.6W
Western Mediter-
ranean
H = 19 47 41.3
h = about 54 km
Mag 4.6 (CGS)
Edmonton
eP 19 59 04 c
Mould Bay
eP 19 57 53
Penticton
eP 19 59 37
Resolute
eP 19 57 18

JUNE 20
Resolute
eP 20 31 12 d

Yellowknife
iP 20 31 50 d

JUNE 20
U.S.C.G.S.
2.3S, 77.4W
Ecuador
H = 20 42 17.1
h = about 33 km
Mag 4.1 (CGS)
Mould Bay
eP 20 54 34.5

JUNE 20
U.S.C.G.S.
27.9S, 176.6W
Kermadec Islands
H = 22 46 18.1
h = about 41 km
Mag 5.2 (CGS)
Alert
eP' 23 05 05
Edmonton
eP 22 59 (48)
Mould Bay
eP' 23 04 44
Penticton
eP 22 59 24
Resolute
eP' 23 04 53 (d)
Victoria
eP 22 59 13

JUNE 20
U.S.C.G.S.
52.9N, 168.6W
Fox Islands
Aleutian Islands
H = 23 15 33.4
h = about 33 km
Mag 4.1 (CGS)
Edmonton
eP 23 22 (01)

JUNE 21
Resolute
e(P) 00 27 06

JUNE 21
U.S.C.G.S.
10.6N, 85.9W
Near coast of
Costa Rica
H = 03 32 41.0
h = about 82 km
Mag 4.6 (CGS)
Edmonton
eP 03 41 11
Penticton
eP 03 41 11
Resolute
eP 03 43 08 c

JUNE 21
U.S.C.G.S.
15.2N, 91.9W
Gautemala-Mexico
Border
H = 04 02 55.7
h = about 218 km
Mag 4.0 (CGS)
Edmonton
eP 04 10 (24)

Penticton
eP 04 10 18
Resolute
e(P) 04 12 (35)

JUNE 21
Edmonton
eP 06 03 46 (c)
Resolute
e(P) 06 04 (16)

JUNE 21
U.S.C.G.S.
4.9S, 81.3W
Near coast of
Peru
H = 12 13 13.0
h = about 33 km
Mag 4.1 (CGS)
Edmonton
eP 12 23 43 c
Penticton
eP 12 23 42

JUNE 21
U.S.C.G.S.
23.7S, 66.6W
Jujuy Province,
Argentina
H = 12 18 26.9
h = about 221 km
Mag 5.1 (CGS)
Banff
eP 12 30 43
Edmonton
iP 12 30 45 d
Penticton
iP 12 30 41
Victoria
eP 12 30 52

JUNE 21
U.S.C.G.S.
47.9N, 130.3E
Eastern Manchuria
H = 13 44 24.6
h = about 33 km
Mag 4.9 (CGS)
Alert
eP 13 53 15 c
Coppermine
eP 13 53 50
Edmonton
eP 13 55 06
Penticton
iP 13 55 08
Resolute
eP 13 53 47 (c)

JUNE 21
U.S.C.G.S.
25.2N, 92.2E
Eastern India
H = 15 26 31.0
h = about 56 km
Mag 5.6 (CGS)
Alert
eP 15 37 50 c
Coppermine
eP 15 39 02
Edmonton
eP 15 40 06 c
Resolute
eP 15 38 37 c

JUNE 22
U.S.C.G.S.
6.0S, 113.1E
Java Sea
H = 16 12 14.0
h = about 595 km
Mag 5.1 (CGS)

DOMINION OBSERVATORIES

Resolute
e(P) 16 29 38

JUNE 22
Alert
eP 18 38 43 d

JUNE 22
U.S.C.G.S.
52.9N, 121.3E
Northwestern
Manchuria
H = 20 51 56.8
h = about 33 km
Mag 4.5 (CGS)
Mould Bay
eP 21 00 12
i 21 02 37
Resolute
eP 21 00 (50)

JUNE 23
Alert
eP 04 08 23 d
Mould Bay
eP 04 08 01
Resolute
eP 04 08 11 (d)

JUNE 23
Port Hardy
iP₁ 06 29 35.5
iS₁ 06 29 58.5
D = 188 km

JUNE 23
Port Hardy
iP₁ 07 09 11.6
iS₁ 07 09 36.5
D = 204 km

JUNE 23
U.S.C.G.S.
6.0S, 146.6E
New Guinea
H = 08 53 09.6
h = about 61 km
Mag 5.3 (CGS)
Mould Bay
eP 09 06 33

JUNE 23
U.S.C.G.S.
37.7N, 141.7E
Near east coast
of Honshu, Japan
H = 09 03 49.0
h = about 39 km
Mag 4.5 (CGS)
Mould Bay
eP 09 13 24
Resolute
eP 09 14 06

JUNE 23
Port Hardy
iP₁ 12 42 47.0
iS₁ 12 43 10.5
D = 192 km

JUNE 23
Port Hardy
iP₁ 13 09 16.5
iS₁ 13 09 38.7
D = 181 km

JUNE 23
51.3°N, 129.8°W
West of Vancouver
Island
H = 13 11 38
Mag 4.0
Alberni
eP_n 13 12 35.6
D = 420 km
Port Hardy
iP₁ 13 12 07.3
D = 188 km
Victoria
eP_n 13 12 53.6
D = 568 km

JUNE 23
Alert
eP 17 39 44

JUNE 23
U.S.C.G.S.
12.3N, 140.7E
Mariana Islands
Region
H = 18 27 11.8
h = about 42 km
Mag 4.9 (CGS)
Edmonton
eP 18 40 07
Mould Bay
eP 18 39 21
Resolute
eP 18 39 53

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JUNE 24
U.S.C.G.S.
59.5N, 151.7W
Cook Inlet
H = 04 26 37.9
h = about 52 km
Mag 6 3/4 (PAS)
5.7 (CGS)

Alert
eP 04 32 56 d
Banff
eP 04 31 28 c
Edmonton
iP 04 31 28 c
Halifax
eP 04 35 45 c
London
iP 04 34 48 c
Mould Bay
eP 04 31 10 d
iS 04 34 53
Ottawa
eP 04 34 55
Penticton
iP 04 31 20 c
Port Hardy
eP 04 30 24
Resolute
eP 04 32 02 (d)
Scarboro
iP 04 34 53 c
Schefferville
eP 04 34 37 d
Sept Iles
eP 04 35 01
Seven Falls
eP 04 35 04 (d)
Victoria
eP 04 31 05

JUNE 24
Mould Bay
i(P) 05 05 (25)
i 05 08 (23)

JUNE 24
Edmonton
e 05 15 54

JUNE 24
U.S.C.G.S.
59.4N, 151.5W
Cook Inlet
Alaska
H = 05 43 48.1
h = about 57 km
Mag 4.7 (CGS)
Banff
eP 05 48 37
Edmonton
iP 05 48 36 d
Mould Bay
eP 05 48 20
S 05 52 (15)
Penticton
iP 05 48 28 d
Resolute
eP 05 49 12 d

JUNE 24
Edmonton
e 05 59 38

JUNE 24
Mould Bay
eP 06 13 (00)
Resolute
eP 06 13 53

JUNE 24
Edmonton
eP 06 23 (59)
Mould Bay
eP 06 23 48

JUNE 24
Edmonton
eP 06 35 36
Mould Bay
eP 06 35 19.5
Resolute
eP 06 36 12 (d)

JUNE 24
Mould Bay
eP 08 17 58

JUNE 24
51.0°N, 130°W
West of Vancouver
Island
H = 10 17 24
Mag 4.1
Alberni
iP_n 10 18 22.3
D = 426 km

Banff
eP 10 19 28.4
Edmonton
eP 10 19 (40)
Mould Bay
eP 10 22 15
Penticton
eP_n 10 19 07
D = 790 km

DOMINION OBSERVATORIES

Port Hardy
 iP₁ 10 17 49.7
 iS₁ 10 18 09.5
 D = 162 km
 Resolute
 eP 10 22 (40)
 Victoria
 eP_n 10 18 40.9
 D = 578 km

JUNE 24
 U.S.C.G.S.
 25.5S, 175.6W
 Tonga Islands
 Region
 H = 13 18 08.2
 h = about 238
 Mag 4.6 (CGS)
 Edmonton
 eP 13 31 (06)
 Penticton
 eP 13 30 33

JUNE 24
 U.S.C.G.S.
 59.0N, 136.9W
 Southwestern
 Alaska
 H = 14 18 29.6
 h = about 33 km
 Mag 3.9 (CGS)
 Edmonton
 eP 14 21 49
 Mould Bay
 eP 14 22 42
 Penticton
 eP 14 21 48
 Resolute
 eP 14 23 22 (c)
 Schefferville
 eP 14 25 (41)

JUNE 24
 U.S.C.G.S.
 15.5S, 177.5W
 Fiji Islands
 Region
 H = 15 01 44.2
 h = about 412 km
 Mag 5.0 (CGS)
 Edmonton
 eP 15 13 48
 Mould Bay
 eP 15 14 34
 Penticton
 eP 15 13 21
 Victoria
 eP 15 13 09

JUNE 24
 U.S.C.G.S.
 52.3N, 171.2W
 Fox Islands Region,
 Aleutian Islands
 H = 16 17 15.4
 h = about 33 km
 Mag 5.4 (CGS)
 Alert
 eP 16 24 57 d
 Edmonton
 eP 16 24 (00)
 Halifax
 eP 16 27 56
 London
 iP 16 27 03
 Mould Bay
 eP 16 23 32.5
 S
 16 28 35
 Ottawa
 eP 16 27 11
 Penticton
 iP 16 23 43
 Resolute
 eP 16 24 22

Schefferville
 eP 16 26 54
 Victoria
 eP 16 23 25

JUNE 24
 U.S.C.G.S.
 52.3N, 171.2W
 Fox Islands,
 Aleutian Islands
 H = 16 52 06.2
 h = about 33 km
 Mag 4.5 (CGS)
 Mould Bay
 eP 16 58 24
 i 17 01 18

JUNE 24
 49°36'N, 127°05'W
 West of Vancouver
 Island
 H = 18 14 22
 Mag 3.2
 Alberni
 iP₁ 18 14 38.3
 iS₁ 18 14 57.0
 D = 169 km
 Penticton
 eP_n 18 15 26.0
 D = 548 km
 Port Hardy
 iP₁ 18 14 32.6
 iS₁ 18 14 45.0
 D = 127 km
 Victoria
 eP_n 18 14 55.1
 D = 296 km

SEISMOLOGICAL BULLETIN - 1963

JUNE 24
 Mould Bay
 eP 18 37 47

JUNE 25
 U.S.C.G.S.
 44.3N, 129.1W
 Off coast of
 Oregon
 H = 08 26 21.9
 h = about 31 km
 Mag 4.5 (CGS)
 Banff
 eP 08 29 07
 Penticton
 eP 08 28 22
 Resolute
 eP 08 33 05 (d)
 Victoria
 eP 08 27 47

JUNE 25
 U.S.C.G.S.
 44.3N, 129.1W
 Off coast of
 Oregon
 H = 09 39 28.4
 h = about 32 km
 Mag 4.5 (CGS)
 Banff
 eP 09 42 13
 Penticton
 eP 09 41 28
 Resolute
 eP 09 46 12
 Victoria
 eP 09 40 53

JUNE 25
 U.S.C.G.S.
 8.7N, 82.9W
 Panama-Costa
 Rica Border
 H = 11 43 41.3
 h = about 37 km
 Mag 4.4 (CGS)
 Alert
 eP 11 55 15 d
 London
 iP 11 50 25 c
 Mould Bay
 eP 11 54 52
 Resolute
 eP 11 54 26 (c)
 Schefferville
 eP 11 52 (16)

JUNE 25
 U.S.C.G.S.
 8.4S, 106.5E
 Near south coast
 of Java
 H = 14 32 14.3
 h = about 78 km
 Mag 5.4 (CGS)
 London
 eP' 14 51 45

JUNE 25
 U.S.C.G.S.
 44.0N, 110.0W
 Yellowstone National
 Park, Wyoming
 H = 15 51 49.0
 h = about 33 km
 Mag 3.9 (CGS)
 Penticton
 eP 15 53 54

JUNE 26
 U.S.C.G.S.
 11.5N, 143.0E
 Mariana Islands
 Region
 H = 07 55 41.4
 h = about 48 km
 Mag 4.8 (CGS)
 Mould Bay
 eP 08 07 49
 Penticton
 iP 08 08 19
 Resolute
 eP 08 08 22 c

JUNE 26
 U.S.C.G.S.
 38.9N, 142.0E
 Near coast of
 northern Honshu,
 Japan
 H = 08 33 18.7
 h = about 33 km
 Mag 4.2 (CGS)
 Alert
 eP 08 43 11 c
 Mould Bay
 eP 08 42 45 (c)
 Resolute
 eP 08 43 27

JUNE 26
 U.S.C.G.S.
 4.6N, 126.3E
 Off coast of
 Mindanao, P.I.
 H = 09 41 31.2
 h = about 33 km
 Mag 4.9 (CGS)
 Mould Bay
 eP 09 54 34

DOMINION OBSERVATORIES

Resolute eP 09 55 (01)	JUNE 26 U.S.C.G.S. 5.9N, 72.7W Colombia H = 14 22 49 h = about 33 km Mag 4.6 (CGS) London eP 14 30 03 Mould Bay eP 14 34 27.5 c Sept Iles eP 14 31 00 c	Schefferville eP 17 51 28 c Sept Iles eP 17 50 56 Seven Falls iP 17 50 (23) Victoria iP 17 52 05 c
JUNE 26 U.S.C.G.S. 35.3N, 3.7W Western Mediterranean H = 10 27 03.1 h = about 33 km Mag 4.6 (CGS) Alert eP 10 36 04 c Mould Bay eP 10 37 18 Resolute eP 10 36 (45) Sept Iles eP 10 35 40	JUNE 26 U.S.C.G.S. 7.1N, 82.3W Near south coast of Panama H = 17 42 40.6 h = about 20 km Mag 6 1/4 - 6 1/2 (PAS) 5 1/2 - 5 3/4 (PAL) 6.0 (CGS) Alert iP 17 54 26 c Edmonton iP 17 51 52 c Halifax iP 17 50 24 c London eP 17 49 39 c Mould Bay eP 17 54 03 c Ottawa iP 17 50 04 c Penticton iP 17 51 54 c Resolute eP 17 53 38	JUNE 26 Mould Bay eP 22 29 53 JUNE 27 U.S.C.G.S. 60.5N, 140.7W Yukon Territory H = 07 08 01.7 h = about 29 km Mag 4.6 (CGS) Alert eP 07 14 01 c Banff eP 07 11 55 Edmonton eP 07 11 51 Mould Bay eP 07 12 03 Ottawa eP 07 15 (35) Penticton eP 17 11 51 Resolute eP 07 12 52 Victoria eP 07 11 35
JUNE 26 U.S.C.G.S. 36.4N, 76.9E Sinkiang Province, China H = 14 09 13.0 h = about 33 km Mag 5.3 (CGS) Alert iP 14 19 16 d Mould Bay iP 14 20 05 d iS 14 28 51 Penticton iP 14 22 21 Resolute iP 14 20 16 d Schefferville eP 14 21 39 d Sept Iles eP 14 22 01	JUNE 27 U.S.C.G.S. 60.5N, 140.7W Yukon Territory H = 07 08 01.7 h = about 29 km Mag 4.6 (CGS) Alert eP 07 14 01 c Banff eP 07 11 55 Edmonton eP 07 11 51 Mould Bay eP 07 12 03 Ottawa eP 07 15 (35) Penticton eP 17 11 51 Resolute eP 07 12 52 Victoria eP 07 11 35	JUNE 27 U.S.C.G.S. 60.5N, 140.7W Yukon Territory H = 07 08 01.7 h = about 29 km Mag 4.6 (CGS) Alert eP 07 14 01 c Banff eP 07 11 55 Edmonton eP 07 11 51 Mould Bay eP 07 12 03 Ottawa eP 07 15 (35) Penticton eP 17 11 51 Resolute eP 07 12 52 Victoria eP 07 11 35

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JUNE 27 U.S.C.G.S. 8.3S, 111.2E Near coast of Java H = 11 46 57.9 h = about 180 km Edmonton eP' 12 05 35	JUNE 27 U.S.C.G.S. 48.0N, 152.9E Kurile Islands Region H = 23 25 02.6 h = about 109 km Mag 4.2 (CGS) Resolute eP 23 33 45	Resolute eP 04 45 55
JUNE 27 U.S.C.G.S. 39.1N, 140.7E Northern Honshu, Japan H = 15 08 09 h = about 114 km Mag 4.0 (CGS) Resolute eP 15 18 10	JUNE 28 U.S.C.G.S. 27.5S, 66.1E Indian Ocean H = 02 28 51.6 h = about 33 km Mag 6.0 (CGS) Edmonton eP' 02 48 (41) London iP' 02 48 34 Mould Bay eP' 02 48 (02) Ottawa eP' 02 48 24 d Penticton eP' 02 48 46 Resolute eP' 02 48 02 Victoria eP' 02 48 46	JUNE 28 Edmonton eP 13 29 (05) Mould Bay eP 13 27 (05) i 13 29 (28) Penticton eP 13 29 14 Resolute eP 13 28 (22)
JUNE 27 U.S.C.G.S. 14.4N, 93.7E Andaman Islands Region H = 15 32 53.1 h = about 33 km Mag 5.2 (CGS) Alert iP 15 45 15 c Mould Bay eP 15 45 38 c i 15 48 49 Resolute eP 15 45 56	JUNE 28 U.S.C.G.S. 43.7N, 146.5E Kurile Islands Region H = 04 36 24.2 h = about 29 km Mag 4.3 (CGS)	JUNE 28 U.S.C.G.S. 1.3N, 97.4E Near coast of Sumatra H = 13 47 47.7 h = about 50 km Mag 5.0 (CGS) Edmonton eP' 14 06 34 Mould Bay eP 14 01 28

DOMINION OBSERVATORIES

JUNE 28
 U.S.C.G.S.
 46.5N, 153.2E
 Kurile Islands
 Region
 H = 21 55 38.8
 h = about 33 km
 Mag 6 3/4 (PAS)
 6.1 (CGS)
 Alert
 iP 22 04 32 c
 Edmonton
 iP 22 05 18 c
 Halifax
 eP 22 08 09
 London
 eP 22 07 40 c
 Mould Bay
 iP 22 03 51 c
 iS 22 10 27
 Ottawa
 eP 22 07 38
 Penticton
 eP 22 05 11
 Resolute
 eP 22 04 40 c
 Schefferville
 eP 22 07 10
 Sept Iles
 eP 22 07 33
 Seven Falls
 eP 22 07 41
 Victoria
 eP 22 04 57

JUNE 28
 U.S.C.G.S.
 46.6N, 153.5E
 Kurile Islands
 Region
 H = 22 15 28.5
 h = about 33 km
 Mag 4.6 (CGS)
 Edmonton
 eP 22 25 07
 Mould Bay
 eP 22 23 40
 Resolute
 eP 22 24 29
 JUNE 28
 U.S.C.G.S.
 46.6N, 153.7E
 Kurile Islands
 Region
 H = 22 22 02
 h = about 33 km
 Mag 4.5 (CGS)
 Mould Bay
 eP 22 30 14.5
 Resolute
 eP 22 31 02
 JUNE 28
 U.S.C.G.S.
 46.7N, 153.4E
 Kurile Islands
 Region
 H = 22 25 04.5
 h = about 33 km
 Mag 5.1 (CGS)
 Edmonton
 iP 22 34 43 c
 Mould Bay
 iP 22 33 16 c

Penticton
 eP 22 34 34
 Resolute
 eP 22 34 04 c
 JUNE 28
 U.S.C.G.S.
 46.6N, 153.3E
 Kurile Islands
 Region
 H = 22 49 34.0
 h = about 33 km
 Mag 4.3 (CGS)
 Mould Bay
 eP 22 57 45
 Resolute
 eP 22 58 34

JUNE 28
 U.S.C.G.S.
 46.4N, 153.4E
 Kurile Islands
 Region
 H = 22 57 03.4
 h = about 33 km
 Mag 4.8 (CGS)
 Edmonton
 eP 23 06 (43)
 Mould Bay
 eP 23 05 16 c
 Penticton
 eP 23 06 33
 Resolute
 eP 23 06 04

SEISMOLOGICAL BULLETIN - 1963

JUNE 28
 U.S.C.G.S.
 46.4N, 153.5E
 Kurile Islands
 Region
 H = 23 53 56.1
 h = about 33 km
 Mag 5.3 (CGS)
 Alert
 eP 24 02 48 c
 Edmonton
 eP 24 03 35 c
 Mould Bay
 eP 24 02 08.5 c
 Penticton
 eP 24 03 27
 Resolute
 eP 24 02 57
 Schefferville
 eP 24 05 27

JUNE 29
 U.S.C.G.S.
 46.2N, 153.5E
 Kurile Islands
 Region
 H = 02 21 45.8
 h = about 33 km
 Mag 4.4 (CGS)
 Alert
 eP 02 30 40 c
 Edmonton
 eP 02 31 (29)
 Mould Bay
 eP 02 29 58
 Resolute
 eP 02 30 47 c

JUNE 29
 U.S.C.G.S.
 46.0N, 153.5E
 Kurile Islands
 Region
 H = 04 07 10.0
 h = about 33 km
 Mag 4.7 (CGS)
 Edmonton
 eP 04 16 (52)
 Mould Bay
 eP 04 15 25
 Resolute
 eP 04 16 13 c

JUNE 29
 U.S.C.G.S.
 46.4N, 153.3E
 Kurile Islands
 Region
 H = 05 38 56.2
 h = about 33 km
 Mag 4.7 (CGS)
 Alert
 eP 05 47 48 c
 Edmonton
 eP 05 48 36 (c)
 Mould Bay
 eP 05 47 09
 Resolute
 eP 05 47 58 c

JUNE 29
 U.S.C.G.S.
 40.3N, 126.9W
 Off coast of
 northern California
 H = 08 09 27.6
 h = about 33 km
 Mag 4.2 (CGS)

Edmonton
 eP 08 13 (08)
 Mould Bay
 eP 08 16 27.5
 Resolute
 eP 08 16 00

JUNE 29
 Mould Bay
 eP 09 39 10 d

JUNE 29
 U.S.C.G.S.
 11.6N, 142.7E
 Mariana Islands
 Region
 H = 12 43 47.5
 h = about 30 km
 Mag 5.2 (CGS)
 Alert
 eP 12 56 23 c
 Edmonton
 eP 12 56 40 d
 Mould Bay
 eP 12 55 58
 Resolute
 eP 12 56 30 (d)

JUNE 29
 U.S.C.G.S.
 11.7N, 142.8E
 Mariana Islands
 H = 13 04 23.5
 h = about 33 km
 Mag 4.9 (CGS)
 Alert
 eP 13 16 59 c
 Edmonton
 eP 13 17 (16)

DOMINION OBSERVATORIES

Mould Bay
eP 13 16 34 c
Resolute
eP 13 17 06 c

JUNE 29
U.S.C.G.S.
46.1N, 153.2E
Kurile Islands
Region
H = 14 20 56.3
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 14 29 10.5
Resolute
eP 14 29 59 (c)

JUNE 29
U.S.C.G.S.
46.4N, 153.7E
Kurile Islands
Region
H = 13 14 04.2
h = about 33 km
Mag 4.7 (CGS)
Edmonton
eP 13 23 43 (d)
Mould Bay
eP 13 22 17
Resolute
eP 13 23 (05)

JUNE 29
Mould Bay
iP 13 26 56
Resolute
eP 13 27 (29)

JUNE 29
Mould Bay
eP 13 31 13
Resolute
eP 13 31 46 d

JUNE 29
U.S.C.G.S.
46.3N, 153.4E
Kurile Islands
Region
H = 18 42 14.8
h = about 33 km
Mag 4.9 (CGS)
Alert
P 18 51 08
Mould Bay
eP 18 50 (34)
Resolute
eP 18 51 16 (d)

JUNE 29
U.S.C.G.S.
46.3N, 153.5E
Kurile Islands
Region
H = 20 16 40.6
h = about 33 km
Mag 4.6 (CGS)
Alert
eP 20 25 34 c
Edmonton
eP 20 26 20 (d)

Mould Bay
eP 20 24 54
Resolute
eP 20 25 42 c

JUNE 29
Edmonton
eP 22 14 02 d
Mould Bay
eP 22 12 55 c
Resolute
eP 22 13 33 d

JUNE 30
U.S.C.G.S.
46.5N, 153.4E
Kurile Islands
Region
H = 00 42 23.1
h = about 33 km
Mag 4.5 (CGS)
Alert
eP 00 51 15 c
Edmonton
eP 00 52 (02)
Mould Bay
eP 00 50 35 c
Resolute
eP 00 51 23 c

JUNE 30
U.S.C.G.S.
11.8N, 142.5E
Mariana Islands
Region
H = 01 39 05.4
h = about 33 km
Mag 4.6 (CGS)
Alert
eP 01 51 41

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Edmonton
eP 01 51 (59)
Mould Bay
eP 01 51 15
Penticton
eP 01 51 45
Resolute
eP 01 51 48 d

JUNE 30
Resolute
e(P) 03 45 (27)

JUNE 30
U.S.C.G.S.
36.5N, 70.5E
Hindu Kush
H = 03 59 15.4
h = about 200 km
Mag 4.4 (CGS)
Mould Bay
eP 04 09 50

JUNE 30
U.S.C.G.S.
11.7N, 142.6E
Mariana Islands
Region
H = 04 19 17.0
h = about 33 km
Mag 4.7 (CGS)
Alert
eP 04 31 53 c
Edmonton
eP 04 32 11
Mould Bay
eP 04 31 28 c
Penticton
iP 04 31 58

Resolute
eP 04 32 01 (d)

JUNE 30
U.S.C.G.S.
64.4N, 146.9W
Central Alaska
H = 05 18 09.7
h = about 27 km
Mag 4.5 (CGS)
Edmonton
eP 05 22 46 (c)
Mould Bay
eP 05 21 38
Resolute
eP 05 22 44
Schefferville
eP 05 25 37

JUNE 30
U.S.C.G.S.
2.5S, 102.4E
Sumatra
H = 06 45 36.8
h = about 160 km
Mag 5.5 (CGS)
Edmonton
eP' 07 04 11 c
Mould Bay
eP 06 59 (15)
Penticton
iP' 07 04 11
Resolute
eP 06 59 39

JUNE 30
U.S.C.G.S.
47.1N, 152.4E
Kurile Islands
Region
H = 07 38 57.9
h = about 79 km
Mag 4.1 (CGS)
Edmonton
eP 07 48 32 c

JUNE 30
U.S.C.G.S.
33.3N, 49.1E
Western Iran
H = 07 41 08.2
h = about 40 km
Mag 5.0 (CGS)
Edmonton
eP 07 54 16
Mould Bay
eP 07 52 19 c
Resolute
eP 07 52 16 c
Schefferville
eP 07 52 (56)

JUNE 30
U.S.C.G.S.
7.2S, 75.2W
Central Peru
H = 11 09 49.0
h = about 33 km
Mag 4.3 (CGS)
Mould Bay
eP 11 22 35 c

DOMINION OBSERVATORIES

JUNE 30
 U.S.C.G.S.
 8.2S, 77.5W
 Central Peru
 H = 12 43 51.1
 h = about 33 km
 Mag 4.1 (CGS)
 Edmonton
 eP 12 54 50 c
 Mould Bay
 eP 12 56 38

London
 eP 22 16 52 c
 Mould Bay
 eP 22 13 05
 S 22 19 41
 Resolute
 eP 22 13 53 d
 Schefferville
 eP 22 16 23

JUNE 30
 U.S.C.G.S.
 7.4N, 72.9W
 Northern Colombia
 H = 15 33 53.4
 h = about 103 km
 Mag 3.8 (CGS)
 Mould Bay
 eP 15 45 15 d

JUNE 30
 Edmonton
 eP 16 22 51
 Resolute
 e(P) 16 21 (02)

JUNE 30
 U.S.C.G.S.
 46.5N, 153.3E
 Kurile Islands
 Region
 H = 22 04 52.8
 h = about 33 km
 Mag 4.9 (CGS)
 Alert
 iP 22 13 46 c
 Edmonton
 eP 22 14 32 (c)

SEISMOLOGICAL BULLETIN - 1963

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the second quarter of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin. M = magnitude.

- APRIL 3 05 36 02. M = 2.3. 107 miles from Alert, N.W.T.
- APRIL 3 20 55 11. Depth about 30 km. M = 3.0. 165 miles from Resolute, N.W.T.
- APRIL 4 22 41 09. 81°25'N±18', 86°20'W±1.5°. M = 3.2. In the western part of Ellesmere Island, N.W.T.
- APRIL 6 02 14 04. M = 1.8. 43 miles from Mould Bay, N.W.T.
- APRIL 6 08 51 31. Depth 30 km. M = 2.3. 127 miles from Resolute, N.W.T.
- APRIL 6 08 59 39. Depth 30 km. M = 2.0. 127 miles from Resolute, N.W.T. Aftershock of the previous Earthquake.
- APRIL 12 19 16 39. 73°20'N±18', 96°50'W±1.0°. M = 3.8. In Peel Sound, N.W.T.
- APRIL 16 21 24 34. 71.5°N±0.4°, 74.7°W±1.0°. M = 4.2. Near Cambridge Fd., Baffin Island, N.W.T.
- APRIL 21 13 42 09. M = 2.2. 102 miles from Resolute, N.W.T.
- APRIL 22 09 50 03. 67°02'N±17', 135°00'W±30'. M = 3.8. About 25 miles south of Fort McPherson on the Yukon-Northwest Territories border.
- MAY 2 03 05 29. M = 1.9. 81 miles from Resolute, N.W.T.
- MAY 3 02 13 26. M = 2.4. 209 miles from Resolute, N.W.T.
- MAY 3 21 21 11. 71°24'N±18', 86°30'W±40'. M = 4.0. Brodeur Peninsula, Baffin Island, N.W.T.
- MAY 4 17 45 01. M = 1.8. 41 miles from Resolute, N.W.T.

SEISMOLOGICAL BULLETIN - 1963

EARTHQUAKES IN EASTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the second quarter of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin. M = magnitude.

APRIL 4 08 53 06. 53.4°N±0.5°, 64.7°W±1.0°. M = 3.5. About 30 miles east of Goose Bay, Labrador, Nfld.

MAY 19 19 14 18. 43°30'N±12', 75°14'W±15'. M = 3.5. About 20 miles north of Rome, N.Y. Felt around Lyons Falls, N.Y.

DOMINION OBSERVATORIES

- MAY 8 12 59 13. M = 3.4. 233 miles from Resolute, N.W.T.
- MAY 8 15 43 47. M = 2.8. 127 miles from Alert, N.W.T.
- MAY 16 15 13 12. 81°30'N±15', 86°30'W±1.0°. M = 3.7. About 30 miles north of Otto Fiord, Ellesmere Island, N.W.T.
- MAY 25 15 22 55. M = 2.3. 102 miles from Resolute, N.W.T.
- MAY 26 12 18 03. M = 2.1. 71 miles from Resolute, N.W.T.
- MAY 29 17 09 38. 75°05'N±12', 93°40'W±50'. M = 3.1. About 28 miles northeast of Resolute, N.W.T.
- JUNE 2 16 10 31. M = 2.8. 70 miles from Resolute, N.W.T.
- JUNE 5 01 31 37. 66°30'N±18', 110.0°W±1.0°. About 60 miles west of Bathurst Inlet, N.W.T. or 66°30'N±18', 120.0°W±1.0°. On the north shore of Great Bear Lake, N.W.T. M = 3.1.
- JUNE 13 22 21 46. 66.0°N±0.2°, 135.0°W±0.7°. M = 4.6. About 20 miles north of Whitehorse, Y.T.
- JUNE 15 11 43 28. M = 1.5. 74 miles from Resolute, N.W.T.

DOMINION OBSERVATORIES

 EARTHQUAKES IN WESTERN CANADA AND
 ADJACENT AREAS

The following disturbances were recorded during the 2nd quarter of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin. In some cases, although they are not included in the text, readings from USC and GS stations were used to compute epicentres.

- APRIL 4 at 04 48 36 U.T. Magnitude 1.9. 165 km from Port Hardy.
- APRIL 5 at 09 27 16 U.T. Magnitude 3.0. Epicentre at 49.6°N, 126.5°W, near Nootka Sound.
- APRIL 6 at 01 04 37 U.T. Magnitude 2.7. Epicentre at 48.9°N, 115.4°W, in Montana, U.S.A.
- APRIL 7 at 21 16 18 U.T. Magnitude 2.8. Epicentre at 49°45'N, 123°40'W, near Jervis Inlet.
- APRIL 16 at 14 18 30 U.T. Magnitude 3.6. Epicentre at 47°55'N, 129°18'W, west of Vancouver Island.
- APRIL 16 at 16 24 59 U.T. Magnitude 1.8. 160 km from Penticton.
- APRIL 20 at 13 25 42 U.T. Magnitude 3.5. Epicentre at 50.8°N, 129.6°W, west of Vancouver Island.
- APRIL 23 at 12 58 06 U.T. Magnitude 3.7. Epicentre at 50.6°N, 129.2°W, west of Vancouver Island.
- MAY 6 at 14 33 33 U.T. Magnitude 2.3. Epicentre at 49°04'N, 122°15'W, east of Abbotsford.
- MAY 9 at 05 08 20 U.T. Magnitude 2.0. Epicentre at 48°56'N, 123°03'W, in Gulf Islands.
- MAY 11 at 19 07 04 U.T. Magnitude 2.5. Epicentre at 49°43'N, 126°26'W, near Nootka Sound.

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- MAY 16 at 09 01 25 U.T. Magnitude 1.9. Epicentre at 48°41'N, 123°09'W, in Gulf Islands.
- MAY 18 at 14 04 01 U.T. Magnitude 2.2. Epicentre at 48°44'N, 121°59'W, near Mt. Baker, U.S.A.
- MAY 21 at 17 49 01 U.T. Magnitude 2.8. Epicentre is 81 km from Victoria and 176 km from Alberni.
- JUNE 1 at 13 55 55.6 U.T. Magnitude 4.1. Epicentre at 54.5°N±0.5°, 117.8°W±0.5°, about 110 miles south of Peace River, Alta.
- JUNE 4 at 05 27 10 U.T. Magnitude 2.1. Epicentre at 44°09'N, 120°29'W, in Huntington region.
- JUNE 5 at 04 45 12 U.T. Magnitude 2.2. Epicentre is 78 km from Victoria and 240 km from Penticton.
- JUNE 5 at 15 53 09 U.T. Magnitude 2.3. Epicentre is 214 km from Penticton.
- JUNE 10 at 16 19 52 U.T. Magnitude 2.8. Epicentre at 48.0°N, 122.8°W, in Puget Sound U.S.A.
- JUNE 12 at 05 15 07 U.T. Magnitude 2.5. Epicentre at 48°40'N, 123°16'W, east of Sidney. Felt MM III.
- JUNE 14 at 23 37 48 U.T. Magnitude 3.9. Epicentre at 50°39'N, 129°19'W, west of Vancouver Island.
- JUNE 16 at 09 19 55 U.T. Magnitude 4.3. Epicentre at 50°30'N, 129°30'W, west of Vancouver Island.
- JUNE 23 The following are presumed to be foreshocks of the event at 13 11 45 of June 23. They were recorded only at Port Hardy, and distances to this station are shown in brackets after the time. 06 29 06 (188 km), 07 08 40 (204 km), 12 42 17 (192 km), and 13 08 48 (181 km).
- JUNE 23 at 13 11 45 U.T. Magnitude 4.0. Epicentre at 51.3°N, 129.8°W, west of Vancouver Island.

DOMINION OBSERVATORIES

JUNE 24 at 10 17 24 U.T. Magnitude 4.1. Epicentre at 51.0°N, 130.0°W, west of Vancouver Island.

JUNE 24 at 18 14 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.

JUNE 1 at 22 55 55 U.T. Magnitude 4.1. Epicentre at 51.0°N, 130.0°W, west of Vancouver Island.
APRIL 2 at 00 27 14 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 6 at 01 04 21 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 7 at 12 16 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 12 at 14 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 13 at 15 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 14 at 16 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 15 at 17 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 16 at 18 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 17 at 19 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 18 at 20 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 19 at 21 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 20 at 22 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 21 at 23 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 22 at 24 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 23 at 25 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 24 at 26 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 25 at 27 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 26 at 28 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 27 at 29 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 28 at 30 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 29 at 31 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.
APRIL 30 at 32 18 15 U.T. Magnitude 3.2. Epicentre at 49°36'N, 127°05'W, near Nootka Sound.

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1964



SEISMOLOGICAL SERIES
of the
DOMINION OBSERVATORY

1963-1

(Concluded)

Seismological Bulletin

July - December

1963

**Seismological Service
of Canada**

OTTAWA, CANADA

Department of Mines and Technical Surveys

OBSERVATORIES BRANCH

1966

SEISMOLOGICAL BULLETIN - 1963

DOMINION OBSERVATORIES

JULY-DECEMBER 1963

NOTES

Alert, N. W. T.		Mr. C. H. McCloughan in charge.
Banff, Alta.		Out of operation Sept. and most of Oct. Since polarity suspect, no first motions given in this bulletin.
Coppermine, N. W. T.		Station closed for repairs June 20 to Nov. 5.
Edmonton, Alta.		6 component (equivalent) standard Canadian station installed in April. Owned by the University of Alberta. Operated under Contract for the Dominion Observatory by the University of Alberta.
	OCT. 25	All L. P. 's lowered in sensitivity.
	NOV. 19	S. P. N. S. and S. P. E. W. lowered in sensitivity.
Frobisher, N. W. T.		6 component standard Canadian station installed in August. Owned by Dominion Observatory. Operated for Dominion Observatory by Radiosonde Division, Meteorological Branch, Department of Transport.
London, Ont.	JULY 2	Installed LPZ galvanometer.
Mould Bay, N. W. T.		Mr. G. Yada succeeded Mr. W. T. Piche as operator-in-charge in August.

Date of Calibration April 1963

LP - 2	APRIL 4	LP - 2	APRIL 5
LP - 3	APRIL 1	LP - 3	APRIL 4
LP - 4	APRIL 1	LP - 4	APRIL 4

DOMINION OBSERVATORIES

Ottawa, Ont.

LPZ was reversed in Polarity
from May 22 - Aug. 16.

SEPT.
OCT.

Calibrated all S. P. Seismographs.
Calibrated LPZ Columbia Seismo-
graph.

As of January, various calibrations
were made of Ottawa instruments
for test purposes.

Resolute, N. W. T.

Mr. W. Cannon succeeded Mr. O. J.
Jensen as operator-in-charge in
August.

Mr. G. Bavaria succeeded Mr.
Cannon as operator-in-charge in
October.

L. P. seismometers set to 30 second
period and all seismographs re-
calibrated in August.

Schefferville, Que.

L. P. seismometers set to 30 second
period and all seismographs re-
calibrated in Nov. and Dec.

Sept Iles, Que.

OCT. 23

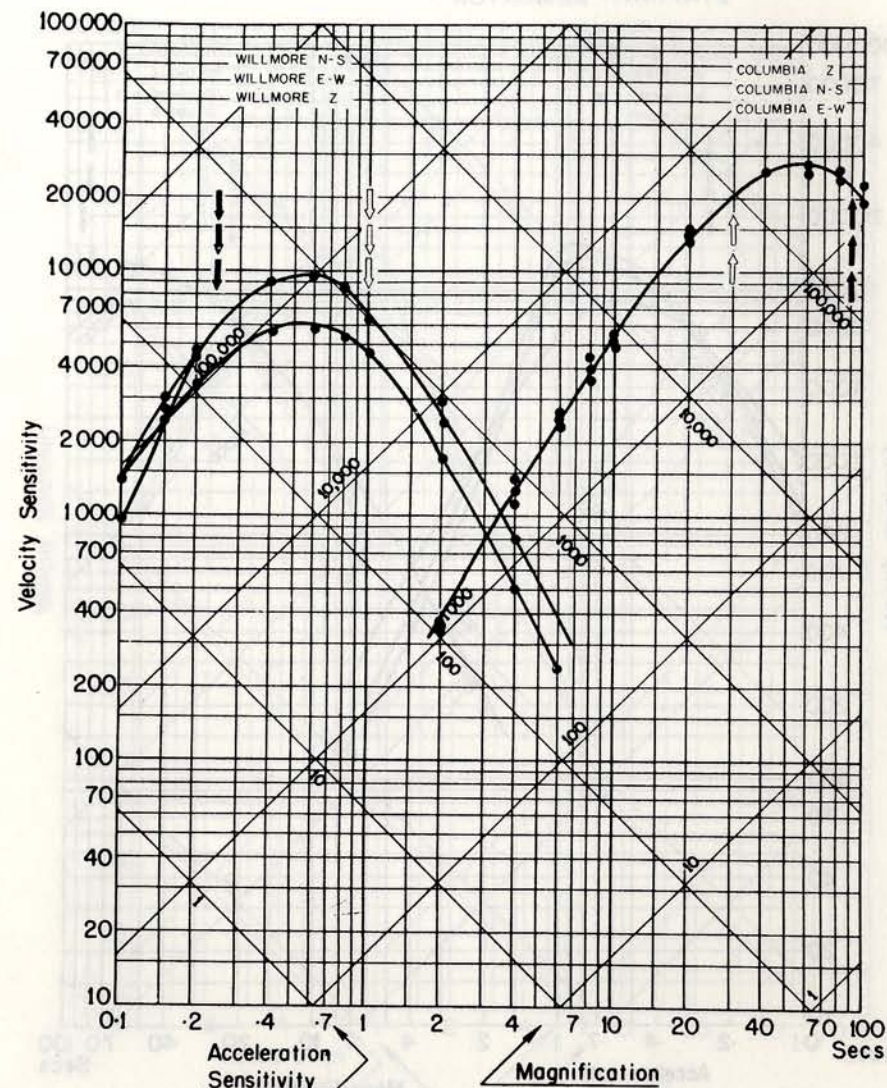
SPZ galvanometer broken.

Seven Falls, Que.

Intermittant operation Aug. -Dec.
due to technical difficulties.

CALIBRATION CURVES

STATION: COPPERMINE, N. W. T.



$\phi = 67^{\circ}50'N$ $\lambda = 115^{\circ}05'W$ Altitude 30.9M

Foundation Precambrian Rock

$T_s \uparrow$

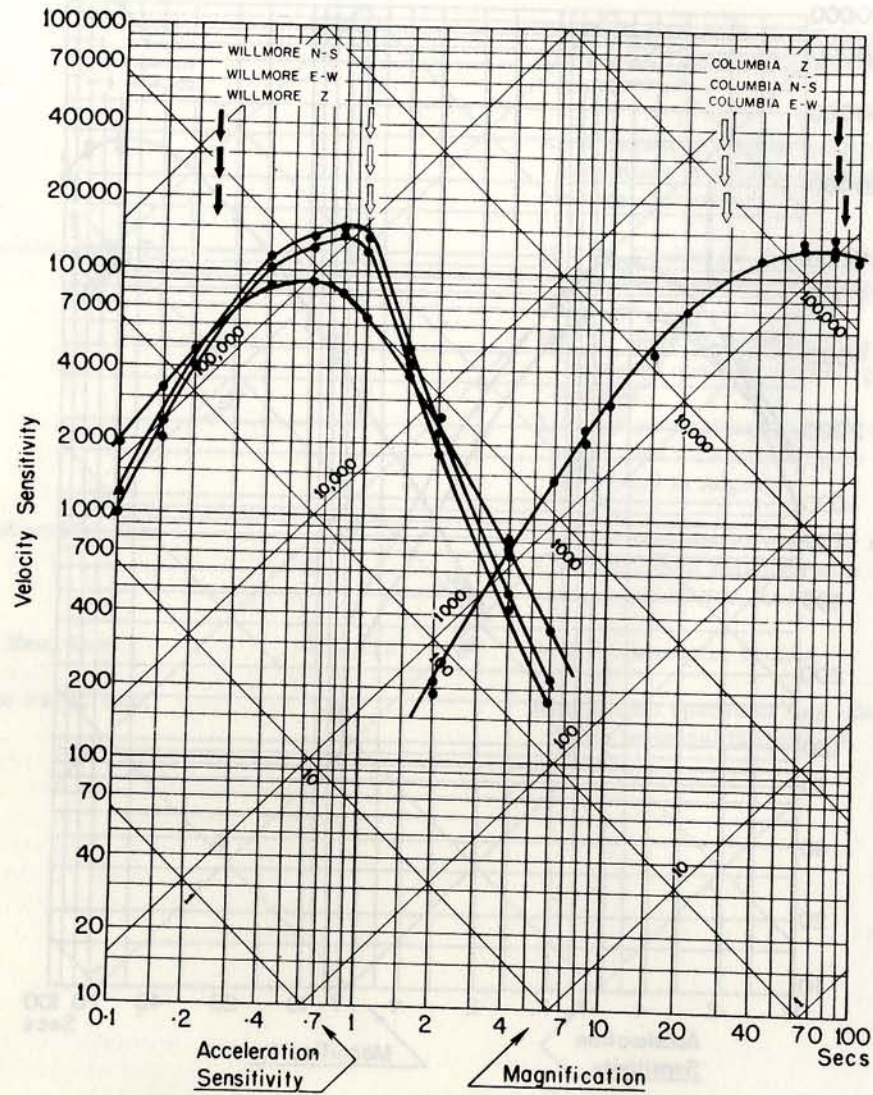
$T_g \uparrow$

Date of Calibration: April 1963

S. P. - Z.	APRIL 4	L. P. - Z.	APRIL 7
S. P. - N. S.	APRIL 1	L. P. - N. S.	APRIL 6
S. P. - E. W.	APRIL 1	L. P. - E. W.	APRIL 5

CALIBRATION CURVES

STATION: EDMONTON



$\phi = 53^{\circ}13.3'N$ $\lambda = 113^{\circ}21'W$ Altitude 730M

Foundation: Unconsolidated Shales, Edmonton Formation

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: April 1963.

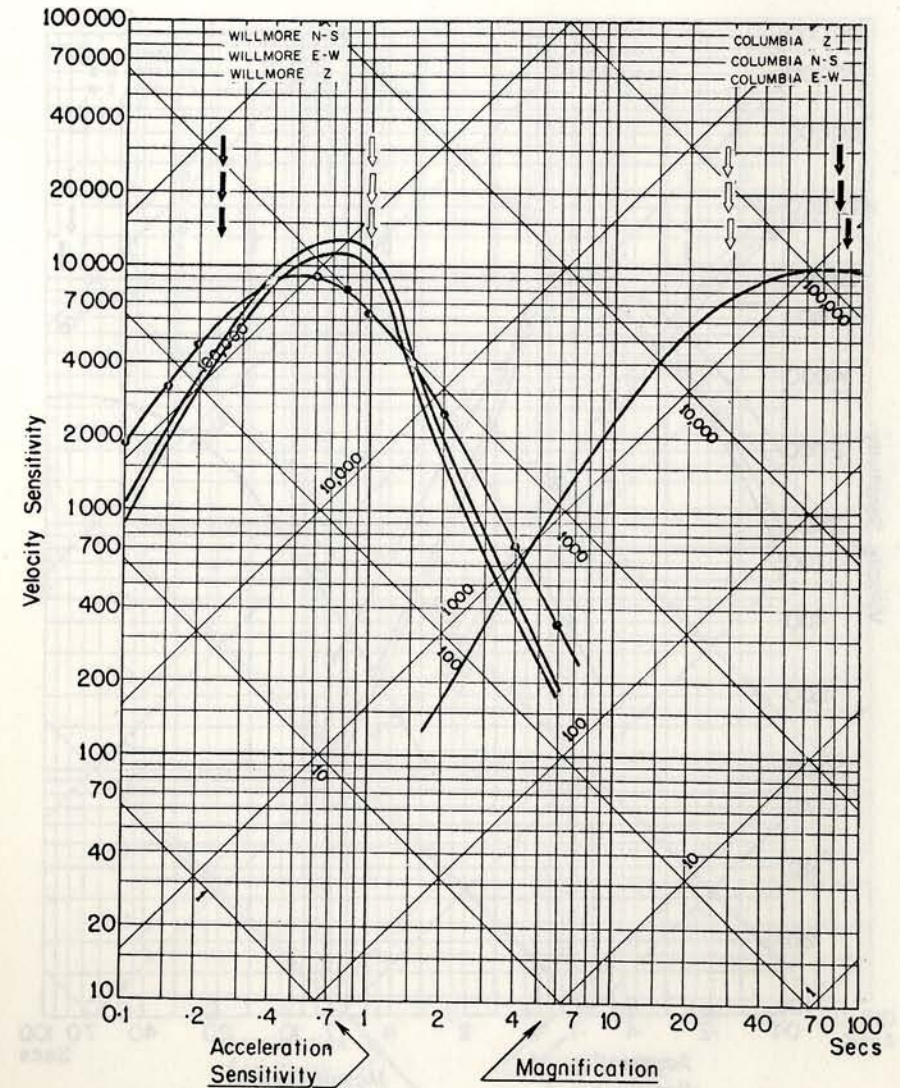
Willmore's

Columbia's

S. P. - Z.	APRIL 18	L. P. - Z.	APRIL 24
S. P. - N.S.	APRIL 18	L. P. - N.S.	APRIL 23
S. P. - E.W.	APRIL 19	L. P. - E.W.	APRIL 22

CALIBRATION CURVES

STATION: EDMONTON



$\phi = 53^{\circ}13.3'N$ $\lambda = 113^{\circ}21'W$ Altitude 730M

Foundation: Unconsolidated Shales, Edmonton Formation

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration:

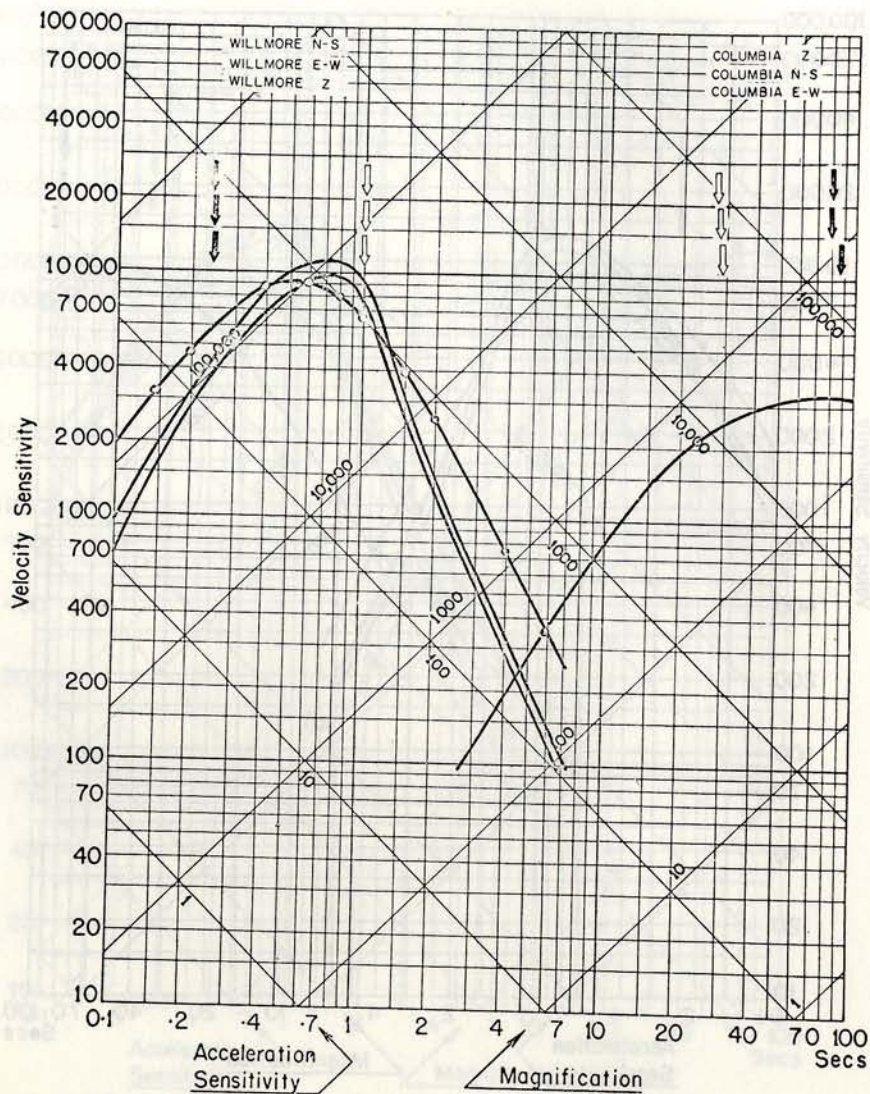
Willmore's

Columbia's

S. P. Z.	- April 18 - 1963	L. P. Z.	- May 20 - 1963
S. P. - N.S.	- May 20 - 1963	L. P. - N.S.	- May 20 - 1963
S. P. - E.W.	- May 20 - 1963	L. P. - E.W.	- May 20 - 1963

CALIBRATION CURVES

STATION: EDMONTON



$\phi = 53^{\circ}13.3'N$ $\lambda = 113^{\circ}21'W$ Altitude 730M

Foundation: Unconsolidated Shales, Edmonton Formation

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration:

Willmore's

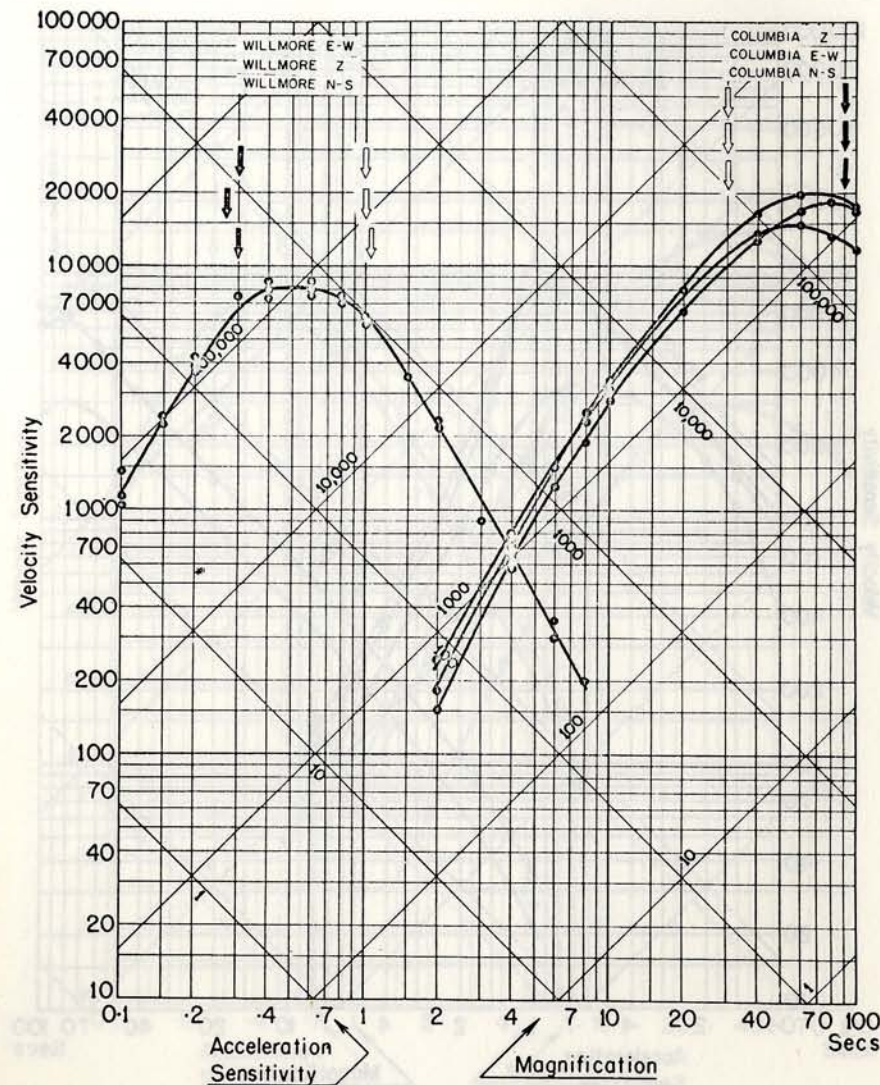
Columbia's

S. P. Z. - April 18 - 1963
 S. P. - N.S. - Nov. 20 - 1963
 S. P. - E.W. - Nov. 20 - 1963

L. P. Z. - Oct. 25 - 1963
 L. P. - N.S. - Oct. 25 - 1963
 L. P. - E.W. - Oct. 25 - 1963

CALIBRATION CURVES

STATION: FROBISHER, N.W.T.



$\phi = 63^{\circ}44'N$ $\lambda = 68^{\circ}28'W$ Altitude 45M

Foundation: Precambrian metamorphic rock

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration:

Willmore's

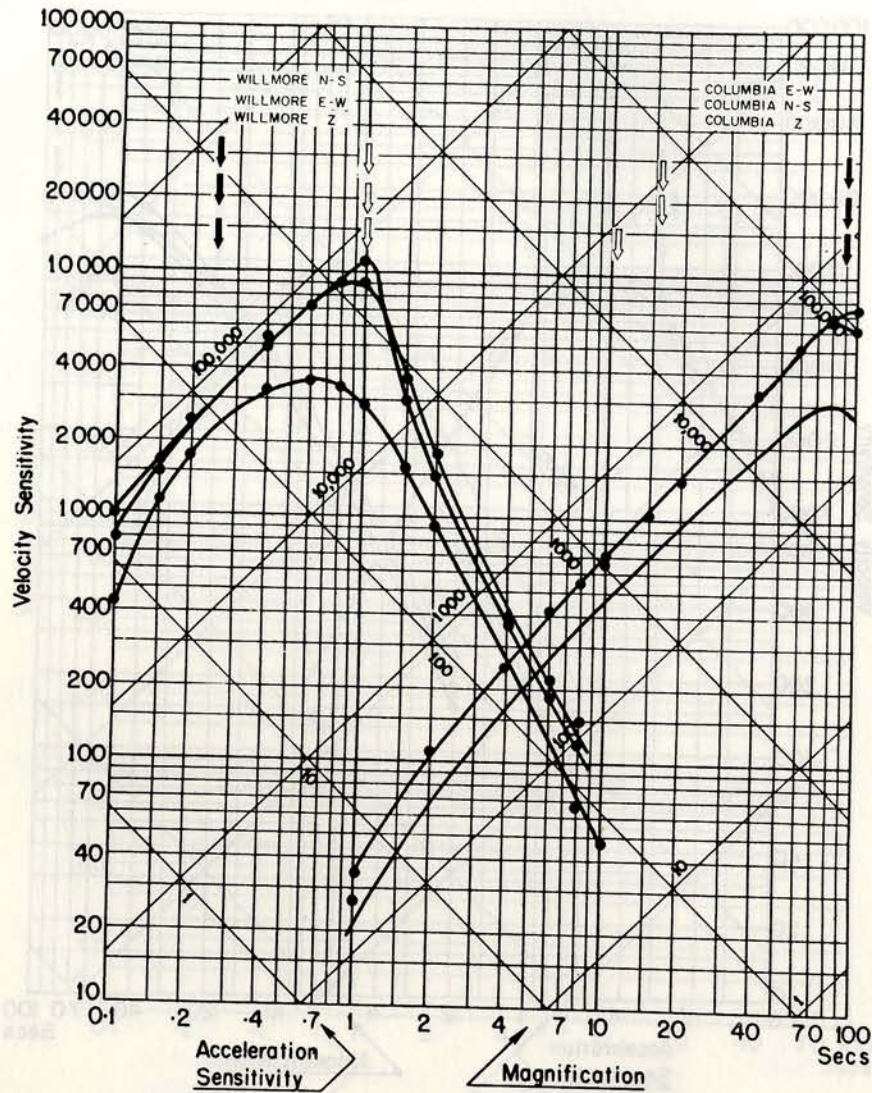
Columbia's

S. P. Z. - Aug. 17 - 1963
 S. P. - N.S. - Aug. 17 - 1963
 S. P. - E.W. - Aug. 17 - 1963

L. P. Z. - Aug. 17 - 1963
 L. P. - N.S. - Aug. 17 - 1963
 L. P. - E.W. - Aug. 17 - 1963

CALIBRATION CURVES

STATION: LONDON



$\phi = 43^{\circ}02.4'N$ $\lambda = 81^{\circ}11.0'W$ Altitude

Foundation: Devonian Limestone

$T_s \uparrow$

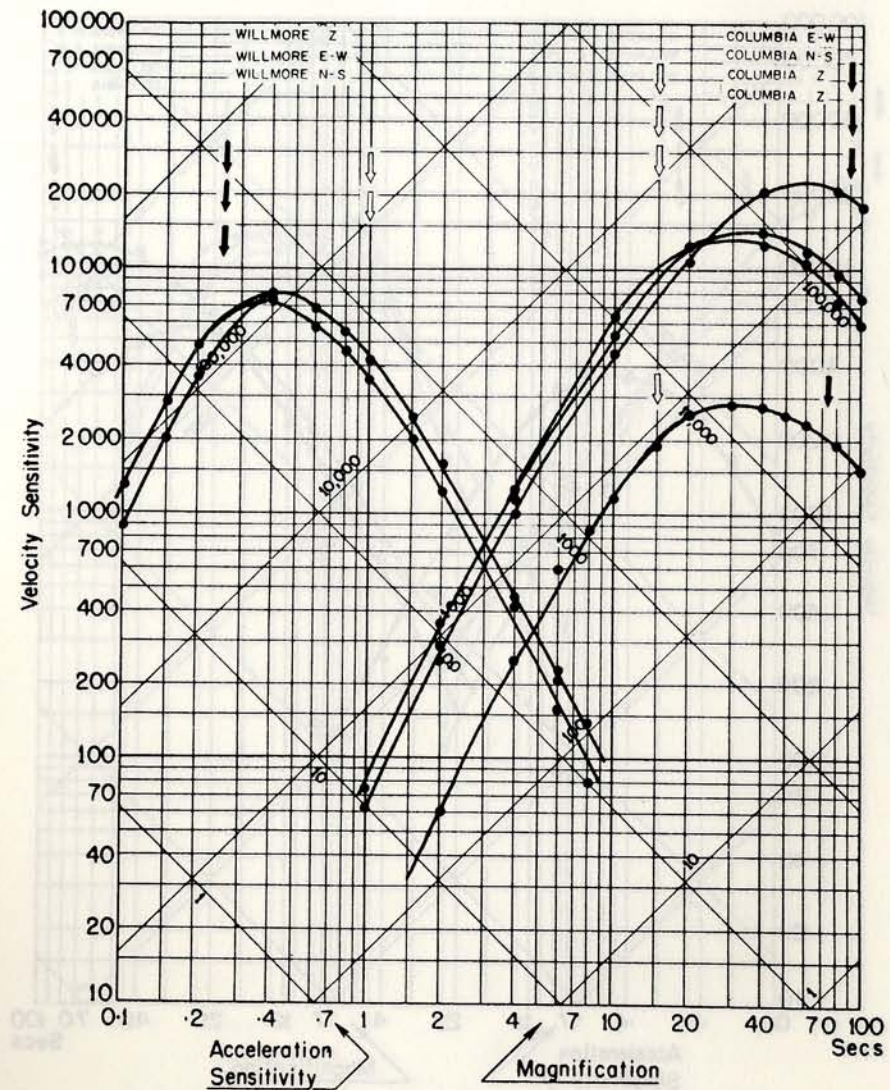
$T_g \uparrow$

Date of Calibration: 1961-62

S.P. - Z.	NOV. 10	L.P. - Z.	JULY 2 - 1963
	(at Ottawa)		installed
S.P.H. - N.S.	DEC. 11	S.P.H. - N.S.	DEC. 12
S.P.H. - E.W.	DEC. 11	S.P.H. - E.W.	DEC. 13

CALIBRATION CURVES

STATION: OTTAWA



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

Foundation: Boulder clay on limestone

$T_s \uparrow$

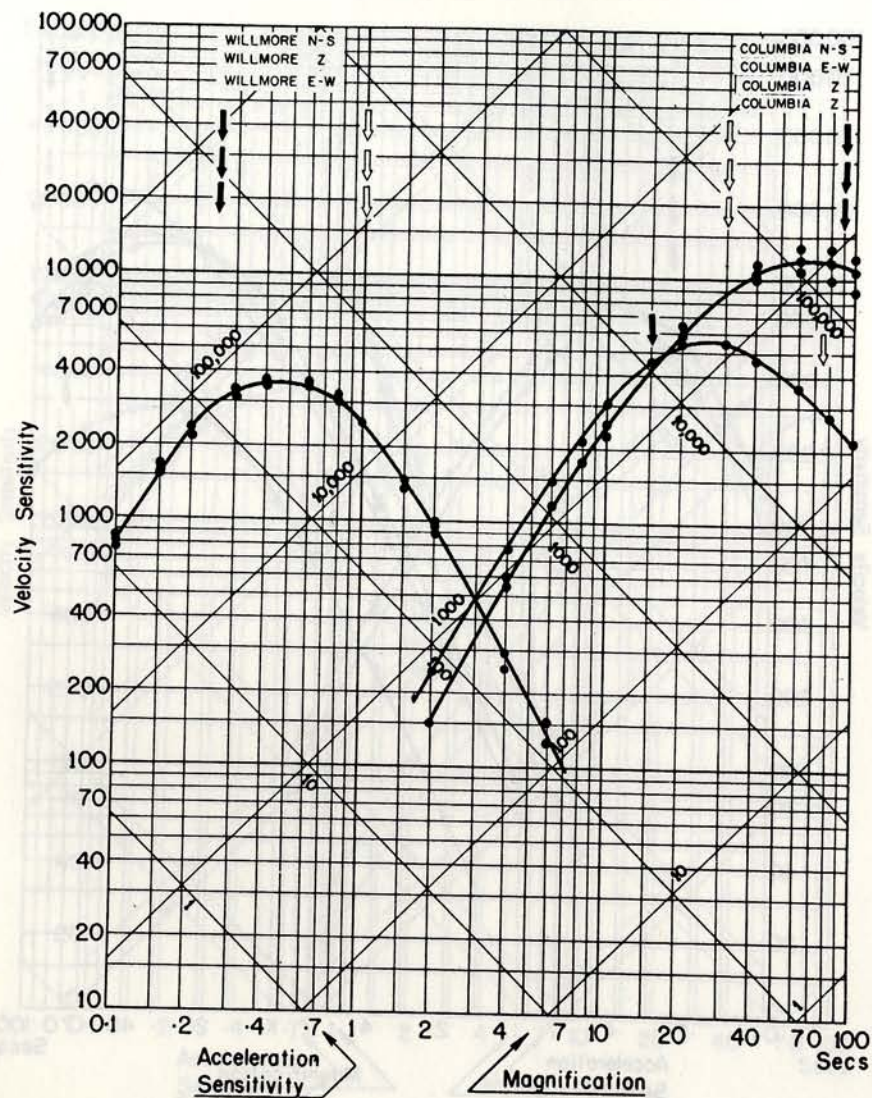
$T_g \uparrow$

Date of Calibration: 1961-63

S.P. - Z.	JAN. 22	L.P. - Z.	JUNE 1 - 1961
S.P. - N.S.	JAN. 30	L.P. - Z.	FEB. 1
S.P. - E.W.	JAN. 23	L.P. - N.S.	FEB. 1
		L.P. - E.W.	JAN. 31

CALIBRATION CURVES

STATION: OTTAWA



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

Foundation: Boulder clay on limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: 1963 - 1964

WILLMORE'S

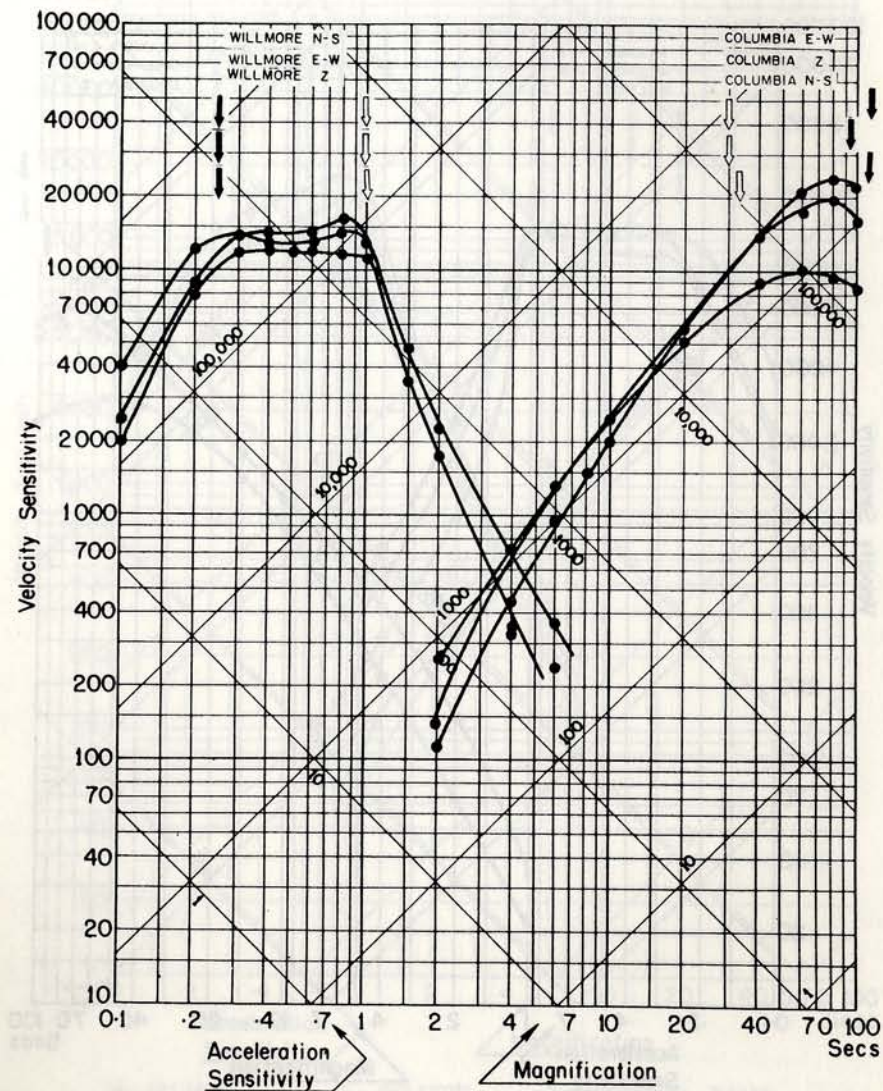
COLUMBIA'S

S. P. - Z. Sept. 27-63
 S. P. - N.S. Sept. 27-63
 S. P. - E.W. Sept. 27-63

L. P. - Z. Sept. 24-63
 L. P. - Z. Oct. 29-63
 L. P. - N.S. Feb. 7-64
 L. P. - E.W. Feb. 6-64

CALIBRATION CURVES

STATION: RESOLUTE, N.W.T.



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

Foundation: Early Palaeozoic limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: August 1963

WILLMORE'S

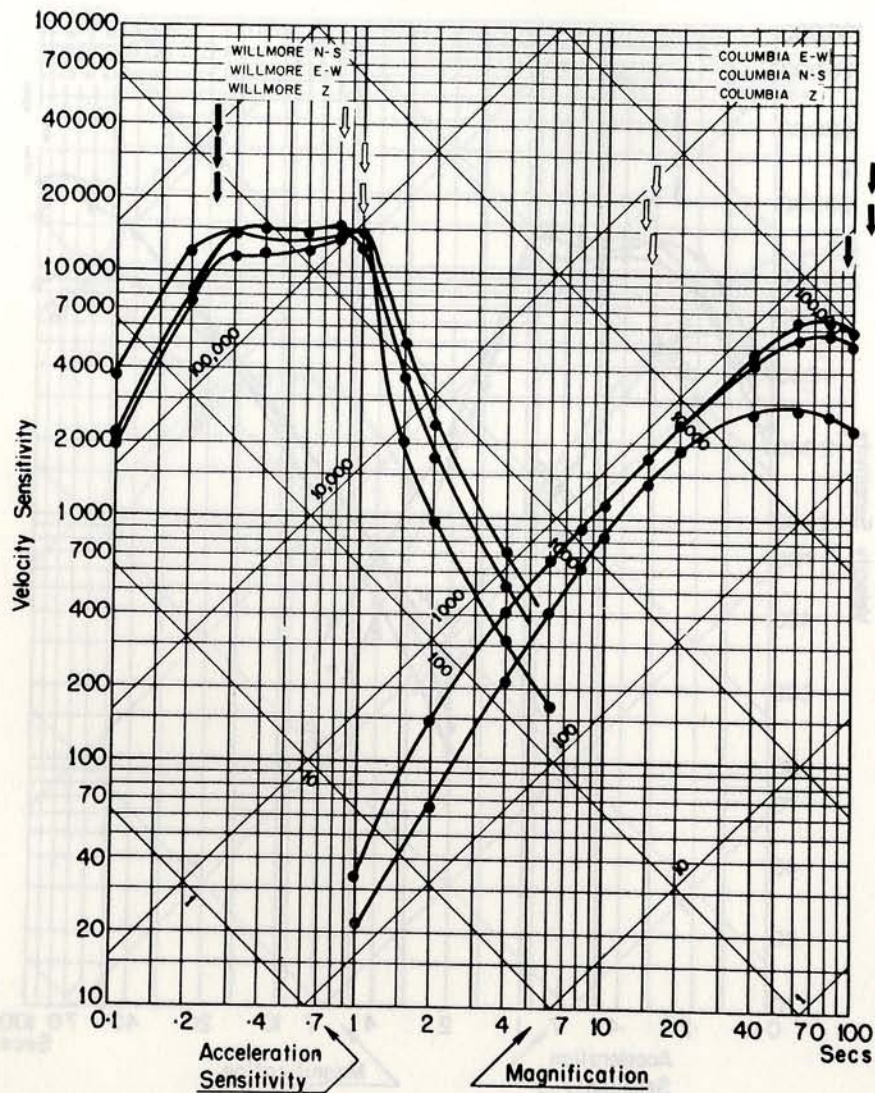
COLUMBIA'S

S. P. - Z. AUG. 10
 S. P. H. - N.S. AUG. 10
 S. P. H. - E.W. AUG. 10

L. P. Z. AUG. 13
 L. P. H. - N.S. AUG. 14
 L. P. H. - E.W. AUG. 14

CALIBRATION CURVES

STATION: RESOLUTE, N.W.T. (as found)



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

Foundation: Early Palaeozoic limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: August 1963

WILLMORE'S

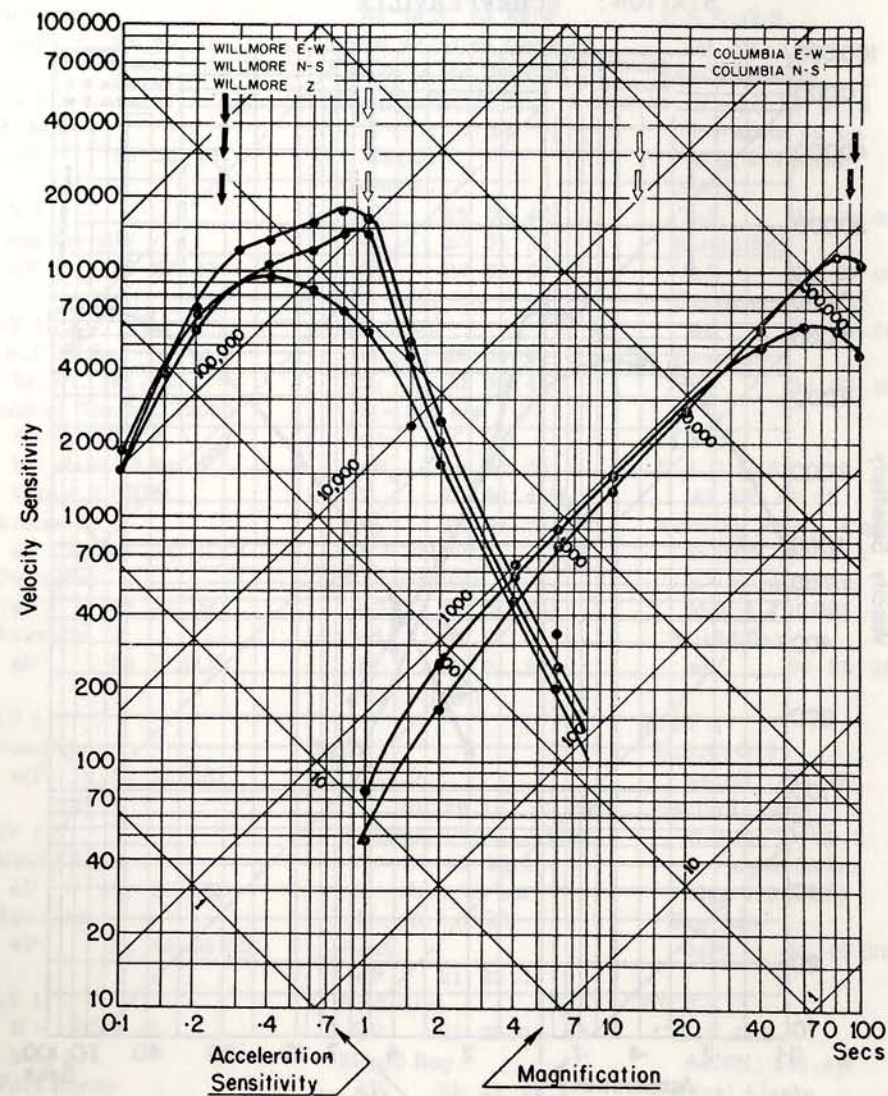
S.P. - Z. AUG. 10
S.P.H. - N.S. AUG. 10
S.P.H. - E.W. AUG. 10

COLUMBIA'S

L.P. - Z. AUG. 11
L.P.H. - N.S. AUG. 12
L.P.H. - E.W. AUG. 12

CALIBRATION CURVES

STATION: SCHEFFERVILLE (AS FOUND)



$\phi = 54^{\circ}49'N$ $\lambda = 66^{\circ}47'W$ Altitude 540M

Foundation: Precambrian foundation rocks.

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: 1963

WILLMORE'S

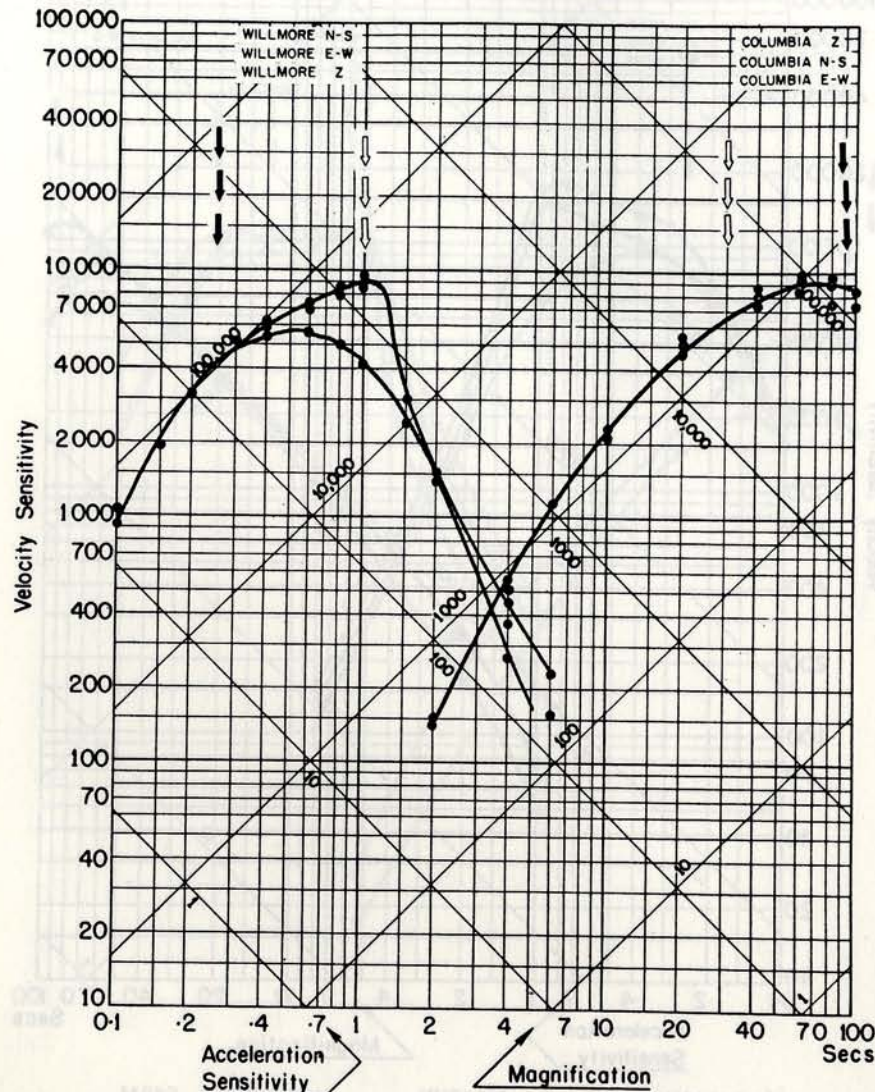
S.P. - Z. Nov. 28
S.P.H. - N.S. Nov. 28
S.P.H. - E.W. Nov. 29

COLUMBIA'S

L.P. - Z. Nov. 30
L.P.H. - N.S. Nov. 30
L.P.H. - E.W. Dec. 1

CALIBRATION CURVES

STATION: SCHEFFERVILLE



$\phi = 54^{\circ}49'N$ $\lambda = 66^{\circ}47'W$ Altitude 540M

Foundation: Precambrian foundation rocks.

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: 1963

WILLMORE'S

COLUMBIA'S

S. P. -Z	Nov. 28	L. P. -Z	Nov. 30
S. P. H. - N. S.	Nov. 28	L. P. H. - N. S.	Dec. 1
S. P. H. - E. W.	Nov. 29	L. P. H. - E. W.	Dec. 2

SEISMOLOGICAL BULLETIN - 1963

JULY 1 Resolute e(P) 03 00 45	JULY 1 42°34'N, 73°45'W About 20 miles south of Albany in the Hudson River Valley N.Y. H = 19 59 12 Mag 3.3 London eP ₁ 20 00 48 eS _n 20 01 36 S ₁ 20 01 59 D = 595 km	JULY 1 U.S.C.G.S. 46.5N, 153.6E Kurile Islands H = 22 39 57.8 h = about 69 km Mag 4.5 (CGS) Alert eP 22 48 46 Mould Bay eP 22 48 08 Penticton eP 22 49 08 Resolute eP 22 48 53
JULY 1 Resolute eP 03 28 10 c	JULY 1 U.S.C.G.S. 29.9N, 141.3E South of Honshu, Japan H = 09 20 12.5 h = about 75 km Mag 4.3 (CGS) Edmonton eP 09 31 47 c Penticton eP 09 31 38 Resolute eP 09 31 (13)	JULY 2 U.S.C.G.S. 43.9N, 85.2E Sinkiang Prov., China H = 00 15 22.4 h = about 39 km Mag 4.4 (CGS) Mould Bay eP 00 25 20
JULY 1 Schefferville eP 08 27 13	JULY 1 U.S.C.G.S. iP ₁ 20 00 04 d S ₁ 20 00 44 D = 325 km Ottawa eP ₁ 20 00 09 i 20 00 49 S ₁ 20 00 53 D = 355 km Scarborough eP ₁ 20 06 26 eS _n 20 01 05 S ₁ 20 01 23 D = 465 km	JULY 2 U.S.C.G.S. 46.3N, 153.4E Kurile Islands H = 01 39 19.3 h = about 33 km Mag 4.0 (CGS) Resolute e(P) 01 48 (20)
JULY 1 Resolute e(P) 10 33 (15)	JULY 1 U.S.C.G.S. 37.0N, 96.1E Tsinghai Prov., China H = 21 10 28.5 h = about 33 km Mag 5.3 (CGS) Banff eP 21 23 17 Edmonton eP 21 23 10 c Mould Bay eP 21 21 05.5 Penticton iP 21 23 20 c Resolute eP 21 21 29 c Schefferville eP 21 23 14 c	JULY 2 U.S.C.G.S. 64.0N, 148.4W Central Alaska H = 02 52 55.8 h = about 33 km Mag 4.0 (CGS) Edmonton ep 02 57 35 (c)
JULY 1 Mould Bay eP 11 39 38 Resolute eP 11 40 05 (d)	JULY 1 H = 13 54 40 Mag 2.4 Port Hardy iP ₁ 13 55 07.6 S ₁ 13 55 28.5 D = 171 km	

DOMINION OBSERVATORIES

Mould Bay
eP 02 56 32.5'
Resolute
eP 02 57 (33)

JULY 2
U.S.C.G.S.
7.8S, 109.0E
Java
H = 09 46 35.8
h = about 117 km
Mag 5.1 (CGS)
Edmonton
eP' 10 05 21 c

JULY 2
U.S.C.G.S.
45.7N, 149.1E
Kurile Islands Region
H = 15 03 09.6
h = about 33 km
Resolute
eP 15 12 20

JULY 2
U.S.C.G.S.
9.0N, 83.0W
Panama Costa Rica
Border
H = 18 05 33.7
h = about 64 km
Mag 4.2 (CGS)
Edmonton
eP 18 14 (25)
Mould Bay
eP 18 16 41
Penticton
eP 18 14 28
Resolute
eP 18 16 15

JULY 2
Edmonton
eP 19 38 (51)
Mould Bay
eP 19 38 32
Resolute
e(P) 19 39 (24)

JULY 2
U.S.C.G.S.
39.8N, 104.7W
Colorado
H = 08 02 54.1
h = about 15 km
Mag 4.6 (CGS)
Banff
e 08 10 04
Edmonton
eP 08 06 20
Penticton
e 08 10 03

JULY 2
U.S.C.G.S.
Edmonton
eP 22 49 (32)

JULY 2
H = 23 35 03
Mag 2.0
Penticton
eP 23 35 28.2
eS 23 35 47.6
D = 159 km

JULY 3
H = 00 43 51
Mag 2.1
Penticton
iP 00 44 12.0
eS 00 44 36.7
D = 162 km

JULY 3
Resolute
eP 01 12 11

JULY 3
U.S.C.G.S.
50.6N, 177.9W
Andreanof Islands,
Aleutian Islands
H = 02 16 11.7
h = about 33 km
Mag 4.3 (CGS)
Edmonton
eP 02 23 32(c)
Mould Bay
eP 02 22 (55)

JULY 3
U.S.C.G.S.
14.6N, 92.8W
Chiapas, Mexico
H = 09 13 30.7
h = about 72 km
Mag 4.0 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Edmonton
eP 09 21 14
Mould Bay
eP 09 23 52.5
Resolute
eP 09 23 (30)

JULY 3
H = 17 48 36
Mag 2.5
Port Hardy
iP 17 49 03.8
eS 17 49 24.7
D = 171 km

JULY 3
Mould Bay
eP 19 30 (26)

JULY 3
H = 21 58 23
Mag 2.0
Penticton
eP 21 58 49.5
eS 21 59 09.5
D = 164 km

JULY 4
H = 01 07 50
Mag 2.4
Penticton
iP 01 08 24.4
eS 01 08 51.8
D = 224 km

JULY 4
U.S.C.G.S.
12.8N, 88.7W
Near Coast of El Salvador
H = 01 43 20.8
h = about 55 km
Mag 4.1 (CGS)
Resolute
eP 01 53 34 c

JULY 4
U.S.C.G.S.
43.7N, 126.4 W
Off coast of Oregon
H = 05 50 49.5
h = about 33 km
Mag 4.4 (CGS)
Penticton
iP 05 52 37

JULY 4
U.S.C.G.S.
24.0N, 122.4E
Near east coast of
Formosa
H = 06 55 16.8
h = about 63 km
Mag 4.6 (CGS)
Edmonton
eP 07 08 08 c
Mould Bay
eP 07 06 41
Penticton
iP 07 08 06 d
Resolute
eP 07 07 13 (c)

JULY 4
Mould Bay
iP 10 43 20
Resolute
e(P) 10 43 53

JULY 4
U.S.C.G.S.
26.3S, 177.7W
Tonga Islands Region
H = 10 58 13.2
h = about 158 km
Mag 6 3/4 (PAS),
6 3/4 - 7 (BKS),
6.5 (CGS)
Banff
eP 11 11 16
Edmonton
eP 11 11 26 d

Halifax
iP' 11 16 55 d
London
eP' 11 16 30
Mould Bay
eP 11 12 (18)
eP' 11 16 22
Ottawa
eP 11 12 54(c)
eP' 11 16 37
Penticton
eP 11 10 (39)
Port Hardy
iP 11 10 48 d
Resolute
eP 11 12 (40)
iP' 11 16 32
Schefferville
eP' 11 16 48 d
Sept-Isles
eP' 11 16 50
Seven Falls
eP' 11 16 44
Victoria
eP 11 10 51 d

JULY 4
U.S.C.G.S.
22.9S, 175.6W
Tonga Islands Region
H = 14 16 51.1
h = about 33 km
Mag 4.8 (CGS)
Edmonton
eP 14 30 (02)

JULY 4
Mould Bay
eP 17 28 41
i 17 28 59

JULY 4
H = 19 32 35
Mag 2.2

DOMINION OBSERVATORIES

Penticton
 eP 19 33 00.7
 eS 19 33 20.3
 D = 160 km

JULY 4
 U.S.C.G.S.
 18.5S, 12.6W
 St. Helena Island Region
 H = 22 56 15.7
 h = about 33 km
 Mag 5 1/4 - 5 1/2 (PAL)
 5.6 (CGS)

London
 eP 23 09 03

Ottawa
 eP 23 08 52

JULY 5
 U.S.C.G.S.
 50.4N, 90.6E
 Outer Mongolia
 H = 03 29 36.1
 h = about 33 km
 Mag 4.5 (CGS)

Mould Bay
 eP 03 38 44 c

Resolute
 eP 03 39 06

JULY 5
 U.S.C.G.S.
 11.6S, 77.5W
 Peru
 H = 05 49 13.4
 h = about 55 km
 Mag 5.8 (CGS)

Alert
 eP 06 01 27 c

Edmonton
 eP 05 59 29 d

London
 iP 05 57 35 c

Mould Bay
 iP 06 01 13 d
 S 06 11 38

Ottawa
 eP 05 57 52 (c)

Penticton
 eP 05 59 27

Resolute
 eP 06 00 52

Scarborough
 iP 05 57 41 (c)

Schefferville
 eP 05 59 00 c

Sept-Isles
 eP 05 58 31

Seven Falls
 eP 05 58 08

Victoria
 eP 05 59 36

JULY 5
 U.S.C.G.S.
 27.7N, 92.1E
 Assam, India
 H = 07 19 15.8
 h = about 33 km
 Mag 4.2 (CGS)

Mould Bay
 eP 07 30 51

JULY 5
 U.S.C.G.S.
 31.7N, 142.4E
 South of Honshu, Japan
 H = 08 35 10.9
 h = about 30 km
 Mag 4.2 (CGS)

Mould Bay
 eP 08 45 25.5

JULY 5
 Mould Bay
 eP 11 24 36

JULY 5
 U.S.C.G.S.
 37.2N, 73.0E

Hindu Kush
 H = 13 11 37.5
 h = about 111 km
 Mag 5.0 (CGS)

Edmonton
 iP 13 24 26 d

Mould Bay
 iP 13 22 17 d

Resolute
 eP 13 22 27 d

JULY 5
 Mould Bay
 eP 14 35 53

JULY 5
 U.S.C.G.S.
 3.2S, 77.8W
 Peru-Ecuador Border
 H = 14 29 24.8
 h = about 65 km
 Mag 4.2 (CGS)

Mould Bay
 eP 14 41 43.5c

JULY 5
 U.S.C.G.S.
 12.8N, 88.9W
 Near coast of El Salvador
 H = 14 40 54.7
 h = about 85 km
 Mag 4.1 (CGS)

Edmonton
 eP 14 49 (01)

Mould Bay
 eP 14 51 28.5

Resolute
 eP 14 51 06

SEISMOLOGICAL BULLETIN - 1963

JULY 5
 U.S.C.G.S.
 36.7N, 73.0E

Hindu Kush
 H = 16 27 27.6
 h = about 193 km
 Mag 4.3 (CGS)

Mould Bay
 iP 16 38 01 d

JULY 5
 H = 19 13 27
 Mag 2.5
 Penticton
 iP 19 13 54.7
 iS 19 14 15.5
 D = 170 km

JULY 5
 H = 20 30 34
 Mag 2.0
 Penticton
 iP 20 30 46.7
 iS 20 30 56.6
 D = 87 km

JULY 5
 H = 22 33 02
 Mag 2.3
 Penticton
 eP 22 33 27.6
 eS 22 33 47.0
 D = 159 km

JULY 5
 Mould Bay
 eP 23 27 33

JULY 6
 U.S.C.G.S.
 30.3N, 99.8E
 Sikang Province, China
 H = 01 01 28.7
 h = about 33 km
 Mag 4.9 (CGS)

Mould Bay
 eP 01 12 44

JULY 6
 Resolute
 e(P) 01 47 (26)

JULY 6
 Mould Bay
 eP 06 13 33

JULY 6
 66.2N, 133.6W
 Boundary of Yukon Territory and N.W.T., about 75 miles SSE of Fort McPherson N.W.T.
 H = 10 26 20.5
 Mag 4.5
 Edmonton
 eP 10 30 (10)

Mould Bay
 P_n 10 28 53 c
 S_n 10 30 53
 D = 1215 km

Schefferville
 e 10 43 27

Resolute
 P_n 10 29 52
 S_n 10 32 34
 eL_g 10 34 23
 D = 1670 km

JULY 6
 U.S.C.G.S.
 28.0N, 57.6E
 Southeastern Iran
 H = 13 34 04
 h = about 80 km

Alert
 eP 13 44 45 c

Mould Bay
 iP 13 44 44 (d)

JULY 6
 U.S.C.G.S.
 11.6N, 142.7E

Mariana Islands Region
 H = 17 49 54.5
 h = about 26 km
 Mag 4.6 (CGS)

Alert
 eP 18 02 31 d

Mould Bay
 eP 18 02 06

Penticton
 iP 18 02 31 d

Resolute
 eP 18 02 39 (d)

Victoria
 eP 18 02 23

JULY 6
 H = 21 10 15
 Mag = 2.4
 Penticton
 eP 21 10 40.4
 eS 21 10 59.8
 D = 159 km

JULY 6
 U.S.C.G.S.
 37.7N, 141.7E
 Near east coast of Honshu, Japan
 H = 22 22 22.9
 h = about 34 km
 Mag 4.3 (CGS)

Resolute
 eP 22 32 40 (c)

JULY 7
 U.S.C.G.S.
 17.9N, 145.6E

Mariana Islands Region
 H = 10 17 24.4
 h = about 137 km
 Mag 4.7 (CGS)

Alert
 eP 10 29 15 c

DOMINION OBSERVATORIES

Edmonton eP 10 29 32 c	Edmonton eP 19 23 (54)	Penticton eP 04 21 19
Mould Bay iP 10 28 46 c	London eP 19 25 50 (d)	Port Hardy eP 04 21 30
Penticton eP 10 29 18	Mould Bay eP 19 27 (51)	
Port Hardy eP 10 28 48	Penticton eP 19 23 17	JULY 8
Resolute eP 10 29 21	Port Hardy eP 19 23 26	U.S.C.G.S.
Victoria eP 10 29 06	Resolute eP 19 27 (42)	26.7N, 55.7E
	Scarborough eP 19 26 02	Near south coast of Iran
JULY 7	Schefferville eP 19 27 22	H = 08 58 04.8
Edmonton eP 15 23 25	Victoria eP 19 23 34	h = about 33 km
		Mag 4.8 (CGS)
JULY 7		Mould Bay eP 09 09 57
74°20'N, 95°20'W		
Barrow Strait N.W.T.	JULY 7	JULY 8
H = 18 28 01	Resolute	Resolute
Mag 4.0	e(P) 21 42 (25)	e(P) 10 14 55
Alert		
eP _n 18 30 26	JULY 8	JULY 8
eS _n 18 32 17	U.S.C.G.S.	U.S.C.G.S.
D = 1140 km	57.0N, 134.5W	0.3N, 17.8W
Mould Bay	Southeastern Alaska	Mid Atlantic Ocean
iP _n 18 29 33 d	H = 00 15 05.9	H = 11 05 07.5
eS _n 18 30 43	h = about 28 km	h = about 33 km
Lg 18 31 21	Mag 3.7 (CGS)	Mag 4.9 (CGS)
D = 710 km	Edmonton	Edmonton
Resolute	eP 00 18 (11)	eP 11 18 (18)
P ₁ 18 28 09.4 d,s,w	Mould Bay	Mould Bay
S ₁ 18 28 15.8	eP 00 19 (50)	eP 11 18 (19)
D = 52 km		Resolute
		eP 11 17 (50)
		Schefferville
		eP 11 16 (05)
JULY 7	JULY 8	JULY 8
Resolute	U.S.C.G.S.	U.S.C.G.S.
e(P) 18 52 (44)	40.8N, 125.8W	57.4N, 154.0W
	Off coast of Northern	Kodiak Island, Alaska
JULY 7	California	H = 14 12 30.5
U.S.C.G.S.	H = 04 19 08.4	h = about 30 km
39.6N, 111.9W	h = about 33 km	Mag 4.6 (CGS)
Central Utah	Mag 4.7 (CGS)	Edmonton
H = 19 20 42.3	Edmonton	eP 14 17 37
h = about 33 km	eP 04 22 (36)	Mould Bay
Mag 4.9 (CGS)		eP 14 17 32

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Resolute eP 14 18 19	Victoria iP 17 54 42 c	JULY 9
JULY 8	JULY 8	U.S.C.G.S.
U.S.C.G.S.	U.S.C.G.S.	22.0N, 145.7E
35.8N, 69.7E	6.8N, 73.0W	Volcano Islands Region
Hindu Kush Region	Colombia	H = 04 09 28.6
H = 15 29 33.5	H = 21 02 56.9	h = about 33 km
h = about 131 km	h = about 166 km	Mag 4.7 (CGS)
Mould Bay	Mag 4.0 (CGS)	Edmonton
eP 15 40 19.5	Mould Bay	eP 04 21 (30)
	eP 21 14 15	Mould Bay
		eP 04 20 39
JULY 8	JULY 8	JULY 9
U.S.C.G.S.	U.S.C.G.S.	U.S.C.G.S.
36.6N, 28.0E	H = 22 30 30	15.2N, 94.0W
Near south coast of Turkey	Mag 2.2	Mexico-Guatemala
H = 16 02 26.8	Penticton	Border
h = about 30 km	eP 22 30 55.4	H = 04 20 50.6
Mag 4.7 (CGS)	eS 22 31 15.0	h = about 33 km
Edmonton	D = 161 km	Mag 4.5 (CGS)
eP 16 14 57	JULY 9	Edmonton
Mould Bay	Edmonton	eP 04 28 31(d)
eP 16 13 08	eP 00 53 38 (d)	Penticton
		eP 04 28 26
JULY 8	JULY 9	Resolute
U.S.C.G.S.	U.S.C.G.S.	eP 04 30 51
65.8N, 153.9W	46.3N, 153.7E	Schefferville
Central Alaska	Kurile Islands Region	eP 04 29 02 d
H = 17 49 30.9	H = 03 04 37.4	JULY 9
h = about 33 km	h = about 33 km	Penticton
Mag 4.8 (CGS)	Mag 4.8 (CGS)	iP 04 32 19
Alert	Alert	JULY 9
eP 17 55 01	eP 03 13 31	Mould Bay
Edmonton	Edmonton	eP 05 54 23
eP 17 54 39 c	eP 03 14 (12)	JULY 9
Mould Bay	Mould Bay	U.S.C.G.S.
eP 17 53 00	eP 03 12 (49)	8.5N, 83.0W
i 17 55 (41)	Penticton	Costa Rica-Panama
Penticton	eP 03 14 08	Border
eP 17 54 47	Resolute	H = 09 24 33.3
Port Hardy	eP 03 13 38	h = about 31 km
eP 17 54 06 c	JULY 9	Mag 5.1 (CGS)
Resolute	U.S.C.G.S.	
eP 17 54 12		
Schefferville		
eP 17 57 13		

DOMINION OBSERVATORIES

Alert i 09 36 10	JULY 9 Mould Bay eP 13 17 18 i 13 18 16	JULY 9 U.S.C.G.S. 40.1N, 111.3W Central Utah H = 20 25 28.8 h = about 33 km Mag 4.1 (CGS) Penticton eP 20 28 05
Banff eP 09 33 26	JULY 9 U.S.C.G.S. 60.0N, 154.5W Southern Alaska H = 17 22 54.7 h = about 60 km Mag 4.4 (CGS) Mould Bay eP 17 27 26 i 17 31 38	JULY 9 H = 21 05 07 Mag 2.4 Penticton eP 21 05 32.2 iS 21 05 51.6 D = 159 km
Edmonton eP 09 33 32 d	JULY 9 U.S.C.G.S. 24.2N, 122.4E Near east coast of Formosa H = 17 34 33.2 h = about 33 km Mag 4.8 (CGS) Edmonton eP 17 47 27 c	JULY 9 H = 23 36 25 Mag 2.7 Penticton iP 23 36 52.4 iS 23 37 13.0 D = 168 km
Halifax eP 09 32 05	JULY 9 U.S.C.G.S. 29.1S, 68.1W La Rioja Prov., Argentina H = 18 56 12.9 h = about 33 km Mag 4.8 (CGS) Edmonton eP 19 09 13 (d)	JULY 9 H = 02 11 58.3 h = about 33 km Mag 4.9 (CGS) Mould Bay eP 02 22 50 c
London (e)P 09 31 20 c	JULY 9 U.S.C.G.S. 46.3N, 153.9E Kurile Islands Region H = 03 14 41.8 h = about 33 km Mag 4.8 (CGS)	JULY 10 Mould Bay eP 03 03 55
Mould Bay eP 09 35 45	JULY 9 U.S.C.G.S. 75.9N, 107.3W Melville Island N.W.T. H = 10 56 58.5 h = 24 km Mag 2.9 Mould Bay P _n 10 57 41.5 P ₁ 10 57 47.5 S _n 10 58 15 i 10 58 23 S ₁ 10 58 27.8 D = 325 km	JULY 10 U.S.C.G.S. 36.5N, 71.8 E Hindu Kush H = 02 11 58.3 h = about 33 km Mag 4.9 (CGS) Mould Bay eP 02 22 50 c
Ottawa eP 09 31 45	JULY 9 U.S.C.G.S. 46.3N, 152.9E Kurile Islands Region H = 05 22 57.1 h = about 33 km Mag 5.6 (CGS)	JULY 10 U.S.C.G.S. 46.3N, 152.9E Kurile Islands Region H = 05 22 57.1 h = about 33 km Mag 5.6 (CGS)
Penticton eP 09 33 33	JULY 9 U.S.C.G.S. 46.3N, 154.0E Kurile Islands Region H = 09 20 39.0 h = about 33 km Mag 3.9 (CGS) Mould Bay eP 09 28 (50)	JULY 10 U.S.C.G.S. 46.3N, 154.0E Kurile Islands Region H = 09 20 39.0 h = about 33 km Mag 3.9 (CGS)
Port Hardy eP 09 34 10 c	JULY 9 U.S.C.G.S. 13.4N, 44.9W North Atlantic Ocean H = 09 49 29.6 h = about 37 km Mag 4.9 (CGS)	JULY 10 U.S.C.G.S. 13.4N, 44.9W North Atlantic Ocean H = 09 49 29.6 h = about 37 km Mag 4.9 (CGS)
Resolute eP 09 35 20 d	JULY 9 U.S.C.G.S. 8.8N, 82.9W Panama H = 18 22 47.9 h = about 51 km Mag 4.3 (CGS) Edmonton eP 18 31 (43)	JULY 10 U.S.C.G.S. 8.8N, 82.9W Panama H = 18 22 47.9 h = about 51 km Mag 4.3 (CGS)
Schefferville eP 09 33 10	JULY 9 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Victoria iP 09 33 44 d	JULY 9 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d
JULY 9 75.9N, 107.3W Melville Island N.W.T. H = 10 56 58.5 h = 24 km Mag 2.9 Mould Bay P _n 10 57 41.5 P ₁ 10 57 47.5 S _n 10 58 15 i 10 58 23 S ₁ 10 58 27.8 D = 325 km	JULY 9 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Resolute P _n 10 57 52.5 P ₁ 10 58 03.5 S _n 10 58 33 S ₁ 10 58 49 D = 380 km	JULY 9 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d

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Alert eP 03 23 35	JULY 10 U.S.C.G.S. 39.8N, 23.9E Aegean Sea H = 07 19 41 h = about 127 km Mag 4.2 (CGS) Edmonton eP 07 31 39 (c)	JULY 10 U.S.C.G.S. 16.3S, 72.2W Southern Peru H = 11 47 35.1 h = about 90 km Mag 4.1 (CGS) Edmonton eP 11 59 23(d)
Edmonton eP 03 24 22 (c)	JULY 10 U.S.C.G.S. 46.3N, 154.0E Kurile Islands Region H = 09 20 39.0 h = about 33 km Mag 3.9 (CGS) Mould Bay eP 09 28 (50)	JULY 10 U.S.C.G.S. 46.1N, 153.9E Kurile Islands Region H = 13 54 22.6 h = about 33 km Mag 4.8 (CGS) Edmonton eP 14 04 02
Mould Bay eP 03 22 55 c	JULY 10 U.S.C.G.S. 13.4N, 44.9W North Atlantic Ocean H = 09 49 29.6 h = about 37 km Mag 4.9 (CGS)	JULY 10 U.S.C.G.S. 13.4N, 44.9W North Atlantic Ocean H = 09 49 29.6 h = about 37 km Mag 4.9 (CGS)
Penticton eP 03 24 15	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Resolute eP 03 23 43 (c)	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d
JULY 10 U.S.C.G.S. 46.3N, 152.9E Kurile Islands Region H = 05 22 57.1 h = about 33 km Mag 5.6 (CGS)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Alert eP 05 31 50 c	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d
Banff eP 05 32 39	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Edmonton eP 05 32 37 c	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d
Halifax iP 05 35 36 d	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
London iP 05 34 59 c	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d
Mould Bay eP 05 31 09.5 c	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Ottawa eP 05 34 59	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d
Penticton eP 05 32 29	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Port Hardy iP 05 31 55 c	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d
Resolute eP 05 31 58 (c)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Schefferville eP 05 34 30	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d
Seven Falls eP 05 35 01	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)	JULY 10 U.S.C.G.S. 10 00 36 d Banff eP 10 00 23 Edmonton eP 10 00 16 (d)
Victoria iP 05 32 19 c	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d	JULY 10 U.S.C.G.S. 10 00 59 d Penticton iP 10 00 38 d Port Hardy eP 10 01 06 Resolute eP 10 00 (20) Schefferville eP 09 57 40 d Victoria iP 10 00 53 d

DOMINION OBSERVATORIES

JULY 10
Mould Bay
eP 19 24 17

JULY 10
U.S. C. G. S.
19.2N, 145.2E
Mariana Islands Region
H = 19 52 19.4
h = about 171 km
Mag 5.4 (CGS)
Alert
eP 20 03 57
Banff
eP 20 04 15
Edmonton
iP 20 04 19 d
Mould Bay
iP 20 03 30 d
Penticton
iP 20 04 05 d
Port Hardy
iP 20 03 36 d
Resolute
iP 20 04 06 d
Victoria
iP 20 03 53 d

JULY 10
Mould Bay
eP 21 35 59

JULY 10
H = 22 38 22
Mag 1.9
Penticton
eP 22 38 57.4
eS 22 39 16.8
D = 159 km

JULY 10
U.S. C. G. S.
8.5N, 83.0W
Panama-Cost Rica Border
H = 22 49 37.5
h = about 48 km
Mag 4.1 (CGS)

Mould Bay
eP 23 00 49

JULY 10
H = 23 06 33
Mag 1.9
Penticton
iP 23 06 44.0
eS 23 06 52.1
D = 66 km

JULY 11
Mould Bay
eP 05 17 49

JULY 11
Mould Bay
eP 08 16 28

JULY 11
U.S. C. G. S.
16.6N, 99.1W
Near coast of Oaxaca,
Mexico
H = 13 20 13.1
h = about 33 km
Mag 4.5 (CGS)
Edmonton
eP 13 27 31
Mould Bay
eP 13 30 22
Penticton
iP 13 27 19 d

JULY 11
U.S. C. G. S.
6.8N, 72.9W
Colombia
H = 14 18 29.5
h = about 164 km
Mag 4.0 (CGS)
Mould Bay
eP 14 29 48 d
i 14 30 32

JULY 11
Mould Bay
eP 16 36 10

Resolute
e(P) 16 36 (57)

JULY 11
Mould Bay
eP 18 10 28

JULY 11
Mould Bay
eP 22 24 38

JULY 11
H = 22 54 18
Mag 1.8
Penticton
eP 22 54 44.0
iS 22 55 03.6
D = 161 km

JULY 12
Mould Bay
eP 02 13 07

JULY 12
Mould Bay
eP 04 01 23 d

JULY 12
Mould Bay
eP 06 13 31 c

JULY 12
U.S. C. G. S.
7.0N, 73.2W
Colombia
H = 06 43 51.5
h = about 127 km
Mag 4.5 (CGS)
Edmonton
iP 06 53 21 d
Mould Bay
eP 06 55 12 d
i 07 00 25

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JULY 12
H = 06 54 41
Mag 2.8
Port Hardy
iP 06 55 09.2
eS 06 55 30.8
D = 175 km

JULY 12
U.S. C. G. S.
17.9S, 178.5W
Fiji Islands
H = 07 55 02.3
h = about 550 km
Mag 4.6 (CGS)
Edmonton
eP 08 07 03

JULY 12
50°40'N, 129°55'W
West of Port Hardy
H = 12 23 23
Mag 4.6
Alberni
eP 12 24 17
D = 388 km
Edmonton
eP 12 26 (01)
Mould Bay
eP 12 29 02
Penticton
eP 12 25 03.5
D = 774 km
Port Hardy
iP 12 23 50.8
iS 12 24 12.3
D = 176 km
Victoria
eP 12 24 35
eS 12 25 24
D = 536 km
Yellowknife
eP 12 27 00

JULY 12
50°35'N, 130°00'W
West of Port Hardy
H = 12 52 35
Mag 4.5
Alberni
eP 12 55 30.5
D = 398 km
Edmonton
eP 12 55 (13)
Mould Bay
eP 12 58 15.5
Penticton
eP 12 54 12.0
D = 779 km
Port Hardy
iP 12 53 04.1
eS 12 53 26.3
D = 182 km
Victoria
eP 12 55 40
D = 530 km
Yellowknife
eP 12 56 07

JULY 12
U.S. C. G. S.
50.3N, 129.6W
Near coast of Vancouver
Island
H = 14 03 38.3
h = about 33 km
Mag 4.8
Banff
e 14 05 52
Edmonton
eP 14 06 11 c
Mould Bay
eP 14 09 14 d
Penticton
eP 14 05 14
Port Hardy
iP 14 04 04
Victoria
eP 14 04 42 c
Yellowknife
eP 14 07 05

JULY 12
Canadian Arctic
H = 15 23 10.8
Mag 2.4
Resolute
P₁ 15 23 26.5
S₁ 15 23 38.5
D₁ = 98 km

JULY 12
U.S. C. G. S.
46.8N, 153.6E
Kurile Islands Region
H = 15 28 08.5
h = about 33 km
Mag 5 - 5 1/4 (PAL)
4.8 (CGS)
Alert
eP 15 36 58
Banff
eP 15 37 44
Edmonton
eP 15 37 44 c
Mould Bay
eP 15 36 19.5
Penticton
eP 15 37 37
Resolute
eP 15 37 (07)
Schefferville
eP 15 39 38
Yellowknife
eP 15 37 07

JULY 12
H = 15 54 13
Mag 2.4
Port Hardy
iP 15 54 36.5
eS 15 54 54.8
D = 150 km



DOMINION OBSERVATORIES

JULY 12
H = 16 08 13
Mag 2.3
Port Hardy
eP 16 08 34.8
eS 16 08 50.4
D = 128 km

JULY 12
Mould Bay
eP 16 31 17

JULY 12
Mould Bay
eP 16 44 58

JULY 12
H = 19 07 05
Mag 2.5
Penticton
iP 19 07 30.2
iS 19 07 49.6
D = 159 km

JULY 12
Mould Bay
eP 21 07 53

JULY 12
Mould Bay
iP 21 49 36.5 c

JULY 12
U.S.C.G.S.
33.9N, 140.7E
Off south coast of
Honshu, Japan
H = 23 42 03
h = about 73 km
Mag 4.4 (CGS)
Mould Bay
eP 23 51 47
i 23 52 09

JULY 12
U.S.C.G.S.
5.5S, 153.3E
New Britain
H = 23 51 16.0
h = about 56 km
Mag 5.0 (CGS)
Mould Bay
eP 21 04 31.5

JULY 12
H = 23 55 58
Mag 2.4
Penticton
eP 23 56 23.4
eS 23 56 43.0
D = 161 km

JULY 13
H = 00 02 25
Mag 3.0
Penticton
eP 00 03 06.4
eS 00 03 40.8
D = 282 km

JULY 13
49°45'N, 124°00'W
On Vancouver Island
H = 03 16 53
Mag 3.1
Penticton
eP 03 17 38.3
eS 03 18 13.7
D = 282 km
Port Hardy
eP 03 17 33.4
eS 03 18 07
D = 275 km
Victoria
iP 03 17 15.1
iS 03 17 32.2
D = 140 km

JULY 13
U.S.C.G.S.
29.6N, 51.0E
Near west coast of Iran
H = 08 24 24.7
h = about 44 km
Mag 5.0 (CGS)
Alert
i 08 34 55
Edmonton
eP 08 37 51 c
Mould Bay
eP 08 35 59 c
Schefferville
eP 08 36 34 c
Yellowknife
iP 08 37 12 d

JULY 13
U.S.C.G.S.
46.0N, 154.1E
Kurile Islands Region
H = 08 51 33.6
h = about 33 km
Mag 4.1 (CGS)
Edmonton
eP 09 01 (12)
Mould Bay
eP 08 59 49

JULY 13
U.S.C.G.S.
44.3N, 148.8E
Kurile Islands
H = 13 58 25.7
h = about 33 km
Mag 4.6 (CGS)
Edmonton
eP 14 08 31
Mould Bay
eP 14 07 02
i 14 07 14
Penticton
eP 14 08 24
Resolute
eP 14 07 48

SEISMOLOGICAL BULLETIN - 1963

Schefferville
eP 14 10 15
Yellowknife
eP 14 07 55

JULY 13
U.S.C.G.S.
24.3N, 122.3E
Ryukyu Islands
H = 14 06 23.7
h = about 33 km
Mag 4.9 (CGS)
Edmonton
eP 14 19 17
Mould Bay
eP 14 17 50.5
Penticton
eP 14 19 14

JULY 13
Edmonton
eP 14 40 (59)

JULY 13
U.S.C.G.S.
24.9N, 70.3E
East Pakistan
H = 19 08 39.1
h = about 33 km
Mould Bay
eP 19 20 42
e 19 21 17

JULY 13
H = 21 38 51
Mag 2.1
Penticton
eP 21 39 12.2
eS 21 39 28.0
D = 130 km

JULY 14
U.S.C.G.S.
30.5S, 177.2W
Kermadec Islands Region
H = 00 02 22.8
h = about 33 km
Mag 5.3 (CGS)
Halifax
eP' 00 21 24
Mould Bay
eP' 00 20 55
Penticton
eP 00 15 40
Victoria
eP 00 15 29

JULY 14
U.S.C.G.S.
46.3N, 153.2E
Kurile Islands Region
H = 01 31 10.0
h = about 33 km
Mag 4.2 (CGS)
Edmonton
eP 01 40 (49)
Mould Bay
eP 01 39 25

JULY 14
Mould Bay
eP 05 28 50
i 05 28 54

JULY 14
U.S.C.G.S.
46.1N, 153.6E
Kurile Islands Region
H = 05 38 48.6
h = about 33 km
Mag 4.4 (CGS)
Mould Bay
eP 05 47 05

JULY 14
U.S.C.G.S.
10.4N, 62.6W
Off coast of Northern
Venezuela
H = 05 41 43.0
h = about 24 km
Mag 5 3/4 (BRK)
5 3/4 - 6 (PAL)
5.5 (CGS)

Alert
eP 05 52 (52)
i 05 53 05

Banff
eP 05 51 43

Edmonton
eP 05 51 39 d

Halifax
eP 05 48 29 c

London
iP 05 48 48 d

Mould Bay
eP 05 53 06.5

Ottawa
eP 05 48 49 d

i 05 51 16

Penticton
iP 05 51 54 d

Resolute
eP 05 52 32 (d)

Scarborough
eP 05 48 47 c

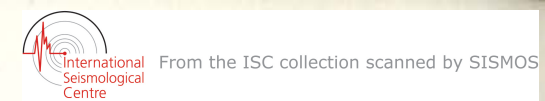
Schefferville
eP 05 49 54 (d)

Sept-Îles
eP 05 49 17

Seven Falls
eP 05 48 55 c

Victoria
eP 05 52 09 d

Yellowknife
eP 05 52 14



DOMINION OBSERVATORIES

JULY 14
U.S. C. G. S.
10.4N, 62.5W
Near coast of Venezuela
H = 06 40 09.6
h = about 43 km
Mag 4.3 (CGS)
Edmonton
eP 06 50 05 c
Mould Bay
eP 06 51 32

JULY 14
U.S. C. G. S.
29.5N, 50.8E
Persian Gulf
H = 07 46 21.4
h = about 33 km
Mould Bay
eP 07 57 58

JULY 14
U.S. C. G. S.
36.1N, 70.6E
Hindu Kush
H = 10 51 42.7
h = about 120 km
Mag 5.1 (CGS)
Edmonton
eP 11 04 34
Mould Bay
eP 11 02 29 c
i 11 02 59
Yellowknife
eP 11 03 50

JULY 14
U.S. C. G. S.
30.2S, 177.4W
Kermadec Islands
H = 14 28 22.1
h = about 42 km
Mag 5.1 (CGS)
Mould Bay
eP' 14 46 52

JULY 14
U.S. C. G. S.
30.3N, 78.5E
Northern India
H = 14 48 28.4
h = about 33 km
Mag 4.8 (CGS)
Mould Bay
eP 14 59 56 c

JULY 14
Mould Bay
eP 15 07 54

JULY 14
U.S. C. G. S.
39.4S, 174.9E
North Island,
New Zealand
H = 17 06 38.6
h = about 189 km
Mag 6.0 (CGS)
Mould Bay
eP' 17 25 09 c
Resolute
eP' 17 25 19

JULY 14
Schefferville
e(P) 17 30 49
Seven Falls
eP 17 31 16

JULY 14
Mould Bay
eP 20 33 27

JULY 14
H = 21 13 22
Mag 2.1
Penticton
eP 21 13 47.7
iS 21 14 07.1
D = 157 km

JULY 14
Mould Bay
eP 21 41 40.5

JULY 15
U.S. C. G. S.
4.4N, 77.5W
Near coast of Colombia
H = 00 31 50.4
h = about 47 km
Mag 4.4 (CGS)
Mould Bay
eP 00 43 34

JULY 15
U.S. C. G. S.
1.6N, 127.1E
Halmahera Region
H = 05 19 32
h = about 33 km
Mould Bay
eP 05 32 52

JULY 15
U.S. C. G. S.
51.8N, 176.8W
Andreanof Islands,
Aleutian Islands
H = 06 28 21.7
h = about 33 km
Mag 4.6 (CGS)
Banff
eP 06 35 31
Edmonton
eP 06 35 34 (c)
Mould Bay
eP 06 34 55 c
Penticton
iP 06 35 19 c

JULY 15
U.S. C. G. S.
61.7N, 134.9W
Yukon
H = 08 36 41
h = about 33 km
Mag 4.2 (CGS)

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Edmonton
e 08 40 59 c
Mould Bay
eP 08 40 20 d
i 08 40 36.5
Penticton
i 08 40 44

JULY 15
U.S. C. G. S.
55.6N, 162.0E
Kamchatka
H = 08 41 07.5
h = about 60 km
Mag 5.2 (CGS)
Edmonton
eP 08 49 29 c
Mould Bay
eP 08 47 49.5 d
Penticton
eP 08 49 20
Resolute
eP 08 48 43 d
Schefferville
eP 08 51 29
Sept-Iles
eP 08 51 56
Yellowknife
eP 08 48 37

JULY 15
U.S. C. G. S.
62.0N, 134.4W
Yukon
H = 16 42 34.8
h = about 33 km
Mag 3.8 (CGS)
Edmonton
e 16 46 32 c
Mould Bay
eP 16 46 08
i 16 49 55
Penticton
eP 16 46 14
Resolute

Resolute
eP 16 47 01 (d)
Yellowknife
e 16 45 45

JULY 15
H = 18 46 43
Mag 2.9
Penticton
eP 18 47 24.2
eS 18 47 58.6
D = 282 km

JULY 15
U.S. C. G. S.
53.2N, 162.9E
Near east coast of
Kamchatka
H = 19 22 17.9
h = about 33 km
Mag 4.7 (CGS)
Mould Bay
eP 19 29 19.5

JULY 15
Edmonton
eP 19 42 39 (d)

JULY 16
H = 00 42 39.5
Mag 2.6
Penticton
iP 00 43 05.0
iS 00 43 24.4
D = 159 km

JULY 16
Mould Bay
eP 06 08 05 c

JULY 16
U.S. C. G. S.
15.4S, 173.3W
Samoa Islands Region
H = 07 59 52.3
h = about 33 km
Mag 4.4 (CGS)
Edmonton
eP 08 12 28 d
Penticton
eP 08 12 01

JULY 16
Mould Bay
eP 09 28 37 c

JULY 16
Mould Bay
eP 13 11 52

JULY 16
U.S. C. G. S.
43.1N, 41.5E
Georgia S.S.R.
H = 18 27 18.4
h = about 33 km
Mag 5.8 (CGS)
Alert
eP 18 36 05 c
S 18 43 11
Banff
eP 18 39 47
Halifax
eP 18 38 30 (c)
London
iP 18 39 26 c
Mould Bay
eP 18 37 24 c
Ottawa
eP 18 39 02
Penticton
iP 18 39 59 c
Resolute
eP 18 37 16 c
Schefferville

DOMINION OBSERVATORIES

Schefferville iP 18 37 56 c	Mould Bay eP 22 21 31 c	JULY 17 Yellowknife eP 08 55 54
Sept-Iles eP 18 38 16	Seven Falls eP 22 22 47	JULY 17 U.S.C.G.S. 25.4S, 111.6W
Seven Falls eP 18 38 41 (d)	JULY 16 H = 23 32 58	Easter Island Region H = 10 34 36.9
Victoria eiP 18 40 05 c	Mag 2.4	h = about 33 km
Yellowknife iP 18 38 46 d	Penticton iP 23 33 26.2	Mag 4.7 (CGS)
JULY 16 Yellowknife eP 18 58 38	iS 23 33 47.4	Edmonton eP 10 46 35 d
JULY 16 Seven Falls eP 19 14 54	D = 174 km	Penticton eP 10 46 15
JULY 16 U.S.C.G.S. 30.6S, 177.2W	JULY 17 Edmonton eP 01 11 08 c	Yellowknife eP 10 47 27
Kermadec Islands H = 19 08 29.2	Mould Bay eP 01 09 29	JULY 17 U.S.C.G.S. 43.1N, 41.5E
h = about 41 km	JULY 17 North of Vancouver H = 03 15 15	Georgia S.S.R. H = 11 57 06.7
Mag 5.0 (CGS)	Mag 2.6	h = about 33 km
Resolute eP' 19 27 (09)	Penticton eP 03 15 40.4	Mag 5.3 (CGS)
JULY 16 H = 21 42 05	eS 03 15 59.8	Alert eP 12 05 55
Mag 2.4	D = 159 km	Banff iP 12 09 34
Penticton eP 21 42 30.5	Victoria eP 03 15 52.3	Edmonton eP 12 09 23 c
eS 21 42 49.9	eS 03 16 30.0	Mould Bay iP 12 07 13.5 c
D = 160 km	D = 268 km	Penticton iP 12 09 48 c
JULY 16 U.S.C.G.S. 43.3N, 41.6E	JULY 17 U.S.C.G.S. 46.9S, 33.3E	Schefferville eP 12 07 44 c
Georgia S.S.R. H = 22 11 23.0	Prince Edward Islands Region H = 03 24 37.4	Seven Falls iP 12 08 30 c
h = about 17 km	h = about 33 km	Victoria eP 12 09 54
Mag 4.9 (CGS)	Mould Bay eP' 03 44 20 (d)	Yellowknife eP 12 08 35
Edmonton eP 22 23 40 (c)	Resolute eP' 03 44 10 d	

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JULY 17 U.S.C.G.S. 49.5N, 156.3E	Penticton eP 00 05 34.3	JULY 18 U.S.C.G.S. 18.5S, 69.3W
Kurile Islands Region H = 15 07 22.3	D = 668 km	Northern Chile H = 05 25 04.3
h = about 78 km	Port Hardy iP 00 04 35.6	h = about 72 km
Mag 4.7 (CGS)	iS 00 04 59.4	Mag 4.9 (CGS)
Edmonton eP 15 16 31	D = 196 km	Edmonton eP 05 37 12
Mould Bay eP 15 15 01	Schefferville eP 00 11 19 c	Penticton iP 05 37 13 d
Yellowknife eP 15 15 51	Seven Falls eP 00 11 23 d	Schefferville eP 05 36 29 d
JULY 17 H = 18 30 24	Victoria iP 00 04 57.5	Yellowknife iP 05 37 50 d
Mag 2.2	iS 00 05 34	
Penticton eP 18 30 49.0	D = 398 km	JULY 18 U.S.C.G.S. 22.5S, 67.0W
eS 18 31 08.6	JULY 18 Mould Bay eP 00 29 06	Jujuy Prov., Argentina H = 11 15 11.3
D = 160 km	JULY 18 U.S.C.G.S. 61.0S, 22.3W	h = about 258 km
JULY 17 Mould Bay eP 21 02 39	Sandwich Islands Region H = 04 58 09.2	Mag 4.6 (CGS)
JULY 18 49° 15'N, 128° 45'W	h = about 33 km	Edmonton eP 11 27 18 d
West of Vancouver Island h = 00 04 05	Mag 6.0 (CGS)	Penticton iP 11 27 19
Mag 4.6	Alert eP' 05 17 39	JULY 18 Mould Bay eP 20 00 56.5
Albarni iP 00 04 46.4	Edmonton eP' 05 17 11	JULY 18 Mould Bay eP 20 34 56
D = 285 km	Mould Bay eP' 05 17 46 c	JULY 18 H = 23 01 18
Banff eP 00 06 14.7	i 05 17 53	Mag 2.7
Edmonton iP 00 06 37	Ottawa e 05 17 43	Penticton eP 23 01 45.0
Halifax eP 00 12 10 d	Penticton eP' 05 17 07	eS 23 02 05.8
London iP 00 10 42 d	Resolute iP' 05 17 35 c	D = 170 km
Mould Bay eP 00 09 51 d	Schefferville eP' 05 16 55	
Ottawa eP 00 11 03	Seven Falls e 05 17 46 c	
	Yellowknife eP' 05 17 30	

DOMINION OBSERVATORIES

<p>JULY 19 Mould Bay eP 00 08 17 d</p> <p>JULY 19 Mould Bay eP 00 29 12</p> <p>JULY 19 Mould Bay eP 01 30 21 iP 01 32 14.5</p> <p>JULY 19 Mould Bay iP 01 41 35 c</p> <p>JULY 19 U.S.C.G.S. 7.1N, 33.6W Atlantic Ocean H = 04 12 10.3 h = about 33 km Mag 4.4 (CGS) Edmonton eP 04 24 (09) Mould Bay eP 04 24 31.5</p> <p>JULY 19 U.S.C.G.S. 43.4N, 8.2E Ligurian Sea H = 05 45 28.0 h = about 33 km Mag 5 1/4 (PAL), 5.5(CGS) Alert eP 05 53 (40) Banff eP 05 57 00 Edmonton eP 05 56 46 c Halifax eP 05 54 21 c London eP 05 55 45</p>	<p>Mould Bay eP 05 55 05 c Ottawa eP 05 55 14 c Resolute eP 05 54 36 Scarboro eP 05 55 35 Schefferville eP 05 54 03 Seven Falls eP 05 54 46 Victoria iP 05 57 31.5 d Yellowknife eP 05 56 06</p> <p>JULY 19 U.S.C.G.S. 43.3N, 8.1E Ligurian Sea H = 05 46 05.2 h = about 33 km Mag 5.6 (CGS) Mould Bay eP 05 55 (40) Ottawa eP 05 55 51 c Seven Falls iP 05 55 24</p> <p>JULY 19 U.S.C.G.S. 36.3N, 141.0E Near East Coast of Honshu, Japan H = 09 00 44.8 h = about 70 km Mag 4.6 (CGS) Alert eP 09 10 52 c Edmonton eP 09 11 51 (c) Mould Bay iP 09 10 27 c Resolute eP 09 11 08 c</p>	<p>Schefferville eP 09 13 20</p> <p>JULY 19 U.S.C.G.S. 52.0N, 172.5W Andreanof Islands, Aleutian Islands. H = 11 46 39.1 h = about 50 km Mag 4.4 (CGS) Edmonton eP 11 53 29 d Mould Bay eP 11 53 00 i 11 55 50</p> <p>JULY 19 Edmonton eP 19 00 43 d Mould Bay iP 18 59 55 d Penticton iP 19 01 10 Resolute eP 19 00 31 Yellowknife eP 19 00 23 c</p> <p>JULY 19 H = 19 10 04 Mag 2.2 Penticton eP 19 10 29.7 iS 19 10 49.1 D = 159 km</p>
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<p>JULY 19 U.S.C.G.S. 43.4N, 146.3E Kurile Islands Region H = 19 13 55.7 h = about 43 km Mag 4.4 (CGS) Edmonton eP 19 24 14 Mould Bay eP 19 22 42 d Resolute eP 19 23 28</p> <p>JULY 19 H = 20 20 17 Mag 2.5 Penticton iP 20 20 33.0 iS 20 20 49.9 D = 98 km</p> <p>JULY 19 U.S.C.G.S. 45.1N, 110.0W Southern Montana H = 20 56 43.2 h = about 33 km Mag 3.4 (CGS) Penticton eP 20 58 40</p> <p>JULY 19 Mould Bay eP 22 42 22 c</p> <p>JULY 19 H = 23 02 23 Mag 2.2 Penticton eP 23 02 47.2 eS 23 03 05.6 D = 151 km</p>	<p>JULY 19 H = 23 19 35 Mag 2.5 Penticton eP 23 20 00.9 eS 23 20 20.5 D = 160 km</p> <p>JULY 20 U.S.C.G.S. 65.2N, 133.7W Yukon H = 00 11 35.0 h = about 33 km Mag 4.6 (CGS) Alert eP 00 16 43 Edmonton eP 00 15 11 (d) Penticton eP 00 15 39 Port Hardy eP 00 15 06 Schefferville eP 00 18 12 Seven Falls eP 00 18 (46) Victoria eP 00 15 38 Yellowknife iP 00 13 38 c</p> <p>JULY 20 U.S.C.G.S. 43.4N, 41.2E Georgia S.S.R. H = 00 51 55.7 h = about 33 km Mag 4.8 (CGS) Edmonton eP 01 04 10 c Mould Bay eP 01 02 00.5 Penticton eP 01 04 34</p>	<p>Yellowknife eP 01 03 22</p> <p>JULY 20 Mould Bay eP 01 14 52.5</p> <p>JULY 20 Mould Bay eP 02 13 (53) i 02 14 26.5</p> <p>JULY 20 U.S.C.G.S. 47.2N, 152.2E Kurile Islands Region H = 02 13 45.3 h = about 108 km Mag 4.4 (CGS) Edmonton eP 02 23 17 Mould Bay eP 02 21 46 d Penticton eP 02 23 10 Resolute eP 02 22 34 d Yellowknife eP 02 22 37 c</p> <p>JULY 20 Mould Bay eP 05 09 31</p> <p>JULY 20 Mould Bay eP 05 34 (15)</p>
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DOMINION OBSERVATORIES

JULY 20
U.S.C.G.S.
14.4N, 142.9E
Mariana Islands
H = 05 26 19.1
h = about 33 km
Mag 5.1 (CGS)
Edmonton
eP 05 39 02
Mould Bay
eP 05 38 19

JULY 20
U.S.C.G.S.
51.3N, 157.9E
Rat Islands
Aleutian Islands
H = 05 35 33.6
h = about 65 km
Mag 4.2 (CGS)
Mould Bay
eP 05 42 57 c

JULY 20
Yellowknife
eP 06 38 34

JULY 20
U.S.C.G.S.
57.6S, 148.5E
Macquarie Island Region
H = 06 36 10.8
h = about 33km
Mag 6 (PAL), 5.6 (CGS)
Alert
eP' 06 56 . 0
Edmonton
eP' 06 55 (20)
Halifax
eP' 06 56 09 d
London
eP' 06 55 47 d
Mould Bay
eP' 06 55 43.5 c
Ottawa
eP' 06 56 (00)

Penticton
eP' 06 55 16
Resolute
eP' 06 56 00 (c)
Schefferville
eP' 06 56 (08)
Yellowknife
eP' 06 55 36

JULY 20
U.S.C.G.S.
10.5N, 62.5W
Near Coast of Venezuela
H = 07 34 38.7
h = about 56 km
Mag 4.0 (CGS)
Edmonton
eP 07 44 33 c
Mould Bay
eP 07 46 00

JULY 20
U.S.C.G.S.
32.4N, 140.5E
South of Honshu, Japan
H = 07 38 50.9
h = about 124 km
Mag 4.4 (CGS)
Mould Bay
eP 07 48 54 (d)
Resolute
eP 07 49 (33)

JULY 20
49°00'N, 128°40'W
West of Vancouver Island
H = 08 54 26
Mag 3.0
Alberni
eP 08 54 10.5
Port Hardy
eP 08 54 56.5
D = 212 km
Victoria
eP 08 55 44
D = 584 km

JULY 20
U.S.C.G.S.
45.1N, 111.3W
Southwestern Montana
H = 10 41 02:5
h = about 33 km
Mag 3.4 (CGS)
Edmonton
eP 10 43 (24)

JULY 20
U.S.C.G.S.
68.8N, 4.6W
Jan Mayen
Island Region
H = 15 07 58.2
h = about 49 km
Mag 4.8 (CGS)
Alert
eP 15 12 10
Edmonton
eP 15 16 30 c
Mould Bay
eP 15 14 02 c
Penticton
eP 15 17 09
Resolute
eP 15 13 (32)
Yellowknife
iP 15 15 28 d

JULY 20
Penticton
eP 16 31 06

JULY 20
Mould Bay
eP 17 30 56.5

JULY 20
Mould Bay
eP 19 31 49

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JULY 21
Mould Bay
eP 01 02 (27)
i 01 02 39

JULY 21
Mould Bay
eP 02 37 00

JULY 21
Mould Bay
eP 05 41 (50)
i 05 42 10

JULY 21
U.S.C.G.S.
14.8N, 56.1E
Arabian Sea
H = 06 01 57.3
h = about 33 km
Alert
eP 06 13 58
Mould Bay
eP 06 14 49

JULY 21
U.S.C.G.S.
17.8N, 46.5W
North Atlantic Ocean
H = 06 47 32.2
h = about 33 km
Mag 4.8 (CGS)
Alert
iP 06 58 11
Edmonton
eP 06 57 52
Mould Bay
eP 06 58 36
Penticton
eP 06 58 (16)

JULY 21
Canadian Arctic
H = 08 14 44
Mag 2.7

Alert
P₁ 08 15 09
S₁ 08 15 28
D = 156 km

JULY 21
U.S.C.G.S.
56.1S, 27.4W
Sandwich Island Region
H = 11 03 20
h = about 80 km
Mag 5.5 (CGS)
Mould Bay
eP' 11 22 43 (d)

JULY 21
U.S.C.G.S.
37.2N, 141.7E
Near East Coast of
Honshu, Japan
H = 12 45 07
h = about 33 km
Mag 3.9 (CGS)
Mould Bay
eP 12 54 45.5

JULY 21
U.S.C.G.S.
9.7N, 122.3E
Negros, Philippine
Islands
H = 14 45 07.1
h = about 54 km
Mould Bay
eP 14 57 48 (c)

JULY 21
U.S.C.G.S.
36.5N, 69.9E
Hindu Kush Region
H = 18 48 30.4
h = about 112 km
Mag 4.0 (CGS)
Mould Bay
eP 18 59 14.5

JULY 21
Edmonton
eP 20 07 (11)

JULY 21
U.S.C.G.S.
55.4N, 155.7W
Kodiak Island Region
H = 20 29 38.3
h = about 33 km
Mag 3.7 (CGS)
Edmonton
eP 20 34 56
Mould Bay
eP 20 35 00

JULY 21
U.S.C.G.S.
37.2N, 141.7E
Near East Coast of
Honshu, Japan
H = 12 45 07
h = about 33 km
Mag 3.9 (CGS)
Mould Bay
eP 12 54 45.5

JULY 21
U.S.C.G.S.
9.7N, 122.3E
Negros, Philippine
Islands
H = 14 45 07.1
h = about 54 km
Mould Bay
eP 14 57 48 (c)

JULY 21
U.S.C.G.S.
36.5N, 69.9E
Hindu Kush Region
H = 18 48 30.4
h = about 112 km
Mag 4.0 (CGS)
Mould Bay
eP 18 59 14.5

JULY 22
U.S.C.G.S.
13.6N, 89.9W
El Salvador
H = 00 16 33.1
h = about 34 km
Mag 4.0 (CGS)
Mould Bay
eP . 00 27 05

JULY 22
U.S.C.G.S.
6.1S, 148.9E
New Britain
H = 00 29 14.9
h = about 59 km
Mag 5 (BRK), 5.1 (CGS)
Edmonton
eP 00 42 (57)
Mould Bay
eP 00 42 38

DOMINION OBSERVATORIES

Ottawa
eP' 00 48 09
Schefferville
eP' 00 48 08 d

JULY 22
Mould Bay
eP 02 04 05

JULY 22
Mould Bay
eP 03 38 47.5

JULY 22
Mould Bay
eP 07 57 07

JULY 22
Edmonton
eP 08 33 (37)
Mould Bay
eP 08 32 49.5
i 08 33 24
Yellowknife
eP 08 32 48

JULY 22
Mould Bay
eP 10 53 37.5

JULY 22
Mould Bay
iP 11 42 20.5

JULY 22
U.S.C.G.S.
3.2S, 76.0W
Northwestern Colombia
H = 13 45 41.2
h = about 149 km
Mag 3.8 (CGS)
Mould Bay
eP 13 57 51
i 13 58 25

JULY 22
U.S.C.G.S.
7.7N, 126.8E
Near Coast of Mindanao,
Philippine Islands
H = 19 22 22.3
h = about 125 km
Mould Bay
eP 19 35 01

JULY 23
U.S.C.G.S.
41.5N, 141.9E
Tsugaru Strait
H = 06 17 51.5
h = about 91 km
Mag 4.4 (CGS)
Alert
eP 06 27 20 (c)
Edmonton
eP 06 28 27 c
Mould Bay
iP 06 26 54.5 c
Penticton
iP 06 28 22
Resolute
eP 06 27 37
Schefferville
eP 06 29 58 c
Victoria
eP 06 28 09
Yellowknife
eP 06 27 49

JULY 23
Victoria
eP 11 28 32

JULY 23
U.S.C.G.S.
43.1N, 147.5E
Kurile Islands Region
H = 12 40 55.4
h = about 33 km
Mag 4.0 (CGS)

Mould Bay
eP 12 49 42
Resolute
eP 12 50 28

JULY 23
H = 19 12 47
Mag = 2.3
Penticton
iP 19 13 18.2
iS 19 13 42.5
D = 198 km

JULY 23
U.S.C.G.S.
50.0N, 176.3W
Andreanof Islands
Region,
Aleutian Islands.
H = 21 51 15.5
h = about 77 km
Mould Bay
eP 21 57 55.5

JULY 23
H = 22 18 32
Mag = 2.0
Penticton
eP 22 18 58.2
eS 22 19 18.0
D = 162 km

JULY 23
Penticton
eP 23 34 16

JULY 24
Alert
eP 06 21 45
Edmonton
eP 06 21 31
Mould Bay
eP 06 21 59 c
Resolute
eP 06 21 (41)

SEISMOLOGICAL BULLETIN - 1963

JULY 24
57.6N, 150.5W
Kodiak Island
Region, Alaska.
H = 09 49 12.6
h = about 33 km
Mag 4.0 (CGS)
Edmonton
eP 09 54 01
Mould Bay
iP 09 54 08

JULY 24
U.S.C.G.S.
24.6N, 122.0E
Near East Coast
of Formosa
H = 11 32 17.7
h = about 33 km
Mag 5.3 (CGS)
Alert
eP 11 43 33
i 11 43 48
Banff
eP 11 45 (12)
Edmonton
eP 11 45 10 c
Mould Bay
iP 11 43 42.5
Penticton
eP 11 45 06
Resolute
eP 11 44 14
Victoria
eP 11 44 58

JULY 24
U.S.C.G.S.
36.1N, 136.8E
Honshu, Japan
H = 11 50 31.1
h = about 33 km
Mag 4.1 (CGS)
Mould Bay
eP 12 00 24.5

JULY 24
Mould Bay
eP 19 14 46
Resolute
eP 19 14 (55)

JULY 24
Mould Bay
iP 19 17 24

JULY 24
U.S.C.G.S.
9.0S, 158.2E
Solomon Islands
Region.
H = 19 04 32.5
h = about 33 km
Mag 5.8 (CGS)
Penticton
eP 19 17 36
Yellowknife
eP 19 17 56

JULY 24
H = 19 12 29
Mag 2.2
Penticton
iP 19 12 56.0
iS 19 13 16.6
D = 168 km

JULY 24
H = 21 30 12
Mag = 2.1
Penticton
eP 21 30 37.0
eS 21 30 56.2
D = 158 km

JULY 24
Seven Falls
eP 22 00 05

JULY 24
H = 22 18 16
Mag 2.2

Penticton
eP 22 18 41.5
eS 22 19 00.9
D = 159 km

JULY 24
Penticton
eP 23 23 43

JULY 25
U.S.C.G.S.
6.8N, 73.0W
Northern Colombia
H = 07 04 21.9
h = about 152 km
Mag 5.2 (CGS)
Alert
iP 07 15 52 c
Banff
eP 07 13 47
Halifax
iP 07 11 33 c
London
iP 07 11 18 c
Mould Bay
iP 07 15 41 c
Penticton
iP 07 13 58 c
Resolute
eP 07 15 12
Scarboro
iP 07 11 21 c
Schefferville
iP 07 12 48
Seven Falls
iP 07 11 47 c
Victoria
eP 07 14 10 (c)
Yellowknife
iP 07 14 36 c

DOMINION OBSERVATORIES

JULY 25
H = 14 28 06
Mag = 2.4
Penticton
eP 14 28 46.3
eS 14 29 20.2
D = 278 km

JULY 25
U.S.C.G.S.
8.1N, 123.5E

Mindanao, Philippine Islands.
H = 15 17 17.9
h = about 637 km
Mag 4.4 (CGS)
Mould Bay
eP 15 29 05 (c)

JULY 25
H = 18 26 18
Mag 2.9
Penticton
eP 18 26 50.0
eS 18 27 15.4
D = 208 km

JULY 25
H = 18 53 10
Mag = 2.7
Penticton
iP 18 53 35.0
iS 18 53 54.2
D = 157 km

JULY 25
Mould Bay
eP 18 55 06.5

JULY 25
Mould Bay
eP 21 38 29

JULY 25
Mould Bay
eP 21 45 50

Resolute
eP 21 46 17

JULY 26
H = 01 54 04
Mag 2.2
Penticton
eP 01 54 29.8
eS 01 54 49.4
D = 161 km

JULY 26
U.S.C.G.S.
42.1N, 21.5E
Southern Yugoslavia
H = 04 17 16.7
h = about 33 km
Mag 5 1/2 - 5 3/4 (BRK),
5 1/2 (PAL), 5.4 (CGS)

Alert
eP 04 25 52
Halifax
iP 04 27 16 d
London
iP 04 28 30 d
Mould Bay
iP 04 27 17 d

Penticton
iP 04 29 (38) d
Resolute
eP 04 26 55 d

Scarboro
iP 04 28 21(d)
Schefferville
eP 04 26 53
Seven Falls
eP 04 27 36 c
Yellowknife
iP 04 28 26 c

JULY 26
Victoria
eP_n 04 29 49 d
eP₁ 04 29 53 c

JULY 26
U.S.C.G.S.
42.1N, 21.6E
Southern Yugoslavia
H = 04 53 13.8
h = about 33 km
Mag 4.2 (CGS)
Mould Bay
eP 05 03 14

JULY 26
Mould Bay
eP 05 51 54

JULY 26
H = 08 41 09
Mag 3.0
Penticton
eP 08 41 51
eS 08 42 26
D = 286 km

JULY 26
H = 08 45 02
Mag 3.6
Penticton
eP 08 45 50.1
eS 08 46 26.4
D = 295 km

JULY 26
U.S.C.G.S.
39.6N, 15.2E
Mediterranean Sea
H = 09 26 46.4
h = about 337 km
Mag 4.2 (CGS)
Mould Bay
eP 09 36 26
Victoria
eP 09 38 46
Yellowknife
iP 09 37 27 c

SEISMOLOGICAL BULLETIN - 1963

JULY 26
U.S.C.G.S.
28.5N, 112.0W
Gulf of California
H = 13 40 29.5
h = about 33 km
Mag 4.0 (CGS)
Mould Bay
eP 13 49.0

JULY 26
U.S.C.G.S.
36.9N, 29.1E
Dodecanese Islands
H = 19 46 33.2
h = about 33 km
Mould Bay
eP 19 57 13

JULY 26
H = 23 24 13
Mag 2.1
Penticton
eP 23 24 38.0
iS 23 24 57.4
D = 159 km

JULY 26
U.S.C.G.S.
9.7S, 78.5W
Near Coast of Peru
H = 23 48 26.5
h = about 62 km
Mag 4.9 (CGS)
Mould Bay
iP 24 01 16 (d)
Ottawa
eP 23 57 52 d
Penticton
eP 23 59 28
Resolute
eP 24 00 (55)
Schefferville
eP 23 59 02 d
Seven Falls
eP 23 58 08

Victoria
eP 23 59 48
Yellowknife
iP 24 00 15 (c)
JULY 27
Mould Bay
iP 02 29 28 (d)

JULY 27
Canadian Arctic
H = 02 33 27.2
Mag 2.1
Resolute
P₁ 02 33 41
S₁ 02 33 51.5
D = 86 km

JULY 27
U.S.C.G.S.
43.5N 8.4E
Ligurian Sea
H = 05 58 23.4
h = about 33 km
Mag 5.1 (CGS)

Alert
eP 06 06 34 c
Banff
eP 06 09 56
Halifax
iP 06 07 16 d
Mould Bay
eP 06 08 00.5
Ottawa
eP 06 08 09 c
Penticton
iP 06 10 15 c

Resolute
eP 06 07 31(c)
Schefferville
eP 06 07 01 (c)
Seven Falls
eP 06 07 42 d
Victoria
eP 06 10 25
Yellowknife
iP 06 09 02 d

JULY 27
U.S.C.G.S.
43.9N, 128.3W
Off Coast of Oregon
H = 06 27 03.0
h = about 33 km
Mag 4.5 (CGS)
Mould Bay
eP 06 33 33
Yellowknife
eP 06 31 37

JULY 27
U.S.C.G.S.
18.4N, 105.7W
Off Coast of Jalisco, Mexico.
H = 09 21 57
h = about 33 km
Mag 3.8 (CGS)
Mould Bay
eP 09 31 48

JULY 27
Mould Bay
iP 10 17 52 c

JULY 27
U.S.C.G.S.
34.3N, 23.1E
Crete
H = 13 44 32.9
h = about 33 km
Mag 4.3 (CGS)
Mould Bay
eP 13 55 (25)

JULY 27
U.S.C.G.S.
35.9S, 102.7W
Easter Island Region
H = 16 47 03.7
h = about 33 km
Mag 4.6 (CGS)
Penticton
eP 16 59 44

DOMINION OBSERVATORIES

JULY 27
Edmonton
eP 20 12 (52)
Mould Bay
eP 20 12 47
Resolute
eP 20 13 04 (d)

JULY 27
H = 23 28 21
Mag 3.0
Penticton
eP 23 29 07.5
iS 23 29 47.4
D = 327 km

JULY 27
H = 21 47 53
Mag 2.2
Penticton
eP 21 48 18.3
eS 21 48 37.9
D = 160 km

JULY 27
U.S.C.G.S.
31.0N, 140.3E
South of Honshu Japan
H = 21 26 44.8
h = about 100 km
Mag 4.2 (CGS)
Mould Bay
eP 21 36 40
i 21 37 18
Resolute
eP 21 37 38

JULY 27
U.S.C.G.S.
13.2N, 144.5E
Mariana Islands
H = 22 19 52.0
h = about 87 km
Mag 4.3 (CGS)
Mould Bay
eP 22 31 45.5
Resolute
eP 22 32 19

JULY 28
U.S.C.G.S.
51.7N, 174.5W
Andreanof Islands,
Aleutian Islands
H = 04 17 50.7
h about 33 km
Mag 3.8 (CGS)
Mould Bay
eP 04 24 17.5

JULY 28
Edmonton
eP 06 03 02c

JULY 28
H = 06 15 21
Mag 2.0
Penticton
eP 06 15 40.0
iS 06 16 25.5
D = 419 km

JULY 28
U.S.C.G.S.
11.3S, 112.1E
Off Coast of Java
H = 07 55 21.9
h about 21 km
Mag 5.1 (CGS)
Banff
eP' 08 14 23
Edmonton
eP' 08 14 23d
Halifax
iP' 08 15 04 (c)
London
eP' 08 15 03

Mould Bay
eP' 08 13 52
Penticton
eP' 08 14 20
Resolute
eP' 08 14 03
Scarboro
eP' 08 15 03
Schefferville
eP' 08 14 (43)
Seven Falls
eP' 08 14 42 d
Yellowknife
iP' 08 14 11 c

JULY 28
U.S.C.G.S.
19.2S, 71.9W
Off Coast of Northern
Chile
H = 09 37 18
h about 110 km
Mag 4.3 (CGS)
Edmonton
eP 09 49 14 d

JULY 28
Edmonton
eP 11 33 15 d

JULY 28
U.S.C.G.S.
6.7N, 82.5W
South of Panama
H = 11 43 16.4
h about 47 km
Mag 4.1 (CGS)
Edmonton
eP 11 52 28 c

SEISMOLOGICAL BULLETIN - 1963

JULY 28
U.S.C.G.S.
52.6N, 158.9E
Kamchatka
H = 12 11 27.9
h about 33 km
Mag 4.8 (CGS)
Edmonton
eP 12 20 18 c
Mould Bay
iP 12 18 42.5 c
Penticton
eP 12 20 12
Resolute
eP 12 19 34

JULY 28
U.S.C.G.S.
72.0N, 0.0
Jan Mayen Island Region
H = 13 25 18.1
h about 33 km
Mag 4.5 (CGS)
Mould Bay
eP 13 31 (06)

JULY 28
U.S.C.G.S.
51.9N, 174.3W
Andreanof Islands,
Aleutian Islands
H = 14 42 42.7
h about 33 km
Mag 4.0 (CGS)
Edmonton
eP 14 49 45 c
Mould Bay
eP 14 49 10 (d)

JULY 28
U.S.C.G.S.
51.9N, 174.2W
Andreanof Islands,
Aleutian Islands
H = 14 48 07.3
h about 33 km
Mag 4.0 (CGS)
Edmonton
eP 14 55 09 c
Ottawa
eP 14 58 16

JULY 28
U.S.C.G.S.
51.8N, 174.4W
Andreanof Islands,
Aleutian Islands
H = 16 22 44.7
h about 33 km
Mag 4.0 (CGS)
Edmonton
eP 16 29 47

JULY 28
U.S.C.G.S.
4.9S, 152.7E
New Ireland Region
H = 16 32 25.0
h about 69 km
Mag 4.9 (CGS)
Mould Bay
iP 16 45 38 (d)

JULY 28
U.S.C.G.S.
46.6N, 153.1E
Kurile Islands Region
H = 18 51 36.7
h about 33 km
Mag 5.0 (CGS)
Alert
iP 19 00 29 c
Edmonton
eP 19 01 16 c
Mould Bay
iP 18 59 48.5 c

Penticton
eP 19 01 07
Resolute
eP 19 00 36
Schefferville
eP 19 03 (10)
Victoria
eP 19 00 59
Yellowknife
iP 19 00 38 d

JULY 29
Schefferville
eP 05 53 46
Seven Falls
eP 05 54 10

JULY 29
U.S.C.G.S.
27.8N, 55.6E
Southern Iran
H = 06 10 22.6
h about 37 km
MAG 5.2 (CGS)
Alert
iP 06 21 48 c
Edmonton
eP 06 24 02 c
Mould Bay
iP 06 22 09 c
Resolute
eP 06 22 (08)
Schefferville
eP 06 22 52 c
Seven Falls
eP 06 23 26
Yellowknife
iP 06 23 20 d

JULY 29
Mould Bay
eP 07 49 08.5

DOMINION OBSERVATORIES

JULY 29
U.S.C.G.S.
79.3N, 0.6W
Svalbard Region
H = 12 43 12.6
h about 33 km
MAG 4.2 (CGS)
Alert
eP 12 45 30
Mould Bay
eP 12 47 55.5
Resolute
eP 12 47 (36)

JULY 29
Canadian Arctic
H = 13 32 49.5
MAG 3.7
Resolute
Pn 13 34 20.5
13 35 31
Lg 13 36 07
D = 700 km

JULY 29
U.S.C.G.S.
30.2S, 177.3W
Kermadec Islands
H = 20 14 07.3
h about 39 km
MAG 6 1/2-6 3/4 (BKS)
5.7 (CGS)
Alert
eP' 20 32 30
Mould Bay
eP' 20 32 38
Penticton
eP 20 27 23
Port Hardy
iP 20 27 13 d
Resolute
eP' 20 32 (46)
Schefferville
eP' 20 33 (05)
Victoria
eP 20 27 13

JULY 29
U.S.C.G.S.
29.7S, 177.0W
Kermadec Islands
H = 20 16 36.9
h about 33 km
MAG 5.5 (CGS)
Halifax
eP' 20 35 38
Mould Bay
eP' 20 35 (09)
Ottawa
eP' 20 35 20
Schefferville
eP' 20 35 34
Victoria
eP 20 29 42

JULY 29
Mould Bay
eP 20 43 (41)
i 20 46 11.5

JULY 29
H = 21 30 16
MAG 2.1
Penticton
eP 21 30 41.4
iS 21 30 00.8
D = 159 km

JULY 29
H = 22 48 02
MAG 2.4
Penticton
eP 22 48 27.2
iS 22 48 46.6
D = 159 km

JULY 29
U.S.C.G.S.
10.3N, 62.6W
Near Coast of Venezuela
H = 22 55 14.1
h about 39 km
MAG 4.4 (CGS)

Edmonton
eP 23 05 11 (d)
Mould Bay
eP 23 06 37.5

JULY 30
U.S.C.G.S.
29.6S, 177.3W
Kermadec Islands Region
H = 05 45 53.3
h about 33 km
MAG 5.3 (CGS)
Alert
eP' 06 04 44
Edmonton
eP 05 59 33 (c)
Halifax
eP' 06 04 54
Mould Bay
eP' 06 04 23
Penticton
iP 05 59 08
Port Hardy
eP 05 58 57 (d)
Schefferville
eP' 06 04 48
Victoria
eP 05 58 58

JULY 30
U.S.C.G.S.
34.0N, 116.3W
San Bernardino County,
California
H = 06 34 54.8
h about 14 km
MAG 4.7 (CGS)
Edmonton
eP 06 39 22 (c)
Mould Bay
eP 06 42 53

SEISMOLOGICAL BULLETIN - 1963

JULY 30
U.S.C.G.S.
51.7N, 158.1E
Kamchatka
H = 06 52 22.7
h about 33 km
MAG 5.3 (CGS)
Alert
eP 07 00 33
Edmonton
eP 07 01 20 c
Mould Bay
iP 06 59 47 c
Ottawa
eP 07 03 48
Penticton
iP 07 01 13 c
Resolute
eP 07 00 38
Schefferville
iP 07 03 17 c
Yellowknife
iP 07 00 37

JULY 30
Edmonton
eP 08 34 29

JULY 30
U.S.C.G.S.
33.9N, 135.1E
Near Southwest Coast
of Honshu, Japan
H = 08 28 07.1
h about 149 km
MAG 4.3 (CGS)
Edmonton
eP 08 39 33 c
Mould Bay
eP 08 38 05
Penticton
iP 08 39 28

JULY 30
U.S.C.G.S.
29.2S, 112.1W
Easter Island Region
H = 12 57 25.3
h about 33 km
MAG 4.8 (CGS)
Edmonton
eP 13 09 43 (d)

JULY 30
Mould Bay
eP 13 54 39

JULY 30
U.S.C.G.S.
55.9S, 27.5W
Sandwich Islands
H = 13 51 57.8
h about 33 km
MAG 6.2 (CGS)
Alert
eP' 14 11 12
Edmonton
eP' 14 11 02 d
London
iP' 14 10 47 c
Mould Bay
iP' 14 11 26 d
Ottawa
eP' 14 10 47
Penticton
iP' 14 11 03 d
Port Hardy
eP' 14 11 11
Resolute
eP' 14 11 (17)
Schefferville
eP' 14 10 (46)
Victoria
eP' 14 11 22
Yellowknife
iP' 14 11 15

JULY 30
U.S.C.G.S.
29.5S, 177.1W
Kermadec Islands Region
H = 14 23 13.7
h about 33 km
MAG 5.2 (CGS)
Penticton
iP 14 36 28 d
Port Hardy
eP 14 36 18 d

JULY 30
U.S.C.G.S.
59.3N, 151.7W
Kenai Peninsula
H = 17 38 10.2
h about 33 km
MAG 4.4 (CGS)
Alert
eP 17 44 31
Edmonton
eP 17 43 01 d
Mould Bay
eP 17 42 48
Penticton
iP 17 42 52 d
Yellowknife
iP 17 42 20

JULY 30
H = 22 40 42
MAG 2.5
Port Hardy
eP 22 41 07.4
eS 22 41 26
D = 156 km

JULY 31
H = 00 08 08
MAG 3.8
Penticton
eP 00 09 12.6
iS 00 10 10.8
D = 476 km

DOMINION OBSERVATORIES

JULY 31
Edmonton
eP 07 39 24 c

JULY 31
U.S.C.G.S.
71.4N, 8.5W
Jan Mayen Island Region
H = 08 32 12.5
h about 33 km
MAG 4.3 (CGS)
Edmonton
eP 08 40 27 c
Resolute
eP 08 37 27 c

JULY 31
U.S.C.G.S.
41.9N, 142.4E
Near South Coast of
Hokkaido, Japan
H = 11 29 20.4
h about 33 km
MAG 4.5 (CGS)
Edmonton
eP 11 39 59 (d)
Mould Bay
eP 11 38 27.5
Penticton
eP 11 39 53
Resolute
eP 11 39 08

JULY 31
U.S.C.G.S.
42.2N, 142.4E
Off South Coast of
Hokkaido, Japan
H = 15 09 37.6
h about 33 km
MAG 4.3 (CGS)
Mould Bay
i 15 18 43
Penticton
eP 15 20 10
Resolute
eP 15 19 25 c

JULY 31
U.S.C.G.S.
14.5N, 92.2W
Off Coast of Chiapas,
Mexico
H = 15 37 20.3
h about 33 km
MAG 3.9 (CGS)
Mould Bay
eP 15 47 48
Penticton
eP 15 45 06

JULY 31
Resolute
eP 15 59 47

JULY 31
Port Hardy
iP 16 05 22 c

JULY 31
U.S.C.G.S.
22.5S, 176.8W
Tonga Islands
H = 16 20 20.0
h about 267 km
MAG 4.7 (CGS)
Penticton
eP 16 32 40

JULY 31
U.S.C.G.S.
43.1N, 88.3E
Sinkiang Prov., China
H = 21 53 03.6
h about 45 km
MAG 4.7 (CGS)
Mould Bay
iP 22 03 04 c

AUGUST 1
46° 48'N, 66° 30'W
About 25 miles North of
Boies Town, N. B.
H = 06 34 15.5
h 20 km
MAG 3.0
Halifax
Pi 06 35 08.5
i 06 35 15.5
Sn 06 35 38
Lg 06 35 50
D = 331 km
Seven Falls
Pi 06 35 08.5
i 06 35 31
Sn 06 35 38
Lg 06 35 49.5
D = 331 km

AUGUST 1
U.S.C.G.S.
55.3N, 161.8E
Near East Coast of
Kamchatka
H = 10 45 02.7
h about 50 km
MAG 5.0 (CGS)
Banff
eP 10 53 28
Edmonton
eP 10 53 28 c
Mould Bay
iP 10 51 49 c
Penticton
eP 10 53 22
Resolute
eP 10 52 42
Schefferville
iP 10 55 28 d
Yellowknife
iP 10 52 42 d

SEISMOLOGICAL BULLETIN - 1963

AUGUST 1
Mould Bay
eP 12 51 44 c
Resolute
eP 12 52 (38)

AUGUST 1
U.S.C.G.S.
58.3N, 151.9W
Kodiak Island Region
H = 14 46 39.8
h about 40 km
MAG 4.8 (CGS)
Banff
eP 14 51 31
Edmonton
eP 14 51 32 d
Mould Bay
iP 14 51 26
i 14 51 29
S 14 55 27
Penticton
eP 14 51 (21)
Resolute
eP 14 52 (16)
Yellowknife
iP 14 50 (52)

AUGUST 1
U.S.C.G.S.
42.3N, 142.2E
Hokkaido, Japan
H = 18 22 53.2
h about 26 km
MAG 4.3 (CGS)
Mould Bay
eP 18 31 57
Resolute
eP 18 32 41

AUGUST 1
U.S.C.G.S.
44.3N, 85.8E
Sinkiang Prov., China
H = 19 59 02.6
h about 33 km
MAG 4.5 (CGS)
Mould Bay
eP 20 08 50

AUGUST 1
U.S.C.G.S.
52.1N, 173.2E
Near Islands,
Aleutian Islands
H = 21 43 08.6
h about 90 km
MAG 4.4 (CGS)
Edmonton
eP 21 50 58
Mould Bay
iP 21 49 52
Schefferville
eP 21 53 24 d

AUGUST 2
Mould Bay
eP 00 53 51

AUGUST 2
Mould Bay
iP 04 13 48.5

AUGUST 2
U.S.C.G.S.
31.4N, 131.6E
Kyushu, Japan
H = 05 44 36.5
h about 22 km
MAG 4.3 (CGS)
Mould Bay
eP 05 55 10.5

AUGUST 2
Mould Bay
eP 06 34 43

AUGUST 2
48°5N, 122°0W
Washington, U.S.A.
H = 08 28 38
MAG 1.6
Penticton
eP 08 29 08.1
D = 200 km
Victoria
eP 08 28 54.2
S 08 29 06.7
D = 100 km

AUGUST 2
U.S.C.G.S.
56.2N, 34.1W
North Atlantic Ocean
H = 09 07 18.0
h about 41 km
MAG 4.6 (CGS)
Edmonton
eP 09 15 (19)
Halifax
eP 09 12 06 d
Mould Bay
eP 09 14 11
Ottawa
eP 09 13 07
Penticton
eP 09 16 05
Schefferville
eP 09 11 29

AUGUST 2
U.S.C.G.S.
56.3N, 34.5W
North Atlantic Ocean
H = 09 13 46.8
h about 33 km
MAG 4.2 (CGS)
Halifax
eP 09 18 34
Mould Bay
eP 09 20 39.5
Schefferville
eP 09 17 55



DOMINION OBSERVATORIES

AUGUST 2
U.S.C.G.S.
26.8N, 141.3E
Mariana Islands Region
H = 10 20 39.7
h about 109 km
MAG 4.3 (CGS)
Edmonton
eP 10 32 (25)
Mould Bay
eP 10 31 18.5 d
Penticton
eP 10 32 15
Resolute
eP 10 31 57 (d)

AUGUST 2
U.S.C.G.S.
6.0N, 125.1E
Mindanao, Philippine
Islands
H = 19 26 26.0
h about 118 km
Mag 5.0 (CGS)
Mould Bay
eP 19 39 (10)

AUGUST 2
U.S.C.G.S.
40.5N, 125.1W
Off Coast of Northern
California
H = 22 17 25.6
h about 33 km
MAG 5.1 (CGS)
Banff
eP 22 20 25
Penticton
eP 22 19 43

AUGUST 3
U.S.C.G.S.
8.8S, 108.3W
Southwest of
Galapagos Islands
H = 01 09 56
h about 33 km
MAG 4.4 (CGS)
Edmonton
eP 01 20 12 d

AUGUST 3
U.S.C.G.S.
7.6S, 156.8E
Solomon Islands
H = 03 48 06.4
h about 402 km
MAG 5.1 (CGS)
Edmonton
eP 04 00 49 (d)
Ottawa
eP' 04 06 07
Penticton
iP 04 00 29 d
pP 04 02 06
Port Hardy
pP 04 01 45
Victoria
eP 04 00 16
pP 04 01 54

AUGUST 3
U.S.C.G.S.
7.7N, 35.8W
Mid-Atlantic Ocean
H = 10 21 36.6
h about 33 km
MAG 6.1 (CGS)
Banff
eP 10 33 30
Edmonton
iP 10 33 24 d

Halifax
iP 10 29 44 d
London
iP 10 30 52 d
Mould Bay
iP 10 33 51 (c)
Ottawa
iP 10 30 38
Penticton
iP 10 33 45 d
Port Hardy
iP 10 34 12 d
Resolute
eP 10 33 15 d
Scarboro
eP 10 30 46 d
Victoria
eP 10 33 58 d

AUGUST 3
U.S.C.G.S.
7.8N, 35.9W
Mid-Atlantic Ocean
H = 10 34 25.7
h about 33 km
MAG 4.9 (CGS)
Edmonton
eP 10 46 13

AUGUST 3
U.S.C.G.S.
52.0N, 174.3W
Andreanof Islands,
Aleutian Islands
H = 16 29 35.8
h about 33 km
MAG 4.4 (CGS)
Banff
eP 16 36 40
Edmonton
iP 16 36 37 c
Ottawa
eP 16 39 44
Penticton
eP 16 36 20

SEISMOLOGICAL BULLETIN - 1963

AUGUST 3
Mould Bay
eP 19 42 24

AUGUST 3
U.S.C.G.S.
1.4N, 28.2W
Mid-Atlantic Ocean
H = 20 07 19.9
h about 33 km
MAG 4.4 (CGS)
Edmonton
eP 20 19 58 c

AUGUST 3
U.S.C.G.S.
30.7S, 178.3W
Kermadec Islands
H = 20 26 04.1
h about 37 km
MAG 5.2 (CGS)
Halifax
iP' 20 45 06 d
Penticton
iP 20 39 25
Resolute
eP' 20 44 45 (c)
Schefferville
eP' 20 45 03 d

AUGUST 3
H = 22 12 41
MAG 2.0
Penticton
iP 22 13 00.1
iS 22 13 17.2
D = 140 km

AUGUST 4
Edmonton
eP 00 30 39

AUGUST 4
Penticton
e 01 52 (51)
Port Hardy
iP 01 51 52

AUGUST 4
H = 04 17 27
MAG 2.2
Penticton
eP 04 17 52.5
eS 04 18 11.9
D = 162 km

AUGUST 4
U.S.C.G.S.
9.4S, 114.2E
South of Java
H = 07 08 47.1
h about 117 km
MAG 5.5 (CGS)
Edmonton
eP' 07 27 31
Halifax
iP' 07 28 12
Ottawa
e 07 31 43
Schefferville
e 07 31 19

AUGUST 4
U.S.C.G.S.
12.6N, 143.8E
Mariana Islands
H = 13 00 44.7
h about 61 km
MAG 4.6 (CGS)
Mould Bay
eP 13 12 46
Penticton
eP 13 13 14
Resolute
eP 13 13 19

AUGUST 4
H = 11 43 20.3
h about 68 km
MAG 4.7 (CGS)
Edmonton
eP 11 54 31 (c)
Mould Bay
eP 11 53 07.5 (c)
Penticton
eP 11 54 25
Resolute
eP 11 53 49

AUGUST 4
U.S.C.G.S.
4.1S, 80.9W
Near North Coast
of Peru
H = 12 07 24.4
h about 34 km
MAG 4.7 (CGS)
Banff
eP 12 17 46
Edmonton
eP 12 17 50 (c)
Mould Bay
eP 12 19 48
Ottawa
eP 12 16 11
Penticton
iP 12 17 49 c
Schefferville
eP 12 17 27 c

AUGUST 4
U.S.C.G.S.
12.6N, 143.8E
Mariana Islands
H = 13 00 44.7
h about 61 km
MAG 4.6 (CGS)
Mould Bay
eP 13 12 46
Penticton
eP 13 13 14
Resolute
eP 13 13 19

AUGUST 4
Resolute
eP 21 46 47

AUGUST 5
Banff
eP 00 06 11
Edmonton
eP 00 06 19 c
Mould Bay
eP 00 07 03.5

DOMINION OBSERVATORIES

Penticton
iP 00 05 (55)

AUGUST 5
U.S.C.G.S.
17.2N, 99.8W
Near Coast of
Guerrero, Mexico
H = 02 48 41.5
h about 33 km
MAG 4.3 (CGS)
Mould Bay
eP 02 58 47

AUGUST 5
Canadian Arctic
H = 03 46 57.4
MAG 1.4
Resolute
P₁ 03 47 04.0
S₁ 03 47 09.0
D = 41 km

AUGUST 5
Edmonton
eP 08 56 58 d
Schefferville
eP 08 56 36

AUGUST 5
U.S.C.G.S.
9.9S, 79.0W
Near Coast of Peru
H = 08 46 59.7
h about 31 km
MAG 4.8 (CGS)
Edmonton
eP 08 58 05 (d)
Mould Bay
eP 08 59 53
i 09 00 06
Schefferville
eP 08 57 39

AUGUST 5
Mould Bay
eP 11 22 26

AUGUST 5
U.S.C.G.S.
60.7S, 154.3E
Macquarie Island Region
H = 15 39 07.0
h about 33 km
MAG 5.2 (CGS)
Mould Bay
eP' 15 58 42.5
Resolute
eP' 15 59 04
Schefferville
eP' 15 59 (04)

AUGUST 5
Yellowknife
i 18 59 06

AUGUST 6
U.S.C.G.S.
45.1N, 111.4W
Southwestern Montana
H = 05 20 32.0
h about 33 km
MAG 3.7 (CGS)
Penticton
eS 05 23 (31)

AUGUST 6
H = 12 46 22
MAG 2.2
Port Hardy
eP 12 46 42.3
eS 12 47 02.1
D = 163 km

AUGUST 6
U.S.C.G.S.
57.0N, 33.6W
North Atlantic Ocean
H = 13 36 35.6
h about 33 km
MAG 5.1 (CGS)
Banff
eP 13 44 53
Edmonton
eP 13 44 35 d

Halifax
eP 13 41 31
Mould Bay
iP 13 43 23.5 c
Penticton
iP 13 45 19 d
Resolute
eP 13 42 31 c
Schefferville
eP 13 40 50 c

AUGUST 6
Penticton
eP 19 44 09

AUGUST 7
U.S.C.G.S.
54.0N, 142.1E
Sakhalin Island, U.S.S.R.
H = 04 33 42.7
h about 33 km
MAG 5.1 (CGS)
Alert
eP 04 41 43
Edmonton
eP 04 43 21 c
Frobisher
iP 04 43 48 c
Mould Bay
eP 04 41 19
Ottawa
eP 04 45 26
Penticton
eP 04 43 22
Resolute
eP 04 42 06 c
Schefferville
eP 04 44 45 c

AUGUST 7
Mould Bay
eP 07 21 37.5

SEISMOLOGICAL BULLETIN - 1963

AUGUST 7
U.S.C.G.S.
7.5N, 37.2W
Atlantic Ocean
H = 07 17 25.8
h about 33 km
MAG 4.6 (CGS)
Alert
eP 07 29 07
Edmonton
eP 07 29 08 (c)
Mould Bay
eP 07 29 38
Schefferville
eP 07 26 37

AUGUST 7
U.S.C.G.S.
20.0S, 178.3W
Fiji Islands
H = 11 15 07.6
h about 600 km
MAG 4.5 (CGS)
Penticton
iP 11 26 48

AUGUST 7
U.S.C.G.S.
56.1S, 27.0W
Sandwich Islands
H = 17 13 18.4
h about 33 km
MAG 5.4 (CGS)
Mould Bay
iP* 17 32 47 d

AUGUST 7
U.S.C.G.S.
13.6N, 90.9W
Near South Coast
of Guatemala
H = 18 36 46.6
h about 67 km
MAG 4.7 (CGS)
Banff
eP 18 44 37

Edmonton
eP 18 44 (43)
Mould Bay
iP 18 47 17 d
Ottawa
eP 18 43 27
Penticton
iP 18 44 40 c
Resolute
eP 18 46 54 c
Schefferville
eP 18 44 57 c
Victoria
eP 18 44 48 c

AUGUST 7
Edmonton
eP 20 50 32
Mould Bay
eP 20 52 52

AUGUST 8
U.S.C.G.S.
54.2N, 168.1E
Fox Islands,
Aleutian Islands
H = 02 14 54.4
h about 33 km
MAG 5.5 (CGS)
Alert
eP 02 22 37
Banff
eP 02 23 01
Edmonton
iP 02 23 02 d
Halifax
eP 02 26 17 d
London
eP 02 25 42
Mould Bay
iP 02 21 37.7 c
Ottawa
eP 02 25 43
Penticton
iP 02 22 53 d

Port Hardy
iP 02 22 13 d
Resolute
eP 02 22 31 (d)
Schefferville
iP 02 25 15 c
Victoria
iP 02 22 41 d

AUGUST 8
U.S.C.G.S.
29.8N, 138.8E
South of Honshu, Japan
H = 03 09 51.7
h about 458 km
MAG 3.8 (CGS)
Mould Bay
eP 03 19 41 c

AUGUST 8
H = 04 48 48
MAG 1.9
Port Hardy
eP 04 49 18.7
eS 04 49 42.0
D = 190 km

AUGUST 8
Mould Bay
eP 05 59 16

AUGUST 8
Edmonton
eP 06 34 43 (d)

AUGUST 8
U.S.C.G.S.
35.9S, 103.6W
Easter Island Region
H = 10 58 23.1
h about 33 km
MAG 4.7 (CGS)
Banff
eP 11 11 08
Edmonton
eP 11 11 16

DOMINION OBSERVATORIES

Penticton
iP 11 11 01

AUGUST 8
U.S.C.G.S.
5.8S, 151.0E

New Britain
H = 11 16 11.2
h about 48 km
MAG 5 (BKS),
5.6 (CGS)

Banff
eP 11 29 37

Edmonton
eP 11 29 43

Mould Bay
eP 11 29 30

Penticton
iP 11 29 25

AUGUST 8
U.S.C.G.S.
27.3N, 129.2E

Ryukyu Islands
H = 11 41 30.5
h about 92 km
MAG 4.4 (CGS)

Mould Bay
eP 11 52 23.5
i 11 52 35

Resolute
eP 11 52 59 (d)

AUGUST 8
U.S.C.G.S.
18.3N, 145.3E

Mariana Islands Region
H = 13 53 42.2
h about 423 km
MAG 4.9 (CGS)

Edmonton
iP 14 05 18 d

Mould Bay
iP 14 04 31.5

Penticton
iP 14 05 05 d

Port Hardy
eP 14 04 37 (d)

Resolute
eP 14 05 06 (c)

Victoria
eP 14 04 53 d

AUGUST 9
Penticton
eP 00 18 04

AUGUST 9
U.S.C.G.S.
14.2N, 92.3W

Guatemala
H = 01 17 37.8
h about 33 km
MAG 4.1 (CGS)

Edmonton
eP 01 25 30

Mould Bay
eP 01 28 08

Penticton
eP 01 25 24

Yellowknife
iP 01 26 36

AUGUST 9
U.S.C.G.S.
44.5N, 11.9E

Northern Italy
H = 06 05 32.2
h about 33 km
MAG 4.9 (CGS)

Alert
eP 06 13 38

Banff
eP 06 17 08

Edmonton
eP 06 16 (53)

Mould Bay
eP 06 15 05 c

Penticton
iP 06 17 25

Yellowknife
iP 06 16 11 d

AUGUST 9
Edmonton
eP 08 51 26 c

Mould Bay
eP 08 49 54.5
i 08 51 59

Penticton
eP 08 51 19

AUGUST 9
Alert
eP 09 03 11

AUGUST 9
U.S.C.G.S.
51.6N, 178.8W

Andreanof Islands,
Aleutian Islands
H = 12 20 02.2
h about 33 km
MAG 4.5 (CGS)

Edmonton
eP 12 27 24 c

Mould Bay
eP 12 26 40
i 12 29 16

Penticton
iP 12 27 10

Yellowknife
iP 12 26 54

AUGUST 9
U.S.C.G.S.
15.3S, 175.7W

Fiji Islands Region
H = 14 36 45.9
h about 33 km
MAG 5.5 (CGS)

Banff
eP 14 49 17

Edmonton
eP 14 49 27 (c)

Mould Bay
eP 14 50 16

Penticton
iP 14 49 01

SEISMOLOGICAL BULLETIN - 1963

Port Hardy
eP 14 48 44

Victoria
eP 14 48 44

Yellowknife
eP 14 49 (47)

AUGUST 9
Mould Bay
eP 23 41 30

AUGUST 10
U.S.C.G.S.
28.1N, 53.3E

Southern Iran
H = 04 27 33.5
h about 46 km
MAG 4.8 (CGS)

Alert
eP 04 38 (14)

Mould Bay
eP 04 39 16

Schefferville
eP 04 39 54

AUGUST 10
U.S.C.G.S.
24.7N, 142.7E

Volcano Islands Region
H = 13 17 47.1
h about 33 km
MAG 5.0 (CGS)

Banff
eP 13 29 44

Edmonton
eP 13 29 46 d

Mould Bay
eP 13 28 45

Penticton
iP 13 29 35 d

Resolute
eP 13 29 22.5

AUGUST 10
U.S.C.G.S.
8.8N, 82.9W

Panama - Costa
Rica Border
H = 18 37 45.3
h about 33 km
MAG 4.3 (CGS)

Edmonton
eP 18 46 42

Mould Bay
eP 18 48 (56)

Penticton
eP 18 46 44

AUGUST 10
Penticton
eP 20 56 52

AUGUST 10
U.S.C.G.S.
49.6N, 179.2E

Rat Islands,
Aleutian Islands
H = 21 03 39
h about 33 km
MAG 4.3 (CGS)

Penticton
iP 21 10 59 c

AUGUST 10
H = 22 37 06
MAG 1.7

Penticton
eP 22 37 31.0
eS 22 37 50.4
D = 159 km

AUGUST 10
H = 22 46 33
MAG 1.7

Penticton
iP 22 47 03.6
iS 22 47 27.2
D = 193 km

AUGUST 10
49°35'N, 115°25'W

Near Cranbrook, B.C.
H = 23 43 37
MAG 2.0

Banff
eP 23 44 04.3
eS 23 44 28.3
D = 170 km

Penticton
eP 23 44 20.3
eS 23 44 54.0
D = 300 km

AUGUST 11
H = 01 17 43
MAG 2.1

Penticton
eP 01 18 15.2
eS 01 18 40.0
D = 203 km

AUGUST 11
U.S.C.G.S.
60.5S, 154.9E

Balleny Islands Region
H = 01 34 22.2
h about 33 km
MAG 5.4 (CGS)

Mould Bay
eP' 01 54 02

Ottawa
eP' 01 54 11

AUGUST 11
U.S.C.G.S.
38.8N, 140.9E

Near East Coast of
Northern Honshu, Japan
H = 07 37 20.4
h about 45 km
MAG 5.0 (CGS)

Banff
eP 07 48 18

Edmonton
eP 07 48 17 c

DOMINION OBSERVATORIES

Mould Bay
eP 07 46 48 (c)
Penticton
iP 07 48 11
Resolute
iP 07 47 30 d
Schefferville
eP 07 49 46
Victoria
eP 07 48 01

AUGUST 11
U.S.C.G.S.
38.1S, 73.1W
Near Coast of
Southern Chile
H = 10 03 05.1
h about 60 km
MAG 5.0 (CGS)
Ottawa
eP 10 15 26
Penticton
eP 10 16 28

AUGUST 11
H = 14 18 22
MAG 1.8
Port Hardy
eP 14 18 49.8
eS 14 19 10.7
D = 171 km

AUGUST 11
Edmonton
eP 19 31 (54)
Mould Bay
eP 19 31 01
i 19 33 (00)

AUGUST 11
U.S.C.G.S.
36.2N, 71.2E
Hindu Kush
H = 19 40 52.2
h about 148 km

Mould Bay
eP 19 51 34
i 19 52 24

AUGUST 11
H = 20 45 41
MAG 1.6
Port Hardy
eP 20 46 08.8
eS 20 46 29.9
D = 172 km

AUGUST 12
U.S.C.G.S.
32.5S, 71.1W
Near Coast of
Central Chile
H = 01 05 34.1
h about 92 km
MAG 4.7 (CGS)
Edmonton
eP 01 18 36 (c)
Ottawa
eP 01 17 20
Penticton
iP 01 18 35 d
Schefferville
eP 01 18 10 (c)

AUGUST 12
H = 02 01 33
MAG 1.8
Penticton
eP 02 01 52.6
eS 02 02 28.0
D = 208 km

AUGUST 12
U.S.C.G.S.
38.1N, 88.7E
Sinkiang Prov., China
H = 03 01 37.7
h about 33 km
Mould Bay
eP 03 12 12.5

AUGUST 12
U.S.C.G.S.
27.7N, 53.2E
Near Southwest Coast
of Iran
H = 07 19 54.9
h about 33 km
MAG 5.0 (CGS)
Mould Bay
eP 07 31 41.5
Schefferville
eP 07 32 20

AUGUST 12
U.S.C.G.S.
2.1N, 90.4W
Galapagos Islands
H = 13 06 46.1
h about 33 km
MAG 4.6 (CGS)
Banff
eP 13 16 06
Edmonton
eP 13 16 11
Mould Bay
eP 13 18 30
Penticton
eP 13 16 03
Port Hardy
eP 13 16 33
Yellowknife
eP 13 17 11

AUGUST 12
Edmonton
eP 13 21 34
Penticton
eP 13 21 25
Yellowknife
iP 13 22 33 c

SEISMOLOGICAL BULLETIN - 1963

AUGUST 12
47.2N, 120.9W
Central Washington, U.S.A.
H = 14 07 15
MAG 2.1
Penticton
eP 14 07 52.0
eS 14 08 22.8
D = 252 km
Victoria
eP 14 07 50
D = 232 km

AUGUST 12
U.S.C.G.S.
9.8N, 84.2W
Costa Rica
H = 17 19 05.3
h about 114 km
MAG 4.2 (CGS)
Mould Bay
iP 17 30 00

AUGUST 12
U.S.C.G.S.
25.3N, 62.7E
Near Coast of
West Pakistan
H = 18 29 38.8
h about 33 km
MAG 5.2 (CGS)
Mould Bay
eP 18 41 40.5 c

AUGUST 12
U.S.C.G.S.
21.9S, 175.7W
Tonga Islands
H = 20 59 08.0
h about 33 km
MAG 4.6 (CGS)
Penticton
eP 21 11 51

AUGUST 12
U.S.C.G.S.
56.0S, 27.7W
Sandwich Islands Region
H = 21 14 00.1
h about 33 km
Mould Bay
eP' 21 33 27.5 d

AUGUST 13
U.S.C.G.S.
55.0N, 156.4W
Kodiak Island Region
H = 03 26 45.4
h about 33 km
MAG 5.0 (CGS)
Alert
eP 03 33 50 (d)
Banff
iP 03 32 04
Edmonton
iP 03 32 09 d
Mould Bay
iP 03 32 13 d
S 03 36 39
Ottawa
eP 03 35 35
Penticton
eP 03 31 47
Port Hardy
eP 03 30 53
Resolute
eP 03 32 58 d
Schefferville
eP 03 35 23 d
Yellowknife
iP 03 31 45

AUGUST 13
Penticton
eP 03 52 14

AUGUST 13
U.S.C.G.S.
7.2S, 124.5E
Banda Sea
H = 04 53 58.8
h about 542 km
MAG 5.3 (CGS)
Banff
eP' 05 11 38
Edmonton
eP' 05 11 39
Mould Bay
eP 05 06 (59)

AUGUST 13
U.S.C.G.S.
20.6S, 178.5W
Fiji Islands
H = 06 29 19.1
h about 562 km
MAG 4.6 (CGS)
Banff
eP 06 41 21
Edmonton
eP 06 41 30 d
Penticton
iP 06 41 06 d

AUGUST 13
U.S.C.G.S.
19.1S, 173.9W
Tonga Islands
H = 06 52 06.1
h about 28 km
MAG 4.7 (CGS)
Edmonton
eP 07 04 59 d
Penticton
eP 07 04 33

DOMINION OBSERVATORIES

AUGUST 13
U.S.C.G.S.
36.6N, 70.9E
Hindu Kush
H = 07 03 49.6
h about 244 km
MAG 4.7 (CGS)
Edmonton
eP 07 16 26
Mould Bay
iP 07 14 19
pP 07 15 17
Penticton
eP 07 16 42
Schefferville
eP 07 15 44
Yellowknife
iP 07 15 39
pP 07 16 39

AUGUST 13
U.S.C.G.S.
3.1S, 80.4W
Near Coast of Ecuador
H = 12 39 55.3
h about 66 km
MAG 4.3 (CGS)
Edmonton
eP 12 50 13
Mould Bay
eP 12 52 11 c
Penticton
eP 12 50 12

AUGUST 13
Victoria
iP 13 05 37 d

AUGUST 13
U.S.C.G.S.
76.2N, 6.4E
Svalbard Region
H = 13 28 02.2
h about 33 km
MAG 4.7 (CGS)

Alert
eP 13 31 00
Edmonton
eP 13 36 18 d
Mould Bay
eP 13 33 20
Resolute
eP 13 32 59
iS 13 36 56

AUGUST 13
47°3N, 121°6W
Central Washington,
U.S.A.
H = 15 03 58
MAG 2.6
Penticton
eP 15 04 37.8
eS 15 05 22.6
D = 273 km
Victoria
eP 15 04 35.0 d
D = 190 km

AUGUST 13
U.S.C.G.S.
19.3S, 173.7W
Tonga Islands
H = 21 52 37.4
h about 33 km
MAG 5.1 (CGS)
Banff
eP 22 05 19
Edmonton
eP 22 05 30
Penticton
iP 22 05 04 c
Port Hardy
eP 22 04 (50)

AUGUST 13
U.S.C.G.S.
27.2N, 140.1E
Bonin Islands Region
H = 23 00 24.8
h about 448 km
MAG 4.8 (CGS)
Alert
iP 23 10 52 d
Edmonton
iP 23 11 36 d
Mould Bay
iP 23 10 28 d
Penticton
eP 23 11 26
Yellowknife
iP 23 11 08 d

AUGUST 14
Penticton
eP 01 37 31

AUGUST 14
Mould Bay
eP 02 06 56.5
Yellowknife
iP 02 06 38 d

AUGUST 14
U.S.C.G.S.
21.4S, 175.2W
Fiji Islands Region
H = 02 46 44.1
h about 33 km
MAG 4.7 (CGS)
Penticton
eP 02 59 23

AUGUST 14
U.S.C.G.S.
4.9S, 152.3E
New Britain
H = 03 32 33.5
h about 62 km
Mag 5.8 (CGS)
Banff
eP 03 45 52

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Edmonton
eP 03 45 58
Mould Bay
iP 03 45 47 d
Penticton
eP 03 45 39

AUGUST 14
U.S.C.G.S.
83.6N, 4.6W
Svalbard Region
H = 13 46 02.0
h about 33 km
MAG 4.6 (CGS)
Alert
eP 13 47 42
i 13 48 55

AUGUST 14
U.S.C.G.S.
22.3S, 68.7W
Northern Chile
H = 14 32 36.7
h about 120 km
MAG 5.1 (CGS)
Banff
eP 14 44 54
Edmonton
iP 14 44 57 d
Penticton
iP 14 44 57 d
Schefferville
eP 14 44 16
Victoria
eP 14 45 05 d
Yellowknife
iP 14 45 33 c

AUGUST 14
U.S.C.G.S.
24.1N, 122.4E
Off Coast of Formosa
H = 16 18 18.0
h about 28 km
MAG 5.3 (CGS)
Edmonton
eP 16 31 12
Mould Bay
(iP) 16 29 45

Penticton
eP 16 31 09

AUGUST 14
Alert
eP 16 39 59
i 16 41 15

AUGUST 14
Mould Bay
iP 17 44 12 d

AUGUST 14
U.S.C.G.S.
3.4S, 135.4E
West Irian
H = 18 43 55.5
h about 33 km
MAG 6.4 (CGS)
Alert
eP 18 57 41
Mould Bay
eP 18 57 23 c
Schefferville
iP 19 02 56 d

AUGUST 15
U.S.C.G.S.
27.9N, 139.6E
Bonin Islands
H = 02 17 16.9
h about 476 km
MAG 4.7 (CGS)
Alert
eP 02 27 38 c
Banff
eP 02 28 21
Mould Bay
iP 02 27 15 c
e 02 28 48
Penticton
iP 02 28 16 c
Port Hardy
eP 02 27 45.4 c
Resolute
eP 02 27 51.5 c

Victoria
eP 02 28 05
Yellowknife
iP 02 27 56 c

AUGUST 15
U.S.C.G.S.
37.9N, 141.6E
Near East Coast of
Honshu, Japan
H = 06 11 34.6
h about 59 km
Alert
iP 06 21 32 c
Banff
eP 06 22 32
Frobisher
iP 06 23 16.5 c
iS 06 32 54
London
eP 06 24 32 c
Mould Bay
iP 06 21 06 c
S 06 28 49
Ottawa
eP 06 24 30
Penticton
iP 06 22 25 c
Port Hardy
eP 06 21 51
Resolute
iP 06 21 48 c
Scarboro
iP 06 24 34 c
Schefferville
eP 06 24 03 c
Victoria
eP 06 22 15
Yellowknife
eP 06 21 56 c

AUGUST 15
Alert
eP 08 13 (12)
Mould Bay
eP 08 13 08.5

DOMINION OBSERVATORIES

AUGUST 15
45°12'N, 74°52'W
In the St. Lawrence between
Massena N. Y. and Long
Sault Ontario.
H = 14 08 06
MAG 2.0
Montreal
eP 14 08 14.5
iS₁ 14 08 28.5
D = 115 km
Ottawa
S₁ 14 08 19.4
D = 83 km

AUGUST 15
U.S.C.G.S.
10.0S, 78.6W
Near Coast of
Central Peru
H = 14 36 01.2
h about 80 km
MAG 4.4 (CGS)
Mould Bay
eP 14 48 51

AUGUST 15
U.S.C.G.S.
20.0S, 178.9W
Fiji Islands
H = 14 57 51.1
h about 298 km
MAG 4.2 (CGS)
Penticton
eP 15 10 09

AUGUST 15
U.S.C.G.S.
13.8S, 69.3W
Peru - Bolivia Border
H = 17 25 05.9
h about 543 km
MAG 7 3/4 (PAS),
8 (BKS)
Alert
eP 17 37 36
S 17 47 32

Banff
iP 17 36 00
Halifax
iP 17 34 10 c
London
iP 17 34 05 d
Mould Bay
iP 17 37 30 d
Ottawa
iP 17 34 16
Penticton
iP 17 36 03 d
Port Hardy
eP 17 36 28.6 d
Resolute
eP 17 37 07 c
Scarboro
iP 17 34 12 d
Schefferville
iP 17 35 13 c
Victoria
eP 17 36 11
Yellowknife
iP 17 36 38 c

AUGUST 15
Mould Bay
eP 18 37 20

AUGUST 15
Edmonton
eP 19 02 (24)

AUGUST 15
Edmonton
eP 19 13 58 (c)

AUGUST 15
Penticton
eP 22 15 30

AUGUST 15
U.S.C.G.S.
21.0S, 179.2W
Fiji Islands
H = 22 29 47.1
h about 597 km
MAG 4.9 (CGS)
Penticton
iP 22 41 34
Port Hardy
eP 22 41 19.3 d

AUGUST 16
U.S.C.G.S.
48.8N, 155.0E
Kurile Islands Region
H = 07 05 26.1
h about 33 km
MAG 4.5 (CGS)
Edmonton
eP 07 14 48 (c)

AUGUST 16
U.S.C.G.S.
12.8S, 14.5W
South Atlantic Ocean
H = 23 06 24.6
h about 33 km
MAG 5.1 (CGS)
Ottawa
eP 23 18 32

AUGUST 16
U.S.C.G.S.
48.9S, 122.8E
South of Australia
H = 23 19 31.1
h about 33 km
Alert
eP' 23 39 08
Edmonton
eP' 23 39 (04)
Resolute
eP' 23 39 18

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AUGUST 17
U.S.C.G.S.
20.0S, 174.0W
Tonga Islands
H = 05 33 40.1
h about 33 km
MAG 4.6 (CGS)
Penticton
eP 05 46 11

AUGUST 17
U.S.C.G.S.
52.4N, 168.7W
Fox Islands,
Aleutian Islands
H = 06 17 36.4
h about 33 km
MAG 4.3 (CGS)
Edmonton
eP 06 24 08

AUGUST 17
U.S.C.G.S.
30.6N, 130.9E
Ryukyu Islands Region
H = 11 12 41.2
h about 33 km
MAG 5.6 (CGS)
Alert
iP 11 23 32 c
S 11 32 24
Banff
eP 11 24 48
Edmonton
eP 11 24 47 c
Frobisher
iP 11 25 12 c
iS 11 35 38
Mould Bay
iP 11 23 19.5 c
i 11 23 32.5
iS 11 31 59
Penticton
iP 11 24 42 c
Port Hardy
eP 11 24 13.2

Resolute
iP 11 23 58 c
Victoria
eP 11 24 33 c

AUGUST 17
U.S.C.G.S.
17.7N, 94.3W
Veracruz, Mexico
H = 11 34 23.4
h about 163 km
MAG 4.9 (CGS)
Alert
eP 11 44 53 c
Banff
eP 11 41 23
Edmonton
eP 11 41 30 a
Frobisher
iP 11 42 56 d
Mould Bay
iP 11 44 14.0 c
i 11 44 55
Ottawa
eP 11 40 31
Penticton
iP 11 41 24 d
Victoria
iP 11 41 34 d

AUGUST 17
U.S.C.G.S.
32.1N, 40.9W
North Atlantic Ocean
H = 22 15 22.2
h about 33 km
MAG 4.8 (CGS)
Frobisher
eP 22 22 24 c
Halifax
eP 22 20 15

AUGUST 18
47°5N, 122°6W
Central Washington,
U.S.A.
H = 00 24 26
MAG 3.2
Banff
eP 00 25 54
Penticton
eP 00 25 09.0
eS 00 25 45.5
D = 298 km
Port Hardy
eP 00 25 33.6
D = 498 km
Victoria
iP 00 25 45.9
D = 125 km

AUGUST 18
U.S.C.G.S.
35.9N, 139.2E
Central Honshu, Japan
H = 07 09 51.6
h about 153 km
MAG 4.8 (CGS)
Alert
iP 07 19 53 d
Edmonton
eP 07 20 55 d
Frobisher
eP 07 21 30.5 d

AUGUST 18
U.S.C.G.S.
19.5N, 45.4W
North Atlantic Ocean
H = 15 58 14.3
h about 33 km
MAG 4.2 (CGS)
Alert
eP 16 08 46
Edmonton
eP 16 08 (29)

DOMINION OBSERVATORIES

AUGUST 18
U.S.C.G.S.
50.3N, 176.9W
Andreanof Islands,
Aleutian Islands
H = 18 43 16.1
h about 33 km
MAG 5.5 (CGS)
Alert
eP 18 51 17
Banff
iP 18 50 31
Edmonton
iP 18 50 36 d
Halifax
eP 18 54 21 (d)
London
iP 18 53 33 d
Mould Bay
iP 18 50 00 d
i 18 52 35
S 18 55 20
Ottawa
iP 18 53 39
Penticton
iP 18 50 19 d
Resolute
eP 18 50 51.5
Schefferville
iP 18 53 22 d
Victoria
eP 18 50 00

AUGUST 18
Edmonton
eP 19 28 49 (d)

AUGUST 18
U.S.C.G.S.
22.5S, 175.2W
Tonga Islands
H = 20 18 29.9
h about 33 km
MAG 4.7 (CGS)
Penticton
eP 20 31 12

AUGUST 18
U.S.C.G.S.
32.1S, 178.1W
Kermadec Islands Region
H = 20 27 41.9
h about 33 km
MAG 5.0 (CGS)
Schefferville
eP¹ 20 46 43

AUGUST 18
U.S.C.G.S.
14.2S, 71.9W
Southern Peru
H = 23 07 54.2
h about 31 km
MAG 4.6 (CGS)
Edmonton
eP 23 19 39 (c)

AUGUST 19
Canadian Arctic
H = 02 21 58.5
MAG 1.9
Alert
iP₁ 02 22 12.8
iS₁ 02 22 23.7
D = 89.5 km

AUGUST 19
U.S.C.G.S.
45.6S, 95.7E
Indian Ocean
H = 07 29 40.5
h about 33 km
Mould Bay
eP¹ 07 49 18.5

AUGUST 19
U.S.C.G.S.
40.9N, 126.0W
Off Coast of
Northern California
H = 09 39 00
h about 33 km
MAG 4.1 (CGS)

Edmonton
eP 09 42 37 c

AUGUST 19
U.S.C.G.S.
59.8S, 25.9W
Sandwich Islands Region
H = 09 51 25.2
h about 33 km
Alert
eP¹ 10 10 51 (d)
Edmonton
eP¹ 10 10 33
Mould Bay
eP¹ 10 11 02.5
Yellowknife
iP¹ 10 10 46

AUGUST 19
U.S.C.G.S.
45.7S, 95.9E
Indian Ocean
H = 11 49 26.4
h about 33 km
Mould Bay
eP¹ 12 09 03

AUGUST 19
Canadian Arctic
H = 15 26 02.4
MAG 2.0
Mould Bay
eP 15 26 30.0
i 15 26 33.0
i 15 26 46.5
iS₁ 15 26 51.0
D = 172 km

AUGUST 19
Victoria
eP 22 19 36

AUGUST 20
Victoria
eP 03 00 37

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AUGUST 20
H = 06 09 00
Mag 2.2
Port Hardy
iP 06 09 32.3
iS 06 09 56.7
D = 200 km

AUGUST 20
Victoria
iP 08 07 54 (d)

AUGUST 20
U.S.C.G.S.
16.0N, 92.4W
Chiapas, Mexico.
H = 09 25 38.9
h about 193 km
Mag 4.2 (CGS)
Edmonton
eP 09 33 02 c
Penticton
eP 09 32 56

AUGUST 20
U.S.C.G.S.
4.1N, 76.5W
Colombia
H = 13 19 50.3
h about 59 km
Mag 4.5 (CGS)
Penticton
iP 13 29 39

AUGUST 20
U.S.C.G.S.
41.2N, 142.7E
Off East Coast of
Honshu, Japan.
H = 15 48 12.2
h about 50 km
Mag 4.5 (CGS)
Alert
eP 15 57 46 (c)
S 16 05 29

Edmonton
eP 15 58 51
Mould Bay
eP 15 57 19.5 c
Penticton
eP 15 58 44
Port Hardy
eP 15 58 11
Resolute
eP 15 58 02
Schefferville
eP 16 00 23
Victoria
eP 15 58 34

AUGUST 20
U.S.C.G.S.
0.0, 80.9W
Off Coast of Ecuador
H = 20 14 31
h about 64 km
Mag 4.2 (CGS)
Penticton
eP 20 24 30

AUGUST 20
Victoria
eP 22 30 43 c

AUGUST 20
Mould Bay
e(P) 23 27 45

AUGUST 21
U.S.C.G.S.
14.3N, 72.5W
Caribbean Sea
H = 03 39 22.6
h about 33 km
Mag 5.4 (CGS)
Alert
eP 03 50 22 c
S 03 59 20
Banff
eP 03 48 18

Edmonton
eP 03 48 18
London
iP 03 45 27 c
Mould Bay
iP 03 50 10 c
i 03 50 23
eP 03 45 40 (c)
Ottawa
eP 03 45 40 (c)
Penticton
eP 03 48 29
Resolute
eP 03 49 38
Scarboro
iP 03 45 30 c
Schefferville
iP 03 47 03 c
Victoria
iP 03 48 43 c
Yellowknife
iP 03 49 02

AUGUST 21
H = 12 38 04
Mag 2.2
Port Hardy
iP 12 38 32.3
iS 12 38 53.7
D = 175 km

AUGUST 21
U.S.C.G.S.
49.0N, 158.2E
Kurile Islands Region
H = 18 02 44.4
h about 33 km
Mag 4.9 (CGS)
Penticton
eP 18 11 45

AUGUST 21
Canadian Arctic
H = 22 40 41.4
Mag 1.3
Resolute
P₁ 22 40 44
S₁ 22 40 46
D = 16.4 km

DOMINION OBSERVATORIES

<p>AUGUST 22 U.S.C.G.S. 63.2N, 148.5W Central Alaska H = 03 58 43.2 h about 101 km Mag 4.6 (CGS) Alert eP 04 04 21 Banff eP 04 03 16 Edmonton eP 04 03 17 (d) Mould Bay eP 04 02 26.5 i 04 05 14 Penticton iP 04 03 20 Resolute eP 04 03 (25) Yellowknife eP 04 02 17</p> <p>AUGUST 22 Victoria eP 07 55 00</p> <p>AUGUST 22 U.S.C.G.S. 42.0N, 126.2W Off Coast of Oregon H = 09 27 09.3 h about 33 km Mag 5.6 (CGS) Alert eP 09 35 26 d Banff eP 09 29 56 Edmonton eP 09 30 26 (c) London eP 09 33 44 (c) Mould Bay eP 09 33 56.5 eS 09 39 (28)</p>	<p>Penticton iP 09 29 13 d Port Hardy iP 09 29 16.7 d Resolute eP 09 34 06 Schefferville eP 09 34 46 Victoria eP 09 28 48 d Yellowknife eP 09 31 57</p> <p>AUGUST 22 Victoria e 12 35 11 e 12 36 22</p> <p>AUGUST 22 Edmonton eP 18 13 48 (d) Mould Bay eP 18 16 11 d Penticton eP 18 13 23</p> <p>AUGUST 22 U.S.C.G.S. 3.8S, 104.2W About 1500 km West of Galapagos Islands H = 18 18 49.3 h about 33 km Mag 4.3 (CGS) Edmonton eP 18 28 35 Mould Bay eP 18 30 58.5 (d) Penticton eP 18 28 11</p> <p>AUGUST 22 U.S.C.G.S. 9.4 S, 158.0E Solomon Islands H = 19 52 25.0</p>	<p>h about 33 km Mag 6 3/4 - 7 (PAS), 6 - 6 1/4 (BRK), 6.1 (CGS) Banff eP 20 05 46 Edmonton eP 20 05 52 c Mould Bay eP 20 05 56 i 20 16 34 Ottawa eP' 20 11 18 Penticton eP 20 05 28 Port Hardy eP 20 05 13 Victoria eP 20 05 22 Yellowknife eP 20 05 55</p> <p>AUGUST 22 H = 20 10 27 Mag 1.1 Alberni iP 20 10 46.1 D = 120 km Victoria iP 20 10 31.4 iS 20 10 34.9 D = 29 km</p> <p>AUGUST 22 H = 20 36 46 Mag 2.3 Port Hardy iP 20 37 23.4 iS 20 37 44.3 D = 171 km</p> <p>AUGUST 22 U.S.C.G.S. 4.3N, 76.4W Colombia H = 23 20 21.1 h about 100 km Mag 4.9 (CGS)</p>
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<p>Edmonton eP 23 30 (00) Mould Bay eP 23 31 56 d Penticton iP 23 30 05 c Victoria eP 23 30 15 c Yellowknife iP 23 30 48</p> <p>AUGUST 23 Mould Bay eP 12 26 03</p> <p>AUGUST 23 U.S.C.G.S. 52.4N, 159.6E Off East Coast of Kamchatka H = 13 09 25.3 h about 33 km Mag 4.5 (CGS) Alert eP 13 17 29 Edmonton eP 13 18 14 Mould Bay eP 13 16 40 Penticton eP 13 18 09 Resolute eP 13 17 (27)</p> <p>AUGUST 23 U.S.C.G.S. 17.3S, 67.8W Peru-Bolivia Border H = 13 35 57 h about 33 km Mag 4.5 (CGS) Penticton eP 13 48 08</p> <p>AUGUST 23 H = 15 22 04 Mag 2.1</p>	<p>Port Hardy iP 15 22 23.9 iS 15 22 39.3 D = 126 km</p> <p>AUGUST 24 U.S.C.G.S. 22.4S, 68.5W Northern Chile H = 01 41 40.5 h about 66 km Mag 4.7 (CGS) Edmonton eP 01 54 08 (c) Penticton eP 01 54 09 Schefferville eP 01 53 28</p> <p>AUGUST 24 U.S.C.G.S. 54.3S, 5.2E Bouvet Island Region H = 02 11 58.3 h about 28 km Banff eP' 02 31 25 Edmonton eP' 02 31 31 d Mould Bay eP' 02 31 (46) Penticton iP' 02 31 37 Resolute eP' 02 31 29 Victoria eP' 02 31 41 Yellowknife iP' 02 31 42 (d)</p>	<p>AUGUST 24 Canadian Arctic H = 09 12 22.7 Mag 2.6 Resolute iP₁ 09 12 36.5 iS₁ 09 12 47 D = 86 km</p> <p>AUGUST 24 Alert i 09 34 03</p> <p>AUGUST 24 U.S.C.G.S. 51.0N, 179.4E Rat Islands, Aleutian Islands H = 10 58 28.2 h about 33 km Mag 4.0 (CGS) Edmonton eP 11 06 (00)</p> <p>AUGUST 25 U.S.C.G.S. 48.7N, 148.8E Sea of Okhotsk H = 02 20 12.7 h about 134 km Mag 4.7 (CGS) Penticton eP 02 29 39 Victoria eP 02 29 28</p> <p>AUGUST 25 U.S.C.G.S. 38.9N, 38.4E Central Turkey H = 06 11 43.3 H about 33 km Mag 4.8 (CGS) Alert eP 06 21 00</p>
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DOMINION OBSERVATORIES

Mould Bay
eP 06 22 17
Penticton
eP 06 24 40
Schefferville
eP 06 22 33
Victoria
eP 06 24 48
Yellowknife
iP 06 23 33

AUGUST 25
Yellowknife
iP 11 06 02
i 11 07 12

AUGUST 25
U.S.C.G.S.
17.5S, 178.8W
Fiji Islands Rgion
H = 12 18 12.5
h about 565 km
Mag 6 1/2(PAS),
6-6 1/4(BRK),
6.1 (CGS)
Alert
eP' 12 35 41
Halifax
iP' 12 36 00 d
London
e 12 36 03
Mould Bay
iP 12 30 58 d
Ottawa
eP' 12 35 43
Penticton
iP 12 29 48
Resolute
eP 12 31 (22)
Scarboro
e 12 36 14
Schefferville
eP' 12 35 53
Victoria
iP 12 29 35 c
ipP 12 31 40

Yellowknife
iP 12 30 32 d
PP 12 32 42

AUGUST 25
U.S.C.G.S.
52.5N, 172.5W
Andreanof Islands,
Aleutian Islands.
H = 18 44 15.5
h about 80 km
Mag 4.5 (CGS)
Edmonton
eP 18 51 01 c
Penticton
eP 18 50 44

AUGUST 26
45°54'N, 74°53'W
About 3 miles East of
Namur, Que.
H = 02 41 01.8
Mag 2.2
Montreal
P₁ 02 41 19
S₁ 02 41 32
D = 107 km
Ottawa
P₁ 02 41 15.3
S₁ 02 41 25.7
D = 85.2 km
Scarborough
S₁ 02 42 59
D = 420 km

AUGUST 26
U.S.C.G.S.
17.7S, 178.8W
Fiji Islands
H = 04 49 43.8
h about 575
Mag 4.6 (CGS)
Edmonton
eP 05 01 44 (c)
Penticton
iP 05 01 19

AUGUST 26
U.S.C.G.S.
6.8S, 105.6E
Java
H = 05 42 40.3
h about 33 km
Mag 5.1 (CGS)
Edmonton
eP' 06 01 36 (c)

AUGUST 26
U.S.C.G.S.
51.6N, 157.0E
Near East Coast of
Kanchatka.
H = 08 45 32.4
h about 105 km
Mag 4.7 (CGS)
Edmonton
eP 08 54 27 c
Yellowknife
iP 08 53 43

AUGUST 26
48°0N, 123°0W
Washington, U.S.A.
H = 09 20 43
Mag 3.1
Alberni
eP 09 21 10
eS 09 21 24
D = 167 km
Penticton
eP 09 21 25
D = 287 km
Port Hardy
iP 09 21 41.2
D = 428 km
Victoria
iP 09 20 54.7
iS 09 21 03.5
D = 72 km

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AUGUST 26
45°10' N, 73°57'W
About 5 miles N.E. of
Lery, Que.
H = 16 29 35
Mag 3.5
London
S₁ 16 32 28
D = 638 km
Montreal
P₁ 16 29 42.3
S₁ 16 29 47.6
D = 43 km
Ottawa
P₁ 16 29 57.4
S₁ 16 30 14.6
D = 141 km

AUGUST 26
U.S.C.G.S.
19.8N, 155.6W
Hawaii
H = 18 49 19
h = about 5 km
Mag 4.4 (CGS)
Edmonton
eP 18 57 48

AUGUST 27
U.S.C.G.S.
45.9S, 75.3W
Near Coast of
Southern Chile
H = 03 23 32.6
h about 33 km
Mag 5.3 (CGS)
Ottawa
eP 03 36 (39)

AUGUST 27
U.S.C.G.S.
44.1N, 129.5W
Off Coast of Oregon
H = 05 51 37.4
h about 33 km
Mag 4.2 (CGS)

Edmonton
eP 05 54 53 d
Port Hardy
eP 05 53 15.0 d
Yellowknife
iP 05 56 12

AUGUST 27
Victoria
e 06 43 42
e 06 44 49

AUGUST 27
U.S.C.G.S.
17.7S, 70.1W
Southern Peru
H = 12 56 55.2
h about 188 km
Mag 4.2 (CGS)
Edmonton
eP 13 08 43 (d)
Yellowknife
iP 13 09 19 c

AUGUST 27
Mould Bay
eP 16 35 (16)

AUGUST
H = 16 57 32
Mag 2.5
Penticton
eP 16 58 10.2
eS 16 58 40.0
D = 244 km

AUGUST 27
U.S.C.G.S.
40.2N, 145.2E
East of Honshu, Japan
H = 22 05 55.9
h about 55 km
Mag 4.8 (CGS)
Alert
eP 22 12 (35)
i 22 12 44
Edmonton
eP 22 13 31

AUGUST 27
H = 22 22 42
Mag 2.7
Penticton
eP 22 23 30.0
eS 22 24 06.8
D = 301 km

AUGUST 27
U.S.C.G.S.
16.1N, 96.9W
Oaxaca, Mexico.
H - 23 40 42.9
h about 38 km
Mag 4.3 (CGS)
Mould Bay
eP 23 50 56
Penticton
eP 23 47 59

AUGUST 28
U.S.C.G.S.
16.3N, 96.9W
Oaxaca, Mexico
H = 02 40 21.3
h about 33 km
Mag 3.9 (CGS)
Edmonton
eP 02 47 (44)

AUGUST 28
Edmonton
eP 07 54 (24)

AUGUST 28
69°50'N, 73°05'W
About 9 miles west
of Clyde Inlet, N.W.T.
H = 15 10 02
Mag 4.7
Frobisher
P_n 15 11 49
S_n 15 12 58
L_g 15 13 35
D = 705 km

DOMINION OBSERVATORIES

Resolute
 P_n 15 11 57
 S_n 15 13 21
 L_g 15 14 14
 D = 895 km
 Schefferville
 e 15 13 48
 S_n 15 16 25
 L_g 15 18 05
 D = 1710 km
 Yellowknife
 L_g 15 19 22
 D = 1985 km

AUGUST 28
 Edmonton
 eP 15 22 (59)

AUGUST 28
 U.S.C.G.S.
 28.3N, 141.0E
 Bonin Islands Region
 H = 15 51 06.3
 h about 96 km
 Mag 5.1 (CGS)
 Edmonton
 eP 16 02 47
 Penticton
 iP 16 02 37 d

AUGUST 28
 Penticton
 eP 21 03 41

AUGUST 29
 U.S.C.G.S.
 21.9N, 145.5E
 Mariana Islands
 H = 06 08 48.0
 h about 130 km
 Mag 4.6 (CGS)
 Edmonton
 eP 06 20 40 d
 Penticton
 iP 06 20 27 d

AUGUST 29
 U.S.C.G.S.
 39.6N, 74.2E
 Sinkiang Prov., China
 H = 08 53 48.4
 h about 31 km
 Mag 5.5 (CGS)
 Alert
 eP 09 03 27
 Edmonton
 iP 09 06 33 c
 Halifax
 eP 09 06 37
 London
 eP 09 07 08 c
 Mould Bay
 iP 09 04 20 c
 S 09 12 57
 Ottawa
 eP 09 06 51 c
 Penticton
 iP 09 06 49 c
 Resolute
 eP 09 04 31 c
 Scarborough
 eP 09 07 03
 Schefferville
 iP 09 05 56 c
 Victoria
 iP 09 06 51 c
 Yellowknife
 iP 09 05 43 c

AUGUST 29
 Penticton
 eP 12 52 10

AUGUST 29
 U.S.C.G.S.
 7.1S, 81.6W
 Off Coast of Peru
 H = 15 30 31.4
 h about 23 km
 Mag 6 1/2 (PAS),
 6.1 (CGS)

Alert
 iP 15 43 30 d
 Edmonton
 eP 15 41 15 (d)
 Halifax
 iP 15 39 56 d
 London
 iP 15 39 24 d
 Mould Bay
 iP 15 43 12 d
 Ottawa
 iP 15 39 42 d
 Penticton
 iP 15 41 14 c
 Port Hardy
 iP 15 41 43.3 d
 Resolute
 iP 15 42 50 d
 Schefferville
 iP 15 40 56 d
 Victoria
 iP 15 41 22 d
 Yellowknife
 iP 15 42 04

AUGUST 29
 Edmonton
 e(P) 16 09 (49)

AUGUST 29
 U.S.C.G.S.
 15.5S, 172.9W
 Tonga Islands Region
 H = 20 57 31.5
 h about 33 km
 Mag 4.9 (CGS)
 Penticton
 iP 21 09 39 c
 Port Hardy
 eP 21 09 22.9 c

AUGUST 30
 U.S.C.G.S.
 8.7S, 108.6E
 Off South Coast of
 Java.

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H = 00 16 36.3
 h about 33 km
 Mag 5.1 (CGS)
 Edmonton
 eP' 00 35 (33)

AUGUST 30
 Victoria
 eP 00 28 09

AUGUST 30
 U.S.C.G.S.
 23.3S, 66.3W
 Jujuy Prov.,
 Argentina.
 H = 00 43 19.0
 h about 239 km
 Mag 4.6 (CGS)
 Penticton
 iP 00 55 36 d

AUGUST 30
 U.S.C.G.S.
 44.8N, 80.1E
 China - Kasakh
 S.S.R. Border
 H = 04 46 25.0
 h about 33 km
 Mag 4.9 (CGS)
 Edmonton
 eP 04 58 (41)
 Mould Bay
 iP 04 56 20 d
 i 05 01 54
 Penticton
 eP 04 58 56
 Yellowknife
 iP 04 57 48

AUGUST 30
 Canadian Arctic
 H = 05 28 36.5
 Mag 2.1
 Resolute
 P₁ 05 28 54.5
 S₁ 05 29 08.2
 D = 112 km

AUGUST 30
 Edmonton
 eP 05 56 46
 Penticton
 iP 05 56 42

AUGUST 30
 Penticton
 eP 10 46 16

AUGUST 30
 U.S.C.G.S.
 23.4S, 175.4W
 Tonga Islands
 H = 13 51 51.6
 h about 33 km
 Mag 4.9 (CGS)
 Penticton
 iP 14 04 39

AUGUST 30
 Edmonton
 H = 19 10 03
 Mag 2.6
 Port Hardy
 iP 19 10 28.4
 iS 19 10 47.7
 D = 158 km

AUGUST 30
 H = 23 49 46
 Mag 2.8
 Alberni
 iP 23 50 53.4
 D = 493 km
 Port Hardy
 iP 23 50 11.5
 iS 23 50 30.6
 D = 156 km

AUGUST 31
 H = 03 22 58
 Port Hardy
 iP 03 23 23.0
 iS 03 23 41.9
 D = 154 km

AUGUST 31
 Penticton
 eP 03 29 39

AUGUST 31
 H = 07 52 53
 Mag 2.6
 Port Hardy
 iP 07 53 23.0
 iS 07 53 45.6
 D = 185 km

AUGUST 31
 H = 07 56 34
 Mag 2.4
 Port Hardy
 iP 07 57 03.1
 iS 07 57 25
 D = 179 km

AUGUST 31
 H = 08 00 11
 Mag 2.0
 Port Hardy
 iP 08 00 35.5
 iS 08 00 54.0
 D = 152 km

AUGUST 31
 H = 08 23 59
 Mag 2.0
 Port Hardy
 iP 08 24 24.0
 iS 08 24 43.5
 D = 160 km

DOMINION OBSERVATORIES

AUGUST 31
 Edmonton
 eP 08 47 (22)
 Mould Bay
 eP 08 45 (13)
 i 08 45 19
 Penticton
 eP 08 47 39
 Yellowknife
 eP 08 46 39

AUGUST 31
 U.S.C.G.S.
 15.9S, 74.4W
 Southern Peru
 H = 10 30 30.1
 h about 53 km
 MAG 4.1 (CGS)
 Edmonton
 eP 10 42 15 c

AUGUST 31
 H = 12 23 21
 MAG 3.0
 Penticton
 eP 12 24 06.5
 eS 12 24 41.4
 D = 286 km

AUGUST 31
 U.S.C.G.S.
 28.2N, 129.3E
 Ryukyu Islands
 H = 12 47 11
 h about 33 km
 MAG 4.6 (CGS)
 Edmonton
 eP 12 59 31

AUGUST 31
 U.S.C.G.S.
 11.9N, 87.0W
 Off West Coast
 of Nicaragua
 H = 13 08 46.3
 h about 48 km
 MAG 4.9 (CGS)
 Edmonton
 eP 13 17 17 c
 Ottawa
 eP 13 15 (33)
 Penticton
 iP 13 17 07 c
 Yellowknife
 eP 13 18 06

AUGUST 31
 U.S.C.G.S.
 47.5N, 143.6E
 Sakhalin Region
 H = 16 29 52
 h about 70 km
 MAG 4.7 (CGS)
 Penticton
 iP 16 39 51 c

AUGUST 31
 H = 18 45 32
 MAG 2.2
 Port Hardy
 eP 18 45 56.9
 eS 18 46 15.6
 D = 152 km

AUGUST 31
 H = 19 47 16
 MAG 2.3
 Port Hardy
 eP 19 47 41.4
 eS 19 48 00.6
 D = 158 km

AUGUST 31
 H = 20 34 49
 MAG 2.2

Port Hardy
 eP 20 35 12.4
 eS 20 35 30.4
 D = 148 km

AUGUST 31
 H = 21 01 25
 MAG 2.3
 Port Hardy
 eP 21 01 50.3
 eS 21 02 09.4
 D = 156 km

AUGUST 31
 U.S.C.G.S.
 21.5S, 179.2W
 Fiji Islands
 H = 21 26 09.3
 h about 543 km
 MAG 4.8 (CGS)
 Penticton
 iP 21 38 04 c

SEPTEMBER 1
 H = 06 59 41
 MAG 2.3
 Port Hardy
 eP 07 00 05.0
 eS 07 00 23.5
 D = 152 km

SEPTEMBER 1
 50°4N, 129°5W
 West of Vancouver
 Island
 H = 07 01 31
 MAG 3.2
 Penticton
 eP 07 03 08.9
 D = 736 km
 Port Hardy
 eP 07 01 55.0
 eS 07 02 13.0
 D = 148 km
 Victoria
 eP 07 02 37.5
 D = 487 km

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SEPTEMBER 1
 H = 07 06 16
 MAG 2.5
 Port Hardy
 eP 07 06 40.5
 eS 07 06 59.0
 D = 152 km

SEPTEMBER 1
 H = 07 13 52
 MAG 2.9
 Penticton
 eP 07 15 40.0
 Port Hardy
 eP 07 14 14.5
 eS 07 14 31.4
 D = 138 km
 Victoria
 eP 07 15 02.6

SEPTEMBER 1
 H = 07 32 11
 MAG 2.3
 Port Hardy
 eP 07 32 35.5
 eS 07 32 54.0
 D = 152 km

SEPTEMBER 1
 H = 08 19 07
 MAG 2.0
 Port Hardy
 eP 08 19 33.4
 eS 08 19 53.8
 D = 166 km

SEPTEMBER 1
 U.S.C.G.S.
 5.4N, 82.4W
 South of Panama
 H = 11 11 13.7
 h about 61 km
 MAG 4.6 (CGS)
 Edmonton
 eP 11 20 33 (c)

Ottawa
 eP 11 18 47
 Penticton
 iP 11 20 34 c
 Schefferville
 eP 11 20 (11)
 Yellowknife
 eP 11 21 (25)

SEPTEMBER 1
 H = 14 50 13
 MAG 2.6
 Port Hardy
 eP 14 50 37.3
 eS 14 50 56.0
 D = 153 km

SEPTEMBER 1
 H = 15 14 41
 MAG 2.1
 Port Hardy
 eP 15 15 05.8
 eS 15 15 25.0
 D = 157 km

SEPTEMBER 1
 50°7N, 129°4W
 West of Vancouver
 Island
 H = 15 23 55
 MAG 4.0
 Alberni
 iP 15 24 43.4
 D = 344 km
 Edmonton
 eP 15 26 (30)

Penticton
 eP 15 25 30.4
 D = 729 km
 Port Hardy
 eP 15 24 17.6
 eS 15 24 35.0
 D = 142 km

Victoria
 eP 15 25 02.9
 D = 503 km

SEPTEMBER 1
 H = 15 28 15
 MAG 2.3
 Port Hardy
 eP 15 28 37.1
 eS 15 28 54.2
 D = 140 km

SEPTEMBER 1
 H = 16 45 11
 MAG 2.5
 Alberni
 eP 16 46 12.6
 Port Hardy
 eP 16 45 36.1
 eS 16 45 55.0
 D = 154 km
 Victoria
 eP 16 46 32.6

SEPTEMBER 1
 H = 18 02 59
 MAG 2.7
 Alberni
 eP 18 03 50
 Port Hardy
 eP 18 03 24.3
 eS 18 03 43.4
 D = 157 km
 Victoria
 eP 18 04 12.5

SEPTEMBER 1
 H = 18 20 24
 MAG 2.0
 Port Hardy
 eP 18 20 49.7
 eS 18 21 09.0
 D = 158 km

DOMINION OBSERVATORIES

SEPTEMBER 1
 H = 18 47 15
 MAG 2.1
 Port Hardy
 eP 18 47 51.7
 eS 18 48 19.6
 D = 228 km

SEPTEMBER 1
 H = 19 05 38
 MAG 2.0
 Port Hardy
 eP 19 06 02.1
 eS 19 06 20.7
 D = 152 km

SEPTEMBER 1
 50°5N, 129°5W
 West of Vancouver
 Island
 H = 19 22 47
 MAG 2.8
 Alberni
 eP 19 23 38
 D = 360 km
 Penticton
 eP 19 24 24
 D = 744 km
 Port Hardy
 eP 19 23 11.2
 eS 19 23 30.0
 D = 154 km
 Victoria
 eP 19 24 02.0
 D = 562 km

SEPTEMBER 1
 51°4N, 129°6W
 West of Vancouver
 Island
 H = 22 07 28
 MAG 2.7
 Penticton
 eP 22 09 07
 D = 756 km

Port Hardy
 eP 22 07 54.8
 eS 22 08 15.0
 D = 166 km
 Victoria
 eP 22 08 44.6

SEPTEMBER 1
 U.S.C.G.S.
 11.3N, 85.5W
 Nicaragua
 H = 22 57 34.4
 h about 120 km
 MAG 4.4 (CGS)
 Edmonton
 eP 23 05 56
 Penticton
 iP 23 06 57 d
 Schefferville
 eP 23 05 45 (c)

SEPTEMBER 1
 U.S.C.G.S.
 1.0N, 28.4W
 North Atlantic Ocean
 H = 23 28 08.4
 h 33 km
 MAG 4.5 (CGS)
 Edmonton
 eP 23 40 47 (d)

SEPTEMBER 1
 51°6N, 129°1W
 West of Vancouver
 Island
 H = 23 55 42
 MAG 2.7
 Alberni
 eP 23 56 44
 D = 453 km
 Penticton
 eP 23 57 17
 D = 725 km
 Port Hardy
 eP 23 56 07.5
 eS 23 56 27.0
 D = 160 km

Victoria
 eP 23 56 53.0
 D = 528 km

SEPTEMBER 2
 U.S.C.G.S.
 33.9N, 74.7E
 Northern India
 H = 01 34 31.6
 h 44 km
 MAG 5.1 (CGS)
 Alert
 eP 01 44 49 c
 Edmonton
 eP 01 47 42 (c)
 Schefferville
 eP 01 47 08 (c)
 Yellowknife
 eP 01 46 56

SEPTEMBER 2
 H = 01 36 44
 MAG 2.9
 Port Hardy
 eP 01 37 09.3
 eS 01 37 28.7
 D = 159 km
 Victoria
 eP 01 38 16.3
 D = 703 km

SEPTEMBER 2
 51°5N, 129°0W
 West of Vancouver
 Island
 H = 03 46 57
 MAG 4.2
 Alberni
 eP 03 47 01.2
 D = 474 km
 Penticton
 eP 03 47 34.6
 D = 748 km

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Port Hardy
 eP 03 46 22.2
 D = 160 km
 Victoria
 eP 03 47 12.6
 D = 568 km

SEPTEMBER 2
 H = 03 48 37
 MAG 2.8
 Port Hardy
 eP 03 49 02.4
 eS 03 49 22.0
 D = 161 km

SEPTEMBER 2
 H = 03 51 13
 MAG 2.5
 Port Hardy
 eP 03 51 38.4
 eS 03 51 57.8
 D = 157 km

SEPTEMBER 2
 U.S.C.G.S.
 14.1S, 76.4W
 Southern Peru
 H = 04 10 18.4
 h 41 km
 MAG 4.5 (CGS)
 Edmonton
 eP 04 21 52 c

SEPTEMBER 2
 U.S.C.G.S.
 52.5N, 169.2W
 Fox Islands
 Aleutian Islands
 H = 08 03 21.7
 h 33
 MAG 4.4 (CGS)
 Edmonton
 eP 08 09 55
 Penticton
 eP 08 09 39

SEPTEMBER 2
 U.S.C.G.S.
 45.4N, 150.9E
 Kurile Islands
 H = 11 44 00.2
 h 33 km
 MAG 4.5 (CGS)
 Alert
 eP 11 53 02
 Edmonton
 eP 11 53 53 d
 Penticton
 eP 11 53 40
 Resolute
 eP 11 53 12

SEPTEMBER 2
 U.S.C.G.S.
 18.2S, 62.6W
 Bolivia
 H = 13 02 07.0
 h 33 km
 MAG 4.5 (CGS)
 Edmonton
 eP 13 14 34 c

SEPTEMBER 2
 50°7N, 129°7W
 West of Vancouver
 Island
 H = 13 22 31
 MAG 3.8
 Alberni
 eP 13 23 23.6
 D = 380 km
 Penticton
 eP 13 24 08.6
 D = 748 km
 Port Hardy
 eP 13 22 55.9
 eS 13 23 15.2
 D = 158 km
 Victoria
 eP 13 23 41
 D = 519 km

SEPTEMBER 2
 50°3N, 129°3W
 West of Vancouver
 Island
 H = 13 27 35
 MAG 4.6
 Alberni
 eP 13 28 27.4
 D = 372 km
 Edmonton
 eP 13 30 10
 Penticton
 eP 13 29 12.6
 D = 742 km
 Port Hardy
 eP 13 28 01.0
 D = 160 km
 Victoria
 eP 13 28 41.0
 D = 483 km

SEPTEMBER 2
 H = 13 55 58
 MAG 4.0
 Alberni
 eP 13 56 59.1
 D = 446 km
 Port Hardy
 eP 13 56 23.0
 eS 13 56 42.0
 D = 156 km
 Victoria
 eP 13 57 15.8
 D = 582 km

SEPTEMBER 2
 U.S.C.G.S.
 25.7N, 109.5W
 Gulf of California
 H = 14 10 44.7
 h 33
 MAG 4.8 (CGS)
 Edmonton
 eP 14 16 30 (c)
 Mould Bay
 eP 14 19 42

DOMINION OBSERVATORIES

Ottawa
eP 14 17 21
Yellowknife
eP 14 17 50

SEPTEMBER 2
52°0N, 129°5W
West of Vancouver
Island
H = 14 12 48
MAG 4.2
Alberni
eP 14 13 53.0
D = 476 km
Penticton
eP 14 14 28.0
D = 763 km
Port Hardy
eP 14 13 19.6
eS 14 13 44.2
D = 202 km
Victoria
eP 14 14 10.3
D = 616 km

SEPTEMBER 2
H = 14 24 43
MAG 3.3
Port Hardy
eP 14 25 08.2
eS 14 25 27.5
D = 158 km

SEPTEMBER 2
U.S.C.G.S.
20.7S, 175.1W
Tonga Islands
H = 19 03 23.3
h 33
MAG 4.5 (CGS)
Penticton
iP 19 16 00

SEPTEMBER 2
U.S.C.G.S.
45.4N, 150.8E
Kurile Islands
H = 23 45 00.1
h 33 km
MAG 4.9 (CGS)
Alert
eP 23 54 01
Edmonton
eP 23 54 (54)
Ottawa
eP 23 57 10
Penticton
eP 23 54 46
Schefferville
eP 23 56 41

SEPTEMBER 3
Penticton
eP 04 14 01

SEPTEMBER 3
45.4N, 150.9E
Kurile Islands
H = 05 29 39.5
h 33 km
MAG 4.5 (CGS)
Alert
eP 05 38 41
Edmonton
eP 05 39 32 (c)
Penticton
eP 05 39 22
Resolute
eP 05 38 51
Yellowknife
eP 05 38 (50)

SEPTEMBER 3
U.S.C.G.S.
51.9N, 173.5W
Andreanof Islands,
Aleutian Islands
H = 06 12 08.9
h 50 km
MAG 4.7 (CGS)
Edmonton
eP 06 19 04 d
Ottawa
eP 06 22 12
Penticton
iP 06 18 47 d

SEPTEMBER 3
U.S.C.G.S.
62.8N, 25.2W
Iceland Region
H = 09 13 31.1
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 09 21 40
Penticton
eP 09 22 23

SEPTEMBER 3
U.S.C.G.S.
61.9N, 150.4W
Kenai Peninsula, Alaska
H = 12 59 52.3
h 116 km
MAG 4.0 (CGS)
Edmonton
eP 13 04 32 d
Penticton
eP 13 04 30

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SEPTEMBER 3
U.S.C.G.S.
6.9N, 73.1W
Colombia
H = 18 37 42.6
h 143 km
MAG 4.4 (CGS)
Alert
eP 18 49 13
Penticton
eP 18 47 19
Schefferville
eP 18 46 09 c
Victoria
eP 18 47 31
Yellowknife
iP 18 47 55 c

SEPTEMBER 3
50.5N, 129.5W
West of Vancouver Island
H = 19 31 33
MAG 4.0
Alberni
eP 19 32 23.9
D = 360 km
Penticton
eP 19 33 08.2
D = 724 km
Port Hardy
eP 19 31 58.6
eS 19 32 17.9
D = 158 km
Victoria
eP 19 32 47.0
D = 549 km

SEPTEMBER 3
Penticton
eP 22 28 17

SEPTEMBER 3
Resolute
eP 22 46 (41)
i 22 46 57
i 22 47 02

SEPTEMBER 4
Edmonton
eP 01 01 43

SEPTEMBER 4
U.S.C.G.S.
52.1N, 175.2W
Andreanof Islands
Aleutian Islands
H = 03 29 54.5
h 33 km
MAG 4.1 (CGS)
Edmonton
eP 03 36 (58)

SEPTEMBER 4
U.S.C.G.S.
36.1N, 5.3E
Near Coast of Algeria
H = 05 06 47.0
h 38 km
MAG 5.2 (CGS)
Alert
i 05 15 50
Edmonton
eP 05 18 33 d
Halifax
eP 05 15 51 (d)
Ottawa
eP 05 16 47 d
Penticton
iP 05 19 04 d
Resolute
eP 05 16 (37)
Schefferville
eP 05 15 49
Scarboro
eP 05 17 09
Victoria
iP 05 19 16 d
Yellowknife
iP 05 17 59 c

SEPTEMBER 4
U.S.C.G.S.
7.9N, 82.7W
Near South Coast
of Panama
H = 10 35 34.6
h 33 km
MAG 4.1 (CGS)
Edmonton
eP 10 44 38
Penticton
eP 10 44 40

SEPTEMBER 4
U.S.C.G.S.
71.4N, 73.3W
Near East Coast of
Baffin Island
H = 13 32 12.3
h 33 km
MAG 5.9 (CGS)
Alert
eP 13 34 51
Halifax
iP 13 37 53 c
London
iP 13 38 07 c
Mould Bay
iP 13 35 20 c
iS 13 38 07
Ottawa
iP 13 37 41
iS 13 42 05
Penticton
eP 13 38 25
Resolute
eP 13 33 53 (c)
Scarborough
iP 13 37 59 c
Schefferville
iP 13 35 57 c
Victoria
eP 13 38 41

DOMINION OBSERVATORIES

SEPTEMBER 4
U.S.C.G.S.
71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.
H = 13 32 12.3
h 33
MAG 5.9 (CGS),
6.38 Pas, 6.0 Bks

Alert
Pn 13 34 51
D = 1300 km
Edmonton
eP 13 37 (19)
London
P 13 38 07
S 13 43 49
Lg 13 46 30
D = 3170 km
Mould Bay
Pn 13 35 20
Sn 13 37 48
D = 1540 km
Ottawa
P 13 37 41
S 13 42 13
Lg 13 45 43
D = 2880 km
Resolute
Pn 13 33 54
D = 829 km
Schefferville
Pn 13 35 57
Sn 13 38 47
D = 1810 km
Yellowknife
Pn 13 36 17
D = 1975 km

Alert
Pn 13 59 05
Sn 14 01 10
D = 1300 km
Yellowknife
Lg 14 05 35
D = 1975 km

SEPTEMBER 4
71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.
H = 14 05 13
MAG 5.0
Alert
Pn 14 07 57
Sn 14 10 01
D = 1300 km
Yellowknife
Sn 14 12 30
Lg 14 14 28
D = 1975 km

SEPTEMBER 4
71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.
H = 14 21 21
MAG 4.8
Alert
Pn 14 24 04
Sn 14 26 07
D = 1300 km
Resolute
Pn 14 23 07
Sn 14 24 24
Lg 14 25 07
D = 829 km
Schefferville
Pn 14 25 11
Sn 14 28 10
Lg 14 29 55
D = 1810 km
Yellowknife
Sn 14 28 36
Lg 14 30 32
D = 1975 km

SEPTEMBER 4
71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.
H = 13 56 21
MAG 4.5

SEPTEMBER 4
71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.
H = 15 06 21
MAG 4.7
Alert
Pn 15 09 05
Sn 15 11 08
D = 1300 km
Resolute
Pn 15 08 08
Sn 15 09 25
Lg 15 10 09
D = 829 km
Schefferville
Sn 15 13 05
Lg 15 14 55
D = 1810 km
Yellowknife
Lg 15 15 32
D = 1975 km

SEPTEMBER 4
71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.
H = 15 14 25
MAG 4.5
Alert
Sn 15 19 13
D = 1300 km
Resolute
Pn 15 16 11
Sn 15 17 27
Lg 15 18 10
D = 829 km
Schefferville
Sn 15 21 11
Lg 15 22 56
D = 1810 km
Yellowknife
Lg 15 23 37
D = 1975 km



SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 4
71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.
H = 15 26 16.7
MAG 5.1
Alert
Pn 15 28 58
Sn 15 31 00
D = 1300 km
Ottawa
Lg 15 39 30
D = 2880 km
Resolute
Pn 15 28 03
Sn 15 29 20
Lg 15 30 00
D = 829 km
Schefferville
Pn 15 30 03
Sn 15 33 00
Lg 15 34 48
D = 1810 km
Yellowknife
Sn 15 33 (30)
Lg 15 35 28
D = 1975 km

SEPTEMBER 4
Resolute
eP 17 47 25
i 17 47 44

SEPTEMBER 4
Resolute
eP 18 59 22
i 19 00 38

SEPTEMBER 4
H = 19 21 21
MAG 2.5
Penticton
eP 19 21 48.6
eS 19 22 18.0
D = 240 km

SEPTEMBER 4
71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.
H = 19 57 37.7
MAG 5.1
Alert
Pn 19 00 20
Sn 19 02 22
D = 1300 km
Ottawa
Lg 19 10 50
D = 2880 km
Resolute
Pn 18 59 21
Sn 19 00 37
Lg 19 01 23
D = 829 km
Schefferville
Pn 19 01 26
Sn 19 04 23
Lg 19 06 (12)
D = 1810 km
Yellowknife
Sn 19 04 (52)
Lg 19 06 (48)
D = 1975 km
Montreal
Lg 19 10 50
D = 2865 km

SEPTEMBER 4
Penticton
eP 19 11 42

SEPTEMBER 4
U.S.C.G.S.
71.5N, 72.8W
Baffin Island
H = 21 20 18.5
h 33 km
MAG 4.1 (CGS)
5.7 (D.O.)
Alert
Pn 21 23 00
Sn 21 25 02
D = 1300 km

Edmonton
eP 21 25 45
Montreal
Lg 21 33 28
D = 2865 km
Mould Bay
eP 21 23 (28)
i 21 25 55
i 21 27 46
Ottawa
Lg 21 33 30
D = 2880 km
Resolute
Pn 21 22 00
Sn 21 23 17
Lg 21 24 00
D = 829 km
Schefferville
Pn 21 24 05
Sn 21 27 04
Lg 21 28 49
D = 1810 km
Yellowknife
Pn 21 24 20
Sn 21 27 34
Lg 21 29 31
D = 1975 km

SEPTEMBER 4
U.S.C.G.S.
71.6N, 73.5W
Near Coast of Baffin
Island, N.W.T.
H = 21 41 00.6
MAG 4.4 (CGS)
5.8 (D.O.)
Alert
Pn 21 43 39
Sn 21 45 43
D = 1300 km
Montreal
Lg 21 54 10
D = 2865 km
Mould Bay
Pn 21 44 08
Sn 21 46 (36)
Lg 21 47 (18)
D = 1540 km

DOMINION OBSERVATORIES

<p>Ottawa Lg 21 54 25 D = 2880 km</p> <p>Resolute Pn 21 42 39 Sn 21 43 55 D = 829 km</p> <p>Schefferville Pn 21 44 42 Sn 21 47 45 Lg 21 49 32 D = 1810 km</p> <p>Yellowknife Pn 21 45 04 Sn 21 48 20 Lg 21 50 - D = 1975 km</p> <p>SEPTEMBER 4 71.4N, 73.3W Near Coast of Baffin Island, N.W.T. H = 23 03 22.5 MAG 5.0</p> <p>Resolute Pn 23 05 05 Sn 23 06 20 Lg 23 07 (07) D = 829 km</p> <p>Schefferville Pn 23 07 11 Sn 23 10 07 Lg 23 11 52 D = 1810 km</p> <p>Yellowknife Sn 23 10 (36) Lg 23 12 (35) D = 1975 km</p> <p>SEPTEMBER 4 71.4N, 73.3W Near Coast of Baffin Island, N.W.T. H = 22 15 06 MAG 5.0</p> <p>Resolute Pn 22 16 50 Sn 22 18 04 Lg 22 18 (50) D = 829 km</p> <p>Shefferville Pn 22 18 53 Sn 22 21 48 Lg 22 23 37 D = 1810 km</p> <p>Yellowknife Sn 22 22 (16) Lg 22 24 (16) D = 1975 km</p> <p>SEPTEMBER 4 Halifax eP 21 53 09</p> <p>SEPTEMBER 4 Victoria eP 21 57 31</p>	<p>SEPTEMBER 4 71.4N, 73.3W Near Coast of Baffin Island, N.W.T. H = 23 03 22.5 MAG 5.0</p> <p>Resolute Pn 23 05 05 Sn 23 06 20 Lg 23 07 (07) D = 829 km</p> <p>Schefferville Pn 23 07 11 Sn 23 10 07 Lg 23 11 52 D = 1810 km</p> <p>Yellowknife Sn 23 10 (36) Lg 23 12 (35) D = 1975 km</p> <p>SEPTEMBER 5 Edmonton eP 09 49 54</p> <p>SEPTEMBER 5 50.3N, 129.1W West of Vancouver Island H = 11 36 32 MAG 4.2</p> <p>Edmonton eP 11 39 (01)</p> <p>Penticton eP 11 38 03.4</p> <p>Port Hardy eP 11 36 52.0 eS 11 37 10.7 D = 153 km</p> <p>Resolute iP 11 35 42 i 11 35 45.5 i 11 35 50</p>	<p>Victoria eP 11 37 35</p> <p>SEPTEMBER 5 Penticton eP 12 16 10</p> <p>SEPTEMBER 5 Penticton eP 14 24 14</p> <p>SEPTEMBER 5 71.4N, 73.3W Near Coast of Baffin Island, N.W.T. H = 14 45 23 MAG 4.0</p> <p>Resolute Pn 14 47 09 Sn 14 48 27 Lg 14 49 06 D = 829 km</p> <p>SEPTEMBER 5 Penticton eP 14 57 32</p> <p>Yellowknife eP 14 54 (32)</p> <p>SEPTEMBER 5 71.4N, 73.3W Near Coast of Baffin Island, N.W.T. H = 22 26 28 MAG 4.8</p> <p>Alert Sn 22 30 03 D = 1300 km</p> <p>Resolute Pn 22 28 14 Sn 22 29 30 Lg 22 30 (13) D = 829 km</p>
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SEISMOLOGICAL BULLETIN - 1963

<p>Schefferville Pn 22 30 07 Sn 22 33 12 Lg 22 34 55 D = 1810 km</p> <p>Yellowknife Sn 22 33 (38) Lg 22 35 (28) D = 1975 km</p> <p>SEPTEMBER 5 Penticton eP 22 42 21</p> <p>SEPTEMBER 5 U.S.C.G.S. 18.6N, 106.8W Off Coast of Jalisco, Mexico H = 23 43 05.0 h 33 km Mag 5.4 (CGS)</p> <p>Edmonton eP 23 49 54</p> <p>SEPTEMBER 6 U.S.C.G.S. 71.5N, 73.0W Near East Coast of Baffin Island, N.W.T. H = 01 46 13.3 Mag 4.4 (CGS) 5.8 (D.O.)</p> <p>Alert Pn 01 48 54 i 01 50 50 Sn 01 50 56 D = 1300 km</p> <p>Edmonton eP 01 51 (40)</p> <p>London Lg 02 00 50 D = 3170 km</p>	<p>Montreal Pn 01 51 43 Sn 01 56 13 Lg 01 59 25 D = 2865 km</p> <p>Mould Bay Pn 01 49 24 Sn 01 51 (54) Lg 01 53 (20) D = 1540 km</p> <p>Ottawa Pn 01 51 44 Sn 01 56 (35) Lg 01 59 30 D = 2880 km</p> <p>Resolute Pn 01 47 57 Sn 01 49 13 Lg 01 49 (57) D = 829 km</p> <p>Schefferville Pn 01 49 58 Sn 01 53 00 Lg 01 54 47 D = 1810 km</p> <p>Yellowknife Pn 01 50 19 Sn 01 53 28 Lg 01 55 24 D = 1975 km</p> <p>SEPTEMBER 6 Victoria eP 02 02 50</p> <p>SEPTEMBER 6 Schefferville eP 03 57 (02)</p> <p>SEPTEMBER 6 Yellowknife eP 03 59 36</p>	<p>SEPTEMBER 6 71.4N, 73.3W Near East Coast of Baffin Island, N.W.T. H = 05 55 55 Mag 4.6</p> <p>Resolute Pn 05 57 41 Sn 05 58 56 Lg 05 59 (35) D = 829 km</p> <p>Schefferville Lg 06 04 (25) D = 1810 km</p> <p>Yellowknife eP 06 05 (06)</p> <p>SEPTEMBER 6 U.S.C.G.S. 36.4N, 130.6E Sea of Japan H = 06 03 52.1 h 33 km Mag 5.4 (CGS)</p> <p>Alert eP 06 14 04</p> <p>Edmonton (eP) 06 15 31</p> <p>Mould Bay iP 06 13 52 Sn 06 22 (04)</p> <p>Penticton eP 06 15 23</p> <p>Resolute eP 06 14 30</p> <p>Schefferville eP 06 16 41</p>
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DOMINION OBSERVATORIES

Victoria eP 06 15 21 Yellowknife iP 06 14 54 c	SEPTEMBER 6 U.S.C.G.S. 53.9N, 165.6W Fox Island, Aleutian Islands H = 20 56 59.9 h 33 km MAG 5.0 (CGS) Alert i 21 04 22 Edmonton eP 21 03 (11) Schefferville eP 21 06 13 Penticton eP 21 02 54 Victoria eP 21 02 37 Yellowknife eP 21 02 47	Edmonton eP 01 28 36 d Mould Bay eP 01 26 (56) eS 01 35 (05) Penticton eP 01 28 32 Victoria eP 01 28 32 Yellowknife eP 01 27 (56)
SEPTEMBER 6 Mould Bay iP ₁ 09 17 02 iS ₁ 09 17 17		
SEPTEMBER 6 U.S.C.G.S. 24.0S, 179.9E Kermadec Islands Region H = 10 16 38.9 h 500 km MAG 5.2 (CGS) Edmonton eP 10 29 12 c Penticton iP 10 28 48 c Victoria eP 10 28 32 c	SEPTEMBER 6 U.S.C.G.S. 44.3N, 114.7W Central Idaho H = 22 19 35.2 h 33 km MAG 4.1 (CGS) Penticton eP 22 21 08	SEPTEMBER 7 U.S.C.G.S. 21.5S, 174.6W Tonga Islands H = 02 29 38.3 h 33 km MAG 5.1 (CGS) Edmonton eP 02 42 42 Penticton iP 02 42 17
SEPTEMBER 6 Penticton eP 19 25 10	SEPTEMBER 6 West of Vancouver Island H = 20 31 46 MAG 4.4 Penticton eP 20 33 19 Port Hardy eP 20 32 07.9 Victoria eP 20 32 49	SEPTEMBER 7 71.4N, 73.3W Near East Coast of Baffin Island, N.W.T. H = 03 03 47.3 MAG 5.0 Alert Pn 03 06 28 Sn 03 08 30 D = 1300 km Edmonton eP 03 09 (12) Resolute Pn 03 05 32 Sn 03 06 46 Lg 03 07 30 D = 829 km
	SEPTEMBER 7 U.S.C.G.S. 36.4N, 130.6E Off East Coast of South Korea H = 01 16 55.1 h 33 km MAG 5.3 (CGS) Alert eP 01 27 06	

SEISMOLOGICAL BULLETIN - 1963

Schefferville Pn 03 07 36 Sn 03 10 32 Lg 03 12 20 D = 1810 km Yellowknife Pn 03 08 03 Sn 03 11 (00) Lg 03 12 (56) D = 1975 km	SEPTEMBER 7 Edmonton eP 09 02 09 c	SEPTEMBER 8 U.S.C.G.S. 28.1S, 176.8W Kermadec Islands Region H = 00 47 27.7 h 57 km MAG 5.3 (CGS) Victoria e 01 11 23 (c)
SEPTEMBER 7 Penticton eP 03 17 16	SEPTEMBER 7 U.S.C.G.S. 54.0N, 160.3E Kamchatka H = 12 44 01.1 h 110 km MAG 5.4 (CGS) Alert eP 12 51 44 c Edmonton iP 12 52 31 c Halifax iP 12 55 31 Mould Bay iP 12 50 55 Ottawa eP 12 55 02 Penticton iP 12 52 (27) c Resolute iP 12 51 47 c Schefferville iP 12 54 30 c Victoria eP 12 52 14 (c) Yellowknife iP 12 51 47 (c)	SEPTEMBER 8 H = 01 14 13 MAG 2.0 Penticton eP 01 15 46.5 Port Hardy eP 01 14 37.2 eS 01 14 55.6 D = 151 km Victoria eP 01 15 17
SEPTEMBER 7 U.S.C.G.S. 45.4N, 150.8E Kurile Islands H = 07 13 39.9 h 33 km MAG 5.2 (CGS) Alert eP 07 22 41 c Edmonton eP 07 23 (33) Ottawa eP 07 25 49 Penticton eP 07 23 25 Resolute eP 07 22 52 i 07 22 57.5 Schefferville eP 07 25 21 c Yellowknife eP 07 22 55	SEPTEMBER 7 U.S.C.G.S. 27.8N, 141.5E Bonin Island Region H = 22 00 58.9 h 50 km MAG 4.9 (CGS) Alert eP 22 12 03 (c) Edmonton eP 22 12 45 Victoria eP 22 12 25 Yellowknife iP 22 12 17 (d)	SEPTEMBER 8 U.S.C.G.S. 12.3N, 87.9W Near Coast of El Salvador H = 05 28 37.8 h 31 km MAG 4.1 (CGS) Edmonton eP 05 36 56
SEPTEMBER 7 Canadian Arctic H = 03 10 53.4 MAG 0.8 Resolute P ₁ 03 10 56 S ₁ 08 10 58 D = 16.4 km		SEPTEMBER 8 U.S.C.G.S. 36.2S, 100.5W 1500 km Southeast of Easter Island H = 09 06 16.0 h 33 km MAG 4.7 (CGS) Ottawa eP 09 18 (46) Victoria eP 09 19 03

DOMINION OBSERVATORIES

SEPTEMBER 8
 Yellowknife
 eP 15 47 35
 (i) 15 47 (46)

SEPTEMBER 8
 71.4N, 73.3W
 Near East Coast of
 Baffin Island, N.W.T.
 H = 15 38 39
 MAG 4.8
 Edmonton
 eP 15 51 (25)
 Resolute
 Pn 15 40 24
 Sn 15 41 40
 Lg 15 42 25
 D = 829 km
 Schefferville
 Pn 14 42 25
 Sn 15 45 23
 Lg 15 47 09
 D = 1810 km

SEPTEMBER 8
 48.5N, 123.0W
 Olympic Mountain, USA
 H = 15 53 33
 MAG 2.5
 Alberni
 eP 15 54 13
 D = 273 km
 Penticton
 eP 15 54 21.3
 D = 339 km
 Victoria
 iP 15 53 54.1
 eS 15 54 10
 D = 130 km

SEPTEMBER 8
 50.4N, 128.1W
 Quatsino Sound
 H = 16 27 37
 MAG 2.8

Penticton
 eP 16 29 09
 D = 700 km
 Port Hardy
 eP 16 27 47.1
 eS 16 27 54.8
 D = 63 km
 Victoria
 eP 16 28 33
 D = 405 km

SEPTEMBER 8
 U.S.C.G.S.
 23.6S, 179.8E
 Fiji Islands Region
 H = 19 50 29.8
 h 550 km
 MAG 5.7 (CGS)
 Alert
 eP' 20 08 11
 Edmonton
 eP 20 02 57 c
 Ottawa
 eP' 20 08 10 c
 Resolute
 eP' 20 08 02
 Schefferville
 eP' 20 08 (22)
 Shawinigan Falls
 eP' 20 08 15 c
 i 09 40
 Victoria
 iP 20 02 22 c
 Yellowknife
 eP 20 03 17
 i 20 07 (29)

SEPTEMBER 8
 Mould Bay
 iP 20 07 52
 S 20 14 44

SEPTEMBER 8
 Victoria
 eP 20 28 16

SEPTEMBER 9
 Yellowknife
 (eP) 02 05 11

SEPTEMBER 9
 U.S.C.G.S.
 4.4S, 152.7E
 New Britain
 H = 02 45 45.5
 h 34 km
 MAG 5.6 (CGS)
 Alert
 eP 02 59 30
 i 03 15 41
 Edmonton
 eP 02 59 09
 Halifax
 eP' 03 04 51
 Mould Bay
 iP 02 58 59
 eS 03 10 17
 Ottawa
 eP' 03 04 36 d
 Schefferville
 eP' 03 04 34
 Shawinigan Falls
 iP' 03 04 39 d
 Victoria
 eP 02 58 38
 Yellowknife
 eP 02 59 06
 i 03 03 49
 i 03 16 00.5

SEPTEMBER 9
 Victoria
 eP 03 03 42

SEPTEMBER 9
 Edmonton
 (eP) 03 15 59

SEPTEMBER 9
 Victoria
 eP 03 24 21

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 9
 H = 05 18 32
 MAG 2.8
 Port Hardy
 eP 05 18 57.6
 eS 05 19 16.8
 D = 158 km
 Victoria
 eP 05 19 39

SEPTEMBER 9
 49.6N, 130.4W
 West of Vancouver Island
 H = 07 27 52
 MAG 2.8
 Port Hardy
 iP 07 28 15.5
 eS 07 28 33.4
 D = 147 km
 Victoria
 eP 07 28 57
 D = 396 km

SEPTEMBER 9
 Yellowknife
 eP 13 06 15

SEPTEMBER 9
 H = 13 57 45
 MAG 2.0
 Port Hardy
 eP 13 58 09.7
 eS 13 58 28.5
 D = 154 km

SEPTEMBER 9
 Yellowknife
 (eP) 14 16 (55)
 i 14 17 02

SEPTEMBER 9
 71.4N, 73.3W
 Near East Coast of
 Baffin Island, N.W.T.
 H = 22 33 17
 MAG 4.6
 Resolute
 Pn 22 35 03
 Sn 22 36 22
 Lg 22 37 02
 D = 829
 Schefferville
 Sn 22 40 01
 Lg 22 41 52
 D 1810 km
 Yellowknife
 Sn 20 40 (22)
 Lg 20 42 (21)
 D = 1975 km

SEPTEMBER 9
 Shawinigan Falls
 eP 22 45 52

SEPTEMBER 10
 U.S.C.G.S.
 59.3N, 151.6W
 Kenai Peninsula
 H = 11 29 33.4
 h 30 km
 MAG 4.2 (CGS)
 Edmonton
 eP 11 34 (23)
 Mould Bay
 iP 11 34 14

SEPTEMBER 10
 U.S.C.G.S.
 53.8N, 159.9W
 Alaska Peninsula Region
 H = 17 01 07.3
 h 33 km
 MAG 5.3 (CGS)
 Alert
 eP 17 08 26 (d)

Mould Bay
 iP 17 06 52
 S 17 11 (34)
 Schefferville
 eP 17 10 03
 Yellowknife
 iP 17 06 31 c

SEPTEMBER 10
 U.S.C.G.S.
 55.2N, 157.1W
 Alaska Peninsula Region
 H = 18 03 30.7
 h 33 km
 MAG 4.1 (CGS)
 Edmonton
 eP 18 08 57
 Mould Bay
 iP 18 09 02

SEPTEMBER 10
 U.S.C.G.S.
 19.0S, 175.8E
 Tonga Islands Region
 H = 19 14 26.8
 h 33 km
 MAG 5.3 (CGS)
 Edmonton
 (eP) 19 27 44
 Victoria
 eP 19 27 07

SEPTEMBER 11
 U.S.C.G.S.
 12.3N, 59.5W
 Windward Islands Region
 H = 00 52 58.7
 h 33 km
 MAG 4.2 (CGS)
 Edmonton
 (eP) 01 02 56



DOMINION OBSERVATORIES

SEPTEMBER 11
U.S.C.G.S.
44.3N, 114.7W
Central Idaho
H = 02 08 44.7
h 15 km
MAG 4.9 (CGS)
Edmonton
eP 02 10 55
Mould Bay
iP 02 15 14
eS 02 25 (20)
Victoria
eP 02 10 33
Yellowknife
eP 02 12 56
i 02 18 20

SEPTEMBER 11
Shawinigan Falls
e 02 24 (04)

SEPTEMBER 11
Edmonton
eP 04 23 (19)

SEPTEMBER 11
Canadian Arctic
H = 04 20 31
MAG
Yellowknife
Pn 04 21 50
Sn 04 22 50
Lg 04 23 20
D = 600 km

SEPTEMBER 11
U.S.C.G.S.
3.5S, 131.2E
Ceram
H = 08 59 37.6
h 33 km
MAG 5.7 (CGS)
Mould Bay
eP 09 13 11

SEPTEMBER 11
U.S.C.G.S.
33.2N, 110.7W
Arizona
H = 11 59 41.2
h 33 km
MAG 4.1 (CGS)
Edmonton
eP 12 04 (18)

SEPTEMBER 11
48.4N, 130.1W
West of Vancouver Island
H = 19 13 49
MAG 2.8
Port Hardy
eP 19 14 35.6
eS 19 15 15.4
D = 326 km
Victoria
eP 19 15 06.8
D = 500 km

SEPTEMBER 11
Schefferville
eP 19 36 56

SEPTEMBER 12
U.S.C.G.S.
44.2N, 114.8W
Central Idaho
H = 06 23 51.7
h 33 km
MAG 4.4 (CGS)
Edmonton
eP 06 26 00
Victoria
eP 06 25 38

SEPTEMBER 12
U.S.C.G.S.
34.9N, 32.2E
Cyprus
H = 08 18 57.9
h 55 km
MAG 5.0 (CGS)

Alert
eP 08 28 33 c
Edmonton
eP 08 31 40 c
Schefferville
eP 08 29 46 c
Shawinigan Falls
eP 08 30 33 c

SEPTEMBER 12
Edmonton
eP 10 09 21 c

SEPTEMBER 12
Edmonton
eP 12 31 (13)

SEPTEMBER 12
U.S.C.G.S.
7.7N, 35.9W
North Atlantic Ocean
H = 13 10 17.9
h 33 km
MAG 5.0 (CGS)
Alert
eP 13 22 01 (c)
Edmonton
eP 13 22 06 c
Schefferville
eP 13 19 34 c

SEPTEMBER 13
U.S.C.G.S.
29.1N, 105.6W
Chihuahua Mexico
H = 10 51 56.6
h 33 km
MAG 4.7 (CGS)
Edmonton
eP 10 57 (17)
Victoria
eP 10 57 07

SEPTEMBER 13
Alert
eP 11 01 (33)



SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 13
Canadian Arctic
H = 12 13 18.5
MAG 1.8
Resolute
Pi 12 13 22
Si 12 13 25
D = 24.6 km

SEPTEMBER 13
Resolute
iP 12 14 22 d
i 12 14 25

SEPTEMBER 13
Ottawa
eP 15 01 01

SEPTEMBER 13
Alert
iP 17 08 48 c
Edmonton
eP 17 03 50 c
Halifax
iP 17 07 35 c
Mould Bay
iP 17 07 32 c
iS 17 13 28
Ottawa
eP 17 06 20
Resolute
iP 17 07 27 c
i 17 09 38
Schefferville
eP 17 07 16 c
Shawinigan Falls
eP 17 06 (38)
Victoria
eP 17 02 53
Yellowknife
iP 17 05 28 c

SEPTEMBER 13
U.S.C.G.S.
53.0N, 175.0W
Andreanof Islands,
Aleutian Islands
H = 23 02 07.2
h 220 km
MAG 4.9 (CGS)
Alert
eP 23 09 28 c
Edmonton
eP 23 08 47 c
Mould Bay
eP 23 08 09
Schefferville
eP 23 11 32 d
Yellowknife
eP 23 08 18

SEPTEMBER 14
U.S.C.G.S.
3.5S, 131.2E
Ceram Region
H = 00 15 45.2
h 33 km
MAG 4.4 (CGS)
Mould Bay
eP 00 29 (19)

SEPTEMBER 14
U.S.C.G.S.
22.0N, 121.3E
Southern Formosa
H = 02 13 41.2
h 90 km
MAG 5.0 (CGS)
Alert
eP 02 25 18 c
Mould Bay
iP 02 25 16
Resolute
eP 02 25 45 c

SEPTEMBER 14
U.S.C.G.S.
33.3N, 118.6W
Off Coast of Southern
California
H = 03 51 13.6
h 14 km
MAG 4.8 (CGS)
Edmonton
eP 03 55 50 (c)
Mould Bay
eP 03 59 17 d

SEPTEMBER 14
U.S.C.G.S.
31.4S, 179.0W
Kermadec Islands
H = 03 52 16.9
h 33 km
MAG 4.9 (CGS)
Ottawa
eP 04 11 09

SEPTEMBER 14
Victoria
eP 04 35 47

SEPTEMBER 14
U.S.C.G.S.
42.2N, 142.3E
Near South Coast of
Japan
H = 06 45 08.3
h 50 km
MAG 4.3 (CGS)
Edmonton
eP 06 55 44 d

DOMINION OBSERVATORIES

SEPTEMBER 14
U.S.C.G.S.
19.0N, 145.0E
Mariana Islands Region
H = 07 17 18.5
h 610 km
MAG 5.0 (CGS)
Alert
eP 07 28 16 (d)
Edmonton
eP 07 28 36
Mould Bay
iP 07 27 49 d
Resolute
eP 07 28 22 d
Yellowknife
iP 07 28 16

SEPTEMBER 14
U.S.C.G.S.
25.5N, 142.6E
Volcano Islands Region
H = 09 26 46.9
h 43 km
MAG 4.5 (CGS)
Edmonton
eP 09 38 41 c
Mould Bay
eP 09 37 39

SEPTEMBER 14
U.S.C.G.S.
20.1S, 68.2W
Bolivia - Chile Border
H = 11 48 18.0
h 33 km
MAG 4.4 (CGS)
Edmonton
eP 12 00 40 d

SEPTEMBER 14
U.S.C.G.S.
44.2N, 114.8W
Central Idaho
H = 15 58 03.8
h 33 km
MAG 4.3 (CGS)
Edmonton
eP 16 00 (12)

SEPTEMBER 14
U.S.C.G.S.
33.6S, 126.7W
South Pacific Ocean
H = 16 16 51.8
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 16 29 35

SEPTEMBER 14
Edmonton
eP 16 42 (13)

SEPTEMBER 14
U.S.C.G.S.
36.7N, 121.8W
Monterey County,
California
H = 19 46 15.8
h 15 km
MAG 5.4 (CGS)
Edmonton
eP 19 50 21
Mould Bay
eP 19 53 52 d
Resolute
eP 19 53 55 d
Victoria
eP 19 49 10

SEPTEMBER 14
U.S.C.G.S.
36.7N, 122.0W
Monterey County,
California
H = 20 28 08.5
h 15 km
MAG 4.3 (CGS)
Edmonton
eP 20 32 (14)

SEPTEMBER 15
U.S.C.G.S.
10.3S, 165.6E
Santa Cruz Islands
H = 00 46 54.1
h 43 km
MAG 6.3 (CGS)
Alert
eP 01 01 (02)
Edmonton
eP 01 00 03 d
Halifax
eP' 01 05 53
Mould Bay
iP 01 00 20 d
eS 01 10 59
Resolute
eP 01 00 46 d
Schefferville
eP' 01 05 (45)
Shawinigan Falls
eP' 01 05 (43)
e 01 06 58
Victoria
eP 00 59 24
Yellowknife
eP 01 00 (07)

SEPTEMBER 15
Edmonton
eP 02 10 47
Mould Bay
eP 02 11 (06)

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 15
U.S.C.G.S.
44.3N, 114.8W
Central Idaho
H = 05 35 00.2
h 33 km
Mag 3.9 (CGS)
Edmonton
eP 05 37 (11)

SEPTEMBER 15
U.S.C.G.S.
25.2N, 141.0E
Volcano Islands Region
H = 20 29 50.0
h 33 km
Mag 4.3 (CGS)
Mould Bay
iP 20 40 (47) d

SEPTEMBER 15
U.S.C.G.S.
63.2N, 152.0W
Central Alaska
H = 22 03 49.5
h 122 km
Mag 3.9 (CGS)
Mould Bay
eP 22 07 (41)
Yellowknife
eP 22 07 36

SEPTEMBER 16
U.S.C.G.S.
22.4N, 120.5E
Southern Formosa
H = 00 06 50.8
h 33 km
Mag 4.8 (CGS)
Mould Bay
eP 00 18 30 c

SEPTEMBER 16
U.S.C.G.S.
55.0N, 166.0E

Komandorskie Islands
Region
H = 09 43 55.3
h 33 km
Mag 4.7 (CGS)
Edmonton
eP 09 52 07
Mould Bay
eP 09 50 35 d

SEPTEMBER 16
U.S.C.G.S.
44.2N, 114.7W
Central Idaho
H = 12 06 15.9
h 33 km
Mag 4.2 (CGS)
Edmonton
eP 12 08 25

SEPTEMBER 16
U.S.C.G.S.
78.6N, 6.7E
Svalbard Region
H = 16 14 45.0
h 33 km
Mag 4.3 (CGS)
Alert

eP 16 17 24
Mould Bay
eP 16 19 (47)

SEPTEMBER 16
U.S.C.G.S.
43.2N, 126.8W
Off Coast of Oregon
H = 17 15 34.5
h 33 km
Mag 4.7 (CGS)
Mould Bay
eP 17 22 13

SEPTEMBER 16
Victoria
eP 20 44 (30)

SEPTEMBER 17
50°.2N, 129°.2W
Queen Charlotte Sound
H = 00 22 57
Mag 4.0
Port Hardy
eP 00 23 19.3
eS 00 23 36.4
D = 140 km
Victoria
eP 00 24 00
D = 462 km

SEPTEMBER 17
U.S.C.G.S.
10.6S, 78.2W
Central Peru
H = 05 54 33.7
h 61 km
Mag 5.5 (CGS)
Alert
eP 06 07 42 (d)
Edmonton
iP 06 05 41 d
Halifax
eP 06 04 13

DOMINION OBSERVATORIES

London
iP 06 03 48 d
Mould Bay
iP 06 07 28
i 06 17 (52)
Ottawa
eP 06 04 04.8
iP 06 04 23
Resolute
eP 06 07 (07)
Scarborough
eP 06 03 53
Shawinigan Falls
eP 06 04 15
Victoria
eP 06 05 48 d
Yellowknife
iP 06 06 27

SEPTEMBER 17
U.S.C.G.S.
1.5S, 77.9W
Ecuador
H = 07 34 38.7
h 178 km
Mag 4.0 (CGS)
Mould Bay
iP 07 46 35 c

SEPTEMBER 17
U.S.C.G.S.
10.1S, 165.3E
Santa Cruz Islands
H = 19 20 08.2
h 17 km
Mag 6.1 (CGS)
Alert
e(P) 19 34 (20)
Edmonton
eP 19 33 21 (c)
Halifax
eP 19 39 12 c
Mould Bay
iP 19 33 38
i 19 44 19

Resolute
eP 19 34 (05)
Scarborough
eP 19 35 (03)
Schefferville
eP 19 39 03
Shawinigan Falls
eP 19 38 (57)
i 19 40 14
Victoria
eP 19 32 47
Yellowknife
iP 19 33 29

SEPTEMBER 17
Ottawa
eP 19 35 (12)

SEPTEMBER 17
U.S.C.G.S.
10.1S, 165.0E
Santa Cruz Islands
H = 19 57 40.3
h 36 km
Mag 4.8 (CGS)
Victoria
eP 20 10 16

SEPTEMBER 17
U.S.C.G.S.
9.9S, 164.7E
Santa Cruz Islands
H = 20 00 56.6
h 33 km
Mag 5.3 (CGS)
Edmonton
e(P) 20 14 09
Victoria
eP 20 13 33

SEPTEMBER 17
U.S.C.G.S.
10.2S 165.1E
Santa Cruz Island
H = 22 28 29.6

h 33 km
Mag 5.2 (CGS)
Edmonton
eP 22 41 (40)

SEPTEMBER 18
U.S.C.G.S.
10.7S, 165.1E
Santa Cruz Islands
H = 01 55 46.2
h 28 km
Mag 5.0 (CGS)
Victoria
eP 02 08 25 (c)

SEPTEMBER 18
H = 12 12 00
Mag 2.1
Port Hardy
eP 12 12 15.0
eS 12 12 26.1
D = 91 km

SEPTEMBER 18
U.S.C.G.S.
38.5N, 57.2E
Turkmen S.S.R.
H = 15 42 02.7
h 33 km
Mag 5.1 (CGS)
Mould Bay
eP 15 52 44

SEPTEMBER 18
U.S.C.G.S.
40.9N, 29.2E
Turkey
H = 16 58 12.5
h 33 km
Mag 5.2 (CGS)

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 18
U.S.C.G.S.
40.9N, 29.2E
Turkey
H = 16 58 12.5
h 33 km
Mag 5.2 (CGS)
Alert
eP 17 07 06 c
Halifax
iP 17 08 48 c
London
eP 17 09 55 c
Mould Bay
iP 17 08 28
Resolute
eP 17 08 11
Schefferville
eP 17 08 24 d
Shawinigan Falls
eP 17 09 (14)
Victoria
eP 17 10 58

SEPTEMBER 18
Edmonton
e(P) 18 16 30

SEPTEMBER 18
68°30' N, 70°05'W
About 100 Miles S. of
Clyde Inlet, N.W.T.
H = 18 36 13.6
Mag 4.8
Frobisher
Pn 00 00 00
Sn-Pn 00' 56"
Lg-Pn 01' 19.5"
D = 535 km
Mould Bay
Pn 22 35 10
Sn 22 38 05
Lg 22 40 04
D = 1790 km
Resolute
Pn 22 33 45.5
Sn 22 35 30
I₃ 22 36 31.5
D = 1075 km

SEPTEMBER 18
Lg 18 41 15.5
D = 1075 km
Schefferville
Pn 18 39 27
Sn 18 41 53
Lg 18 43 21
D = 1525 km

SEPTEMBER 19
U.S.C.G.S.
47.1N 27.4W
North Atlantic Ocean
H = 16 49 29.9
h 33 km
Mag
Edmonton
eP 16 58 39

SEPTEMBER 19
Alert
e(P) 18 17 38
Mould Bay
eP 18 19 41

SEPTEMBER 19
About 360 Miles from
Montreal.
H = 18 47 49.5
h 22 km
Mag 3.8
Montreal
Pn 18 49 06.5
(P₁) 18 49 14
Sn 18 50 06
Lg 18 50 35
D = 585 km

SEPTEMBER 20
U.S.C.G.S.
76.5N, 7.9E
Svalbard Region
H = 03 03 32.9
h 33 km
Mag 4.7 (CGS)

DOMINION OBSERVATORIES

Alert
eP 03 06 29

Edmonton
eP 03 11 47 (c)

Mould Bay
eP 03 08 (50)

Resolute
eP 03 08 (33)

Victoria
eP 03 12 37

SEPTEMBER 20
U.S.C.G.S.
21.5S, 68.3W
Bolivia-Chile Border
H = 07 25 11.8
h 125 km
Mag 4.7 (CGS)

Edmonton
eP 07 37 27 d

Victoria
eP 07 37 36

SEPTEMBER 20
Edmonton
eP 14 53 46

SEPTEMBER 20
U.S.C.G.S.
21.5S, 68.0W
Chile-Bolivia Border
H = 14 41 22.6
h 155 km
Mag 4.8 (CGS)

Schefferville
e(P) 14 52 54

Victoria
eP 14 53 44

SEPTEMBER 20
50°4N, 129.°5W
H = 17 15 22
Mag 3.3

Alberni
eP 17 16 12
D = 356 km

Port Hardy
eP 17 15 45.9
eS 17 16 04.4
D = 152 km

Victoria
eP 17 16 29
D = 494 km

SEPTEMBER 20
Shawinigan Falls
e 19 15 26

SEPTEMBER 21
H = 00 59 51
Mag 2.1

Port Hardy
eP 01 00 15.9
eS 01 00 34.8
D = 155 km

SEPTEMBER 21
71.0°N, 72.9°W
Near Dexterity Fo.
Baffin Island N.W.T.
H = 21 51 24
Mag 4.1

Frobisher
Pn taken as 0' 00"
Sn-Pn = 1' 20"
Lg - Pn = 2' 01"
D = 790 km

Lg 21 55 15
D = 810 km

Schefferville
Lg 21 59 58
D = 1834 km

SEPTEMBER 21
U.S.C.G.S.
17.8S, 68.8W
Peru-Bolivia Border
H = 22 11 32.2
h = 171
Mag 5.1 (CGS)

Edmonton
eP 22 23 (25)

Halifax
eP 22 21 39

Ottawa
eP 22 21 43

Schefferville
eP 22 22 40 (c)

Shawinigan Falls
eP 22 21 50

Victoria
eP 22 23 34

SEPTEMBER 22
U.S.C.G.S.
52.5N, 174.9W
Andreanof Islands
Aleutian Islands
H = 02 49 03.4
h 105 km
Mag 4.8 (CGS)

Alert
e(P) 02 56 39

Edmonton
eP 02 55 55

Mould Bay
iP 02 55 19 d

Victoria
eP 02 55 25

SEPTEMBER 22
U.S.C.G.S.
19.3S, 175.9E
Fiji Islands Region
H = 02 56 24.3
h 28 km
Mag 5.8 (CGS)

Edmonton
eP 03 09 41

Victoria
eP 03 09 06 (d)

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 22
U.S.C.G.S.
29.3N, 55.3E

Southern Iran
H = 10 40 55.8
h 33 km
MAG 4.7 (CGS)

Alert
eP 10 51 33 c

Mould Bay
iP 10 52 33 c

SEPTEMBER 22
71.0N, 72.9W
Near Dexterity Fd. Baffin
Island, N.W.T.
H = 11 39 24
MAG 4.4

Frobisher
Pn taken as 0' 00"
Sn - Pn 1' 20"
Lg - Pn 2' 01"
D = 790 km

Resolute
Pn 11 41 09
Sn 11 42 24
Lg 11 43 10
D = 810 km

SEPTEMBER 22
50.5N, 129.6W
West of Vancouver Island
H = 13 35 21
MAG 2.8

Port Hardy
eP 13 35 45.5
eS 13 36 04.5
D = 156 km

Victoria
eP 13 36 29
D = 502 km

SEPTEMBER 22
U.S.C.G.S.
41.9N, 126.7W

Off Coast of Northern
California
H = 15 58 06.1
h 33 km
MAG 4.3 (CGS)

Mould Bay
eP 16 04 (52)

Victoria
eP 15 59 47

SEPTEMBER 22
U.S.C.G.S.
19.2S, 175.9E

Tonga Islands Region
H = 19 21 57.1
h 24 km

Edmonton
eP 19 35 15

SEPTEMBER 22
Victoria
eP 19 35 05

SEPTEMBER 22
U.S.C.G.S.
62.9N, 148.8W

Central Alaska
H = 20 33 47.7
h 53 km
MAG 4.0 (CGS)

Edmonton
eP 20 38 (30)

Mould Bay
eP 20 37 38

SEPTEMBER 22
U.S.C.G.S.
44.3N, 114.6W

Central Idaho
H = 21 13 35.6
h 33 km
MAG 3.9 (CGS)

Edmonton
eP 21 15 (48)

Victoria
eP 21 15 21

SEPTEMBER 22
U.S.C.G.S.
37.5N, 20.6E

Ionian Sea
H = 22 32 10.0
h 33 km
MAG 4.6 (CGS)

Mould Bay
eP 22 42 40 (c)

SEPTEMBER 22
Mould Bay
eP 22 58 26

SEPTEMBER 23
U.S.C.G.S.
16.6S, 28.6E

Northern Rhodesia
H = 06 40 36.5
h 33 km
MAG 5.5 (CGS)

Edmonton
(eP) 06 59 51

SEPTEMBER 23
U.S.C.G.S.
16.6S, 28.8E

Northern Rhodesia
H = 09 01 56.8
h 33 km
MAG 5.8 (CGS)

Edmonton
eP 09 21 11

Mould Bay
eP 09 20 (41)



DOMINION OBSERVATORIES

SEPTEMBER 23
U.S.C.G.S.
33.7N, 117.0W
Riverside County,
California
H = 14 41 51.5
h 14 km
MAG 4.3 (CGS)
Edmonton
eP 14 46 22
Mould Bay
eP 14 49 50

SEPTEMBER 23
Victoria
eP 14 43 40

SEPTEMBER 23
U.S.C.G.S.
51.3N, 179.2W
Andreanof Islands,
Aleutian Islands
H = 17 02 36.6
h 33 km
MAG 5.2 (CGS)
Alert
eP 17 10 33 (c)
Mould Bay
eP 17 09 17
i 17 11 55
Schefferville
eP 17 12 42 c
Shawinigan Falls
eP 17 13 06
Victoria
eP 17 09 31 (c)

SEPTEMBER 23
U.S.C.G.S.
29.6N, 50.9E
Persian Gulf
H = 18 33 47.4
h 39 km
MAG 4.7 (CGS)
Mould Bay
eP 18 45 22 (c)

SEPTEMBER 23
Mould Bay
eP 19 31 (19)

SEPTEMBER 23
Shawinigan Falls
eP 21 01 37

SEPTEMBER 24
U.S.C.G.S.
41.0N, 29.0E
Turkey
H = 02 10 44.9
h 33 km
MAG 4.6 (CGS)
Edmonton
eP 02 22 56 c

SEPTEMBER 24
Mould Bay
eP 05 19 30 d

SEPTEMBER 24
U.S.C.G.S.
17.8N, 100.9W
Off Coast of Guerrero,
Mexico
H = 05 33 31.0
h 33 km
MAG 4.2 (CGS)
Edmonton
eP 05 40 35 (c)
Mould Bay
eP 05 43 (31)
Victoria
eP 05 40 27

SEPTEMBER 24
U.S.C.G.S.
44.8N, 111.0W
Yellowstone National Park
H = 06 31 50.5
h 33 km
MAG 3.1 (CGS)
Edmonton
eP 06 33 (54)

SEPTEMBER 24
U.S.C.G.S.
28.6S, 68.4W
La Roija, Province,
Argentina
H = 03 30 01.6
h 94 km
MAG 4.9 (CGS)
Edmonton
eP 08 42 51 d
Victoria
eP 08 42 57

SEPTEMBER 24
U.S.C.G.S.
10.6S, 78.0W
Near Coast of Peru
H = 16 30 16.0
h 80 km
MAG 6.0 (CGS)
Alert
eP 16 43 23 c
Edmonton
eP 16 41 22 c
Halifax
iP 16 39 53 (c)
Mould Bay
iP 16 43 08 c
eS 16 53 33
London
iP 16 39 28 c
Resolute
eP 16 42 47
i 16 46 (12)
Schefferville
iP 16 40 54 c
Shawinigan Falls
iP 16 39 55 c
Victoria
eP 16 41 27 (c)

SEPTEMBER 24
Alert
eP 16 39 22

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 24
71.4N, 73.3W
Near East Coast of
Baffin Island, N.W.T.
H = 16 52 42
MAG 4.3
Frobisher
Pn taken as 0' 00"
Sn-Pn 1' 22"
Lg-Pn 2' 03"
D = 820 km
Resolute
Lg 16 56 30
D = 829 km

SEPTEMBER 24
Mould Bay
eP 18 01 24
i 29

SEPTEMBER 24
U.S.C.G.S.
10.3S, 164.6E
Santa Cruz Islands
H = 22 08 32.1
h 33 km
MAG 5.0 (CGS)
Edmonton
eP 22 21 (45)

SEPTEMBER 25
71.3N, 73.3W
Near East Coast of
Baffin Island, N.W.T.
H = 00 45
MAG 4.2
Frobisher
Pn taken as 0' 00"
Sn - Pn 01' 22"
Lg - Pn 02' 03"
D = 820 km

SEPTEMBER 25
U.S.C.G.S.
16.5N, 86.6W
Off North Coast of
Honduras
H = 00 47 38.0
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 00 57 57

SEPTEMBER 25
U.S.C.G.S.
16.6N, 87.1W
Honduras
H = 01 09 39.7
h 33 km
MAG 4.2 (CGS)
Edmonton
eP 01 17 (36)
Mould Bay
eP 01 19 57 d
Schefferville
eP 01 17 20

SEPTEMBER 25
U.S.C.G.S.
16.7S, 28.7E
Northern Rhodesia
H = 07 03 54.6
h 33 km
MAG 5.8 (CGS)
Edmonton
eP 07 23 (04)
Mould Bay
eP 07 22 39 d

SEPTEMBER 25
Victoria
eP 07 25 50

SEPTEMBER 25
72°45'N, 106°20'W
Victoria Island, NWT
H = 10 45 31
h 12 km
MAG 3.3
Resolute
Pn 10 46 28
P₁ 10 46 37.2
Sn 10 47 12.5
i 10 47 25
S₁ 10 47 29
D₁ = 420 km
Mould Bay
Pn taken as 0' 00"
Sn - Pn 0' 57"
D = 540 km

SEPTEMBER 25
U.S.C.G.S.
10.2S, 164.6E
Solomon Islands Region
H = 14 00 54.6
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 14 14 08
Victoria
eP 14 13 37

SEPTEMBER 25
U.S.C.G.S.
10.1S, 164.5E
Solomon Islands Region
H = 14 50 18.2
h 33 km
MAG 5.1 (CGS)
Edmonton
eP 15 03 (32)
Victoria
eP 15 02 56



DOMINION OBSERVATORIES

SEPTEMBER 26
U.S.C.G.S.
56.5N, 153.4W
Kodiak Island Region
H = 04 20 21.5
h 33 km
Mag 4.8 (CGS)
Alert
eP 04 27 10
Edmonton
eP 04 25 26
Mould Bay
eP 04 25 30(c)
iP 04 28 21
Resolute
eP 04 26 (16)
Schefferville
eP 04 28 42

SEPTEMBER 26
Alert
eP 04 30 00

SEPTEMBER 26
U.S.C.G.S.
50.4N, 176.9W
Andreanof Islands
Aleutian Islands
H = 05 28 07.3
h 33 km
Mag 5.3 (CGS)
Alert
eP 05 36 09
Edmonton
iP 05 35 27 d
Halifax
eP 05 39 13
London
eP 05 38 24 d
Mould Bay
eP 05 34 52 (d)
Ottawa
eP 05 38 32
Resolute
eP 05 35 (44)

Schefferville
eP 05 38 13 d
Shawinigan Falls
iP 05 38 37 c
Victoria
eP 05 34 52

SEPTEMBER 26
Victoria
eP 05 37 28

SEPTEMBER 26
U.S.C.G.S.
56.6N, 153.2W
Kodiak Island Region
H = 06 40 43.5
h 33 km
Mag 4.8 (CGS)
Alert
eP 06 47 31 c
Edmonton
eP 06 45 47
Mould Bay
eP 06 45 52 (c)
Resolute
eP 06 46 37

SEPTEMBER 26
Alert
eP 08 35 59

SEPTEMBER 26
Mould Bay
eP 10 15 18 (c)

SEPTEMBER 26
U.S.C.G.S.
17.4S, 178.8W
Fiji Islands
h = 10 53 57.3
h 512 km
Mag 4.0 (CGS)
Alert
e(P) 11 16 32
Mould Bay
eP 11 16 50 (c)

SEPTEMBER 27
U.S.C.G.S.
37.0N, 141.3E
Off East Coast of
Honshu, Japan
H = 16 26 49.8
h 81 km
Mag 4.1 (CGS)
Mould Bay
eP 16 36 25

SEPTEMBER 27
U.S.C.G.S.
27.9N, 66.1E
West Pakistan
H = 17 09 33.0
h 88 km
Mag 4.7 (CGS)
Mould Bay
eP 17 21 13

SEPTEMBER 27
Mould Bay
eP 17 57 (16)

SEPTEMBER 27
U.S.C.G.S.
45.6N, 149.5E
Kurile Islands
H = 18 04 38.4
h 80 km
Mag 4.7 (CGS)
Mould Bay
eP 18 12 59

SEPTEMBER 27
Mould Bay
eP 18 50 53

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 28
U.S.C.G.S.
49.8S, 125.9E
South of Australia
H = 00 33 55.1
h 33 km
Mag
Mould Bay
eP' 00 53 (25)

SEPTEMBER 28
U.S.C.G.S.
10.2N, 86.0W
Near West Coast of
West Rica
H = 05 25 03.2
h 33 km
Mag 4.1 (CGS)
Mould Bay
eP 05 36 02

SEPTEMBER 28
U.S.C.G.S.
22.9N, 94.5E
Western Burma
H = 06 00 25.4
h 108 km
Mag 5.6 (CGS)
Alert
eP 06 11 52
Mould Bay
eP 06 12 18
Resolute
eP 06 12 38

SEPTEMBER 28
U.S.C.G.S.
31.5S, 179.6E
Kermadec Islands
H = 06 58 12.7
h 457 km
Mag 5.0 (CGS)
Alert
i 07 16 18

Mould Bay
eP' 07 15 57 d
iP 07 18 49
Ottawa
eP' 07 16 12
iP 19 03
Resolute
eP' 07 16 07

SEPTEMBER 28
Schefferville
eP 07 19 02
Mould Bay
eP 07 26 (41)

SEPTEMBER 28
U.S.C.G.S.
44.8N, 129.9W
Off Coast of Oregon
H = 10 03 53.4
h 33 km
Mag 3.7 (CGS)
Edmonton
eP 10 07 (15)

SEPTEMBER 28
U.S.C.G.S.
39.3N, 136.0E
Sea of Japan
H = 11 04 13.6
h 351 km
Mag 3.8 (CGS)
Mould Bay
eP 11 13 14 c

SEPTEMBER 28
U.S.C.G.S.
59.6N, 156.2W
Central Alaska
H = 14 03 53.8
h 33 km
Mag 4.4 (CGS)
Mould Bay
eP 14 08 36

SEPTEMBER 29
U.S.C.G.S.
62.0S, 163.5E
Balleny Islands Region
H = 02 55 05.0
h 33 km
Mag
Mould Bay
eP' 03 14 42
Shawinigan Falls
e 03 14 49

SEPTEMBER 29
U.S.C.G.S.
36.4 N, 70.4E
Hindu Kush
H = 10 39 58.4
h 214 km
Mag 4.8 (CGS)
Mould Bay
iP 10 50 32 c

SEPTEMBER 29
U.S.C.G.S.
36.6N, 29.2E
Near North Coast of
Turkey
H = 13 35 45.3
h 33 km
Mag 4.5 (CGS)
Alert
eP 13 45 08
Edmonton
eP 13 48 18
Mould Bay
eP 13 46 (28)
Resolute
eP 13 46 12

DOMINION OBSERVATORIES

SEPTEMBER 29
71.4°N, 73.3°W
Near East Coast of
Baffin Island N.W.T.
H = 13 52 44
Mag 4.1
Frobisher
Pn taken as 0' 00"
Sn-Pn 1' 22"
Lg-Pn 2' 03"
D = 820 km
Resolute
Pn 14 54 30
Sn 14 55 45
Lg 14 56 29
D = 829 km
Schefferville
Lg 15 01 12
D = 1810 km

SEPTEMBER 29
U.S.C.G.S.
36.1N, 72.0E
Hindu Kush
H = 15 31 31.4
H 150 km
Mag 4.9 (CGS)
Mould Bay
iP 15 42 14 c

SEPTEMBER 29
U.S.C.G.S.
6.0N, 125.3E
Mindanao
Philippine Islands
H = 19 35 01.6
H 117 km
Mag 5.3 (CGS)
Mould Bay
eP 19 47 50 (c)
i 19 58 (11)
Resolute
eP 19 48 16

SEPTEMBER 29
U.S.C.G.S.
21.6N, 142.9E
Volcano Islands Region
H = 20 31 10.1
h 325 km
Mag 4.6 (CGS)
Alert
eP 20 42 20
Mould Bay
iP 20 41 54 c

SEPTEMBER 29
U.S.C.G.S.
6.9N, 73.0 W
Colombia
H = 21 58 22.8
h = 157 km
Mag 4.0 (CGS)
Mould Bay
eP 22 09 41 c

SEPTEMBER 29
U.S.C.G.S.
36.1N, 18.0E
Ionian Sea
H = 22 16 38.6
h 47 km
Mag 5.3 (CGS)
Alert
eP 22 25 54 (c)
Edmonton
eP 22 28 53 c
Halifax
eP 22 26 44 c
Mould Bay
iP 22 27 14 c
Ottawa
iP 22 27 32.5 c
Resolute
eP 22 26 50
Schefferville
eP 22 26 31 c
Shawinigan Falls
eP 22 27 17 (c)

Seven Falls
eP 22 27 08 (d)
Victoria
iP 22 29 31 c
SEPTEMBER 29
H = 22 36 16
Mag 2.1
Victoria
eP 22 36 57.0
D = 278 km

SEPTEMBER 29
U.S.C.G.S.
14.4N, 91.9W
Guatemala
H = 22 44 02.9
h 61 km
Mag 5.1 (CGS)
Alert
eP 22 55 03 (c)
Edmonton
eP 22 51 53
Mould Bay
eP 22 54 27 c
i 22 55 05
Ottawa
eP 22 50 41 c
Resolute
eP 22 54 (05)
Scarborough
eP 22 50 18
Schefferville
eP 22 52 12
Shawinigan Falls
eP 22 50 (58)
Victoria
iP 22 51 56 c

SEPTEMBER 29
U.S.C.G.S.
14.3 N, 92.0W
Guatemala
H = 23 05 22.5
h 33 km
Mag 4.4 (CGS)
Mould Bay
eP 23 15 (49)
i 23 16 18
j 23 16 56
Victoria
eP 23 13 19

SEPTEMBER 29
U.S.C.G.S.
14.5N, 92.0W
Guatemala
H = 23 08 20.8
h 42 km
Mag 4.5 (CGS)
Victoria
eP 23 16 15

SEPTEMBER 30
U.S.C.G.S.
14.1N, 91.9W
Near West Coast of'
Guatemala
H = 03 05 38.1
h 86 km
Mag 4.5 (CGS)
Mould Bay
eP 03 16 04
i 03 16 40
Victoria
eP 03 13 32

SEPTEMBER 30
U.S.C.G.S.
7.3N, 76.9W
Colombia
H = 03 46 51.3
h 33 km
Mag 4.6 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Edmonton
eP 03 56 17
Mould Bay
eP 03 58 16 c
Ottawa
iP 03 54 10 d
Resolute
eP 03 57 49
Schefferville
eP 03 55 31 c
Victoria
eP 03 56 33

SEPTEMBER 30
U.S.C.G.S.
1.3S, 128.5E
Ceram Sea
H = 08 54 15.0
H 30 km
Mag 4.9 (CGS)
Mould Bay
eP 09 07 42

SEPTEMBER 30
U.S.C.G.S.
38.0N, 111.0W
Southern Utah
H = 09 17 42.2
h 33 km
Mag 4.5 (CGS)
Edmonton
eP 09 21 21
Mould Bay
i 09 25 02
i 09 27 20

SEPTEMBER 30
U.S.C.G.S.
52.6N, 169.5W
Fox Islands
Aleutian Islands
H = 12 36 25.4
h 33 km
Mag 4.1 (CGS)

Edmonton
eP 12 43 00
Mould Bay
eP 12 42 36

SEPTEMBER 30
Mould Bay
eP 13 09 (32)

SEPTEMBER 30
U.S.C.G.S.
9.4N, 142.3E
Mariana Islands Region
H = 22 59 52.8
h 33 km
Mag 4.4 (CGS)
Mould Bay
eP 23 12 17

OCTOBER 1
71.4°N, 73.3°W
Near East Coast of
Baffin Island, N.W.T.
H = 02 26 33
Mag 4.1

Frobisher
Pn taken as 0' 00"
Sn-Pn = 01' 22"
Lg - Pn = 02' 03"
D = 820 km
Resolute
Pn 02 28 19
Sn 02 29 36
Lg 02 30 20
D = 829

OCTOBER 1
U.S.C.G.S.
6.8N, 73.1W
Colombia
H = 02 43 27.1
h 132 km
Mag 4.6 (CGS)



DOMINION OBSERVATORIES

OCTOBER 1
Mould Bay
eP 02 54 48 d
Schefferville
e(P) 02 51 56

OCTOBER 1
Mould Bay
eP 04 26 36 (d)

OCTOBER 1
Alert
eP 05 11 22
S 05 12 39

OCTOBER 1
U.S.C.G.S.
18.5N, 145.2E
Mariana Islands
H = 05 00 21.8
h 225 km
Mag 4.4 (CGS)
Mould Bay
eP 05 11 31

OCTOBER 1
63°40'N 79°35'W
Foxe Islands N.W.T.
or
67°50' N, 62°15'W
Just off Coast of Baffin
Island, N.W.T.
H = 06 45 35
Mag 4.1
Frobisher
Pn - taken as 0' 00"
Sn - Pn 00' 56"
Lg - Pn 00' 23"
D = 540 km
Resolute
Pn 06 48 25
Sn 06 50 36
Lg 06 51 54
D = 1350

OCTOBER 1
U.S.C.G.S.
10.2N, 84.5W
Costa Rica
H = 10 30 31.6
h 46 km
Mag 4.6 (CGS)
Mould Bay
eP 10 41 30

OCTOBER 1
U.S.C.G.S.
52.6N, 168.1W
Fox Islands
Aleutian Islands
H = 13 22 25.0
h 33 km
Mag 3.9 (CGS)
Mould Bay
eP 13 28 29

OCTOBER 1
U.S.C.G.S.
36.1N, 22.3 E
South of Greece
H = 17 21 54.0
h 106 km
Mag 4.6 (CGS)
Mould Bay
eP 17 32 26

OCTOBER 1
Mould Bay
eP 18 59 24

OCTOBER 2
Mould Bay
eP 00 09 02

OCTOBER 2
Canadian Arctic
H = 02 09 47
Mag 1.5
Resolute
P1 02 10 08
S1 02 10 24
D = 131 km

OCTOBER 2
U.S.C.G.S.
5.4S, 152.0E
New Britain
H = 03 31 27.0
h 65 km
Mag 5.6 (CGS)
Edmonton
eP 03 44 54
Mould Bay
eP 03 44 43 c
Victoria
eP 03 44 22(c)

OCTOBER 2
Mould Bay
eP 05 42 03
iP 05 42 04
eS 05 42 19

OCTOBER 2
U.S.C.G.S.
20.8S, 174.1W
Tonga Islands
H = 05 47 05.5
h 33 km
Mag 5.3 (CGS)
Victoria
eP 05 59 26

OCTOBER 2
U.S.C.G.S.
36.3N 142.4E
Off East Coast of
Honshu Japan
H - 09 51 41.1
h 48 km
Mag 4.1 (CGS)
Mould Bay
eP 10 01 (22)

OCTOBER 2
Mould Bay
eP 12 28 (14)

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 2
Mould Bay
eP 14 36 04

OCTOBER 2
U.S.C.G.S.
35.1N, 23.5E
Near West Coast
of Crete
H = 21 05 14.7
h 72 km
Mag 4.5 (CGS)
Mould Bay
eP 21 15 58 c
Schefferville
eP 21 15 32

OCTOBER 2
Mould Bay
eP 22 00 17 c

OCTOBER 3
U.S.C.G.S.
18.3N, 105.6W
Off Coast of Colima
Mexico
H = 01 22 40.6
h 33 km
Mag 4.2 (CGS)
Mould Bay
eP 01 32 32

OCTOBER 3
Mould Bay
eP 03 24 (57)

OCTOBER 3
U.S.C.G.S.
10.1N, 62.5W
Near Coast of Venezuela
H = 05 27 58.5
h 62 km
Mag -
Edmonton
eP 05 37 (52)
Mould Bay
eP 05 39 21

OCTOBER 3
U.S.C.G.S.
22.3N, 121.1E
Near East Coast
of Taiwan
H = 05 32 18.4
h 55 km
MAG 4.4 (CGS)
Mould Bay
eP 05 43 55

OCTOBER 3
Mould Bay
eP 13 52 (13)

OCTOBER 3
U.S.C.G.S.
58.5S, 25.1W
Sandwich Islands
H = 15 48 17.2
h 54 km
MAG (CGS)
Alert
eP' 16 07 42
Edmonton
eP' 16 07 (26)
Mould Bay
eP' 16 07 53
i 16 11 32
Resolute
eP' 16 07 (37)
Schefferville
eP' 16 07 00

OCTOBER 3
Resolute
eP 16 11 (20)

OCTOBER 3
Mould Bay
eP 16 20 59 c

OCTOBER 3
Mould Bay
eP 17 04 50

OCTOBER 3
Mould Bay
eP 17 42 06

OCTOBER 3
U.S.C.G.S.
58.6S, 25.5W
Sandwich Islands
H = 17 55 54.2
h 33 km
MAG 5.5 (CGS)
Edmonton
eP' 18 15 (04)
Mould Bay
eP' 18 15 (25)
i 18 19 (01)

OCTOBER 3
Mould Bay
eP 18 54 (45)

OCTOBER 3
U.S.C.G.S.
32.2N, 131.6E
Kyushu, Japan
H = 23 24 34.7
h 33 km
MAG 5.7 (CGS)
Alert
iP 23 35 15 c
Edmonton
eP 23 36 31 (c)
Mould Bay
iP 23 35 02 c
Resolute
eP 23 35 39 c
Schefferville
eP 23 37 42 c
Victoria
eP 23 36 17

DOMINION OBSERVATORIES

OCTOBER 4
U.S.C.G.S.
32.8N, 131.4E
Kyushu, Japan
H = 00 27 56.7
h 21 km
MAG 4.9 (CGS)
Mould Bay
eP 00 38 24 c
Victoria
eP 00 39 34

OCTOBER 4
Mould Bay
eP 01 13 31

OCTOBER 4
eP 02 56 06 d

OCTOBER 4
U.S.C.G.S.
20.7S, 174.0W
Tonga Islands
H = 02 47 32.1
h 33 km
MAG 5.3 (CGS)
Edmonton
eP 03 00 (32)

OCTOBER 4
Resolute
eP 03 07 53

OCTOBER 4
Mould Bay
eP 03 34 (06)

OCTOBER 4
U.S.C.G.S.
58.4S, 25.0W
Sandwich Islands
H = 03 44 28.5
h 33 km
MAG 5.2 (CGS)
Mould Bay
eP 04 04 07

OCTOBER 4
Mould Bay
eP 04 11 (10)

OCTOBER 4
47.5N, 130.5W
Off Coast of
Washington, USA
H = 07 14 53
MAG 4.4
Port Hardy
eP 07 16 11.6
D = 440 km
Victoria
iP 07 16 18.2
D = 630 km

OCTOBER 4
U.S.C.G.S.
16.1N, 96.8W
Near Coast of
Oaxaca Mexico
H = 08 34 53.0
h 41 km
MAG 4.5 (CGS)
Edmonton
eP 08 42 20
Mould Bay
eP 08 45 07 c

OCTOBER 4
U.S.C.G.S.
18.1N, 60.1E
Arabian Sea
H = 13 29 44.6
h 33 km
MAG 5.3 (CGS)
Alert
i 13 41 32
Mould Bay
eP 13 42 23

OCTOBER 4
U.S.C.G.S.
52.0N, 169.7E
Near Islands,
Aleutian Islands
H = 14 04 57.0
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 14 12 01

OCTOBER 4
Mould Bay
eP 15 26 (13)

OCTOBER 4
Mould Bay
eP 18 48 44 c

OCTOBER 5
Mould Bay
eP 00 42 (26)

OCTOBER 5
U.S.C.G.S.
16.0S, 173.2W
Tonga Islands
H = 01 55 35.2
h 79 km
MAG 5.5 (CGS)
Edmonton
eP 02 08 07 (c)
Mould Bay
eP 02 09 00
Victoria
iP 02 07 26 c

OCTOBER 5
Mould Bay
eP 03 14 32

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 5
U.S.C.G.S.
43.9N, 144.4E
Hokkaido, Japan
H = 04 22 26.0
h 33 km
MAG 4.9 (CGS)
Victoria
eP 04 32 32 (c)

OCTOBER 5
U.S.C.G.S.
15.9S, 173.2W
Tonga Islands
H = 05 15 32.4
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 05 28 11
Victoria
eP 05 27 31

OCTOBER 5
U.S.C.G.S.
28.8N, 139.2E
South of Honshu, Japan
H = 07 32 19.0
h 454 km
MAG 4.6 (CGS)
Alert
iP 07 42 36 c
Edmonton
iP 07 43 25 c
Mould Bay
iP 07 42 14 c
Resolute
eP 07 42 51
Victoria
eP 07 43 06

OCTOBER 5
48.1N, 128.1W
Off Coast of
Washington, USA
H = 11 55 57
MAG 4.3
Alberni
eP 11 56 37.1
D = 276 km
Port Hardy
eP 11 56 40.0
D = 300 km
Victoria
eP 11 56 46.2
D = 351 km

OCTOBER 5
U.S.C.G.S.
11.6N, 42.8E
French Somaliland
H = 14 57 47.4
h 33 km
MAG 5.3 (CGS)
Alert
eP 15 10 00

OCTOBER 5
Victoria
eP 15 12 53
Port Hardy
eP 15 12 50

OCTOBER 5
Port Hardy
iP 18 36 24

OCTOBER 5
50.9N, 131.1W
West of Vancouver Island
H = 18 40 46
MAG 3.9
Alberni
eP 18 41 53.1
D = 494 km
Port Hardy
eP 18 41 24.4
D = 259 km

Victoria
eP 18 42 21.0
D = 723 km

OCTOBER 5
U.S.C.G.S.
52.1N, 178.1E
Rat Islands,
Aleutian Islands
H = 20 20 02.7
h 140 km
MAG 4.9 (CGS)
Alert
eP 20 27 43 (c)
Edmonton
eP 20 27 26 c
Mould Bay
iP 20 26 32
Resolute
eP 20 27 24

OCTOBER 5
U.S.C.G.S.
45.3N, 150.0E
Kurile Islands
H = 23 50 46.3
h 50 km
MAG 4.3 (CGS)
Mould Bay
eP 23 59 11
Resolute
eP 23 59 58

OCTOBER 6
Edmonton
iP 00 00 42 d

OCTOBER 6
Mould Bay
eP 01 17 02

DOMINION OBSERVATORIES

OCTOBER 6
 Canadain Arctic
 H = 08 04 08.8
 MAG 1.1
 Resolute
 P₁ 08 04 16
 S₁ 08 04 21.5
 D = 45 km

OCTOBER 6
 U.S.C.G.S.
 21.9N, 127.4W
 1200 km, Southwest of
 Guadalupe Island
 H = 08 48 12.4
 h 33 km
 MAG 4.0 (CGS)
 Mould Bay
 eP 08 57 39

OCTOBER 6
 U.S.C.G.S.
 22.0S, 69.4W
 Northern Chile
 H = 15 01 42.1
 h 33 km
 MAG 4.6 (CGS)
 Edmonton
 eP 15 14 10 c

OCTOBER 6
 U.S.C.G.S.
 33.9S, 70.0W
 Central Chile
 H = 17 15 33.9
 h 101 km
 MAG 5.1 (CGS)
 Mould Bay
 eP' 17 34 (06)

OCTOBER 6
 Mould Bay
 eP 17 56 40 d

OCTOBER 6
 H = 21 27 28
 MAG 2.3
 Victoria
 eP 21 28 10.9
 eS 21 28 43.2
 D = 265 km

OCTOBER 6
 Mould Bay
 eP 21 41 (31)

OCTOBER 6
 U.S.C.G.S.
 53.8N, 164.6W
 Fox Islands,
 Aleutian Islands
 H = 22 08 39.0
 h 33 km
 MAG 4.0 (CGS)
 Mould Bay
 eP 22 14 30

OCTOBER 7
 U.S.C.G.S.
 11.6N, 86.9W
 Near West Coast
 of Nicaragua
 H = 03 59 54.1
 h 50 km
 MAG 4.5 (CGS)
 Edmonton
 eP 04 08 18 c
 Mould Bay
 eP 04 10 42 c
 Ottawa
 eP 04 06 43
 Schefferville
 e(P) 04 08 13
 Shawinigan Falls
 eP 04 07 00
 Victoria
 eP 04 08 29

OCTOBER 7
 U.S.C.G.S.
 19.8N, 109.1W
 Revilla Gigedo Islands
 Region
 H = 05 35 16.7
 h 33 km
 MAG 4.7 (CGS)
 Mould Bay
 eP 05 44 57

OCTOBER 7
 Mould Bay
 eP 11 15 (29)

OCTOBER 7
 Canadian Arctic
 H = 12 06 47.3
 MAG 1.9
 Alert
 P₁ 12 07 11
 S₁ 12 07 29
 D = 148 km

OCTOBER 7
 U.S.C.G.S.
 12.9S, 76.8W
 Central Peru
 H = 12 43 53.6
 h 69 km
 MAG 5.4 (CGS)
 Edmonton
 eP 12 55 16 (c)
 Mould Bay
 eP 12 56 58 (c)
 Resolute
 eP 12 56 37
 Schefferville
 eP 12 54 46 (c)
 Seven Falls
 eP 12 53 55
 Shawinigan Falls
 eP 12 53 50 (c)
 Victoria
 eP 12 55 23 (c)

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 7
 U.S.C.G.S.
 23.6S, 179.9E
 Fiji Islands Region
 H = 13 14 24.6
 h 550 km
 MAG 5.7 (CGS)
 Edmonton
 eP 13 26 52 c
 Port Hardy
 eP 13 26 16
 Victoria
 eP 13 26 18 (c)

OCTOBER 7
 Mould Bay
 eP 13 31 46 c
 i 13 34 31
 Shawinigan Falls
 eP 13 33 35

OCTOBER 7
 Mould Bay
 eP 14 15 (18)

OCTOBER 7
 U.S.C.G.S.
 42.7N, 110.5E
 Outer Mongolia - Inner
 Mongolia Border
 H = 23 34 26.6
 h 33 km
 MAG 4.9 (CGS)
 Alert
 eP 23 43 54
 Edmonton
 eP 23 46 18
 Mould Bay
 eP 23 44 09
 i 23 44 14
 Resolute
 eP 23 44 45 c
 Schefferville
 eP 23 46 52 c
 Victoria
 eP 23 46 21

OCTOBER 8
 Mould Bay
 eP 00 15 28 c

OCTOBER 8
 U.S.C.G.S.
 15.1S, 173.2W
 Samoa Islands Region
 H = 00 17 01.1
 h 33 km
 MAG 5.7 (CGS)
 Edmonton
 eP 00 29 34 (d)
 Resolute
 eP 00 30 51
 Victoria
 eP 00 28 55

OCTOBER 8
 Mould Bay
 eP 02 26 (32)

OCTOBER 8
 U.S.C.G.S.
 28.6N, 95.1E
 Assam India
 H = 02 51 06.0
 h 24 km
 MAG 5.4 (CGS)
 Mould Bay
 eP 03 02 36 d

OCTOBER 8
 U.S.C.G.S.
 39.0N, 20.4E
 Near Ionian Coast
 of Greece
 H = 05 40 28.7
 h 33 km
 MAG 4.3 (CGS)
 Mould Bay
 eP 05 50 49

OCTOBER 8
 U.S.C.G.S.
 11.3N, 125.9E
 Samar Region
 Philippine Islands
 H = 06 26 17.6
 h 39 km
 MAG 5.4 (CGS)
 Mould Bay
 eP 06 38 49

OCTOBER 8
 Mould Bay
 eP 07 52 44

OCTOBER 8
 Mould Bay
 eP 08 11 15

OCTOBER 8
 U.S.C.G.S.
 76.5N, 86.5E
 Kara Sea
 H = 10 53 12.0
 h 25 km
 MAG 4.7 (CGS)
 Alert
 eP 10 57 (53) c
 Edmonton
 eP 11 02 05
 Mould Bay
 iP 10 58 51
 Resolute
 eP 20 59 22

OCTOBER 8
 Mould Bay
 eP 14 55 01

OCTOBER 8
 Mould Bay
 eP 17 16 (04)

OCTOBER 8
 Mould Bay
 eP 18 24 (17)

DOMINION OBSERVATORIES

<p>OCTOBER 8 Mould Bay eP 20 08 42 c</p> <p>OCTOBER 8 Mould Bay eP 21 46 (50)</p> <p>OCTOBER 9 Mould Bay iP 02 14 19 c</p> <p>OCTOBER 9 U.S.C.G.S. 53.8N, 170.5W Bering Sea H = 03 21 11.1 h 250 km MAG 4.3 (CGS) Mould Bay eP 03 26 (59)</p> <p>OCTOBER 9 Mould Bay iP 03 29 56 c</p> <p>OCTOBER 9 Mould Bay eP 03 47 12 c</p> <p>OCTOBER 9 71.4N, 73.3W Near Coast of Baffin Island, N.W.T. H = 04 06 59 MAG 4.0 Frobisher Lg - Sn 40 sec. D = 820 km Resolute Pn 04 08 45 Sn 04 10 05 Lg 04 10 50 D = 829 km</p>	<p>OCTOBER 9 Victoria eP 05 25 55</p> <p>OCTOBER 9 Mould Bay eP 06 41 (54)</p> <p>OCTOBER 9 71.4N, 73.3W Near East Coast of Baffin Island, NWT H = 08 00 31 MAG 3.6 Frobisher Pn taken as 0' 00" Sn - Pn 01' 22" Lg - Pn 02' 03" D = 820 km Resolute Lg 08 02 36 D = 829 km</p> <p>OCTOBER 9 Mould Bay eP 14 03 (29)</p> <p>OCTOBER 9 U.S.C.G.S. 27.7N, 138.5E South of Honshu, Japan H = 14 36 32.2 h 556 km MAG 4.2 (CGS) Mould Bay eP 14 46 (26)</p> <p>OCTOBER 9 Mould Bay eP 17 29 (30) i 17 29 41</p> <p>OCTOBER 9 Mould Bay eP 18 54 (38)</p>	<p>OCTOBER 9 Edmonton eP 22 47 39 (d) Mould Bay eP 22 46 (59)</p> <p>OCTOBER 10 Mould Bay eP 02 26 (59)</p> <p>OCTOBER 10 U.S.C.G.S. 47.6N, 127.1W Off Coast of Washington H = 03 15 15.0 h 33 km MAG 3.9 (CGS) Victoria iP 03 15 54 c</p> <p>OCTOBER 10 U.S.C.G.S. 46.0N, 153.7E Kurile Islands Region H = 10 15 17.4 h 45 km MAG 4.4 (CGS) Edmonton eP 10 24 55 Mould Bay eP 10 23 32</p> <p>OCTOBER 10 U.S.C.G.S. 12.4N, 144.0E Mariana Islands H = 16 49 52.0 h 35 km MAG 4.6 (CGS) Mould Bay iP 17 01 57</p>
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SEISMOLOGICAL BULLETIN - 1963

<p>OCTOBER 10 U.S.C.G.S. 52.5N, 176.3W Andreanof Islands Aleutian Islands H = 18 15 13.0 h 33 km MAG 4.5 (CGS) Mould Bay eP 18 21 38 d i 18 22 06</p> <p>OCTOBER 10 Mould Bay eP 20 31 11</p> <p>OCTOBER 10 Mould Bay eP 21 52 (26)</p> <p>OCTOBER 11 Mould Bay eP 10 01 10 c</p> <p>OCTOBER 11 U.S.C.G.S. 17.8N, 105.9W Off Coast of Jalisco, Mexico H = 10 17 07.6 h 33 km MAG 5.0 (CGS) Alert eP 10 28 00 Edmonton eP 10 24 (05) Mould Bay eP 10 27 (04) Ottawa eP 10 24 (18) Victoria eP 10 23 (50)</p>	<p>OCTOBER 11 U.S.C.G.S. 35.0N, 135.2E Southern Honshu, Japan H = 12 13 49.0 h 379 km MAG 3.9 (CGS) Mould Bay eP 12 23 18 c</p> <p>OCTOBER 11 Edmonton eP 14 03 (53) Mould Bay eP 14 07 32</p> <p>OCTOBER 11 Mould Bay eP 17 26 48 i 17 29 58</p> <p>OCTOBER 11 Mould Bay eP 18 12 (43)</p> <p>OCTOBER 11 Mould Bay eP 20 37 (37)</p> <p>OCTOBER 12 U.S.C.G.S. 71.6N, 73.0W Baffin Island H = 02 46 48.1 MAG 4.1 (CGS) 5.0 (DO) Alert Pn 02 49 28 Sn 02 51 28 Lg 02 52 08 D = 1300 km Frobisher Pn taken as 0' 00" Sn-Pn 01' 22" Lg-Pn 02' 03" D = 820 km Mould Bay Pn 02 49 56 c Sn 02 52 24 D = 1540 km</p>	<p>Resolute Pn 02 49 33 Sn 02 50 48 Lg 02 51 33 D = 829 km Yellowknife Pn 02 50 53 Sn 02 54 01 Lg 02 56 00 D = 1975 km</p> <p>OCTOBER 12 Mould Bay eP 05 34 (23)</p> <p>OCTOBER 12 Mould Bay eP 07 38 49</p> <p>OCTOBER 12 U.S.C.G.S. 44.8N, 149.0E Kurile Islands H = 11 26 57.9 h 40 km MAG 6 3/4 - 7 - (PAS)</p> <p>Alert eP 11 36 04 c</p> <p>Halifax iP 11 39 38 c</p> <p>London (i)P 11 39 14 c</p> <p>Mould Bay iP 11 35 30 c iS 11 42 22</p> <p>Ottawa eP 11 39 13 c</p> <p>Port Hardy eP 11 36 18</p> <p>Resolute eP 11 36 16 c</p> <p>Scarboro eP 11 39 16 c</p> <p>Seven Falls eP 11 39 14</p>
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DOMINION OBSERVATORIES

Shawinigan Falls
eP 11 39 15 c
Victoria
eP 11 36 41 (c)
Yellowknife
iP 11 36 22 c

OCTOBER 12
Mould Bay
eP 11 50 10 d
i 11 56 46

OCTOBER 12
U.S.C.G.S.
46.0N, 148.8E
Kurile Islands
H = 11 53 05.0
h 33 km
MAG -
Mould Bay
eP 12 01 (29)
Resolute
eP 12 02 16 d

OCTOBER 12
U.S.C.G.S.
44.4N, 149.6E
Kurile Islands
H = 12 02 18.8
h 40 km
MAG 4.5 (CGS)
Mould Bay
iP 12 10 52 d

OCTOBER 12
U.S.C.G.S.
44.7N, 149.6E
Kurile Islands
H = 12 32 35.8
h 40 km
MAG 4.6 (CGS)
Mould Bay
iP 12 41 08 d
Resolute
eP 12 41 54

OCTOBER 12
Mould Bay
eP 13 06 (21)

OCTOBER 12
U.S.C.G.S.
44.5N, 149.4E
Kurile Islands
H = 13 07 07.9
h 50 km
MAG 4.8 (CGS)
Mould Bay
eP 13 15 40 d
i 13 17 24
Resolute
eP 13 16 27
Yellowknife
eP 13 16 (30)

OCTOBER 12
U.S.C.G.S.
48.8N, 149.4E
Kurile Islands
H = 13 24 01.0
h 45 km
MAG 4.0 (CGS)
Mould Bay
eP 13 26 47
i 13 32 04
Resolute
eP 13 32 50 d

OCTOBER 12
U.S.C.G.S.
44.5N, 149.3E
Kurile Islands
H = 13 29 36.4
h 50 km
MAG 4.5 (CGS)
Mould Bay
eP 13 38 (10)
Resolute
eP 13 38 55

OCTOBER 12
U.S.C.G.S.
43.5N, 151.1E
Kurile Islands
H = 13 54 58.3
h 40 km
MAG 4.3 (CGS)
Mould Bay
eP 14 03 (38)
i 14 04 29
Resolute
eP 14 04 24

OCTOBER 12
U.S.C.G.S.
44.7N, 149.5E
Kurile Islands
H = 14 15 08.2
h 45 km
MAG 4.6 (CGS)
Mould Bay
eP 14 23 39 d
Resolute
eP 14 24 26

OCTOBER 12
U.S.C.G.S.
44.4N, 149.7E
Kurile Islands
H = 16 11 55.0
h 60 km
MAG 4.4 (CGS)
Mould Bay
eP 16 20 25 c
i 16 24 06
Resolute
eP 16 21 13

OCTOBER 12
U.S.C.G.S.
44.8N, 149.4E
Kurile Islands
H = 16 28 10.4
h 50 km
MAG 4.3 (CGS)
Mould Bay
iP 16 36 40 d
Resolute
eP 16 37 27 d

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 12
Mould Bay
eP 17 45 (47)

OCTOBER 12
U.S.C.G.S.
44.5N, 149.7E
Kurile Islands
H = 18 05 47.8
h 45 km
MAG 4.2 (CGS)
Mould Bay
iP 18 14 20 d
Resolute
eP 18 15 06

OCTOBER 12
U.S.C.G.S.
44.7N, 149.4E
Kurile Islands
H = 18 48 35.5
h 50 km
MAG 5.0 (CGS)
Resolute
eP 18 57 52
Mould Bay
eP 18 57 06

OCTOBER 12
U.S.C.G.S.
45.1N, 129.9W
Off Coast of Oregon
H = 19 10 20.5
h 33 km
MAG 4.2 (CGS)
Victoria
eP 19 11 44

OCTOBER 12
U.S.C.G.S.
44.3N, 149.4E
Kurile Islands
H = 19 46 52.9
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 19 55 26

OCTOBER 12
U.S.C.G.S.
44.6N, 149.4E
Kurile Islands
H = 19 57 00.2
h 50 km
MAG 4.4 (CGS)
Mould Bay
eP 20 05 32 d
Resolute
eP 20 06 18

OCTOBER 12
Mould Bay
eP 20 27 04

OCTOBER 12
U.S.C.G.S.
44.4N, 149.2E
Kurile Islands
H = 20 21 04.5
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 20 29 37
Resolute
eP 20 30 24

OCTOBER 12
Mould Bay
eP 20 58 (03)

OCTOBER 12
Mould Bay
eP 21 26 32 d
i 21 28 09
i 21 32 19

OCTOBER 12
Alert
eP 21 42 22

OCTOBER 12
U.S.C.G.S.
44.5N, 149.5E
Kurile Islands
H = 22 02 01.2
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 22 10 33 d
i 22 16 03
Resolute
eP 22 11 20

OCTOBER 12
U.S.C.G.S.
44.4N, 149.2E
Kurile Islands
H = 22 07 29.3
h 40 km
MAG 4.2 (CGS)
Resolute
eP 22 16 49

OCTOBER 12
Mould Bay
eP 23 10 (41)

OCTOBER 12
U.S.C.G.S.
44.3N, 149.2E
Kurile Islands
H = 23 40 11.1
h 40 km
MAG 4.3 (CGS)
Mould Bay
eP 23 48 44

OCTOBER 13
Mould Bay
eP 00 57 25

OCTOBER 13
Alert
eP 01 38 12

DOMINION OBSERVATORIES

OCTOBER 13
U.S.C.G.S.
44.4N, 149.3E
Kurile Islands
H = 01 26 34.3
h 33 km
MAG 4.4 (CGS)
Mould Bay
eP 01 35 09
Resolute
eP 01 35 55

OCTOBER 13
81.0N, 94.0W
North Coast of Axel
Heiberg Island, NWT
H = 01 37 01
MAG 4.0
Alert
Pn 01 38 11.5
i 01 38 59
Sn 01 39 04.5
Lg 01 39 31
D = 540 km
Mould Bay
Pn 01 38 43
Sn 01 39 59
D = 790 km
Resolute
Pn 01 38 35
Sn 01 39 43
D = 700 km

OCTOBER 13
U.S.C.G.S.
44.4N, 149.2E
Kurile Islands
H = 01 34 54.3
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 01 43 (29)
Resolute
eP 01 44 16

OCTOBER 13
Mould Bay
eP 02 18 (55)

OCTOBER 13
Mould Bay
eP 03 44 51 d

OCTOBER 13
Resolute
eP 03 45 37

OCTOBER 13
U.S.C.G.S.
44.4N, 149.2E
Kurile Islands
H = 04 05 50.1
h 30 km
MAG 4.4 (CGS)
Mould Bay
eP 04 14 25
Resolute
eP 04 15 12

OCTOBER 13
Resolute
eP 05 12 12 c

OCTOBER 13
U.S.C.G.S.
9.8N, 84.1W
Costa Rica
H = 05 10 12.5
h 63 km
MAG 4.4 (CGS)
Mould Bay
eP 05 21 12

OCTOBER 13
U.S.C.G.S.
44.8N, 149.5E
Kurile Islands
H = 05 17 57.1
h 60 km
MAG 8 1/4 (Pas)

Alert
eP 05 27 00
Halifax
iP 05 30 35 c
London
(i)P 05 30 09 (c)
Mould Bay
eP 05 26 25 c
Ottawa
eP 05 30 09
Scarboro
eP 05 30 11 c
Schefferville
eP 05 29 40 c
Seven Falls
eP 05 30 14
Shawinigan Falls
eP 05 30 (10)
Victoria
eP 05 27 34
Yellowknife
eP 05 27 17 (d)

OCTOBER 13
Alert
eP 05 45 44
Yellowknife
e 05 46 (00)

OCTOBER 13
Yellowknife
eP 05 50 15

OCTOBER 13
U.S.C.G.S.
45.9N, 151.9E
Kurile Islands
H = 06 05 29.5
h 55 km
MAG 5.5 (CGS)
Alert
eP 06 14 (26)
Yellowknife
eP 06 14 37

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 13
U.S.C.G.S.
45.3N, 151.3E
Kurile Islands
H = 06 09 02.2
h 60 km
MAG 5.6 (CGS)
Yellowknife
eP 06 18 12

OCTOBER 13
U.S.C.G.S.
45.4N, 150.8E
Kurile Islands
H = 06 23 38.2
h 40 km
MAG 5.2 (CGS)
Alert
eP 06 32 40
Scarborough
eP 06 35 (50)
Yellowknife
eP 06 32 55

OCTOBER 13
Alert
eP 06 50 49

OCTOBER 13
U.S.C.G.S.
45.5N, 151.8E
Kurile Islands
H = 06 48 26.3
h 55 km
MAG 5.2 (CGS)
Alert
eP 06 57 23

OCTOBER 13
Yellowknife
eP 06 56 (11)

OCTOBER 13
U.S.C.G.S.
45.5N, 150.6E
Kurile Islands
H = 07 03 23.8
h 50 km
MAG 5.6 (CGS)
Alert
eP 07 12 24
Mould Bay
eP 07 11 42 d
Ottawa
eP 07 15 31
Scarborough
eP 07 15 34
Schefferville
iP 07 15 04 c
Victoria
eP 07 12 57
Yellowknife
eP 07 12 38

OCTOBER 13
U.S.C.G.S.
45.5N, 151.5E
Kurile Islands
H = 07 16 42.9
h 55 km
MAG 4.9 (CGS)
Alert
eP 07 25 43
Mould Bay
eP 07 25 06

OCTOBER 13
U.S.C.G.S.
45.0N, 151.5E
Kurile Islands
H = 07 19 11.1
h 40 km
MAG 4.8 (CGS)
Alert
eP 07 28 15 (d)
Mould Bay
i 07 27 39

OCTOBER 13
U.S.C.G.S.
45.0N, 151.4E
Kurile Islands
H = 07 31 50.8
h 40 km
MAG 4.9 (CGS)
Alert
eP 07 40 55
Mould Bay
eP 07 40 (20)

OCTOBER 13
U.S.C.G.S.
46.5N, 151.8E
Kurile Islands
H = 07 35 44.7
h 45 km
MAG 4.6 (CGS)
Alert
eP 07 44 39
i 07 45 47
Mould Bay
i 07 44 02

OCTOBER 13
Mould Bay
iP 07 45 12

OCTOBER 13
Alert
eP 08 04 58

OCTOBER 13
Mould Bay
eP 08 07 26

OCTOBER 13
Resolute
eP 08 08 13 d

OCTOBER 13
Mould Bay
i 08 10 57

DOMINION OBSERVATORIES

OCTOBER 13
Resolute
eP 08 11 44 c

OCTOBER 13
Mould Bay
i 08 15 52

OCTOBER 13
U.S.C.G.S.
44.5N, 151.6E
Kurile Islands
H = 08 11 32.0
h 60 km
MAG 4.8 (CGS)
Alert
eP 08 20 37
Mould Bay
i 08 20 03

OCTOBER 13
U.S.C.G.S.
45.3N, 151.7E
Kurile Islands
H = 08 19 16.0
h 40 km
MAG 4.5 (CGS)
Alert
eP 08 28 18 (c)

OCTOBER 13
Resolute
eP 08 39 50

OCTOBER 13
Mould Bay
eP 08 42 57

OCTOBER 13
U.S.C.G.S.
45.2N, 149.9E
Kurile Islands
H = 08 37 11.4
h 50 km
MAG 4.5 (CGS)
Mould Bay
eP 08 45 37

OCTOBER 13
Mould Bay
i 08 48 06

OCTOBER 13
Mould Bay
eP 08 51 02

OCTOBER 13
Alert
eP 08 55 30

OCTOBER 13
Alert
eP 08 56 41

OCTOBER 13
U.S.C.G.S.
44.2N, 149.5E
Kurile Islands
H = 09 10 15.4
h 40 km
MAG 4.4 (CGS)
Resolute
eP 09 19 36

OCTOBER 13
Alert
eP 09 21 01

OCTOBER 13
U.S.C.G.S.
44.6N, 149.6E
Kurile Islands
H = 09 16 25.9
h 50 km
MAG 4.9 (CGS)
Alert
eP 09 25 31
Mould Bay
eP 09 24 57
Ottawa
eP 09 28 39
Resolute
eP 09 25 43
Schefferville
eP 09 28 11

Victoria
eP 09 26 19

OCTOBER 13
U.S.C.G.S.
44.9N, 151.0E
Kurile Islands
H = 09 22 44.6
h 50 km
MAG 5.0 (CGS)
Alert
i 09 31 48
Mould Bay
eP 09 31 11
Resolute
eP 09 31 58

OCTOBER 13
U.S.C.G.S.
44.1N, 150.0E
H = 09 44 51.6
h 45 km
MAG 4.5 (CGS)
Mould Bay
eP 09 53 25
Resolute
eP 09 54 12

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 13
Alert
eP 10 05 43 c

OCTOBER 13
U.S.C.G.S.
44.3N, 151.0E
Kurile Islands
H = 10 01 12.7
h 55 km
MAG 4.3 (CGS)
Alert
eP 10 10 18
Mould Bay
eP 10 09 (43)
Resolute
eP 10 10 31

OCTOBER 13
U.S.C.G.S.
44.2N, 150.2E
Kurile Islands
H = 10 06 23.8
h 45 km
MAG 4.5 (CGS)
Mould Bay
eP 10 14 57 d
i 10 19 01
Resolute
eP 10 15 44

OCTOBER 13
U.S.C.G.S.
44.5N, 149.6E
Kurile Islands
H = 10 10 28.2
h 45 km
MAG 4.7 (CGS)
Resolute
eP 10 19 48

OCTOBER 13
Alert
i 10 38 34
Resolute
eP 10 38 45

OCTOBER 13
U.S.C.G.S.
44.4N, 150.3E
Kurile Islands
H = 10 33 57.3
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 10 42 30
Resolute
eP 10 43 16

OCTOBER 13
U.S.C.G.S.
45.4N, 151.8E
Kurile Islands
H = 10 47 13.7
h 40 km
MAG 4.9 (CGS)
Alert
eP 10 56 14

OCTOBER 13
Mould Bay
eP 11 23 09

OCTOBER 13
U.S.C.G.S.
44.9N, 151.1E
Kurile Islands
H = 11 15 40.4
h 45 km
MAG 4.9 (CGS)
Alert
eP 11 24 43
Mould Bay
eP 11 24 06

OCTOBER 13
U.S.C.G.S.
44.9N, 150.7E
Kurile Islands
H = 11 22 58.6
h 55 km
MAG 4.8 (CGS)
Alert
eP 11 32 01

Mould Bay
eP 11 31 26
Resolute
eP 11 32 12

OCTOBER 13
Alert
eP 11 37 23

OCTOBER 13
U.S.C.G.S.
45.4N, 151.6E
Kurile Islands
H = 11 35 18.1
h 25 km
MAG 4.8 (CGS)
Alert
eP 11 44 19

OCTOBER 13
U.S.C.G.S.
44.3N, 149.3E
Kurile Islands
H = 11 38 56.9
h 25 km
MAG 4.3
Resolute
eP 11 48 20

OCTOBER 13
U.S.C.G.S.
44.7N, 151.3E
Kurile Islands
H = 11 57 20.3
h 50 km
MAG 4.3 (CGS)
Alert
eP 12 06 23

OCTOBER 13
Mould Bay
eP 12 14 (02)

DOMINION OBSERVATORIES

OCTOBER 13
U.S.C.G.S.
45.0N, 150.8E
Kurile Islands
H = 12 05 48.3
h 25 km
MAG 4.6 (CGS)
Alert
eP 12 14 55
Mould Bay
eP 12 14 18
Resolute
eP 12 15 05

OCTOBER 13
U.S.C.G.S.
44.8N, 149.6E
Kurile Islands
H = 12 20 46.9
h 45 km
MAG 4.3 (CGS)
Mould Bay
eP 12 29 18 d
Resolute
eP 12 30 04

OCTOBER 13
U.S.C.G.S.
45.9N, 151.8E
Kurile Islands
H = 12 29 39.2
h 30 km
MAG 5.0 (CGS)
Alert
eP 12 38 36
Mould Bay
eP 12 37 59 d
Resolute
eP 12 38 46

OCTOBER 13
U.S.C.G.S.
44.6N, 149.3E
Kurile Islands
H = 12 34 18.7
h 25 km
MAG 4.5 (CGS)
Mould Bay
eP 12 42 53
Resolute
eP 12 43 40

OCTOBER 13
U.S.C.G.S.
45.6N, 150.5E
Kurile Islands
H = 12 40 44.2
h 45 km
MAG 4.6 (CGS)
Alert
eP 12 49 41 c

OCTOBER 13
U.S.C.G.S.
44.4N, 149.4E
Kurile Islands
H = 12 42 13.0
h 55 km
MAG 5.2 (CGS)
Alert
eP 12 51 20
Mould Bay
eP 12 50 45
Resolute
eP 12 51 31
Schefferville
eP 12 53 59 d
Yellowknife
eP 12 51 36

OCTOBER 13
U.S.C.G.S.
44.6N, 149.3E
Kurile Islands
H = 12 53 56.9
h 25 km
MAG 4.6 (CGS)
Mould Bay
iP 13 02 32 d
Resolute
eP 13 03 18

OCTOBER 13
U.S.C.G.S.
45.0N, 150.1E
Kurile Islands
H = 12 58 21.6
h 50 km
MAG 5.4 (CGS)
Alert
eP 13 07 24 c
Mould Bay
eP 13 06 49
Ottawa
eP 13 10 32
Port Hardy
eP 13 07 34
Resolute
eP 13 07 36
Scarborough
eP 13 10 35
Schefferville
eP 13 10 05 d
Seven Falls
e 13 10 (47)
Victoria
eP 13 07 58
Yellowknife
eP 13 07 41

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 13
U.S.C.G.S.
46.3N, 151.3E
Kurile Islands
H = 13 05 04
h 33 km
MAG 4.8 (CGS)
Alert
i 13 14 02

OCTOBER 13
U.S.C.G.S.
44.5N, 149.3E
Kurile Islands
H = 13 21 00.3
h 60 km
MAG 4.5 (CGS)
Mould Bay
eP 13 29 31
Resolute
eP 13 30 18
Yellowknife
eP 13 30 22

OCTOBER 13
Alert
eP 13 43 05

OCTOBER 13
U.S.C.G.S.
44.9N, 150.4E
Kurile Islands
H = 13 36 53.3
h 50 km
MAG 4.4 (CGS)
Alert
eP 13 45 56
Mould Bay
eP 13 45 20

OCTOBER 13
U.S.C.G.S.
44.5N, 149.8E
Kurile Islands
H = 13 41 44.8
h 50 km
MAG 4.3 (CGS)

Mould Bay
eP 13 50 17
Resolute
eP 13 51 03

OCTOBER 13
U.S.C.G.S.
44.4N, 151.2E
Kurile Islands
H = 13 43 25.3
h 50 km
MAG 4.8 (CGS)
Alert
eP 13 52 (29)
Mould Bay
eP 13 51 54

OCTOBER 13
U.S.C.G.S.
44.3N, 149.9E
Kurile Islands
H = 13 53 08.1
h 40 km
MAG 4.2 (CGS)
Mould Bay
eP 14 01 42
Resolute
eP 14 02 29

OCTOBER 13
U.S.C.G.S.
44.9N, 151.7E
Kurile Islands
H = 13 54 24.8
h 50 km
MAG 4.8 (CGS)
Alert
eP 14 03 23

OCTOBER 13
U.S.C.G.S.
45.3N, 151.0E
Kurile Islands
H = 14 03 56.3
h 25 km
MAG 4.8 (CGS)
Mould Bay
eP 14 12 23

OCTOBER 13
U.S.C.G.S.
44.5N, 149.5E
Kurile Islands
H = 14 26 11.9
h 50 km
MAG 5.1 (CGS)
Alert
eP 14 35 (18)
Mould Bay
iP 14 34 45 d
Resolute
eP 14 35 28

OCTOBER 13
U.S.C.G.S.
17.6N, 100.8W
Near Coast of Guerrero,
Mexico
H = 14 50 20.0
h 88 km
MAG 4.0 (CGS)
Mould Bay
iP 15 00 17 d

OCTOBER 13
U.S.C.G.S.
47.0N, 149.5E
Kurile Islands
H = 15 50 09.0
h 45 km
MAG 4.1 (CGS)
Alert
eP 15 58 57

DOMINION OBSERVATORIES

OCTOBER 13 Mould Bay eP 16 02 (09)	OCTOBER 13 U.S.C.G.S. 44.9N, 150.3E Kurile Islands H = 16 28 58.2 h 40 km MAG 5.2 (CGS) Alert eP 16 38 01 Mould Bay eP 16 37 26 d Resolute eP 16 38 13 Schefferville eP 16 40 42 Victoria eP 16 38 36 Yellowknife eP 16 38 18	OCTOBER 13 Alert eP 17 19 48
OCTOBER 13 U.S.C.G.S. 45.6N, 150.5E Kurile Islands H = 15 59 52.9 h 35 km MAG 6.1 (CGS) Alert iP 16 08 54 c Halifax iP 16 12 28 c London iP 16 12 03 c Mould Bay iP 16 08 17 c Ottawa eP 16 12 02 (c) Resolute iP 16 09 04 c Scarborough iP 16 12 04 c Schefferville iP 16 11 33 c Seven Falls eP 16 12 04 d Victoria eP 16 09 27 c Yellowknife eP 16 09 08 (c)	OCTOBER 13 U.S.C.G.S. 18.4N, 103.1W Near Coast of Michoacan, Mexico H = 16 45 18.8 h 50 km MAG 4.8 (CGS) Alert eP 16 56 00 (c) Mould Bay eP 16 55 10 Ottawa eP 16 52 08	OCTOBER 13 U.S.C.G.S. 44.4N, 151.6E Kurile Islands H = 17 17 18.5 h 60 km MAG 4.7 (CGS) Mould Bay eP 17 25 48
OCTOBER 13 U.S.C.G.S. 45.1N, 150.8E Kurile Islands H = 16 12 33.2 h 30 km MAG 4.8 (CGS) Resolute eP 16 21 48	OCTOBER 13 U.S.C.G.S. 44.5N, 150.4E Kurile Islands H = 16 49 41.2 h 40 km MAG 4.5 (CGS) Resolute eP 16 58 59	OCTOBER 13 U.S.C.G.S. 44.3N, 149.2E Kurile Islands H = 17 31 18.7 h 45 km MAG 4.7 (CGS) Mould Bay eP 17 39 53 Resolute eP 17 40 39
		OCTOBER 13 Resolute eP 17 48 51

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 13 Mould Bay eP 18 16 08	Schefferville eP 18 26 38	OCTOBER 13 U.S.C.G.S. 45.7N, 151.7E Kurile Islands H = 19 27 38.2 h 45 km MAG 5.5 (CGS) Alert eP 19 36 35 (d) Edmonton eP 19 37 26 (d) Schefferville eP 19 39 15 Victoria eP 19 37 06 Yellowknife eP 19 36 47
OCTOBER 13 U.S.C.G.S. 44.0N, 150.0E Kurile Islands H = 18 10 55.2 h 45 km MAG 4.7 (CGS) Alert i 18 20 05 Edmonton eP 18 20 (56) Resolute eP 18 20 16	OCTOBER 13 U.S.C.G.S. 47.8N, 148.1E Kurile Islands H = 18 34 48.0 h 33 km MAG 4.5 (CGS) Mould Bay eP 18 43 02 Resolute eP 18 43 48	OCTOBER 13 Mould Bay eP 18 54 05
OCTOBER 13 U.S.C.G.S. 44.2N, 149.4E Kurile Islands H = 18 13 44.6 h 55 km MAG 4.7 (CGS) Alert eP 18 22 53 Edmonton eP 18 23 46 Victoria eP 18 23 37	OCTOBER 13 U.S.C.G.S. 44.2N, 149.7E Kurile Islands H = 19 11 20.5 h 25 km MAG 4.6 (CGS) Mould Bay eP 19 19 57	OCTOBER 13 Mould Bay eP 19 47 35
OCTOBER 13 U.S.C.G.S. 45.2N, 150.8E Kurile Islands H = 18 14 57.5 h 45 km MAG 5.2 (CGS) Alert eP 18 24 00 Edmonton eP 18 24 51 Ottawa eP 18 27 07	OCTOBER 13 U.S.C.G.S. 45.7N, 151.5E Kurile Islands H = 19 26 04.2 h 30 km MAG 4.6 (CGS) Alert eP 19 35 03 Edmonton eP 19 35 55 Mould Bay eP 19 34 26 Resolute eP 19 35 14	OCTOBER 13 U.S.C.G.S. 45.3N, 151.4E Kurile Islands H = 19 41 20.5 h 45 km MAG 4.9 (CGS) Alert eP 19 50 20 c Mould Bay eP 19 49 43
		OCTOBER 13 U.S.C.G.S. 44.5N, 150.9E Kurile Islands H = 19 54 55.7 h 35 km MAG 4.2 (CGS) Resolute eP 20 04 13

DOMINION OBSERVATORIES

OCTOBER 13
 U.S.C.G.S.
 44.4N, 151.4E
 Kurile Islands
 H = 20 14 07.7
 h 25 km
 MAG 4.5 (CGS)
 Mould Bay
 eP 20 22 41 d

OCTOBER 13
 U.S.C.G.S.
 45.6N, 151.7E
 Kurile Islands
 H = 20 27 38.2
 h 30 km
 MAG 4.8 (CGS)
 Alert
 eP 20 36 38 (d)
 Edmonton
 eP 20 37 29 d
 Mould Bay
 eP 20 36 00
 Resolute
 eP 20 36 47

OCTOBER 13
 Alert
 eP 20 44 38 c

OCTOBER 13
 Mould Bay
 eP 20 47 09
 Edmonton
 eP 21 45 (27)

OCTOBER 13
 U.S.C.G.S.
 45.3N, 151.7E
 Kurile Islands
 H = 21 35 37.3
 h 45 km
 MAG 4.7 (CGS)
 Mould Bay
 eP 21 44 (02)

OCTOBER 13
 U.S.C.G.S.
 44.3N, 149.5E
 Kurile Islands
 H = 21 48 01.5
 h 50 km
 MAG 4.3 (CGS)
 Mould Bay
 eP 21 56 34 d
 Resolute
 eP 21 57 21

OCTOBER 13
 U.S.C.G.S.
 46.1N, 151.8E
 Kurile Islands
 H = 21 50 02.4
 h 45 km
 MAG 4.5 (CGS)
 Edmonton
 eP 21 59 48

OCTOBER 13
 U.S.C.G.S.
 44.7N, 152.1E
 Kurile Islands
 H = 21 55 00.8
 h 50 km
 MAG 5.5 (CGS)
 Alert
 eP 22 04 05 (d)
 Edmonton
 iP 22 04 52 d
 Mould Bay
 iP 22 03 27 d
 Ottawa
 eP 22 07 08 d
 Resolute
 eP 22 04 14 d
 Schefferville
 eP 22 06 41 d
 Victoria
 eP 22 04 30 d
 Yellowknife
 iP 22 04 15 c

OCTOBER 13
 U.S.C.G.S.
 45.1N, 150.9E
 Kurile Islands
 H = 22 02 58.1
 h 45 km
 MAG 4.9 (CGS)
 Alert
 iP 22 12 01
 Edmonton
 eP 22 12 52 c
 Mould Bay
 eP 22 11 24
 Resolute
 eP 22 12 11 d

OCTOBER 13
 U.S.C.G.S.
 44.2N, 149.3E
 Kurile Islands
 H = 22 25 37.0
 h 45 km
 MAG 4.4 (CGS)
 Mould Bay
 eP 22 34 11
 Resolute
 eP 22 34 58

OCTOBER 13
 U.S.C.G.S.
 44.3N, 149.5E
 Kurile Islands
 H = 22 29 48.6
 h 40 km
 MAG 4.8 (CGS)
 Mould Bay
 eP 22 38 24

OCTOBER 13
 U.S.C.G.S.
 45.5N, 151.8E
 Kurile Islands
 H = 23 05 33.5
 h 30 km
 MAG 4.6 (CGS)
 Edmonton
 eP 23 15 (23)

SEISMOLOGICAL BULLETIN - 1963



OCTOBER 13
 U.S.C.G.S.
 44.4N, 153.0E
 Kurile Islands
 H = 23 25 00.8
 h 50 km
 MAG 4.7 (CGS)
 Alert
 eP 23 34 00
 Edmonton
 eP 23 34 48

OCTOBER 13
 U.S.C.G.S.
 44.5N, 150.1E
 Kurile Islands
 H = 23 52 22.8
 h 50 km
 MAG 5.5 (CGS)
 Alert
 eP 24 01 30
 Edmonton
 eP 24 02 21
 Mould Bay
 eP 24 00 54
 Resolute
 eP 24 01 41
 Victoria
 eP 24 01 56
 Yellowknife
 eP 24 01 43

OCTOBER 14
 U.S.C.G.S.
 45.0N, 150.9E
 Kurile Islands
 H = 00 03 04.1
 h 60 km
 MAG 4.7 (CGS)
 Alert
 eP 00 12 05 (c)
 Edmonton
 eP 00 12 55
 London
 (iP) 00 15 27 (c)

Mould Bay
 eP 00 11 (29)
 Resolute
 eP 00 12 (17)

OCTOBER 14
 Edmonton
 (eP) 00 14 34 d

OCTOBER 14
 U.S.C.G.S.
 Kurile Islands
 H = 00 19 17.9
 h 45 km
 MAG 4.4 (CGS)
 Mould Bay
 eP 00 27 49

OCTOBER 14
 U.S.C.G.S.
 46.6N, 150.6E
 Kurile Islands
 H = 00 52 04.0
 h 35 km
 MAG 4.5 (CGS)
 Alert
 eP 01 00 57

OCTOBER 14
 Alert
 eP 01 02 23 d

OCTOBER 14
 U.S.C.G.S.
 44.3N, 151.2E
 Kurile Islands
 H = 01 19 17.1
 h 55 km
 MAG 4.4 (CGS)
 Alert
 i 01 28 23
 Mould Bay
 eP 01 27 46
 Resolute
 eP 01 28 (33)

OCTOBER 14
 U.S.C.G.S.
 44.4N, 149.8E
 Kurile Islands
 H = 01 35 50.8
 h 50 km
 MAG 4.2 (CGS)
 Mould Bay
 eP 01 44 23 (c)
 Resolute
 eP 01 45 (09)

OCTOBER 14
 Mould Bay
 eP 02 02 36
 Resolute
 eP 02 03 (22)

OCTOBER 14
 U.S.C.G.S.
 25.2N, 95.3E
 Eastern India
 H = 02 01 24.0
 h 33 km
 MAG 5.3 (CGS)
 Mould Bay
 eP 02 13 12 c

OCTOBER 14
 U.S.C.G.S.
 44.9N, 151.8E
 Kurile Islands
 H = 03 21 56.1
 h 50 km
 MAG 4.2 (CGS)
 Alert
 eP 03 30 58

OCTOBER 14
 Alert
 eP 03 39 (47)

DOMINION OBSERVATORIES - 1963

<p>OCTOBER 14 U.S.C.G.S. 45.9N, 151.8E Kurile Islands H = 03 31 07.8 h 25 km MAG 5.0 (CGS) Alert i 03 40 06 Edmonton eP 03 40 57 c Mould Bay eP 03 39 29 Resolute eP 03 40 15 d Yellowknife eP 03 40 18</p> <p>OCTOBER 14 U.S.C.G.S. 44.7N, 149.8E Kurile Islands H = 03 52 56.3 h 50 km MAG 4.1 (CGS) Mould Bay eP 04 01 (28) Resolute eP 04 02 13</p> <p>OCTOBER 14 71.4N, 73.3W Near East Coast of Baffin Island, NWT H = 04 03 47 MAG 4.1 Frobisher Lg - Sn 41 sec. D = 820 km Resolute Lg 04 03 47 D = 829 km</p>	<p>OCTOBER 14 U.S.C.G.S. 44.9N, 150.2E Kurile Islands H = 04 06 01.7 h 50 km MAG 5.3 (CGS) Alert eP 04 15 05 c Edmonton eP 04 15 58 (c) London iP 04 18 14 c Mould Bay eP 04 14 30 Ottawa eP 04 18 13 c Resolute eP 04 15 16 Scarborough eP 04 18 15 Schefferville eP 04 17 45 (d) Victoria eP 04 15 38 Yellowknife eP 04 15 18</p> <p>OCTOBER 14 U.S.C.G.S. 44.7N, 150.6E Kurile Islands H = 04 11 14.0 h 45 km MAG 5.3 (CGS) Alert eP 04 20 19 c Edmonton eP 04 21 11 c Mould Bay eP 04 19 43 Ottawa eP 04 23 26 Resolute eP 04 20 30</p>	<p>Yellowknife eP 04 20 32</p> <p>OCTOBER 14 U.S.C.G.S. 44.9N, 150.7E Kurile Islands H = 04 13 03.1 h 40 km MAG 5.2 (CGS) Mould Bay eP 04 21 33 Yellowknife eP 04 22 20</p> <p>OCTOBER 14 U.S.C.G.S. 44.5N, 151.0E Kurile Islands H = 05 24 12.3 h 55 km MAG 4.9 (CGS) Alert eP 05 33 17 Edmonton eP 05 34 08 Mould Bay eP 05 32 (41) Resolute eP 05 33 28 Schefferville eP 05 35 55</p> <p>OCTOBER 14 48.7N, 124.6W Southern Vancouver Island H = 05 35 43 MAG 2.0 Alberni iP 05 35 53.8 D = 64 km Victoria eP 05 35 58.0 D = 91 km</p>
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SEISMOLOGICAL BULLETIN - 1963

<p>OCTOBER 14 U.S.C.G.S. 2.3S, 77.6W Peru - Ecuador Border H = 05 39 17.1 Alert eP 05 51 51 Edmonton eP 05 49 41 Mould Bay eP 05 51 35 Yellowknife eP 05 50 27</p> <p>OCTOBER 14 U.S.C.G.S. 44.8N, 150.6E Kurile Islands H = 05 42 55.3 h 50 km MAG 4.5 (CGS) Mould Bay eP 05 51 23</p> <p>OCTOBER 14 Mould Bay eP 06 22 (13)</p> <p>OCTOBER 14 Alert eP 06 33 47</p> <p>OCTOBER 14 U.S.C.G.S. 52.8N, 167.1W Fox Islands Aleutian Islands H = 06 26 11.7 h 80 km MAG 5.1 (CGS) Edmonton eP 06 32 31 d Mould Bay iP 06 32 18 c Resolute eP 06 33 (06)</p>	<p>Schefferville eP 06 35 34 Yellowknife iP 06 32 03 d</p> <p>OCTOBER 14 U.S.C.G.S. 44.1N, 149.4E Kurile Islands H = 06 29 01.5 h 35 km MAG 4.4 (CGS) Edmonton eP 06 39 06 Mould Bay eP 06 37 37 Resolute eP 06 38 (23)</p> <p>OCTOBER 14 U.S.C.G.S. 44.6N, 150.3E Kurile Islands H = 07 15 58.0 h 45 km MAG 4.9 (CGS) Alert eP 07 25 04 Edmonton eP 07 25 56 (c) Mould Bay eP 07 24 30 (c) Resolute eP 07 25 15 Yellowknife eP 07 25 18</p> <p>OCTOBER 14 U.S.C.G.S. 45.3N, 151.0E Kurile Islands H = 07 53 42.7 h 35 km MAG 4.1 (CGS) Mould Bay eP 08 02 08</p>	<p>OCTOBER 14 U.S.C.G.S. 44.8N, 151.2E Kurile Islands H = 07 54 33.9 h 55 km MAG 5.1 (CGS) Alert eP 08 03 39 d Mould Bay eP 08 03 02 Resolute eP 08 03 47 Schefferville eP 08 06 15 d</p> <p>OCTOBER 14 Mould Bay eP 08 45 56</p> <p>OCTOBER 14 U.S.C.G.S. 44.7N, 150.7E Kurile Islands H = 08 43 56.6 h 50 km MAG 4.3 (CGS) Mould Bay eP 08 52 24 Resolute eP 08 53 (12)</p> <p>OCTOBER 14 Mould Bay eP 09 18 (32) Resolute eP 09 19 (18)</p> <p>OCTOBER 14 Mould Bay eP 09 33 31</p>
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DOMINION OBSERVATORIES

OCTOBER 14
U.S.C.G.S.
45.5N, 151.7E
Kurile Islands
H = 09 29 07.1
h 40 km
MAG 4.6 (CGS)
Alert
eP 09 38 07
Edmonton
eP 09 38 57

OCTOBER 14
Resolute
eP 10 02 (23)

OCTOBER 14
Yellowknife
e 10 09 (47)

OCTOBER 14
U.S.C.G.S.
45.1N, 150.8E
Kurile Islands
H = 10 01 27.2
h 45 km
MAG 4.2 (CGS)
Edmonton
eP 10 11 21 (c)

OCTOBER 14
71.4N, 73.3W
Near Coast of
Baffin Island, NWT
H = 10 15 36
MAG 4.2
Frobisher
Pn taken as 0' 00"
Sn - Pn 1' 22"
Lg - Pn 2' 03"
D = 820 km
Resolute
Pn 10 17 22
Sn 10 18 35
Lg 10 19 23
D = 829 km

OCTOBER 14
Mould Bay
eP 11 12 38 d

OCTOBER 14
U.S.C.G.S.
45.0N, 150.9E
Kurile Islands
H = 11 13 19.4
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 11 21 (44)

OCTOBER 14
U.S.C.G.S.
45.5N, 151.7E
Kurile Islands
H = 11 23 13.5
h 50 km
MAG 4.3 (CGS)
Edmonton
eP 11 33 02

OCTOBER 14
Mould Bay
eP 11 53 (14)

OCTOBER 14
U.S.C.G.S.
45.4N, 150.9E
Kurile Islands
H = 11 56 31.0
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 12 04 54

OCTOBER 14
U.S.C.G.S.
45.6N, 152.4E
Kurile Islands
H = 12 11 42.5
h 40 km
MAG 4.5 (CGS)
Mould Bay
eP 12 20 (03)

OCTOBER 14
Mould Bay
eP 12 45 58 (d)

OCTOBER 14
U.S.C.G.S.
44.7N, 150.2E
Kurile Islands
H = 12 44 54.1
h 50 km
MAG 4.3 (CGS)
Edmonton
eP 12 54 52
Mould Bay
eP 12 53 24 (d)

OCTOBER 14
U.S.C.G.S.
44.8N, 151.0E
Kurile Islands
H = 13 21 45.2
h 60 km
MAG 5.9 (CGS)
Alert
iP 13 30 48 c
Edmonton
eP 13 31 38 d
Halifax
eP 13 34 21 (c)
London
eP 13 33 54
Mould Bay
eP 13 30 12
Ottawa
eP 13 33 53 d
Scarboro
eP 13 33 56
Schefferville
eP 13 33 25 (d)
Seven Falls
eP 13 33 55
Shawinigan Falls
eP 13 33 55 d
Victoria
eP 13 31 17 (d)
Yellowknife
eP 13 30 58

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 14
U.S.C.G.S.
45.0N, 151.1E
Kurile Islands
H = 13 53 17.4
h 30 km
MAG 4.8 (CGS)
Edmonton
eP 14 03 13
Resolute
eP 14 02 (31)

OCTOBER 14
Mould Bay
eP 14 54 (44)

OCTOBER 14
Mould Bay
eP 15 30 45
Resolute
eP 15 31 32

OCTOBER 14
Mould Bay
eP 15 53 (14)

OCTOBER 14
Mould Bay
eP 16 20 (02)

OCTOBER 14
Mould Bay
eP 17 21 20

OCTOBER 14
U.S.C.G.S.
45.2N, 151.3E
Kurile Islands
H = 17 59 15.3
h 60 km
MAG 5.0 (CGS)
Alert
iP 17 59 15
Edmonton
eP 18 00 06 (d)

Mould Bay
eP 17 58 38
Resolute
eP 17 59 25 d
Schefferville
eP 18 01 53
Yellowknife
eP 17 59 27

OCTOBER 14
U.S.C.G.S.
45.0N, 151.3E
Kurile Islands
H = 17 56 17.8
h 30 km
MAG 4.5 (CGS)
Mould Bay
eP 18 04 (45)

OCTOBER 14
Mould Bay
eP 18 09 24 (d)

OCTOBER 14
Resolute
eP 21 02 13

OCTOBER 14
U.S.C.G.S.
45.0N, 150.5E
Kurile Islands
H = 21 08 00.1
h 45 km
MAG 5.1 (CGS)
Alert
eP 21 17 02
Edmonton
eP 21 17 (55)
Mould Bay
eP 21 16 26
Schefferville
eP 21 19 41
Yellowknife
eP 21 17 16 c

OCTOBER 14
Mould Bay
iP 21 23 15 d

OCTOBER 14
Yellowknife
iP 21 24 37

OCTOBER 14
U.S.C.G.S.
44.3N, 149.3E
Kurile Islands
H = 21 19 54.7
h 45 km
MAG 4.7 (CGS)
Edmonton
eP 21 29 (57)
Resolute
eP 21 29 15
Yellowknife
eP 21 29 19

OCTOBER 14
U.S.C.G.S.
44.5N, 149.2E
Kurile Islands
H = 21 43 46.7
h 60 km
MAG 4.1 (CGS)
Mould Bay
eP 21 52 18
Resolute
eP 21 53 05

OCTOBER 14
U.S.C.G.S.
44.5N, 150.6E
Kurile Islands
H = 22 35 31.7
h 45 km
MAG 5.0 (CGS)
Alert
eP 22 44 38
Edmonton
eP 22 45 29

DOMINION OBSERVATORIES

Mould Bay
eP 22 44 03 d
Yellowknife
eP 22 44 51

OCTOBER 14
U.S.C.G.S.
39.5N, 74.4E
Sinkiang Province,
China
H = 23 05 16.0
h 69 km
Mould Bay
eP 23 15 45 d

OCTOBER 15
U.S.C.G.S.
45.0N, 151.8E
Kurile Islands
H = 00 38 53.0
h 45 km
MAG 4.3 (CGS)
Mould Bay
eP 00 47 17
i 00 51 17

OCTOBER 15
U.S.C.G.S.
45.1N, 150.9E
Kurile Islands
H = 00 42 52.4
h 45 km
MAG 4.2 (CGS)
Alert
eP 00 51 54

OCTOBER 15
Alert
iP 00 58 59

OCTOBER 15
Mould Bay
eP 00 56 (12)

OCTOBER 15
Resolute
eP 00 58 (37)

OCTOBER 15
Mould Bay
eP 03 24 43

OCTOBER 15
U.S.C.G.S.
48.9N, 151.7E
Kurile Islands
H = 04 33 44.0
h 33 km
MAG 4.2 (CGS)
Mould Bay
eP 04 41 41

OCTOBER 15
U.S.C.G.S.
44.5N, 149.6E
Kurile Islands
H = 04 56 26.6
h 50 km
MAG 4.5 (CGS)
Edmonton
eP 05 06 26 (c)
Mould Bay
eP 05 04 58
Resolute
eP 05 05 45 d

OCTOBER 15
Mould Bay
eP 05 16 (05)
Resolute
eP 05 16 (51)

OCTOBER 15
U.S.C.G.S.
44.3N, 151.4E
Kurile Islands
H = 05 10 34.2
h 45 km
MAG 4.2 (CGS)
Mould Bay
eP 05 19 04 (d)

Resolute
eP 05 19 (50)

OCTOBER 15
Resolute
eP 05 45 (49)

OCTOBER 15
Resolute
eP 06 58 56

OCTOBER 15
U.S.C.G.S.
60.1N, 134.7W
Yukon
H = 07 26 10.8
h 33 km
MAG 4.3 (CGS)
Edmonton
eP 07 29 29 d
Mould Bay
eP 07 30 23
(S) 31 34
Port Hardy
eP 07 31 11
Resolute
eP 07 31 03

OCTOBER 15
Victoria
eP 07 31 50

OCTOBER 15
U.S.C.G.S.
45.0N, 151.1E
Kurile Islands
H = 08 00 11.5
h 40 km
MAG 4.9 (CGS)
Alert
eP 08 09 15 (c)
Edmonton
eP 08 10 (05)
Mould Bay
eP 08 08 38

SEISMOLOGICAL BULLETIN - 1963

Ottawa
eP 08 12 22
Resolute
eP 08 09 (24)
Schefferville
eP 08 11 54

OCTOBER 15
U.S.C.G.S.
45.3N, 150.2E
Kurile Islands
H = 09 02 08.3
h 40 km
MAG 5.4 (CGS)
Edmonton
eP 09 12 04 d
London
(eP) 09 14 20
Mould Bay
eP 09 10 34 d
Ottawa
eP 09 14 19
Resolute
eP 09 11 20
Schefferville
eP 09 13 50 (c)

OCTOBER 15
U.S.C.G.S.
44.3N, 149.5E
Kurile Islands
H = 09 14 34.3
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 09 23 09

OCTOBER 15
U.S.C.G.S.
45.2N, 150.2E
Kurile Islands
H = 09 32 08.7
h 40 km
MAG 5.5 (CGS)
Edmonton
eP 09 42 05 d

London
iP 09 44 21
Mould Bay
iP 09 40 35 d
Ottawa
eP 09 44 20
Resolute
eP 09 41 22 d
Scarborough
eP 09 44 22
Schefferville
iP 09 43 51 d
Victoria
eP 09 41 45 (d)

OCTOBER 15
U.S.C.G.S.
67.2N, 18.4W
North of Iceland
H = 09 59 30.1
h 33 km
MAG 5.2 (CGS)
Alert
eP 10 03 38 (d)
Edmonton
eP 10 07 38 c
Mould Bay
eP 10 05 (29)
Ottawa
eP 10 06 34
Resolute
eP 10 04 (47)
Schefferville
eP 10 04 57

OCTOBER 15
Mould Bay
eP 10 38 58 (d)

OCTOBER 15
Alert
eP 10 55 (53)

OCTOBER 15
U.S.C.G.S.
44.6N, 149.0E
Kurile Islands
H = 10 47 12.6
h 50 km
MAG 5.4 (CGS)
Alert
eP 10 56 18
Edmonton
eP 10 57 (14)
London
iP 10 59 29 c
Mould Bay
eP 10 55 46
Ottawa
eP 10 59 27
Resolute
eP 10 56 31
Schefferville
eP 10 58 59 c
Victoria
iP 10 56 55 c

OCTOBER 15
Mould Bay
eP 11 21 (49)

OCTOBER 15
Mould Bay
eP 11 32 46 c

OCTOBER 15
U.S.C.G.S.
45.1N, 151.9E
Kurile Islands
H = 11 53 45.5
h 55 km
MAG 4.8 (CGS)
Alert
eP 12 02 46 c
Edmonton
eP 12 03 34 d
Mould Bay
eP 12 02 (08)
Resolute
eP 12 02 (57)



DOMINION OBSERVATORIES

OCTOBER 15
U.S.C.G.S.
45.1N, 151.8E
Kurile Islands
H = 12 03 48.7
h 45 km
MAG 4.7 (CGS)
Alert
eP 12 12 50 c
Edmonton
eP 12 13 39 c
Mould Bay
eP 12 12 12
Resolute
eP 12 13 01

OCTOBER 15
46°10'N, 77°35'W
About 10 miles from
Deep River, Ontario
H = 12 07 50.6
h 15 km
MAG 3.0
London
Sn 12 09 39
Lg 12 09 57
D = 450 km
Ottawa
Pn 12 08 16.6
P₁ 12 08 20
Sn 12 08 38
S₁ 12 08 42.5
D = 175 km
Sept-Iles
Sn 12 11 13
Lg 12 12 03
D = 918 km
Seven Falls
e 12 09 52
Lg 12 10 07
D = 528 km

OCTOBER 15
46°10'N, 77°35'W
About 10 miles from
Deep River, Ontario
H = 12 29 02
h 14 km
MAG 4.4
Frobisher
Lg - Sn 117 seconds
D = 2000 km
London
Pn 12 30 03.6
i 12 30 12
(P₁) 12 30 13.8
Sn 12 30 51
S₁ 12 31 08.7
D = 450 km
Montreal
Pn 12 29 45
P₁ 12 29 51.4
i 12 29 54
Sn 12 30 19
S₁ 12 30 29
D = 310 km
Ottawa
Pn 12 29 28.0
P₁ 12 29 32.2
Sn 12 29 50
D = 175 km
Schefferville
Pn 12 31 32
Sn 12 33 25
Lg 12 34 30
D = 1230 km
Sept-Iles
Pn 12 30 56
Sn 12 32 22
Lg 12 33 12
D = 918 km
Seven Falls
Pn 12 30 07
Sn 12 30 59
D = 528 km
Shawinigan Falls
Pn 12 29 55
Sn 12 30 31
D = 373 km

OCTOBER 15
Mould Bay
eP 13 50 14

OCTOBER 15
46°10'N, 77°35'W
About 10 miles from
Deep River, Ontario
H = 13 59 53
h 14 km
MAG 3.8 (CGS)
4.5 (DO)
Frobisher
Lg - Sn 117 second
D = 2000 km

London
Pn 14 00 55
P₁ 14 01 05
Sn 14 01 42
S₁ 14 02 59.5
D = 450 km
Ottawa
Pn 14 00 18.0
P₁ 14 00 23.2
Sn 14 00 (41)
D = 175 km
Montreal
Pn 14 00 36
P₁ 14 00 42.4
i 14 00 45
Sn 14 01 (10)
S₁ 14 01 20
D = 310 km

Schefferville
Pn 14 02 24
Sn 14 04 17
Lg 14 05 24
D = 1230 km
Sept-Iles
Pn 14 01 46
Sn 14 03 13
Lg 14 04 02
D = 918 km

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Seven Falls
Pn 14 00 57
(Sn) 14 01 50
(Lg) 14 02 06
D = 528 km
Shawinigan Falls
Pn 14 00 46
S₁ 14 01 18
D = 273 km

OCTOBER 15
Resolute
eP 14 15 (09)

OCTOBER 16
U.S.C.G.S.
42.4°N, 70.7°W
North Coast of
Massachussetts
H = 15 31 00.7
h 25 km
MAG 4.2 (PAL)
4.7 (OTT)

Halifax
Pn 15 32 20
Sn 15 33 18
S₁ 15 33 51
D = 625 km
London
e 15 33 15
(Sn) 15 34 04.0
S₁ 15 35 04
D = 875 km

Montreal
Pn 15 31 58
P₁ 15 32 07.4
Sn 15 32 34
S₁ 15 32 44.5
D = 416 km
Ottawa
e 15 32 20
P₁ 15 32 23
Sn 15 33 05
S₁ 15 33 27.5
D = 523 km

Schefferville
Pn 15 33 56
Sn 15 36 12
Lg 15 37 29
D = 1408 km
Seven Falls
Pn 15 32 04
Sn 15 32 55
S₁ 15 33 19
D = 525 km
Shawinigan Falls
e(P₁) 15 32 13
Sn 15 32 52
S₁ 15 33 15
D = 490 km

OCTOBER 15
Yellowknife
eP 16 42 42

OCTOBER 15
U.S.C.G.S.
45.6N, 150.2E
Kurile Islands
H = 16 16 05.7
h 33 km
MAG 4.6 (CGS)
Mould Bay
eP 17 24 31
Resolute
eP 17 25 (17)

OCTOBER 15
U.S.C.G.S.
44.8N, 150.4E
Kurile Islands
H = 17 35 00.3
h 40 km
MAG 4.2 (CGS)
Mould Bay
eP 17 43 30

OCTOBER 15
U.S.C.G.S.
45.2N, 151.3E
Kurile Islands
H = 17 54 04.3
h 29 km
MAG 4.6 (CGS)
Alert
eP 18 03 07 (d)
Mould Bay
eP 18 02 (32)
Resolute
eP 18 03 (19)

OCTOBER 15
U.S.C.G.S.
45.3N, 151.0E
Kurile Islands
H = 18 23 57.8
h 35 km
MAG 4.9 (CGS)
Alert
eP 18 32 59
Mould Bay
eP 18 32 (22)
Resolute
eP 18 33 (10)

OCTOBER 15
U.S.C.G.S.
45.4N, 151.1E
Kurile Islands
H = 20 41 30.2
h 50 km
MAG 4.9 (CGS)
Alert
eP 20 50 30 (d)
Edmonton
eP 20 51 (21)
Mould Bay
eP 20 49 (53)
Resolute
eP 20 50 (38)
Schefferville
eP 20 53 10 d

DOMINION OBSERVATORIES

Shawinigan Falls
eP 20 53 40
Victoria
eP 20 51 00

OCTOBER 15
U.S.C.G.S.
3.0S, 129.9E
Ceram
H = 21 44 58.0
h 27 km
MAG 5.2 (CGS)
Mould Bay
eP 21 58 32
Schefferville
eP 22 04 02

OCTOBER 16
U.S.C.G.S.
45.1N, 153.7E
Kurile Islands
H = 00 45 59.5
h 45 km
MAG 4.3 (CGS)
Mould Bay
eP 00 54 19
Resolute
eP 00 55 (07)

OCTOBER 16
U.S.C.G.S.
46.1N, 151.8E
Kurile Islands
H = 01 25 06.7
h 45 km
MAG 4.9 (CGS)
Alert
eP 01 34 00
Edmonton
eP 01 34 51 c
Mould Bay
eP 01 33 23
Resolute
eP 01 34 (10)

OCTOBER 16
Mould Bay
eP 03 23 29
Resolute
eP 03 24 (15)

OCTOBER 16
Mould Bay
eP 03 56 (04)
Resolute
eP 03 56 (50)

OCTOBER 16
U.S.C.G.S.
44.8N, 150.4E
Kurile Islands
H = 05 15 36.1
h 33 km
MAG 5.2 (CGS)
Alert
eP 05 24 41
Edmonton
eP 05 25 34 d
Mould Bay
eP 05 24 06 c
Ottawa
eP 05 27 49
Resolute
eP 05 24 52
Victoria
eP 05 25 14
Yellowknife
iP 05 24 56

OCTOBER 16
Mould Bay
eP 05 59 (09)
Resolute
eP 05 59 56

OCTOBER 16
Mould Bay
eP 07 08 48

OCTOBER 16
U.S.C.G.S.
45.6N, 151.9E
Kurile Islands
H = 08 33 42.0
h 45 km
MAG 5.0 (CGS)
Alert
iP 08 42 40 c
Edmonton
eP 08 43 30
Mould Bay
eP 08 42 (03)
Resolute
eP 08 42 (49)

OCTOBER 16
U.S.C.G.S.
45.2N, 153.8E
Kurile Islands
H = 09 29 56.7
h 40 km
MAG 4.6 (CGS)
Edmonton
eP 09 39 40 d
Mould Bay
eP 09 38 (20)

OCTOBER 16
U.S.C.G.S.
45.2N, 150.4E
Kurile Islands
H = 10 30 55.2
h 45 km
MAG 5.0 (CGS)
Alert
eP 10 39 58 c
Edmonton
eP 10 40 50 (d)
Mould Bay
eP 10 39 22
Resolute
eP 10 40 09

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 16
U.S.C.G.S.
1.8S, 127.9E
Halmahera Region
H = 12 47 44.2
h 33 km
MAG 5.2 (CGS)
Mould Bay
eP 13 01 14 (c)

OCTOBER 16
U.S.C.G.S.
38.6N, 73.4E
Tadzhik S.S.R.
H = 15 43 00.8
h 33 km
MAG 5.9 (CGS)
Alert
eP 15 52 44
Edmonton
eP 15 55 (49)
Halifax
eP 15 55 56
London
eP 15 56 (27)
Mould Bay
eP 15 53 36
Ottawa
eP 15 56 10
Resolute
eP 15 53 (47)
Schefferville
eP 15 55 (13)
Victoria
eP 15 56 10
Yellowknife
iP 15 55 01

OCTOBER 16
Mould Bay
eP 16 07 (05)

OCTOBER 16
Mould Bay
eP 16 31 24

OCTOBER 16
Mould Bay
eP 16 59 (07)

OCTOBER 16
Victoria
eP 17 03 14

OCTOBER 16
Alert
eP 17 08 46
Mould Bay
iP 17 07 30 c
Resolute
eP 17 07 26 c
Schefferville
e(P) 17 07 16

OCTOBER 16
Yellowknife
eP 17 05 28

OCTOBER 16
Mould Bay
eP 18 00 (35)

OCTOBER 16
Mould Bay
iP 18 33 20
i 18 38 19

OCTOBER 16
Resolute
eP 18 52 29

OCTOBER 16
U.S.C.G.S.
28.8N, 58.0E
Southern Iran
H = 19 02 25.0
h 32 km
MAG 4.8 (CGS)
Alert
eP 19 13 06 c
Mould Bay
iP 19 14 06 c

OCTOBER 16
Mould Bay
eP 19 25 15 (c)

OCTOBER 16
Mould Bay
iP 20 41 47 c

OCTOBER 16
U.S.C.G.S.
44.4N, 150.9E
Kurile Islands
H = 21 30 52.7
h 80 km
MAG 5.0 (CGS)
Alert
eP 21 39 55 c
Edmonton
eP 21 40 45
Mould Bay
eP 21 39 18 c
Resolute
eP 21 40 06 d
Victoria
eP 21 40 25

OCTOBER 16
U.S.C.G.S.
17.7N, 62.0W
Leeward Islands Region
H = 22 21 15.8
h 67 km
MAG 4.9 (CGS)
Alert
eP 22 31 51
Mould Bay
eP 22 30 (31)
Victoria
eP 22 31 04

OCTOBER 17
Mould Bay
eP 00 22 (50)



DOMINION OBSERVATORIES

OCTOBER 17
U.S.C.G.S.
11.6N, 140.6E
Mariana Islands Region
H = 03 05 50.2
h 70 km
MAG 5.1 (CGS)
Alert
eP 03 18 21
Edmonton
eP 03 18 44
Mould Bay
eP 03 17 59
Yellowknife
eP 03 18 26

OCTOBER 17
U.S.C.G.S.
45.2N, 151.7E
Kurile Islands
H = 04 19 50.0
h 50 km
MAG 4.5 (CGS)
Alert
eP 04 28 51 c
Edmonton
eP 04 29 40
Mould Bay
eP 04 28 13

OCTOBER 17
46°10'N, 77°35'W
About 10 miles from
Deep River, Ontario
H = 05 13 40.8
h 15 km
MAG 3.0
London
Lg 05 15 47
D = 450 km
Ottawa
Pn 05 14 06.8
P₁ 05 14 10
Sn 05 14 28
S₁ 05 14 32
D = 175 km

OCTOBER 17
Resolute
eP 05 22 28

OCTOBER 17
U.S.C.G.S.
44.3N, 149.1E
Kurile Islands
H = 08 10 55.2
h 45 km
MAG 4.7 (CGS)
Edmonton
eP 08 20 59 d
Mould Bay
eP 08 19 29
Resolute
eP 08 20 (16)

OCTOBER 17
Resolute
eP 08 33 (01)

OCTOBER 17
U.S.C.G.S.
45.8N, 151.7E
Kurile Islands
H = 08 31 18.6
h 45 km
MAG 4.6 (CGS)
Alert
e(P) 08 40 18
Edmonton
eP 08 41 07
Mould Bay
eP 08 39 (42)

OCTOBER 17
U.S.C.G.S.
38.8N, 73.4E
Tadzhik, S.S.R.
H = 09 33 24.0
h 40 km
MAG 4.4 (CGS)
Edmonton
eP 09 46 (12)

Mould Bay
eP 09 44 01 (d)

OCTOBER 17
Mould Bay
eP 09 52 (50)

OCTOBER 17
U.S.C.G.S.
43.8N, 151.0E
Kurile Islands
H = 10 16 48.9
h 50 km
MAG 4.5 (CGS)
Edmonton
eP 10 26 48
Resolute
eP 10 26 10

OCTOBER 17
U.S.C.G.S.
45.1N, 150.3E
Kurile Islands
H = 12 58 33.6
h 50 km
MAG 4.2 (CGS)
Edmonton
eP 13 08 29
Mould Bay
eP 13 07 (01)

OCTOBER 17
U.S.C.G.S.
44.2N, 149.2E
Kurile Islands
H = 14 06 32.2
h 40 km
MAG 4.6 (CGS)
Edmonton
eP 14 16 36 d
Mould Bay
eP 14 15 8
Resolute
eP 14 15 54

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 17
U.S.C.G.S.
9.8N, 126.5E
Near East Coast of
Mindanao, P.I.
H = 14 13 59.8
h 33 km
MAG 5.4 (CGS)
Alert
eP 14 26 47
Mould Bay
eP 14 26 39 d
Resolute
eP 14 27 07 c

OCTOBER 17
U.S.C.G.S.
44.1N, 149.2E
Kurile Islands
H = 15 03 12.7
h 55 km
MAG 4.6 (CGS)
Edmonton
eP 15 13 16
Mould Bay
eP 15 11 (48)
Resolute
eP 15 12 (33)

OCTOBER 17
48.5°N, 125°4W
West of Vancouver Island
H = 15 51 13
MAG 1.6
Alberni
eP 15 51 28.6
D = 97 km
Port Hardy
eP 15 51 55.2
D = 290 km
Victoria
eP 15 51 36.3
D = 144 km

OCTOBER 17
75°10'N, 74°10'W
On Baffin Bay, about
100 miles East of Devon
Island, NWT
H = 16 49 47.6
MAG 3.6
Alert
Pn 16 51 38
Sn 16 53 07
D = 855 km
Mould Bay
Pn 16 52 24
D = 1216 km
Resolute
Pn 16 51 05
Sn 16 52 08.5
D = 590 km

OCTOBER 17
Yellowknife
eP 23 04 40

OCTOBER 17
U.S.C.G.S.
44.6N, 149.0E
Kurile Islands
H = 23 24 34.4
h 45 km
MAG 5.4 (CGS)
Alert
eP 23 33 41
Edmonton
eP 23 34 36 c
Halifax
eP 23 37 17 (d)
London
eP 23 36 (52)
Mould Bay
eP 23 33 05
Ottawa
eP 23 36 50
Port Hardy
eP 23 33 55
Resolute
eP 23 33 53

Schefferville
eP 23 36 22
Shawinigan Falls
eP 23 36 53
Victoria
eP 23 34 20
Yellowknife
eP 23 33 56

OCTOBER 17
U.S.C.G.S.
44.5N, 149.0E
Kurile Islands
H = 23 54 56.9
h 45 km
MAG 4.9 (CGS)
Edmonton
(eP) 24 05 00
Mould Bay
eP 24 03 30
Resolute
eP 24 04 16 d

OCTOBER 18
U.S.C.G.S.
44.5N, 149.1E
Kurile Islands
H = 01 59 38.8
h 45 km
MAG 4.9 (CGS)
Edmonton
eP 02 09 41
Mould Bay
eP 02 08 12 (d)
Resolute
eP 02 08 58
Schefferville
eP 02 11 25

DOMINION OBSERVATORIES

OCTOBER 18
U.S.C.G.S.
44.5N, 150.4E
Kurile Islands
H = 04 01 21.7
h 60 km
MAG 4.8 (CGS)
Alert
eP 04 10 (27)
Edmonton
eP 04 11 18 (c)
Mould Bay
eP 04 09 51
Resolute
eP 04 10 37

OCTOBER 18
U.S.C.G.S.
42.8N, 141.4E
Near North Coast of
Hokkaido, Japan
H = 05 16 10.4
h 40 km
MAG 4.6 (CGS)
Mould Bay
eP 05 25 10
Resolute
eP 05 25 53 c

OCTOBER 18
U.S.C.G.S.
44.7N, 149.9E
Kurile Islands
H = 06 20 21.6
h 60 km
MAG 4.3 (CGS)
Edmonton
eP 06 30 18 c
Mould Bay
eP 06 28 51 (c)
Resolute
eP 06 29 37

OCTOBER 18
77.5°N, 118.1°W
Off Coast of Prince
Patrick Island, NWT
H = 07 09 28.6
MAG 3.0
Mould Bay
P₁ 07 09 51 c
S₁ 07 10 08
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 07 11 35.6
MAG 1.6
Mould Bay
P₁ 07 11 58
S₁ 07 12 15
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off East Coast of Prince
Patrick Island, NWT
H = 07 12 46.6
MAG 2.1
Mould Bay
P₁ 07 13 09
S₁ 07 13 26
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 07 14 20.6
MAG 1.6
Mould Bay
P₁ 07 14 43
S₁ 07 15 00
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 07 15 28.6
MAG 1.6
Mould Bay
F₁ 07 15 51
S₁ 07 16 08
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 07 24 05.6
MAG 1.9
Mould Bay
P₁ 07 24 28
S₁ 07 24 46
D = 140 km

OCTOBER 18
U.S.C.G.S.
44.8N, 150.0E
Kurile Islands
H = 07 55 14.0
h 55 km
MAG 4.3 (CGS)
Edmonton
eP 08 05 11
Mould Bay
eP 08 03 (43)
Resolute
eP 08 04 29

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick Island,
Near Cape Leopold
McClintock, NWT
H = 08 07 02.6
MAG 3.4
Edmonton
eP 08 09 53

SEISMOLOGICAL BULLETIN - 1963

Mould Bay
P₁ 08 07 25
S₁ 08 07 42
D = 140 km
Resolute
e 08 08 37
(Sn) 08 09 42
Lg 08 10 17
D = 690 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 08 10 22.6
MAG 1.8
Mould Bay
P₁ 08 10 45
S₁ 08 11 03
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Isle, NWT
H = 08 11 42.6
MAG 1.8
Mould Bay
F₁ 08 12 15
S₁ 08 12 32
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 08 14 39.6
MAG 1.5
Mould Bay
P₁ 08 15 02
S₁ 08 15 19
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 08 19 03.6
MAG 1.7
Mould Bay
P₁ 08 19 26
S₁ 08 19 43
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 03 22 04.6
MAG 2.0
Mould Bay
P₁ 08 22 27
S₁ 08 22 44
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 08 29 30.6
MAG 1.5
Mould Bay
P₁ 08 29 53
S₁ 08 30 10
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 08 38 26.6
MAG 1.6
Mould Bay
P₁ 08 38 49
S₁ 08 39 06
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 08 39 40.6
MAG 1.9
Mould Bay
P₁ 08 40 03
S₁ 08 40 20
D = 140 km

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 08 54 22.6
MAG 1.5
Mould Bay
P₁ 08 54 45
S₁ 08 55 02
D = 140 km

OCTOBER 18
Mould Bay
eP 09 02 02
Resolute
eP 09 02 48

OCTOBER 18
Edmonton
eP 09 03 29

OCTOBER 18
77.5°N, 118.1°W
Off Prince Patrick
Island, NWT
H = 09 30 43.6
MAG 1.8
Mould Bay
P₁ 09 31 06
S₁ 09 31 23
D = 140 km

DOMINION OBSERVATORIES

<p>OCTOBER 18 U.S.C.G.S. 44.9N, 152.8E Kurile Islands H = 10 18 18.3 h 55 km MAG 4.3 (CGS) Mould Bay eP 10 26 (39) Resolute eP 10 27 27</p> <p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 10 47 51.4 MAG 1.9 Mould Bay P₁ 10 48 14 S₁ 10 48 31 D = 140 km</p> <p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 10 53 49.1 MAG 2.2 Mould Bay P₁ 10 54 11.5 S₁ 10 54 29.0 D = 140 km</p> <p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 11 04 42.6 MAG 1.4 Mould Bay P₁ 11 05 05 S₁ 11 05 22 D = 140 km</p>	<p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 11 06 27.6 MAG 2.2 Mould Bay P₁ 11 03 50 S₁ 11 07 07 D = 140 km</p> <p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 12 43 25.6 MAG 1.6 Mould Bay P₁ 12 43 48 S₁ 12 44 05 D = 140 km</p> <p>OCTOBER 18 76°20'N, 75°00'W In Baffin Bay - about 75 miles N.W. of Devon Isle., NWT H = 13 46 12 MAG 3.5 Alert Sn - Pn 1' 15" D = 705 km Mould Bay Pn 13 48 39 D = 1155 km Resolute Pn 13 47 25 Sn 13 48 24 D = 550 km</p> <p>OCTOBER 18 Resolute eP 17 46 (45)</p>	<p>OCTOBER 18 U.S.C.G.S. 45.6N, 150.6E Kurile Islands H = 17 55 00.2 h 40 km MAG 5.2 (CGS) Alert iP 18 04 00 c Edmonton eP 18 04 53 Mould Bay iP 18 03 23 c Resolute iP 18 04 10 c Schefferville eP 18 06 39 (c) Shawinigan Falls eP 18 07 09 c Victoria eP 18 04 33</p> <p>OCTOBER 18 71.4°N, 73.3°W Near East Coast of Baffin Isle., NWT H = 19 32 31 MAG 4.8 Frobisher Pn taken as 0' 00" Sn - Pn 1' 21" Lg - Sn 41" D = 820 km Resolute Pn 19 34 17 Sn 19 35 31 Lg 19 36 19 D = 829 km Schefferville Pn 19 36 16 Sn 19 39 16 Lg 19 41 01 D = 1810 km Mould Bay Pn 19 35 39.5 D = 1540 km</p>
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SEISMOLOGICAL BULLETIN - 1963

<p>OCTOBER 18 Ottawa eP 19 45 54</p> <p>OCTOBER 18 U.S.C.G.S. 47.6N, 154.3E Kurile Islands H = 20 05 14.4 h 40 km MAG 5.1 (CGS) Alert eP 20 13 57 c Edmonton eP 20 14 44 c Mould Bay eP 20 13 16 c Resolute eP 20 14 05 Schefferville eP 20 16 37 Shawinigan Falls eP 20 17 07 c Victoria eP 20 14 24 Yellowknife eP 20 14 04</p> <p>OCTOBER 18 Resolute eP 21 12 05</p> <p>OCTOBER 18 U.S.C.G.S. 45.2N, 151.1E Kurile Islands H = 21 22 52.7 h 45 km MAG 5.0 (CGS) Alert eP 21 31 54 d Edmonton eP 21 32 45 Mould Bay eP 21 31 17 (d)</p>	<p>Schefferville e(P) 21 34 32 Shawinigan Falls eP 21 35 02 Victoria eP 21 32 25 Yellowknife iP 21 32 06</p> <p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 22 41 34.6 MAG 1.6 Mould Bay P₁ 22 41 57 S₁ 22 42 14 D = 140 km</p> <p>OCTOBER 18 Mould Bay eP 21 42 38 (c)</p> <p>OCTOBER 18 U.S.C.G.S. 46.1N, 152.5E Kurile Islands H = 22 52 50.6 h 40 km MAG 4.4 (CGS) Alert eP 23 01 46</p> <p>OCTOBER 18 U.S.C.G.S. 44.7N, 149.2E Kurile Islands H = 23 43 35.9 h 45 km MAG 4.4 (CGS) Mould Bay eP 23 52 07 Resolute eP 23 52 53</p>	<p>OCTOBER 19 U.S.C.G.S. 18.3S, 71.2W Near Coast of Southern Peru H = 02 14 17.4 h 78 km MAG 4.5 Edmonton eP 02 26 21 c</p> <p>OCTOBER 19 U.S.C.G.S. 46.8N, 153.7E Kurile Islands H = 02 18 37.9 h 45 km MAG 5.2 (CGS) Alert eP 02 27 26 c Edmonton (eP) 02 28 16 (d) London eP 02 30 34 Mould Bay eP 02 26 45 (c) Ottawa eP 02 30 35 Resolute eP 02 27 34 Schefferville eP 02 30 (06) Shawinigan Falls eP 02 30 36 Victoria eP 02 27 53 Yellowknife i 02 27 34</p>
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DOMINION OBSERVATORIES

OCTOBER 19
 U.S.C.G.S.
 46.7N, 154.0E
 Kurile Islands
 H = 03 02 43.0
 h 33 km
 MAG 3.9 (CGS)
 Alert
 eP 03 11 33

OCTOBER 19
 U.S.C.G.S.
 46.5N, 153.9E
 Kurile Islands
 H = 03 15 02.5
 h 40 km
 MAG 5.1 (CGS)
 Alert
 i 03 23 52
 Edmonton
 eP 03 24 38 (d)
 Mould Bay
 eP 03 23 12
 Resolute
 eP 03 24 01
 Shawinigan Falls
 eP 03 27 05
 Victoria
 eP 03 24 18
 Yellowknife
 eP 03 24 02

OCTOBER 19
 U.S.C.G.S.
 46.6N, 153.8E
 Kurile Islands
 H = 03 34 19.6
 h 33 km
 MAG 5.4 (CGS)
 Alert
 eP 03 43 09 c
 Edmonton
 eP 03 43 56
 London
 eP 03 46 18

Mould Bay
 eP 03 42 29 (c)
 Ottawa
 eP 03 46 18
 Resolute
 eP 03 43 18
 Schefferville
 eP 03 45 50
 Shawinigan Falls
 eP 03 46 19
 Victoria
 eP 03 43 37
 Yellowknife
 iP 03 43 18

OCTOBER 19
 U.S.C.G.S.
 46.8N, 153.8E
 Kurile Islands
 H = 03 47 07.7
 h 25 km
 MAG 5.2 (CGS)
 Alert
 iP 03 55 59 c
 Edmonton
 eP 03 56 45 c
 London
 eP 03 59 07
 Mould Bay
 eP 03 55 18 (c)
 Ottawa
 eP 03 59 06
 Resolute
 eP 03 56 06
 Schefferville
 eP 03 58 37
 Shawinigan Falls
 eP 03 59 06
 Victoria
 eP 03 56 24
 Yellowknife
 eP 03 56 05

OCTOBER 19
 U.S.C.G.S.
 46.8N, 153.7E
 Kurile Islands
 H = 04 07 35.4
 h 40 km
 MAG 4.5 (CGS)
 Alert
 eP 04 16 25 (d)
 Mould Bay
 eP 04 15 (45)

OCTOBER 19
 U.S.C.G.S.
 47.3N, 153.6E
 Kurile Islands
 H = 04 10 44.0
 h 40 km
 MAG 4.2 (CGS)
 Alert
 eP 04 19 30

OCTOBER 19
 U.S.C.G.S.
 44.4N, 149.3E
 Kurile Islands
 H = 04 26 17.4
 h 50 km
 MAG 4.5 (CGS)
 Resolute
 eP 04 35 36

OCTOBER 19
 Mould Bay
 eP 05 47 (24)

OCTOBER 19
 U.S.C.G.S.
 44.6N, 149.1E
 Kurile Islands
 H = 05 41 18.1
 h 40 km
 MAG 4.2 (CGS)
 Resolute
 eP 05 50 37

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 19
 59.0°N, 67.8°W
 Toulmoustouc River
 Area, Que.
 or
 50.0°N, 65.0°W
 Mouth of St. Lawrence
 About 20 miles W. of
 Anticosti Isle.
 H = 06 29 34.4
 MAG 2.9
 Sept-Iles
 P₁ 06 29 51.2
 S₁ 06 30 04
 D = 105 km
 Schefferville
 (P₁) 06 31 00.5
 S₁ 06 32 05
 D = 535 km

OCTOBER 19
 U.S.C.G.S.
 41.2N, 71.3E
 Kirghiz, S.S.R.
 H = 06 46 06.7
 h 33 km
 MAG 5.0 (CGS)
 Mould Bay
 eP 06 56 30
 Yellowknife
 eP 06 57 54

OCTOBER 19
 U.S.C.G.S.
 58.7N, 137.4W
 Southern Alaska
 H = 07 00 24.8
 h 34 km
 MAG 3.9 (CGS)
 Mould Bay
 eP 07 04 38 d
 Resolute
 eP 07 05 (20)

OCTOBER 19
 Victoria
 eP 07 07 10

OCTOBER 19
 Yellowknife
 eP 07 03 06 c

OCTOBER 19
 Mould Bay
 eP 07 44 (44)

OCTOBER 19
 U.S.C.G.S.
 9.9N, 126.1E
 Near East Coast of
 Leyte, Philippine Isle.
 H = 09 02 20.1
 h 86 km
 Mould Bay
 eP 09 14 54

OCTOBER 19
 U.S.C.G.S.
 45.4N, 149.2E
 Kurile Islands
 H = 09 38 08.0
 h 30 km
 MAG 4.6 (CGS)
 Resolute
 eP 09 47 24

OCTOBER 19
 U.S.C.G.S.
 62.4N, 149.6W
 Central Alaska
 H = 11 19 31.8
 h 96 km
 MAG 4.3 (CGS)
 Edmonton
 eP 11 24 09 c
 Mould Bay
 eP 11 23 (30)
 Resolute
 eP 11 24 (28)
 Yellowknife
 eP 11 23 12

OCTOBER 19
 U.S.C.G.S.
 44.8N, 150.9E
 Kurile Islands
 H = 15 42 32.8
 h 40 km
 MAG 4.4 (CGS)
 Resolute
 eP 15 51 (53)

OCTOBER 19
 U.S.C.G.S.
 44.4N, 150.9E
 Kurile Islands
 H = 16 15 21.4
 h 120 km
 MAG 5.1 (CGS)
 Alert
 iP 16 24 20 c

Edmonton
 eP 16 25 09 (d)
 Mould Bay
 eP 16 23 43 d
 Resolute
 eP 16 24 30
 Victoria
 eP 16 24 49
 Yellowknife
 iP 16 24 32

OCTOBER 19
 U.S.C.G.S.
 45.0N, 149.4E
 Kurile Islands
 H = 16 20 53.8
 h 45 km
 MAG 4.4 (CGS)
 Resolute
 eP 16 30 10

OCTOBER 19
 Mould Bay
 eP 18 04 12

DOMINION OBSERVATORIES

OCTOBER 19
U.S.C.G.S.
46.5N, 152.7E
Kurile Islands
H = 18 01 58.0
h 40 km
MAG 4.2 (CGS)
Alert
eP 18 10 50

OCTOBER 19
Canadian Arctic
H = 18 03 46.9
MAG 2.2
Mould Bay
P₁ 18 04 11.7
S₁ 18 04 30.4
D = 153

OCTOBER 19
Resolute
eP 18 21 02

OCTOBER 19
U.S.C.G.S.
45.2N, 151.2E
Kurile Islands
H = 19 10 15.4
h 45 km
MAG 4.3 (CGS)
Alert
eP 19 19 16

OCTOBER 19
U.S.C.G.S.
42.6N, 152.0E
Kurile Islands
H = 20 53 37.0
h 40 km
MAG 3.9 (CGS)
Resolute
eP 21 03 (09)

OCTOBER 19
Mould Bay
eP 21 05 53

OCTOBER 19
U.S.C.G.S.
45.2N, 151.1E
Kurile Islands
H = 23 11 40.9
h 33 km
MAG 4.6 (CGS)
Alert
eP 23 20 44
Mould Bay
eP 23 20 07 (d)
Resolute
eP 23 20 54

OCTOBER 19
U.S.C.G.S.
45.1N, 151.4E
Kurile Islands
H = 23 44 31.6
h 40 km
MAG 4.4 (CGS)
Alert
eP 23 53 35
Mould Bay
eP 23 52 (57)
Resolute
eP 23 53 44

OCTOBER 20
U.S.C.G.S.
44.7N, 150.7E
Kurile Islands
H = 00 53 07.2
h 25 km
MAG 6.8 (Pas)
Alert
eP 01 02 15
Edmonton
eP 01 03 (07)
Halifax
eP 01 05 (55)
London
eP 01 05 (29)
Mould Bay
eP 01 01 39

Ottawa
eP 01 05 29 (d)
Port Hardy
iP 01 02 48
Resolute
eP 01 02 26
Scarboro
eP 01 05 31 (d)
Shawinigan Falls
eP 01 05 (26)
Victoria
eP 01 02 48
Yellowknife
eP 01 02 29

OCTOBER 20
Yellowknife
e 01 16 44

OCTOBER 20
U.S.C.G.S.
44.6N, 150.1E
Kurile Islands
H = 01 14 05.2
h 45 km
MAG 4.8 (CGS)
Edmonton
eP 01 24 (04)

OCTOBER 20
U.S.C.G.S.
45.9N, 153.6E
Kurile Islands
H = 01 22 35.1
h 40 km
MAG 5.0 (CGS)
Alert
iP 01 31 28 c
Resolute
eP 01 31 36
Yellowknife
eP 01 31 44

OCTOBER 20
Yellowknife
eP 01 50 18

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 20
Resolute
eP 02 15 (41)

OCTOBER 20
U.S.C.G.S.
44.7N, 150.0E
Kurile Islands
H = 02 09 29.4
h 45 km
MAG 4.9 (CGS)
Alert
eP 02 18 34
Edmonton
eP 02 19 27 (c)
Mould Bay
eP 02 17 59 (d)
Resolute
eP 02 18 (45)
Yellowknife
eP 02 18 49

OCTOBER 20
U.S.C.G.S.
44.8N, 150.0E
Kurile Islands
H = 02 20 36.7
h 40 km
MAG 4.2 (CGS)
Resolute
eP 02 29 53

OCTOBER 20
Resolute
eP 02 56 15

OCTOBER 20
U.S.C.G.S.
46.5N, 148.1E
Kurile Islands
H = 02 52 00.0
h 40 km
MAG 3.8 (CGS)
Resolute
eP 03 01 06

OCTOBER 20
U.S.C.G.S.
44.4N, 149.6E
Kurile Islands
H = 02 58 54.2
h 60 km
MAG 4.5 (CGS)
Mould Bay
eP 03 07 26
Resolute
eP 03 08 13

OCTOBER 20
Resolute
eP 03 22 (46)

OCTOBER 20
U.S.C.G.S.
46.7N, 152.0E
Kurile Islands
H = 03 16 51.0
h 33 km
MAG 4.2 (CGS)
Alert
eP 03 25 45

OCTOBER 20
Resolute
eP 03 40 03

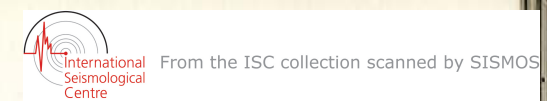
OCTOBER 20
U.S.C.G.S.
44.3N, 149.4E
Kurile Islands
H = 03 41 41.9
h 45 km
MAG 3.9 (CGS)
Mould Bay
eP 03 50 16
Resolute
eP 03 51 03

OCTOBER 20
U.S.C.G.S.
44.8N, 149.9E
Kurile Islands
H = 03 55 28.9
h 55 km
MAG 4.2 (CGS)
Resolute
eP 04 04 44

OCTOBER 20
U.S.C.G.S.
45.3N, 149.7E
Kurile Islands
H = 03 59 15.4
h 55 km
MAG 4.6 (CGS)
Resolute
eP 04 08 28

OCTOBER 20
U.S.C.G.S.
44.4N, 149.9E
Kurile Islands
H = 04 31 37.1
h 50 km
MAG 4.3 (CGS)
Mould Bay
eP 04 40 (08)
Resolute
eP 04 40 55

OCTOBER 20
U.S.C.G.S.
44.9N, 150.3E
Kurile Islands
H = 04 40 09.1
h 50 km
MAG 4.6 (CGS)
Alert
eP 04 49 13
Edmonton
eP 04 50 06 d
Mould Bay
eP 04 48 37



DOMINION OBSERVATORIES

Resolute
eP 04 49 24

OCTOBER 20
U.S.C.G.S.
44.6N, 149.8E
Kurile Islands
H = 04 46 57.9
h 40 km
MAG 4.2 (CGS)
Resolute
eP 04 56 17

OCTOBER 20
U.S.C.G.S.
44.5N, 149.7E
Kurile Islands
H = 04 58 55.0
h 50 km
MAG 4.4 (CGS)
Alert
eP 05 08 01
Resolute
eP 05 08 14 d

OCTOBER 20
U.S.C.G.S.
44.9N, 151.4E
Kurile Islands
H = 05 20 18.0
h 50 km
MAG 4.8 (CGS)
Mould Bay
eP 05 28 (45)
Resolute
eP 05 29 (31)

OCTOBER 20
U.S.C.G.S.
47.2N, 153.7E
Kurile Islands
H = 05 40 50.6
h 55 km
MAG 4.5 (CGS)
Alert
eP 05 49 36

Mould Bay
eP 05 48 59

OCTOBER 20
U.S.C.G.S.
44.6N, 149.7E
Kurile Islands
H = 05 52 29.2
h 40 km
MAG 4.0 (CGS)
Resolute
eP 06 01 47

OCTOBER 20
U.S.C.G.S.
44.3N, 149.2E
Kurile Islands
H = 06 02 14.7
h 40 km
MAG 4.2 (CGS)
Resolute
eP 06 11 36

OCTOBER 20
U.S.C.G.S.
43.9N, 150.7E
Kurile Islands
H = 06 10 25.0
h 50 km
MAG 5.2 (CGS)
Alert
eP 06 19 35
Edmonton
eP 06 20 24 (c)
Resolute
eP 06 19 45
Shawinigan Falls
eP 06 22 41
Victoria
eP 06 20 04
Yellowknife
iP 06 19 47 d

OCTOBER 20
U.S.C.G.S.
44.4N, 150.3E
Kurile Islands
H = 06 38 51.0
h 50 km
MAG 4.8 (CGS)
Resolute
eP 06 48 10

OCTOBER 20
U.S.C.G.S.
44.4N, 150.0E
Kurile Islands
H = 06 56 43.5
h 40 km
MAG 4.1 (CGS)
Resolute
eP 07 06 03

OCTOBER 20
Resolute
eP 07 15 27

OCTOBER 20
U.S.C.G.S.
44.7N, 149.9E
Kurile Islands
H = 07 20 20.5
h 40 km
MAG 4.3 (CGS)
Mould Bay
eP 07 28 52
Resolute
eP 07 29 (38)

OCTOBER 20
U.S.C.G.S.
44.3N, 149.4E
Kurile Islands
H = 08 26 12.3
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 08 36 16

SEISMOLOGICAL BULLETIN - 1963

Mould Bay
eP 08 34 (46)
Resolute
eP 08 35 34
Yellowknife
eP 08 35 39

OCTOBER 20
Resolute
eP 09 04 05

OCTOBER 20
U.S.C.G.S.
44.4N, 150.0E
Kurile Islands
H = 09 10 43.9
h 40 km
MAG 5.5 (CGS)
Alert
eP 09 19 52
Edmonton
eP 09 20 44 (c)
Halifax
eP 09 23 24 c
London
eP 09 22 59
Mould Bay
eP 09 19 17 d
Ottawa
eP 09 23 01
Resolute
eP 09 20 03 d
Scarboro
eP 09 23 01
Shawinigan Falls
eP 09 23 00
Victoria
eP 09 20 25
Yellowknife
iP 09 20 07 c

OCTOBER 20
Resolute
eP 09 39 01

OCTOBER 20
Resolute
eP 10 43 (34)

OCTOBER 20
Resolute
eP 10 56 45

OCTOBER 20
U.S.C.G.S.
44.4N, 149.7E
Kurile Islands
H = 11 08 57.9
h 40 km
MAG 4.3 (CGS)
Mould Bay
eP 11 17 (31)
Resolute
eP 11 18 18

OCTOBER 20
U.S.C.G.S.
44.2N, 150.6E
Kurile Islands
H = 11 35 46.6
h 45 km
MAG 4.4 (CGS)
Resolute
eP 11 45 09

OCTOBER 20
U.S.C.G.S.
44.7N, 150.2E
Kurile Islands
H = 11 52 20.7
h 45 km
MAG 5.1 (CGS)
Alert
eP 12 01 25
Edmonton
eP 12 02 18 d
Halifax
eP 12 04 58
London
eP 12 04 34

Mould Bay
eP 12 00 50 c
Ottawa
eP 12 04 33
Resolute
eP 12 01 36 c
Scarboro
eP 12 04 35
Yellowknife
e 12 01 (40)

OCTOBER 20
U.S.C.G.S.
45.0N, 149.6E
Kurile Islands
H = 12 09 31.1
h 45 km
MAG 4.2 (CGS)
Mould Bay
eP 12 18 (00)
Resolute
eP 12 18 46

OCTOBER 20
Resolute
eP 12 24 54

OCTOBER 20
U.S.C.G.S.
24.1N, 5.1E
Southern Algeria
H = 12 59 58.6
h 0 km
MAG 5.6 (CGS)
Alert
iP 13 10 31 c
Edmonton
iP 13 12 44 c
Halifax
eP 13 09 57
London
eP 13 11 21 c
Mould Bay
eP 13 11 39
Resolute
eP 13 11 11

DOMINION OBSERVATORIES

Yellowknife
iP 13 12 18

OCTOBER 20
U.S.C.G.S.
44.1N, 151.1E

Kurile Islands
H = 15 11 23.5
h 50 km
MAG 4.7 (CGS)
Mould Bay
eP 15 19 (57)
Resolute
eP 15 20 41

OCTOBER 20
U.S.C.G.S.
43.7N, 150.3E

Kurile Islands
H = 15 29 06.5
h 50 km
MAG 4.5 (CGS)
Resolute
eP 15 38 (30)

OCTOBER 20
U.S.C.G.S.
47.4N, 149.0E

Kurile Islands
H = 15 53 48.1
h 45 km
MAG 4.2 (CGS)
Mould Bay
eP 16 02 (03)
Resolute
eP 16 02 49 d

OCTOBER 20
U.S.C.G.S.
44.6N, 150.0E

Kurile Islands
H = 14 02 36.8
h 45 km
MAG 4.2 (CGS)
Resolute
eP 14 11 55

OCTOBER 20
U.S.C.G.S.
44.3N, 149.7E

Kurile Islands
H = 16 00 15.1
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 16 08 48
Resolute
eP 16 09 34

OCTOBER 20
Shawinigan Falls
eP 16 37 19

OCTOBER 20
U.S.C.G.S.
44.2N, 149.6E

Kurile Islands
H = 17 41 27.3
h 45 km
MAG 4.8 (CGS)
Alert
eP 17 50 36

Edmonton
eP 17 51 30 d

Halifax
eP 17 54 (18)

Mould Bay
iP 17 49 59

Resolute
eP 17 50 48

Schefferville
eP 17 53 12

Shawinigan Falls
eP 17 53 53

Yellowknife
iP 17 50 59

OCTOBER 20
U.S.C.G.S.
44.2N, 149.6E

Kurile Islands
H = 17 58 58.7
h 45 km
MAG 5.0 (CGS)
Alert
eP 18 08 07

Edmonton
eP 18 09 00

Mould Bay
eP 18 07 32

Ottawa
eP 18 11 14

Resolute
eP 18 08 18

SEISMOLOGICAL BULLETIN - 1963

Schefferville
eP 18 10 (45)

Shawinigan Falls
eP 18 11 (16)

OCTOBER 20
Yellowknife
iP 18 09 00

OCTOBER 20
U.S.C.G.S.
44.2N, 149.6E

Kurile Islands
H = 19 47 14.3
h 45 km
MAG 4.3 (CGS)

Edmonton
eP 19 57 15

Mould Bay
eP 19 55 (47)

Resolute
eP 19 56 34

OCTOBER 20
Resolute
eP 20 02 58

OCTOBER 20
U.S.C.G.S.
45.0N, 149.8E

Kurile Islands
H = 21 08 21.7
h 40 km
MAG 4.5 (CGS)

Edmonton
eP 21 18 (25)

Resolute
eP 21 17 39

OCTOBER 20
U.S.C.G.S.
21.9N, 94.7E

Burma
H = 21 49 36.0
h 115 km

Alert
eP 22 01 08 c

Mould Bay
eP 22 01 33 c

Resolute
eP 22 01 52

OCTOBER 20
U.S.C.G.S.
44.2N, 149.7E

Kurile Islands
H = 22 47 53.3
h 40 km
MAG 4.1 (CGS)
Resolute
eP 22 57 15

OCTOBER 21
Resolute
eP 01 31 05

OCTOBER 21
Mould Bay
eP 02 24 (29)

OCTOBER 21
U.S.C.G.S.
44.3N, 149.9E

Kurile Islands
H = 02 16 38.1
h 65 km
MAG 4.1 (CGS)
Resolute
eP 02 25 56

OCTOBER 21
U.S.C.G.S.
44.0N, 149.9E

Kurile Islands
H = 03 14 54.0
h 33 km
MAG 4.4 (CGS)
Resolute
eP 03 24 14

OCTOBER 21
U.S.C.G.S.
44.7N, 150.3E

Kurile Islands
H = 09 40 14.6
h 55 km
MAG 4.7 (CGS)
Alert
eP 09 49 19

Mould Bay
eP 09 48 44 (c)

Resolute
eP 09 49 30

OCTOBER 21
U.S.C.G.S.
44.2N, 151.6E

Kurile Islands
H = 02 22 12.0
h 33 km
MAG 4.4 (CGS)
Resolute
eP 02 31 (30)

OCTOBER 21
U.S.C.G.S.
44.0N, 149.7E

Kurile Islands
H = 03 03 33.6
h 45 km
MAG 4.1 (CGS)
Edmonton
eP 03 13 36

Resolute
eP 03 12 56

DOMINION OBSERVATORIES

OCTOBER 21
U.S.C.G.S.
45.0N, 150.3E
Kurile Islands
H = 10 07 52.9
h 55 km
MAG 4.4 (CGS)
Alert
eP 10 16 56
Edmonton
eP 10 17 48
Mould Bay
eP 10 16 20 c
Resolute
eP 10 17 07

OCTOBER 21
Resolute
eP 11 55 30

OCTOBER 21
U.S.C.G.S.
45.2N, 151.6E
Kurile Islands
H = 13 09 05.4
h 45 km
MAG 4.8 (CGS)
Alert
eP 13 18 06 c
Edmonton
eP 13 18 56
Mould Bay
eP 13 17 28
Resolute
eP 13 18 18

OCTOBER 21
U.S.C.G.S.
44.6N, 149.8E
Kurile Islands
H = 13 40 39.3
h 33 km
MAG 3.9 (CGS)
Resolute
eP 13 49 59

OCTOBER 21
U.S.C.G.S.
38.4N, 73.3E
Tadzhik, S.S.R.
H = 14 49 14.9
h 84 km
MAG 4.8 (CGS)
Mould Bay
iP 14 59 49 d
Yellowknife
eP 15 01 12

OCTOBER 21
U.S.C.G.S.
44.6N, 150.5E
Kurile Islands
H = 15 35 35.4
h 50 km
MAG 4.5 (CGS)
Mould Bay
eP 15 44 04
Resolute
eP 15 44 51

OCTOBER 21
U.S.C.G.S.
45.5N, 149.7E
Kurile Islands
H = 15 38 24.3
h 55 km
MAG 5.4 (CGS)
Edmonton
iP 15 48 19 c
Mould Bay
eP 15 46 48
Resolute
iP 15 47 34 c
Schefferville
eP 15 50 03 c
Shawinigan Falls
eP 15 50 34 c
Yellowknife
iP 15 47 40 c

OCTOBER 21
U.S.C.G.S.
44.1N, 150.3E
Kurile Islands
H = 17 20 46.0
h 65 km
MAG 5.0 (CGS)
Edmonton
eP 17 30 (44)
Mould Bay
eP 17 29 (19)
Resolute
eP 17 30 04
Yellowknife
eP 17 30 06

OCTOBER 21
Mould Bay
eP 18 04 (29)

OCTOBER 21
U.S.C.G.S.
44.2N, 151.0E
Kurile Islands
H = 20 39 39.3
h 50 km
MAG 4.6 (CGS)
Mould Bay
eP 20 48 (10)
Resolute
eP 20 49 00

OCTOBER 21
Resolute
eP 22 49 22

OCTOBER 21
U.S.C.G.S.
44.0N, 150.3E
Kurile Islands
H = 23 18 41.3
h 50 km
MAG 4.9 (CGS)
Alert
e(P) 23 27 51

SEISMOLOGICAL BULLETIN - 1963

Mould Bay
eP 23 27 (16)
Resolute
eP 23 28 02

OCTOBER 21
U.S.C.G.S.
44.0N, 150.1E
Kurile Islands
H = 23 29 20.7
h 55 km
MAG 5.2 (CGS)
Alert
e(P) 23 38 31
Mould Bay
eP 23 37 55
Resolute
eP 23 38 41

OCTOBER 21
U.S.C.G.S.
44.2N, 149.0E
Kurile Islands
H = 23 33 16.1
h 55 km
MAG 4.7 (CGS)
Mould Bay
eP 23 41 50
Resolute
i 23 42 36

OCTOBER 22
Resolute
eP 00 51 08

OCTOBER 22
U.S.C.G.S.
13.7N, 121.6E
Luzon, Philippine Isles.
H = 01 01 14.8
h 15 km
MAG 5.0 (CGS)
Mould Bay
eP 01 13 43 (d)
Resolute
eP 01 14 10

OCTOBER 22
U.S.C.G.S.
44.3N, 151.2E
Kurile Islands
H 02 29 06.9
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 02 37 (39)
Resolute
eP 02 38 25

OCTOBER 22
U.S.C.G.S.
45.0N, 150.2E
Kurile Islands
H = 03 17 15.2
h 45 km
MAG 5.2 (CGS)
Alert
eP 03 26 18
Edmonton
eP 03 27 11 c
Mould Bay
eP 03 25 44
Ottawa
eP 03 29 26
Resolute
eP 03 26 29
Schefferville
eP 03 28 58
Shawinigan Falls
eP 03 29 (27)
Yellowknife
eP 03 28 34

OCTOBER 22
U.S.C.G.S.
43.9N, 150.3E
Kurile Islands
H = 03 25 38.8
h 50 km
MAG 4.9 (CGS)
Alert
eP 03 34 50

Edmonton
iP 03 35 40 c
Mould Bay
eP 03 34 13
Resolute
eP 03 35 00

OCTOBER 22
U.S.C.G.S.
51.0N, 179.4E
Rat Islands
Aleutian Islands
H = 04 29 11.7
h 55 km
MAG 4.7 (CGS)
Alert
eP 04 37 09
Edmonton
iP 04 36 41 c
Mould Bay
eP 04 35 55 (d)
Victoria
eP 04 36 11
Yellowknife
eP 04 36 10

OCTOBER 22
U.S.C.G.S.
44.5N, 149.1E
Kurile Islands
H = 04 49 17.0
h 33 km
MAG 4.5 (CGS)
Edmonton
eP 04 59 21
Mould Bay
eP 04 57 51
Resolute
eP 04 58 37

DOMINION OBSERVATORIES

OCTOBER 22
71.4°N, 73.3°W
Near East Coast of
Baffin Isle. NWT
H = 08 32 04
MAG 4.0
Frobisher
Pn taken as 0' 00"
Sn - Pn 01' 21"
Lg - Sn ca 41"
Resolute
Lg 08 35 52
D = 829 km

OCTOBER 22
Mould Bay
eP 09 20 (20)

OCTOBER 22
U.S.C.G.S.
44.2N, 150.3E
Kurile Islands
H = 10 18 14.5
h 50 km
MAG 4.9 (CGS)
Alert
eP 10 27 24 d
Edmonton
eP 10 28 14
Mould Bay
eP 10 26 (49)
Resolute
eP 10 27 34

OCTOBER 22
U.S.C.G.S.
43.6N, 148.1E
Kurile Islands
H = 10 26 28.5
h 50 km
MAG 4.3 (CGS)
Resolute
eP 10 35 56

OCTOBER 22
U.S.C.G.S.
45.1N, 151.8E
Kurile Islands
H = 12 19 17.5
h 20 km
MAG 4.3 (CGS)
Mould Bay
eP 12 27 (46)

OCTOBER 22
Yellowknife
eP 13 07 57

OCTOBER 22
U.S.C.G.S.
44.5N, 149.8E
Kurile Islands
H = 13 27 05.2
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 13 35 (38)
Resolute
eP 13 36 25

OCTOBER 22
U.S.C.G.S.
43.5N, 150.4E
Kurile Islands
H = 16 00 43.8
h 105 km
MAG 4.0 (CGS)
Resolute
eP 16 10 03

OCTOBER 22
Resolute
eP 18 38 26

OCTOBER 22
U.S.C.G.S.
45.3N, 149.4E
Kurile Islands
H = 19 14 14.0
h 33 km
MAG 4.5 (CGS)
Resolute
eP 19 23 29

OCTOBER 22
U.S.C.G.S.
44.3N, 152.3E
Kurile Islands
H = 19 26 14.0
h 33 km
MAG 4.6 (CGS)
Mould Bay
eP 19 34 45
Resolute
eP 19 35 31

OCTOBER 22
Resolute
eP 19 55 59

OCTOBER 22
U.S.C.G.S.
45.7N, 151.6E
Kurile Islands
H = 00 06 09.0
h 20 km
MAG 5.2 (CGS)
Alert
eP 00 15 10 (c)
Mould Bay
eP 00 14 32 (c)

OCTOBER 23
U.S.C.G.S.
45.6N, 150.1E
Kurile Islands
H 02 38 18.6
h 25
MAG 4.7 (CGS)
Mould Bay
eP 02 46 45

SEISMOLOGICAL BULLETIN - 1963

Resolute
eP 02 47 31

OCTOBER 23
U.S.C.G.S.
45.0N, 151.2E
Kurile Islands
H = 05 32 33.9
h 45 km
MAG 4.3 (CGS)
Resolute
eP 05 41 47

OCTOBER 23
U.S.C.G.S.
44.3N, 149.4E
Kurile Islands
H = 08 15 15.4
h 50 km
MAG 4.5 (CGS)
Mould Bay
eP 08 23 49
Resolute
eP 08 24 35

OCTOBER 23
Mould Bay
eP 08 50 (26)

OCTOBER 23
U.S.C.G.S.
41.2N, 144.2E
East of Honshu, Japan
H = 09 47 08.1
h 50 km
MAG 5.4 (CGS)
Alert
iP 09 56 (41) d
Mould Bay
iP 09 56 13 d
Ottawa
eP 09 59 46
Resolute
eP 09 56 56 d
Victoria
eP 09 57 24

OCTOBER 23
U.S.C.G.S.
44.4N, 149.5E
Kurile Islands
H = 11 18 18.0
h 45 km
MAG 4.6 (CGS)
Mould Bay
eP 11 26 51
Resolute
eP 11 27 38

OCTOBER 23
Canadian Arctic
H = 13 33 43
MAG 2.1
Mould Bay
P₁ 13 34 06
S₁ 13 34 23.5
D = 143 km

OCTOBER 23
U.S.C.G.S.
19.4N, 155.5W
Hawaii Isle, Hawaii
H = 20 24 05.5
Alert
e(P) 20 35 31
Mould Bay
eP 20 34 13
Resolute
eP 20 34 43
Shawinigan Falls
eP 20 35 30
Victoria
eP 20 31 35
Yellowknife
eP 20 33 12

OCTOBER 23
U.S.C.G.S.
44.3N, 150.7E
Kurile Islands
H = 21 18 14.0
h 40 km
MAG 4.3 (CGS)
Mould Bay
eP 21 26 48
Resolute
eP 21 27 34

OCTOBER 23
Alert
eP 21 38 49 (c)

OCTOBER 23
Mould Bay
eP 21 41 04

OCTOBER 23
U.S.C.G.S.
44.0N, 151.3E
Kurile Islands
H = 22 11 13.1
h 20 km
MAG 4.7 (CGS)
Mould Bay
eP 22 19 50 (d)
Resolute
eP 22 20 36

OCTOBER 24
U.S.C.G.S.
44.5N, 150.3E
Kurile Islands
H = 01 06 25.9
h 45 km
MAG 5.0 (CGS)
Alert
eP 01 15 32 c
Mould Bay
eP 01 14 57
Resolute
eP 01 15 42

DOMINION OBSERVATORIES

Shawinigan Falls
eP 01 18 40
Victoria
eP 01 16 10
Yellowknife
eP 01 15 (44)

OCTOBER 24
U.S.C.G.S.
4.3N, 78.4W
Near West Coast of
Colombia
H = 03 44 18.5
h 38 km
MAG 5.0 (CGS)
Mould Bay
iP 06 55 58
Ottawa
eP 06 51 59 d
Schefferville
eP 06 53 20
Yellowknife
eP 06 54 47 c

OCTOBER 24
U.S.C.G.S.
19.2N, 121.3E
Babuyan Islands,
Philippine Islands
H = 06 57 24.3
h 72 km
MAG 4.8 (CGS)
Mould Bay
eP 07 09 16
Resolute
eP 07 09 45
Yellowknife
eP 07 10 05

OCTOBER 24
U.S.C.G.S.
4.9S, 102.9E
Off South Coast of
Sumatra
H = 07 26 23.9
h 50 km
MAG 6.1 (CGS)
Alert
e(P) 07 40 (15)
Halifax
eP 07 45 47
London
eP 07 45 47
Ottawa
eP 07 45 48
Scarborough
eP 07 45 50
i 48 51
Schefferville
eP 07 45 29
Shawinigan Falls
eP 07 45 (45)
Yellowknife
iP 07 45 00

OCTOBER 24
U.S.C.G.S.
Resolute
eP 07 44 (47)

OCTOBER 24
U.S.C.G.S.
58.1N, 144.7W
Gulf of Alaska
H = 13 01 36.0
h 33 km
MAG 3.9 (CGS)
Mould Bay
eP 13 06 14

OCTOBER 24
U.S.C.G.S.
44.0N, 150.8E
Kurile Islands
H = 13 45 09.9
h 45 km
MAG 5.0 (CGS)
Resolute
eP 13 54 31

OCTOBER 24
U.S.C.G.S.
44.8N, 149.9E
Kurile Islands
H = 15 24 06.0
h 55 km
MAG 4.5 (CGS)
Mould Bay
eP 15 32 36
Resolute
eP 15 33 22

OCTOBER 24
U.S.C.G.S.
38.4N, 70.3E
Tadzhik S.S.R.
H = 19 03 31.0
h 183 km
Mould Bay
eP 19 13 55

OCTOBER 24
U.S.C.G.S.
28.3N, 128.5E
Ryukyu Islands
H = 19 19 10.2
h 33 km
MAG 5.1 (CGS)
Mould Bay
eP 19 30 06 c
Resolute
eP 19 30 40
Yellowknife
eP 19 30 59

SEISMOLOGICAL BULLETIN - 1933

OCTOBER 24
U.S.C.G.S.
44.4N, 149.7E
Kurile Islands
H = 20 18 12.7
h 40 km
MAG 5.0 (CGS)
Alert
eP 20 27 20
Mould Bay
eP 20 26 46
Resolute
eP 20 27 31

OCTOBER 24
Resolute
eP 20 46 (20)

OCTOBER 25
U.S.C.G.S.
44.7N, 149.5E
Kurile Islands
H = 01 08 35.5
h 50 km
MAG 4.0 (CGS)
Mould Bay
eP 01 17 06 (d)
Resolute
eP 01 17 52

OCTOBER 25
Resolute
eP 01 47 37

OCTOBER 25
U.S.C.G.S.
52.0N, 174.8E
Near Islands,
Aleutian Islands
H = 06 02 06.6
Alert
eP 03 09 57 c
Mould Bay
eP 06 08 49
Resolute
eP 06 09 (42)

Schefferville
eP 06 12 19

OCTOBER 25
Resolute
eP 08 02 (04)

OCTOBER 25
U.S.C.G.S.
43.7N, 150.8E
Kurile Islands
H = 08 08 12.1
h 45 km
MAG 4.4 (CGS)
Resolute
eP 08 17 (36)

OCTOBER 25
51.4°N, 61.9°W
About 80 miles N. of
Natashquan, P.Q.
H = 08 49 39
MAG 3.3
Schefferville
e 08 50 48
S₁ 08 51 54
D = 478 km
Sept-Iles
P₁ 08 50 33
S₁ 08 51 14
D = 336 km

OCTOBER 25
U.S.C.G.S.
44.5N, 150.2E
Kurile Islands
H = 12 33 05.8
h 45 km
MAG 4.2 (CGS)
Mould Bay
eP 12 41 37
Resolute
eP 12 42 24

OCTOBER 25
Resolute
eP 12 54 (21)

OCTOBER 25
U.S.C.G.S.
45.3N, 150.2E
Kurile Islands
H = 10 17 57.1
h 40 km
MAG 5.0 (CGS)
Alert
eP 10 26 59 d
Mould Bay
eP 10 26 23 d
Resolute
eP 10 27 10
Schefferville
eP 10 29 39

OCTOBER 25
U.S.C.G.S.
44.0N, 151.1E
Kurile Islands
H = 11 12 57.3
h 45 km
MAG 4.6 (CGS)
Resolute
eP 11 22 (17)

OCTOBER 25
U.S.C.G.S.
45.1N, 149.3E
Kurile Islands
H = 11 57 55.3
h 70 km
MAG 4.1 (CGS)
Resolute
eP 12 07 (11)

OCTOBER 25
U.S.C.G.S.
44.5N, 150.2E
Kurile Islands
H = 12 33 05.8
h 45 km
MAG 4.2 (CGS)
Mould Bay
eP 12 41 37
Resolute
eP 12 42 24

OCTOBER 25
Resolute
eP 12 54 (21)

OCTOBER 25
U.S.C.G.S.
44.3N, 149.7E
Kurile Islands
H = 16 41 46.0
h 20 km
MAG 4.3 (CGS)
Mould Bay
eP 16 50 23



DOMINION OBSERVATORIES

Resolute
eP 16 51 09

OCTOBER 25
U.S.C.G.S.
12.3N, 144.5E
Mariana Islands
H = 19 58 58.3
h 29 km
MAG 5.4 (CGS)
Alert
eP 20 11 29 c
Banff
eP 20 11 39
Mould Bay
eP 20 11 03
Resolute
eP 20 11 36
Yellowknife
eP 20 11 14

OCTOBER 25
71.4N, 73.3W
Near East Coast of
Baffin Island, NWT
H = 20 32 24
MAG 4.4
Frobisher
Pn taken as 0' 00"
Sn - Pn 1' 21"
Lg - Sn 41"
D = 820 km
Resolute
Pn 20 34 10
Sn 20 35 26
Lg 20 36 10
D - 829 km
Schefferville
Lg 20 40 48
D = 1810 km

OCTOBER 25
U.S.C.G.S.
36.9N, 95.2E
Tsinghai Province,
China
H = 22 49 42.0
h 33 km
MAG 5.1 (CGS)
Alert
i 22 59 53
Mould Bay
eP 23 00 (18)

OCTOBER 25
U.S.C.G.S.
13.4N, 144.1E
Mariana Islands
H = 23 21 42.7
h 57 km
MAG 4.7 (CGS)
Alert
eP 23 34 07 (c)

OCTOBER 26
U.S.C.G.S.
44.5N, 150.1E
Kurile Islands
H = 03 55 39.7
h 55 km
MAG 5.1 (CGS)
Alert
eP 04 04 45
Halifax
eP 04 08 19
Mould Bay
eP 04 04 10
Ottawa
eP 04 07 54
Resolute
eP 04 04 56
Yellowknife
eP 04 05 02

OCTOBER 26
Mould Bay
eP 04 23 45

OCTOBER 26
U.S.C.G.S.
43.7N, 150.5E
Kurile Islands
H = 05 01 31.5
h 40 km
MAG 5.1 (CGS)
Resolute
eP 05 10 55

OCTOBER 26
U.S.C.G.S.
44.5N, 149.8E
Kurile Islands
H = 05 59 44.2
h 60 km
MAG 5.1 (CGS)
Alert
eP 06 08 49
Mould Bay
eP 06 08 14
Resolute
eP 06 09 01
Schefferville
eP 06 11 28
Shawinigan Falls
eP 06 11 58
Yellowknife
eP 06 09 (09)

OCTOBER 26
Mould Bay
eP 06 30 29

OCTOBER 26
Resolute
eP 06 31 15

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 26
U.S.C.G.S.
44.8N, 149.6E
Kurile Islands
H = 06 27 53.8
h 55 km
MAG 4.5 (CGS)
Mould Bay
eP 06 36 24

OCTOBER 26
U.S.C.G.S.
44.7N, 149.6E
Kurile Islands
H = 06 55 51.0
h 60 km
MAG 4.0 (CGS)
Resolute
eP 07 05 08

OCTOBER 26
U.S.C.G.S.
51.2N, 177.5W
Andreanof Islands,
Aleutian Islands
H = 07 24 28.7
h 33 km
MAG 4.6 (CGS)
Mould Bay
eP 07 31 07 (c)

OCTOBER 26
U.S.C.G.S.
44.4N, 149.5E
Kurile Islands
H = 10 32 37.0
h 55 km
MAG 4.3 (CGS)
Resolute
eP 10 41 56

OCTOBER 26
U.S.C.G.S.
44.7N, 149.7E
Kurile Islands
H = 11 21 47.6
h 55 km
MAG 5.4 (CGS)
Alert
eP 11 30 52
Banff
eP 11 31 47
Halifax
eP 11 34 27
Mould Bay
eP 11 30 18 (c)
Resolute
eP 11 31 04
Schefferville
eP 11 33 32
Victoria
eP 11 31 27
Yellowknife
eP 11 31 09

OCTOBER 26
U.S.C.G.S.
44.6N, 149.8E
Kurile Islands
H = 11 31 53.0
h 55 km
MAG 5.1 (CGS)
Alert
eP 11 40 59 (c)
Mould Bay
eP 11 40 24
Resolute
eP 11 41 10
Yellowknife
eP 11 41 (12)

OCTOBER 26
Mould Bay
eP 12 19 55

OCTOBER 26
U.S.C.G.S.
15.8S, 174.0W
Tonga Islands
H = 12 33 50.1
h 115 km
MAG 5.5 (CGS)
Mould Bay
eP 12 47 11 d

OCTOBER 26
U.S.C.G.S.
44.6N, 149.7E
Kurile Islands
H = 14 44 49.2
h 60 km
MAG 4.2 (CGS)
Mould Bay
eP 14 53 20
Resolute
eP 14 54 07

OCTOBER 26
Yellowknife
eP 16 04 (03)

OCTOBER 26
Mould Bay
eP 17 07 14 c

OCTOBER 26
Yellowknife
eP 17 05 (06)

OCTOBER 26
U.S.C.G.S.
44.1N, 148.9E
Kurile Islands
H = 19 05 58.1
h 45 km
MAG 4.5 (CGS)
Resolute
eP 19 15 (19)
Schefferville
eP 19 17 46 d

DOMINION OBSERVATORIES

OCTOBER 26
Banff
eP 20 23 36

OCTOBER 26
Resolute
eP 22 14 21

OCTOBER 26
U.S.C.G.S.
5.2S, 152.0E
New Britain
H = 22 41 29.8
h 73 km
MAG 5.9 (CGS)
Mould Bay
eP 22 54 44 d
Ottawa
eP 23 00 18

OCTOBER 26
U.S.C.G.S.
43.8N, 151.2E
Kurile Islands
H = 23 58 57.8
h 33 km
MAG 5.0 (CGS)
Mould Bay
eP 24 07 33

OCTOBER 27
Canadian Arctic
H = 00 16 19.8
MAG 2.4
Resolute
P₁ 00 16 45.5
S₁ 00 17 05.0
D = 160 km

OCTOBER 27
Canadian Arctic
H = 00 55 58.9
MAG 2.2
Resolute
P₁ 00 57 37
S₁ 00 58 06
D = 238 km

OCTOBER 27
Mould Bay
eP 07 51 24
Resolute
eP 07 52 10

OCTOBER 27
U.S.C.G.S.
5.6N, 79.4W
Off West Coast of
Colombia
H = 12 02 57.6
h 32 km
MAG 4.0 (CGS)
Ottawa
eP 12 10 30 c

OCTOBER 27
U.S.C.G.S.
44.5N, 149.4E
Kurile Islands
H = 19 53 50.0
h 65 km
MAG 4.0 (CGS)
Resolute
eP 20 03 08

OCTOBER 27
U.S.C.G.S.
44.5N, 150.1E
Kurile Islands
H = 20 05 38.1
h 50 km
MAG 5.2 (CGS)
Alert
eP 20 14 43
Frobisher
iP 20 16 32 c
Ottawa
eP 20 17 51 d
Resolute
eP 20 14 54
Schefferville
eP 20 17 22
Shawinigan Falls
eP 20 17 52

OCTOBER 28
U.S.C.G.S.
13.6S, 76.9W
Central Peru
H = 02 50 30.1
h 38 km
MAG 4.1 (CGS)
Mould Bay
eP 03 03 42
Shawinigan Falls
eP 03 00 36

OCTOBER 28
U.S.C.G.S.
45.4N, 151.3E
Kurile Islands
H = 04 58 42.9
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 05 07 05
Resolute
eP 05 07 (52)

OCTOBER 28
U.S.C.G.S.
44.6N, 149.6E
Kurile Islands
H = 10 18 10.3
h 50 km
MAG 4.2 (CGS)
Mould Bay
eP 10 26 42 (c)
Resolute
eP 10 27 28

OCTOBER 28
U.S.C.G.S.
52.8N, 159.8E
Off East Coast of
Kamchatka
H = 12 03 19.8
h 33 km
MAG 5.7 (CGS)
Alert
eP 12 11 20 c

SEISMOLOGICAL BULLETIN - 1963

Frobisher
eP 12 13 08
Halifax
iP 12 15 06 d
London
iP 12 14 35 d
Mould Bay
eP 12 10 31 (c)
Ottawa
eP 12 14 34
Resolute
eP 12 11 22
Schefferville
eP 12 14 04 d
Yellowknife
iP 12 11 22

OCTOBER 28
U.S.C.G.S.
45.3N, 151.3E
Kurile Islands
H = 14 13 31.6
h 45 km
MAG 4.1 (CGS)
Mould Bay
eP 14 21 (54)

OCTOBER 28
U.S.C.G.S.
45.7N, 150.3E
Kurile Islands
H = 14 36 20.0
h 55 km
MAG 4.5 (CGS)
Mould Bay
eP 14 44 41
Resolute
eP 14 45 28

OCTOBER 28
U.S.C.G.S.
45.0N, 151.7E
Kurile Islands
H = 18 05 09.7
h 60 km
MAG 4.3 (CGS)
Mould Bay
eP 18 13 (35)
Resolute
eP 18 14 (25)

OCTOBER 28
U.S.C.G.S.
44.8N, 149.6E
Kurile Islands
H = 20 36 56.0
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 20 45 25 c
Resolute
eP 20 46 11

OCTOBER 28
U.S.C.G.S.
49.9N, 154.7E
Kurile Islands
H = 21 48 24.1
h 105 km
MAG 4.8 (CGS)
Alert
eP 21 56 41
Frobisher
iP 21 58 31 d
Mould Bay
eP 21 56 00 d
Resolute
eP 21 56 49
Schefferville
iP 21 59 25 d
Shawinigan Falls
eP 21 59 58 d

OCTOBER 29
U.S.C.G.S.
44.6N, 151.2E
Kurile Islands
H = 02 23 53.6
h 45 km
MAG 4.6 (CGS)
Mould Bay
eP 02 32 (25)
Resolute
eP 02 33 10

OCTOBER 29
U.S.C.G.S.
40.4N, 124.7W
Near Coast of Humboldt
County, California
H = 07 01 42.7
h 38 km
MAG 4.7 (CGS)
Alert
e(P) 07 10 09
Mould Bay
eP 07 08 42
Resolute
eP 07 08 50
Schefferville
eP 07 09 19 c

OCTOBER 29
U.S.C.G.S.
45.3N, 150.7E
Kurile Islands
H = 07 09 00.0
h 55 km
MAG 4.5 (CGS)
Resolute
eP 07 18 (15)

DOMINION OBSERVATORIES

OCTOBER 29
U.S.C.G.S.
24.8S, 68.6W
Northern Chile
H = 15 49 10.3
h 67 km
MAG 5.0 (CGS)
Schefferville
eP 16 01 10 d

OCTOBER 29
Alert
i 22 32 46
Mould Bay
eP 22 33 06
Resolute
eP 22 33 (46)

OCTOBER 30
U.S.C.G.S.
44.7N, 150.0E
Kurile Islands
H = 00 35 40.4
h 55 km
MAG 4.3 (CGS)
Resolute
eP 00 44 57

OCTOBER 30
U.S.C.G.S.
4.8S, 77.9W
Northern Peru
H = 01 17 31.1
h 20 km
MAG 5.3 (CGS)
Alert
iP 01 30 19 c
Banff
eP 01 28 08
Mould Bay
iP 01 30 04
Ottawa
eP 01 26 25
Resolute
eP 01 29 39

Schefferville
eP 01 27 39
Victoria
eP 01 28 20 (c)
Yellowknife
eP 01 28 57

OCTOBER 30
U.S.C.G.S.
44.9N, 149.1E
Kurile Islands
H = 09 28 29.9
h 45 km
MAG 4.1 (CGS)
Resolute
eP 09 37 46

OCTOBER 30
U.S.C.G.S.
44.6N, 150.2E
Kurile Islands
H = 10 51 45.9
h 55 km
MAG 4.4 (CGS)
Mould Bay
eP 11 00 (15)
Resolute
eP 11 01 (01)

OCTOBER 30
U.S.C.G.S.
44.8N, 150.2E
Kurile Islands
H = 15 21 07.2
h 45 km
MAG 4.5 (CGS)
Alert
e(P) 15 30 12
Mould Bay
eP 15 29 (37)
Resolute
eP 15 30 23

OCTOBER 30
U.S.C.G.S.
43.5N, 150.5E
Kurile Islands
H = 22 42 27.0
h 33 km
MAG 4.4 (CGS)
Resolute
eP 22 51 (56)

OCTOBER 31
U.S.C.G.S.
21.8S, 175.0E
Tonga Islands
H = 03 17 42.0
h 33 km
MAG 5.2 (CGS)
Victoria
eP 03 30 09
Yellowknife
eP 03 31 10

OCTOBER 31
Mould Bay
eP 10 08 50 c

OCTOBER 31
Mould Bay
eP 15 03 15

OCTOBER 31
U.S.C.G.S.
44.2N, 150.0E
Kurile Islands
H = 17 48 45.6
h 70 km
MAG 4.4 (CGS)
Resolute
eP 17 58 04

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 31
U.S.C.G.S.
37.2N, 70.0E
Hindu Kush Region
H = 20 10 54.2
h 105 km
MAG 4.5 (CGS)
Mould Bay
eP 20 21 34 (c)

OCTOBER 31
77.4°N, 118.7°W
Near Cape Andreasen,
Prince Patrick Isle, NWT
H = 22 07 32.6
MAG 2.2
Mould Bay
P₁ 22 07 51
S₁ 22 08 05
D = 115 km

OCTOBER 31
77.4°N, 118.7°W
Near Cape Andreasen,
Prince Patrick Isle, NWT
H = 20 52 27.6
MAG 1.8
Mould Bay
P₁ 20 52 46
S₁ 20 53 00
D = 115 km

OCTOBER 31
77.4°N, 118.7°W
Near Cape Andreasen,
Prince Patrick Isle, NWT
H = 21 11 32.6
MAG 3.2
Mould Bay
P₁ 21 11 51
S₁ 21 12 05
D = 115 km
Resolute
P_n 21 13 05
S_n 21 14 16
D = 700 km

OCTOBER 31
Resolute
eP 21 13 (05)

OCTOBER 31
77.4°N, 118.7°W
Near Cape Andreasen,
Prince Patrick Isle, NWT
H = 22 50 25.6
MAG 3.0
Mould Bay
P₁ 22 50 44
S₁ 22 50 58
D = 115 km
Resolute
L_g 22 53 04
D = 700 km

NOVEMBER 1
U.S.C.G.S.
5.5N, 82.6W
South of Panama
H = 02 26 01.2
h 35 km
MAG 4.6 (CGS)
Mould Bay
eP 02 37 32 c

NOVEMBER 1
U.S.C.G.S.
51.7N, 159.8E
Near East Coast of
Kamchatka
H = 03 52 25.9
h 33 km
MAG 4.4 (CGS)
Alert
eP 04 00 34 c

Mould Bay
eP 03 59 46 c
Resolute
eP 04 00 37

NOVEMBER 1
77.4°N, 118.7°W
Near Cape Andreasen,
Prince Patrick Isle, NWT
H = 04 47 26.6
MAG 2.4
Mould Bay
P₁ 04 47 45
S₁ 04 47 59
D = 115 km

NOVEMBER 1
U.S.C.G.S.
14.6N, 53.6E
Gulf of Aden
H = 07 02 41.7
h 33 km
MAG 5.1 (CGS)
Alert
eP 07 14 44
Mould Bay
eP 07 15 35

NOVEMBER 1
Mould Bay
eP 11 15 53

NOVEMBER 1
U.S.C.G.S.
13.6N, 90.1W
Off Coast of El Salvador
H = 11 34 55.9
h 128 km
MAG 4.4 (CGS)
Resolute
eP 11 44 58

NOVEMBER 1
Mould Bay
eP 21 50 20

DOMINION OBSERVATORIES

NOVEMBER 1
U.S.C.G.S.
44.9N, 148.9E
Kurile Islands
H = 22 41 23.8
h 60 km
MAG 5.5 (CGS)
Alert
eP 22 50 26
Banff
eP 22 51 22
Frobisher
eP 22 52 16 c
Mould Bay
eP 22 49 52
Ottawa
eP 22 53 36
Resolute
eP 22 50 38 c
Schefferville
eP 22 53 07
Yellowknife
eP 22 50 43

NOVEMBER 2
H = 00 30 25
MAG 2.3
Victoria
iP 00 30 33.0
iS 00 30 39.3
D = 52 km

NOVEMBER 2
London
eP 03 18 36

NOVEMBER 2
Resolute
eP 06 32 (14)

NOVEMBER 2
U.S.C.G.S.
44.6N, 151.2E
Kurile Islands
H = 09 17 18.2
h 50 km
MAG 4.6 (CGS)
Alert
eP 09 26 24
Mould Bay
eP 09 25 47
Resolute
eP 09 26 34

NOVEMBER 2
U.S.C.G.S.
51.5N, 179.9W
Andreanof Islands,
Aleutian Islands
H = 10 13 02.3
h 33 km
MAG 4.1 (CGS)
Mould Bay
eP 10 19 46

NOVEMBER 2
U.S.C.G.S.
12.5S, 74.7W
Southern Peru
H = 16 07 13.1
h 105 km
MAG 4.3 (CGS)
Mould Bay
eP 16 20 16

NOVEMBER 2
Mould Bay
eP 16 49 11
Resolute
eP 16 50 (13)

NOVEMBER 2
U.S.C.G.S.
44.0N, 150.5E
Kurile Islands
H = 17 53 27.2
h 50 km
MAG 5.0 (CGS)
Alert
eP 18 02 37 d
Mould Bay
eP 18 02 (01)
Resolute
eP 18 02 47

NOVEMBER 2
Ottawa
eP 19 24 08

NOVEMBER 3
Yellowknife
iP 03 01 31

NOVEMBER 3
U.S.C.G.S.
3.5S, 77.8W
Peru - Ecuador Border
H = 03 10 12.7
Alert
eP 03 22 52 (d)
Frobisher
iP 03 21 05 d
Halifax
iP 03 19 04 (c)
Mould Bay
eP 03 22 36 (c)
Ottawa
eP 03 18 54
Port Hardy
eP 03 21 13.5
Resolute
eP 03 22 13
Scarboro
eP 03 18 41 (c)
Schefferville
eP 03 20 08
Victoria
eP 03 20 53

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NOVEMBER 3
Schefferville
e(P) 03 49 39 d

NOVEMBER 3
U.S.C.G.S.
49.5N, 155.6E
Southern Tip of Kamchatka
H = 04 37 25.2
h 50 km
MAG 4.9 (CGS)
Alert
e(P) 04 45 51
Mould Bay
eP 04 45 08 c
Resolute
eP 04 45 58

NOVEMBER 3
Mould Bay
eP 06 10 33

NOVEMBER 3
U.S.C.G.S.
15.6S, 73.3W
Southern Peru
H = 07 38 10.7
h 112 km
MAG 4.8 (CGS)
Mould Bay
eP 07 51 25
Schefferville
eP 07 49 13 c

NOVEMBER 3
U.S.C.G.S.
3.7S, 78.3W
Near Coast of Ecuador
H = 12 02 28.3
Mould Bay
eP 12 14 51

NOVEMBER 3
U.S.C.G.S.
39.2N, 21.1E
Near West Coast
of Greece
H = 14 35 59.4
Mould Bay
eP 14 46 (20)

NOVEMBER 3
U.S.C.G.S.
45.3N, 150.1E
Kurile Islands
H = 19 22 53.6
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 19 31 18 (c)
Resolute
eP 19 32 05

NOVEMBER 3
U.S.C.G.S.
44.3N, 149.2E
Kurile Islands
H = 22 54 36.6
h 45 km
MAG 4.3 (CGS)
Mould Bay
eP 23 03 12 (c)
Resolute
eP 23 03 57

NOVEMBER 4
U.S.C.G.S.
15.1°S, 167.3E
New Hebrides Islands
H = 01 14 32.8
h 154 km
MAG 5.8 (CGS)
Banff
eP 01 27 37
Ottawa
eP' 01 33 04
Schefferville
eP' 01 33 11

Yellowknife
eP 01 27 52

NOVEMBER 4
Banff
eP 01 31 42

NOVEMBER 4
Yellowknife
iP 01 35 32

NOVEMBER 4
Yellowknife
iP 01 46 45

NOVEMBER 4
U.S.C.G.S.
6.8°S, 129.6E
Banda Sea
H = 01 17 08.9
h 80 km
Alert
eP 01 31 05
Banff
eP' 01 35 33
Halifax
iP' 01 36 26 (c)
London
eP' 01 36 12
Mould Bay
eP 01 30 52
Ottawa
eP' 01 36 12
Resolute
eP 01 31 20
Scarboro
i 01 36 24
Shawinigan Falls
eP' 01 36 (17)
Victoria
eP 01 31 20
Yellowknife
eP 01 31 20



DOMINION OBSERVATORIES

NOVEMBER 4
Schefferville
e(P) 02 58 50

NOVEMBER 4
Schefferville
e(P) 04 05 27

NOVEMBER 4
Schefferville
eP 05 45 13

NOVEMBER 4
U.S.C.G.S.
44.5N, 150.6E
Kurile Islands
H = 06 09 19.8
h 40 km
MAG 4.2 (CGS)
Mould Bay
eP 06 17 51 (d)
Resolute
eP 06 18 37

NOVEMBER 4
U.S.C.G.S.
44.0N, 149.9E
Kurile Islands
H = 08 06 15.1
h 33 km
MAG 4.2 (CGS)
Mould Bay
eP 08 14 (51)
Resolute
eP 08 15 37

NOVEMBER 4
Yellowknife
eP 10 50 (20)

NOVEMBER 4
U.S.C.G.S.
36.3N, 71.3E
Hindu Kush
H = 21 12 11.5
h 148 km
MAG 4.7 (CGS)
Mould Bay
iP 21 22 53 d

NOVEMBER 4
Schefferville
eP 22 39 15

NOVEMBER 5
Port Hardy
eP 03 53 54.0

NOVEMBER 5
Canadian Arctic
H = 04 24 28.6
MAG 1.6
Alert
P1 04 24 47
S1 04 25 01
D = 115 km

NOVEMBER 5
U.S.C.G.S.
43.5N, 150.9E
Kurile Islands
H = 09 18 42.6
h 40 km
MAG 4.6 (CGS)
Mould Bay
eP 09 27 (24)
Resolute
eP 09 28 06

NOVEMBER 5
Resolute
eP 11 19 38

NOVEMBER 5
Mould Bay
eP 14 13 44 c

Resolute
eP 14 14 01
Yellowknife
eP 14 13 44

NOVEMBER 5
71.4°N, 73.3°W
Near Coast of Baffin Isle.
H = 16 07 17
MAG 4.0
Frobisher
Pn 16 09 02
Sn 16 10 24
Lg 16 11 05
D = 820 km
Resolute
Lg 16 11 05
D = 829 km

NOVEMBER 5
Mould Bay
eP 19 06 (59)

NOVEMBER 5
U.S.C.G.S.
44.6N, 148.8E
Kurile Islands
H = 20 59 26.3
h 33 km
MAG 4.1 (CGS)
Resolute
eP 21 08 46

NOVEMBER 5
U.S.C.G.S.
55.5S, 28.4W
Sandwich Islands Region
H = 23 10 54.0
h 33 km
Mould Bay
eP' 23 30 21

NOVEMBER 6
Mould Bay
eP 00 06 (13)
Resolute
eP 00 06 40

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 6
Mould Bay
eP 01 13 26

NOVEMBER 6
U.S.C.G.S.
2.6°S, 138.4E
Western New Guinea
H = 02 13 16.8
h 33 km
MAG 5.7 (CGS)
Alert
eP 02 26 59
Mould Bay
eP 02 26 36
Ottawa
eP' 02 32 (23)
Resolute
eP 02 27 (10)
Scarboro
eP' 02 34 (16)(d)
Victoria
eP 02 26 48
Yellowknife
e 02 27 (05)

NOVEMBER 6
U.S.C.G.S.
2.2°S, 138.7°E
Western New Guinea
H = 03 00 12.2
h 43 km
MAG 5.3 (CGS)
Mould Bay
eP 03 13 31

NOVEMBER 6
Schefferville
eP 09 23 25

NOVEMBER 6
U.S.C.G.S.
46.3N, 154.8E
Near West Coast of
Kamchatka
H = 09 24 49.2
h 33 km
MAG 5.4 (CGS)
Alert
eP 09 33 (41)
Banff
iP 09 34 19
Coppermine
iP 09 33 28 d
Frobisher
iP 09 35 27 d
London
eP 09 36 47
Mould Bay
iP 09 33 00 d
Resolute
eP 09 33 48 d
Schefferville
eP 09 36 19 d
Yellowknife
iP 09 33 47 c

NOVEMBER 6
Resolute
eP 13 58 16

NOVEMBER 6
Resolute
eP 15 41 25

NOVEMBER 6
Resolute
eP 23 20 12

NOVEMBER 7
Mould Bay
eP 00 00 (15)

NOVEMBER 7
Resolute
eP 00 06 40

NOVEMBER 7
U.S.C.G.S.
42.7N, 149.3E
Kurile Islands
H = 04 46 53.1
h 30 km
MAG 4.1 (CGS)
Mould Bay
eP 00 55 34
Resolute
eP 00 56 19

NOVEMBER 7
Mould Bay
eP 02 14 39 (d)
Resolute
eP 02 14 (56)

NOVEMBER 7
U.S.C.G.S.
44.8N, 150.1E
Kurile Islands
H = 03 24 59.3
h 40 km
MAG 4.0 (CGS)
Mould Bay
eP 03 33 (30)
Resolute
eP 03 34 16

NOVEMBER 7
H = 05 02 45
MAG 2.5
Port Hardy
eP 05 03 13.4
eS 05 03 35.5
D = 182 km

NOVEMBER 7
U.S.C.G.S.
36.5N, 141.7E
Off East Coast of Honshu
H = 06 12 22.8
Mould Bay
eP 06 22 05
Resolute
eP 06 22 46

DOMINION OBSERVATORIES

NOVEMBER 7
 U.S.C.G.S.
 44.2N, 149.7E
 Kurile Islands
 H = 09 03 53.4
 h 45 km
 MAG 4.0 (CGS)
 Mould Bay
 eP 09 12 (33)
 Resolute
 eP 09 13 19

NOVEMBER 7
 U.S.C.G.S.
 44.2N, 151.1E
 Kurile Islands
 H = 09 22 53.3
 h 50 km
 MAG 4.4 (CGS)
 Alert
 eP 09 32 02 (c)
 Mould Bay
 eP 09 31 24
 Resolute
 eP 09 32 11 c

NOVEMBER 7
 Banff
 eP 13 05 12

NOVEMBER 7
 U.S.C.G.S.
 14.1N, 146.2E
 Mariana Islands Region
 H = 12 55 25.6
 h 48 km
 MAG 5.0 (CGS)
 Alert
 eP 13 07 46 c
 Coppermine
 eP 13 07 32
 Frobisher
 eP 13 09 51
 Mould Bay
 eP 13 07 17 c

Resolute
 eP 13 07 51
 Yellowknife
 eP 13 07 41
 i 13 08 40

NOVEMBER 7
 Coppermine
 eP 13 15 21

NOVEMBER 7
 Canadian Arctic
 H = 15 23 02.1
 MAG 1.5
 Resolute
 P₁ 15 23 10
 S₁ 15 23 16
 D = 49 km

NOVEMBER 7
 U.S.C.G.S.
 44.9N, 151.9E
 Kurile Islands
 H = 20 37 53.6
 h 29 km
 MAG 4.5 (CGS)
 Alert
 e(P) 20 46 57
 Coppermine
 eP 20 46 49 d
 Mould Bay
 eP 20 46 22

NOVEMBER 7
 Coppermine
 eP 23 09 26

NOVEMBER 8
 U.S.C.G.S.
 45.0N, 150.9E
 Kurile Islands
 H = 08 08 09.2
 h 40 km
 MAG 4.8 (CGS)
 Alert
 eP 08 17 11 c

Coppermine
 eP 08 17 05 c
 Frobisher
 eP 08 18 59 c
 Mould Bay
 eP 08 16 34 c
 Resolute
 eP 08 17 21 c

NOVEMBER 8
 U.S.C.G.S.
 16.5S, 28.5E
 Northern Rhodesia
 H = 09 59 24.3
 h 33 km
 MAG 5.5 (CGS)
 Coppermine
 eP 10 18 20

NOVEMBER 8
 U.S.C.G.S.
 44.0N, 150.4E
 Kurile Islands
 H = 11 22 28.5
 h 40 km
 MAG 4.3 (CGS)
 Resolute
 eP 11 31 (52)

NOVEMBER 8
 U.S.C.G.S.
 44.4N, 149.4E
 Kurile Islands
 H = 14 35 26.0
 h 33 km
 MAG 4.3 (CGS)
 Coppermine
 eP 14 44 34
 Mould Bay
 eP 14 44 (01)
 Resolute
 eP 14 44 47

NOVEMBER 8
 Resolute
 eP 15 09 47

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NOVEMBER 8
 Resolute
 eP 15 38 (15)

NOVEMBER 8
 Alert
 e(P) 16 08 40
 Mould Bay
 eP 16 08 (48)

NOVEMBER 8
 U.S.C.G.S.
 2.7N, 128.4E
 Molucca Passage
 H = 16 13 36.2
 h 216 km
 MAG 5.7 (CGS)
 Coppermine
 eP 16 26 45 c
 Mould Bay
 eP 16 26 25
 Resolute
 eP 16 26 52 c

NOVEMBER 8
 Resolute
 eP 19 00 12

NOVEMBER 8
 U.S.C.G.S.
 3.7S, 78.2W
 Ecuador
 H = 19 22 54.7
 h 33 km
 MAG 4.5 (CGS)
 Mould Bay
 eP 19 35 19

NOVEMBER 8
 Resolute
 eP 21 33 (25)

NOVEMBER 9
 Coppermine
 eP 01 31 39

Frobisher
 iP 01 33 34 d
 Mould Bay
 eP 01 31 (11)

NOVEMBER 9
 Resolute
 eP 01 31 55 c
 Schefferville
 e(P) 01 34 36

NOVEMBER 9
 Mould Bay
 eP 01 37 (17)
 Coppermine
 eP 01 37 28 c

NOVEMBER 9
 U.S.C.G.S.
 56.8N, 34.6W
 South of Iceland
 H = 02 46 44.5
 h 33 km
 MAG 4.8 (CGS)
 Alert
 e(P) 02 52 22
 Banff
 eP 02 54 00
 Coppermine
 eP 02 53 45
 Frobisher
 eP 02 50 54 d
 Resolute
 eP 02 52 (40)
 Schefferville
 eP 02 50 54 d

NOVEMBER 9
 Resolute
 eP 06 58 (14)

NOVEMBER 9
 Alert
 i 07 56 39

NOVEMBER 9
 U.S.C.G.S.
 45.6N, 150.0E
 Kurile Islands
 H = 08 35 25.3
 h 45 km
 MAG 4.2 (CGS)
 Coppermine
 eP 08 44 20
 Resolute
 eP 08 44 35

NOVEMBER 9
 U.S.C.G.S.
 45.3N, 150.8E
 Kurile Islands
 H = 08 51 18.6
 h 33 km
 MAG 5.2 (CGS)
 Alert
 eP 09 00 20 (c)
 Banff
 eP 09 01 13
 Coppermine
 eP 09 00 14 c
 Frobisher
 iP 09 02 08 c
 Resolute
 eP 09 00 30

NOVEMBER 9
 U.S.C.G.S.
 45.6N, 150.9E
 Kurile Islands
 H = 11 13 30.6
 h 40 km
 MAG 4.4 (CGS)
 Coppermine
 eP 11 22 24
 Resolute
 eP 11 22 40

NOVEMBER 9
 Coppermine
 e(P) 13 04 06

DOMINION OBSERVATORIES

NOVEMBER 9 U.S.C.G.S. 0.1S, 25.1W Atlantic Ocean H = 12 54 30.3 h 33 km MAG 5.2 (CGS) Coppermine eP 13 07 29 Resolute eP 13 07 03	Schefferville eP 21 25 04 Victoria eP 21 26 03 Yellowknife iP 21 26 32	Victoria eP 01 11 12 Yellowknife iP 01 11 41 d
NOVEMBER 9 Coppermine e(P) 18 00 43	NOVEMBER 9 Ottawa eP 22 01 16	NOVEMBER 10 U.S.C.G.S. 26.5N, 93.2E Northeastern India H = 04 58 52.7 h 66 km Mould Bay eP 05 10 31 Resolute eP 05 10 (50)
NOVEMBER 9 U.S.C.G.S. 9.0S, 71.5W Western Brazil H = 21 15 30.4 h 600 km MAG 5.9 (CGS) Alert eP 21 27 33 (d) Banff eP 21 25 49 Coppermine eP 21 26 52 c Frobisher eP 21 25 57 Halifax iP 21 23 57 (d) London iP 21 23 49 Mould Bay eP 21 27 26 Ottawa iP 21 24 02 Port Hardy iP 21 26 23 d Resolute eP 21 27 03 Scarboro iP 21 23 53 d	NOVEMBER 9 Ottawa eP 21 53 (06)	NOVEMBER 10 U.S.C.G.S. 9.2S, 71.5W Western Brazil H = 01 00 38.8 h 600 km MAG 5.6 (CGS) Alert eP 01 12 42 Banff iP 01 10 51 Coppermine eP 01 12 01 Frobisher eP 01 11 07 d Halifax iP 01 09 09 d London iP 01 08 58 Mould Bay eP 01 12 35 d Ottawa eP 01 09 10 d Port Hardy eP 01 11 30.5 Resolute eP 01 12 12 d Scarboro iP 01 09 02 d Schefferville iP 01 10 13 d
	NOVEMBER 10 U.S.C.G.S. 9.2S, 71.5W Western Brazil H = 01 00 38.8 h 600 km MAG 5.6 (CGS) Alert eP 01 12 42 Banff iP 01 10 51 Coppermine eP 01 12 01 Frobisher eP 01 11 07 d Halifax iP 01 09 09 d London iP 01 08 58 Mould Bay eP 01 12 35 d Ottawa eP 01 09 10 d Port Hardy eP 01 11 30.5 Resolute eP 01 12 12 d Scarboro iP 01 09 02 d Schefferville iP 01 10 13 d	NOVEMBER 10 U.S.C.G.S. 12.9N, 88.5W Off Coast of El Salvador H = 07 18 07.6 h 45 km MAG 4.2 (CGS) Coppermine eP 07 27 53 Resolute eP 07 28 21
	NOVEMBER 10 U.S.C.G.S. 44.5N, 149.4E Kurile Islands H = 08 50 06.1 h 45 km MAG 4.9 (CGS) Coppermine eP 08 59 09 c Mould Bay eP 08 58 38 Resolute eP 08 59 24	NOVEMBER 10 U.S.C.G.S. 44.5N, 149.4E Kurile Islands H = 08 50 06.1 h 45 km MAG 4.9 (CGS) Coppermine eP 08 59 09 c Mould Bay eP 08 58 38 Resolute eP 08 59 24

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NOVEMBER 10 Coppermine eP 13 30 13 Resolute eP 13 30 13	NOVEMBER 10 U.S.C.G.S. 44.4N, 149.0E Kurile Islands H = 17 17 42.7 h 40 km MAG 5.5 (CGS) Alert e(P) 17 26 51 Banff eP 17 27 40 Coppermine eP 17 26 46 Frobisher eP 17 28 41 d London eP 17 30 02 Mould Bay eP 17 26 15 Ottawa eP 17 30 02 Resolute eP 17 27 02 Scarboro iP 17 30 04 c Schefferville eP 17 29 31 Victoria eP 17 27 27 Yellowknife eP 17 27 06	NOVEMBER 10 Coppermine eP 19 34 22
NOVEMBER 10 Resolute eP 13 59 53	NOVEMBER 10 U.S.C.G.S. 45.1N, 151.9E Kurile Islands H = 14 44 32.0 h 40 km MAG 4.2 (CGS) Coppermine eP 14 53 (25) Mould Bay eP 14 52 56 Resolute eP 14 53 42	NOVEMBER 10 Resolute eP 23 49 42
NOVEMBER 10 U.S.C.G.S. 47.4N, 147.4E Kurile Islands H = 15 58 35.0 h 40 km MAG 4.2 (CGS) Resolute eP 16 07 38	NOVEMBER 10 U.S.C.G.S. 44.0N, 147.3E Kurile Islands H = 18 08 44.0 h 45 km MAG 4.4 (CGS) Coppermine eP 18 17 56 Resolute eP 18 18 11	NOVEMBER 10 U.S.C.G.S. 43.8N, 149.5E Kurile Islands H = 00 10 25.6 h 55 km MAG 4.7 (CGS) Coppermine eP 00 19 30 Frobisher eP 00 21 21 Mould Bay eP 00 19 01
NOVEMBER 10 Resolute eP 16 11 07	NOVEMBER 11 U.S.C.G.S. 44.3N, 149.2E Kurile Islands H = 00 37 10.5 h 45 km MAG 4.4 (CGS) Coppermine eP 00 46 15 Resolute eP 00 46 31	NOVEMBER 11 U.S.C.G.S. 44.3N, 149.2E Kurile Islands H = 00 37 10.5 h 45 km MAG 4.4 (CGS) Coppermine eP 00 46 15 Resolute eP 00 46 31
	NOVEMBER 11 Resolute eP 01 12 (15)	NOVEMBER 11 Resolute eP 01 12 (15)

DOMINION OBSERVATORIES

NOVEMBER 11 U.S.C.G.S. 44.3N, 149.2E Kurile Islands H = 05 06 03.2 h 40 km MAG 4.5 (CGS) Coppermine eP 05 15 08 Resolute eP 05 15 24	Coppermine eP 11 42 08 c Mould Bay eP 11 42 25 c Resolute eP 11 42 46 Victoria eP 11 40 53	Frobisher eP 20 28 52 Mould Bay eP 20 30 19 d Ottawa eP 20 26 (26) Resolute eP 20 30 (02) Schefferville eP 20 27 48
NOVEMBER 11 Halifax eP 07 17 25	NOVEMBER 11 U.S.C.G.S. 9.1S, 71.4W Western Brazil H = 19 54 09.4 h 585 km MAG 4.9 Banff iP 20 04 30 Frobisher eP 20 04 39 d Mould Bay iP 20 06 07 d Resolute eP 20 05 44 d Schefferville eP 20 03 45 d Victoria eP 20 04 45	NOVEMBER 11 Mould Bay eP 21 49 (37) Resolute eP 21 50 (24)
NOVEMBER 11 U.S.C.G.S. 44.6N, 148.9E Kurile Islands H = 09 49 43.3 h 55 km MAG 4.7 (CGS) Coppermine eP 09 58 46 Frobisher iP 10 00 38 (c) Mould Bay eP 09 58 15 Resolute eP 09 59 02 Schefferville eP 10 01 28 Yellowknife eP 09 59 (07)	NOVEMBER 11 U.S.C.G.S. 4.0N, 82.6W Off West Coast of Colombia H = 20 18 39.7 h 33 km MAG 4.8 (CGS) Alert i 20 30 43 Coppermine eP 20 29 34 c	NOVEMBER 12 U.S.C.G.S. 44.0N, 149.2E Kurile Islands H = 00 31 47.0 h 33 km MAG 4.4 (CGS) Coppermine eP 00 40 54 Resolute eP 00 41 10
NOVEMBER 11 U.S.C.G.S. 16.9S, 174.4W Tonga Islands H = 11 29 06.4 h 185 km MAG 5.2 (CGS) Banff eP 11 41 21 d	NOVEMBER 11 U.S.C.G.S. 35.5N, 29.7E Near Southwest Coast of Turkey H = 07 06 31.2 h 69 km MAG 5.0 (CGS) Alert eP 07 15 59 c Banff eP 07 19 16	NOVEMBER 12 Resolute e(P) 01 02 53

SEISMOLOGICAL BULLETIN - 1963

Coppermine eP 07 17 58 c Frobisher iP 07 16 47 d Mould Bay iP 07 17 17 c Ottawa eP 07 18 07 Resolute eP 07 17 01 Schefferville eP 07 17 06 c	NOVEMBER 12 U.S.C.G.S. 44.2N, 149.2E Kurile Islands H = 08 33 15.9 h 50 km MAG 4.8 (CGS) Banff eP 08 43 19 Coppermine eP 08 42 21 c Mould Bay eP 08 41 50 Resolute eP 08 42 36 Schefferville eP 08 45 03	NOVEMBER 12 U.S.C.G.S. 31.7N, 78.5E Northern India H = 15 28 43.9 h 33 km MAG 4.6 (CGS) Mould Bay eP 15 40 04
NOVEMBER 12 U.S.C.G.S. 44.2N, 149.0E Kurile Islands H = 07 56 53.6 h 45 km MAG 4.9 (CGS) Coppermine eP 08 06 00 Frobisher iP 08 07 51 d Mould Bay eP 08 05 28 Resolute eP 08 06 15 Schefferville eP 08 08 42	NOVEMBER 12 Coppermine eP 11 31 03 NOVEMBER 12 U.S.C.G.S. 44.2N, 149.4E Kurile Islands H = 13 00 00.7 h 50 km MAG 4.9 (CGS) Banff eP 13 10 03 Coppermine eP 13 09 05 d Frobisher eP 13 10 57 Mould Bay eP 13 08 35 Resolute eP 13 09 20	NOVEMBER 12 Coppermine eP 19 43 37 c Frobisher eP 19 43 15 Mould Bay eP 19 44 33 c Resolute eP 19 44 12
NOVEMBER 12 Frobisher iP 08 29 13 d	NOVEMBER 12 Resolute eP 13 47 21	NOVEMBER 12 Mould Bay eP 23 14 07 c NOVEMBER 12 Banff eP 23 50 (31) NOVEMBER 13 U.S.C.G.S. 44.5N, 149.2E Kurile Islands H = 01 15 38.5 h 50 km MAG 4.1 (CGS) Resolute eP 01 24 57



DOMINION OBSERVATORIES

NOVEMBER 13
U.S.C.G.S.
34.6N, 137.1E
Near South Coast of
Honshu, Japan
H = 01 34 46.0
h 105 km
MAG 4.2 (CGS)
Coppermine
eP 01 45 16

NOVEMBER 13
Canadian Arctic
H = 03 57 04.8
MAG 0.9
Resolute
P₁ 03 57 14
S₁ 03 57 21
D = 57.5 km

NOVEMBER 13
U.S.C.G.S.
34.4N, 138.3E
Near South Coast of
Honshu, Japan
H = 05 01 41.8
h 80 km
MAG 4.4
Coppermine
eP 05 12 11
Mould Bay
eP 05 11 40 c
Resolute
eP 05 12 20

NOVEMBER 13
U.S.C.G.S.
44.2N, 149.6E
Kurile Islands
H = 07 32 42.0
h 40 km
MAG 4.2 (CGS)
Coppermine
eP 07 41 (50)
Mould Bay
eP 07 41 18

Resolute
eP 07 42 03

NOVEMBER 13
Coppermine
eP 08 47 24
Mould Bay
eP 08 47 43

NOVEMBER 13
U.S.C.G.S.
9.0N, 73.3W
Colombia
H = 09 01 41.0
h 328 km
MAG 4.0 (CGS)
Coppermine
eP 09 11 49
Mould Bay
eP 09 12 30 d

NOVEMBER 13
Resolute
eP 10 36 46

NOVEMBER 13
U.S.C.G.S.
51.9N, 177.6W
Andreanof Islands,
Aleutian Islands
H = 12 34 52.0
h 33 km
MAG 3.9 (CGS)
Mould Bay
eP 12 41 24 d

NOVEMBER 13
U.S.C.G.S.
44.9N, 148.8E
Kurile Islands
H = 13 09 00.7
h 40 km
MAG 4.7 (CGS)
Coppermine
eP 13 18 03

Resolute
eP 13 18 17

NOVEMBER 13
U.S.C.G.S.
44.3N, 148.2E
Kurile Islands
H = 15 50 48.0
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 15 59 27
Resolute
eP 16 00 12

NOVEMBER 13
U.S.C.G.S.
45.5N, 150.0E
Kurile Islands
H = 16 25 17.0
h 50 km
MAG 4.4 (CGS)
Coppermine
eP 16 34 12

NOVEMBER 13
Coppermine
eP 18 48 23

NOVEMBER 13
U.S.C.G.S.
25.3N, 109.3W
Gulf of California
H = 20 03 06.6
h 14 km
MAG 4.6 (CGS)
Mould Bay
eP 20 12 10
Resolute
eP 20 12 03
Schefferville
e(P) 20 11 07

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 13
Coppermine
eP 23 14 54
Resolute
eP 23 15 11

NOVEMBER 14
U.S.C.G.S.
22.6N, 142.9E
Mariana Islands Region
H = 03 58 48.9
h 177 km
MAG 4.9 (CGS)
Alert
i 04 10 10
Coppermine
eP 04 10 03
Mould Bay
eP 04 09 42
Resolute
eP 04 10 19
Yellowknife
eP 04 10 17

NOVEMBER 14
U.S.C.G.S.
17.5S, 167.7E
New Hebrides Islands
H = 04 35 48.5
h 33 km
MAG 4.8 (CGS)
Coppermine
eP 04 49 37
Schefferville
eP' 04 54 (44)

NOVEMBER 14
U.S.C.G.S.
45.7N, 151.2E
Kurile Islands
H = 05 06 07.5
h 15 km
MAG 4.6 (CGS)
Alert
eP 05 15 10

Coppermine
eP 05 15 03
Frobisher
eP 05 16 58
Mould Bay
eP 05 14 (33)
Resolute
eP 05 15 (20)

NOVEMBER 14
63.4°N, 130.0°W
On the Yukon-Mackenzie
Border
H = 06 26 07
MAG 4.0
Coppermine
Pn 06 27 47
Sn 06 29 03
Lg 06 29 45
D = 775 km
Mould Bay
e 06 28 54
e 06 31 (10)
D = 1515 km
Resolute
e 06 29 43
D = 1835 km
Yellowknife
Pn 06 27 58
Sn 06 29 18
D = 860 km

NOVEMBER 14
Resolute
eP 07 46 09

NOVEMBER 14
U.S.C.G.S.
15.1N, 93.9W
Off Coast of
Chiapas, Mexico
H = 09 05 47.8
h 33 km
MAG 4.9 (CGS)
Alert
eP 09 16 49 c

Coppermine
eP 09 15 14 c
Frobisher
eP 09 14 53
Mould Bay
eP 09 16 11 c
Resolute
eP 09 15 49

NOVEMBER 14
U.S.C.G.S.
52.3N, 179.8W
Andreanof Islands,
Aleutian Islands
H = 13 37 02.0
h 100 km
Mould Bay
eP 13 43 31 c
Resolute
eP 13 44 22

NOVEMBER 14
Ottawa
eP 14 54 (37)

NOVEMBER 14
U.S.C.G.S.
15.0N, 94.2W
Off Coast of Chiapas,
Mexico
H = 17 59 04.9
h 33 km
MAG 4.2 (CGS)
Frobisher
eP 18 08 10
Mould Bay
eP 18 09 28 (c)

NOVEMBER 14
Mould Bay
eP 19 34 33

DOMINION OBSERVATORIES

NOVEMBER 14
U.S.C.G.S.
45.4N, 151.4E
Kurile Islands
H = 21 27 25.6
h 50 km
MAG 4.4 (CGS)
Mould Bay
eP 21 35 (47)
Resolute
eP 21 36 34

NOVEMBER 15
U.S.C.G.S.
44.4N, 149.2E
Kurile Islands
H = 08 21 23.0
h 55 km
MAG 4.3 (CGS)
Resolute
eP 08 30 43

NOVEMBER 15
U.S.C.G.S.
44.4N, 149.1E
Kurile Islands
H = 00 44 38.5
h 45 km
MAG 4.7 (CGS)
Frobisher
eP 00 55 35
Mould Bay
eP 00 53 13
Resolute
eP 00 53 59

NOVEMBER 15
Mould Bay
eP 05 02 36 c

NOVEMBER 15
U.S.C.G.S.
45.6N, 153.2E
Kurile Islands
H = 06 34 07.0
h 33 km
MAG 4.1 (CGS)
Mould Bay
eP 06 42 25

NOVEMBER 15
U.S.C.G.S.
52.9N, 164.3W
Unimak Island
Aleutian Islands
H = 15 17 07.7
h 33 km
MAG 4.6 (CGS)
Alert
eP 15 24 37
Frobisher
iP 15 25 36 c
Mould Bay
eP 15 23 08
Resolute
eP 15 23 56

NOVEMBER 15
Mould Bay
eP 18 03 06

NOVEMBER 15
U.S.C.G.S.
44.3N, 149.0E
Kurile Islands
H = 21 06 34.0
h 50 km
MAG 6.0 (CGS)
Alert
eP 21 15 41 c
Banff
eP 21 16 (38)
Coppermine
iP 21 15 38 c
Frobisher
eP 21 17 30 c
Halifax
iP 21 19 18
London
eP 21 18 51
Mould Bay
eP 21 15 07 c
Ottawa
eP 21 18 50
Port Hardy
eP 21 15 57
Resolute
eP 21 15 53 c
Schefferville
eP 21 18 21 (c)
Victoria
eP 21 16 17
Yellowknife
iP 21 15 59 d

NOVEMBER 15
Resolute
eP 21 45 10

NOVEMBER 15
Mould Bay
eP 23 18 59 d

NOVEMBER 16
Resolute
eP 00 01 28

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NOVEMBER 16
Resolute
eP 01 02 54

NOVEMBER 16
U.S.C.G.S.
44.7N, 149.0E
Kurile Islands
H = 01 17 05.6
h 33 km
MAG 4.4 (CGS)
Mould Bay
eP 01 25 39
Resolute
eP 01 26 26 c

NOVEMBER 16
U.S.C.G.S.
44.3N, 149.0E
Kurile Islands
H = 02 30 07.0
h 50 km
MAG 5.0 (CGS)
Alert
e(P) 02 39 (14)
Banff
eP 02 40 (13)
Coppermine
iP 02 39 13 c
Frobisher
eP 02 41 04
Mould Bay
eP 02 38 41 c
Resolute
eP 02 39 27
Victoria
eP 02 40 00
Yellowknife
e 02 39 33

NOVEMBER 16
U.S.C.G.S.
26.7N, 97.2E
Northern Burma
H = 11 07 53.7
h 33 km
MAG 5.1 (CGS)
Coppermine
eP 11 20 15
Frobisher
eP 11 20 47
Mould Bay
eP 11 19 33 c
Resolute
eP 11 19 53
Yellowknife
eP 11 20 (41)

NOVEMBER 16
U.S.C.G.S.
22.3S, 175.0W
Tonga Islands
H = 22 43 26.4
h 33 km
MAG 5.6 (CGS)
Banff
eP 22 56 24
Port Hardy
iP 22 55 55 c
Victoria
ePP 22 59 54

NOVEMBER 16
Resolute
eP 23 48 51 (c)

NOVEMBER 16
U.S.C.G.S.
28.1N, 95.1E
Assam, India
H = 11 39 37.8
h 37 km
MAG 4.7 (CGS)
Mould Bay
eP 11 51 10 (d)

NOVEMBER 16
Resolute
eP 13 31 54

NOVEMBER 16
U.S.C.G.S.
2.2S, 80.0W
Ecuador
H = 18 06 55.0
h 59 km
MAG 4.6 (CGS)
Mould Bay
eP 18 19 06 (d)

NOVEMBER 16
U.S.C.G.S.
7.6N, 37.4W
North Atlantic Ocean
H = 00 48 02.6
h 33 km
MAG 5.9 (CGS)
Alert
eP 00 59 45
Banff
eP 00 59 (51)
Coppermine
eP 01 00 02 d
Frobisher
eP 00 58 11 d
Halifax
iP 00 56 05 d
London
eP 00 57 11
Mould Bay
eP 01 00 15
Ottawa
eP 00 56 56
Port Hardy
eP 01 00 33
Resolute
eP 00 59 39

DOMINION OBSERVATORIES

Scarboro
eP 00 57 07
Schefferville
eP 00 57 16 d
Victoria
eP 01 00 19
Yellowknife
eP 00 59 56 c

NOVEMBER 17
Mould Bay
eP 03 56 52

NOVEMBER 17
H = 06 02 54
MAG 2.0
Victoria
eP 06 03 12.3
eS 06 03 26.3
D = 115 km

NOVEMBER 17
Mould Bay
eP 06 35 58 d

NOVEMBER 17
U.S.C.G.S.
6.3N, 126.2E
Mindanao
H = 07 50 34.4
h 33 km
MAG 5.6 (CGS)
Mould Bay
eP 08 03 (27)

NOVEMBER 17
U.S.C.G.S.
44.9N, 149.5E
Kurile Islands
H = 17 40 59.1
h 50 km
MAG 4.3 (CGS)
Resolute
eP 17 50 15

NOVEMBER 17
U.S.C.G.S.
45.2N, 150.1E
Kurile Islands
H = 22 51 14.0
h 20 km
MAG 4.1 (CGS)
Resolute
eP 23 00 29

NOVEMBER 18
U.S.C.G.S.
47.2N, 148.5E
Sea of Okhotsk
H = 01 45 27.6
h 319 km
MAG 4.7 (CGS)
Resolute
eP 01 54 01

NOVEMBER 18
Schefferville
eP 04 45 49 d

NOVEMBER 18
Resolute
eP 04 57 47

NOVEMBER 18
Resolute
eP 10 39 34

NOVEMBER 18
Mould Bay
eP 13 33 45 c

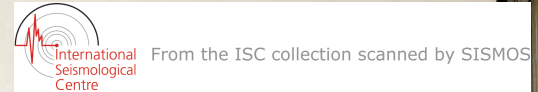
NOVEMBER 18
U.S.C.G.S.
29.9N, 113.6W
Gulf of Mexico
H = 14 38 28.9
h 14 km
MAG 5.7 (CGS)
Alert
e(P) 14 47 59

Banff
eP 14 43 16
Coppermine
eP 14 45 49
Frobisher
eP 14 46 41
Halifax
iP 14 46 23
London
eP 14 44 30
Mould Bay
eP 14 46 56
Ottawa
eP 14 45 10 c
Port Hardy
eP 14 43 35 d
Resolute
eP 14 46 54
Schefferville
eP 14 46 18
Victoria
eP 14 43 03
Yellowknife
eP 14 45 03

NOVEMBER 18
U.S.C.G.S.
29.7N, 113.8W
Gulf of California
H = 16 02 19.9
h 14 km
MAG 4.7 (CGS)
Banff
eP 16 07 11

NOVEMBER 18
U.S.C.G.S.
29.7N, 113.8W
Gulf of California
H = 16 02 19.9
h 14 km
MAG 4.7 (CGS)
Mould Bay
eP 16 10 50
Ottawa
eP 16 09 02

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Victoria
eP 16 06 57
NOVEMBER 19
U.S.C.G.S.
31.0N, 113.7W
Gulf of California
H = 01 11 43.2
h 14 km
MAG 4.9 (CGS)
Mould Bay
eP 01 20 (03)
Resolute
eP 01 39 55

NOVEMBER 19
U.S.C.G.S.
44.1N, 150.2E
Kurile Islands
H = 02 01 16.0
h 50 km
MAG 4.5 (CGS)
Resolute
eP 02 10 36

NOVEMBER 19
U.S.C.G.S.
39.7N, 129.5E
Off East Coast of Korea
H = 04 37 56.8
h 537 km
MAG 4.4 (CGS)
Mould Bay
eP 04 46 50 d
Resolute
eP 04 47 27

NOVEMBER 19
U.S.C.G.S.
59.7N, 140.8W
Yakutat Bay, Alaska
H = 08 06 33.0
h 33 km
MAG 4.2 (CGS)
Frobisher
eP 08 13 16

Mould Bay
eP 08 10 45
NOVEMBER 19
U.S.C.G.S.
30.9N, 113.8W
Gulf of California
H = 08 23 11.6
h 14 km
MAG 5.0 (CGS)
Banff
eP 08 27 46
Mould Bay
eP 08 31 32

NOVEMBER 19
Resolute
eP 08 30 13

NOVEMBER 19
U.S.C.G.S.
44.4N, 149.2E
Kurile Islands
H = 11 00 54.3
h 33 km
MAG 5.8 (CGS)

Alert
eP 11 10 03
Banff
iP 11 10 59
Coppermine
iP 11 10 00 d
Frobisher
iP 11 11 51 d
London
eP 11 13 12
Mould Bay
eP 11 09 29 d
Ottawa
eP 11 13 12 (d)
Resolute
eP 11 10 15 d
Schefferville
eP 11 12 42 d
Victoria
eP 11 10 40

Yellowknife
iP 11 10 21 c
NOVEMBER 19
Resolute
eP 13 37 35
NOVEMBER 19
U.S.C.G.S.
44.4N, 149.1E
Kurile Islands
H = 14 25 27.0
h 33 km
MAG 4.4 (CGS)
Resolute
eP 14 34 48

NOVEMBER 19
U.S.C.G.S.
53.1N, 159.6E
Off East Coast of
Kamchatka
H = 17 38 39.7
h 40 km
MAG 4.9 (CGS)
Alert
eP 17 46 37 c
Coppermine
iP 17 46 19 c
Frobisher
iP 17 48 27 c
Mould Bay
iP 17 45 49 c
Ottawa
eP 17 49 54
Resolute
eP 17 46 40 c
Schefferville
eP 17 49 22 c
Yellowknife
eP 17 46 41

NOVEMBER 19
Resolute
eP 18 47 39

DOMINION OBSERVATORIES

NOVEMBER 19
Port Hardy
iP 19 46 33.7 c

NOVEMBER 19
Resolute
eP 19 59 56

NOVEMBER 19
Resolute
eP 20 45 57

NOVEMBER 19
Resolute
eP 21 00 51

NOVEMBER 19
Resolute
eP 23 28 15

NOVEMBER 20
Port Hardy
eP 01 11 31

NOVEMBER 20
53.4N, 130.6W
Queen Charlotte Islands
H = 01 13 49
MAG 4.0
Port Hardy
eP 01 14 35.5
D = 366 km
Victoria
eP 01 15 56.3

NOVEMBER 20
Banff
eP 01 18 52

NOVEMBER 20
U.S.C.G.S.
53.4N, 130.6W
Queen Charlotte Isle
H = 01 13 49.0
h 39 km
MAG 4.0 (CGS)
Mould Bay
eP 01 18 (51)

NOVEMBER 20
Yellowknife
eP 01 20 14

NOVEMBER 20
Resolute
eP 04 45 (17)

NOVEMBER 20
Resolute
eP 06 31 34

NOVEMBER 20
Resolute
eP 06 48 39

NOVEMBER 20
Resolute
eP 07 28 44

NOVEMBER 20
Resolute
eP 08 41 31

NOVEMBER 20
Resolute
eP 12 40 52

NOVEMBER 20
Resolute
eP 15 18 49

NOVEMBER 20
U.S.C.G.S.
31.5N, 131.6E
Kyushu, Japan
H = 16 57 13.5
h 33 km
MAG 4.5 (CGS)
Alert
eP 17 07 59 c
Mould Bay
eP 17 07 46 c
Resolute
eP 17 08 23 c

NOVEMBER 20
Resolute
eP 19 19 16

NOVEMBER 20
Mould Bay
eP 20 52 58

NOVEMBER 20
U.S.C.G.S.
44.1N, 149.1E
Kurile Islands
H = 22 33 30.3
h 45 km
MAG 4.6
Coppermine
eP 22 42 37
Frobisher
eP 22 44 29
Mould Bay
eP 22 42 05
Resolute
eP 22 42 52

NOVEMBER 21
Mould Bay
eP 05 41 00

NOVEMBER 21
Mould Bay
eP 06 12 (34)

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 21
Resolute
eP 08 13 37

NOVEMBER 21
U.S.C.G.S.
41.2N, 141.1E
Near Coast of Honshu,
Japan
H = 09 53 38.9
h 57 km
MAG 4.2 (CGS)
Resolute
eP 10 03 32

NOVEMBER 21
Resolute
eP 12 52 36

NOVEMBER 21
U.S.C.G.S.
44.9N, 151.9E
Kurile Islands
H = 13 06 41.6
h 40 km
MAG 4.4 (CGS)
Alert
e(P) 13 15 44
Mould Bay
eP 13 15 03

NOVEMBER 21
U.S.C.G.S.
13.0N, 144.9E
Mariana Islands
H = 16 22 42.4
h 33 km
MAG 4.9 (CGS)
Mould Bay
eP 16 34 (38)

NOVEMBER 21
Resolute
eP 20 05 14

NOVEMBER 21
U.S.C.G.S.
44.2N, 149.6E
Kurile Islands
H = 19 58 23.8
h 40 km
MAG 4.6 (CGS)
Mould Bay
eP 20 06 58
Resolute
eP 20 07 44

NOVEMBER 21
Resolute
eP 20 11 13

NOVEMBER 21
Resolute
eP 20 46 25

NOVEMBER 21
U.S.C.G.S.
50.3N, 156.4E
Southern Kamchatka
H = 21 01 35.3
h 80 km
MAG 5.3 (CGS)
Alert
eP 21 09 51
i 21 10 06
Banff
eP 21 10 40
Coppermine
eP 21 09 37 d
Frobisher
iP 21 11 40 c
i 11 55
Halifax
eP 21 13 34
Mould Bay
eP 21 09 07 d
Resolute
eP 21 09 57
Schefferville
eP 21 12 34
i 12 50

Victoria
eP 21 10 21
Yellowknife
eP 21 09 58

NOVEMBER 21
Mould Bay
eP 22 20 33

NOVEMBER 22
Resolute
eP 00 46 (37)

NOVEMBER 22
Yellowknife
e 04 58 21

NOVEMBER 22
Mould Bay
eP 05 06 05

NOVEMBER 22
Resolute
eP 06 12 17

NOVEMBER 22
Resolute
eP 08 13 (15)

NOVEMBER 22
Resolute
eP 08 51 41

NOVEMBER 22
Resolute
eP 09 31 27

NOVEMBER 22
U.S.C.G.S.
18.5N, 100.3W
Guerrero, Mexico
H = 11 14 03.0
h 120 km
MAG 4.9 (CGS)
Alert
eP 11 24 36



DOMINION OBSERVATORIES

Coppermine eP 11 22 49 d	NOVEMBER 22 U.S.C.G.S. 44.5N, 149.2E	NOVEMBER 22 U.S.C.G.S. 37.3N, 30.1E
London eP 11 19 53	Kurile Islands H = 15 22 10.9 h 40 km	Southwestern Turkey H = 20 26 00.2 h 28 km
Mould Bay iP 11 23 49 d	MAG 4.5 (CGS)	MAG 4.4 (CGS)
Ottawa eP 11 20 34	Coppermine eP 15 31 15	Coppermine eP 20 37 22
Resolute eP 11 23 32	Mould Bay eP 15 30 (45)	Mould Bay eP 20 36 39 c
NOVEMBER 22 Resolute eP 13 20 (58)	Resolute eP 15 31 31	Resolute eP 20 36 23
NOVEMBER 22 U.S.C.G.S. 44.4N, 149.0E	NOVEMBER 22 U.S.C.G.S. 17.9°S, 172.8°W	NOVEMBER 22 U.S.C.G.S. 37.5N, 30.0E
Kurile Islands H = 14 45 51.7 h 33 km	Tonga Islands Region H = 17 03 38.9 h 33 km	Southwestern Turkey H = 21 41 31.0 h 20 km
MAG 5.6 (CGS)	MAG 5.2 (CGS)	MAG 5.1 (CGS)
Alert eP 14 55 00 (c)	Banff eP 17 16 12 (c)	Coppermine eP 21 52 53
Banff eP 14 55 56	Coppermine eP 17 17 01	Resolute eP 21 51 53
Coppermine iP 14 54 57 c	NOVEMBER 22 Resolute eP 19 01 33	NOVEMBER 22 Resolute eP 22 19 (55)
Frobisher eP 14 56 49 c	NOVEMBER 22 U.S.C.G.S. 63.4N, 150.0W	NOVEMBER 22 Resolute eP 22 56 (08)
Halifax eP 14 58 34	Central Alaska H = 20 10 40.0 h 156 km	NOVEMBER 23 Resolute eP 00 50 (35)
London eP 14 58 09	MAG 4.1 (CGS)	NOVEMBER 23 Resolute eP 00 53 (17)
Mould Bay eP 14 54 27 (d)	Coppermine eP 20 14 08	NOVEMBER 23 Resolute eP 01 22 39
Ottawa eP 14 58 09 (c)		
Resolute eP 14 55 12 c		
Schefferville eP 14 57 40 c		
Victoria eP 14 55 38		
Yellowknife eP 14 55 17		

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 23 U.S.C.G.S. 44.3N, 148.9E	NOVEMBER 23 U.S.C.G.S. 29.9N, 114.0W	NOVEMBER 23 U.S.C.G.S. 20.2S, 178.1W
H = 01 49 21.8 h 45 km	Gulf of California H = 08 32 31.0 h 14 km	Fiji Islands H = 19 30 19.4 h 515 km
MAG 4.4 (CGS)	MAG 5.3 (CGS)	MAG 4.7 (CGS)
Coppermine eP 01 58 28 d	Banff eP 08 37 21	Victoria eP 19 41 55
Frobisher eP 02 00 19	Mould Bay eP 08 41 00 (d)	NOVEMBER 23 Resolute eP 22 09 56
Mould Bay eP 01 57 56	Ottawa eP 08 39 (22)	NOVEMBER 23 U.S.C.G.S. 79.9N, 0.9E
Resolute eP 01 58 42	Resolute eP 08 40 57	Svalbard Region H = 22 33 56.3 h 33 km
NOVEMBER 23 U.S.C.G.S. 30.1N, 114.0W	Schefferville e(P) 08 40 23	MAG 4.3 (CGS)
Gulf of California H = 07 50 46.3 h 14 km	Victoria eP 08 37 05	Alert eP 22 36 11
MAG 5.1 (CGS)	NOVEMBER 23 Resolute eP 17 39 49	Frobisher eP 22 39 16
Alert eP 08 00 26	NOVEMBER 23 U.S.C.G.S. 45.1N, 151.5E	Mould Bay eP 22 38 39
Banff eP 07 55 34	H = 19 00 35.6 h 45 km	Resolute eP 22 38 18
Coppermine eP 07 58 06	MAG 4.6 (CGS)	NOVEMBER 24 Resolute eP 01 35 (21)
Halifax eP 07 58 40	Alert iP 19 09 37 c	NOVEMBER 24 Mould Bay eP 02 07 35
London eP 07 56 52	Coppermine eP 19 09 29	Resolute eP 02 07 (55)
Mould Bay eP 07 59 14 (d)	Frobisher eP 19 11 23	NOVEMBER 24 Resolute eP 04 19 (41)
Ottawa eP 07 57 29 c	Mould Bay eP 19 08 59 c	
Resolute eP 07 59 09	Resolute eP 19 09 48	
Schefferville eP 07 58 (36)		
Victoria eP 07 55 18		
Yellowknife eP 07 57 18		

DOMINION OBSERVATORIES

NOVEMBER 24
Resolute
eP 04 27 (32)

NOVEMBER 24
Victoria
eP 07 49 53

NOVEMBER 24
Resolute
eP 09 08 (07)

NOVEMBER 24
Resolute
eP 10 11 48

NOVEMBER 24
U.S.C.G.S.
28.2N, 140.1E
South of Honshu, Japan
H = 11 05 56.8
h 260 km
MAG 5.2 (CGS)
Alert
iP 11 16 36 d
Banff
eP 11 17 19
Coppermine
iP 11 16 38 d
Frobisher
iP 11 18 07 d
Mould Bay
iP 11 16 12 d
Resolute
eP 11 16 49
Victoria
eP 11 17 02 (d)
Yellowknife
eP 11 16 54 d

NOVEMBER 24
U.S.C.G.S.
48.1N, 148.0E
Kurile Islands
H = 11 53 56.0
h 40 km
MAG 4.4 (CGS)
Mould Bay
eP 12 02 06 (c)
Resolute
eP 12 02 52

NOVEMBER 24
Mould Bay
eP 12 24 24

NOVEMBER 24
Resolute
eP 13 31 07

NOVEMBER 24
Scarboro
eP 14 11 06

NOVEMBER 24
Resolute
eP 16 04 (02)

NOVEMBER 24
U.S.C.G.S.
61.8N, 149.5W
Central Alaska
H = 17 48 47.0
h 36 km
MAG 4.3 (CGS)
Coppermine
e(P) 17 52 (27)
Mould Bay
eP 17 52 52

NOVEMBER 24
U.S.C.G.S.
44.3N, 149.3E
Kurile Islands
H = 17 56 02.2
h 50 km
MAG 4.6 (CGS)
Coppermine
eP 18 05 06 c
Mould Bay
eP 18 04 36 (c)
Resolute
eP 18 05 21

NOVEMBER 24
U.S.C.G.S.
46.4N, 150.0E
Kurile Islands
H = 18 09 08.7
h 40 km
MAG 4.9 (CGS)
Coppermine
eP 18 18 02
Frobisher
eP 18 19 55
Mould Bay
eP 18 17 31 c
Resolute
eP 18 18 18 c

NOVEMBER 24
Resolute
eP 18 23 (36)

NOVEMBER 24
U.S.C.G.S.
45.6N, 151.6E
Kurile Islands
H = 19 23 13.8
h 33 km
MAG 4.2 (CGS)
Alert
e(P) 19 32 12

NOVEMBER 24
Resolute
eP 20 01 27

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 24
Resolute
eP 21 06 28

NOVEMBER 24
U.S.C.G.S.
56.1S, 27.5W
Sandwich Islands
H = 22 58 16.8
h 33 km
MAG 5.6 (CGS)
Mould Bay
eP' 23 17 45 c

NOVEMBER 25
Resolute
eP 01 37 09

NOVEMBER 25
Mould Bay
eP 02 10 42

NOVEMBER 25
U.S.C.G.S.
44.8N, 149.4E
Kurile Islands
H = 03 49 13.3
h 40 km
MAG 4.3 (CGS)
Mould Bay
eP 03 57 45 (d)
Resolute
eP 03 58 31

NOVEMBER 25
Resolute
eP 05 56 26

NOVEMBER 25
U.S.C.G.S.
45.4N, 151.4E
Kurile Islands
H = 06 43 23.5
h 50 km
MAG 4.8 (CGS)
Alert
eP 06 52 22 c

Frobisher
eP 06 54 10
Mould Bay
eP 06 51 45 c
Resolute
eP 06 52 34

NOVEMBER 25
U.S.C.G.S.
6.9N, 73.3W
Colombia
H = 06 50 08.8
h 167 km
MAG 4.2 (CGS)
Mould Bay
eP 07 01 26

NOVEMBER 25
U.S.C.G.S.
45.0N, 149.2E
Kurile Islands
H = 08 54 06.1
h 33 km
MAG 4.6 (CGS)
Mould Bay
eP 09 02 (38)
Resolute
eP 09 03 23

NOVEMBER 25
U.S.C.G.S.
44.3N, 149.5E
Kurile Islands
H = 10 02 23.8
h 55 km
MAG 4.9 (CGS)
Alert
eP 10 11 31
Coppermine
eP 10 11 27
Frobisher
eP 10 13 19
Mould Bay
eP 10 10 56
Resolute
eP 10 11 42

NOVEMBER 25
U.S.C.G.S.
44.3N, 149.8E
Kurile Islands
H = 10 11 06.7
h 50 km
MAG 4.8 (CGS)
Alert
eP 10 20 15 d
Coppermine
eP 10 20 10
Frobisher
eP 10 22 03
Mould Bay
eP 10 19 40
Resolute
eP 10 20 26

NOVEMBER 25
U.S.C.G.S.
45.4N, 151.7E
Kurile Islands
H = 11 30 33.0
h 50 km
MAG 4.5 (CGS)
Alert
eP 11 39 33 (c)
Mould Bay
eP 11 38 (57)

NOVEMBER 25
Banff
eP 15 56 49

NOVEMBER 25
Mould Bay
eP 16 33 (09)

NOVEMBER 25
Resolute
eP 23 59 (51)



DOMINION OBSERVATORIES

NOVEMBER 26

Dominion Observatory
78.5°N, 25.5°W
Northeastern Greenland
H = 01 24 19
MAG 4.4
Alert
Pn 01 26 03
Sn 01 27 25
Lg 01 28 07
D = 810 km
Mould Bay
P 01 28 37
D = 2075 km
Resolute
Pn 01 27 56
Sn 01 30 50
D = 1735 km

NOVEMBER 26

Resolute
eP 01 39 (06)

NOVEMBER 26

Resolute
eP 01 51 (58)

NOVEMBER 26

Schefferville
eP 07 14 17

NOVEMBER 26

Resolute
eP 09 24 (05)

NOVEMBER 26

Resolute
eP 12 16 (11)

NOVEMBER 26

Resolute
eP 16 11 (31)

NOVEMBER 26

71.4°N, 73.3°W
North East Coast of
Baffin Isle, NWT
H = 16 20 13
MAG 4.3
Coppermine
Sn 16 26 10
Lg 16 27 43
D = 1600 km
Frobisher
Pn 16 22 00
Sn 16 23 21
Lg 16 24 04
D = 810 km
Resolute
Pn 16 21 56
Sn 16 23 13
Lg 16 23 59
D = 810 km

NOVEMBER 26

U.S.C.G.S.
16.6S, 175.2E
Fiji Islands Region
H = 22 50 08.9
h 33 km
MAG 5.3 (CGS)
Coppermine
eP 23 03 43 c
Mould Bay
eP 23 03 (53)

NOVEMBER 27

Resolute
eP 00 29 28

NOVEMBER 27

Resolute
eP 01 35 51

NOVEMBER 27

U.S.C.G.S.
16.6S, 72.1W
Southern Peru
H = 02 19 41.9
h 79 km
MAG 4.9 (CGS)
Coppermine
eP 02 32 33 c
Edmonton
eP 02 31 33 c
Frobisher
eP 02 31 45
London
eP 02 29 41
Mould Bay
eP 02 33 06 (d)
Schefferville
eP 02 30 56 c
Yellowknife
eP 02 32 13

NOVEMBER 27

U.S.C.G.S.
42.0N, 76.5E
Kasakh, S.S.R.
H = 07 55 17.0
h 33 km
MAG 5.3 (CGS)
Coppermine
eP 08 06 27
Mould Bay
eP 08 05 32 d

NOVEMBER 27

U.S.C.G.S.
46.6N, 152.6E
Kurile Islands Region
H = 09 21 58.1
h 45 km
MAG 4.4 (CGS)
Edmonton
eP 09 31 39 c
Frobisher
eP 09 32 36 c
Mould Bay
eP 09 30 09

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 27

Resolute
eP 13 47 55

NOVEMBER 27

U.S.C.G.S.
3.1N, 126.6E
Molucca Passage
H = 13 58 58.4
h 33 km
MAG 4.8 (CGS)
Coppermine
eP 14 12 31 c
Mould Bay
eP 14 12 09 (c)
Resolute
eP 14 12 35 c

NOVEMBER 27

U.S.C.G.S.
45.8N, 151.8E
Kurile Islands Region
H = 20 18 01.0
h 40 km
MAG 4.4 (CGS)
Alert
eP 20 26 59 c
Frobisher
eP 20 28 46
i 32 10
Mould Bay
eP 20 26 (23)

NOVEMBER 27

U.S.C.G.S.
30.8N, 79.1E
Northern India
H = 21 10 39.9
h 33 km
MAG 5.1 (CGS)
Alert
eP 21 21 21 d
Frobisher
eP 21 23 01
Mould Bay
eP 21 22 05 (c)

Resolute

eP 21 22 18

NOVEMBER 27

Alert
e(P) 23 38 56

NOVEMBER 28

U.S.C.G.S.
44.9N, 148.9E
Kurile Islands
H = 05 11 48.0
h 45 km
MAG 4.4 (CGS)
Resolute
eP 05 21 (05)

NOVEMBER 28

U.S.C.G.S.
10.9N, 41.4W
North Atlantic Ocean
H = 08 41 31
h 33 km
MAG 4.7 (CGS)
Alert
e(P) 08 52 54
Edmonton
eP 08 52 45 c
Mould Bay
eP 08 53 22

NOVEMBER 28

U.S.C.G.S.
08.3N, 124.5E
Near West Coast of
Mindanao, Philippine
Islands
H = 11 16 21.0
h 57 km
MAG 5.8 (CGS)
Mould Bay
eP 11 29 06 c

NOVEMBER 28

Mould Bay
eP 11 57 36 c

NOVEMBER 28

U.S.C.G.S.
45.3N, 150.0E
Kurile Islands
H = 13 05 22.9
h 33 km
MAG 4.3 (CGS)
Resolute
eP 13 14 37

NOVEMBER 28

U.S.C.G.S.
52.2N, 174.2E
Near Islands,
Aleutian Islands
H = 15 13 11.0
h 33 km
MAG 5.4 (CGS)

Alert

eP 15 21 05 c

Banff

eP 15 21 00

Coppermine

eP 15 20 13

Edmonton

eP 15 21 03

Frobisher

eP 15 22 36 c

London

eP 15 23 51

Mould Bay

iP 15 10 58 c

Ottawa

eP 15 23 (53)

Resolute

eP 15 20 50 c

Victoria

eP 15 20 36

Yellowknife

iP 15 20 27 d



DOMINION OBSERVATORIES

NOVEMBER 28
U.S.C.G.S.
43.6N, 150.6E
Kurile Islands
H = 23 18 19.8
h 33 km
MAG 4.4 (CGS)
Resolute
eP 23 27 44

NOVEMBER 29
U.S.C.G.S.
23.7N, 143.2E
Bonin Islands Region
H = 14 49 26.6
h 33 km
MAG 5.2 (CGS)
Alert
eP 15 00 56 (d)
Coppermine
eP 15 00 50
Edmonton
eP 15 01 27
Mould Bay
eP 15 00 28 d
Resolute
eP 15 01 06
Yellowknife
eP 15 01 03

NOVEMBER 29
U.S.C.G.S.
15.1S, 73.7W
Southern Peru
H = 01 58 45.0
h 124 km
MAG 4.7 (CGS)
Edmonton
eP 02 10 20

NOVEMBER 29
U.S.C.G.S.
44.1N, 149.5E
Kurile Islands
H = 19 46 17.1
h 50 km
MAG 4.5 (CGS)
Edmonton
eP 19 56 20 (c)
Frobisher
eP 19 57 15
Mould Bay
eP 19 54 (51)
Resolute
eP 19 55 37

NOVEMBER 29
U.S.C.G.S.
49.0N, 148.3E
Kurile Islands
H = 22 21 49.0
h 33 km
MAG 4.1 (CGS)
Resolute
eP 22 30 40

NOVEMBER 30
U.S.C.G.S.
1.6N, 128.4E
Halmahera Region
H = 09 47 59
h 61 km
MAG 5.5 (CGS)
Coppermine
eP 10 01 31
Mould Bay
eP 10 01 10 d
Resolute
eP 10 01 37

NOVEMBER 30
U.S.C.G.S.
51.9N, 174.2E
Near Islands,
Aleutian Islands
H = 11 29 46.4
h 33 km
MAG 4.2 (CGS)
Edmonton
eP 11 37 38 c
Mould Bay
eP 11 36 35 c

NOVEMBER 30
Mould Bay
eP 12 07 21 c

NOVEMBER 30
Resolute
eP 12 42 11

NOVEMBER 30
Mould Bay
eP 12 55 02 (c)

NOVEMBER 30
Mould Bay
eP 13 56 05 d

NOVEMBER 30
Resolute
eP 13 56 51

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 30
Coppermine
eP 18 23 23

NOVEMBER 30
U.S.C.G.S.
45.2N, 150.4E
Kurile Islands
H = 18 24 29.0
h 50 km
MAG 4.3 (CGS)
Resolute
eP 18 33 39

NOVEMBER 30
U.S.C.G.S.
6.6N, 94.2E
Nicobar Islands
H = 21 40 20.3
h 33 km
MAG 5.3 (CGS)
Alert
eP 21 53 20
Mould Bay
eP 21 53 41 d
Resolute
eP 21 53 57 c

DECEMBER 1
H = 00 59 23
MAG 1.5
Victoria
eP 00 59 45.0
eS 01 00 01.5
D = 135 km

DECEMBER 1
Resolute
eP 02 29 (15)

DECEMBER 1
Alert
eP 02 51 10
Resolute
eP 02 53 17

DECEMBER 1
U.S.C.G.S.
56.1N, 111.8E
Lake Baikal Region
H = 04 26 12.8
h 33 km
MAG 5.3 (CGS)
Alert
eP 04 33 59 d
Coppermine
eP 04 35 15 c
Edmonton
eP 04 36 49 d
Mould Bay
eP 04 34 16 d
Ottawa
eP 04 38 12
Resolute
eP 04 34 (53)
Schefferville
eP 04 37 18 (d)
Victoria
eP 04 36 57
Yellowknife
eP 04 35 50

DECEMBER 1
U.S.C.G.S.
7.4N, 93.5E
Nicobar Islands
H = 09 34 56.0
h 27 km
Alert
e(P) 09 47 53

DECEMBER 1
U.S.C.G.S.
4.6°S, 154.8°E
Solomon Islands Region
H = 11 52 52.9
h 479 km
MAG 4.6 (CGS)
Mould Bay
eP 12 05 16 c

DECEMBER 1
U.S.C.G.S.
44.5N, 150.7E
Kurile Islands
H = 15 57 12.0
h 40 km
MAG 4.4 (CGS)
Edmonton
eP 16 07 09 d
Mould Bay
eP 16 05 43 (c)
Resolute
eP 16 06 (28)

DECEMBER 1
U.S.C.G.S.
28.9N, 130.0E
Ryukyu Islands
H = 16 15 01.0
h 31 km
MAG 4.8 (CGS)
Coppermine
iP 16 26 24 c
Mould Bay
iP 16 25 51 c
Resolute
eP 16 26 26
Yellowknife
eP 16 26 44 d

DECEMBER 1
71.4°N, 73.3°W
Near East Coast of
Baffin Isle, NWT
H = 16 23 53
MAG 4.7
Frobisher
Pn 16 25 38
Sn 16 27 00
Lg 16 27 42
D = 820 km



DOMINION OBSERVATORIES

DECEMBER 1
U.S.C.G.S.
44.6N, 150.7E
Kurile Islands
H = 17 34 58.0
h 40 km
Mag 4.1 (CGS)
Mould Bay
ep 17 43 29

DECEMBER 1
U.S.C.G.S.
44.9N, 150.3E
Kurile Islands
H = 17 44 33.0
h 40 km
Mag 4.4 (CGS)
Mould Bay
ep 17 53 (03)

DECEMBER 2
U.S.C.G.S.
54.9N, 159.1E
Kamchatka
H = 05 16 42.0
h 110 km
Mag 3.9 (CGS)
Mould Bay
ep 05 23 33 c

DECEMBER 2
54.4°N, 132.9°W
Queen Charlotte Islands
Felt at Tlell
H = 06 57 20
Mag 4.5
Port Hardy
ep 06 58 35.6

DECEMBER 2
U.S.C.G.S.
48.1N, 154.7E
Kurile Islands Region
H = 11 45 38.5
h 50 km
Mag 4.5 (CGS)
Alert
iP 11 54 16 c
Coppermine
eP 11 54 03
Edmonton
eP 11 55 (02)
Mould Bay
eP 11 53 34 c
Resolute
eP 11 54 23

DECEMBER 2
U.S.C.G.S.
44.4S, 15.6W
Tristan da Cunha
Islands Region
H = 13 37 25.1
h 33 km
Mag 5.8 (CGS)
Coppermine
eP' 13 56 37 c
Edmonton
eP' 13 56 26 d

Port Hardy
eP 06 53 31.1
D = 532 km
Victoria
eP 06 54 28
D = 998 km

DECEMBER 2
U.S.C.G.S.
80.1N, 0.6W
Svalbard Region
H = 20 55 58.8
h 33 km
Mag 5.1 (CGS)
Alert
eP 20 58 05 d
Coppermine
eP 21 01 46
Mould Bay
eP 21 00 36 d
Resolute
eP 21 00 11
Victoria
eP 21 04 33

DECEMBER 2
Banff
e 21 05 46
Frobisher
eP 21 01 15

DECEMBER 2
U.S.C.G.S.
51.5N 174.0W
Andreanof Islands
Aleutian Islands
H = 23 52 38.3
h 55 km
Mag 4.9 (CGS)
Banff
iP 23 59 33
Coppermine
eP 23 59 04
Frobisher
eP 24 01 (38)
Mould Bay
eP 23 59 05 c
Ottawa
eP 24 02 45
Schefferville
eP 24 02 27
Victoria
eP 23 59 03
Yellowknife
eP 23 59 02

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 3
Mould Bay
eP 02 45 35 (c)

DECEMBER 3
U.S.C.G.S.
45.4N, 151.6E
Kurile Islands
H = 03 44 39.2
h 45 km
Mag 4.3 (CGS)
Alert
eP 03 53 39 (c)
Mould Bay
eP 03 53 03
Resolute
eP 03 53 (48)

DECEMBER 3
U.S.C.G.S.
46.2N, 153.0E
Kurile Islands
H = 05 09 22.0
h 40 km
Mag 5.1 (CGS)
Alert
eP 05 18 16 c
Banff
eP 05 19 03
Coppermine
eP 05 18 05
Frobisher
eP 05 20 03
Mould Bay
eP 05 17 37 c
Resolute
eP 05 18 24
Victoria
eP 05 18 43
Yellowknife
eP 05 18 25

DECEMBER 3
U.S.C.G.S.
12.6N, 144.3E

Mariana Islands
H = 07 21 10.0
h 45 km
Mag 4.6 (CGS)
Alert
eP 07 33 38
Mould Bay
eP 07 33 11 (c)
Resolute
eP 07 33 44

DECEMBER 3
U.S.C.G.S.
46.1N, 152.9E
Kurile Islands
H = 08 39 07.4
h 45 km
Mag 4.7 (CGS)
Alert
e(P) 08 48 01
Mould Bay
eP 08 47 22 c
Resolute
eP 08 48 10

DECEMBER 3
Mould Bay
eP 12 49 (40)

DECEMBER 3
Mould Bay
eP 16 09 26 c

DECEMBER 3
U.S.C.G.S.
2.2N, 84.5W
Off coast of Ecuador
H = 17 12 01.6
h 56 km
Mag 5.2 (CGS)
Alert
e(P) 17 24 11
Coppermine
eP 17 23 02

Mould Bay
eP 17 23 47 d
Ottawa
eP 17 20 03

DECEMBER 3
H = 21 31 01
Mag 2.1
Victoria
eP 21 31 19.4
eS 21 31 33.5
D = 116 km

DECEMBER 3
U.S.C.G.S.
22.4°S 69.3°W
Northern Chile
H = 23 03 41.6
h 18 km
Mag 6.1 (CGS)
Banff
eP 23 16 09
Coppermine
eP 23 17 09 c
Edmonton
eP 23 16 13 (c)
Frobisher
eP 23 16 23
Halifax
iP 23 14 37
London
eP 23 14 28 d
Mould Bay
eP 23 17 (41)
Ottawa
eP 23 14 41
Resolute
eP 23 17 20
Schefferville
eP 23 15 36 c



DOMINION OBSERVATORIES

Victoria
eP 23 16 16
Yellowknife
eP 23 16 50 c

DECEMBER 4
U.S.C.G.S.
34.0°S, 179.3°W
Kermadec Islands
H = 00 44 37.4
h 33 km
Mag 4.8 (CGS)
Alert
e(P) 01 03 35
Resolute
eP 01 03 24

DECEMBER 4
U.S.C.G.S.
46.2N, 153.1E
Kurile Islands
H = 01 27 34.1
h 20 km
Mag 5.2 (CGS)
Alert
eP 01 36 30 (c)
Banff
eP 01 37 17
Edmonton
eP 01 37 17
Frobisher
eP 01 38 18
Mould Bay
eP 01 35 (51)
Resolute
eP 01 36 38
Victoria
eP 01 37 01
Yellowknife
eP 01 36 39

DECEMBER 4
U.S.C.G.S.
31.3N, 55.4E
Iran
H = 02 30 18.1
h 46 km
Mag
Mould Bay
eP 02 41 40 c

DECEMBER 4
U.S.C.G.S.
45.9N, 153.2E
Kurile Islands
H = 02 43 30.4
h 50 km
Mag 4.8 (CGS)
Alert
eP 02 52 24
Banff
eP 02 53 11
Coppermine
eP 02 52 (14)
Edmonton
eP 02 53 11
Frobisher
eP 02 54 11
Mould Bay
eP 02 51 44 c
Resolute
eP 02 52 32
Yellowknife
eP 02 52 33

DECEMBER 4
U.S.C.G.S.
8.3°S, 83.1°W
Off Coast of Peru
H = 03 13 07.1
h 33 km
Mag 4.6 (CGS)
Edmonton
eP 03 23 54 c

DECEMBER 4
U.S.C.G.S.
19.5N, 108.3W
Revilla Gigedo Islands
Region
H = 04 18 46.3
h 33 km
Mag 4.8 (CGS)
Coppermine
eP 04 27 26 c
Edmonton
eP 04 25 26
Mould Bay
eP 04 28 29

DECEMBER 4
U.S.C.G.S.
7.1°S, 80.4°W
Near Coast of Northern
Peru
H = 04 21 22.6
h 45 km
Mag 4.4 (CGS)
Edmonton
eP 04 32 07
Mould Bay
eP 04 34 00 (c)
Yellowknife
eP 04 32 55

DECEMBER 4
Canadian Arctic
H = 06 29 56
Mag 3.8
Coppermine
Pn 06 31 41
Sn 06 33 01
Lg 06 33 47
D = 820 km

DECEMBER 4
76°40'N, 119°30'W
Prince Patrick Island
N.W.T.
H = 06 49 29
Mag 4.1

SEISMOLOGICAL BULLETIN - 1963

Coppermine
(Pn) 06 51 37
Sn 06 53 09
(Lg) 06 54 00
D = 940 km
Mould Bay
P₁ 06 49 36
D = 57 km
Resolute
Pn 06 50 01
Sn 06 52 11
Lg 06 52 (50)
D = 710 km

DECEMBER 4
U.S.C.G.S.
46.1N, 152.9E
Kurile Islands
H = 08 24 17.1
h 33 km
Mag 5.3 (CGS)
Alert
eP 08 33 12
Coppermine
eP 08 33 02
Edmonton
eP 08 34 00
Frobisher
eP 08 34 59
Mould Bay
eP 08 32 33 c
Resolute
eP 08 33 20
Yellowknife
eP 08 33 21

DECEMBER 4
Mould Bay
eP 14 25 (02)

DECEMBER 4
U.S.C.G.S.
46.0N, 153.2E
Kurile Islands
H = 15 44 52.9
h 40 km
Mag 4.9 (CGS)

Alert
eP 15 53 47 c
Banff
eP 15 54 35
Coppermine
eP 15 53 36
Edmonton
eP 15 54 34 (c)
Frobisher
iP 15 55 34 (c)
Mould Bay
eP 15 53 08 c
Resolute
eP 15 53 55
Yellowknife
eP 15 53 56 d

DECEMBER 4
U.S.C.G.S.
35.5°S, 102.8W
Easter Island Region
H = 15 59 42.1
h 33 km
Mag 4.6 (CGS)
Banff
eP 16 12 28

DECEMBER 4
U.S.C.G.S.
43.6°N, 71.6°W
New Hampshire U.S.A.
Slight damage at Laconia
H = 21 32 34.9
Mag 3.4 (OTT)
3.7 (CGS)
London
Lg 21 36 (05)
D = 790 km
Montreal
(Pn) 21 33 12.7
P₁ 21 22 14.6
Sn 21 33 38
S₁ 21 33 44.3
D = 235 km
Ottawa
P₁ 21 33 31.5
S₁ 21 34 16.5
D = 369 km

DECEMBER 5
Mould Bay
eP 00 40 48 c

DECEMBER 5
Canadian Arctic
H = 03 21 55.5
Mag 4.0
Coppermine
Pn 03 23 40.5
Sn 03 25 04
Lg 03 24 48
D = 820 km

DECEMBER 5
Frobisher
eP 03 33 (08)

DECEMBER 5
Canadian Arctic
H = 05 18 22
Mag 4.2
Frobisher
Sn 05 21 29
Lg 05 22 10
D = 820 km

DECEMBER 5
Alert
e(P) 11 41 32
Coppermine
eP 11 40 (30)
Edmonton
eP 11 39 14
Frobisher
eP 11 39 32
London
eP 11 36 52
Mould Bay
eP 11 41 15
Resolute
eP 11 40 (48)
Schefferville
eP 11 38 30 d
Victoria
eP 11 39 30
Yellowknife
eP 11 40 03

DOMINION OBSERVATORIES

DECEMBER 5
U.S. C. G. S.
12.2N, 143.9E
Mariana Islands Region
H = 13 04 27.4
h 33 km
Mag 4.5 (CGS)
Mould Bay
eP 13 16 34 c
Resolute
eP 13 17 07

DECEMBER 5
Resolute
eP 16 34 (28)

DECEMBER 5
U.S. C. G. S.
60.5N, 147.4W
Kenai Peninsula,
Alaska
H = 16 41 45.0
h 33 km
Mag 3.5 (CGS)
Coppermine
eP 16 45 (30)
Mould Bay
eP 16 45 59 (c)
Resolute
eP 16 46 51

DECEMBER 6
U.S. C. G. S.
5.8°S, 150.3E
New Britain
H = 01 56 42.8
h 61 km
Mag 5.3 (CGS)
Mould Bay
eP 02 10 (09)

DECEMBER 6
U.S. C. G. S.
43.8N, 134.9E
Sikhota Alin, U.S.S.R.
H = 03 16 20.5
h 335 km
Mag

Mould Bay
eP 03 24 54 d
Resolute
eP 03 25 35

DECEMBER 6
U.S. C. G. S.
25.6°S, 68.6W
Northern Chile
H = 04 12 48.7
h 105 km
Mag 4.4 (CGS)
Edmonton
eP 04 25 25

DECEMBER 6
U.S. C. G. S.
44.7N, 150.2E
Kurile Islands Region
H = 05 17 10.0
h 60 km
Mag 4.1 (CGS)
Frobisher
eP 05 28 02
Mould Bay
eP 05 25 39
Resolute
eP 05 26 25

DECEMBER 6
U.S. C. G. S.
46.5N, 152.6E
Kurile Islands
H = 06 51 58.0
h 50 km
Mag 4.4 (CGS)
Edmonton
eP 07 01 38
Mould Bay
eP 07 00 09

DECEMBER 6
U.S. C. G. S.
37.5N, 118.5W
Mono County, California
H = 08 34 23.7
h 15 km
Mag 4.3 (CGS)

Banff
eP 08 37 49
Edmonton
eP 08 38 (13)
Frobisher
eP 08 41 55 (c)
Yellowknife
eP 08 39 (50)

DECEMBER 6
Mould Bay
eP 13 57 01

DECEMBER 6
U.S. C. G. S.
7.1°S, 80.5W
Near Coast of Peru
H = 18 14 32.1
h 33 km
Mag 4.4 (CGS)
Mould Bay
eP 18 27 12 c

DECEMBER 6
Resolute
eP 20 09 (10)

DECEMBER 7
71.4°N, 73.3°W
Near East Coast of
Baffin Island N.W. T.
H = 00 26 33
Mag 4.3
Frobisher
Sn 00 29 40
Lg 00 30 20
D = 820 km
Resolute
Lg 00 30 (20)
D = 829 km

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 7
U.S. C. G. S.
22.1°S, 179.4W
Fiji Islands Region
H = 04 07 52.8
h 546 km
Mag 5.5 (CGS)
Alert
eP' 04 25 30
Banff
eP 04 20 02
Frobisher
eP' 04 25 37
Schefferville
e(P)' 04 25 42
Victoria
eP 04 19 37
Yellowknife
eP 04 20 33

Mould Bay
eP' 04 25 10
Resolute
eP' 04 25 20

DECEMBER 7
Resolute
eP 04 31 37

DECEMBER 7
U.S. C. G. S.
44.9N, 149.0E
Kurile Islands
H = 06 47 47.0
h 33 km
Mag 4.6 (CGS)
Coppermine
eP 06 56 50
Frobisher
iP 06 58 43 c
Mould Bay
eP 06 56 20 c
Resolute
eP 06 57 06

Yellowknife
iP 06 57 11 (d)

DECEMBER 7
U.S. C. G. S.
45.1N, 149.8E
Kurile Islands
H = 06 53 18.1
h 40 km
Mag 4.3 (CGS)
Resolute
eP 07 02 33
Yellowknife
e 07 02 38

DECEMBER 7
U.S. C. G. S.
30.9N, 51.3E
Southern Iran
H = 09 06 41.3
h 64 km
Mag —
Frobisher
eP 09 18 15
Mould Bay
eP 09 18 06
Yellowknife
eP 09 19 (17)

DECEMBER 7
Mould Bay
eP 09 27 46 c

DECEMBER 7
U.S. C. G. S.
45.8N, 153.0E
Kurile Islands Region
H = 11 25 54.1
h 55 km
MAG 4.1 (CGS)
Mould Bay
eP 11 34 08 c

DECEMBER 7
U.S. C. G. S.
12.3N, 143.9E
Mariana Islands Region
H = 15 17 57.3
h 33 km
MAG 5.1 (CGS)
Alert
eP 15 30 29 (d)
Coppermine
iP 15 30 19 d
Mould Bay
iP 15 30 03 d
Resolute
eP 15 30 35 d
Yellowknife
iP 15 30 27 c

DECEMBER 7
U.S. C. G. S.
29.3°S, 178.5W
Kermadec Islands
H = 17 37 25.6
h 209 km
MAG 4.9 (CGS)
Frobisher
eP 17 55 59
Mould Bay
eP 17 55 33
Resolute
eP 17 55 42

DECEMBER 8
Resolute
eP 04 08 51

DECEMBER 8
Yellowknife
e 04 22 (04)

DOMINION OBSERVATORIES

<p>DECEMBER 8 U.S.C.G.S. 46.4N, 153.0E Kurile Islands H = 07 53 15.1 h 20 km MAG 5.2 (CGS) Alert eP 08 02 10 Banff eP 08 02 56 Coppermine iP 08 02 00 d Edmonton eP 08 02 59 c Frobisher eP 08 03 57 Mould Bay eP 08 01 31 Resolute eP 08 02 18 Yellowknife iP 08 02 20</p>	<p>DECEMBER 8 U.S.C.G.S. 35.5N, 143.3E Off East Coast of Honshu, Japan H = 12 08 49.3 h 33 km MAG 4.0 (CGS) Alert e(P) 12 19 05 Mould Bay eP 12 18 38 d Resolute eP 12 19 19</p>	<p>Edmonton eP 20 41 37 Frobisher eP 20 42 33 Mould Bay eP 20 40 09 (c) Resolute eP 20 40 56 Yellowknife eP 20 40 59</p>
<p>DECEMBER 8 U.S.C.G.S. 39.9N, 58.7E Turkmen S.S.R. H = 11 08 04.7 h 33 km MAG 4.5 (CGS) Banff eP 11 21 04 Frobisher eP 11 18 49 Mould Bay eP 11 18 39 c</p>	<p>DECEMBER 8 U.S.C.G.S. 49.3N, 125.9W Clayoquot Sound H = 13 23 55 MAG 2.7 Alberni eP 13 24 07 D = 74 km Port Hardy eP 13 24 25.0 D = 192 km Victoria eP 13 24 25.2 D = 193 km</p>	<p>DECEMBER 8 U.S.C.G.S. 45.3N, 151.2E Kurile Islands H = 20 39 38.9 h 50 km MAG 4.3 (CGS) Alert eP 20 48 39 Edmonton eP 20 49 30 Frobisher eP 20 50 26 Mould Bay eP 20 48 02 (c) Resolute eP 20 48 48</p>
<p>DECEMBER 8 U.S.C.G.S. 45.3N, 151.3E Kurile Islands H = 20 31 45.7 h 40 km MAG 4.4 (CGS)</p>	<p>DECEMBER 8 U.S.C.G.S. 36.5N, 70.8E Hindu Kush H = 15 18 09.8 h 212 km Mould Bay eP 15 28 43</p>	<p>DECEMBER 9 U.S.C.G.S. 43.6N, 110.2W Western Wyoming H = 01 45 19.4 h 45 km MAG 4.0 (CGS) Yellowknife eP 01 49 42</p>

SEISMOLOGICAL BULLETIN - 1963

<p>DECEMBER 9 U.S.C.G.S. 45.6N, 151.4E Kurile Islands H = 02 24 08.5 h 55 km Mag 4.3 (CGS) Edmonton eP 02 33 57 Frobisher eP 02 34 53 Mould Bay eP 02 32 28 (c) Resolute eP 02 33 16 Yellowknife eP 02 33 18</p>	<p>DECEMBER 9 U.S.C.G.S. 44.0N, 150.4E Kurile Islands H = 08 33 57.6 h 50 km Mag 4.7 (CGS) Alert e(P) 08 43 08 Coppermine eP 08 43 01 c Edmonton eP 08 43 57 d Frobisher eP 08 44 53 Mould Bay eP 08 42 32 Resolute eP 08 43 18 Yellowknife eP 08 43 19</p>	<p>Resolute Pn 09 17 12 i 09 17 18 S₁ 09 17 46 D = 270 km Yellowknife Sn 09 22 06 Lg 09 23 24 D = 1500 km</p>
<p>DECEMBER 9 U.S.C.G.S. 54.9N, 159.4W Alaska Peninsula H = 05 38 29.5 h 45 km Mag 5.1 (CGS) Alert eP 05 45 36 (c) Coppermine iP 05 43 45 d Frobisher eP 05 46 29 d Mould Bay eP 05 44 02 (c) Ottawa eP 05 47 29 Resolute eP 05 44 49 Schefferville eP 05 47 16 c Victoria e 05 43 33 Yellowknife eP 05 43 43 d</p>	<p>DECEMBER 9 U.S.C.G.S. 72° 20'N, 91° 20'W Regent Inlet NWT H = 09 16 38.7 Mag 4.4 Coppermine Pn 09 18 50 Sn 09 20 29 Lg 09 21 22 D = 1010 km Frobisher Pn 09 19 26 Sn 09 21 33 Lg 09 22 45 D = 1275 km Mould Bay (Pn) 09 18 36 Sn 09 20 08 D = 935 km</p>	<p>DECEMBER 9 Edmonton eP 09 32 33 c</p> <p>DECEMBER 9 U.S.C.G.S. 21.1°S, 178.0W Fiji Islands Region H = 10 53 39.4 h 435 km Mag 5.0 (CGS) Banff eP 11 05 52 Edmonton eP 11 06 04 Victoria eP 11 05 28 Yellowknife eP 11 06 23</p>
<p>DECEMBER 9 U.S.C.G.S. 45.6N, 151.4E Kurile Islands H = 02 24 08.5 h 55 km Mag 4.3 (CGS) Edmonton eP 02 33 57 Frobisher eP 02 34 53 Mould Bay eP 02 32 28 (c) Resolute eP 02 33 16 Yellowknife eP 02 33 18</p>	<p>DECEMBER 9 U.S.C.G.S. 44.0N, 150.4E Kurile Islands H = 08 33 57.6 h 50 km Mag 4.7 (CGS) Alert e(P) 08 43 08 Coppermine eP 08 43 01 c Edmonton eP 08 43 57 d Frobisher eP 08 44 53 Mould Bay eP 08 42 32 Resolute eP 08 43 18 Yellowknife eP 08 43 19</p>	<p>DECEMBER 9 U.S.C.G.S. 21.1°S, 178.0W Fiji Islands Region H = 10 53 39.4 h 435 km Mag 5.0 (CGS) Banff eP 11 05 52 Edmonton eP 11 06 04 Victoria eP 11 05 28 Yellowknife eP 11 06 23</p>



DOMINION OBSERVATORIES

DECEMBER 9
U. S. C. G. S.
45.2N, 151.2E
Kurile Islands
H = 12 22 42.0
h 50 km
Mag 4.7 (CGS)
Alert
eP 12 31 42 (c)
Coppermine
eP 12 31 35 c
Frobisher
iP 12 33 29 c
Mould Bay
eP 12 31 05 c
Resolute
eP 12 31 52
Yellowknife
eP 12 31 54

DECEMBER 9
U. S. C. G. S.
45.3N, 151.2E
Kurile Islands
H = 12 29 01.6
h 45 km
Mag 4.4 (CGS)
Alert
eP 12 38 01
Edmonton
eP 12 38 53
Frobisher
eP 12 39 49
Mould Bay
eP 12 37 24
Yellowknife
eP 12 38 14

DECEMBER 9
Canadian Arctic
H = 15 01 09
Mag 4.4
Frobisher
Sn 15 04 16
Ig 15 04 57
D = 820 km

DECEMBER 9
Mould Bay
eP 15 49 00

DECEMBER 9
U. S. C. G. S.
36.1N, 71.2E
Hindu Kush
H = 18 01 55.0
h 157 km
Mag 5.0 (CGS)
Mould Bay
eP 18 12 37 c

DECEMBER 9
U. S. C. G. S.
43.7N, 150.9E
Kurile Islands
H = 21 08 17.0
h 50 km
Mag 4.3 (CGS)
Mould Bay
eP 21 16 53 (d)
Resolute
eP 21 17 40

DECEMBER 10
U. S. C. G. S.
34.8N, 134.7E
Honshu, Japan
H = 00 56 51.6
h 249 km
Mag 4.1 (CGS)
Frobisher
eP 01 08 30
Mould Bay
eP 01 06 35 c
Resolute
eP 01 07 13

DECEMBER 10
U. S. C. G. S.
5.4N, 82.5W
South of Panama
H = 02 32 04.6
h 35 km
Mag 4.2 (CGS)

Yellowknife
eP 02 42 21

DECEMBER 10
U. S. C. G. S.
6.2°S, 128.1E
Banda Sea
H = 03 31 21.1
h 366 km
Mag 5.6 (CGS)
Mould Bay
eP 03 44 32 d
Resolute
eP 03 45 00

DECEMBER 10
Coppermine
eP 03 54 53
Edmonton
eP 03 49 15
Frobisher
eP 03 49 32 c
Ottawa
eP 03 52 56 c
Schefferville
eP 03 52 37 c
Yellowknife
e 03 49 07

DECEMBER 10
U. S. C. G. S.
58.1°S, 26.4W
Sandwich Islands
H = 06 30 54.8
h 110 km
Alert
eP' 06 50 07



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Edmonton
eP' 06 49 (50)
Frobisher
eP' 06 49 43 d
Mould Bay
eP' 06 50 18 d
Resolute
eP' 06 50 02
Schefferville
eP' 06 49 26
Yellowknife
eP' 06 50 06

DECEMBER 10
Alert
iP 06 53 36 d
Banff
eP 06 53 00
Victoria
eP 06 52 32
Yellowknife
iP 06 53 27

DECEMBER 10
U. S. C. G. S.
8.7°S, 79.8°W
Near Coast of Peru
H = 07 26 36.5
h 33 km
MAG 4.5 (CGS)
Mould Bay
eP 07 39 24

DECEMBER 10
U. S. C. G. S.
45.8N, 151.7E
Kurile Islands
H = 09 28 38.6
h 50 km
MAG 4.7 (CGS)
Alert
e(P) 09 37 38
Edmonton
eP 09 38 26
Yellowknife
eP 09 37 47 (c)

DECEMBER 10
U. S. C. G. S.
7.2N, 125.1E
Near East Coast of
Mindanao, P. I.
H = 13 08 08.7
h 33 km
MAG 4.7 (CGS)
Mould Bay
eP 13 21 01

DECEMBER 10
U. S. C. G. S.
18.1°S, 68.5°W
Western Bolivia
H = 14 49 42.6
h 79 km
MAG 5.3 (CGS)
Banff
eP 15 01 44
Edmonton
eP 15 01 49 d
Victoria
eP 15 01 53
Yellowknife
eP 15 02 27 d

DECEMBER 10
U. S. C. G. S.
36.3N, 137.1E
Near West Coast of
Honshu, Japan
H = 17 27 02.2
h 247 km
MAG 4.1 (CGS)
Mould Bay
eP 17 36 32 d

DECEMBER 10
U. S. C. G. S.
17.1N, 60.4W
Leeward Islands Region
H = 20 03 13.0
h 33 km
MAG 4.5 (CGS)
Alert
eP 20 13 54

Edmonton
eP 20 12 39
Frobisher
eP 20 11 42
Mould Bay
iP 20 14 00 d
Resolute
eP 20 13 (25)
Schefferville
e(P) 20 10 30

DECEMBER 11
U. S. C. G. S.
15.1°S, 173.6W
Tonga Islands Region
H = 00 47 48.3
h 33 km
MAG 5.6 (CGS)
Banff
eP 01 00 10
Edmonton
eP 01 00 23 (c)
Mould Bay
eP 01 01 (17)
Victoria
eP 00 59 42 (c)

DECEMBER 11
U. S. C. G. S.
17.8°S, 178.6W
Fiji Islands
H = 02 31 19.4
h 537 km
MAG 4.9 (CGS)
Banff
iP 02 43 12
Coppermine
iP 02 43 53 c
Edmonton
iP 02 43 23 c
Mould Bay
eP 02 44 08 c
Victoria
iP 02 42 46 c

DOMINION OBSERVATORIES

DECEMBER 11	Coppermine	DECEMBER 11
U.S.C.G.S.	eP 17 15 (02)	U.S.C.G.S.
45.3N, 150.1E	Edmonton	51.0N, 179.3W
Kurile Islands	eP 17 15 (39)	Andreanof Islands,
H = 09 12 15.5	Frobisher	Aleutian Islands
h 43 km	eP 17 17 29 (c)	H = 17 43 17.4
MAG 4.5 (CGS)	Mould Bay	h 33 km
Edmonton	eP 17 14 54 c	MAG 4.5 (CGS)
eP 09 22 11 d	Resolute	Frobisher
	eP 17 15 46	eP 17 52 34
	i 17 17 50	Mould Bay
DECEMBER 11	Schefferville	eP 17 50 00 c
U.S.C.G.S.	eP 17 18 19	
32.1N, 130.2E	Victoria	DECEMBER 11
Near West Coast of	eP 17 15 07 c	U.S.C.G.S.
Kyushu, Japan		51.0N, 179.7W
H = 09 22 36.0	DECEMBER 11	Andreanof Islands,
h 170 km	U.S.C.G.S.	Aleutian Islands
MAG 4.2 (CGS)	51.1N, 179.4W	H = 18 09 17.2
Mould Bay	Andreanof Islands,	h 33 km
eP 09 32 51 c	Aleutian Islands	MAG 4.6 (CGS)
	H = 17 12 45.1	Frobisher
DECEMBER 11	h 33 km	eP 18 18 36 d
Mould Bay	MAG 4.7 (CGS)	Mould Bay
iP 12 00 40 d	Alert	eP 18 16 01 (d)
	e(P) 17 20 43	DECEMBER 11
DECEMBER 11	Frobisher	U.S.C.G.S.
Edmonton	eP 17 22 03	51.3N, 179.2W
eP 12 52 (17)	Mould Bay	Andreanof Islands,
	eP 17 19 27	Aleutian Islands
DECEMBER 11		H = 18 28 48.3
Edmonton	DECEMBER 11	h 33 km
eP 13 49 (59)	U.S.C.G.S.	MAG 4.7 (CGS)
	51.3N, 179.5W	Alert
DECEMBER 11	Andreanof Islands,	e(P) 18 36 45
Mould Bay	Aleutian Islands	Frobisher
eP 15 07 (09)	H = 17 25 12.5	eP 18 38 05
	h 33 km	Mould Bay
DECEMBER 11	MAG 4.9 (CGS)	eP 18 35 29 c
U.S.C.G.S.	Alert	
51.2N, 179.3E	iP 17 33 09 c	
Andreanof Islands,	Frobisher	
Aleutian Islands	eP 17 34 29 c	
H = 17 08 12.3	Mould Bay	
h 32 km	eP 17 31 54 c	
MAG 5.3 (CGS)	Resolute	
Alert	eP 17 32 47	
eP 17 16 09 c		

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 11	Coppermine	DECEMBER 13
U.S.C.G.S.	iP 21 05 20 d	Coppermine
51.3N, 179.5W	Edmonton	eP 02 07 51
Andreanof Islands	iP 21 04 11 d	DECEMBER 13
Aleutian Islands	Frobisher	Coppermine
H = 19 12 59.6	eP 21 04 12	eP 02 45 02
h 54 km	Mould Bay	DECEMBER 13
MAG 4.7 (CGS)	iP 21 06 02 d	U.S.C.G.S.
Alert	Resolute	25.9N, 126.1E
eP 19 20 54 c	eP 21 05 32 d	Ryukyu Islands
Frobisher	Schefferville	H = 02 47 14.0
iP 19 22 14 d	eP 21 03 09 d	h 109 km
Mould Bay	Victoria	MAG 4.6 (CGS)
eP 19 19 39	eP 21 04 31	Coppermine
Resolute	Yellowknife	eP 02 58 50
eP 19 20 31	eP 21 04 57 c	Mould Bay
		eP 02 58 18 (c)
DECEMBER 12	DECEMBER 12	Resolute
U.S.C.G.S.	U.S.C.G.S.	eP 02 58 51
18.7N, 107.0W	46.3N, 150.5E	DECEMBER 13
Off Coast of Jalisco, Mexico	Kurile Islands	U.S.C.G.S.
H = 00 38 24.6	H = 23 24 36.6	2.7°S, 78.4W
h 33 km	h 90 km	Ecuador
MAG 4.5 (CGS)	MAG 5.2 (CGS)	H = 04 16 13.5
Coppermine	Alert	h 109 km
eP 00 47 12 c	eP 23 33 25	MAG 4.5 (CGS)
Edmonton	Banff	Mould Bay
eP 00 45 (14)	iP 23 34 21	eP 04 28 19 d
Mould Bay	Coppermine	Victoria
eP 00 48 14 d	iP 23 33 20 d	eP 04 26 39
DECEMBER 12	Edmonton	DECEMBER 13
Coppermine	iP 23 34 20 d	Coppermine
eP 20 38 32	Frobisher	eP 04 45 00
DECEMBER 12	eP 23 35 14 d	DECEMBER 13
U.S.C.G.S.	Mould Bay	U.S.C.G.S.
5.7N, 73.1W	iP 23 32 49 d	6.9N, 77.1W
Colombia	Resolute	Northern Colombia
H = 20 54 34.8	eP 23 33 36 d	H = 05 28 07.3
h 140 km	Victoria	h 33 km
MAG 4.9 (CGS)	eP 23 34 02 (c)	MAG 4.0 (CGS)
Alert	Yellowknife	Victoria
eP 21 06 13 d	iP 23 33 40 c	eP 05 37 53
Banff	DECEMBER 13	
eP 21 04 10	Coppermine	
	eP 01 04 55	

DOMINION OBSERVATORIES

DECEMBER 13
Coppermine
eP 06 11 35

DECEMBER 13
Coppermine
eP 07 46 09

DECEMBER 13
U.S.C.G.S.
56.2N, 159.0E
Alaska Peninsula
H = 12 15 19.9
h 149 km
MAG 4.2 (CGS)
Coppermine
iP 12 20 19 d
Edmonton
eP 12 20 44 d
Frobisher
eP 12 23 04
Mould Bay
eP 12 20 34 d

DECEMBER 13
Coppermine
eP 13 38 11

DECEMBER 13
Mould Bay
eP 13 53 36 d

DECEMBER 13
U.S.C.G.S.
14.5N, 91.9W
Guatemala
H = 19 57 27.4
h 139 km
MAG 4.0 (CGS)
Mould Bay
eP 20 07 43

DECEMBER 13
U.S.C.G.S.
44.3N, 149.1E
H = 22 20 19.4
h 40 km
MAG 4.4 (CGS)
Coppermine
eP 22 29 (25)
Edmonton
eP 22 30 24
Resolute
eP 22 29 39

DECEMBER 14
U.S.C.G.S.
2.3°S, 61.2°W
Northern Brazil
H = 00 05 39.8
h 36 km
MAG 4.8 (CGS)
Alert
eP 00 18 10 (c)
Coppermine
eP 00 17 41 d
Edmonton
eP 00 16 50
Frobisher
eP 00 16 23 d
Mould Bay
eP 00 18 12 d
Resolute
eP 00 17 43
Schefferville
eP 00 15 37 c

DECEMBER 14
U.S.C.G.S.
5.2°S, 151.7E
New Britain Region
H = 01 56 09.7
h 54 km
MAG 4.9 (CGS)
Coppermine
eP 02 09 32 d

DECEMBER 14
U.S.C.G.S.
45.4N, 150.1E
Kurile Islands
H = 03 44 01.1
h 33 km
MAG 4.6 (CGS)
Coppermine
eP 03 52 57
Edmonton
eP 03 53 57 c
Yellowknife
iP 03 53 17

DECEMBER 14
U.S.C.G.S.
44.5N, 151.7E
Kurile Islands
H = 06 49 34.6
h 45 km
MAG 4.5 (CGS)
Mould Bay
eP 06 58 08
Resolute
eP 06 58 (55)

DECEMBER 14
U.S.C.G.S.
62.7N, 149.5W
Central Alaska
H = 07 51 07.9
h 95 km
MAG 5.1 (CGS)
Alert
eP 07 56 52
Banff
eP 07 55 50
Coppermine
iP 07 54 33 c
Edmonton
iP 07 55 45 d
Frobisher
iP 07 57 46 d
Halifax
iP 07 59 52.5 d

SEISMOLOGICAL BULLETIN - 1963

Mould Bay
eP 07 54 57 d
Ottawa
iP 07 59 05 (d)
Resolute
eP 07 55 56 d
Schefferville
eP 07 58 41 (c)
Victoria
eP 07 55 38
Yellowknife
eP 07 54 45 (d)

DECEMBER 14
U.S.C.G.S.
5.0N, 82.6W
South of Panama
H = 10 26 47.0
h 33 km
MAG 4.5 (CGS)
Edmonton
eP 10 36 11 (d)
Yellowknife
eP 10 37 05

DECEMBER 14
Mould Bay
eP 12 43 29 d

DECEMBER 15
Canadian Arctic
H = 01 26 02
MAG 4.5
Frobisher
Sn 01 29 09
Lg 01 29 50
D = 820 km

DECEMBER 15
Yellowknife
eP 02 53 09

DECEMBER 15
U.S.C.G.S.
44.3N, 149.5E
Kurile Islands
H = 03 20 18.1
h 15 km
MAG 4.0 (CGS)
Mould Bay
eP 03 28 56
Resolute
eP 03 29 42

DECEMBER 15
U.S.C.G.S.
52.6N, 169.3W
Fox Islands,
Aleutian Islands
H = 03 39 49.4
h 26 km
MAG 3.9 (CGS)
Mould Bay
eP 03 46 00 (c)
Yellowknife
eP 03 45 58

DECEMBER 15
Canadian Arctic
H = 03 50 53
MAG 4.4
Frobisher
Sn 03 54 00
Lg 03 54 40
D = 820 km

DECEMBER 15
71.4°N, 73.3°W
Near East Coast of
Baffin Island, NWT
H = 05 17 53
MAG 4.5
Frobisher
Sn 05 21 00
Lg 05 21 42
D = 820 km
Resolute
Lg 05 21 40
D = 829 km

DECEMBER 15
Coppermine
eP 06 59 01

DECEMBER 15
U.S.C.G.S.
28.6°N, 129.9°E
Ryukyu Islands
H = 07 02 36.5
h 33 km
MAG 4.8 (CGS)
Edmonton
eP 07 14 54 c
Frobisher
eP 07 15 18
Mould Bay
eP 07 13 28 c
Resolute
eP 07 14 04 d
Yellowknife
iP 07 14 20

DECEMBER 15
U.S.C.G.S.
34.3N, 88.8°E
Tibet
H = 07 33 20.2
h 33 km
MAG 4.8 (CGS)
Coppermine
eP 07 45 08
Mould Bay
eP 07 44 19
Yellowknife
eP 07 45 36

DECEMBER 15
U.S.C.G.S.
44.1N, 149.2E
Kurile Islands
H = 10 22 53.7
h 45 km
MAG 4.1 (CGS)
Resolute
eP 10 32 (16)

DOMINION OBSERVATORIES

DECEMBER 15
Coppermine
eP 12 08 13

DECEMBER 15
U.S.C.G.S.
44.3N, 150.3E
Kurile Islands
H = 13 12 15.1
h 45 km
MAG 4.2 (CGS)
Mould Bay
eP 13 20 (46)
Resolute
eP 13 21 32

DECEMBER 15
50°3N, 129°1W
West of Vancouver Isle.
H = 15 44 22
MAG 4.0
Alberni
eP 15 45 09
D = 330 km
Coppermine
eP 15 48 37
Edmonton
eP 15 46 (52)
Mould Bay
eP 15 49 43
Port Hardy
eP 15 44 41.8
D = 122 km
Resolute
eP 15 50 (08)
D = 462 km

DECEMBER 15
U.S.C.G.S.
10.9°S, 164.2°E
Solomon Islands Region
H = 16 54 23.6
h 33 km
MAG 4.2 (CGS)
Coppermine
eP 17 03 37 d

Mould Bay
eP 17 04 35 (d)

DECEMBER 15
Coppermine
eP 19 48 10
Edmonton
eP 19 49 (06)
Frobisher
eP 19 49 (03)
Yellowknife
eP 19 48 30

DECEMBER 15
U.S.C.G.S.
4.8°S, 108.0°E
Java Sea
H = 19 34 45.5
h 650 km
MAG 6.4 (CGS)
Alert
eP 19 47 34 d
Mould Bay
eP 19 47 41
Resolute
eP 19 48 04
Banff
iP' 19 52 27
Coppermine
iP' 19 52 16 d
Edmonton
iP' 19 52 27 d
Frobisher
eP' 19 52 26 d
Halifax
iP' 19 52 55 d
London
eP' 19 53 00 d
Ottawa
eP' 19 52 53
Scarboro
eP' 19 52 58 (d)
Victoria
iP' 19 52 23 c
Yellowknife
iP' 19 52 14

DECEMBER 15
Alert
e(P) 20 03 34
Mould Bay
eP 20 03 28
Yellowknife
iP 20 02 55

DECEMBER 16
U.S.C.G.S.
6.4°S, 105.4E
Sunda Strait
H = 01 51 30.6
h 64 km
MAG 6.0 (CGS)
Alert
e(P) 02 05 27
Banff
eP' 02 10 24
Coppermine
eP' 02 10 01
Edmonton
eP' 02 10 22
Frobisher
eP' 02 10 19
London
eP' 02 11 01
Mould Bay
eP 02 05 40
Ottawa
eP' 02 10 (55)
Resolute
eP' 02 09 59
Schefferville
eP' 02 10 (40)
Victoria
eP' 02 10 20
Yellowknife
iP' 02 10 08

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 16
U.S.C.G.S.
6.3°S, 105.5E
Near West Coast
of Sumatra
H = 02 06 38.2
h 33 km
Coppermine
eP 02 25 17 (c)
Edmonton
eP 02 25 34

DECEMBER 16
Coppermine
eP 05 20 43 d
Mould Bay
eP 05 20 53 d

DECEMBER 16
U.S.C.G.S.
17.1N, 147.0E
Mariana Islands Region
H = 05 17 14.4
h 48 km
MAG 4.6 (CGS)
Mould Bay
eP 05 28 49 d

DECEMBER 16
Edmonton
eP 06 18 45
Frobisher
eP 06 20 54 (d)
Mould Bay
eP 06 18 21

DECEMBER 16
U.S.C.G.S.
12.2N, 88.4W
Off Coast of El Salvador
H = 06 23 20.4
h 34 km
Banff
eP 06 31 32
Coppermine
eP 06 33 18

Edmonton
iP 06 31 37 c
Frobisher
eP 06 32 36
Mould Bay
eP 06 34 05 c
Yellowknife
iP 06 32 39 d

DECEMBER 16
Coppermine
eP 09 37 42

DECEMBER 16
U.S.C.G.S.
45.8N, 142.6E
Southern Sakhalin
H = 11 09 30.4
h 258 km
Alert
eP 11 18 09
Banff
eP 11 19 28
Coppermine
eP 11 18 15
Edmonton
eP 11 19 (21)
Frobisher
iP 11 20 03 d
Mould Bay
eP 11 17 40
Resolute
eP 11 18 28
Victoria
eP 11 19 12
Yellowknife
iP 11 18 42 c

DECEMBER 16
U.S.C.G.S.
37.1°N, 20.9°E
Ionian Sea
H = 13 47 56.4
h 15 km
MAG 5.6 (CGS)
Alert
eP 13 57 10 c
Banff
eP 14 00 29
Coppermine
eP 13 59 10
Edmonton
eP 14 00 15 c
Frobisher
eP 13 57 45 (c)
London
eP 13 59 29
Mould Bay
eP 13 58 31 c
Resolute
eP 13 58 09 c
Schefferville
eP 13 57 59 d
Victoria
eP 14 00 53
Yellowknife
iP 13 59 35 c

DECEMBER 16
U.S.C.G.S.
49.1°S, 127.1E
2000 km South of Australia
H = 14 18 04.9
h 33 km
MAG 5.3 (CGS)
Alert
e(P) 14 37 44
Coppermine
iP' 14 37 37 c
Edmonton
eP' 14 37 34

DOMINION OBSERVATORIES

Mould Bay
eP' 14 37 31

Resolute
eP' 14 37 49

Yellowknife
eP' 14 37 37 c

DECEMBER 16
U.S.C.G.S.
6.5°S, 105.3°E
Sunda Strait
H = 16 06 35.2
h 46 km
MAG 6.0 (CGS)
Edmonton
eP' 16 25 30

DECEMBER 16
U.S.C.G.S.
1.6°S, 78.0°W
Ecuador
H = 16 41 09.5
h 170 km
MAG 4.8 (CGS)
Coppermine
iP 16 52 27 d
Mould Bay
iP 16 53 08 d

DECEMBER 17
Coppermine
eP 02 48 33

DECEMBER 17
Canadian Arctic
H = 03 17 06
MAG 4.5
Frobisher
Sn 03 21 13
Lg 03 21 54
D = 820 km

DECEMBER 17
U.S.C.G.S.
22.2N, 144.4E
Volcano Islands Region
H = 04 12 38.5
h 101 km
MAG 4.4 (CGS)
Alert
eP 04 24 09
Coppermine
eP 04 24 01
Mould Bay
eP 04 23 41
Yellowknife
eP 04 24 13

DECEMBER 17
Coppermine
eP 06 00 15

DECEMBER 17
Coppermine
eP 08 10 35

DECEMBER 17
Coppermine
eP 08 29 56

DECEMBER 17
Coppermine
eP 08 54 53

DECEMBER 17
Coppermine
eP 09 00 14

DECEMBER 17
U.S.C.G.S.
36.7N, 71.2E
Hindu Kush
H = 10 58 12.0
h 203 km
MAG 4.2 (CGS)
Mould Bay
iP 11 08 45 d

Yellowknife
eP 11 10 05

DECEMBER 17
Mould Bay
eP 11 17 22

DECEMBER 17
U.S.C.G.S.
45.6N, 151.7E
Kurile Islands
H = 13 52 31.0
h 33 km
MAG 3.9 (CGS)
Yellowknife
eP 14 01 41

DECEMBER 17
Coppermine
eP 15 04 06

DECEMBER 17
Coppermine
eP 16 49 10

DECEMBER 17
Coppermine
eP 16 56 18

DECEMBER 17
Coppermine
eP 19 51 02

DECEMBER 17
Coppermine
eP 20 50 32

DECEMBER 17
Coppermine
eP 22 20 32 c

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 17
U.S.C.G.S.
52.9N, 165.4W
Fox Islands,
Aleutian Islands
H = 23 22 11.2
h 33 km
MAG 4.9 (CGS)
Alert
eP 23 29 44
Coppermine
eP 23 28 03
Edmonton
eP 23 28 26 d
Frobisher
iP 23 30 44 (d)
London
eP 23 31 34
Mould Bay
eP 23 28 14 (c)
Resolute
eP 23 29 03 c
Schefferville
iP 23 31 30 c
Yellowknife
iP 23 28 03

DECEMBER 17
Coppermine
eP 23 39 20

DECEMBER 18
Coppermine
eP 00 04 (38)

DECEMBER 18
U.S.C.G.S.
24.8°S, 176.6°W
Tonga Islands
H = 00 30 02.6
h 46 km
MAG 6.5 (CGS)
Alert
eP' 00 48 43
Banff
eP 00 43 08

Coppermine
eP 00 43 57 c

Edmonton
eP 00 43 20 d

Frobisher
iP' 00 48 47

Halifax
iP' 00 48 55 (d)

London
eP' 00 48 32

Mould Bay
eP 00 44 15

Ottawa
eP' 00 48 38

Schefferville
eP' 00 48 51

Victoria
eP 00 42 46

Yellowknife
eP 00 43 42

DECEMBER 18
Alert
e(P) 00 59 07
Frobisher
iP 00 58 58 d
London
eP 00 59 34
Ottawa
eP 00 59 (10)
Yellowknife
iP 01 00 01
Resolute
eP 01 29 38

DECEMBER 18
U.S.C.G.S.
45.5°N, 151.3°E
Kurile Islands
H = 02 50 31.0
h 33 km
MAG 5.2 (CGS)
Alert
eP 02 59 31 c
Coppermine
eP 02 59 23

Edmonton
iP 03 00 22 c

Frobisher
eP 03 01 19 c

Mould Bay
eP 02 58 52

Resolute
eP 02 59 40

Yellowknife
iP 02 59 43 (d)

DECEMBER 18
Edmonton
eP 03 18 52 c

DECEMBER 18
U.S.C.G.S.
41.7N, 82.5E
Sinkiang Province, China
H = 06 40 05.9
h 33 km
MAG 5.2 (CGS)
Alert
eP 06 49 33
Coppermine
iP 06 51 14 c
Edmonton
eP 06 52 36 c
Frobisher
eP 06 51 29
Mould Bay
iP 06 50 20 c
Resolute
eP 06 50 35 c
Yellowknife
iP 06 51 45 d

DECEMBER 18
U.S.C.G.S.
43.7N, 126.9W
Off Coast of Oregon
H = 10 06 51.0
h 33 km
MAG 4.2 (CGS)
Yellowknife
e(P) 10 11 27

DOMINION OBSERVATORIES

DECEMBER 18
U.S.C.G.S.
37.2N, 140.7E
Near Coast of
Honshu, Japan
H = 18 13 15.8
h 59 km
MAG 4.2 (CGS)
Coppermine
eP 18 23 26
Frobisher
eP 18 25 02
Mould Bay
eP 18 22 54 (d)
Resolute
eP 18 23 36

DECEMBER 18
Schefferville
eP 21 59 (32)

DECEMBER 18
Coppermine
eP 23 57 03
Yellowknife
e 23 56 39

DECEMBER 19
Coppermine
eP 00 47 27

DECEMBER 19
Coppermine
eP 04 45 34

DECEMBER 19
Mould Bay
eP 11 26 39

DECEMBER 19
Canadian Arctic
H = 15 14 30
MAG 4.5
Frobisher
Sn 15 17 37
Lg 15 18 20
D = 820 km

DECEMBER 19
U.S.C.G.S.
9.7°S, 79.1W
Near Coast of
Central Peru
H = 17 04 07.8
h 56 km
MAG 5.1 (CGS)
Alert
eP 17 17 13 c
Banff
eP 17 15 03
Coppermine
P 17 16 19 c
Edmonton
iP 17 15 09 c
Frobisher
iP 17 15 36 c
Mould Bay
iP 17 16 58 c
Resolute
eP 17 16 36
Schefferville
eP 17 14 43 c
Victoria
eP 17 15 14 (d)
Yellowknife
iP 17 15 56 d

DECEMBER 19
U.S.C.G.S.
52.0N, 170.8W
Fox Islands,
Aleutian Islands
H = 22 34 59.8
h 33 km
MAG 4.4 (CGS)
Alert
eP 22 42 43 (c)
Coppermine
eP 22 41 15
Edmonton
eP 22 41 43 (c)
Frobisher
eP 22 43 51 c

Mould Bay
iP 22 41 19 c
Resolute
eP 22 42 08
Schefferville
eP 22 44 39
Yellowknife
eP 22 41 18

DECEMBER 19
U.S.C.G.S.
35.2°S, 68.0W
Mendoza Province,
Argentina
H = 20 33 50.1
h 32 km
MAG 5.3 (CGS)
Mould Bay
eP 20 52 (29)

DECEMBER 20
U.S.C.G.S.
8.6°S, 160.4°E
Solomon Islands
H = 00 23 50.2
h 69 km
MAG 5.5 (CGS)
Coppermine
eP 00 37 10 d
Mould Bay
eP 00 37 10
Yellowknife
e 00 37 07

DECEMBER 20
U.S.C.G.S.
45.0N, 147.4E
Kurile Islands
H = 04 09 15.1
h 50 km
MAG 5.1 (CGS)
Coppermine
eP 04 18 18
Edmonton
eP 04 19 21 c

SEISMOLOGICAL BULLETIN - 1963

Resolute
eP 04 18 29
Yellowknife
iP 04 18 40

DECEMBER 20
U.S.C.G.S.
7.0°S, 129.3E
Banda Sea
H = 08 57 17.8
h 103 km
MAG 5.5 (CGS)
Coppermine
eP 09 11 20
Edmonton
eP' 09 15 42
Frobisher
eP' 09 16 01
Mould Bay
eP 09 11 00

DECEMBER 20
Resolute
eP 09 15 (33)

DECEMBER 20
Coppermine
eP 09 30 24

DECEMBER 20
U.S.C.G.S.
5.2°S, 80.8°W
Near Coast of
Northern Peru
H = 10 48 04.2
h 55 km
MAG 5.2 (CGS)
Alert
eP 11 00 50 c
Banff
eP 10 58 33
Coppermine
eP 10 59 50 c
Edmonton
eP 10 58 35 c

Frobisher
eP 10 59 07
Mould Bay
iP 11 00 32 c
Resolute
eP 11 00 09
Victoria
eP 10 58 42
Yellowknife
iP 10 59 25 c

DECEMBER 20
U.S.C.G.S.
44.9N, 111.7W
Hebgen Lake,
Montana Area
H = 13 00 50.7
h 33 km
MAG 4.3 (CGS)
Banff
iP 13 02 32
Coppermine
eP 13 05 55
Edmonton
eP 13 02 50 (c)
Victoria
eP 13 02 57
Yellowknife
eP 13 04 54

DECEMBER 20
Coppermine
eP 13 12 (42)
Frobisher
eP 13 13 49

DECEMBER 20
U.S.C.G.S.
12.6°S, 66.4°E
Indian Ocean
H = 16 46 14.4
h 33 km
MAG 4.9 (CGS)
Coppermine
eP' 17 05 (10)

DECEMBER 20
Mould Bay
eP 17 28 53

DECEMBER 20
U.S.C.G.S.
51.8°N, 177.7W
Andreanof Islands,
Aleutian Islands
H = 17 29 48.7
h 33 km
MAG 4.4 (CGS)
Mould Bay
eP 17 36 23

DECEMBER 20
49°6N, 124°2W
Near Jervis Inlet
H = 19 11 06
MAG 2.4
Alberni
eP 19 11 16.3
D = 63 km
Port Hardy
eP 19 11 45.7
D = 269 km
Victoria
eP 19 11 28.5
D = 139 km

DECEMBER 20
Mould Bay
eP 20 21 (08)

DECEMBER 20
U.S.C.G.S.
31.6N, 141.8E
South of Honshu, Japan
H = 21 48 46.7
h 33 km
MAG 4.2 (CGS)
Coppermine
eP 21 59 (29)

DOMINION OBSERVATORIES

DECEMBER 20
U.S.C.G.S.
13.2N, 88.0W
Near Coast of El Salvador
H = 22 28 31.2
h 64 km
MAG 4.3 (CGS)
Coppermine
eP 22 38 13

DECEMBER 21
U.S.C.G.S.
33.8N, 51.5E
Iran
H = 04 50 39.7
h 51 km
MAG 4.5 (CGS)
Mould Bay
eP 05 01 (52)

DECEMBER 21
Mould Bay
eP 07 15 20 c
Resolute
eP 07 16 01

DECEMBER 21
U.S.C.G.S.
21.2°S, 175.8°W
Tonga Islands
H = 12 34 22.7
h 90 km
MAG 5.1 (CGS)
Banff
eP 12 47 04
Coppermine
eP 12 47 54
Edmonton
eP 12 47 20 (d)
Mould Bay
eP 12 48 14
Victoria
eP 12 46 43
Yellowknife
eP 12 47 40 c

DECEMBER 21
U.S.C.G.S.
16.1N, 119.7E
Near West Coast of
Luzon, P.I.
H = 13 09 09.6
h 49 km
MAG 5.6 (CGS)
Alert
eP 13 21 24 (c)
Coppermine
eP 13 21 52 c
Edmonton
eP 13 22 40
Frobisher
eP 13 22 (53)
Mould Bay
eP 13 21 23
Resolute
eP 13 21 50 c
Yellowknife
iP 13 22 10 c

DECEMBER 21
U.S.C.G.S.
32.5N, 141.0E
South of Honshu, Japan
H = 16 23 17.9
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 16 33 30 c

DECEMBER 21
Yellowknife
iP 18 40 38 c

DECEMBER 21
Mould Bay
eP 18 58 (18)
Yellowknife
iP 18 58 02

DECEMBER 22
U.S.C.G.S.
14.3N, 93.0W
Off Coast of
Chiapas, Mexico
H = 01 20 11.0
h 33 km
MAG 4.4 (CGS)
Coppermine
eP 01 29 44
Edmonton
eP 01 27 (59)
Frobisher
eP 01 29 (20)
Mould Bay
eP 01 30 40 c
Resolute
eP 01 30 (18)
Yellowknife
iP 01 29 07

DECEMBER 22
48°5N, 120°1W
Washington, U.S.A.
H = 02 54 08
MAG 3.7
Alberni
eP 02 54 59.2
D = 364 km
Penticton
P 02 54 23
D = 93 km
Victoria
eP 02 54 44.6
D = 244 km

DECEMBER 22
Mould Bay
eP 05 49 06

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 22
U.S.C.G.S.
6.1°S, 146.9E
North-East New Guinea
H = 11 57 27.4
h 102 km
MAG 5.4 (CGS)
Mould Bay
eP 12 10 47
Yellowknife
eP 12 10 59

DECEMBER 22
Coppermine
eP 17 08 (14)
Mould Bay
eP 17 08 (08)

DECEMBER 22
U.S.C.G.S.
45.3N, 151.2E
Kurile Islands
H = 20 10 30.0
h 45 km
MAG 4.1 (CGS)
Coppermine
eP 20 19 24

DECEMBER 22
U.S.C.G.S.
6.9°N, 73.0W
Colombia
H = 23 13 55.2
h 153 km
MAG 5.2 (CGS)
Alert
iP 23 25 25 c
Banff
eP 23 23 22
Coppermine
iP 23 24 32 c
Edmonton
iP 23 23 23 c
Frobisher
iP 23 23 24 c

Halifax
eP 23 21 05 c
London
eP 23 20 50 c
Mould Bay
iP 23 25 14 c
Ottawa
eP 23 21 04 c
Resolute
eP 23 24 44 c
Schefferville
iP 23 22 21 c
Yellowknife
iP 23 24 09 d

DECEMBER 23
U.S.C.G.S.
44.4°N, 114.8°W
Central Idaho
H = 00 15 01.4
h 33 km
MAG 5.1 (CGS)
Edmonton
eP 00 17 (13)

DECEMBER 23
Edmonton
eP 03 20 (40)

DECEMBER 23
Mould Bay
eP 05 06 28 (c)

DECEMBER 23
Mould Bay
eP 06 02 (30)

DECEMBER 23
Yellowknife
eP 09 09 28

DECEMBER 23
U.S.C.G.S.
43.8N, 150.5E
Kurile Islands
H = 13 42 23.3
h 33 km
MAG 4.7 (CGS)
Coppermine
eP 13 51 28
Frobisher
eP 13 53 (20)
Mould Bay
eP 13 51 01
Resolute
eP 13 51 47
Yellowknife
iP 13 51 47 (c)

DECEMBER 23
Yellowknife
eP 17 22 58

DECEMBER 23
U.S.C.G.S.
44.1N, 149.4E
Kurile Islands
H = 18 39 46.6
h 65 km
MAG 4.8 (CGS)
Coppermine
eP 18 48 (50)
Edmonton
eP 18 49 47 (c)
Frobisher
eP 18 50 41 c
Mould Bay
eP 18 48 19
Resolute
eP 18 49 05
Yellowknife
iP 18 49 09 c

DOMINION OBSERVATORIES

DECEMBER 23 U.S.C.G.S. 12.3N, 72.8°W Off North Coast of Colombia H = 22 34 22.1 h 33 km MAG 4.5 (CGS) Coppermine eP 22 44 (40) Edmonton eP 22 43 (29) Mould Bay eP 22 45 23 (d) Schefferville eP 22 42 19 d Yellowknife eP 22 44 14	DECEMBER 24 U.S.C.G.S. 45.2N, 151.4E Kurile Islands H = 02 26 01.4 h 50 km MAG 4.5 (CGS) Alert eP 02 35 01 (c) Coppermine eP 02 34 54 Edmonton eP 02 35 52 c Frobisher eP 02 36 48 c Mould Bay eP 02 34 24 Resolute eP 02 35 11 Yellowknife eP 02 35 14	Edmonton eP 03 10 47 c Frobisher iP 03 11 44 c Mould Bay eP 03 09 20 c Resolute eP 03 10 06 c Schefferville eP 03 12 35 Yellowknife iP 03 10 09
DECEMBER 23 Edmonton eP 23 21 (23)	DECEMBER 24 U.S.C.G.S. 6.6°S, 85.1W West of Peru H = 02 40 42.6 h 33 km MAG 4.3 (CGS) Edmonton eP 02 51 15 (c) Mould Bay eP 02 53 (17)	DECEMBER 24 U.S.C.G.S. 45.5N, 151.5E Kurile Islands H = 03 27 23.9 h 45 km MAG 4.8 (CGS) Alert eP 03 36 22 (c) Coppermine iP 03 36 15 c Edmonton eP 03 37 14 c Frobisher iP 03 38 10 c Mould Bay eP 03 35 46 c Resolute eP 03 36 32 c Yellowknife eP 03 36 35
DECEMBER 23 Coppermine eP 23 29 50	DECEMBER 24 U.S.C.G.S. 45.4N, 151.3E Kurile Islands H = 03 00 57.3 h 50 km MAG 4.9 (CGS) Alert eP 03 09 56 (c) Coppermine iP 03 09 49 c	DECEMBER 24 U.S.C.G.S. 55.9N, 161.0E Near East Coast of Kamchatka H = 10 38 23.3 h 110 km MAG 4.5 (CGS) Mould Bay eP 10 45 01
DECEMBER 24 Mould Bay eP 01 30 (08)	DECEMBER 24 U.S.C.G.S. 46.4N, 152.2E Kurile Islands H = 01 14 06.0 h 40 km MAG 4.8 (CGS) Mould Bay eP 01 22 (20)	
DECEMBER 24 Mould Bay eP 02 04 10		

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 24 U.S.C.G.S. 13.1°S, 166.7°E Santa Cruz Isle Region H = 11 18 15.2 h 61 km MAG 5.5 (CGS) Coppermine iP 11 31 43 c Frobisher eP' 11 36 (52) Mould Bay eP 11 31 50 Yellowknife eP 11 31 37	DECEMBER 24 U.S.C.G.S. 10.0N, 126.1E Siargao H = 14 24 59.6 h 33 km MAG 5.7 (CGS) Coppermine iP 14 38 00 d Mould Bay eP 14 37 38 c Yellowknife eP 14 38 15	Mould Bay eP' 21 25 06 Resolute eP' 21 25 22 Schefferville eP' 21 25 (42)
DECEMBER 24 Coppermine eP 11 53 (20)	DECEMBER 24 Coppermine eP 15 10 15	DECEMBER 25 U.S.C.G.S. 52.3N, 158.7E Near East Coast of Kamchatka H = 00 44 01.9 h 80 km MAG 4.7 (CGS) Edmonton eP 00 52 49 Mould Bay eP 00 51 14 Yellowknife e 00 52 (08)
DECEMBER 24 Coppermine eP 12 31 (39)	DECEMBER 24 Coppermine eP 16 24 57	DECEMBER 25 Coppermine eP 02 09 06
DECEMBER 24 U.S.C.G.S. 36.2N, 139.7E Honshu, Japan H = 12 55 46.4 h 70 km MAG 4.8 (CGS) Alert eP 13 05 54 c Coppermine eP 13 06 02 c Edmonton eP 13 06 57 Frobisher eP 13 07 38 c Mould Bay eP 13 05 31 c Resolute eP 13 06 12 Yellowknife eP 13 06 21	DECEMBER 24 U.S.C.G.S. 44.8N, 111.2W Hebgen Lake, Montana H = 17 54 19.8 h 33 km MAG 4.7 (CGS) Yellowknife eP 17 58 24	DECEMBER 25 Coppermine eP 03 29 09
	DECEMBER 24 U.S.C.G.S. 53.0°S, 159.5E Macquarie Island Region H = 21 05 54.6 h 33 km MAG 5.8 (CGS) Alert eP' 21 25 35 d Edmonton eP' 21 24 54 Frobisher eP' 21 25 39	DECEMBER 25 Coppermine eP 08 07 55
		DECEMBER 25 U.S.C.G.S. 52.0N, 172.1W Andreanof Islands, Aleutian Islands H = 09 00 02.7 h 45 km MAG 4.7 (CGS) Edmonton eP 09 06 50 (d) Mould Bay eP 09 06 20

DOMINION OBSERVATORIES

DECEMBER 25
Coppermine
eP 09 39 33

DECEMBER 25
Coppermine
eP 12 40 16

DECEMBER 25
Coppermine
eP 14 36 12

DECEMBER 25
Coppermine
eP 15 08 08

DECEMBER 25
U.S.C.G.S.
37.2N, 102.0E
Tsinghai Province, China
H = 16 14 08.4
h 33 km
MAG 4.6 (CGS)
Mould Bay
eP 16 24 39

DECEMBER 25
Mould Bay
eP 16 42 05

DECEMBER 25
Coppermine
eP 16 52 56

DECEMBER 25
U.S.C.G.S.
19.0N, 103.4W
Off Coast of Jalisco,
Mexico
H = 23 02 52.0
h 33 km
MAG 3.7 (CGS)
Mould Bay
eP 23 12 (40)

DECEMBER 26
Mould Bay
eP 00 18 30 d

DECEMBER 26
Coppermine
eP 04 48 09

DECEMBER 26
60.0°N, 111.0°W
About 37 miles S.E. of
Prince Albert Sound
H = 06 20 30.7
MAG 3.2
Coppermine
P₁ 06 21 12
S₁ 06 21 44
D = 262 km
Mould Bay
Pn 06 22 08
Sn 06 23 19
Lg 06 24 05
D = 750 km
Resolute
Pn 06 22 09
Sn 06 23 23
Lg 06 23 59
D = 750 km

DECEMBER 26
U.S.C.G.S.
76.5N, 22.4E
Svalbard Region
H = 07 58 22.4
h 33 km
MAG 5.1 (CGS)
Alert
eP 08 01 49
Coppermine
eP 08 05 00
Edmonton
eP 08 06 55 d
Frobisher
eP 08 04 26 d
Mould Bay
eP 08 03 52 d

Resolute
eP 08 03 42
Schefferville
eP 08 05 33 d
Yellowknife
eP 08 05 43

DECEMBER 26
U.S.C.G.S.
46.6N, 152.2E
Kurile Islands
H = 08 09 09.0
h 50 km
MAG 4.5 (CGS)
Coppermine
eP 08 17 52
Mould Bay
eP 08 17 21
Resolute
eP 08 18 08
Yellowknife
eP 08 18 12

DECEMBER 26
U.S.C.G.S.
69.3N, 16.5°W
300 km North of Iceland
H = 08 48 52.1
h 33 km
MAG 4.5 (CGS)
Alert
eP 08 52 38
Coppermine
eP 08 55 21
Frobisher
eP 08 53 30 d
Mould Bay
eP 08 54 37
Resolute
eP 08 53 (58)
Yellowknife
eP 08 55 55

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DECEMBER 26
Coppermine
eP 10 11 10

DECEMBER 26
U.S.C.G.S.
43.6N, 148.3E
Kurile Islands
H = 10 46 26.9
h 33 km
MAG 4.4 (CGS)
Frobisher
eP 10 57 30 c
Mould Bay
eP 10 55 09 (c)
Resolute
eP 10 55 55
Yellowknife
eP 10 56 01

DECEMBER 26
Coppermine
eP 11 07 33

DECEMBER 26
Coppermine
eP 13 55 15

DECEMBER 26
Coppermine
eP 16 05 03

DECEMBER 26
Resolute
eP 16 16 08

DECEMBER 26
Resolute
eP 16 29 49

DECEMBER 26
U.S.C.G.S.
1.4N, 126.7E
Molucca Sea
H = 16 23 54.2
h 65 km
MAG 4.8 (CGS)
Coppermine
eP 16 37 28
Mould Bay
eP 16 37 07 d
Resolute
eP 16 37 35 d

DECEMBER 26
U.S.C.G.S.
36.4N, 71.3E
Hindu Kush
H = 20 50 21.2
h 140 km
MAG 4.9 (CGS)
Alert
e(P) 21 00 09
Coppermine
eP 21 01 53
Edmonton
eP 21 03 (10)
Mould Bay
eP 21 01 03 c
Resolute
eP 21 01 11
Yellowknife
iP 21 02 23 (c)

DECEMBER 26
U.S.C.G.S.
51.2N, 169.8W
Fox Islands,
Aleutian Islands
H = 21 11 11.9
h 33 km
MAG 4.3 (CGS)
Alert
eP 21 19 01
Edmonton
eP 21 17 54 (d)

DECEMBER 26
Frobisher
eP 21 20 06
Mould Bay
eP 21 17 35 c
Resolute
eP 21 18 (25)
Yellowknife
eP 21 17 31

DECEMBER 26
Coppermine
eP 23 02 04

DECEMBER 26
U.S.C.G.S.
86.1N, 73.2E
Arctic Ocean
H = 23 21 33.2
h 33 km
MAG 4.3 (CGS)
Coppermine
eP 23 27 06
Edmonton
eP 23 29 14
Mould Bay
eP 23 25 (40)

DECEMBER 27
Mould Bay
eP 00 20 03

DECEMBER 27
U.S.C.G.S.
45.7N, 123.3W
Northwest Oregon
H = 02 36 22.3
h 37 km
MAG 4.5 (CGS)
Coppermine
eP 02 41 24
Edmonton
eP 02 38 42
Frobisher
eP 02 43 (13)



DOMINION OBSERVATORIES

Mould Bay
eP 02 42 (35)
Yellowknife
eP 02 40 22

DECEMBER 27
Mould Bay
eP 03 04 44 c

DECEMBER 27
Coppermine
eP 04 10 56

DECEMBER 27
Mould Bay
eP 06 53 48

DECEMBER 27
Mould Bay
eP 09 41 40 c

DECEMBER 27
Coppermine
eP 12 47 49
Mould Bay
eP 12 47 05 c

DECEMBER 27
U.S.C.G.S.
45.9N, 151.0E
Kurile Islands
H = 12 48 45.6
h 33 km
MAG 4.1 (CGS)
Frobisher
eP 12 59 (31)
Mould Bay
eP 12 57 07

DECEMBER 27
Mould Bay
eP 14 48 51

DECEMBER 27
Coppermine
eP 16 25 03

DECEMBER 27
Coppermine
eP 16 55 05

DECEMBER 27
Coppermine
eP 18 09 37

DECEMBER 27
Coppermine
eP 21 52 26 c

DECEMBER 27
U.S.C.G.S.
6.7°N, 83.9W
South of Costa Rica
H = 23 46 48.0
h 33 km
MAG 4.1 (CGS)
Mould Bay
eP 23 58 11

DECEMBER 28
Coppermine
eP 00 58 39
Coppermine
eP 01 55 29 d
Edmonton
eP 01 56 44 c
Mould Bay
eP 01 54 39 c

DECEMBER 28
U.S.C.G.S.
5.1°S, 153.5E
New Ireland Region
H = 05 45 20.2
h 70 km
MAG 5.5 (CGS)
Coppermine
eP 05 58 35 c
Edmonton
eP 05 58 (39)
Yellowknife
iP 05 58 37 c

DECEMBER 28
U.S.C.G.S.
14.4N, 92.3W
Near Coast of Guatemala
H = 06 57 09.9
h 33 km
MAG 4.5 (CGS)
Coppermine
eP 07 06 44
Edmonton
eP 07 05 01 (c)
Mould Bay
eP 07 07 (38)
Yellowknife
iP 07 06 07 c

DECEMBER 28
U.S.C.G.S.
44.8N, 110.9W
Yellowstone National
Park, Wyoming
H = 08 22 19.3
h 33 km
MAG 4.3 (CGS)
Edmonton
eP 08 24 (23)

DECEMBER 28
U.S.C.G.S.
32.7°S, 178.9W
Kermadec Islands
H = 09 03 52.9
h 33 km
Alert
iP' 09 22 49 c
Banff
eP 09 17 37
Coppermine
eP 09 22 20 c
Edmonton
eP 09 17 47
Frobisher
eP' 09 22 53 d
Halifax
iP' 09 22 57 c

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Mould Bay
eP' 09 22 28 (d)
Resolute
eP' 09 22 (35) d
Schefferville
eP' 09 22 55
Victoria
eP 09 17 11

DECEMBER 28
Halifax
eP 09 26 15

DECEMBER 28
U.S.C.G.S.
18.4N, 106.0W
Off Coast of Jalisco,
Mexico
H = 16 48 37.0
h 33 km
MAG 4.3 (CGS)
Coppermine
eP 16 57 27
Mould Bay
eP 16 58 29

DECEMBER 28
U.S.C.G.S.
60.4°S, 51.8W
South Shetland Isle Region
H = 17 58 33.1
h 49 km
MAG 5.4 (CGS)
Alert
eP' 18 17 58 (d)
Edmonton
eP' 18 17 23
Frobisher
eP' 18 17 (27)
Mould Bay
eP' 18 17 (59)

DECEMBER 28
Coppermine
eP 19 55 42

DECEMBER 28
Coppermine
eP 20 51 (26)

DECEMBER 28
U.S.C.G.S.
62.9N, 154.0W
Central Alaska
H = 23 20 26.6
h 33 km
MAG 4.2 (CGS)
Coppermine
eP 23 24 (15)
Edmonton
eP 23 25 30 c
Mould Bay
eP 23 24 (31)

DECEMBER 29
Canadian Arctic
H = 04 14 10
MAG 4.6
Frobisher
Pn 04 15 57
Sn 04 17 19
D = 825 km

DECEMBER 29
U.S.C.G.S.
4.1°S, 151.9E
New Britain
H = 12 52 02.2
h 119 km
MAG 4.9 (CGS)
Coppermine
eP 13 05 11

DECEMBER 29
Mould Bay
eP 16 03 16

DECEMBER 29
U.S.C.G.S.
18.5°S, 69.7°W
Northern Chile
H = 17 15 39.2
h 113 km
MAG 5.5 (CGS)
Banff
iP 17 27 37
Coppermine
eP 17 28 37
Edmonton
iP 17 27 41 d
Frobisher
iP 17 27 47 c
Halifax
iP 17 25 55 d
London
eP 17 25 49
Mould Bay
eP 17 29 09 (c)
Resolute
eP 17 28 46
Schefferville
eP 17 26 58 d
Victoria
eP 17 27 49
Yellowknife
iP 17 28 18 c

DECEMBER 29
Mould Bay
eP 18 20 15

DECEMBER 29
Coppermine
iP 23 18 40 d
Frobisher
eP 23 18 (10)
Mould Bay
eP 23 18 47 c

DOMINION OBSERVATORIES

DECEMBER 30
U.S.C.G.S.
21.6N, 144.5E
Mariana Islands Region
H = 01 15 24.5
h 120 km
MAG 5.2 (CGS)
Alert
eP 01 26 56 (c)
Banff
eP 01 27 17
Coppermine
eP 01 26 47 c
Edmonton
eP 01 27 22
Frobisher
eP 01 28 16
Mould Bay
eP 01 26 27
Resolute
eP 01 27 04
Victoria
eP 01 26 58
Yellowknife
eP 01 26 59

DECEMBER 30
Edmonton
eP 12 50 (10)

DECEMBER 30
U.S.C.G.S.
45.5N, 150.6E
Kurile Islands
H = 13 29 25.3
h 40 km
MAG 5.7 (CGS)
Alert
eP 13 38 25 c
Banff
iP 13 39 18 d
Coppermine
iP 13 38 20 c
Edmonton
eP 13 39 19 c

Frobisher
iP 13 40 13 c
London
eP 13 41 35
Mould Bay
iP 13 37 49 c
Resolute
iP 13 38 37 c
Schefferville
iP 13 41 05 c
Victoria
eP 13 38 59
Yellowknife
iP 13 38 40 (c)

DECEMBER 30
U.S.C.G.S.
9.4N, 126.0E
Near East Coast of
Mindanao P.I.
H = 15 04 14.2
h 102 km
MAG 5.6 (CGS)
Alert
eP 15 16 55 d
Coppermine
eP 15 17 11 d
Mould Bay
iP 15 16 48 d
Resolute
eP 15 17 16 d
Yellowknife
iP 15 17 25

DECEMBER 30
U.S.C.G.S.
42.4N, 142.8E
Hokkaido, Japan
H = 20 32 19.5
h 50 km
MAG 4.6 (CGS)
Alert
eP 20 41 44 (c)
Coppermine
eP 20 41 51 c

Edmonton
eP 20 42 52
Frobisher
eP 20 43 34
Mould Bay
eP 20 41 (17)
Resolute
eP 20 42 01 c
Yellowknife
eP 20 42 10

DECEMBER 30
U.S.C.G.S.
6.9 N, 94.7E
Nicobar Islands
H = 22 06 07.1
h 64 km
MAG 5.6 (CGS)
Alert
iP 22 19 01 c
Mould Bay
eP 22 19 22 c

DECEMBER 31
H = 04 02 24
MAG 2.8
Port Hardy
eP 04 02 52.1
eS 04 03 13.7
D = 178 km

DECEMBER 31
Coppermine
eP 06 40 (44)

DECEMBER 31
U.S.C.G.S.
45.2N, 151.5E
Kurile Islands
H = 10 45 17.7
h 45 km
MAG 4.5 (CGS)
Coppermine
eP 10 54 10 d
Edmonton
eP 10 55 08 (c)

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Frobisher
iP 10 56 05 c
Mould Bay
eP 10 53 40

DECEMBER 31
U.S.C.G.S.
63.7N, 146.0W
Central Alaska
H = 12 56 58.0
h 33 km
MAG 3.8 (CGS)
Mould Bay
eP 13 00 32

DECEMBER 31
U.S.C.G.S.
56.5°S, 26.0W
Sandwich Islands
H = 17 37 32.1
h 30 km
MAG 5.3 (CGS)
Alert
eP' 17 56 51
Coppermine
eP' 17 56 57
Edmonton
eP' 17 56 (37)
Frobisher
eP' 17 56 26
Mould Bay
iP' 17 57 04 d
Resolute
eP' 17 56 45
Schefferville
eP' 17 56 12 d
Victoria
eP' 17 56 43
Yellowknife
eP' 17 56 52

DECEMBER 31
Coppermine
eP 18 28 39 d
Mould Bay
eP 18 28 47 (c)

DECEMBER 31
Alert
eP 19 20 25

DECEMBER 31
U.S.C.G.S.
17.4°S, 174.2W
Tonga Islands
H = 19 16 54.9
h 80 km
MAG 5.4 (CGS)
Coppermine
eP 19 30 10
Edmonton
eP 19 29 34
Mould Bay
eP 19 30 27

DECEMBER 31
U.S.C.G.S.
16.6N, 99.0W
Guerrero, Mexico
H = 21 41 43.0
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 21 51 51

DECEMBER 31
Mould Bay
eP 21 55 15 c

DOMINION OBSERVATORIES

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the third and fourth quarters of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin. M = magnitude.

- JULY 6 10 26 21. 66°2N±0°7, 133°6W±2°0. M = 4.5. About 75 miles SSE of Fort McPherson, N. W. T.
- JULY 7 18 28 01. 74°20'N±16', 95°20'W±1°0'. M = 4.0. Barrow Strait, N. W. T.
- JULY 9 10 56 59. 75°9N±0°6, 107°3W±0°7. Depth 24 km. M = 2.9. Melville Island, N. W. T.
- JULY 12 15 23 11. M = 2.4. 61 miles from Resolute, N. W. T.
- JULY 15 08 36 41. 61°7N, 134°9W. M = 4.2. (CGS). Yukon Territory.
- JULY 15 16 42 35. M = 3.8. (CGS). Aftershock of previous earthquake.
- JULY 20 00 11 35. 65°2N, 133°7W. M = 4.6. (CGS). Yukon Territory.
- JULY 21 08 14 44. M = 2.7. 97 miles from Alert, N. W. T.
- JULY 27 02 33 27. M = 2.1. 53 miles from Resolute, N. W. T.
- JULY 29 13 32 50. M = 3.7. 434 miles from Resolute, N. W. T.
- AUGUST 5 03 46 57. M = 1.4. 25 miles from Resolute, N. W. T.
- AUGUST 19 02 21 59. M = 1.9. 56 miles from Alert, N. W. T.
- AUGUST 19 15 26 02. M = 2.0. 107 miles from Mould Bay, N. W. T.
- AUGUST 21 22 40 41. M = 1.3. 10 miles from Resolute, N. W. T.
- AUGUST 24 09 12 23. M = 2.6. 53 miles from Resolute, N. W. T.
- AUGUST 28 15 10 02. M = 4.7. 69°50'N±19', 73°05'W±50'. About 90 miles west of Clyde Inlet, N. W. T.
- AUGUST 30 05 28 37. M = 2.1. 70 miles from Resolute, N. W. T.

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- SEPTEMBER 4 13 32 12. 71°4N, 73°3W. M = 5.9. (CGS). 6.25-6.5 (PAS). 6 (BRK). Near the coast of Baffin Island, N. W. T. This earthquake was followed by 42 aftershocks by the end of the year. Three of these are given a place in the list as they were large enough to be located by U. S. C. G. S. The remainder follow:
- SEPTEMBER 4 13 56 21. M = 4.5.
- SEPTEMBER 4 14 05 13. M = 5.0.
- SEPTEMBER 4 14 21 21. M = 4.8.
- SEPTEMBER 4 15 06 21. M = 4.7.
- SEPTEMBER 4 15 14 25. M = 4.5.
- SEPTEMBER 4 15 26 17. M = 5.1.
- SEPTEMBER 4 19 57 38. M = 5.1.
- SEPTEMBER 4 22 15 06. M = 5.0.
- SEPTEMBER 4 23 03 23. M = 5.0.
- SEPTEMBER 5 14 45 23. M = 4.0.
- SEPTEMBER 5 22 26 28. M = 4.8.
- SEPTEMBER 6 05 55 55. M = 4.6.
- SEPTEMBER 7 03 03 47. M = 5.0.
- SEPTEMBER 8 15 38 39. M = 4.8.
- SEPTEMBER 9 22 23 17. M = 4.6.
- SEPTEMBER 21 21 51 24. M = 4.1.
- SEPTEMBER 22 11 39 24. M = 4.4.
- SEPTEMBER 24 16 52 42. M = 4.3.
- SEPTEMBER 25 00 45. M = 4.2.
- SEPTEMBER 29 13 52 44. M = 4.1.

DOMINION OBSERVATORIES

OCTOBER	1	02	26	33.	M = 4.1.
OCTOBER	9	04	06	59.	M = 4.0.
OCTOBER	9	08	00	31.	M = 3.6.
OCTOBER	12	02	46	48.	M = 5.0.
OCTOBER	14	04	03	47.	M = 4.1.
OCTOBER	14	10	15	36.	M = 4.2.
OCTOBER	18	19	32	31.	M = 4.8.
OCTOBER	22	08	32	04.	M = 4.0.
OCTOBER	25	20	32	24.	M = 4.4.
NOVEMBER	5	16	07	17.	M = 4.0.
NOVEMBER	26	16	20	13.	M = 4.3.
DECEMBER	1	16	23	53.	M = 4.7.
DECEMBER	5	05	18	22.	M = 4.2.
DECEMBER	7	00	26	33.	M = 4.3.
DECEMBER	15	01	26	02.	M = 4.5.
DECEMBER	15	03	50	53.	M = 4.4.
DECEMBER	15	05	17	53.	M = 4.5.
DECEMBER	17	03	17	06.	M = 4.5.
DECEMBER	19	15	14	30.	M = 4.5.

It is felt that the M_L Magnitudes found at Ottawa are, in general, too large - possibly because the nearest station is more than 800 km from the epicentres.

SEPTEMBER	4	21	20	19.	71°5'N, 72°8'W. M = 4.1. (CGS), 5.7. (OTT). Aftershock of earthquake at 13 32 12 on September 4.
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SEPTEMBER	4	21	41	01.	71°6'N, 73°5'W. M = 4.4. (CGS). 5.8. (OTT). Aftershock of earthquake at 13 32 12 on September 4.
SEPTEMBER	6	01	46	13.	71°5'N, 73°0'W. M = 4.4. (CGS). 5.8. (OTT). Aftershock of earthquake at 13 32 12 on September 4.
SEPTEMBER	7	08	10	53.	M = 0.8. 10 miles from Resolute, N. W. T.
SEPTEMBER	11	04	20	31.	372 miles from Yellowknife, N. W. T.
SEPTEMBER	13	12	13	19.	M = 1.8. 15 miles from Resolute, N. W. T.
SEPTEMBER	18	18	36	14.	M = 4.8. Foreshock of following event.
SEPTEMBER	18	22	31	27.	68°30'N±19', 70°05'W±45'. M = 5.1. About 100 miles south of Clyde Inlet, N. W. T.
SEPTEMBER	25	10	45	31.	72°45'N±1°0', 106°20'W±2°0'. M = 3.3. Victoria Island, N. W. T.
OCTOBER	1	06	45	35.	63°40'N±1°0', 79°35'W±1°7'. M = 4.1. Foxe Channel, N. W. T. OR 67°50'N±1°0', 62°15'W±1°2'. M = 4.1. Just off coast of Baffin Island, N. W. T.
OCTOBER	2	02	09	47.	M = 1.5. 81 miles from Resolute, N. W. T.
OCTOBER	6	08	04	09.	M = 1.1. 28 miles from Resolute, N. W. T.
OCTOBER	7	12	06	47.	M = 1.9. 92 miles from Alert, N. W. T.
OCTOBER	13	01	37	01.	81°0'N±0°5', 94°0'W±1°5'. M = 4.0. North coast of Axel Heiberg Island, N. W. T.
OCTOBER	15	07	26	11.	60°1'N, 134°7'W. M = 4.3. (CGS). Yukon Territory.
OCTOBER	17	16	49	48.	75°10'N±19', 74°10'W±1°0'. M = 3.6. About 100 miles east of Devon Island, N. W. T.
OCTOBER	18	07	09	29.	M = 3.0. Foresock of earthquake at 08 07 03.
OCTOBER	18	07	11	36.	M = 1.6. Foreshock of earthquake at 08 07 03.

DOMINION OBSERVATORIES

OCTOBER	18	07 12 47.	M = 2.1.	Foreshock of earthquake at 08 07 03.
OCTOBER	18	07 14 21.	M = 1.6.	Foreshock of earthquake at 08 07 03.
OCTOBER	18	07 15 29.	M = 1.6.	Foreshock of earthquake at 08 07 03.
OCTOBER	18	07 24 06.	M = 1.9.	Foreshock of earthquake at 08 07 03.
OCTOBER	18	08 07 03.	77°5N, 118°1W. M = 3.4.	Off the north coast of Prince Patrick Island N. W. T. This is the main shock of a swarm having 6 foreshocks and 16 aftershocks during the day.
OCTOBER	18	08 10 23.	M = 1.8.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08 11 43.	M = 1.8.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08 14 40.	M = 1.5.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08 19 04.	M = 1.7.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08 22 05.	M = 2.0.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08 29 31.	M = 1.4.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08 38 27.	M = 1.6.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08 39 41.	M = 1.9.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08 54 23.	M = 1.5.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	09 30 44.	M = 1.8.	Aftershock of earthquake at 08 07 03.

SEISMOLOGICAL BULLETIN - 1963

OCTOBER	18	10 47 51.	M = 1.9.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	10 53 49.	M = 2.2.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	11 04 43.	M = 1.4.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	11 06 28.	M = 2.2.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	12 43 26.	M = 1.6.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	13 46 12.	76°20'N±30', 75°00'W±1°0'. M = 3.5.	About 75 miles from Devon Island, N. W. T.
OCTOBER	18	22 41 35.	M = 1.6.	Aftershock of earthquake at 08 07 03.
OCTOBER	19	18 03 47.	M = 2.2.	95 miles from Mould Bay, N. W. T.
OCTOBER	23	13 33 43.	M = 2.1.	89 miles from Mould Bay, N. W. T.
OCTOBER	27	00 16 20.	M = 2.4.	100 miles from Resolute, N. W. T.
OCTOBER	27	00 56 59.	M = 2.2.	148 miles from Resolute, N. W. T.
OCTOBER	31	20 52 28.	M = 1.8.	Foreshock of earthquake at 21 11 33.
OCTOBER	31	21 11 33.	77°4N±0°3, 118°7W±1°0. M = 3.2.	Near Cape Andreasen, Prince Patrick Island, N. W. T. One foreshock and three aftershocks.
OCTOBER	31	22 07 33.	M = 2.2.	Aftershock of earthquake at 21 11 33.
OCTOBER	31	22 50 26.	M = 3.0.	Aftershock of earthquake at 21 11 33.
NOVEMBER	1	04 47 27.	M = 2.4.	Aftershock of earthquake at 21 11 33 on October 31.
NOVEMBER	5	04 24 29.	M = 1.6.	71 miles from Alert, N. W. T.

DOMINION OBSERVATORIES

- NOVEMBER 7 15 23 02. M = 1.5. 30 miles from Resolute, N. W. T.
- NOVEMBER 13 03 57 05. M = 0.9. 36 miles from Resolute, N. W. T.
- NOVEMBER 14 06 26 07. 63°4N±0°5', 130°0W±1°0'. M = 4.0. On the Yukon - Mackenzie Border.
- DECEMBER 4 06 29 56. M = 3.8. 510 miles from Coppermine, N. W. T.
- DECEMBER 4 06 49 29. 76°40'N±45', 119°30'W±1°0'. M = 4.1. Prince Patrick Island, N. W. T.
- DECEMBER 5 03 21 56. M = 4.0. 510 miles from Coppermine, N. W. T.
- DECEMBER 9 09 16 39. 72°20'N±30', 91°20'W±1°0'. M = 4.4. Regent Inlet, N. W. T.
- DECEMBER 9 15 01 09. M = 4.4. 510 miles from Frobisher, N. W. T.
- DECEMBER 26 06 20 31. 60°0'N±50', 111°0'W±1°5'. M = 3.2. About 37 miles SE of Prince Albert Sound, N. W. T.
- DECEMBER 29 04 14 10. M = 4.6. 513 miles from Frobisher, N. W. T.

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EARTHQUAKES OF EASTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the third and fourth quarters of 1963. The times of observed phases are given in their respective chronological positions in the text of this bulletin. M = magnitude.

- JULY 1 19 59 12. 42°34'N±10', 73°45'W±15'. M = 3.3. About 20 miles south of Albany in the Hudson River Valley, N. Y.
- AUGUST 1 06 34 15.5. 46°48'N±10', 66°30'W±12'. M = 3.0. Depth about 20 km. About 25 miles north of Boiestown, N. B.
- AUGUST 15 14 08 06. 45°12'N±10', 74°52'W±10'. M = 2.0. In the St. Lawrence River between Massena, N. Y., and Long Sault, Ont. Felt at Harisons Corners, 13 miles north and a little west of Cornwall. Also 4 1/2 miles north of Ingleside.
- AUGUST 26 02 41 01.8. 45°54'N±8', 74°53'W±10'. M = 2.2. About 3 miles east of Namur, Que.
- AUGUST 26 16 29 35. 45°10'N±8', 73°57'W±10'. M = 3.5. About 5 miles NE of Léry, Que. Felt lightly at Montreal and Chateauguay, Que.
- SEPTEMBER 19 18 47 49.5. M = 3.8. Depth about 22 km. 360 miles from Montreal.
- OCTOBER 15 12 07 50.6. M = 3.0. Foreshock of earthquake at 13 59 53.
- OCTOBER 15 12 29 02. M = 4.4. Foreshock of earthquake at 13 59 53.
- OCTOBER 15 13 59 53. 46°10'N±10', 77°35'W±12'. M = 4.5. Depth about 14 km. About 10 miles from Deep River, Ont.
- OCTOBER 16 15 31 00.7. 42°4N, 70°7W. M = 4.7. (OTT). 4.2. (PAL). Depth about 25 km. North coast of Massachusetts. Felt in three states. Slight damage at Somerville, Mass.
- OCTOBER 17 05 13 40.8. M = 3.0. Depth about 15 km. Aftershock of earthquake at 13 59 53 on October 15.

DOMINION OBSERVATORIES

- OCTOBER 19 06 29 34.4. 50°0N±0°5, 67°8W±0°1. M = 2.9. Touloustouc River Area, Que. OR 50°0±0.5°N, 65°0W±0°1. M = 2.9. Mouth of St. Lawrence River about 20 miles west of Anticosti Island.
- OCTOBER 25 08 49 39. 51°4N±0°5, 61°9W±0°8. M = 3.3. About 80 miles north of Natashquan, Que.
- DECEMBER 4 21 32 34.9. 43°6N, 71°6W. M = 3.7. (CGS). 3.4. (OTT). New Hampshire, U. S. A. Slight damage at Laconia.

SEISMOLOGICAL BULLETIN - 1963

EARTHQUAKES IN WESTERN CANADA AND ADJACENT AREAS

The following disturbances were recorded during the third and fourth quarters of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

The events in the following list at distances from 99 to 102 miles from Penticton, B. C., are known to be blasts at Merritt, B. C. M = magnitude.

- JULY 1 13 54 40. M = 2.4. 106 miles from Port Hardy.
- JULY 2 03 40 08. 51°3N, 117°6W. M = 2.6. Near Glacier, B. C.
- JULY 2 23 35 03. M = 2.0. 99 miles from Penticton.
- JULY 3 00 43 51. M = 2.1. 101 miles from Penticton.
- JULY 3 17 48 36. M = 2.5. 106 miles from Port Hardy.
- JULY 3 21 58 23. M = 2.0. 102 miles from Penticton.
- JULY 4 01 07 50. M = 2.4. 139 miles from Penticton.
- JULY 4 19 32 35. M = 2.2. 99 miles from Penticton.
- JULY 5 19 13 27. M = 2.5. 106 miles from Penticton.
- JULY 5 20 30 34. M = 2.0. 51 miles from Penticton.
- JULY 5 22 33 02. M = 2.3. 99 miles from Penticton.
- JULY 6 21 10 15. M = 2.4. 99 miles from Penticton.
- JULY 8 22 30 30. M = 2.2. 100 miles from Penticton.
- JULY 9 21 05 07. M = 2.4. 99 miles from Penticton.
- JULY 9 23 36 25. M = 2.7. 104 miles from Penticton.
- JULY 10 22 38 22. M = 1.9. 99 miles from Penticton.
- JULY 10 23 06 33. M = 1.9. 41 miles from Penticton.
- JULY 11 22 54 18. M = 1.8. 100 miles from Penticton.

DOMINION OBSERVATORIES

JULY 12 06 54 41. M = 2.8. 109 miles from Penticton.

JULY 12 12 23 23. 50°40'N, 129°55'W. M = 4.6. West of Port Hardy, B. C.

JULY 12 12 52 35. 50°35'N, 130°00'W. M = 4.5. West of Port Hardy, B. C.

JULY 12 15 54 13. M = 2.4. 93 miles from Port Hardy.

JULY 12 16 08 13. M = 2.3. 79 miles from Port Hardy.

JULY 12 19 07 05. M = 2.5. 99 miles from Penticton.

JULY 12 23 55 58. M = 2.4. 100 miles from Penticton.

JULY 13 00 02 25. M = 3.0. 176 miles from Penticton.

JULY 13 03 16 53. 49°45'N, 124°00'W. M = 3.1. On Vancouver Island.

JULY 13 21 38 51. M = 2.1. 81 miles from Penticton.

JULY 14 21 13 22. M = 2.1. 98 miles from Penticton.

JULY 15 18 46 43. M = 2.9. 175 miles from Penticton.

JULY 16 00 42 40. M = 2.6. 99 miles from Penticton.

JULY 16 21 42 05. M = 2.4. 100 miles from Penticton.

JULY 16 23 32 58. M = 2.4. 108 miles from Penticton.

JULY 17 03 15 15. 50°23'N, 121°05'W. M = 2.6. North of Vancouver.

JULY 17 18 30 24. M = 2.2. 100 miles from Penticton.

JULY 18 00 04 05. 49°15'N, 128°45'W. M = 4.6. West of Vancouver Island.

JULY 18 23 01 18. M = 2.7. 106 miles from Penticton.

JULY 19 19 10 04. M = 2.2. 98 miles from Penticton.

JULY 19 20 20 17. M = 2.5. 61 miles from Penticton.

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JULY 19 23 02 23. M = 2.2. 94 miles from Penticton.

JULY 19 23 19 35. M = 2.5. 99 miles from Penticton.

JULY 20 08 54 26. 49°00'N, 128°40'W. M = 3.0. West of Vancouver Island.

JULY 21 21 45 48. M = 2.4. 99 miles from Penticton.

JULY 23 19 12 47. M = 2.3. 123 miles from Penticton.

JULY 23 22 18 32. M = 2.0. 101 miles from Penticton.

JULY 24 19 12 29. M = 2.2. 104 miles from Penticton.

JULY 24 21 30 12. M = 2.1. 98 miles from Penticton.

JULY 24 22 18 16. M = 2.2. 99 miles from Penticton.

JULY 25 14 28 06. M = 2.4. 173 miles from Penticton.

JULY 25 18 26 18. M = 2.9. 129 miles from Penticton.

JULY 25 18 53 10. M = 2.7. 98 miles from Penticton.

JULY 26 01 54 04. M = 2.2. 100 miles from Penticton.

JULY 26 08 41 09. M = 3.0. 178 miles from Penticton.

JULY 26 08 45 02. M = 3.6. 183 miles from Penticton.

JULY 26 19 03 24. M = 2.3. 109 miles from Penticton.

JULY 26 23 13 06. M = 2.0. 86 miles from Penticton.

JULY 26 23 24 13. M = 2.1. 99 miles from Penticton.

JULY 27 21 47 53. M = 2.2. 100 miles from Penticton.

JULY 27 23 28 21. M = 3.0. 203 miles from Penticton.

JULY 28 06 15 21. M = 2.0. 74 miles from Penticton.

JULY 29 21 30 16. M = 2.1. 99 miles from Penticton.

JULY 29 22 48 02. M = 2.4. 99 miles from Penticton.

DOMINION OBSERVATORIES

JULY 30 21 29 59. 47°55'N, 125°40'W. M = 2.6. Off coast of Washington, U. S. A.

JULY 30 22 40 42. M = 2.5. 97 miles from Port Hardy.

JULY 31 00 08 08. M = 3.8. 298 miles from Penticton.

AUGUST 2 08 28 38. 48°5N, 122°0W. M = 1.6. Washington, U. S. A.

AUGUST 3 22 12 41. M = 2.0. 87 miles from Penticton.

AUGUST 4 04 17 27. M = 2.2. 101 miles from Penticton.

AUGUST 6 12 46 22. M = 2.2. 101 miles from Port Hardy.

AUGUST 8 04 48 48. M = 1.9. 118 miles from Port Hardy.

AUGUST 10 22 37 06. M = 1.7. 99 miles from Penticton.

AUGUST 10 22 46 33. M = 1.7. 120 miles from Penticton.

AUGUST 10 23 43 37. 49°35'N, 115°25'W. M = 2.0. Near Cranbrook, B. C.

AUGUST 11 01 17 43. M = 2.1. 126 miles from Penticton.

AUGUST 11 14 18 22. M = 1.8. 106 miles from Port Hardy.

AUGUST 11 20 45 41. M = 1.6. 107 miles from Port Hardy.

AUGUST 12 02 01 33. M = 1.8. 129 miles from Penticton.

AUGUST 12 14 07 15. 47°2N, 120°9W. M = 2.1. Central Washington, U. S. A.

AUGUST 13 15 03 58. 47°3N, 121°6W. M = 2.6. Central Washington, U. S. A.

AUGUST 18 00 24 26. 47°5N, 122°6W. M = 3.2. Central Washington, U. S. A.

AUGUST 20 06 09 00. M = 2.2. 124 miles from Port Hardy.

AUGUST 21 12 38 04. M = 2.2. 109 miles from Port Hardy.

AUGUST 21 13 59 02. M = 2.0. 54 miles from Port Hardy.



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AUGUST 22 20 10 27. M = 1.1. 18 miles from Victoria.

AUGUST 22 20 36 46. M = 2.3. 106 miles from Port Hardy.

AUGUST 23 15 22 04. M = 2.1. 78 miles from Port Hardy.

AUGUST 26 09 20 43. 48°0N, 123°0W. M = 3.1. Washington, U. S. A.

AUGUST 27 16 57 32. M = 2.5. 151 miles from Penticton.

AUGUST 27 22 22 42. M = 2.7. 187 miles from Penticton.

AUGUST 30 13 47 30. M = 2.6. 97 miles from Port Hardy.

AUGUST 30 19 10 03. M = 2.6. 98 miles from Port Hardy.

AUGUST 30 23 49 46. M = 2.8. 97 miles from Port Hardy.

AUGUST 31 03 22 58. M = 2.6. 96 miles from Port Hardy.

AUGUST 31 07 52 53. M = 2.6. 115 miles from Port Hardy.

AUGUST 31 07 56 34. M = 2.4. 110 miles from Port Hardy.

AUGUST 31 08 00 11. M = 2.0. 94 miles from Port Hardy.

AUGUST 31 08 23 59. M = 2.0. 99 miles from Port Hardy.

AUGUST 31 12 23 21. M = 3.0. 178 miles from Penticton.

AUGUST 31 18 45 32. M = 2.2. 94 miles from Port Hardy.

AUGUST 31 19 47 16. M = 2.3. 98 miles from Port Hardy.

AUGUST 31 20 34 49. M = 2.2. 92 miles from Port Hardy.

AUGUST 31 21 01 25. M = 2.3. 97 miles from Port Hardy.

SEPTEMBER 1 06 59 41. M = 2.3. 94 miles from Port Hardy.

SEPTEMBER 1 07 01 31. 50°4N, 129°5W. M = 3.2. West of Vancouver Island.

SEPTEMBER 1 07 06 16. M = 2.5. 94 miles from Port Hardy.

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SEPTEMBER 1 07 13 52. M = 2.9. 86 miles from Port Hardy.
 SEPTEMBER 1 07 32 11. M = 2.3. 94 miles from Port Hardy.
 SEPTEMBER 1 08 19 07. M = 2.0. 103 miles from Port Hardy.
 SEPTEMBER 1 14 50 13. M = 2.6. 95 miles from Port Hardy.
 SEPTEMBER 1 15 15 41. M = 2.1. 97 miles from Port Hardy.
 SEPTEMBER 1 15 23 55. 50°7N, 129°4W. M = 4.0. West of
 Vancouver Island.
 SEPTEMBER 1 15 28 15. M = 2.3. 87 miles from Port Hardy.
 SEPTEMBER 1 16 45 11. M = 2.5. 96 miles from Port Hardy.
 SEPTEMBER 1 18 02 59. M = 2.7. 98 miles from Port Hardy.
 SEPTEMBER 1 18 20 24. M = 2.0. 98 miles from Port Hardy.
 SEPTEMBER 1 18 47 15. M = 2.1. 141 miles from Port Hardy.
 SEPTEMBER 1 19 05 38. M = 2.0. 93 miles from Port Hardy.
 SEPTEMBER 1 19 22 47. 50°5N, 129°5W. M = 2.8. West of
 Vancouver Island.
 SEPTEMBER 1 22 07 28. 51°4N, 129°6W. M = 2.7. West of
 Vancouver Island.
 SEPTEMBER 1 23 55 42. 51°6N, 129°1W. M = 2.7. West of
 Vancouver Island.
 SEPTEMBER 2 01 36 44. M = 2.9. 99 miles from Port Hardy.
 SEPTEMBER 2 03 46 57. 51°5N, 129°0W. M = 4.2. West of
 Vancouver Island.
 SEPTEMBER 2 03 48 37. M = 2.8. 100 miles from Port Hardy.
 SEPTEMBER 2 03 51 13. M = 2.5. 98 miles from Port Hardy.
 SEPTEMBER 2 13 22 31. 50°7N, 129°7W. M = 3.8. West of
 Vancouver Island.

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SEPTEMBER 2 13 27 35. 50°3N, 129°3W. M = 4.6. West of
 Vancouver Island.
 SEPTEMBER 2 13 55 58. M = 4.0. 97 miles from Port Hardy.
 SEPTEMBER 2 14 12 48. 52°0N, 129°5W. M = 4.2. West of
 Vancouver Island.
 SEPTEMBER 2 14 24 43. M = 3.3. 98 miles from Port Hardy.
 SEPTEMBER 3 19 31 33. 50°5N, 129°5W. M = 4.0. West of
 Vancouver Island.
 SEPTEMBER 4 19 21 23. M = 2.5. 149 miles from Penticton.
 SEPTEMBER 5 11 36 32. 50°3N, 129°1W. M = 4.2. West of
 Vancouver Island.
 SEPTEMBER 6 20 31 46. 50°1N, 129°5W. M = 4.4. West of
 Vancouver Island.
 SEPTEMBER 8 01 14 13. M = 2.0. 94 miles from Port Hardy.
 SEPTEMBER 8 15 53 33. 48°5N, 123°0W. M = 2.5. Olympic
 Mountain, U. S. A.
 SEPTEMBER 8 16 27 37. 50°4N, 128°1W. M = 2.8. Quatsino
 Sound.
 SEPTEMBER 9 05 18 32. M = 2.8. 98 miles from Port Hardy.
 SEPTEMBER 9 07 27 52. 49°6N, 130°4W. M = 2.8. West of
 Vancouver Island.
 SEPTEMBER 10 13 57 45. M = 2.0. 96 miles from Port Hardy.
 SEPTEMBER 11 19 13 49. 48°4N, 130°1W. M = 2.8. West of
 Vancouver Island.
 SEPTEMBER 17 00 22 57. 50°2N, 129°2W. M = 4.0. Queen
 Charlotte Sound.
 SEPTEMBER 18 12 12 00. M = 2.1. 57 miles from Port Hardy.
 SEPTEMBER 20 17 15 22. 50°4N, 129°5W. M = 3.3.

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SEPTEMBER 21 01 59 51. M = 2.1. 96 miles from Port Hardy.
SEPTEMBER 22 13 35 21. 50°5N, 129°6W. M = 2.8. West of
Vancouver Island.
SEPTEMBER 29 22 36 16. M = 2.1. 174 miles from Victoria.
OCTOBER 4 07 14 53. 47°5N, 130°5W. M = 4.4. Off coast of
Washington, U. S. A.
OCTOBER 5 11 55 57. 48°1N, 128°1W. M = 4.3. Off coast of
Washington, U. S. A.
OCTOBER 5 18 40 46. 50°9N, 131°1W. M = 3.9. West of
Vancouver Island.
OCTOBER 6 21 27 28. M = 2.3. 165 miles from Victoria.
OCTOBER 14 05 35 43. 48°7N, 124°6W. M = 2.0. On southern
Vancouver Island.
OCTOBER 17 15 51 13. 48°5N, 125°4W. M = 1.6. West of
Vancouver Island.
NOVEMBER 2 00 30 25. M = 2.3. 32 miles from Victoria.
NOVEMBER 7 05 02 45. M = 2.5. 113 miles from Port Hardy.
NOVEMBER 17 06 02 54. M = 2.0. 71 miles from Victoria.
NOVEMBER 20 01 13 49. 53°4N, 130°6W. M = 4.0. Near Queen
Charlotte Islands.
DECEMBER 1 00 59 23. M = 1.5. 84 miles from Victoria.
DECEMBER 2 06 52 20. 54°4N, 132°9W. M = 4.7. Near Queen
Charlotte Islands. Felt at Tlell.
DECEMBER 2 06 57 20. 54°4N, 132°9W. M = 4.5. Near Queen
Charlotte Islands. Felt at Tlell.
DECEMBER 3 21 31 01. M = 2.1. 72 miles from Victoria.
DECEMBER 8 13 23 55. 49°3N, 125°9W. M = 2.7. In Clayoquot
Sound.

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DECEMBER 15 15 44 22. 50°3N, 129°1W. M = 4.0. West of
Vancouver Island.
DECEMBER 20 19 11 06. 49°6N, 124°2W. M = 2.4. Near Jervis
Inlet.
DECEMBER 22 02 54 08. 48°5N, 120°1W. M = 3.7. In Washington,
U. S. A.
DECEMBER 31 04 02 51. M = 2.8. 110 miles from Port Hardy.



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DOMINION OBSERVATORIES

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