

NOV - 9 1964



LS
8025

QB
4
D66

S4
63-1
ocls

SEISMOLOGICAL SERIES
of the
DOMINION OBSERVATORY

1963-1

(Continued)

Seismological Bulletin

April - June

1963

**Seismological Service
of Canada**

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

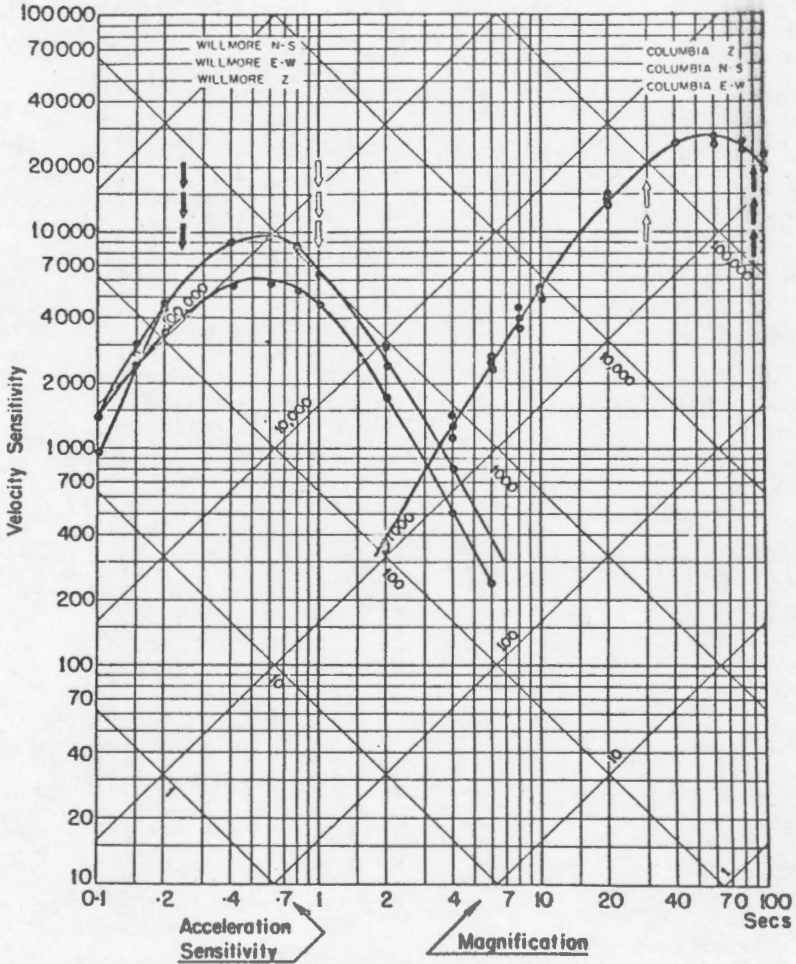
1964

This document was produced
by scanning the original publication.

Ce document est le produit d'une
numérisation par balayage
de la publication originale.

CALIBRATION CURVES

STATION: COPPERMINE, N.W.T.



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

Foundation : Precambrian Rock

$T_s \uparrow$

$T_g \uparrow$

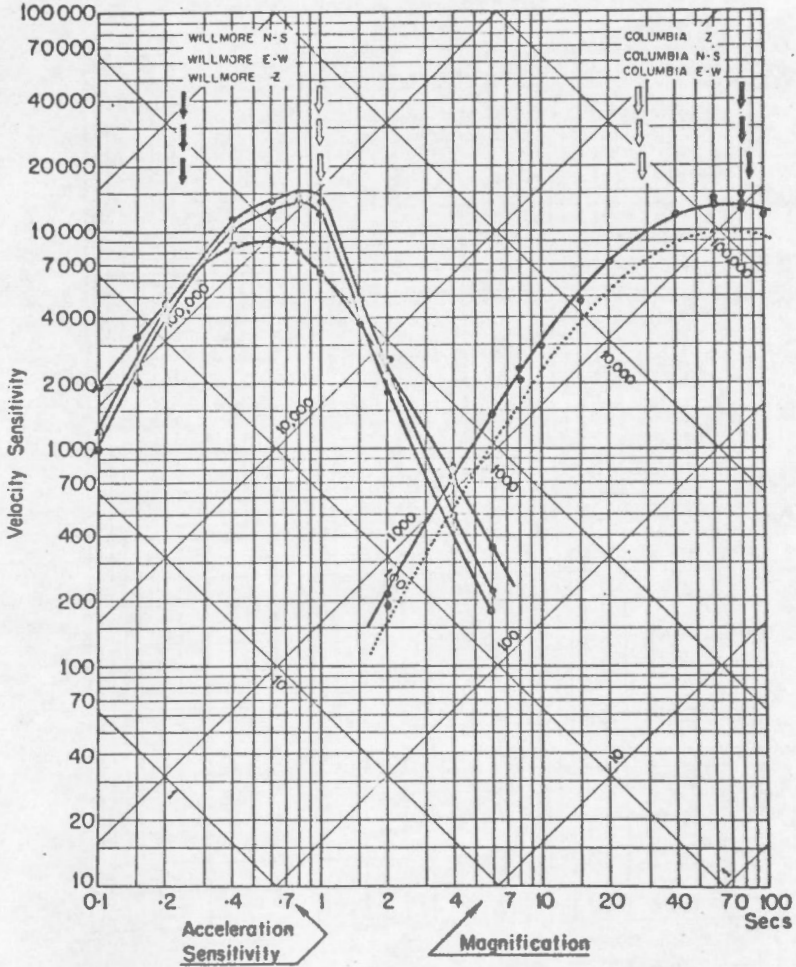
Date of Calibration: April 1963

S.P. - Z. APRIL 4
 S.P. - N.S. APRIL 1
 S.P. - E.W. APRIL 1

L.P. - Z. APRIL 7
 L.P. - N.S. APRIL 6
 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	APRIL 2 U.S.C.G.S. 44.7N, 110.5W	Resolute eP 16 25 38
Schefferville eP 01 06 10	Yellowstone National Park, Wyoming	Schefferville eP 16 28 19 d
Yellowknife eP 01 07 58 d	H = 15 29 42.6 h = about 33 km Mag 4.0 (CGS)	Sept Iles iP 16 28 43 d
APRIL 2	Penticton eP 15 31 32	Shawinigan Falls eP 16 28 41 d
U.S.C.G.S. 55.2N, 160.3E	APRIL 2	Victoria eP 16 24 57 d
Kamchatka H = 04 06 57.3 h = about 33 km Mag 4.9 (CGS)	U.S.C.G.S. 53.2N, 171.7W	Yellowknife iP 16 25 00 d
Mould Bay eP 04 13 48	Andreanof Islands, Aleutian Islands	APRIL 2
Penticton eP 04 15 13	H = 16 18 55.6 h = about 142 km Mag 6 1/4 - 6 1/2 (PAS)	Penticton eP 16 31 25
Resolute eP 04 14 (41)	5 1/2 (BRK) 5.7 (CGS)	Port Hardy eP 16 31 09
Yellowknife eP 04 14 43	Alberni eP 16 24 46 d	Victoria eP 16 31 19
APRIL 2	Alert iP 16 26 20 d	APRIL 2
U.S.C.G.S. 44.8N, 110.7W	(S) 16 31.9	Mould Bay eP 16 56 43 (d)
Yellowstone National Park, Wyoming	Banff iP 16 25 25 d	Yellowknife eP 16 56 41
H = 13 40 12.7 h = about 33 km	Halifax iP 16 29 21 d	APRIL 3
Penticton eP 13 42 01	London eP 16 28 30 d	U.S.C.G.S. 17.0N, 46.5W
	Mould Bay iP 16 24 56 d i 16 27 51 S 16 29 46	North Atlantic Ocean H = 01 13 15.5 h = about 33 km Mag 4.5 (CGS)
	Penticton iP 16 25 13 d	Mould Bay eP 01 24 23
	Port Hardy eP 16 24 27 d	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. 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. 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 Canadian Arctic H = 08 59 38.5 h = 30 km Mag 2.0 Resolute P _n 09 00 08.5 P ₁ 09 00 12 i 09 00 18 S _n 09 00 32 S ₁ 09 00 37 D = 205 km	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)
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 iP ₁ 02 14 14.6 i 02 14 19 iS ₁ 02 14 23 D = 69 km		

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
ePⁿ 18 20 52 c
Resolute
eP^t 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. 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	Penticton iP 15 40 19 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 49°45'N, 123°40'W Jervis Inlet H = 21 16 18 Mag 2.8 Alberni iP ₁ 21 16 34.5 iS ₁ 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 iP ₁ 21 16 40.5 iS ₁ 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	
	APRIL 7 Coppermine iP 15 40 11 c	

DOMINION OBSERVATORIES

Mould Bay		APRIL 8	Yellowknife
eP	22 50 04	U.S.C.G.S.	iP 12 06 28 c
Ottawa		41.9N, 72.8E	
eP'	22 55 20	Kirghiz S.S.R.	
Penticton		H = 06 43 21.0	APRIL 8
iP'	22 54 54	h = about 33 km	U.S.C.G.S.
Port Hardy		Mag 4.7 (CGS)	27.7N, 44.3W
eP'	22 54 43	Mould Bay	North Atlantic
Resolute		eP 06 53 39 c	Ocean
eP	22 50 25	Yellowknife	H = 14 38 27.0
Schefferville		eP 06 55 06	h = about 33 km
eP'	22 55 06		Mag 5.0 (CGS)
Sept Illes			Alert
eP'	22 55 15	APRIL 8	eP 14 47 59 (d)
i	22 57 40	U.S.C.G.S.	Coppermine
Shawinigan Falls		47.5N, 153.2E	iP 14 48 14 d
iP'	22 55 22 c	Kurile Islands	Halifax
Victoria		Region	eP 14 43 33
eP'	22 54 51	H = 11 19 39.4	London
Yellowknife		h = about 107 km	eP 14 45 04 (c)
eP	22 50 55	Mag 4.6 (CGS)	Mould Bay
		Coppermine	eP 14 48 30 (d)
		eP 11 28 07 c	Penticton
APRIL 8		Mould Bay	eP 14 48 33
H = 00 35 36		eP 11 27 36 (c)	Resolute
Mag = 1.9		Penticton	eP 14 47 47
Aftershock of Jervis		eP 11 28 59	Schefferville
Inlet local		Yellowknife	eP 14 44 50
Alberni		eP 11 28 27	Shawinigan Falls
iP ₁	00 35 52.3		eP 14 44 (34)
iS ₁	00 36 04.4		Yellowknife
D = 101 km		APRIL 8	eP 14 48 08
Victoria		U.S.C.G.S.	
eP ₁	00 35 58.0	4.2S, 152.2E	
eS ₁	00 36 15.3	New-Britain	APRIL 9
D = 138 km		Region	U.S.C.G.S.
		H = 11 53 21.3	22.2N, 85.6E
		h = about 158 km	India
		Mag 4.8 (CGS)	H = 00 03 35.6
		Mould Bay	h = about 33 km
		eP 12 06 20	Mould Bay
		Penticton	eP 00 15 (42)
		eP 12 06 11	

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.

15.2S, 173.1W

Samoa Islands

Region

H = 00 24 57.6

h = about 33 km

Mag 4.9 (CGS)

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

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

DOMINION OBSERVATORIES

Resolute eP' 08 09 (04)	APRIL 10 Yellowknife eP 17 05 51	APRIL 11 U.S.C.G.S. 9.9S, 116.2E
Schefferville eP' 08 09 48		South of Sumbawa H = 09 33 10.1
Yellowknife eP' 08 09 03	APRIL 10 U.S.C.G.S. 16.8N, 94.1W	h = about 33 km Halifax iP' 09 52 46 c
APRIL 10 U.S.C.G.S. 3.6N, 148.1E	Chiapas, Mexico H = 23 10 47.6	APRIL 11 U.S.C.G.S. 46.8N, 155.5E
Caroline Islands Region H = 11 39 07.5	h = about 130 km Mag 4.6 (CGS)	Kurile Islands Region H = 10 04 36.9
h = about 108 km Mag 4.0 (CGS)	Coppermine iP 23 19 52 c	h = about 80 km Mag 4.6 (CGS)
Mould Bay eP 11 51 42 c	Mould Bay eP 23 20 48 c	Mould Bay eP 10 12 38
Penticton eP 11 51 51	Resolute eP 23 20 24 c	Resolute eP 10 13 26 c
Resolute eP 11 52 10	Yellowknife eP 23 19 14	Yellowknife eP 10 13 23
Yellowknife eP 11 51 57	APRIL 11 U.S.C.G.S. 51.9N, 176.2W	APRIL 11 U.S.C.G.S. 52.4N, 155.1E
APRIL 10 Mould Bay eP 12 56 50 (c)	Andreanof Islands, Aleutian Islands H = 01 13 44.3	Near west coast of Kamchatka H = 11 02 17
APRIL 10 U.S.C.G.S. 15.9N, 91.7W	h = about 70 km Mag 4.4 (CGS)	h = about 33 km
Guatemala H = 14 12 08.9	Mould Bay eP 01 20 11 d	Mould Bay eP 11 09 42 c
h = about 150 km Mag 4.3 (CGS)	i 01 20 29	Yellowknife eP 11 10 40
Mould Bay eP 14 22 10	Penticton iP 01 20 34 c	
i 14 22 41	Yellowknife eP 01 20 19	
Yellowknife eP 14 20 41	APRIL 11 Mould Bay eP 09 00 24	

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

SEISMOLOGICAL BULLETIN - 1963

Coppermine iP 02 32 46 d	Mould Bay eP 11 33 49	Mould Bay eP 15 00 24 (c)
Halifax iP 02 29 56 d	Resolute e(P) 11 34 30	i 15 00 53
London iP 02 29 33 d	Yellowknife eP 11 34 38	Yellowknife iP 15 01 43
Mould Bay iP 02 33 25 d		
i 02 33 56	APRIL 13	APRIL 13
iS 02 43 46	Yellowknife eP 14 07 58	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)
Ottawa iP 02 29 51 d		Mould Bay eP 19 04 07
iS 02 37 06	APRIL 13	Penticton iP 19 01 39
Penticton iP 02 31 38 d	H = 14 28 29	Yellowknife iP 19 02 42
Port Hardy eP 02 32 07 d	Mag 1.7	
Resolute iP 02 33 02 d	Penticton iP ₁ 14 28 41.8	
Schefferville iP 02 31 02 d	iS ₁ 14 28 51.6	
Shawinigan Falls iP 02 30 00 d	D = 81 km	
Victoria P 02 31 46 d	APRIL 13	APRIL 13
Yellowknife iP 02 32 23 d	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)	H = 19 41 53 Mag 2.7 Penticton eP _n 19 42 39.5 eS _n 19 43 15.5 D = 326 km
APRIL 13	Coppermine eP 14 45 05	Victoria eP ₁ 19 42 22.4 eS ₁ 19 42 45.0 D = 185 km
Penticton iP 02 44 33	Mould Bay eP 14 44 49 (c)	
APRIL 13	Resolute eP 14 45 17	
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)	Yellowknife iP 14 45 14	
	APRIL 13	
	Coppermine eP 15 01 14	

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	Resolute eP' 05 51 16 Schefferville eP' 05 51 (34)	Mould Bay eP 08 02 27
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 06 35 14	APRIL 14 Yellowknife e(P) 11 16 44
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 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 Mould Bay eP 11 35 10 Yellowknife iP 11 34 04
APRIL 14 Yellowknife iP 00 03 00	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 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 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)	APRIL 14 U.S.C.G.S. 30.6N, 140.8E South of Honshu, Japan H = 07 52 05.1 h = about 33 km	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)	Penticton iP 05 53 10 d	APRIL 15 Resolute e(P) 22 05 27
Resolute eP 19 09 35 d	Schefferville eP 05 52 32 c	
Yellowknife iP 19 09 41	Yellowknife iP 05 53 45 d	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 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 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 Mould Bay i(P) 00 32 26 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
APRIL 15 Resolute e 01 45 (16)	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 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)	APRIL 15 Mould Bay eP 21 34 08	

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 \pm 0.4°,
74.7° W \pm 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_n 21 31 45
 L_g
 D = 1510 km

Resolute
 P_n 21 26 06
 S_n 21 27 20
 L_n 21 27 55
 L_g
 D = 715 km

Schefferville
 L_g 21 33 32
 D = 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
 (PAS)
 6 (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	Yellowknife eP 06 00 26	Penticton eP _n 13 27 22 D = 765 km
Schefferville eP' 16 36 29		Port Hardy eP ₁ 13 26 08.2 eS ₁ 13 26 27.8 D = 160 km
Yellowknife eP' 16 36 56 i 16 37 09	APRIL 20 Penticton eP 07 00 08	Victoria eP _n 13 26 53.2 D = 526 km
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 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 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 Coppermine eP 03 14 20 Yellowknife eP 03 14 21	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	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 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		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)

SEISMOLOGICAL BULLETIN - 1963

Port Hardy	APRIL 23	APRIL 24
eP ₁ 12 58 27.0	Mould Bay	U.S.C.G.S.
eS ₁ 12 58 42.8	eP 22 10 50	17.2S, 174.5W
D = 130 km	Yellowknife	Tonga Islands
Victoria	iP 22 10 34	Region
eP _n 12 59 11.2		H = 03 55 06.6
D = 478 km		h = about 190 km
Yellowknife	APRIL 23	Mag 4.7 (CGS)
iP 13 01 23 c	Mould Bay	Edmonton
	eP 22 34 05	eP 04 07 35
	Resolute	Penticton
	e(P) 22 33 (58)	eP 04 07 09
APRIL 23		Yellowknife
U.S.C.G.S.		iP 04 07 27
42.6N, 19.5E		
Yugoslavia-Albania	APRIL 24	APRIL 24
Border	Edmonton	U.S.C.G.S.
H = 14 02 56.8	eP 01 35 57	1.1S, 127.2E
h = about 38 km	Mould Bay	Halmahera Region
Mag 5.1 (CGS)	eP 01 35 35 d	H = 05 51 44.1
Alert	Yellowknife	h = about 33 km
eP 14 11 27	eP 01 35 31	Mag 4.8 (CGS)
Coppermine		Coppermine
eP 14 13 32		eP 06 05 32
Edmonton	APRIL 24	Mould Bay
eP 14 14 (43)	U.S.C.G.S.	eP 06 05 11
Mould Bay	0.8S, 91.6W	Resolute
eP 14 12 51 c	Galapagos Islands	eP 06 05 38
Resolute	Region	
eP 14 12 28 (c)	H = 02 33 10.1	
Schefferville	h = about 33 km	
eP 14 12 23	Mag 4.1 (CGS)	
	Coppermine	APRIL 24
	eP 02 44 20	U.S.C.G.S.
APRIL 23	Edmonton	27.0N, 128.8E
U.S.C.G.S.	eP 02 42 (50)	Ryukyu Islands
5.1S, 146.1E	Mould Bay	Region
Near Northeast	(eP) 02 45 07	H = 13 32 12.2
coast of New	Penticton	h = about 33 km
Guinea	eP 02 42 42	Mag 5.1 (CGS)
H = 18 52 24.4	Yellowknife	Alert
h = about 134 km	eP 02 43 47	eP 13 43 26 d
Mould Bay		Coppermine
eP 19 05 37		eP 13 43 47 d

DOMINION OBSERVATORIES

Edmonton eP 13 44 39 c	APRIL 24 U.S.C.G.S. 20.8S, 179.1W	Edmonton eP' 08 30 (13)
Mould Bay eP 13 43 16 d	Fiji Islands Region H = 21 42 49.0 h = about 603 km Mag 5.1 (CGS)	Mould Bay eP 08 25 03 c
Penticton eP 13 44 34	Coppermine eP 21 55 30	Yellowknife iP 08 25 40
Resolute eP 13 43 50 d	Mould Bay eP 21 55 (45)	APRIL 25 Halifax iP 08 33 39 c
APRIL 24 Mould Bay eP 14 35 44 (c)	Penticton iP 21 54 35 d	APRIL 25 Edmonton eP 09 49 39
Resolute eP 14 36 23	Resolute eP' 22 00 08	Mould Bay eP 09 48 52
APRIL 24 U.S.C.G.S. 52.1N, 157.3E	Yellowknife iP 21 55 18 c	
Kamchatka H = 15 58 07.4 h = about 33 km Mag 4.3 (CGS)	APRIL 25 Coppermine eP 06 08 24	APRIL 25 U.S.C.G.S. 31.7N, 140.5E
Mould Bay eP 16 05 29 i 16 07 41	Edmonton eP 06 09 (30)	South of Honshu, Japan H = 11 19 18.4 h = about 53 km Mag 4.1 (CGS)
APRIL 24 U.S.C.G.S. 36.3N, 71.4E	Mould Bay eP 06 09 (03) i 06 09 08	Edmonton eP 11 30 (51)
Hindu Kush Region H = 20 31 08.9 h = about 125 km	Resolute eP 06 09 58	Mould Bay eP 11 29 33
Mould Bay eP 20 41 53 (c)	Yellowknife eP 06 08 28 i 06 12 38	Penticton eP 11 30 40
	APRIL 25 U.S.C.G.S. 4.7N, 122.4E	Resolute eP 11 30 13
	Celebe Sea H = 08 12 57.2 h = about 610 km Mag 5.5 (CGS)	Yellowknife iP 11 30 18 d

SEISMOLOGICAL BULLETIN - 1963

<p>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</p>	<p>APRIL 25 Mould Bay eP 18 00 43</p> <p>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</p> <p>APRIL 26 Mould Bay eP 00 47 43</p> <p>APRIL 26 Resolute e(P) 04 17 09</p> <p>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</p>	<p>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</p> <p>APRIL 26 Mould Bay eP 12 25 22 c Resolute eP 12 26 01</p> <p>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</p>
<p>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</p>		
<p>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)</p>		

DOMINION OBSERVATORIES

APRIL 26	APRIL 27	APRIL 27
U.S.C.G.S.	Resolute	Resolute
18.1S, 69.0W	eP 00 50 (55)	eP 06 19 (52)
Peru-Chile		
Border		
H = 16 44 12.0	APRIL 27	APRIL 27
h = about 110 km	Resolute	U.S.C.G.S.
Mag 4.7 (CGS)	eP 02 10 18	0.6S, 128.4E
Mould Bay		Halmahera Region
eP 16 57 43		H = 08 42 58
Penticton	APRIL 27	h = about 33 km
eP 16 56 14	U.S.C.G.S.	Mag 4.9 (CGS)
Resolute	66.7N, 19.2W	Edmonton
eP 16 57 (19)	Off north coast	eP' 09 01.4
Schefferville	of Iceland	Mould Bay
eP 16 55 29	H = 03 42 33.9	eP 08 56 24
Sept Iles	h = about 33 km	Resolute
eP 16 55 00 c	Mag 4.6 (CGS)	eP 08 56 52 d
Shawinigan Falls	Alert	Shawinigan Falls
eP 16 54 37	eP 03 46 49	eP' 09 02 (16)
Yellowknife	Coppermine	
iP 16 56 50 d	eP 03 49 13	
	Edmonton	APRIL 27
	eP 03 50 (43)	U.S.C.G.S.
APRIL 26	Mould Bay	22.8S, 68.9W
U.S.C.G.S.	eP 03 48 41	Northern Chile
24.1N, 122.5E	Resolute	H = 11 03 29.1
Off east coast	eP 03 47 (55)	h = about 100 km
of Formosa	Schefferville	Mag 4.8 (CGS)
H = 23 45 01.2	eP 03 47 (56)	Edmonton
h = about 33 km		iP 11 15 54 c
Mag 4.9 (CGS)		Penticton
Coppermine	APRIL 27	eP 11 15 54
eP 23 57 02	U.S.C.G.S.	Schefferville
Edmonton	44.8N, 110.4W	eP 11 15 (33)
iP 23 57 55 c	Yellowstone National	
Mould Bay	Park, Wyoming	APRIL 27
eP 23 56 28	H = 04 53 50.9	Edmonton
Penticton	h = about 33 km	eP 13 17 40 d
iP 23 57 53 c	Mag 4.4 (CGS)	
Resolute	Edmonton	
eP 23 57 (00)	eP 04 55 59	
	Penticton	
	eP 04 55 51	

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 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	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
APRIL 28 Yellowknife iP 18 26 57 d	Mould Bay eP 05 14 55 Resolute eP 05 15 26 Yellowknife iP 05 15 49	Edmonton eP' 15 11 08 Halifax eP' 15 11 38 (d) Mould Bay eP' 15 11 28 i 15 11 36
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 29 Penticton eP 07 43 14	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 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 Edmonton eP 07 55 23 Penticton eP 07 54 20 Victoria P 07 53 43	APRIL 29 Schefferville eP 19 38 (38) Sept Iles iP 19 38 48 d
APRIL 29 Resolute e(P) 04 50 27	APRIL 29 Mould Bay eP 10 16 20	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		London		Mould Bay	
eP	20 46 28	eP	21 54 (43)	iP	00 42 46 c
Banff		Mould Bay		Resolute	
eP	20 43 01	iP	21 50 59 c	eP	00 43 38
Edmonton		Ottawa		Yellowknife	
eP	20 43 08 c	eP	21 54 48	iP	00 43 04
London		Penticton			
eP	20 41 24	iP	21 51 33 c	APRIL 30	
Mould Bay		Resolute		U.S.C.G.S.	
eP	20 45 49	eP	21 51 51	0.7S, 129.0E	
Ottawa		Schefferville		Halmahera Region	
eP	20 42 14	eP	21 54 25 c	H = 00 58 18.3	
Penticton		Sept Iles		h = about 33 km	
iP	20 43 04	iP	21 54 51 c	Mag 6 3/4 (PAS)	
Resolute		Shawinigan Falls		.6 1/2 (PAL)	
eP	20 45 26 (d)	eP	21 54 50	5.6 (CGS)	
Schefferville		Victoria			
eP	20 43 32	P	21 51 19	Coppermine	
Yellowknife		Yellowknife		eP	01 12 05
iP	20 44 15 c	iP	21 51 17 c	Edmonton	
				eP'	01 16 (50)
APRIL 29		APRIL 29		Halifax	
U.S.C.G.S.		Resolute		eP'	01 17 (34)
51.4N, 178.6E		eP	22 30 30	London	
Andreanof Islands,				eP'	01 17 34 (d)
Aleutian Islands		APRIL 30		Mould Bay	
H = 21 44 17.1		Mould Bay		eP	01 11 44
h = about 60 km		eP	00 05 32	Ottawa	
Mag 6 (PAS)				eP'	01 17 30
5- 5 1/4				Resolute	
(BRK)				eP	01 12 (12)
6 (PAL)		APRIL 30		Schefferville	
Alert		U.S.C.G.S.		eP'	01 17 24 d
iP	21 52 12 c	51.3N, 178.5E		Shawinigan Falls	
Banff		Andreanof Islands,		eP'	01 17 35 c
eP	21 51 45	Aleutian Islands		Yellowknife	
Coppermine		H = 00 36 03.0		eP	01 12 (15)
eP	21 51 07 (c)	h = about 66 km			
Edmonton		Mag 4.6 (CGS)		APRIL 30	
eP	21 52 48 c	Alert		Mould Bay	
Halifax		eP	00 43 59	eP	01 41 11
eP	21 55 26				

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	Yellowknife	Penticton
U.S.C.G.S.	iP 11 12 48 d	eP ₁ 12 28 22.4
17.1S, 175.1W		eS ₁ 12 28 43.0
Tonga Islands		D = 168 km
H = 08 26 22.7	APRIL 30	
h = about 219 km	Resolute	
Mag 4.9 (CGS)	e(P) 15 31 48	MAY 1
Edmonton		U.S.C.G.S.
eP 08 38 48		52.4N, 174.5W
Mould Bay	APRIL 30	Andreanof Islands,
eP 08 38 30	U.S.C.G.S.	Aleutian Islands
	8.2S, 79.9W	H = 01 05 17.7
	Near coast of	h = about 78 km
APRIL 30	Peru	Mag 5.2 (CGS)
Resolute	H = 18 43 14.0	Coppermine
e(P) 09 38 16	h = about 60 km	eP 01 11 38
	Mag 4.8 (CGS)	Edmonton
	Alert	iP 01 12 13 c
APRIL 30	i 18 56 12	Mould Bay
U.S.C.G.S.	Coppermine	eP 01 11 38
10.6N, 94.4E	eP 18 55 17	i 01 11 54
Andaman Islands	Edmonton	Penticton
Region	eP 18 54 04 (c)	iP 01 11 57 c
H = 10 20 54	Mould Bay	Resolute
h = about 33 km	eP 18 55 55 c	eP 01 12 (24)
Resolute	Penticton	Yellowknife
eP 10 34 (13)	eP 18 54 03	eP 01 11 44
	Resolute	i 01 14 28
	eP 18 55 (34)	
APRIL 30	Schefferville	MAY 1
U.S.C.G.S.	eP 18 53 40	Coppermine
15.2N, 93.0W	Shawinigan Falls	eP 01 18 02
Chiapas, Mexico	eP 18 52 (48)	Mould Bay
H = 11 03 59.6	Yellowknife	eP 01 18 02
h = about 33 km	iP 18 54 52	i 01 18 34
Mag 4.3 (CGS)		Resolute
Edmonton	APRIL 30	e(P) 01 18 24
eP 11 11 41	H = 12 27 55	
Mould Bay	Mag 1.8	MAY 1
eP 11 14 39 c		Mould Bay
Resolute		eP 07 38 52
eP 11 13 58		

DOMINION OBSERVATORIES

Resolute eP	07 39 18 (c)	Yellowknife iP	10 16 53	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 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)		MAY 1 Mould Bay eP	13 26 11	MAY 2 Canadian Arctic H = 03 05 29 Mag 1.9 Resolute P ₁ 03 05 50 S ₁ 03 06 06 D = 131 km	
Alert eP'	10 21 42	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 2 Mould Bay eP	06 18 48
Banff eP	10 16 30	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 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
Coppermine eP	10 17 00 c	MAY 1 Edmonton eP	22 05 03	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)	
i	10 17 37	MAY 1 Penticton eP	22 48 01		
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				

SEISMOLOGICAL BULLETIN - 1963

Coppermine		MAY 3		MAY 3	
eP	23 16 36	U.S.C.G.S.		U.S.C.G.S.	
Mould Bay		30.7N, 51.7E		17.6N, 91.8W	
eP	23 16 58	Iran		Chiapas, Mexico	
i	23 19 56	H = 10 44 28.0		H = 19 18 14.5	
Penticton		h = about 25 km		h = about 90 km	
eP	23 17 53	Mag 5.3 (CGS)		Mag 4.1 (CGS)	
Resolute		Mould Bay		Mould Bay	
eP	23 17 57 (d)	eP	10 55 58 c	eP	19 28 20
Yellowknife				Yellowknife	
iP	23 16 50			iP	19 26 45 c
		MAY 3			
MAY 3		U.S.C.G.S.		MAY 3	
Mould Bay		15.0S, 173.3W		Yellowknife	
iP	01 09 21	Tonga Islands		iP	19 44 52
		H = 10 54 43.0			
		h = about 33 km			
		Mag 5.0 (CGS)			
MAY 3		Mould Bay		MAY 3	
Resolute		eP	11 08 11	74°24'N ± 18',	
e(P)	01 21 40	Penticton		86°30'W ± 40'	
		eP	11 06 50	Brodeur Peninsula,	
		Yellowknife		Baffin Island, N.W.T.	
		eP	11 07 40	H = 21 21 10.6	
				Mag 4.0	
MAY 3				Coppermine	
Canadian Arctic		MAY 3		P _n	21 23 40
H = 02 13 25.5		U.S.C.G.S.		S _n	21 25 33
Mag 2.4		45.0N, 111.2W		L _g	21 26 39
Resolute		Hebgen Lake		D = 1150 km	
P ₁	02 14 19.5	Region, Montana		Mould Bay	
S ₁	02 15 00.5	H = 16 32 56.0		P _n	21 23 34
D = 336 km		h = about 33 km		S _n	21 25 27
		Penticton		L	21 26 31
MAY 3		e	16 36 06	D _g = 1125 km	
Mould Bay				Resolute	
eP	10 50 21			P _n	21 22 10.5
i	10 53 03			(P ₁)	21 22 22.5
Penticton				i	21 22 50.5
eP	10 50 41			S _n	21 22 57
Resolute				L _g	21 23 17
e	10 53 (21)			D = 450 km	

SEISMOLOGICAL BULLETIN - 1963

MAY 4 Canadian Arctic H = 17 45 00.5 Mag 1.8 Resolute P ₁ 17 45 11 S ₁ 17 45 19 D = 65.5 km	MAY 4 Yellowknife eP 19 45 16	Resolute eP 00 03 (37) Yellowknife iP 00 02 17
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 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 5 Coppermine eP 00 21 23 Edmonton eP 00 22 25
MAY 4 Mould Bay eP 19 16 04 (c) Yellowknife iP 19 14 09	MAY 4 Coppermine eP 22 18 02 Mould Bay eP 22 18 35 Yellowknife iP 22 17 43 c	MAY 5 Resolute eP 06 54 17
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 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 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 Coppermine eP 00 02 20 d Edmonton eP 00 03 (06) Mould Bay eP 00 02 46	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		MAY 5		Mould Bay	
eP	12 52 27	U.S.C.G.S.		eP	08 52 44
Mould Bay		17.5S, 173.7W		Resolute	
eP	12 55 04	Tonga Islands		eP'	08 57 02
i	12 55 41	Region		Yellowknife	
Yellowknife		H = 17 11 47.2		eP'	08 57 10
iP	12 53 33 c	h = about 33 km			
		Mag 5.0 (CGS)			
		Coppermine		MAY 6	
MAY 5		eP	17 25 06	Schefferville	
Resolute		Edmonton		eP	09 01 09
e(P)	13 24 38	eP	17 24 36		
		Yellowknife			
		eP	17 24 57		
				MAY 6	
MAY 5				Coppermine	
U.S.C.G.S.				eP	11 52 08
24.7S, 69.5W		MAY 5			
Northern Chile		Coppermine			
H = 15 17 01.9		eP	22 01 08	MAY 6	
h = about 50 km				49° 04'N,	
Mag 5.1 (CGS)				122° 15'W	
Coppermine				East of	
eP	15 30 34	MAY 6		Abbotsford	
Edmonton		Mould Bay		H = 14 33 33	
iP	15 29 39 c	iP	00 13 36	Mag 2.3	
Halifax				Alberni	
eP	15 28 07			iP ₁	14 34 01.4
London				D = 192 km	
iP	15 27 59 d			Penticton	
Mould Bay		MAY 6		iP ₁	14 34 01.6
eP	15 31 05	U.S.C.G.S.		iS ₁	14 34 24.5
i	15 35 23	9.1S, 112.5E		D = 194 km	
Ottawa		Near south coast		Victoria	
eP	15 28 10	of Java		iP ₁	14 33 47.7
Penticton		H = 08 38 33.3		iS ₁	14 33 58.8
eP	15 29 39	h = about 84 km		D = 106 km	
Schefferville		Mag 5.7 (CGS)			
eP	15 29 04	Coppermine			
Shawinigan Falls		eP'	08 57 03		
eP	15 28 16	Edmonton			
Yellowknife		eP'	08 57 23 c		
iP	15 30 15	Halifax		MAY 6	
		eP'	08 58 02 c	Resolute	
		London		eP	14 52 12
		iP'	08 58 01		

SEISMOLOGICAL BULLETIN - 1963

MAY 6	Coppermine	Mould Bay
U.S.C.G.S.	iP 03 28 03 d	eP 05 19 48
39.5N, 20.6E	Mould Bay	i 05 23 (01)
Greece-Albania	eP 03 27 12 c	Penticton
Border	i 03 28 05	iP 05 21 03
H = 19 30 28.2		Schefferville
h = about 33 km		eP 05 23 47
Mag 5.1 (CGS)	MAY 7	Shawinigan Falls
Coppermine	Mould Bay	eP 05 24 18
eP 19 41 (27)	eP 05 01 19	Yellowknife
Mould Bay		iP 05 19 45
eP 19 40 46		
	MAY 7	
	U.S.C.G.S.	MAY 7
MAY 7	18.8N, 145.5E	Sept Iles
U.S.C.G.S.	Mariana Islands	iP 15 47 14 c
36.7N, 83.1E	Region	
Sinkiang Prov.,	H = 05 00 50.3	
China	h = about 93 km	
H = 02 17 37.4	Mag 4.9 (CGS)	MAY 7
h = about 33 km	Coppermine	U.S.C.G.S.
Mag 5.8 (CGS)	iP 05 12 29 d	22.0S, 68.6W
Coppermine	Mould Bay	Northern Chile
eP 02 29 08 c	eP 05 12 11 d	H = 16 23 11.2
Mould Bay	Penticton	h = about 110 km
eP 02 28 17 c	eP 05 12 46	Mag 5.4 (CGS)
i 02 28 23	Resolute	Coppermine
Penticton	eP 05 12 47 d	iP 16 36 26 d
eP 02 30 38	Yellowknife	London
Resolute	iP 05 12 39	iP 16 33 45 d
eP 02 28 (38)		Mould Bay
Yellowknife		eP 16 36 57
iP 02 29 38		Ottawa
	MAY 7	eP 16 33 56
	U.S.C.G.S.	Penticton
MAY 7	64.5N, 146.9W	iP 16 35 33 d
U.S.C.G.S.	Central Alaska	Resolute
36.6N, 70.8E	H = 05 16 21.3	eP 16 36 36
Hindu Kush	h = about 33 km	Schefferville
Region	Mag 4.5 (CGS)	eP 16 34 50 d
H = 03 16 41.4	Coppermine	Shawinigan Falls
h = about 230 km	iP 05 19 27 c	eP 16 34 02
Mag 4.4 (CGS)		Victoria
		P 16 35 38

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 Canadian Arctic H = 15 43 47.1 Mag 2.8 Alert eP ₁ 15 44 20 i 15 44 25 i 15 44 34 iS ₁ 15 44 44 D = 205 km	MAY 8 Coppermine eP 21 28 51
MAY 8 Mould Bay eP 14 27 19	MAY 8 Coppermine eP 15 48 05 Resolute eP 15 49 05 d Yellowknife eP 15 48 05	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 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 Yellowknife iP 15 54 00	MAY 8 Coppermine iP 21 47 31 c
MAY 8 Edmonton eP 20 18 54 d Mould Bay eP 20 18 16	MAY 8 H = 18 42 59 Mag 1.8 Alberni eP ₁ 18 43 23.6 D = 155 km Victoria iP ₁ 18 43 05.0 iS ₁ 18 43 09.8 D = 39 km	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 eP ₁ 05 08 46.8 D = 138 km

DOMINION OBSERVATORIES

Penticton eP _n 05 09 01 D = 252 km	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)	Yellowknife eP 15 15 44
Victoria iP ₁ 05 08 33.8 eS ₁ 05 08 44.0 D = 57 km	Alert eP 15 14 56	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 Resolute e(P) 05 28 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 Sept Iles eP 17 33 54
MAY 9 Coppermine eP 06 27 03 Resolute eP 06 27 01	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 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 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	MAY 9 Edmonton eP 18 42 (10) Penticton eP 18 41 (14) Yellowknife e 18 47 (50)
MAY 9 Yellowknife eP 13 29 12		

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.
51.1N, 172.9E
Near Islands,
Aleutian Islands
H = 03 06 50
h = about 33 km
Mag 4.2 (CGS)
Mould Bay
iP 03 13 18
Resolute
eP 03 14 07 (d)

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

Edmonton
eP 19 12 29
Penticton
eP 19 12 45

MAY 10

H = 21 59 36
Mag 1.4
Victoria
iP₁ 21 59 40.1
iS₁ 21 59 43.3
D = 26 km

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

DOMINION OBSERVATORIES

Penticton		MAY 12		MAY 12
iP	01 17 59 c	U.S.C.G.S.		U.S.C.G.S.
Resolute		57.5S, 159.4E		3.4S, 146.9E
eP	01 17 04 c	Macquarie		Bismark Sea
Yellowknife		Islands		H = 19 22 30.8
iP	01 17 23 c	Region		h = about 33 km
		H = 09 42 58.3		Mag 4.9 (CGS)
		h = about 44 km		Yellowknife
		Mag 6.2 (CGS)		eP
MAY 12		Alert		19 36 01
U.S.C.G.S.		eP'	10 02 40	
36.5N, 140.6E		i	10 02 48	
Near east coast		Coppermine		MAY 12
of Honshu, Japan		eP'	10 02 13	U.S.C.G.S.
H = 02 57 15.5		Edmonton		57.4N, 153.9W
h = about 33 km		eP'	10 02 02	Kodiak Island,
Mag 4.4 (CGS)		Mould Bay		Alaska
Coppermine		eP'	10 02 21.5	H = 20 08 43.0
eP	03 07 32	Ottawa		h = about 80 km
Edmonton		eP'	10 02 26	Mag 5.9 (CGS)
eP	03 08 26	Penticton		Alert
Mould Bay		iP'	10 01 54 c	iP
eP	03 07 01 (c)	Resolute		20 15 19 d
Resolute		eP'	10 02 31	Coppermine
eP	03 07 42 c	Schefferville		iP
Yellowknife		eP'	10 02 43 d	20 13 14 d
eP	03 07 (51)	Sept Iles		Edmonton
		iP'	10 02 47	iP
		Shawinigan Falls		20 13 44 d
		iP'	10 02 34 c	Halifax
		Yellowknife		eP
		eP'	10 02 03	20 18 00 d
				London
MAY 12				iP
H = 07 29 55				20 17 03 d
Mag 1.2				Mould Bay
Alberni				iP
eP ₁	07 30 16.0			20 13 38.5 c
D = 132 km				iS
Victoria				20 17 46.5
iP ₁	07 29 58.3	MAY 12		Ottawa
iS ₁	07 30 00.8	Resolute		iP
D = 21 km		e(P)	10 45 (02)	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	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
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		

DOMINION OBSERVATORIES

MAY 13	Yellowknife	MAY 13
U.S.C.G.S.	iP 14 21 18	Resolute
14.1N, 93.1W		eP 18 55 26
Off coast of		
Chiapas, Mexico	MAY 13	
H = 13 12 55.6	Mould Bay	MAY 13
h = about 33 km	eP 16 02 56	Coppermine
Coppermine		e 20 35 05
iP 13 22 30 c		Mould Bay
Edmonton	MAY 13	i 20 31 46
eP 13 20 47 c	U.S.C.G.S.	e 20 36 00
Mould Bay	61.1N, 150.8W	
eP 13 23 25 c	Kenai Peninsula	
Resolute	Region, Alaska	MAY 13
eP 13 23 04 d	H = 17 50 20.4	Coppermine
Victoria	h = about 93 km	eP 20 50 49
P 13 20 49	Mag 4.5 (CGS)	Mould Bay
Yellowknife	Alert	iP 20 51 12
iP 13 21 53 c	eP 17 56 20	
	Coppermine	
	iP 17 54 05 (c)	MAY 14
MAY 13	Edmonton	Resolute
U.S.C.G.S.	eP 17 55 02	eP 05 30 49
19.5S, 169.3E	Mould Bay	
New Hebrides	iP 17 54 32 (d)	
Islands	Penticton	MAY 14
H = 14 07 46.8	eP 17 54 57	U.S.C.G.S.
h = about 163 km	Yellowknife	10.0N, 62.0W
Mag 5.6 (CGS)	eP 17 54 12	Near coast of
Coppermine		Venezuela
iP 14 21 26		H = 08 05 30.5
Edmonton	MAY 13	h = about 53 km
eP 14 21 06	U.S.C.G.S.	Edmonton
Mould Bay	20.6S, 70.7W	eP 08 15 29 d
eP 14 21 33	Near coast of	Mould Bay
i 14 29 08	northern Chile	eP 08 16 55
Sept Iles	H = 18 03 04.4	
eP' 14 26 30	h = about 33 km	
Shawinigan Falls	Edmonton	
eP' 14 26 23	eP 18 15 25	
Victoria	Yellowknife	
P 14 20 30	eP 18 16 01	

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	Mould Bay	Alert
U.S.C.G.S.	iP 15 43 39	P _n 15 14 07.5c,n,e
38.0N, 26.4W	Resolute	S _n 15 14 47.9
Azores Region	eP 15 44 10 c	L _g 15 15 07.5
H = 12 08 08.8		D = 400 km
h = about 33 km		Mould Bay
Mag 5.3 (CGS)	MAY 15	P _n 15 15 08
Alert	Coppermine	S _n 15 16 36
eP 12 16 31	eP 19 18 21	D = 895 km
Coppermine		Resolute
iP 12 17 37 d		P _n 15 14 52
Edmonton	MAY 15	S _n 15 15 08
eP 12 18 07	Coppermine	D = 775 km
Mould Bay	eP 19 48 02	
eP 12 17 31.5 d		
Penticton		
eP 12 18 42	MAY 16	MAY 16
Resolute	Mould Bay	U.S.C.G.S.
eP 12 16 47 d	eP 03 40 19	0.8S, 128.5E
Sept Iles		Halmahera Region
eP 12 14 29		H = 15 52 18.4
Yellowknife	MAY 16	h = about 50 km
iP 12 17 47 c	Mould Bay	Mag 4.4 (CGS)
	eP 06 44 32 (c)	Coppermine
		eP 16 06 (05)
		Mould Bay
		eP 16 05 (40)
		Resolute
		eP 16 06 (07)
MAY 15	MAY 16	
Mould Bay	Resolute	
eP 13 45 38 (c)	e(P) 06 47 (03)	
MAY 15	MAY 16	MAY 16
U.S.C.G.S.	81°30'N ± 15',	Resolute
24.1N, 122.8E	86°30'W ± 1.0°	e(P) 16 14 (55)
Off east coast	About 30 miles	
of Formosa	north of Otto	
H = 15 32 11.3	Fiord, Ellesmere	
h = about 33 km	Island, N.W.T.	
Mag 5.6 (CGS)	H = 15 13 12.2	MAY 16
Coppermine	Mag 3.7	U.S.C.G.S.
iP 15 44 12 c		1.0S, 128.8E
Edmonton		Halmahera Region
eP 15 45 05 c		H = 16 17 59.8
		h = about 33 km
		Mag 4.3 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Coppermine eP 16 31 46	Coppermine eP 20 51 42	MAY 17 Resolute
Mould Bay eP 16 31 25	i 20 51 49	e(P) 03 37 11
Resolute eP 16 31 (53)	Edmonton eP 20 50 06 (c)	
MAY 16 47°41'N, 123°09'W H = 19 01 25 Mag 1.9	Mould Bay eP 20 52 41	MAY 17 U.S.C.G.S. 45.3N, 150.8E
Alberni eP ₁ 19 01 47.4 D = 138 km	i 20 52·45	Kurile Islands Region H = 04 06 36.2 h = about 33 km Mag 5.9 (CGS)
Victoria iP ₁ 19 01 29.4 iS ₁ 19 01 32.5 D = 25 km	Penticton iP 20 50 02	Alert eP 04 15 39
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)	Resolute eP 20 52 23 c	Coppermine iP 04 15 33 c
Penticton iP 19 31 45	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)	Edmonton iP 04 16 31 c
MAY 16 U.S.C.G.S. 16.8N, 99.0W Guerrero, Mexico H = 20 42 33.5 h = about 33 km	Coppermine eP 22 15 31	Mould Bay eP 04 15 02 c iS 04 21 47
Alert eP 20 53 21	Resolute eP 22 15 41 c	Ottawa eP 04 18 46 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)	Penticton iP 04 16 23 c
	Coppermine eP 23 46 40	Resolute eP 04 15 49 c
	MAY 17 Ottawa eP 00 04 (50)	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 Schefferville eP 22 36 (35)	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 17 Edmonton eP 14 58 (56)	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)	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
MAY 17 Resolute e(P) 17 26 (49)	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 Mould Bay eP 17 29 04 Resolute eP 17 29 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 H = 21 43 33 Mag 1.6 Penticton eP ₁ 21 43 57.2 eS ₁ 21 44 16.6 D = 151 km		
MAY 17 H = 21 44 54 Mag 1.3 Banff eP ₁ 21 44 59 eS ₁ 21 45 03 D = 33 km		

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

Penticton

eP 14 04 29
D = 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 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.
16.0N, 119.5E

Near west coast
of Luzon, P.I.

H = 16 43 12.3
h = about 47 km

Mag 5.0 (CGS)

Mould Bay

eP 16 55 26

Resolute

eP 16 55 54

MAY 19

Edmonton

e(P) 00 11 (44)

Mould Bay

iP 00 09 36 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

U.S.C.G.S.
41.0N, 142.0E

Off east coast of
Honshu, Japan

H = 23 16 16.9
h = about 52 km

Mag 4.7 (CGS)

Alert

eP 23 25 53 c

Mould Bay

eP 23 25 27 c

Resolute

eP 23 26 09 c

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

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

DOMINION OBSERVATORIES

MAY 19	Yellowknife	Mould Bay
U.S.C.G.S.	iP 21 45 48	eP 01 46 41
23.8N, 45.9W		i 01 46 46
North Atlantic		Ottawa
Ocean	MAY 19	eP 01 42 45
H = 21 35 49.6	U.S.C.G.S.	Penticton
h = about 33 km	17.8S, 69.4W	eP 01 44 31
Mag 6 1/4 - 6 1/2	Peru-Bolivia-	Resolute
(BRK)	Chile Border	eP 01 46 (19)
6 1/2 (PAS)	Region	Schefferville
6.0 (CGS)	H = 23 31 25.7	eP 01 44 09
Alert	h = about 148 km	
eP 21 45 48	Mag 5.5 (CGS)	MAY 20
S 21 53 57	Banff	Mould Bay
Banff	eP 23 43 18	eP 01 51 36
eP 21 45 49	Coppermine	
Coppermine	eP 23 44 17	MAY 20
iP 21 45 58 c	Edmonton	U.S.C.G.S.
Edmonton	iP 23 43 21 d	8.3N, 83.0W
eP 21 45 40 d	Mould Bay	Panama-Costa
Halifax	eP 23 44 49	Rica Border
iP 21 41 16 (c)	i 23 45 30	H = 02 43 16.3
London	Penticton	h = about 33 km
iP 21 42 40 c	iP 23 43 23 d	Mag 4.3 (CGS)
Mould Bay	Resolute	Edmonton
eP 21 46 15.5	eP 23 44 27 (d)	eP 02 52 (14)
Ottawa	Schefferville	Mould Bay
iP 21 42 18 (c)	eP 23 42 36	eP 02 54 28
Penticton	Victoria	Resolute
iP 21 46 08 d	P 23 43 29	eP 02 54 (04)
Port Hardy		
eP 21 45 40	MAY 20	
Resolute	U.S.C.G.S.	MAY 20
eP 21 45 32 (d)	8.3N, 83.0W	Coppermine
Schefferville	Panama-Costa	eP 05 31 13
eP 21 42 37	Rica Border	
Scarboro	H = 01 35 32.7	MAY 20
iP 21 42 31 c	h = about 33 km	Penticton
Shawinigan Falls	Coppermine	eP 07 23 12
iP 21 42 (10) d	eP 01 46 03	
Victoria	Edmonton	
P 21 46 23	eP 01 44 32 (c)	

SEISMOLOGICAL BULLETIN - 1963

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 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	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
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 Coppermine eP 12 51 28	

DOMINION OBSERVATORIES

Mould Bay eP 17 07 18.5	MAY 21 U.S.C.G.S. 18.9N, 146.0E	MAY 21 U.S.C.G.S. 51.4N, 159.1E
Resolute eP 17 08 (02)	Mariana Islands Region H = 09 44 40.3 h = about 180 km	Off east coast of Kamchatka H = 16 23 28.9 h = about 33 km
MAY 20 Mould Bay iP 19 29 16	Coppermine eP 09 56 08	Mould Bay eP 16 30 52.5
	Mould Bay eP 09 55 50	Resolute eP 16 31 44
MAY 20 U.S.C.G.S. 2.5N, 128.8E	MAY 21 Coppermine eP 10 15 39	MAY 21 U.S.C.G.S. 36.3N, 140.3E
Halmahera Region H = 21 04 57 h = about 148 km	Mould Bay eP 10 15 35.5	Near east coast of Honshu, Japan H = 17 10 47.6 h = about 33 km
Mag 4.9 (CGS)	i 10 15 50	Mag 4.1 (CGS)
Coppermine eP 21 18 15 d	MAY 21 U.S.C.G.S. 21.1S, 69.0W	Coppermine eP 17 21 06
Mould Bay eP 21 17 (54)	Northern Chile H = 10 16 19.1 h = about 110 km	Mould Bay eP 17 20 34
Resolute eP 21 18 23	Edmonton eP 10 28 33 d	MAY 21 U.S.C.G.S. 11.1S, 163.3E
MAY 21 U.S.C.G.S. 56.0S, 123.9W	MAY 21 U.S.C.G.S. 11.0S, 163.1E	Solomon Islands Region H = 17 30 15.4 h = about 33 km
South Pacific Ocean H = 00 58 07.4 h = about 33 km	Solomon Islands Region H = 15 16 06.6 h = about 64 km	Mag 5 3/4 - 6 (PAL) 5.4 (CGS)
Mould Bay eP' 01 17 12	Mag 4.8 (CGS)	Banff eP 17 43 26
MAY 21 Penticton iP 02 01 03	Coppermine eP 15 29 32	Coppermine eP 17 43 45
		Edmonton eP 17 43 36

SEISMOLOGICAL BULLETIN - 1963

Mould Bay eP 17 43 49	Edmonton eP 02 41 (13)	Coppermine iP 05 51 14 c
Penticton eP 17 43 13	Penticton eP 02 40 51	Edmonton eP 05 52 13 c
Victoria eP 17 43 01	Yellowknife iP 02 41 17	Mould Bay eP 05 50 44 d
		Penticton eP 05 52 05
MAY 21 H = 17 49 01 Mag 2.8 In Puget Sound area	MAY 22 Mould Bay eP 02 43 59	Resolute eP 05 51 31
Alberni iP1 17 49 28.7 D = 176 km	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)	MAY 22 Penticton eP 07 36 29
Victoria iP1 17 49 13.5 c iS1 17 49 23.3 D = 81 km	Coppermine eP 04 33 26	MAY 22 U.S.C.G.S. 11.0S, 163.5E Solomon Islands Region H = 10 18 27.0 h = about 37 km Mag 5.2 (CGS)
MAY 21 U.S.C.G.S. 24.0N, 108.6W Gulf of California H = 20 03 32.0 h = about 33 km	Edmonton eP 04 31 28 c	Edmonton eP 10 31 45
Mould Bay eP 20 12 42	Mould Bay eP 04 34 26	
	Resolute eP 04 34 (14)	
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)	MAY 22 Penticton eP 05 16 25	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)
Coppermine eP 02 41 21	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)	Alert eP 14 05 20 Banff eP 14 06 08

DOMINION OBSERVATORIES

Coppermine eP 14 05 08 c	Schefferville eP 15 47 16	Resolute eP 16 32 32 d
Edmonton eP 14 06 09 c		Schefferville eP 16 34 58 d
Halifax eP 14 08 59	MAY 22	
London iP 14 08 32 c	U.S.C.G.S. 4.3N, 127.9E	MAY 22
Mould Bay eP 14 04 38	Molucca Passage H = 15 42 48.6	U.S.C.G.S. 55.1N, 160.2E
Penticton iP 14 06 01 d	h = about 58 km	Kamchatka H = 16 28 49
Resolute eP 14 05 27 c	Mag 5.0 (CGS)	h = about 33 km
Schefferville eP 14 08 01	Coppermine iP 15 56 09 c	Edmonton eP 16 37 27
Sept Iles eP 14 08 26	Edmonton eP 15 56 44	Penticton eP 16 37 16
Shawinigan Falls eP 14 08 32	Mould Bay eP 15 55 48 c	
Victoria eP 14 05 50	Resolute eP 15 56 15 c	MAY 22
	Schefferville eP' 16 01 34	Edmonton eP 16 57 (03)
	Shawinigan Falls eP' 16 01 45 c	
MAY 22		MAY 22
Schefferville eP 14 35 49	MAY 22	Lower Vancouver Island H = 21 29 59
	U.S.C.G.S. 52.2N, 165.3W	Mag 1.4
MAY 22	Fox Islands,	Alberni iP ₁ 21 30 16.3
Edmonton eP 15 43 51	Aleutian Islands H = 16 25 36.8	D = 110 km
Penticton eP 15 43 (03)	h = about 33 km	Victoria iP ₁ 21 30 02.4
	Mag 4.2 (CGS)	iS ₁ 21 30 05.2
	Alert eP 16 33 14	D = 23 km
	Coppermine iP 16 31 32	
MAY 22	Edmonton eP 16 31 53	
Mould Bay eP 15 47 31 c	Mould Bay iP 16 31 44 d	
i 15 51 11	Penticton iP 16 31 33	
i 15 51 40		
Resolute eP 15 47 27 c		

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. 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. 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. 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. 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. 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. 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	Edmonton eP 16 37 23	MAY 23 Mould Bay iP 19 41 05
Mould Bay eP 15 24 56	Mould Bay iP 16 35 53.5	Resolute eP 19 41 52
Resolute eP 15 25 23	Resolute eP 16 36 41 c	
Schefferville eP' 15 30 46 d	Yellowknife iP 16 36 43 (c)	MAY 23 Resolute e(P) 20 21 26
Yellowknife iP 15 25 31		
	MAY 23 Mould Bay eP 17 24 25 (c)	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 Mould Bay eP 15 42 26	MAY 23 Mould Bay eP 17 37 43	
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. 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 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		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 10 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 east 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 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	Mould Bay eP 04 59 44 Resolute eP 05 00 36 Yellowknife eP 05 00 34
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 26 Edmonton eP 04 20 02 c	MAY 26 Alert iP 08 50 29 c
MAY 25 Mould Bay eP 21 00 14 i 21 01 00	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. 16.0S, 173.8W Tonga Islands H = 10 57 59.4 h = about 33 km Edmonton eP 11 10 38 c
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 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)	MAY 26 Penticton eP 11 22 58
MAY 26 Edmonton eP 00 13 (06)		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.

48.5N, 156.4E

Kurile Islands

H = 21 02 19.2

h = about 33 km

Mould Bay

eP 21 10 10

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

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)	Penticton iP 04 07 14 d	
	Resolute eP 04 06 29 d	
	Scarborough eP 04 09 49	
MAY 27 Edmonton e 00 58 28	Schefferville eP 04 09 14 d	
	Shawinigan Falls eP 04 09 49	
	Victoria iP 04 07 03 d	MAY 27 Resolute e(P) 21 38 (34)
MAY 27 Edmonton eP 01 55 46 d		
Mould Bay eP 01 55 50.5 d	MAY 27 Schefferville eP 04 38 (06)	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
Resolute e 02 01 (25)		
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	

DOMINION OBSERVATORIES

Yellowknife iP 04 54 47 c	Mould Bay eP 08 46 52 c	Resolute P ₁ 17 09 45 S ₁ 17 09 50.5 D = 44.8 km
MAY 29 Alert eP 06 00 05	Resolute eP 08 46 53 c	MAY 29 U.S.C.G.S. 22.6S, 114.4W
Edmonton eP 05 59 46 c	Schefferville eP 08 47 (43)	Easter Island Region H = 18 27 19.1 h = about 33 km Mag 4.7 (CGS)
Mould Bay eP 06 00 10 i 06 00 17	Yellowknife iP 08 48 03	Edmonton eP 18 39 (01)
Resolute eP 05 59 59 c	MAY 29 U.S.C.G.S. 18.0S, 178.0W	MAY 29 U.S.C.G.S. 14.7N, 92.1W
MAY 29 U.S.C.G.S. 17.7S, 178.8W	Fiji Islands H = 10 59 10.5 h = about 550 km Mag 4.8 (CGS)	Mexico-Guatemala Border Region H = 22 41 34 h = about 33 km Mag 4.4 (CGS)
Fiji Islands H = 08 27 44.5 h = about 512 km Mag 4.5 (CGS)	Edmonton eP 11 11 11	Mould Bay eP 22 51 58 i 22 52 35
Edmonton eP 08 39 49 c	Penticton eP 11 10 46	Penticton eP 22 49 08
Mould Bay eP 08 40 33.5	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	MAY 30 Edmonton eP 00 47 34 Penticton eP 00 46 44
MAY 29 U.S.C.G.S. 27.2N, 59.3E	Alert P _n 17 11 51 S _n 17 13 33 D = 1050 km	
Southern Iran H = 08 35 02.9 h = about 33 km Mag 5.4 (CGS)	Mould Bay P _n 17 11 10 S _n 17 12 23 L _g 17 12 59 D = 715 km	
Alert iP 08 45 55		
Coppermine eP 08 47 36		
Edmonton eP 08 48 46 (d)		

SEISMOLOGICAL BULLETIN - 1963

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.

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

Mould Bay

eP 08 29 03

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

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

Edmonton

e 11 47 31

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

Mould Bay

eP 15 46 40

MAY 31

Mould Bay

eP 17 26 05

Resolute

eP 17 26 (42)

MAY 31

Yellowknife

iP 20 02 17

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

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

SEISMOLOGICAL BULLETIN - 1963

Penticton eP 24 10 57	Yellowknife iP 11 02 05 c	Yellowknife P _n 13 57 51
Victoria eP 24 10 41		i 13 58 25
		S _n 13 59 18
		L _g 14 00 08
		D = 890 km
JUNE 1	JUNE 1	JUNE 1
U.S.C.G.S.	U.S.C.G.S.	Resolute
46.7N, 152.4E	15.0S, 172.4W	eP 14 07 (25)
Kurile Islands	Tonga Islands	
H = 02 07 38.2	H = 12 30 55.8	
h = about 33 km	h = about 33 km	
Edmonton	Edmonton	
eP 02 17 20 c	eP 12 43 28 c	
Mould Bay	Mould Bay	
eP 02 15 53	eP 12 44 23	JUNE 1
Resolute	Penticton	Mould Bay
eP 02 16 (39)	eP 12 42 59	e(P) 18 33 47
	Yellowknife	
	eP 12 43 51 (c)	
JUNE 1	JUNE 1	JUNE 1
U.S.C.G.S.	54.5°N ± 30',	U.S.C.G.S.
36.4N, 71.5E	117.8°W ± 30'	14.9N, 119.7E
Hindu Kush	About 110 miles south	Off west coast of
H = 10 49 54.8	of Peace River, Alta.	Luzon, Philippine
h = about 70 km	H = 13 55 55.6	Islands
Mag 5.3 (CGS)	Mag 4.1	H = 20 08 34.4
Alert	Coppermine	h = about 33 km
eP 10 59 51 c	e 13 59 22	Mag 4.8 (CGS)
Coppermine	S _n 14 01 24	Mould Bay
iP 11 01 34 c	L _g 14 02 52	eP 20 20 54
Edmonton	D = 1475 km	Resolute
eP 11 02 50 c	Edmonton	eP 20 21 22 c
Mould Bay	P _n 13 56 37.8	
eP 11 00 44 c	i 13 56 59.3	JUNE 1
i 11 01 13	S _n 13 57 06.9	U.S.C.G.S.
Penticton	D = 300 km	39.0N, 15.0E
iP 11 03 07 d	Penticton	Mediterranean
Resolute	e 13 57 19	Sea
eP 11 00 53 c	P ₁ 13 57 28.5	H = 20 36 09.5
Schefferville	S _n 13 58 09	h = about 285 km
eP 11 02 10	L _g 13 58 37	Mag 4.4 (CGS)
	D = 570 km	Edmonton
		eP 20 47 37 d

DOMINION OBSERVATORIES

Mould Bay eP 20 45 58 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)	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)
Resolute eP 20 45 32 d	Edmonton eP 01 23 (37)	Edmonton eP 10 13 23
JUNE 1 U.S.C.G.S. 15.2S, 173.5W	Mould Bay eP 01 26 21 d i 01 26 58.5	Mould Bay eP 10 13 17
Samoa Islands Region H = 21 13 52.7 h = about 33 km Mag 5.5 (CGS)	Resolute eP 01 26 (00)	Penticton eP 10 12 56
Coppermine eP 21 27 03	Yellowknife eP 01 24 46	Yellowknife eP 10 13 24
Edmonton eP 21 26 27 (d)	JUNE 2 H = 03 09 35 Mag 1.5	JUNE 2 Mould Bay eP 10 32 11
Mould Bay eP 21 27 21	Penticton eP ₁ 03 09 54.6 eS ₁ 03 10 09.7 D = 124 km	JUNE 2 Mould Bay eP 13 11 21 i 13 14 28
Penticton iP 21 26 00 c	JUNE 2 U.S.C.G.S. 27.8N, 95.6E	JUNE 2 Canadian Arctic H = 16 10 30.6 Mag 2.8
Resolute eP 21 27 (42)	Assam, India H = 07 07 57.9 h = about 143 km Mag 4.9 (CGS)	Resolute P ₁ 16 10 49 S ₁ 16 11 03 D = 115 km
Victoria eP 21 25 45	Mould Bay eP 07 19 23	
JUNE 1 U.S.C.G.S. 28.3N, 139.1E	JUNE 2 U.S.C.G.S. 27.8N, 95.6E	
South of Honshu, Japan H = 22 17 54.3 h = about 524 km Mag 4.4 (CGS)	Assam, India H = 07 07 57.9 h = about 143 km Mag 4.9 (CGS)	
Mould Bay iP 22 27 46 c i 22 30 56	Mould Bay eP 07 19 23	
Resolute eP 22 28 23 d	JUNE 2 Mould Bay eP 09 24 37	

SEISMOLOGICAL BULLETIN - 1963

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

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

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)

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

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)

JUNE 3

Mould Bay
eP 09 46 15

Sept Iles
eP 11 40 (05)
Shawinigan Falls
eP 11 39 37 (c)
Victoria
eP 11 41 55
Yellowknife
iP 11 42 26

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)

JUNE 3

U.S.C.G.S.
2.8N, 72.7W
Colombia
H = 12 18 26
h = about 33 km

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

Resolute
eP 09 54 31 (c)

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)

Mould Bay
eP 12 30 21 d

Alert
eP 11 43 43 c

SEISMOLOGICAL BULLETIN - 1963

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

JUNE 3

Mould Bay
eP 19 55 20.5 (c)
Resolute
eP 19 54 50 (c)
Yellowknife
eP 19 53 36

JUNE 3

Yellowknife
e(P) 20 36 40

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)

JUNE 4

Mould Bay
eP 02 28 01

JUNE 4

Mould Bay
eP 04 02 01 d

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

JUNE 4

Mould Bay
eP 10 00 (12)
Resolute
e(P) 10 01 (29)
Yellowknife
eP 10 01 13

JUNE 4

Mould Bay
eP 10 19 55.5 d

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)

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

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)

DOMINION OBSERVATORIES

JUNE 4

Mould Bay
eP 14 28 (05)
i 14 30 (53)
Resolute
eP 14 28 (29)
Yellowknife
eP 14 28 (40)

JUNE 4

U.S.C.G.S.
38.1N, 121.0E
Yellow Sea
Region
H = 16 04 10
h = about 33 km
Mould Bay
eP 16 14 13
Resolute
eP 16 14 48 (c)

JUNE 4

U.S.C.G.S.
18.9N, 146.2E
Mariana Islands
H = 19 21 56.6
h = about 110 km
Mag 5.5 (CGS)
Alert
iP 19 33 45 d
Coppermine
iP 19 33 32 d
Mould Bay
iP 19 33 15 d
Penticton
iP 19 33 48 d
Resolute
iP 19 33 51 c
Yellowknife
iP 19 33 42 d

JUNE 4

U.S.C.G.S.
19.2N, 97.0W
Vera Cruz,
Mexico
H = 20 29 02.5
h = about 152 km
Mag 4.2 (CGS)
Mould Bay
eP 20 38 41

JUNE 4

U.S.C.G.S.
1.2S, 127.3E
Halmahera
Region
H = 21 04 42.3
h = about 31 km
Mag 5.2 (CGS)
London
eP' 21 23 54 d
Mould Bay
eP 21 18 10
Resolute
eP 21 18 (36)
Schefferville
eP' 21 23 43
Seven Falls
eP' 21 23 (52)
e 21 27 15
Yellowknife
eP 21 18 43

JUNE 4

Penticton
eP 21 45 40

JUNE 4

U.S.C.G.S.
39.0N, 20.6E
Greece
H = 22 11 31.8
h = about 33 km
Mag 4.7 (CGS)
Mould Bay
eP 22 21 52 c
Ottawa
eP 22 22 27
Resolute
eP 22 21 (30)
Schefferville
eP 22 21 22

JUNE 4

Mould Bay
eP 23 52 (21)
Resolute
eP 23 52 (04)
Yellowknife
eP 23 52 19

JUNE 4

U.S.C.G.S.
33.1S, 76.7E
Indian Ocean
H = 23 55 30.7
h = about 33 km
Schefferville
eP' 24 14 52
Yellowknife
eP' 24 14 (56)

JUNE 5

Yellowknife
eP 00 46 30

SEISMOLOGICAL BULLETIN - 1963

JUNE 5

66.5°N ± 18',
110.0°W ± 1.0°
About 60 miles
west of Bathurst
Inlet, N.W.T.

or

66.5°N ± 18'
120.0°W ± 1.0°

On the north
shore of Great
Bear Lake,
N.W.T.

H = 01 31 37
h = about 28 km
Mag 3.1

Coppermine

P_n 01 32 20
P₁ 01 32 28
S_n 01 32 55
S₁ 01 33 07.5
D = 325 km

Yellowknife

P_n 01 33 01
S_n 01 34 03
L_g 01 34 34
D = 625 km

JUNE 5

H = 04 45 12
Mag 2.2

Penticton

eP_n 04 45 48
D = 240 km

Victoria

iP₁ 04 45 24.6
iS₁ 04 45 34.2
D = 78 km

JUNE 5

U.S.C.G.S.
34.6S, 81.5E
Indian Ocean
H = 05 32 09.2
h = about 33 km
Coppermine
eP' 05 51 34
Yellowknife
eP' 05 51 47

JUNE 5

U.S.C.G.S.
31.2N, 142.6E
Southeast of
Honshu, Japan
H = 09 11 49.9
h = about 33 km
Mag 4.8 (CGS)

Alert

eP 09 22 34 d

Coppermine

eP 09 22 33

Mould Bay

eP 09 22 07 d

Penticton

iP 09 23 10 c

Resolute

eP 09 22 46 (d)

Yellowknife

iP 09 22 49 d

JUNE 5

U.S.C.G.S.
14.9S, 166.8E
New Hebrides
Islands
H = 10 12 09.0
h = about 37 km
Mag 5.0 (CGS)

Mould Bay

eP 10 25 55

Penticton

iP 10 25 09

Resolute

eP' 10 30 (29)

Yellowknife

iP 10 25 40 c

JUNE 5

U.S.C.G.S.
3.6S, 149.6E
Bismark Sea
H = 11 20 07.3
h = about 33 km
Mag 5.1 (CGS)

Yellowknife

eP 11 33 33

JUNE 5

H = 15 53 09
Mag 2.3

Penticton

eP₁ 15 53 41.4

eS₁ 15 54 07.6

D = 214 km

JUNE 6

Yellowknife

eP 00 40 58

JUNE 6

U.S.C.G.S.
19.9N, 120.2E
Off north coast
of Luzon, P.I.
H = 05 18 55.1
h = about 33 km
Mag 5.8 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Ottawa
 eP 19 38 (37)
 Penticton
 eP 19 38 32
 Resolute
 eP 19 41 21
 Schefferville
 eP 19 40 02
 Sept Iles
 eP 19 39 39
 Victoria
 eP 19 38 38
 Yellowknife
 iP 19 40 03

JUNE 7

Yellowknife
 eP 20 42 21

JUNE 7

U.S.C.G.S.
 8.8N, 102.5W
 Clipperton Island
 Region
 H = 21 28 48.5
 h = about 33 km
 Mag 4.6 (CGS)
 Edmonton
 eP 21 37 02 c
 Mould Bay
 eP 21 39 45.5
 Penticton
 eP 21 36 31
 Resolute
 eP 21 39 31
 Schefferville
 eP 21 38 12
 Yellowknife
 eP 21 38 11

JUNE 7

U.S.C.G.S.
 15.2S, 173.1W
 Samoa Islands
 Region
 H = 22 31 54.8
 h = about 33 km
 Mag 4.6 (CGS)
 Edmonton
 eP 22 44 29 (c)
 Mould Bay
 eP 22 45 21
 Penticton
 eP 22 44 01
 Yellowknife
 eP 22 44 52

JUNE 7

U.S.C.G.S.
 15.3S, 173.2W
 Samoa Islands
 Region
 H = 22 37 30.0
 h = about 33 km
 Mag 5.0 (CGS)
 Coppermine
 eP 22 50 41
 Edmonton
 eP 22 50 02
 Mould Bay
 eP 22 50 (56)
 Penticton
 eP 22 49 21
 Victoria
 eP 22 49 27
 Yellowknife
 eP 22 50 28

JUNE 8

Coppermine
 eP 00 30 (45)

Edmonton

eP 00 31 28 d
 Mould Bay
 eP 00 31 11
 Resolute
 eP 00 32 02
 Yellowknife
 iP 00 30 44 d

JUNE 8

U.S.C.G.S.
 15.1S, 173.0W
 Samoa Islands
 Region
 H = 01 01 51.9
 h = about 33 km
 Mag 4.6 (CGS)
 Edmonton
 eP 01 14 25
 Penticton
 eP 01 13 58
 Yellowknife
 eP 01 14 49

JUNE 8

Mould Bay
 eP 01 30 11

JUNE 8

U.S.C.G.S.
 5.5S, 147.0E
 Near north coast
 of New Guinea
 H = 05 34 06.8
 h = about 170 km
 Mag 5.1 (CGS)
 Mould Bay
 eP 05 47 14
 Penticton
 iP 05 47 18 d

DOMINION OBSERVATORIES

Yellowknife eP 05 47 28	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 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 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 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 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 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 Edmonton eP 09 18 (24) Mould Bay eP 09 17 07 Yellowknife eP 09 17 37

SEISMOLOGICAL BULLETIN - 1963

JUNE 9	Schefferville	Scarborough
Alert	eP 20 46 29	eP' 04 36 22
P 10 55 13	Seven Falls	Schefferville
	eP 20 45 (54)	eP' 04 36 (38)
JUNE 9	Yellowknife	Seven Falls
U.S.C.G.S.	eP 20 49 15	eP' 04 36 28
15.3S, 172.9W		Yellowknife
Samoa Islands	JUNE 9	eP' 04 35 56
Region	Edmonton	
H = 15 50 31.8	eP 23 51 19 (c)	JUNE 10
h = about 33 km		U.S.C.G.S.
Mag 4.5 (CGS)		55.2S, 146.3E
Edmonton	JUNE 10	800 km west of
eP 16 03 05	Mould Bay	Macquarie Islands
	iP 04 24 31 (c)	H = 05 14 15.6
JUNE 9		h = about 33 km
Mould Bay	JUNE 10	Edmonton
eP 17 31 19	U.S.C.G.S.	eP' 05 33 (22)
	55.4S, 146.4E	Mould Bay
JUNE 9	800 km west of	eP' 05 33 43 (c)
U.S.C.G.S.	Macquarie Islands	Ottawa
10.7N, 41.9W	H = 04 16 37.7	eP' 05 34 05
Mid-Atlantic	h = about 33 km	Resolute
Ocean	Mag 6 1/4 (PAS)	eP' 05 34 00
H = 20 37 51.6	5 3/4 - 6	Yellowknife
h = about 33 km	(PAL)	eP' 05 33 34
Mag 5.0 (CGS)	6.1 (CGS)	
Banff	Coppermine	JUNE 10
eP 20 49 14	eP' 04 36 02	U.S.C.G.S.
Coppermine	Edmonton	55.3S, 146.1E
eP 20 49 23	eP' 04 35 (44)	800 km west of
Mould Bay	London	Macquarie Islands
eP 20 49 41	iP' 04 36 15 c	H = 06 39 04.0
Ottawa	Mould Bay	h = about 18 km
eP 20 46 06	eP' 04 36 06 d	Mag 6 1/4 - 6 1/2
Penticton	Ottawa	(PAS)
eP 20 49 24	eP' 04 36 21	6 1/4 - 6 1/2
Resolute	Penticton	(PAL)
eP 20 49 (07)	eP' 04 35 (44)	6.0 (CGS)
	Resolute	Coppermine
	eP' 04 36 18	eP' 06 58 29

DOMINION OBSERVATORIES

Edmonton		Resolute		Banff	
eP'	06 58 (16)	eP	08 01 58	eP	12 33 00
Halifax		Yellowknife		Edmonton	
iP'	06 59 00	eP	08 01 19	eP	12 33 08 c
London		i	08 03 50	Mould Bay	
iP'	06 58 43			eP	12 32 55
Mould Bay				Penticton	
eP'	06 58 34 c	JUNE 10		eP	12 32 49
Ottawa		U.S.C.G.S.			
eP'	06 58 49	50.9N, 160.2E		JUNE 10	
Penticton		Off coast of		48.0°N, 122.8°W	
eP'	06 58 11	Kamchatka		H = 16 19 52	
Resolute		H = 10 46 58.1		Puget Sound, USA	
eP'	06 58 45 d	h = about 33 km		Mag 2.8	
Scarboro		Mag 5.3 (CGS)		Alberni	
eP'	06 58 45	Banff		eP _n	16 20 23.5
Schefferville		eP	10 55 52	D = 205 km	
eP'	06 59 02	Coppermine		Penticton	
Seven Falls		iP	10 54 50 d	eP _n	16 20 33
eP'	06 58 55	Edmonton		D = 283 km	
Victoria		iP	10 55 52 d	Port Hardy	
eP'	06 58 08	Mould Bay		eP _n	16 20 51.8
Yellowknife		eP	10 54 24 d	D = 437 km	
iP'	06 58 23 c	Penticton		Victoria	
		iP	10 55 44 d	iP ₁	16 20 05.0
JUNE 10		Resolute		iS ₁	16 20 15.1
U.S.C.G.S.		eP	10 55 15 d	D = 83 km	
51.5N, 178.5W		Schefferville			
Andreanof Islands		eP	10 57 53 d		
Region, Aleutian		Victoria		JUNE 10	
Islands		eP	10 55 31	Mould Bay	
H = 07 54 28.2		Yellowknife		eP	19 01 30
h = about 33 km		iP	10 55 11	i	19 02 16
Mag 4.7 (CGS)					
Edmonton		JUNE 10		JUNE 10	
eP	08 01 49 c	U.S.C.G.S.		Yellowknife	
Mould Bay		4.6S, 152.0E		iP	20 50 06
iP	08 01 06 c	New Britain			
i	08 03 45	H = 12 19 56.1			
Penticton		h = about 174 km			
iP	08 01 34	Mag 5.2 (CGS)			

SEISMOLOGICAL BULLETIN - 1963

JUNE 10	Coppermine	Alert
U.S.C.G.S.	eP 03 37 22	P 13 14 21
4.5S, 152.8E	Edmonton	Banff
New Britain	eP 03 38 39 c	eP 13 13 30
H = 23 58 44.3	Mould Bay	Coppermine
h = about 69 km	eP 03 36 30	eP 13 12 06
Mag 5.2 (CGS)	Penticton	i 13 16 52
Coppermine	iP 03 38.56 d	Edmonton
eP 24 12 00	Resolute	iP 13 13 25 c
Edmonton	eP 03 36 38	Mould Bay
eP 24 12 05 c	Yellowknife	eP 13 12 25
Mould Bay	iP 03 37 59	S 13 15 (35)
eP 24 11 54 (c)		Penticton
Ottawa		iP 13 13 26 c
eP' 24 17 31	JUNE 11	Resolute
Penticton	U.S.C.G.S.	eP 13 13 26 (d)
eP 24 11 46	59.8N, 153.0W	Seven Falls
Seven Falls	Cook Inlet,	eP 13 16 47
eP' 24 17 34	Alaska	Victoria
	H = 04 15 49.4	eP 13 13 17
	h = about 50 km	Yellowknife
	Mag 4.7 (CGS)	iP 13 12 14
JUNE 11	Coppermine	
Penticton	eP 04 20 00	JUNE 11
eP 00 00 20	Edmonton	Edmonton
	eP 04 20 47 d	iP 13 23 52 d
JUNE 11	Mould Bay	Penticton
Coppermine	eP 04 20 21	iP 13 23 54
eP 03 32 57	Penticton	
	eP 04 20 35	
	Resolute	JUNE 11
JUNE 11	eP 04 21 13	U.S.C.G.S.
U.S.C.G.S.	Yellowknife	31.8N, 116.2W
37.1N, 70.3E	iP 04 20 04	Baja California
Hindu Kush		H = 15 23 42.3
H = 03 25 40.7	JUNE 11	h = about 33 km
h = about 38 km	U.S.C.G.S.	Mag 5 (PAS)
Mag 4.3 (CGS)	63.1N, 151.4W	5.2 (CGS)
Alert	Central Alaska	Edmonton
eP 03 35 35	H = 13 08 31.4	eP 15 28 30 d
Banff	h = about 31 km	Mould Bay
eP 03 38 50		iP 15 31 55 d

DOMINION OBSERVATORIES

Penticton iP 15 27 50 c	Penticton eP 18 44 22	Penticton eP _n 05 15 49
Resolute eP 15 31 51 (d)	Schefferville eP 18 43 28 d	D = 285 km
Seven Falls eP 15 30 (58)		Port Hardy eP _n 05 16 04.3
Victoria eP 15 27 48	JUNE 12 Mould Bay eP 01 49 50	Victoria iP ₁ 05 15 11.5 iS ₁ 05 15 14.7 D = 20 km
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	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)	JUNE 12 Mould Bay eP 12 01 13 (c)
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	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	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) Mould Bay iP' 15 31 27 d Resolute eP' 15 31 (18)
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	JUNE 12 48°40'N, 123°16'W East of Sidney, Felt H = 05 15 07 Mag 2.5 Alberni iP ₁ 05 15 29.7 D = 135 km	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

SEISMOLOGICAL BULLETIN - 1963

JUNE 13	Resolute	Mould Bay
U.S.C.G.S.	eP' 10 53 (02)	P _n 22 24 22.5
15.2S, 173.3W		S _n 22 26 25.2
Samoa Islands		D = 1250 km
H = 05 14 26.6	JUNE 13	Resolute
h = about 33 km	U.S.C.G.S.	P _n 22 25 21
Mag 4.9 (CGS)	33.3S, 71.3W	S _n 22 28 05
Edmonton	Near coast of	eLg 22 29 48
eP 05 27 01 c	Central Chile	D = 1700 km
	H = 16 59 10.9	Yellowknife
	h = about 94 km	P _n 22 24 01.5
JUNE 13	Schefferville	S _n 22 25 43
U.S.C.G.S.	eP 17 11 51	D = 1050 km
38.7N, 14.8E		
Off northern	JUNE 13	JUNE 13
coast of Sicily	U.S.C.G.S.	Edmonton
H = 08 37 39.7	4.6S, 153.2E	e 22 44 22
h = about 33 km	New Britain	
Mag 4.4 (CGS)	H = 17 26 41.1	JUNE 14
Edmonton	h = about 54 km	Resolute
eP 08 49 36 c	Mag 5.0 (CGS)	e(P) 00 46 (01)
Halifax	Mould Bay	
eP 08 47 22	eP 17 39 53	
Mould Bay	Yellowknife	JUNE 14
eP 08 47 55.5	eP 17 40 00	U.S.C.G.S.
Resolute		15.0N, 93.1W
eP 08 47 (31)	JUNE 13	Near coast of
Seven Falls	66.0°N ± 0.2°,	Chiapas, Mexico
eP 08 47 45	135.0°W ± 0.7°	H = 07 18 50.8
	About 20 miles	h = about 33 km
JUNE 13	north of	Mag 3.7 (CGS)
U.S.C.G.S.	Whitehorse, Y.T.	Mould Bay
6.1S, 130.1E	H = 22 21 46.1	eP 07 29 15 (c)
Banda Sea	Mag 4.6	i 07 30 33
H = 10 34 52.4	Coppermine	Yellowknife
h = about 150 km	P _n 22 23 39	eP 07 27 42
Mag 4.9 (CGS)	S _n 22 25 05	
Edmonton	Lg 22 25 53	
eP' 10 53 08 (d)	D = 875 km	
Mould Bay		
eP 10 48 24		

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.
 12.7N, 143.5E
 Mariana Islands
 H = 08 06 37.4
 h = about 27 km
 Mag 4.5 (CGS)
 Edmonton
 eP 08 19 25 (d)
 Mould Bay
 eP 08 18 43
 Resolute
 eP 08 19 (16)
 Yellowknife
 iP 08 19 08 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	JUNE 15 U.S.C.G.S. 51.0N, 179.9E	JUNE 15 U.S.C.G.S. 55.7S, 28.5W
Mould Bay eP 02 26 12 (c)	Rat Islands, Aleutian Islands	Sandwich Islands H = 21 47 12.1
i 02 26 16	H = 12 52 03.0	h = about 33 km
Resolute eP 02 27 (00)	h = about 33 km	Mould Bay eP' 22 06 38
Yellowknife eP 02 26 08	Mag 4.2 (CGS).	Resolute eP' 22 06 30
	Mould Bay eP 12 58 48	
	i 13 01 25	
JUNE 15 U.S.C.G.S. 15.0S, 177.8W	JUNE 15 U.S.C.G.S. 45.0N, 110.8W	JUNE 16 U.S.C.G.S. 44.3N, 135.5E
Fiji Islands Region H = 05 01 52.0	Yellowstone National Park, Wyoming	Sea of Japan Region H = 02 53 24
h = about 350 km	H = 13 15 52.6	h = about 438 km
Mag 4.6 (CGS)	h = about 33 km	Mag 4.0 (CGS)
Penticton eP 05 13 34	Mag 4.1 (CGS)	Mould Bay iP 03 01 44
JUNE 15 Mould Bay eP 10 47 18	Edmonton eP 13 18 (06)	Resolute eP 03 02 25 c
Resolute eP 10 47 (53)	Penticton eP 13 17 52	Yellowknife eP 03 02 45
JUNE 15 Canadian Arctic H = 11 43 27.9	JUNE 15 Edmonton eP 15 43 (34)	JUNE 16 U.S.C.G.S. 42.7N, 142.0E
Mag 1.5	Mould Bay eP' 15 49 (11)	Hokkaido, Japan H = 04 43 49.0
Resolute eP ₁ 11 43 47	Penticton eP 15 43 20	h = about 80 km
i 11 43 52	Yellowknife eP 15 44 19	Mag 4.0 (CGS)
S ₁ 11 44 11.5		Edmonton eP 04 54 19
D = 119 km		Resolute eP 04 53 28 c
	JUNE 15 Edmonton eP 21 28 (13)	

DOMINION OBSERVATORIES

Penticton iP' 23 20 56 c	Schefferville eP 04 15 53	JUNE 18 U.S.C.G.S. 12.6N, 124.2E
Resolute eP 23 16 (25)	Victoria eP 04 14 32	Southern Luzon, P.I.
Schefferville eP' 23 21 (07)	Yellowknife iP 04 14 14 c	H = 23 14 23.9 h = about 16 km Mag 4.6 (CGS)
Victoria eP' 23 20 52		Mould Bay eP 23 26 54
JUNE 18 Mould Bay eP 02 26 56	JUNE 18 U.S.C.G.S. 36.3N, 70.7E	Resolute eP 23 27 22
Resolute eP 02 27 38 (c)	Hindu Kush H = 08 37 58.4 h = about 223 km Mag 4.4 (CGS)	JUNE 19 U.S.C.G.S. 63.4N, 151.3W
JUNE 18 Coppermine eP 04 05 17	Mould Bay eP 08 48 32	Alaska H = 05 43 49.4 h = about 60 km Mag 4.1 (CGS)
Mould Bay eP 04 05 03	i 08 49 21	Edmonton eP 05 48 40 c
JUNE 18 U.S.C.G.S. 29.0N, 129.9E	JUNE 18 U.S.C.G.S. 5.3S, 78.5W	JUNE 19 U.S.C.G.S. 4.7N, 126.5E
Ryukyu Islands H = 04 02 31.0 h = about 33 km Mag 5.5 (CGS)	Northern Peru H = 15 39 55 h = about 33 km Mag 4.4 (CGS)	Talau Islands Region H = 09 09 04.0 h = about 83 km Mag 5 1/4 - 5 1/2 (PAL)
Alert eP 04 13 33 c	Mould Bay eP 17 04 31	6.2 (CGS)
Coppermine iP 04 13 53 c	Resolute e(P) 17 03 (53)	Alert eP 09 22 09
Edmonton eP 04 14 46 c	JUNE 18	Coppermine eP 09 22 23
Mould Bay iP 04 13 21 c		Edmonton eP 09 23 03 (c)
Penticton iP 04 14 41 c		Halifax eP' 09 28 09
Resolute iP 04 13 57 c		

DOMINION OBSERVATORIES

JUNE 16	Mould Bay	Mould Bay
U.S.C.G.S.	eP 09 25 24 d	eP 17 33 45
16.6N, 100.3W	Penticton	Yellowknife
Near coast of	eP _n 09 21 31	eP 17 34 05
Guerrero, Mexico	D = 733 km	
H = 06 27 15	Port Hardy	
h = about 33 km	eP ₁ 09 20 18.4	JUNE 16
Mag 4.2 (CGS)	D = 148 km	U.S.C.G.S.
Coppermine	Resolute	15.2N, 61.4W
eP 06 36 25 c	eP 09 25 42 c	Windward Islands
Edmonton	Victoria	H = 18 09 13.2
eP 06 34 32 c	iP _n 09 21 03 c	h = about 157 km
Mould Bay	D = 502 km	Mag 4.0 (CGS)
eP 06 37 24 c	Yellowknife	Mould Bay
Ottawa	eP 09 23 14 d	eP 18 19 57
eP 06 34 10		
Penticton		
eP 06 34 18	JUNE 16	JUNE 16
Yellowknife	Yellowknife	Mould Bay
iP 06 35 44	eP 12 31 20	eP 20 11 15
JUNE 16	JUNE 16	JUNE 17
Mould Bay	U.S.C.G.S.	Edmonton
eP 06 59 42	4.5S, 153.0E	e 02 12 27
	New Ireland	
	H = 13 49 00.1	
	h = about 72 km	
	Mag 5.7 (CGS)	JUNE 17
JUNE 16	Mould Bay	Mould Bay
50°30'N, 129°30'W	eP 14 02 10	eP 09 02 15
West of Vancouver	Yellowknife	
Island	eP 14 02 (17)	
H = 09 19 55		
Mag 4.3		
Alberni	JUNE 16	JUNE 17
iP _n 09 20 45.3	U.S.C.G.S.	U.S.C.G.S.
D = 360 km	52.2N, 179.2E	44.0N, 85.3E
Banff	Rat Islands,	Sinkiang Province,
eP 09 22 05	Aleutian Islands	China
Coppermine	H = 17 27 19.4	H = 10 17 15.0
eP 09 24 09 (d)	h = about 139 km	h = about 33 km
Edmonton	Mag 4.0 (CGS)	Mould Bay
eP 09 22 24 c		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 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 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 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 Edmonton eP 14 48 17 d Mould Bay eP 14 47 44	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 Mould Bay eP 22 20 13
JUNE 17 Edmonton eP 14 57 30	JUNE 17 Mould Bay eP 22 37 27	JUNE 17 Mould Bay eP 22 37 27
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 Sept Iles eP 19 21 15	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)

SEISMOLOGICAL BULLETIN - 1963

London		JUNE 19		Edmonton	
iP'	09 28 00 c	U.S.C.G.S.		eP	18 35 01 d
Mould Bay		9.3S, 158.8E		Mould Bay	
eP	09 22 02	Solomon Islands		eP	18 34 50
Ottawa		H = 11 58 55.0		Penticton	
eP'	09 27 59	h = about 33 km		iP	18 34 42 c
Penticton		Mag 5.5 (CGS)		Resolute	
eP	09 22 51	Edmonton		eP	18 35 20 (d)
Resolute		eP 12 12 19 c		Yellowknife	
eP	09 22 29	Yellowknife		iP	18 34 57 c
Schefferville		eP 12 12 22			
eP'	09 27 48 d				
Sept Iles				JUNE 19	
eP'	09 27 (56)	JUNE 19		Sept Iles	
Yellowknife		U.S.C.G.S.		eP	19 37 55
eP	09 22 39	63.2N, 146.3W			
		Alaska		JUNE 19	
JUNE 19		H = 17 46 01.7		Edmonton	
U.S.C.G.S.		h = about 33 km		eP	22 00 25
25.0N, 92.1E		Mag 4.4 (CGS)			
Assam, India		Coppermine		JUNE 19	
H = 10 47 24.7		iP 17 49 19 c		U.S.C.G.S.	
h = about 51 km		Edmonton		31.5N, 140.3E	
Mag 5.7 (CGS)		eP 17 50 33 (c)		South of Honshu,	
Alert		Mould Bay		Japan	
eP	10 58 45	eP 17 49 47		H = 23 01 51.5	
Coppermine		Penticton		h = about 38 km	
iP	10 59 57	eP 17 50 28		Mag 5 1/2 (BKS)	
Edmonton		Resolute		5 1/4 (PAL)	
eP	11 01 02 d	eP 17 50 45		5.0 (CGS)	
Mould Bay		Yellowknife		Coppermine	
eP	10 59 14 c	iP 17 49 33 (c)		eP	23 12 38
Resolute				Edmonton	
eP	10 59 33 c	JUNE 19		eP	23 13 (28)
Yellowknife		U.S.C.G.S.		Mould Bay	
iP	11 00 22 d	3.5S, 153.4E		eP	23 12 09
		New Ireland		Penticton	
		Region		eP	23 13 17
		H = 18 22 09.6		Resolute	
		h = about 279 km		eP	23 12 48 c
		Mag 5.1 (CGS)			

DOMINION OBSERVATORIES

Victoria eP 23 13 09	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)	Yellowknife iP 20 31 50 d
Yellowknife iP 23 12 54		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. 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 Penticton eP 16 15 06	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. 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. 35.8N, 3.6W Western Mediter- anean 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	

SEISMOLOGICAL BULLETIN - 1963

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 23 Port Hardy iP ₁ 07 09 11.6 iS ₁ 07 09 36.5 D = 204 km	JUNE 23 Port Hardy iP ₁ 13 09 16.5 iS ₁ 13 09 38.7 D = 181 km
JUNE 22 Alert eP 18 38 43 d	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 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 iP ₁ 13 12 07.3 D = 188 km Victoria eP _n 13 12 53.6 D = 568 km
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 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 Alert eP 17 39 44
JUNE 23 Alert eP 04 08 23 d Mould Bay eP 04 08 01 Resolute eP 04 08 11 (d)	JUNE 23 Port Hardy iP ₁ 12 42 47.0 iS ₁ 12 43 10.5 D = 192 km	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

SEISMOLOGICAL BULLETIN - 1963

JUNE 24	JUNE 24	JUNE 24
U.S.C.G.S.	Mould Bay	Edmonton
59.5N, 151.7W	i(P) 05 05 (25)	eP 06 23 (59)
Cook Inlet	1 05 08 (23)	Mould Bay
H = 04 26 37.9		eP 06 23 48
h = about 52 km		
Mag 6 3/4 (PAS)	JUNE 24	
5.7 (CGS)	Edmonton	
Alert	e 05 15 54	JUNE 24
eP 04 32 56 d		Edmonton
Banff		eP 06 35 36
eP 04 31 28 c	JUNE 24	Mould Bay
Edmonton	U.S.C.G.S.	eP 06 35 19.5
iP 04 31 28 c	59.4N, 151.5W	Resolute
Halifax	Cook Inlet	eP 06 36 12 (d)
eP 04 35 45 c	Alaska	
London	H = 05 43 48.1	JUNE 24
iP 04 34 48 c	h = about 57 km	Mould Bay
Mould Bay	Mag 4.7 (CGS)	eP 08 17 58
eP 04 31 10 d	Banff	
iS 04 34 53	eP 05 48 37	
Ottawa	Edmonton	JUNE 24
eP 04 34 55	iP 05 48 36 d	51.0°N, 130°W
Penticton	Mould Bay	West of Vancouver
iP 04 31 20 c	eP 05 48 20	Island
Port Hardy	S 05 52 (15)	H = 10 17 24
eP 04 30 24	Penticton	Mag 4.1
Resolute	iP 05 48 28 d	Alberni
eP 04 32 02 (d)	Resolute	iP _n 10 18 22.3
Scarboro	eP 05 49 12 d	D = 426 km
iP 04 34 53 c		Banff
Schefferville	JUNE 24	eP 10 19 28.4
eP 04 34 37 d	Edmonton	Edmonton
Sept Iles	e 05 59 38	eP 10 19 (40)
eP 04 35 01		Mould Bay
Seven Falls	JUNE 24	eP 10 22 15
eP 04 35 04 (d)	Mould Bay	Penticton
Victoria	eP 06 13 (00)	eP _n 10 19 07
eP 04 31 05	Resolute	D = 790 km
	eP 06 13 53	

DOMINION OBSERVATORIES

Port Hardy		
iP ₁	10 17 49.7	
iS ₁	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		
U.S.C.G.S.		
49°36'N, 127°05'W		
West of Vancouver		
Island		
H = 18 14 22		
Mag 3.2		
Alberni		
iP ₁	18 14 38.3	
iS ₁	18 14 57.0	
D = 169 km		
Penticton		
eP _n	18 15 26.0	
D = 548 km		
Port Hardy		
iP ₁	18 14 32.6	
iS ₁	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 27 Mould Bay eP 11 13 44
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		

SEISMOLOGICAL BULLETIN - 1963

JUNE 27	JUNE 27	Resolute	
U.S.C.G.S.	U.S.C.G.S.	eP	04 45 55
8.3S, 111.2E	48.0N, 152.9E		
Near coast of	Kurile Islands		
Java	Region	JUNE 28	
H = 11 46 57.9	H = 23 25 02.6	Edmonton	
h = about 180 km	h = about 109 km	eP	11 57 18 c
Edmonton	Mag 4.2 (CGS)	Resolute	
eP' 12 05 35	Resolute	e(P)	11 57 (51)
	eP 23 33 45		
JUNE 27	JUNE 28	JUNE 28	
U.S.C.G.S.	U.S.C.G.S.	Edmonton	
39.1N, 140.7E	27.5S, 66.1E	eP	13 29 (05)
Northern Honshu,	Indian Ocean	Mould Bay	
Japan	H = 02 28 51.6	eP	13 27 (05)
H = 15 08 09	h = about 33 km	i	13 29 (28)
h = about 114 km	Mag 6.0 (CGS)	Penticton	
Mag 4.0 (CGS)	Edmonton	eP	13 29 14
Resolute	eP' 02 48 (41)	Resolute	
eP 15 18 10	London	eP	13 28 (22)
	iP' 02 48 34		
	Mould Bay		
	eP' 02 48 (02)	JUNE 28	
JUNE 27	Ottawa	U.S.C.G.S.	
U.S.C.G.S.	eP' 02 48 24 d	1.3N, 97.4E	
14.4N, 93.7E	Penticton	Near coast of	
Andaman Islands	eP' 02 48 46	Sumatra	
Region	Resolute	H = 13 47 47.7	
H = 15 32 53.1	eP' 02 48 02	h = about 50 km	
h = about 33 km	Victoria	Mag 5.0 (CGS)	
Mag 5.2 (CGS)	eP' 02 48 46	Edmonton	
Alert		eP'	14 06 34
iP 15 45 15 c		Mould Bay	
Mould Bay		eP	14 01 28
eP 15 45 38 c			
i 15 48 49	JUNE 28		
Resolute	U.S.C.G.S.	JUNE 28	
eP 15 45 56	43.7N, 146.5E	Mould Bay	
	Kurile Islands	eP	14 43 52
	Region		
	H = 04 36 24.2		
	h = about 29 km		
	Mag 4.3 (CGS)		

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. 46.0N, 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	Edmonton eP 08 13 (08) Mould Bay eP 08 16 27.5 Resolute eP 08 16 39
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. 46.4N, 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. 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. 40.3N, 126.9W Off coast of northern California H = 08 09 27.6 h = about 33 km Mag 4.2 (CGS)	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	JUNE 29 U.S.C.G.S. 46.1N, 153.2E	Mould Bay eP 20 24 54
Resolute eP 13 17 06 c	Kurile Islands Region H = 14 20 56.3 h = about 33 km Mag 4.4 (CGS)	Resolute eP 20 25 42 c
JUNE 29 U.S.C.G.S. 46.4N, 153.7E	Mould Bay eP 14 29 10.5	JUNE 29 Edmonton eP 22 14 02 d
Kurile Islands Region H = 13 14 04.2 h = about 33 km Mag 4.7 (CGS)	Resolute eP 14 29 59 (c)	Mould Bay eP 22 12 55 c
Edmonton eP 13 23 43 (d)	JUNE 29 U.S.C.G.S. 46.3N, 153.4E	Resolute eP 22 13 33 d
Mould Bay eP 13 22 17	Kurile Islands Region H = 18 42 14.8 h = about 33 km Mag 4.9 (CGS)	JUNE 30 U.S.C.G.S. 46.5N, 153.4E
Resolute eP 13 23 (05)	Alert P 18 51 08	Kurile Islands Region H = 00 42 23.1 h = about 33 km Mag 4.5 (CGS)
JUNE 29 Mould Bay iP 13 26 56	Mould Bay eP 18 50 (34)	Alert eP 00 51 15 c
Resolute eP 13 27 (29)	Resolute eP 18 51 16 (d)	Edmonton eP 00 52 (02)
JUNE 29 Mould Bay eP 13 31 13	JUNE 29 U.S.C.G.S. 46.3N, 153.5E	Mould Bay eP 00 50 35 c
Resolute eP 13 31 46 d	Kurile Islands Region H = 20 16 40.6 h = about 33 km Mag 4.6 (CGS)	Resolute eP 00 51 23 c
	Alert eP 20 25 34 c	JUNE 30 U.S.C.G.S. 11.8N, 142.5E
	Edmonton eP 20 26 20 (d)	Mariana Islands Region H = 01 39 05.4 h = about 33 km Mag 4.6 (CGS)
		Alert eP 01 51 41

SEISMOLOGICAL BULLETIN - 1963

Edmonton eP 01 51 (59)	Resolute eP 04 32 01 (d)	JUNE 30 U.S.C.G.S. 47.1N, 152.4E
Mould Bay eP 01 51 15		Kurile Islands
Penticton eP 01 51 45	JUNE 30 U.S.C.G.S. 64.4N, 146.9W	Region H = 07 38 57.9 h = about 79 km Mag 4.1 (CGS)
Resolute eP 01 51 48 d	Central Alaska H = 05 18 09.7 h = about 27 km Mag 4.5 (CGS)	Edmonton eP 07 48 32 c
JUNE 30 Resolute e(P) 03 45 (27)	Edmonton eP 05 22 46 (c)	JUNE 30 U.S.C.G.S. 33.3N, 49.1E
JUNE 30 U.S.C.G.S. 36.5N, 70.5E	Mould Bay eP 05 21 38	Western Iran H = 07 41 08.2 h = about 40 km Mag 5.0 (CGS)
Hindu Kush H = 03 59 15.4 h = about 200 km Mag 4.4 (CGS)	Resolute eP 05 22 44	Edmonton eP 07 54 16
Mould Bay eP 04 09 50	Schefferville eP 05 25 37	Mould Bay eP 07 52 19 c
JUNE 30 U.S.C.G.S. 11.7N, 142.6E	JUNE 30 U.S.C.G.S. 2.5S, 102.4E	Resolute eP 07 52 16 c
Mariana Islands Region H = 04 19 17.0 h = about 33 km Mag 4.7 (CGS)	Sumatra H = 06 45 36.8 h = about 160 km Mag 5.5 (CGS)	Schefferville eP 07 52 (56)
Alert eP 04 31 53 c	Edmonton eP' 07 04 11 c	JUNE 30 U.S.C.G.S. 7.2S, 75.2W
Edmonton eP 04 32 11	Mould Bay eP 06 59 (15)	Central Peru H = 11 09 49.0 h = about 33 km Mag 4.3 (CGS)
Mould Bay eP 04 31 28 c	Penticton iP' 07 04 11	Mould Bay eP 11 22 35 c
Penticton iP 04 31 58	Resolute eP 06 59 39	

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. $81^{\circ}25'N \pm 18'$, $86^{\circ}20'W \pm 1.5^{\circ}$. 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. $73^{\circ}20'N \pm 18'$, $96^{\circ}50'W \pm 1.0^{\circ}$. M = 3.8. In Peel Sound, N.W.T.
- APRIL 16 21 24 34. $71.5^{\circ}N \pm 0.4^{\circ}$, $74.7^{\circ}W \pm 1.0^{\circ}$. 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. $67^{\circ}02'N \pm 17'$, $135^{\circ}00'W \pm 30'$. 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. $71^{\circ}24'N \pm 18'$, $86^{\circ}30'W \pm 40'$. 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.

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. $81^{\circ}30'N \pm 15'$, $86^{\circ}30'W \pm 1.0^{\circ}$. 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. $75^{\circ}05'N \pm 12'$, $93^{\circ}40'W \pm 50'$. 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. $66^{\circ}30'N \pm 18'$, $110.0^{\circ}W \pm 1.0^{\circ}$. About 60 miles west of Bathurst Inlet, N.W.T. or $66^{\circ}30'N \pm 18'$, $120.0^{\circ}W \pm 1.0^{\circ}$. On the north shore of Great Bear Lake, N.W.T. M = 3.1.
- JUNE 13 22 21 46. $66.0^{\circ}N \pm 0.2^{\circ}$, $135.0^{\circ}W \pm 0.7^{\circ}$. 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.

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 Romé, N.Y. Felt around Lyons Falls, N.Y.

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.

SEISMOLOGICAL BULLETIN - 1963

- 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.

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