

SEISMOLOGICAL BULLETIN - 1963

DOMINION OBSERVATORIES

JULY-DECEMBER 1963

NOTES

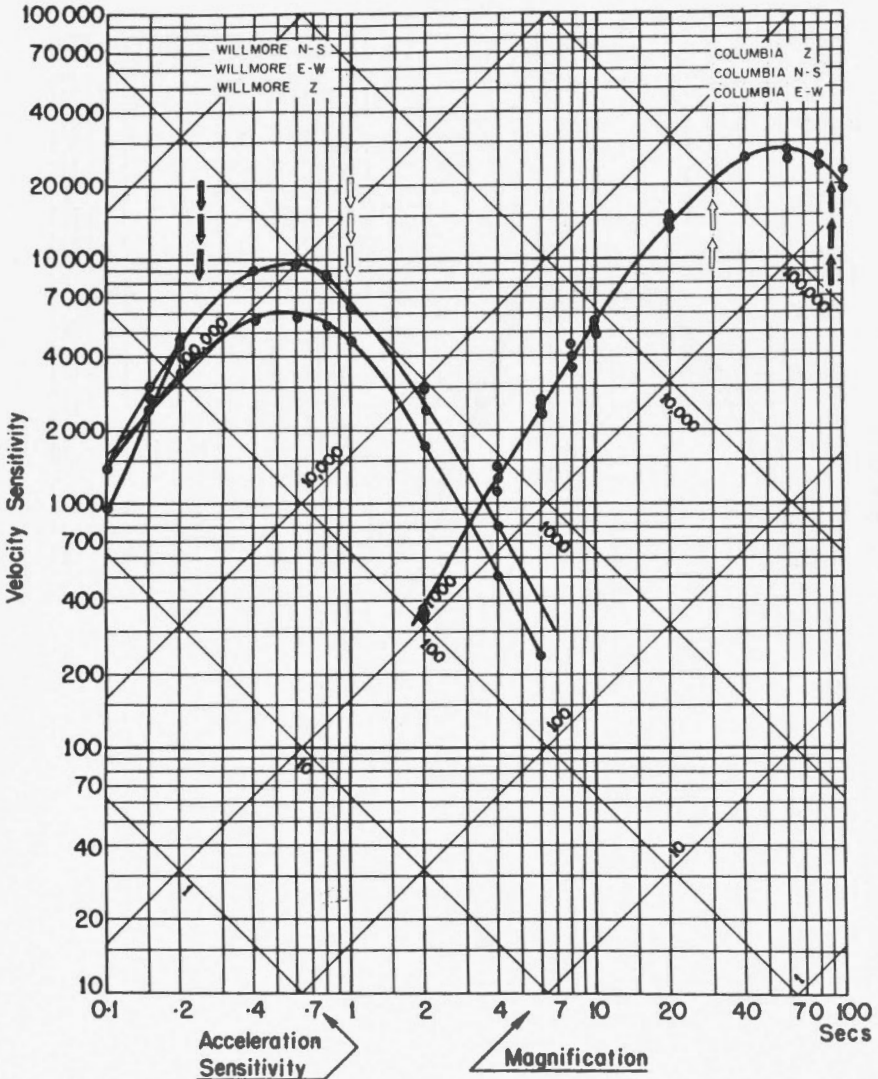
- | | | |
|----------------------|---------|---|
| Alert, N. W. T. | | Mr. C. H. McCloughan in charge. |
| Banff, Alta. | | Out of operation Sept. and most of Oct. Since polarity suspect, no first motions given in this bulletin. |
| Coppermine, N. W. T. | | Station closed for repairs June 20 to Nov. 5. |
| Edmonton, Alta. | | 6 component (equivalent) standard Canadian station installed in April.
Owned by the University of Alberta.
Operated under Contract for the Dominion Observatory by the University of Alberta. |
| | OCT. 25 | All L. P. 's lowered in sensitivity. |
| | NOV. 19 | S. P. N. S. and S. P. E. W. lowered in sensitivity. |
| Frobisher, N. W. T. | | 6 component standard Canadian station installed in August.
Owned by Dominion Observatory.
Operated for Dominion Observatory by Radiosonde Division, Meteorological Branch, Department of Transport. |
| London, Ont. | JULY 2 | Installed LPZ galvanometer. |
| Mould Bay, N. W. T. | | Mr. G. Yada succeeded Mr. W. T. Piche as operator-in-charge in August. |

DOMINION OBSERVATORIES

Ottawa, Ont.		LPZ was reversed in Polarity from May 22 - Aug. 16.
	SEPT. OCT.	Calibrated all S. P. Seismographs. Calibrated LPZ Columbia Seismo- graph.
		As of January, various calibrations were made of Ottawa instruments for test purposes.
Resolute, N. W. T.		Mr. W. Cannon succeeded Mr. O. J. Jensen as operator-in-charge in August. Mr. G. Bavaria succeeded Mr. Cannon as operator-in-charge in October. L. P. seismometers set to 30 second period and all seismographs re- calibrated in August.
Schefferville, Que.		L. P. seismometers set to 30 second period and all seismographs re- calibrated in Nov. and Dec.
Sept Iles, Que.	OCT. 23	SPZ galvanometer broken.
Seven Falls, Que.		Intermittant operation Aug. -Dec. due to technical difficulties.

CALIBRATION CURVES

STATION: COPPERMINE, N. W. T.



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

Foundation Precambrian Rock

$T_s \uparrow$

$T_g \uparrow$

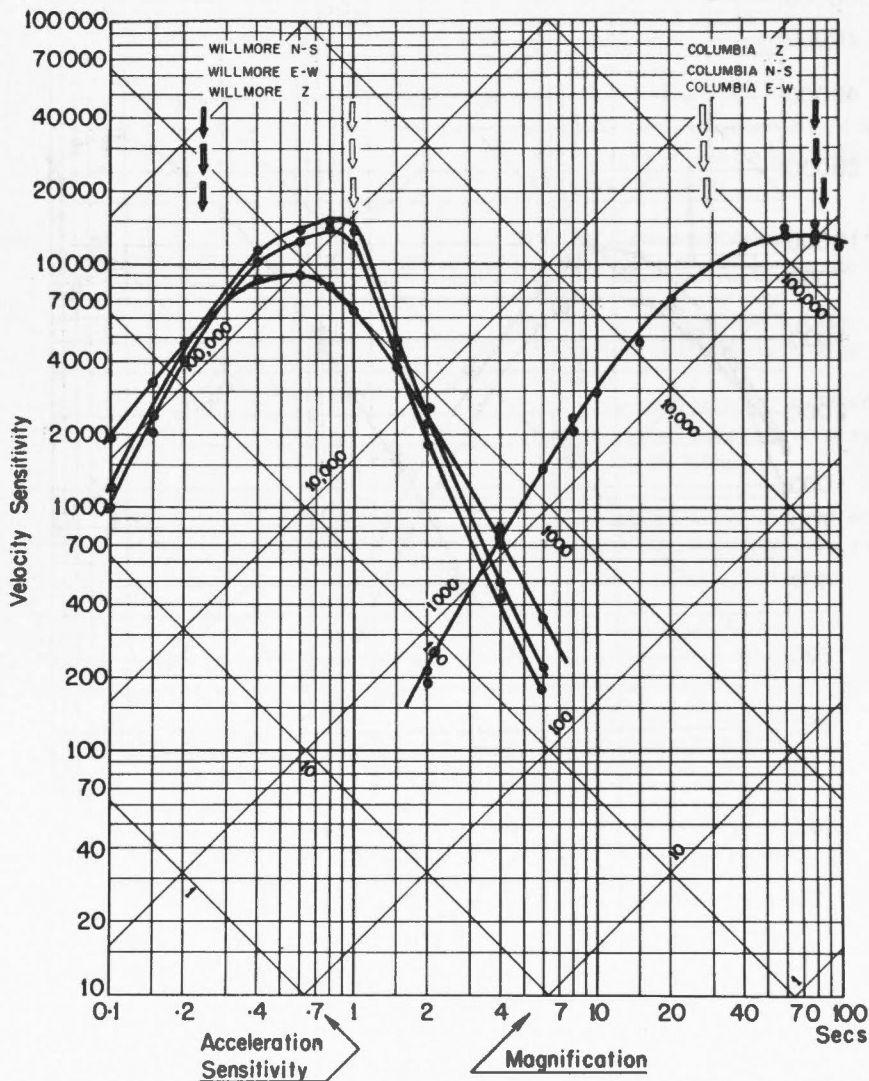
Date of Calibration: April 1963

S. P. - Z. APRIL 4
 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.

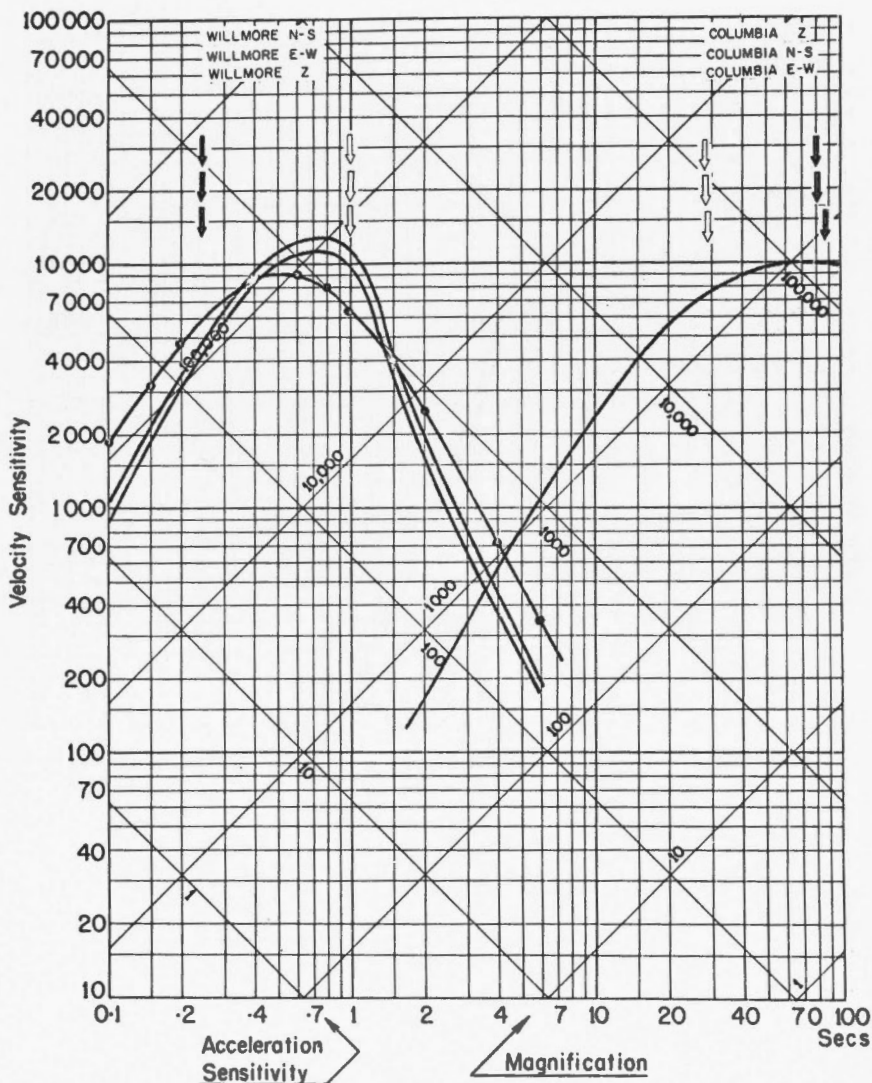
Willmore's

Columbia's

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

CALIBRATION CURVES

STATION: EDMONTON



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

Foundation: Unconsolidated Shales, Edmonton Formation

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration:

Willmore's

Columbia's

S. P. Z. - April 18 - 1963

L. P. Z. - May 20 - 1963

S. P. - N.S. - May 20 - 1963

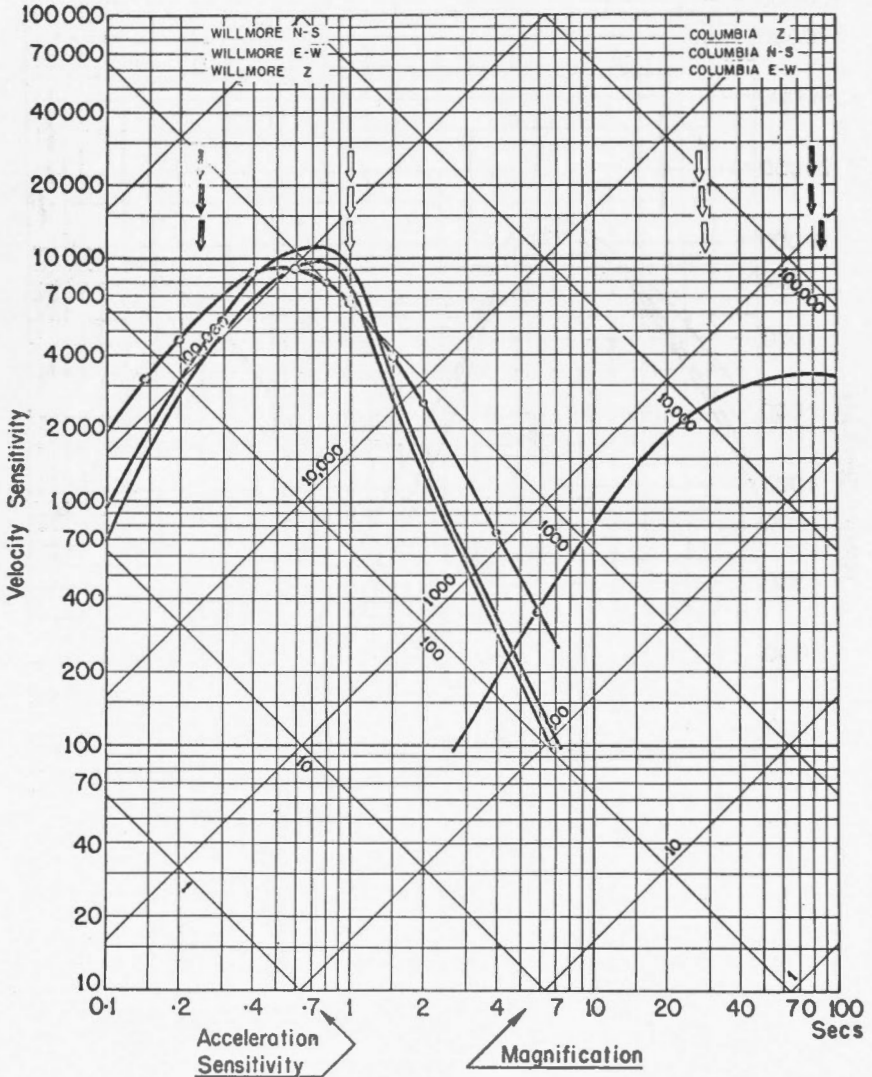
L. P. - N.S. - May 20 - 1963

S. P. - E.W. - May 20 - 1963

L. P. - E.W. - May 20 - 1963

CALIBRATION CURVES

STATION: EDMONTON



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

Foundation : Unconsolidated Shales, Edmonton Formation

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration:

Willmore's

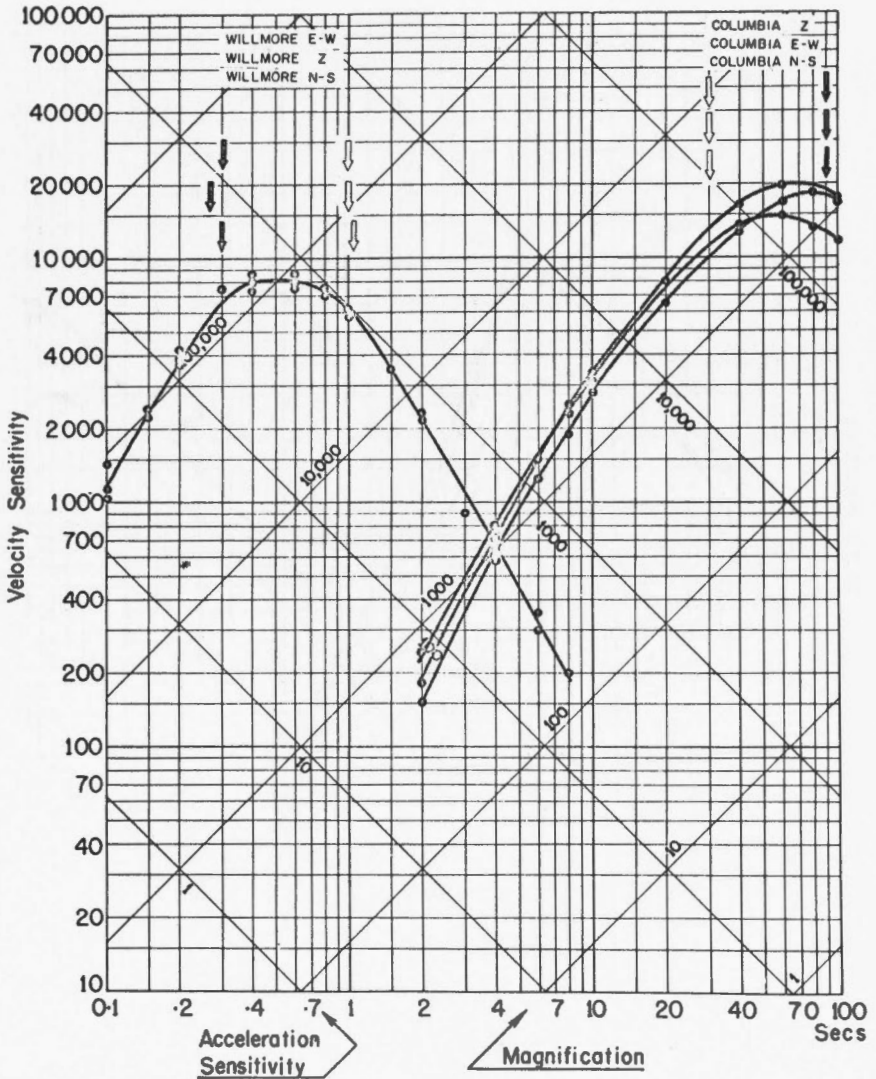
Columbia's

S. P. Z. - April 18 - 1963
 S. P. - N. S. - Nov. 20 - 1963
 S. P. - E. W. - Nov. 20 - 1963

L. P. Z. - Oct. 25 - 1963
 L. P. - N. S. - Oct. 25 - 1963
 L. P. - E. W. - Oct. 25 - 1963

CALIBRATION CURVES

STATION: FROBISHER, N. W. T.



$\phi = 63^{\circ}44'N$ $\lambda = 68^{\circ}28'W$ Altitude 45M

Foundation : Precambrian metamorphic rock

$\tau_s \uparrow$

$\tau_g \uparrow$

Date of Calibration:

Willmore's

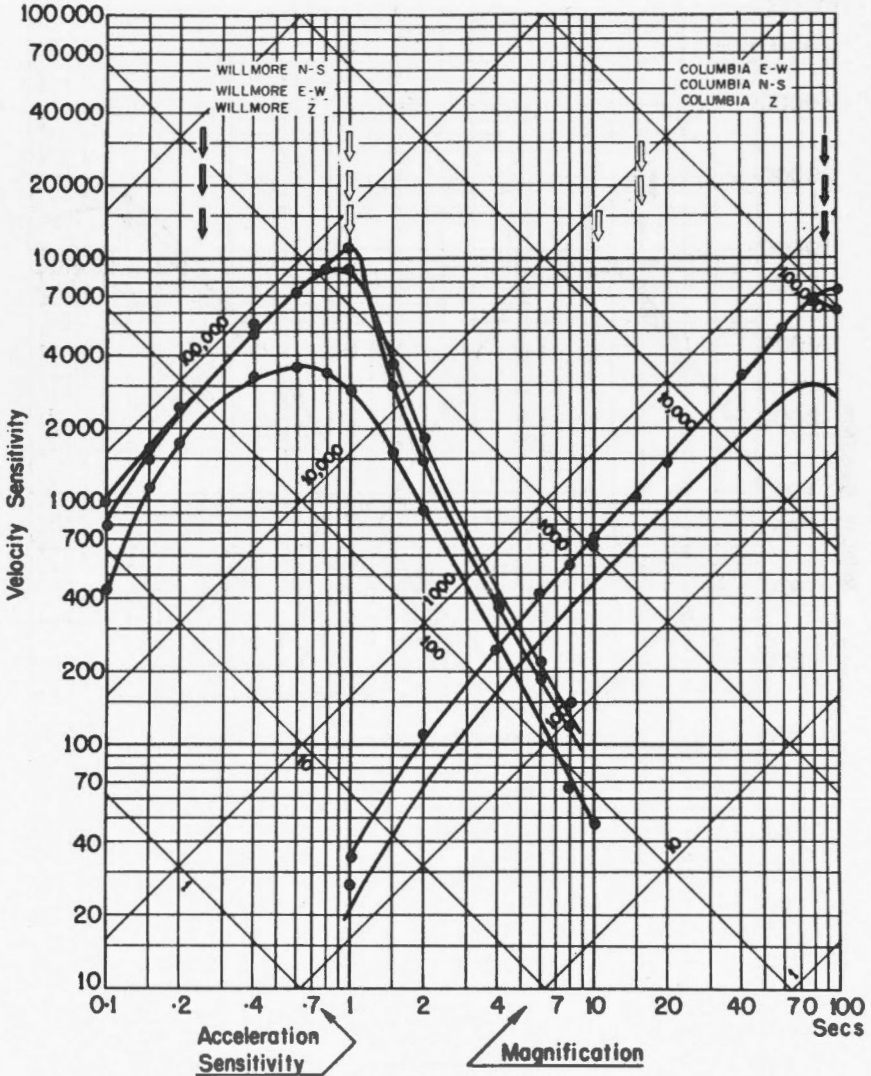
Columbia's

S. P. Z. - Aug. 17 - 1963
 S. P. - N. S. - Aug. 17 - 1963
 S. P. - E. W. - Aug. 17 - 1963

L. P. Z. - Aug. 17 - 1963
 L. P. - N. S. - Aug. 17 - 1963
 L. P. - E. W. - Aug. 17 - 1963

CALIBRATION CURVES

STATION: LONDON



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

Foundation : Devonian Limestone

$T_s \uparrow$

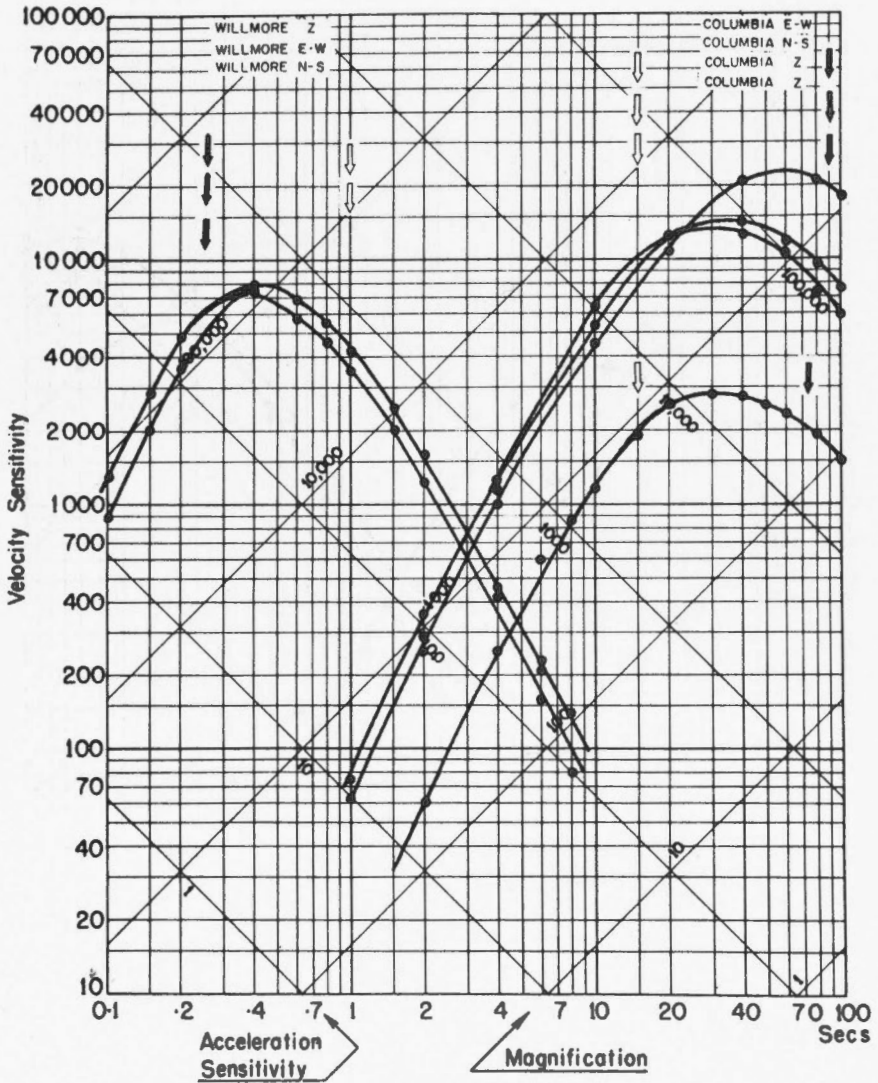
$T_g \uparrow$

Date of Calibration: 1961-62

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

CALIBRATION CURVES

STATION: OTTAWA



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

Foundation : Boulder clay on limestone

T_s ↑

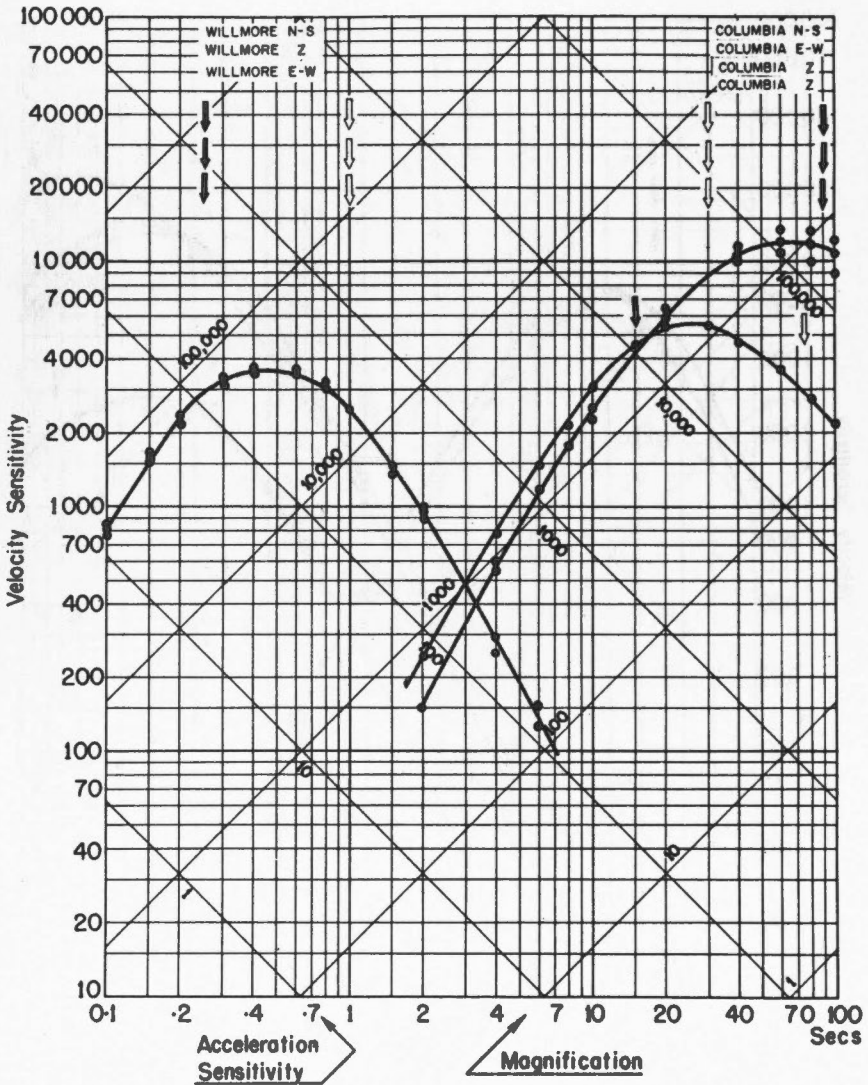
T_g ↑

Date of Calibration: 1961-63

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

CALIBRATION CURVES

STATION: OTTAWA



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

Foundation: Boulder clay on limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: 1963 - 1964

WILLMORE'S

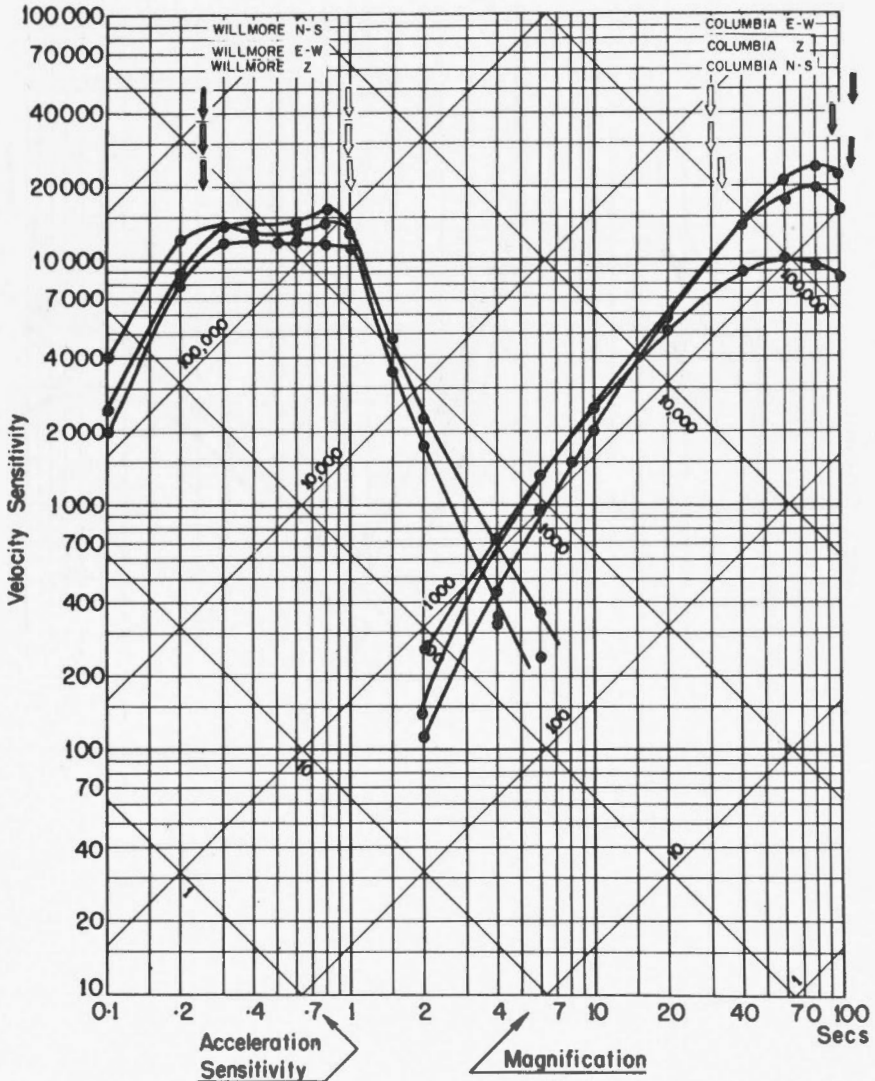
COLUMBIA'S

S. P. - Z Sept. 27-63
 S. P. - N. S. Sept. 27-63
 S. P. - E. W. Sept. 27-63

L. P. - Z. Sept. 24-63
 L. P. - Z. Oct. 29-63
 L. P. - N. S. Feb. 7-64
 L. P. - E. W. Feb. 6-64

CALIBRATION CURVES

STATION: RESOLUTE, N.W.T.



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

Foundation : Early Palaeozoic limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: August 1963

WILLMORE'S

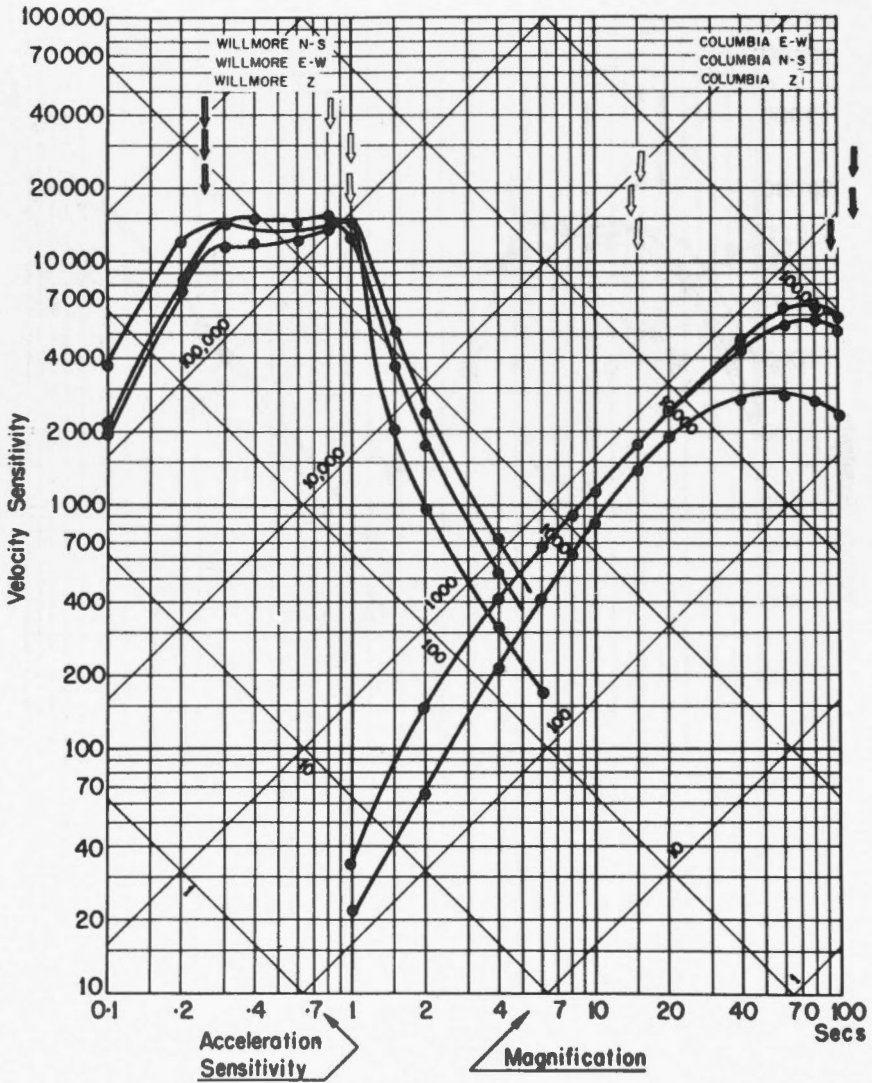
COLUMBIA'S

S.P. - Z. AUG. 10
 S.P.H. - N.S. AUG. 10
 S.P.H. - E.W. AUG. 10

L.P.Z. AUG. 13
 L.P.H. - N.S. AUG. 14
 L.P.H. - E.W. AUG. 14

CALIBRATION CURVES

STATION: RESOLUTE, N.W.T. (as found)



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

Foundation : Early Palaeozoic limestone

T_s ↑

T_g ↑

Date of Calibration: August 1963

WILLMORE'S

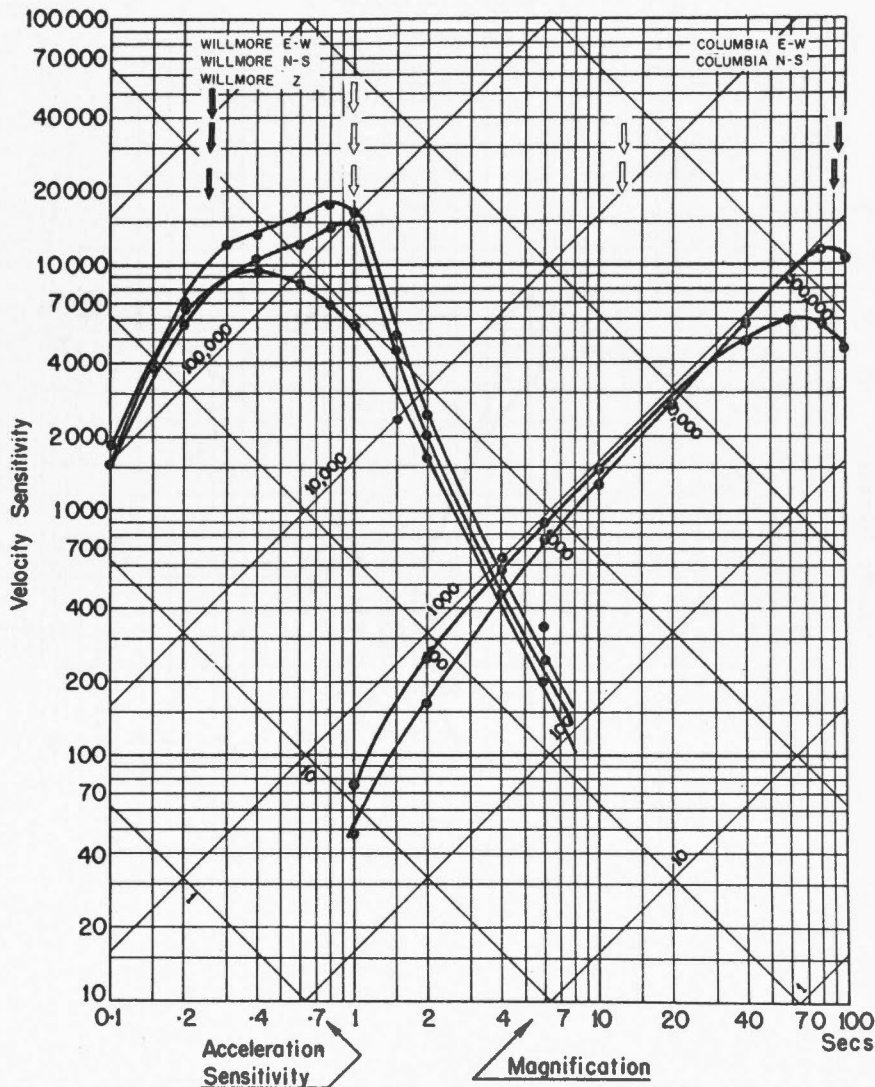
COLUMBIA'S

S.P. - Z. AUG. 10
 S.P.H. - N.S. AUG. 10
 S.P.H. - E.W. AUG. 10

L.P. - Z. AUG. 11
 L.P.H. - N.S. AUG. 12
 L.P.H. - E.W. AUG. 12

CALIBRATION CURVES

STATION: SCHEFFERVILLE (AS FOUND)



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

Foundation : Precambrian foundation rocks.

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: 1963

WILLMORE'S

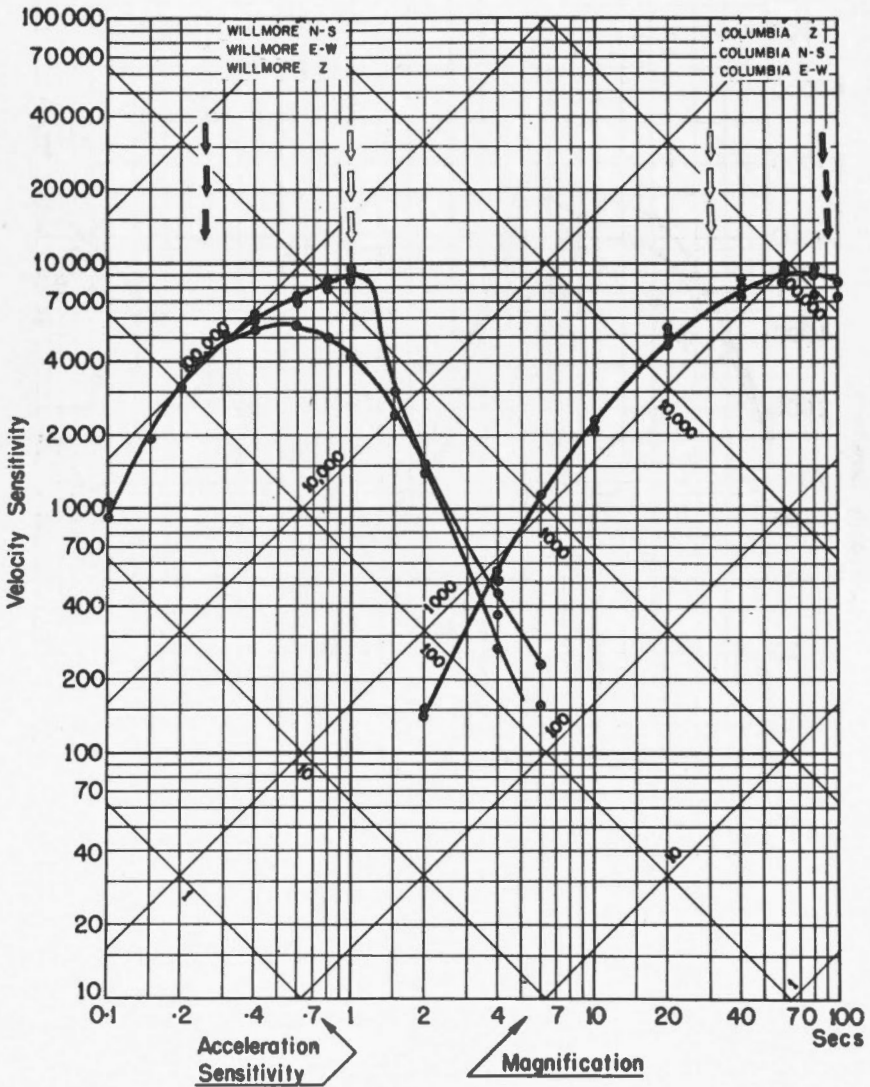
COLUMBIA'S

S. P. - Z Nov. 28
 S. P. H. - N. S. Nov. 28
 S. P. H. - E. W. Nov. 29

L. P. - Z
 L. P. H. - N. S. Nov. 30
 L. P. H. - E. W. Dec. 1

CALIBRATION CURVES

STATION: SCHEFFERVILLE



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

Foundation : Precambrian foundation rocks.

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: 1963

WILLMORE'S

COLUMBIA'S

S. P. -Z Nov. 28
 S. P. H. - N. S. Nov. 28
 S. P. H. - E. W. Nov. 29

L. P. -Z Nov. 30
 L. P. H. - N. S. Dec. 1
 L. P. H. - E. W. Dec. 2

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JULY 1		JULY 1		JULY 1	
Resolute		42°34'N, 73°45'W		U.S.C.G.S.	
e(P)	03 00 45	About 20 miles south of		46.5N, 153.6E	
		Albany in the Hudson		Kurile Islands	
JULY 1		River Valley N.Y.		H = 22 39 57.8	
Resolute		H = 19 59 12		h = about 69 km	
eP	03 28 10 c	Mag 3.3		Mag 4.5 (CGS)	
		London		Alert	
JULY 1		eP ₁	20 00 48	eP	22 48 46
Schefferville		eS _n	20 01 36	Mould Bay	
eP	08 27 13	S ₁	20 01 59	eP	22 48 08
		D = 595 km		Penticton	
JULY 1		Montreal		eP	22 49 08
U.S.C.G.S.		iP ₁	20 00 04 d	Resolute	
29.9N, 141.3E		S ₁	20 00 44	eP	22 48 53
South of Honshu, Japan		D = 325 km			
H = 09 20 12.5		Ottawa		JULY 2	
h = about 75 km		eP ₁	20 00 09	U.S.C.G.S.	
Mag 4.3 (CGS)		i	20 00 49	43.9N, 85.2E	
Edmonton		S ₁	20 00 53	Sinkiang Prov., China	
eP	09 31 47 c	D = 355 km		H = 00 15 22.4	
Penticton		Scarborough		h = about 39 km	
eP	09 31 38	eP ₁	20 06 26	Mag 4.4 (CGS)	
Resolute		eS _n	20 01 05	Mould Bay	
eP	09 31 (13)	S ₁	20 01 23	eP	00 25 20
		D = 465 km			
JULY 1		JULY 1		JULY 2	
Resolute		U.S.C.G.S.		U.S.C.G.S.	
e(P)	10 33 (15)	37.0N, 96.1E		46.3N, 153.4E	
JULY 1		Tsinghai Prov., China		Kurile Islands	
Mould Bay		H = 21 10 28.5		H = 01 39 19.3	
eP	11 39 38	h = about 33 km		h = about 33 km	
Resolute		Mag 5.3 (CGS)		Mag 4.0 (CGS)	
eP	11 40 05 (d)	Banff		Resolute	
		eP	21 23 17	e(P)	01 48 (20)
JULY 1		Edmonton		JULY 2	
H = 13 54 40		eP	21 23 10 c	U.S.C.G.S.	
Mag 2.4		Mould Bay		64.0N, 148.4W	
Port Hardy		eP	21 21 05.5	Central Alaska	
iP ₁	13 55 07.6	Penticton		H = 02 52 55.8	
S ₁	13 55 28.5	iP	21 23 20 c	h = about 33 km	
D = 171 km		Resolute		Mag 4.0 (CGS)	
		eP	21 21 29 c	Edmonton	
		Schefferville		eP	02 57 35 (c)
		eP	21 23 14 c		

DOMINION OBSERVATORIES

Mould Bay eP 02 56 32.5'	JULY 2 U.S.C.G.S. 7.8S, 109.0E	JULY 2 Edmonton eP 22 49 (32)
Resolute eP 02 57 (33)	Java H = 09 46 35.8 h = about 117 km Mag 5.1 (CGS) Edmonton eP' 10 05 21 c	JULY 2 H = 23 35 03 Mag 2.0 Penticton eP 23 35 28.2 eS 23 35 47.6 D = 159 km
JULY 2 U.S.C.G.S. 2.4S, 77.8W Ecuador H = 02 52 53.0 h = about 33 km Mag 4.6 (CGS) Edmonton eP 03 03 (15) Mould Bay eP 03 05 10.5 Penticton eP 03 03 18	JULY 2 U.S.C.G.S. 45.7N, 149.1E Kurile Islands Region H = 15 03 09.6 h = about 33 km Resolute eP 15 12 20	JULY 3 H = 00 43 51 Mag 2.1 Penticton iP 00 44 12.0 eS 00 44 36.7 D = 162 km
JULY 2 51°3N, 117°6W Near Glacier, B.C. H = 03 40 08 Mag 2.6 Edmonton eP 03 41 05.3 D = 410 km Penticton eP 03 40 40.5 eS 03 41 12.2 D = 260 km	JULY 2 U.S.C.G.S. 9.0N, 83.0W Panama Costa Rica Border H = 18 05 33.7 h = about 64 km Mag 4.2 (CGS) Edmonton eP 18 14 (25) Mould Bay eP 18 16 41 Penticton eP 18 14 28 Resolute eP 18 16 15	JULY 3 Resolute eP 01 12 11 JULY 3 U.S.C.G.S. 50.6N, 177.9W Andreanof Islands, Aleutian Islands H = 02 16 11.7 h = about 33 km Mag 4.3 (CGS) Edmonton eP 02 23 32(c) Mould Bay eP 02 22 (55)
JULY 2 U.S.C.G.S. 39.8N, 104.7W Colorado H = 08 02 54.1 h = about 15 km Mag 4.6 (CGS) Banff e 08 10 04 Edmonton eP 08 06 20 Penticton e 08 10 03	JULY 2 Edmonton eP 19 38 (51) Mould Bay eP 19 38 32 Resolute e(P) 19 39 (24)	JULY 3 U.S.C.G.S. 14.6N, 92.8W Chiapas, Mexico H = 09 13 30.7 h = about 72 km Mag 4.0 (CGS)

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Edmonton eP 09 21 14	JULY 4 U. S. C. G. S. 43.7N, 126.4 W	Halifax iP' 11 16 55 d
Mould Bay eP 09 23 52.5	Off coast of Oregon H = 05 50 49.5	London eP' 11 16 30
Resolute eP 09 23 (30)	h = about 33 km Mag 4.4 (CGS)	Mould Bay eP 11 12 (18)
JULY 3	Penticton iP 05 52 37	eP' 11 16 22
H = 17 48 36	JULY 4	Ottawa eP 11 12 54(c)
Mag 2.5	U. S. C. G. S.	eP' 11 16 37
Port Hardy iP 17 49 03.8	24.0N, 122.4E	Penticton eP 11 10 (39)
eS 17 49 24.7	Near east coast of	Port Hardy iP 11 10 48 d
D = 171 km	Formosa	Resolute eP 11 12 (40)
JULY 3	H = 06 55 16.8	iP' 11 16 32
Mould Bay	h = about 63 km	Schefferville eP' 11 16 48 d
eP 19 30 (26)	Mag 4.6 (CGS)	Sept-Îles eP' 11 16 50
JULY 3	Edmonton	Seven Falls eP' 11 16 44
H = 21 58 23	eP 07 08 08 c	Victoria eP 11 10 51 d
Mag 2.0	Mould Bay eP 07 06 41	JULY 4
Penticton	Penticton iP 07 08 06 d	U. S. C. G. S.
eP 21 58 49.5	Resolute eP 07 07 13 (c)	22.9S, 175.6W
eS 21 59 09.5	JULY 4	Tonga Islands Region
D = 164 km	Mould Bay	H = 14 16 51.1
JULY 4	iP 10 43 20	h = about 33 km
H = 01 07 50	Resolute	Mag 4.8 (CGS)
Mag 2.4	e(P) 10 43 53	Edmonton
Penticton	JULY 4	eP 14 30 (02)
iP 01 08 24.4	U. S. C. G. S.	JULY 4
eS 01 08 51.8	26.3S, 177.7W	Mould Bay
D = 224 km	Tonga Islands Region	eP 17 28 41
JULY 4	H = 10 58 13.2	i 17 28 59
U. S. C. G. S.	h = about 158 km	JULY 4
12.8N, 88.7W	Mag 6 3/4 (PAS),	H = 19 32 35
Near Coast of El Savador	6 3/4 - 7 (BKS),	Mag 2.2
H = 01 43 20.8	6.5 (CGS)	
h = about 55 km	Banff eP 11 11 16	
Mag 4.1 (CGS)	Edmonton eP 11 11 26 d	
Resolute		
eP 01 53 34 c		

DOMINION OBSERVATORIES

Penticton eP 19 33 00.7 eS 19 33 20.3 D = 160 km	Ottawa eP 05 57 52 (c) Penticton eP 05 59 27 Resolute eP 06 00 52 Scarborough iP 05 57 41 (c) Schefferville eP 05 59 00 c Sept-Îles eP 05 58 31 Seven Falls eP 05 58 08 Victoria eP 05 59 36	JULY 5 U.S.C.G.S. 37.2N, 73.0E Hindu Kush H = 13 11 37.5 h = about 111 km Mag 5.0 (CGS) Edmonton iP 13 24 26 d Mould Bay iP 13 22 17 d Resolute eP 13 22 27 d
JULY 4 U.S.C.G.S. 18.5S, 12.6W St. Helena Island Region H = 22 56 15.7 h = about 33 km Mag 5 1/4 - 5 1/2 (PAL) 5.6 (CGS) London eP 23 09 03 Ottawa eP 23 08 52	JULY 5 U.S.C.G.S. 27.7N, 92.1E Assam, India H = 07 19 15.8 h = about 33 km Mag 4.2 (CGS) Mould Bay eP 07 30 51	JULY 5 U.S.C.G.S. 3.2S, 77.8W Peru-Ecuador Border H = 14 29 24.8 h = about 65 km Mag 4.2 (CGS) Mould Bay eP 14 41 43.5c
JULY 5 U.S.C.G.S. 50.4N, 90.6E Outer Mongolia H = 03 29 36.1 h = about 33 km Mag 4.5 (CGS) Mould Bay eP 03 38 44 c Resolute eP 03 39 06	JULY 5 U.S.C.G.S. 31.7N, 142.4E South of Honshu, Japan H = 08 35 10.9 h = about 30 km Mag 4.2 (CGS) Mould Bay eP 08 45 25.5	JULY 5 U.S.C.G.S. 12.8N, 88.9W Near coast of El Salvador H = 14 40 54.7 h = about 85 km Mag 4.1 (CGS) Edmonton eP 14 49 (01) Mould Bay eP 14 51 28.5 Resolute eP 14 51 06
JULY 5 U.S.C.G.S. 11.6S, 77.5W Peru H = 05 49 13.4 h = about 55 km Mag 5.8 (CGS) Alert eP 06 01 27 c Edmonton eP 05 59 29 d London iP 05 57 35 c Mould Bay iP 06 01 13 d S 06 11 38	JULY 5 Mould Bay eP 11 24 36	

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- JULY 5
U.S.C.G.S.
36.7N, 73.0E
Hindu Kush
H = 16 27 27.6
h = about 193 km
Mag 4.3 (CGS)
Mould Bay
iP 16 38 01 d
- JULY 5
H = 19 13 27
Mag 2.5
Pentiction
iP 19 13 54.7
iS 19 14 15.5
D = 170 km
- JULY 5
H = 20 30 34
Mag 2.0
Pentiction
iP 20 30 46.7
iS 20 30 56.6
D = 87 km
- JULY 5
H = 22 33 02
Mag 2.3
Pentiction
eP 22 33 27.6
eS 22 33 47.0
D = 159 km
- JULY 5
Mould Bay
eP 23 27 33
- JULY 6
U.S.C.G.S.
30.3N, 99.8E
Sikang Province, China
H = 01 01 28.7
h = about 33 km
Mag 4.9 (CGS)
Mould Bay
eP 01 12 44
- JULY 6
Resolute
e(P) 01 47 (26)
- JULY 6
Mould Bay
eP 06 13 33
- JULY 6
66.2N, 133.6W
Boundary of Yukon
Territory and N.W.T.,
about 75 miles SSE of
Fort McPherson N.W.T.
H = 10 26 20.5
Mag 4.5
Edmonton
eP 10 30 (10)
Mould Bay
P_n 10 28 53 c
S_n 10 30 53
D = 1215 km
Schefferville
e 10 43 27
Resolute
P_n 10 29 52
S_n 10 32 34
eL_g 10 34 23
D = 1670 km
- JULY 6
U.S.C.G.S.
28.0N, 57.6E
Southeastern Iran
H = 13 34 04
h = about 80 km
Alert
eP 13 44 45 c
Mould Bay
iP 13 44 44 (d)
- JULY 6
U.S.C.G.S.
11.6N, 142.7E
Mariana Islands Region
H = 17 49 54.5
h = about 26 km
Mag 4.6 (CGS)
Alert
eP 18 02 31 d
Mould Bay
eP 18 02 06
Pentiction
iP 18 02 31 d
Resolute
eP 18 02 39 (d)
Victoria
eP 18 02 23
- JULY 6
H = 21 10 15
Mag = 2.4
Pentiction
eP 21 10 40.4
eS 21 10 59.8
D = 159 km
- JULY 6
U.S.C.G.S.
37.7N, 141.7E
Near east coast of
Honshu, Japan
H = 22 22 22.9
h = about 34 km
Mag 4.3 (CGS)
Resolute
eP 22 32 40 (c)
- JULY 7
U.S.C.G.S.
17.9N, 145.6E
Mariana Islands Region
H = 10 17 24.4
h = about 137 km
Mag 4.7 (CGS)
Alert
eP 10 29 15 c

DOMINION OBSERVATORIES

Edmonton
eP 10 29 32 c
Mould Bay
iP 10 28 46 c
Penticton
eP 10 29 18
Port Hardy
eP 10 28 48
Resolute
eP 10 29 21
Victoria
eP 10 29 06

JULY 7

Edmonton
eP 15 23 25

JULY 7

74° 20'N, 95° 20'W
Barrow Strait N.W.T.

H = 18 28 01
Mag 4.0

Alert

eP_n 18 30 26
eS_n 18 32 17
D = 1140 km

Mould Bay

iP_n 18 29 33 d
eS_n 18 30 43
L_g 18 31 21
D = 710 km

Resolute

P₁ 18 28 09.4 d, s, w
S₁ 18 28 15.8
D = 52 km

JULY 7

Resolute
e(P) 18 52 (44)

JULY 7

U.S.C.G.S.
39.6N, 111.9W
Central Utah
H = 19 20 42.3
h = about 33 km
Mag 4.9 (CGS)

Edmonton
eP 19 23 (54)
London
eP 19 25 50 (d)
Mould Bay
eP 19 27 (51)
Penticton
eP 19 23 17
Port Hardy
eP 19 23 26
Resolute
eP 19 27 (42)
Scarborough
eP 19 26 02
Schefferville
eP 19 27 22
Victoria
eP 19 23 34

JULY 7

Resolute
e(P) 21 42 (25)

JULY 8

U.S.C.G.S.
57.0N, 134.5W
Southeastern Alaska
H = 00 15 05.9
h = about 28 km
Mag 3.7 (CGS)
Edmonton
eP 00 18 (11)
Mould Bay
eP 00 19 (50)

JULY 8

U.S.C.G.S.
40.8N, 125.8W
Off coast of Northern
California
H = 04 19 08.4
h = about 33 km
Mag 4.7 (CGS)
Edmonton
eP 04 22 (36)

Penticton
eP 04 21 19
Port Hardy
eP 04 21 30

JULY 8

U.S.C.G.S.
26.7N, 55.7E
Near south coast of Iran
H = 08 58 04.8
h = about 33 km
Mag 4.8 (CGS)
Mould Bay
eP 09 09 57

JULY 8

Resolute
e(P) 10 14 55

JULY 8

U.S.C.G.S.
0.3N, 17.8W
Mid Atlantic Ocean
H = 11 05 07.5
h = about 33 km
Mag 4.9 (CGS)
Edmonton
eP 11 18 (18)
Mould Bay
eP 11 18 (19)
Resolute
eP 11 17 (50)
Schefferville
eP 11 16 (05)

JULY 8

U.S.C.G.S.
57.4N, 154.0W
Kodiak Island, Alaska
H = 14 12 30.5
h = about 30 km
Mag 4.6 (CGS)
Edmonton
eP 14 17 37
Mould Bay
eP 14 17 32

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Resolute eP 14 18 19	Victoria iP 17 54 42 c	JULY 9 U.S.C.G.S. 22.0N, 145.7E Volcano Islands Region H = 04 09 28.6 h = about 33 km Mag 4.7 (CGS) Edmonton eP 04 21 (30) Mould Bay eP 04 20 39
JULY 8 U.S.C.G.S. 35.8N, 69.7E Hindu Kush Region H = 15 29 33.5 h = about 131 km Mould Bay eP 15 40 19.5	JULY 8 U.S.C.G.S. 6.8N, 73.0W Colombia H = 21 02 56.9 h = about 166 km Mag 4.0 (CGS) Mould Bay eP 21 14 15	JULY 9 U.S.C.G.S. 15.2N, 94.0W Mexico-Guatemala Border H = 04 20 50.6 h = about 33 km Mag 4.5 (CGS) Edmonton eP 04 28 31(d) Penticton eP 04 28 26 Resolute eP 04 30 51 Schefferville eP 04 29 02 d
JULY 8 U.S.C.G.S. 36.6N, 28.0E Near south coast of Turkey H = 16 02 26.8 h = about 30 km Mag 4.7 (CGS) Edmonton eP 16 14 57 Mould Bay eP 16 13 08	JULY 8 H = 22 30 30 Mag 2.2 Penticton eP 22 30 55.4 eS 22 31 15.0 D = 161 km	JULY 9 Edmonton eP 00 53 38 (d)
JULY 8 U.S.C.G.S. 65.8N, 153.9W Central Alaska H = 17 49 30.9 h = about 33 km Mag 4.8 (CGS) Alert eP 17 55 01 Edmonton eP 17 54 39 c Mould Bay eP 17 53 00 i 17 55 (41) Penticton eP 17 54 47 Port Hardy eP 17 54 06 c Resolute eP 17 54 12 Schefferville eP 17 57 13	JULY 9 U.S.C.G.S. 46.3N, 153.7E Kurile Islands Region H = 03 04 37.4 h = about 33 km Mag 4.8 (CGS) Alert eP 03 13 31 Edmonton eP 03 14 (12) Mould Bay eP 03 12 (49) Penticton eP 03 14 08 Resolute eP 03 13 38	JULY 9 Penticton iP 04 32 19
	JULY 9 U.S.C.G.S. 8.5N, 83.0W Costa Rica-Panama Border H = 09 24 33.3 h = about 31 km Mag 5.1 (CGS)	JULY 9 Mould Bay eP 05 54 23

DOMINION OBSERVATORIES

Alert i 09 36 10	JULY 9 Mould Bay eP 13 17 18 i 13 18 16	JULY 9 U. S. C. G. S. 40.1N, 111.3W Central Utah H = 20 25 28.8 h = about 33 km Mag 4.1 (CGS) Penticton eP 20 28 05
Banff eP 09 33 26	JULY 9 U. S. C. G. S. 60.0N, 154.5W Southern Alaska H = 17 22 54.7 h = about 60 km Mag 4.4 (CGS) Mould Bay eP 17 27 26 i 17 31 38	JULY 9 H = 21 05 07 Mag 2.4 Penticton eP 21 05 32.2 iS 21 05 51.6 D = 159 km
Edmonton eP 09 33 32 d	JULY 9 U. S. C. G. S. 24.2N, 122.4E Near east coast of Formosa H = 17 34 33.2 h = about 33 km Mag 4.8 (CGS) Edmonton eP 17 47 27 c	JULY 9 H = 23 36 25 Mag 2.7 Penticton iP 23 36 52.4 iS 23 37 13.0 D = 168 km
Halifax eP 09 32 05	JULY 9 U. S. C. G. S. 75.9N, 107.3W Melville Island N. W. T. H = 10 56 58.5 h = 24 km Mag 2.9 Mould Bay P _n 10 57 41.5 P ₁ 10 57 47.5 S _n 10 58 15 i 10 58 23 S ₁ 10 58 27.8 D = 325 km	JULY 9 U. S. C. G. S. 36.5N, 71.8 E Hindu Kush H = 02 11 58.3 h = about 33 km Mag 4.9 (CGS) Mould Bay eP 02 22 50 c
London (e)P 09 31 20 c	JULY 9 U. S. C. G. S. 29.1S, 68.1W La Rioja Prov., Argentina H = 18 56 12.9 h = about 33 km Mag 4.8 (CGS) Edmonton eP 19 09 13 (d) Mould Bay eP' 19 14 41 Shefferville eP 19 08 40	JULY 10 Mould Bay eP 03 03 55
Mould Bay eP 09 35 45	JULY 9 U. S. C. G. S. 46.3N, 153.4E Kurile Islands Region H = 03 14 41.8 h = about 33 km Mag 4.8 (CGS)	JULY 10 U. S. C. G. S. 46.3N, 153.4E Kurile Islands Region H = 03 14 41.8 h = about 33 km Mag 4.8 (CGS)
Ottawa eP 09 31 45		
Penticton eP 09 33 33		
Port Hardy eP 09 34 10 c		
Resolute eP 09 35 20 d		
Shefferville eP 09 33 10		
Victoria iP 09 33 44 d		
JULY 9 75.9N, 107.3W Melville Island N. W. T. H = 10 56 58.5 h = 24 km Mag 2.9 Mould Bay P _n 10 57 41.5 P ₁ 10 57 47.5 S _n 10 58 15 i 10 58 23 S ₁ 10 58 27.8 D = 325 km	JULY 9 U. S. C. G. S. 29.1S, 68.1W La Rioja Prov., Argentina H = 18 56 12.9 h = about 33 km Mag 4.8 (CGS) Edmonton eP 19 09 13 (d) Mould Bay eP' 19 14 41 Shefferville eP 19 08 40	JULY 10 Mould Bay eP 03 03 55
Resolute P _n 10 57 52.5 P ₁ 10 58 03.5 S _n 10 58 33 S ₁ 10 58 49 D = 380 km		

SEISMOLOGICAL BULLETIN - 1963

Alert
 eP 03 23 35
 Edmonton
 eP 03 24 22 (c)
 Mould Bay
 eP 03 22 55 c
 Penticton
 eP 03 24 15
 Resolute
 eP 03 23 43 (c)

JULY 10
 U.S.C.G.S.
 39.8N, 23.9E
 Aegean Sea
 H = 07 19 41
 h = about 127 km
 Mag 4.2 (CGS)
 Edmonton
 eP 07 31 39 (c)
 Mould Bay
 eP 07 29 49

JULY 10
 U.S.C.G.S.
 16.3S, 72.2W
 Southern Peru
 H = 11 47 35.1
 h = about 90 km
 Mag 4.1 (CGS)
 Edmonton
 eP 11 59 23(d)
 Mould Bay
 eP 12 00 56

JULY 10
 U.S.C.G.S.
 46.3N, 152.9E
 Kurile Islands Region
 H = 05 22 57.1
 h = about 33 km
 Mag 5.6 (CGS)
 Alert
 eP 05 31 50 c
 Banff
 eP 05 32 39
 Edmonton
 eP 05 32 37 c
 Halifax
 iP 05 35 36 d
 London
 iP 05 34 59 c
 Mould Bay
 eP 05 31 09.5 c
 Ottawa
 eP 05 34 59
 Penticton
 eP 05 32 29
 Port Hardy
 iP 05 31 55 c
 Resolute
 eP 05 31 58 (c)
 Schefferville
 eP 05 34 30
 Seven Falls
 eP 05 35 01
 Victoria
 iP 05 32 19 c

JULY 10
 U.S.C.G.S.
 46.3N, 154.0E
 Kurile Islands Region
 H = 09 20 39.0
 h = about 33 km
 Mag 3.9 (CGS)
 Mould Bay
 eP 09 28 (50)

JULY
 JULY 10
 U.S.C.G.S.
 13.4N, 44.9W
 North Atlantic Ocean
 H = 09 49 29.6
 h = about 37 km
 Mag 4.9 (CGS)
 Alert
 eP 10 00 36 d
 Banff
 eP 10 00 23
 Edmonton
 eP 10 00 16 (d)
 Mould Bay
 iP 10 00 59 d
 Penticton
 iP 10 00 38 d
 Port Hardy
 eP 10 01 06
 Resolute
 eP 10 00 (20)
 Schefferville
 eP 09 57 40 d
 Victoria
 iP 10 00 53 d

JULY 10
 U.S.C.G.S.
 46.1N, 153.9E
 Kurile Islands Region
 H = 13 54 22.6
 h = about 33 km
 Mag 4.8 (CGS)
 Edmonton
 eP 14 04 02
 Mould Bay
 eP 14 02 35
 Penticton
 eP 14 03 53
 Resolute
 eP 14 03 (23)

JULY 10
 U.S.C.G.S.
 8.8N, 82.9W
 Panama
 H = 18 22 47.9
 h = about 51 km
 Mag 4.3 (CGS)
 Edmonton
 eP 18 31 (43)
 Mould Bay
 eP 18 33 57
 Resolute
 eP 18 33 (31)

JULY 10
 Mould Bay
 eP 19 17 38

DOMINION OBSERVATORIES

JULY 10	Mould Bay eP 19 24 17	Mould Bay eP 23 00 49	JULY 11	Mould Bay eP 16 36 10
JULY 10	U.S. C. G. S. 19.2N, 145.2E Mariana Islands Region H = 19 52 19.4 h = about 171 km Mag 5.4 (CGS) Alert eP 20 03 57 Banff eP 20 04 15 Edmonton iP 20 04 19 d Mould Bay iP 20 03 30 d Penticton iP 20 04 05 d Port Hardy iP 20 03 36 d Resolute iP 20 04 06 d Victoria iP 20 03 53 d	JULY 10 H = 23 06 33 Mag 1.9 Penticton iP 23 06 44.0 eS 23 06 52.1 D = 66 km	JULY 11 Resolute e(P) 16 36 (57)	JULY 11 Mould Bay eP 18 10 28
JULY 10	Mould Bay eP 21 35 59	JULY 11 Mould Bay eP 05 17 49	JULY 11 Mould Bay eP 22 24 38	JULY 11 H = 22 54 18 Mag 1.8 Penticton eP 22 54 44.0 iS 22 55 03.6 D = 161 km
JULY 10	H = 22 38 22 Mag 1.9 Penticton eP 22 38 57.4 eS 22 39 16.8 D = 159 km	JULY 11 U.S. C. G. S. 16.6N, 99.1W Near coast of Oaxaca, Mexico H = 13 20 13.1 h = about 33 km Mag 4.5 (CGS) Edmonton eP 13 27 31 Mould Bay eP 13 30 22 Penticton iP 13 27 19 d	JULY 12 Mould Bay eP 02 13 07	JULY 12 Mould Bay eP 04 01 23 d
JULY 10	U.S. C. G. S. 8.5N, 83.0W Panama-Cost Rica Border H = 22 49 37.5 h = about 48 km Mag 4.1 (CGS)	JULY 11 U.S. C. G. S. 6.8N, 72.9W Colombia H = 14 18 29.5 h = about 164 km Mag 4.0 (CGS) Mould Bay eP 14 29 48 d i 14 30 32	JULY 12 Mould Bay eP 06 13 31 c	JULY 12 U.S. C. G. S. 7.0N, 73.2W Colombia H = 06 43 51.5 h = about 127 km Mag 4.5 (CGS) Edmonton iP 06 53 21 d Mould Bay eP 06 55 12 d i 07 00 25

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JULY 12

H = 06 54 41

Mag 2.8

Port Hardy

iP 06 55 09.2

eS 06 55 30.8

D = 175 km

JULY 12

U.S.C.G.S.

17.9S, 178.5W

Fiji Islands

H = 07 55 02.3

h = about 550 km

Mag 4.6 (CGS)

Edmonton

eP 08 07 03

JULY 12

50°40'N, 129°55'W

West of Port Hardy

H = 12 23 23

Mag 4.6

Alberni

eP 12 24 17

D = 388 km

Edmonton

eP 12 26 (01)

Mould Bay

eP 12 29 02

Penticton

eP 12 25 03.5

D = 774 km

Port Hardy

iP 12 23 50.8

iS 12 24 12.3

D = 176 km

Victoria

eP 12 24 35

eS 12 25 24

D = 536 km

Yellowknife

eP 12 27 00

JULY 12

50°35'N, 130°00'W

West of Port Hardy

H = 12 52 35

Mag 4.5

Alberni

eP 12 55 30.5

D = 398 km

Edmonton

eP 12 55 (13)

Mould Bay

eP 12 58 15.5

Penticton

eP 12 54 12.0

D = 779 km

Port Hardy

iP 12 53 04.1

eS 12 53 26.3

D = 182 km

Victoria

eP 12 55 40

D = 530 km

Yellowknife

eP 12 56 07

JULY 12

U.S.C.G.S.

50.3N, 129.6W

Near coast of Vancouver

Island

H = 14 03 38.3

h = about 33 km

Mag 4.8

Banff

e 14 05 52

Edmonton

eP 14 06 11 c

Mould Bay

eP 14 09 14 d

Penticton

eP 14 05 14

Port Hardy

iP 14 04 04

Victoria

eP 14 04 42 c

Yellowknife

eP 14 07 05

JULY 12

Canadian Arctic

H = 15 23 10.8

Mag 2.4

Resolute

P₁ 15 23 26.5

S₁ 15 23 38.5

D₁ = 98 km

JULY 12

U.S.C.G.S.

46.8N, 153.6E

Kurile Islands Region

H = 15 28 08.5

h = about 33 km

Mag 5 - 5 1/4 (PAL)

4.8 (CGS)

Alert

eP 15 36 58

Banff

eP 15 37 44

Edmonton

eP 15 37 44 c

Mould Bay

eP 15 36 19.5

Penticton

eP 15 37 37

Resolute

eP 15 37 (07)

Schefferville

eP 15 39 38

Yellowknife

eP 15 37 07

JULY 12

H = 15 54 13

Mag 2.4

Port Hardy

iP 15 54 36.5

eS 15 54 54.8

D = 150 km

DOMINION OBSERVATORIES

JULY 12

H = 16 08 13
Mag 2.3
Port Hardy
eP 16 08 34.8
eS 16 08 50.4
D = 128 km

JULY 12

Mould Bay
eP 16 31 17

JULY 12

Mould Bay
eP 16 44 58

JULY 12

H = 19 07 05
Mag 2.5
Penticton
iP 19 07 30.2
iS 19 07 49.6
D = 159 km

JULY 12

Mould Bay
eP 21 07 53

JULY 12

Mould Bay
iP 21 49 36.5 c

JULY 12

U.S.C.G.S.
33.9N, 140.7E
Off south coast of
Honshu, Japan
H = 23 42 03
h = about 73 km
Mag 4.4 (CGS)
Mould Bay
eP 23 51 47
i 23 52 09

JULY 12

U.S.C.G.S.
5.5S, 153.3E
New Britain
H = 23 51 16.0
h = about 56 km
Mag 5.0 (CGS)
Mould Bay
eP 21 04 31.5

JULY 12

H = 23 55 58
Mag 2.4
Penticton
eP 23 56 23.4
eS 23 56 43.0
D = 161 km

JULY 13

H = 00 02 25
Mag 3.0
Penticton
eP 00 03 06.4
eS 00 03 40.8
D = 282 km

JULY 13

49°45'N, 124°00'W
On Vancouver Island
H = 03 16 53
Mag 3.1

Penticton
eP 03 17 38.3
eS 03 18 13.7
D = 282 km
Port Hardy
eP 03 17 33.4
eS 03 18 07
D = 275 km

Victoria
iP 03 17 15.1
iS 03 17 32.2
D = 140 km

JULY 13

U.S.C.G.S.
29.6N, 51.0E
Near west coast of Iran
H = 08 24 24.7
h = about 44 km
Mag 5.0 (CGS)
Alert
i 08 34 55
Edmonton
eP 08 37 51 c
Mould Bay
eP 08 35 59 c
Schefferville
eP 08 36 34 c
Yellowknife
iP 08 37 12 d

JULY 13

U.S.C.G.S.
46.0N, 154.1E
Kurile Islands Region
H = 08 51 33.6
h = about 33 km
Mag 4.1 (CGS)
Edmonton
eP 09 01 (12)
Mould Bay
eP 08 59 49

JULY 13

U.S.C.G.S.
44.3N, 148.8E
Kurile Islands
H = 13 58 25.7
h = about 33 km
Mag 4.6 (CGS)
Edmonton
eP 14 08 31
Mould Bay
eP 14 07 02
i 14 07 14
Penticton
eP 14 08 24
Resolute
eP 14 07 48

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Schefferville eP 14 10 15	JULY 14 U.S. C. G. S. 30.5S, 177.2W	JULY 14 U.S. C. G. S. 10.4N, 62.6W
Yellowknife eP 14 07 55	Kermadec Islands Region H = 00 02 22.8 h = about 33 km Mag 5.3 (CGS)	Off coast of Northern Venezuela H = 05 41 43.0 h = about 24 km Mag 5 3/4 (BRK) 5 3/4 - 6 (PAL) 5.5 (CGS)
JULY 13 U.S. C. G. S. 24.3N, 122.3E	Halifax eP' 00 21 24	Alert eP 05 52 (52) i 05 53 05
Ryukyu Islands H = 14 06 23.7 h = about 33 km Mag 4.9 (CGS)	Mould Bay eP' 00 20 55	Banff eP 05 51 43
Edmonton eP 14 19 17	Penticton eP 00 15 40	Edmonton eP 05 51 39 d
Mould Bay eP 14 17 50.5	Victoria eP 00 15 29	Halifax eP 05 48 29 c
Penticton eP 14 19 14	JULY 14 U.S. C. G. S. 46.3N, 153.2E	London iP 05 48 48 d
JULY 13 Edmonton eP 14 40 (59)	Kurile Islands Region H = 01 31 10.0 h = about 33 km Mag 4.2 (CGS)	Mould Bay eP 05 53 06.5
JULY 13 U.S. C. G. S. 24.9N, 70.3E	Edmonton eP 01 40 (49)	Ottawa eP 05 48 49 d i 05 51 16
East Pakistan H = 19 08 39.1 h = about 33 km	Mould Bay eP 01 39 25	Penticton iP 05 51 54 d
Mould Bay eP 19 20 42 e 19 21 17	JULY 14 Mould Bay eP 05 28 50 i 05 28 54	Resolute eP 05 52 32 (d)
JULY 13 H = 21 38 51 Mag 2.1	JULY 14 U.S. C. G. S. 46.1N, 153.6E	Scarborough eP 05 48 47 c
Penticton eP 21 39 12.2 eS 21 39 28.0 D = 130 km	Kurile Islands Region H = 05 38 48.6 h = about 33 km Mag 4.4 (CGS)	Schefferville eP 05 49 54 (d)
	Mould Bay eP 05 47 05	Sept-Iles eP 05 49 17
		Seven Falls eP 05 48 55 c
		Victoria eP 05 52 09 d
		Yellowknife eP 05 52 14

DOMINION OBSERVATORIES

<p>JULY 14 U. S. C. G. S. 10.4N, 62.5W Near coast of Venezuela H= 06 40 09.6 h = about 43 km Mag 4.3 (CGS) Edmonton eP 06 50 05 c Mould Bay eP 06 51 32</p>	<p>JULY 14 U. S. C. G. S. 30.3N, 78.5E Northern India H = 14 48 28.4 h = about 33 km Mag 4.8 (CGS) Mould Bay eP 14 59 56 c</p>	<p>JULY 14 Mould Bay eP 21 41 40.5</p> <p>JULY 15 U. S. C. G. S. 4.4N, 77.5W Near coast of Colombia H = 00 31 50.4 h = about 47 km Mag 4.4 (CGS) Mould Bay eP 00 43 34</p>
<p>JULY 14 U. S. C. G. S. 29.5N, 50.8E Persian Gulf H = 07 46 21.4 h = about 33 km Mould Bay eP 07 57 58</p>	<p>JULY 14 U. S. C. G. S. 39.4S, 174.9E North Island, New Zealand H = 17 06 38.6 h = about 189 km Mag 6.0 (CGS) Mould Bay eP' 17 25 09 c Resolute eP' 17 25 19</p>	<p>JULY 15 U. S. C. G. S. 1.6N, 127.1E Halmahera Region H = 05 19 32 h = about 33 km Mould Bay eP 05 32 52</p>
<p>JULY 14 U. S. C. G. S. 36.1N, 70.6E Hindu Kush H = 10 51 42.7 h = about 120 km Mag 5.1 (CGS) Edmonton eP 11 04 34 Mould Bay eP 11 02 29 c i 11 02 59 Yellowknife eP 11 03 50</p>	<p>JULY 14 Schefferville e(P) 17 30 49 Seven Falls eP 17 31 16</p>	<p>JULY 15 U. S. C. G. S. 51.8N, 176.8W Andreanof Islands, Aleutian Islands H = 06 28 21.7 h = about 33 km Mag 4.6 (CGS) Banff eP 06 35 31 Edmonton eP 06 35 34 (c) Mould Bay eP 06 34 55 c Penticton iP 06 35 19 c</p>
<p>JULY 14 U. S. C. G. S. 30.2S, 177.4W Kermadec Islands H = 14 28 22.1 h = about 42 km Mag 5.1 (CGS) Mould Bay eP' 14 46 52</p>	<p>JULY 14 H = 21 13 22 Mag 2.1 Penticton eP 21 13 47.7 iS 21 14 07.1 D = 157 km</p>	<p>JULY 15 U. S. C. G. S. 61.7N, 134.9W Yukon H = 08 36 41 h = about 33 km Mag 4.2 (CGS)</p>

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Edmonton e 08 40 59 c	Resolute eP 16 47 01 (d)	JULY 16 U.S. C. G. S.
Mould Bay eP 08 40 20 d	Yellowknife e 16 45 45	15.4S, 173.3W
i 08 40 36.5		Samoa Islands Region
Penticton i 08 40 44	JULY 15 H = 18 46 43	H = 07 59 52.3
	Mag 2.9	h = about 33 km
JULY 15	Penticton eP 18 47 24.2	Mag 4.4 (CGS)
U.S. C. G. S.	eS 18 47 58.6	Edmonton eP 08 12 28 d
55.6N, 162.0E	D = 282 km	Penticton eP 08 12 01
Kamchatka		JULY 16
H = 08 41 07.5	JULY 15	Mould Bay
h = about 60 km	U.S. C. G. S.	eP 09 28 37 c
Mag 5.2 (CGS)	53.2N, 162.9E	
Edmonton eP 08 49 29 c	Near east coast of Kamchatka	JULY 16
Mould Bay eP 08 47 49.5 d	H = 19 22 17.9	Mould Bay
Penticton eP 08 49 20	h = about 33 km	eP 13 11 52
Resolute eP 08 48 43 d	Mag 4.7 (CGS)	
Schefferville eP 08 51 29	Mould Bay eP 19 29 19.5	JULY 16
Sept-Iles eP 08 51 56	JULY 15	U.S. C. G. S.
Yellowknife eP 08 48 37	Edmonton eP 19 42 39 (d)	43.1N, 41.5E
		Georgia S. S. R.
JULY 15	JULY 16	H = 18 27 18.4
U.S. C. G. S.	H = 00 42 39.5	h = about 33 km
62.0N, 134.4W	Mag 2.6	Mag 5.8 (CGS)
Yukon	Penticton iP 00 43 05.0	Alert eP 18 36 05 c
H = 16 42 34.8	iS 00 43 24.4	S 18 43 11
h = about 33 km	D = 159 km	Banff eP 18 39 47
Mag 3.8 (CGS)	JULY 16	Halifax eP 18 38 30 (c)
Edmonton e 16 46 32 c	Mould Bay eP 06 08 05 c	London iP 18 39 26 c
Mould Bay eP 16 46 08	JULY 16	Mould Bay eP 18 37 24 c
i 16 49 55	U.S. C. G. S.	Ottawa eP 18 39 02
Penticton eP 16 46 14	15.4S, 173.3W	Penticton iP 18 39 59 c
Resolute	Samoa Islands Region	Resolute eP 18 37 16 c
		Schefferville

DOMINION OBSERVATORIES

Schefferville iP 18 37 56 c	Mould Bay eP 22 21 31 c	JULY 17 Yellowknife eP 08 55 54
Sept-Iles eP 18 38 16	Seven Falls eP 22 22 47	
Seven Falls eP 18 38 41 (d)	JULY 16 H = 23 32 58	JULY 17 U.S.C.G.S. 25.4S, 111.6W
Victoria eiP 18 40 05 c	Mag 2.4	Easter Island Region H = 10 34 36.9
Yellowknife iP 18 38 46 d	Penticton iP 23 33 26.2	h = about 33 km
	iS 23 33 47.4	Mag 4.7 (CGS)
JULY 16	D = 174 km	Edmonton eP 10 46 35 d
Yellowknife eP 18 58 38	JULY 17	Penticton eP 10 46 15
JULY 16	Edmonton eP 01 11 08 c	Yellowknife eP 10 47 27
Seven Falls eP 19 14 54	Mould Bay eP 01 09 29	
JULY 16	JULY 17	JULY 17
U.S.C.G.S. 30.6S, 177.2W	50°23'N, 121°05'W	U.S.C.G.S. 43.1N, 41.5E
Kermadec Islands H = 19 08 29.2	North of Vancouver H = 03 15 15	Georgia S.S.R. H = 11 57 06.7
h = about 41 km	Mag 2.6	h = about 33 km
Mag 5.0 (CGS)	Penticton eP 03 15 40.4	Mag 5.3 (CGS)
Resolute eP' 19 27 (09)	eS 03 15 59.8	Alert eP 12 05 55
	D = 159 km	Banff iP 12 09 34
JULY 16	Victoria eP 03 15 52.3	Edmonton eP 12 09 23 c
H = 21 42 05	eS 03 16 30.0	Mould Bay iP 12 07 13.5 c
Mag 2.4	D = 268 km	Penticton iP 12 09 48 c
Penticton eP 21 42 30.5	JULY 17	Schefferville eP 12 07 44 c
eS 21 42 49.9	U.S.C.G.S. 46.9S, 33.3E	Seven Falls iP 12 08 30 c
D = 160 km	Prince Edward Islands Region H = 03 24 37.4	Victoria eP 12 09 54
JULY 16	h = about 33 km	Yellowknife eP 12 08 35
U.S.C.G.S. 43.3N, 41.6E	Mould Bay eP' 03 44 20 (d)	
Georgia S.S.R. H = 22 11 23.0	Resolute eP' 03 44 10 d	
h = about 17 km		
Mag 4.9 (CGS)		
Edmonton eP 22 23 40 (c)		

SEISMOLOGICAL BULLETIN - 1963

JULY 17

U.S.C.G.S.
 49.5N, 156.3E
 Kurile Islands Region
 H = 15 07 22.3
 h = about 78 km
 Mag 4.7 (CGS)
 Edmonton
 eP 15 16 31
 Mould Bay
 eP 15 15 01
 Yellowknife
 eP 15 15 51

JULY 17

H = 18 30 24
 Mag 2.2
 Pentiction
 eP 18 30 49.0
 eS 18 31 08.6
 D = 160 km

JULY 17

Mould Bay
 eP 21 02 39

JULY 18

49° 15'N, 128° 45'W
 West of Vancouver Island
 h = 00 04 05
 Mag 4.6
 Alberni
 iP 00 04 46.4
 D = 285 km
 Banff
 eP 00 06 14.7
 Edmonton
 iP 00 06 37
 Halifax
 eP 00 12 10 d
 London
 iP 00 10 42 d
 Mould Bay
 eP 00 09 51 d
 Ottawa
 eP 00 11 03

Pentiction

eP 00 05 34.3
 D = 668 km
 Port Hardy
 iP 00 04 35.6
 iS 00 04 59.4
 D = 196 km
 Schefferville
 eP 00 11 19 c
 Seven Falls
 eP 00 11 23 d
 Victoria
 iP 00 04 57.5
 iS 00 05 34
 D = 398 km

JULY 18

Mould Bay
 eP 00 29 06

JULY 18

U.S.C.G.S.
 61.0S, 22.3W
 Sandwich Islands Region
 H = 04 58 09.2
 h = about 33 km
 Mag 6.0 (CGS)
 Alert
 eP' 05 17 39
 Edmonton
 eP' 05 17 11
 Mould Bay
 eP' 05 17 46 c
 i 05 17 53
 Ottawa
 e 05 17 43
 Pentiction
 eP' 05 17 07
 Resolute
 iP' 05 17 35 c
 Schefferville
 eP' 05 16 55
 Seven Falls
 e 05 17 46 c
 Yellowknife
 eP' 05 17 30

JULY 18

U.S.C.G.S.
 18.5S, 69.3W
 Northern Chile
 H = 05 25 04.3
 h = about 72 km
 Mag 4.9 (CGS)
 Edmonton
 eP 05 37 12
 Pentiction
 iP 05 37 13 d
 Schefferville
 eP 05 36 29 d
 Yellowknife
 iP 05 37 50 d

JULY 18

U.S.C.G.S.
 22.5S, 67.0W
 Jujuy Prov.,
 Argentina
 H = 11 15 11.3
 h = about 258 km
 Mag 4.6 (CGS)
 Edmonton
 eP 11 27 18 d
 Pentiction
 iP 11 27 19

JULY 18

Mould Bay
 eP 20 00 56.5

JULY 18

Mould Bay
 eP 20 34 56

JULY 18

H = 23 01 18
 Mag 2.7
 Pentiction
 eP 23 01 45.0
 eS 23 02 05.8
 D = 170 km

DOMINION OBSERVATORIES

JULY 19
Mould Bay
eP 00 08 17 d

JULY 19
Mould Bay
eP 00 29 12

JULY 19
Mould Bay
eP 01 30 21
iP 01 32 14.5

JULY 19
Mould Bay
iP 01 41 35 c

JULY 19
U.S.C.G.S.
7.1N, 33.6W
Atlantic Ocean
H = 04 12 10.3
h = about 33 km
Mag 4.4 (CGS)
Edmonton
eP 04 24 (09)
Mould Bay
eP 04 24 31.5

JULY 19
U.S.C.G.S.
43.4N, 8.2E
Ligurian Sea
H = 05 45 28.0
h = about 33 km
Mag 5 1/4 (PAL), 5.5(CGS)
Alert
eP 05 53 (40)
Banff
eP 05 57 00
Edmonton
eP 05 56 46 c
Halifax
eP 05 54 21 c
London
eP 05 55 45

Mould Bay
eP 05 55 05 c

Ottawa
eP 05 55 14 c

Resolute
eP 05 54 36

Scarboro
eP 05 55 35

Schefferville
eP 05 54 03

Seven Falls
eP 05 54 46

Victoria
iP 05 57 31.5 d

Yellowknife
eP 05 56 06

JULY 19
U.S.C.G.S.
43.3N, 8.1E
Ligurian Sea
H = 05 46 05.2
h = about 33 km
Mag 5.6 (CGS)
Mould Bay
eP 05 55 (40)
Ottawa
eP 05 55 51 c
Seven Falls
iP 05 55 24

JULY 19
U.S.C.G.S.
36.3N, 141.0E
Near East Coast of Honshu,
Japan
H = 09 00 44.8
h = about 70 km
Mag 4.6 (CGS)
Alert
eP 09 10 52 c
Edmonton
eP 09 11 51 (c)
Mould Bay
iP 09 10 27 c
Resolute
eP 09 11 08 c

Schefferville
eP 09 13 20

JULY 19
U.S.C.G.S.
52.0N, 172.5W
Andreanof Islands,
Aleutian Islands.
H = 11 46 39.1
h = about 50 km
Mag 4.4 (CGS)
Edmonton
eP 11 53 29 d
Mould Bay
eP 11 53 00
i 11 55 50

JULY 19
Edmonton
eP 19 00 43 d
Mould Bay
iP 18 59 55 d
Penticton
iP 19 01 10
Resolute
eP 19 00 31
Yellowknife
eP 19 00 23 c

JULY 19
H = 19 10 04
Mag 2.2
Penticton
eP 19 10 29.7
iS 19 10 49.1
D = 159 km

SEISMOLOGICAL BULLETIN - 1963

JULY 19

U.S.C.G.S.

43.4N, 146.3E

Kurile Islands Region

H = 19 13 55.7

h = about 43 km

Mag 4.4 (CGS)

Edmonton

eP 19 24 14

Mould Bay

eP 19 22 42 d

Resolute

eP 19 23 28

JULY 19

H = 20 20 17

Mag 2.5

Penticton

iP 20 20 33.0

iS 20 20 49.9

D = 98 km

JULY 19

U.S.C.G.S.

45.1N, 110.0W

Southern Montana

H = 20 56 43.2

h = about 33 km

Mag 3.4 (CGS)

Penticton

eP 20 58 40

JULY 19

Mould Bay

eP 22 42 22 c

JULY 19

H = 23 02 23

Mag 2.2

Penticton

eP 23 02 47.2

eS 23 03 05.6

D = 151 km

JULY 19

H = 23 19 35

Mag 2.5

Penticton

eP 23 20 00.9

eS 23 20 20.5

D = 160 km

JULY 20

U.S.C.G.S.

65.2N, 133.7W

Yukon

H = 00 11 35.0

h = about 33 km

Mag 4.6 (CGS)

Alert

eP 00 16 43

Edmonton

eP 00 15 11 (d)

Penticton

eP 00 15 39

Port Hardy

eP 00 15 06

Schefferville

eP 00 18 12

Seven Falls

eP 00 18 (46)

Victoria

eP 00 15 38

Yellowknife

iP 00 13 38 c

JULY 20

U.S.C.G.S.

43.4N, 41.2E

Georgia S.S.R.

H = 00 51 55.7

h = about 33 km

Mag 4.8 (CGS)

Edmonton

eP 01 04 10 c

Mould Bay

eP 01 02 00.5

Penticton

eP 01 04 34

Yellowknife

eP 01 03 22

JULY 20

Mould Bay

eP 01 14 52.5

JULY 20

Mould Bay

eP 02 13 (53)

i 02 14 26.5

JULY 20

U.S.C.G.S.

47.2N, 152.2E

Kurile Islands Region

H = 02 13 45.3

h = about 108 km

Mag 4.4 (CGS)

Edmonton

eP 02 23 17

Mould Bay

eP 02 21 46 d

Penticton

eP 02 23 10

Resolute

eP 02 22 34 d

Yellowknife

eP 02 22 37 c

JULY 20

Mould Bay

eP 05 09 31

JULY 20

Mould Bay

eP 05 34 (15)

DOMINION OBSERVATORIES

JULY 20	Penticton	JULY 20
U.S.C.G.S.	eP' 06 55 16	U.S.C.G.S.
14.4N, 142.9E	Resolute	45.1N, 111.3W
Mariana Islands	eP' 06 56 00 (c)	Southwestern Montana
H = 05 26 19.1	Schefferville	H = 10 41 02.5
h = about 33 km	eP' 06 56 (08)	h = about 33 km
Mag 5.1 (CGS)	Yellowknife	Mag 3.4 (CGS)
Edmonton	eP' 06 55 36	Edmonton
eP 05 39 02		eP 10 43 (24)
Mould Bay		
eP 05 38 19		
JULY 20	JULY 20	JULY 20
U.S.C.G.S.	U.S.C.G.S.	U.S.C.G.S.
51.3N, 157.9E	10.5N, 62.5W	68.8N, 4.6W
Rat Islands	Near Coast of Venezuela	Jan Mayen
Aleutian Islands	H = 07 34 38.7	Island Region
H = 05 35 33.6	h = about 56 km	H = 15 07 58.2
h = about 65 km	Mag 4.0 (CGS)	h = about 49 km
Mag 4.2 (CGS)	Edmonton	Mag 4.8 (CGS)
Mould Bay	eP 07 44 33 c	Alert
eP 05 42 57 c	Mould Bay	eP 15 12 10
	eP 07 46 00	Edmonton
JULY 20	JULY 20	eP 15 16 30 c
Yellowknife	U.S.C.G.S.	Mould Bay
eP 06 38 34	32.4N, 140.5E	eP 15 14 02 c
	South of Honshu, Japan	Penticton
	H = 07 38 50.9	eP 15 17 09
	h = about 124 km	Resolute
	Mag 4.4 (CGS)	eP 15 13 (32)
JULY 20	Mould Bay	Yellowknife
U.S.C.G.S.	eP 07 48 54 (d)	iP 15 15 28 d
57.6S, 148.5E	Resolute	
Macquarie Island Region	eP 07 49 (33)	JULY 20
H = 06 36 10.8		Penticton
h = about 33km	JULY 20	eP 16 31 06
Mag 6 (PAL), 5.6 (CGS)	49°00'N, 128°40'W	
Alert	West of Vancouver Island	JULY 20
eP' 06 56.0	H = 08 54 26	Mould Bay
Edmonton	Mag 3.0	eP 17 30 56.5
eP' 06 55 (20)	Alberni	
Halifax	eP 08 54 10.5	JULY 20
eP' 06 56 09 d	Port Hardy	Mould Bay
London	eP 08 54 56.5	eP 19 31 49
eP' 06 55 47 d	D = 212 km	
Mould Bay	Victoria	
eP' 06 55 43.5 c	eP 08 55 44	
Ottawa	D = 584 km	
eP' 06 56 (00)		

SEISMOLOGICAL BULLETIN - 1963

JULY 21 Mould Bay eP 01 02 (27) i 01 02 39	Alert P ₁ 08 15 09 S ₁ 08 15 28 D = 156 km	JULY 21 Edmonton eP 20 07 (11)
JULY 21 Mould Bay eP 02 37 00	JULY 21 U.S.C.G.S. 56.1S, 27.4W Sandwich Island Region H = 11 03 20 h = about 80 km Mag 5.5 (CGS) Mould Bay eP' 11 22 43 (d)	JULY 21 U.S.C.G.S. 55.4N, 155.7W Kodiak Island Region H = 20 29 38.3 h = about 33 km Mag 3.7 (CGS) Edmonton eP 20 34 56 Mould Bay eP 20 35 00
JULY 21 Mould Bay eP 05 41 (50) i 05 42 10	JULY 21 U.S.C.G.S. 37.2N, 141.7E Near East Coast of Honshu, Japan H = 12 45 07 h = about 33 km Mag 3.9 (CGS) Mould Bay eP 12 54 45.5	JULY 21 H = 21 45 48 Mag 2.4 Penticton iP 21 46 13.7 iS 21 46 33.1 D = 159 km
JULY 21 U.S.C.G.S. 14.8N, 56.1E Arabian Sea H = 06 01 57.3 h = about 33 km Alert eP 06 13 58 Mould Bay eP 06 14 49	JULY 21 U.S.C.G.S. 9.7N, 122.3E Negros, Philippine Islands H = 14 45 07.1 h = about 54 km Mould Bay eP 14 57 48 (c)	JULY 22 U.S.C.G.S. 13.6N, 89.9W El Salvador H = 00 16 33.1 h = about 34 km Mag 4.0 (CGS) Mould Bay eP 00 27 05
JULY 21 U.S.C.G.S. 17.8N, 46.5W North Atlantic Ocean H = 06 47 32.2 h = about 33 km Mag 4.8 (CGS) Alert iP 06 58 11 Edmonton eP 06 57 52 Mould Bay eP 06 58 36 Penticton eP 06 58 (16)	JULY 21 U.S.C.G.S. 36.5N, 69.9E Hindu Kush Region H = 18 48 30.4 h = about 112 km Mag 4.0 (CGS) Mould Bay eP 18 59 14.5	JULY 22 U.S.C.G.S. 6.1S, 148.9E New Britain H = 00 29 14.9 h = about 59 km Mag 5 (BRK), 5.1 (CGS) Edmonton eP 00 42 (57) Mould Bay eP 00 42 38
JULY 21 Canadian Arctic H = 08 14 44 Mag 2.7		

DOMINION OBSERVATORIES

Ottawa eP' 00 48 09	JULY 22 U.S.C.G.S. 7.7N, 126.8E	Mould Bay eP 12 49 42
Schefferville eP' 00 48 08 d	Near Coast of Mindanao, Philippine Islands	Resolute eP 12 50 28
JULY 22 Mould Bay eP 02 04 05	H = 19 22 22.3 h = about 125 km Mould Bay eP 19 35 01	JULY 23 H = 19 12 47 Mag = 2.3 Penticton iP 19 13 18.2 iS 19 13 42.5 D = 198 km
JULY 22 Mould Bay eP 03 38 47.5	JULY 23 U.S.C.G.S. 41.5N, 141.9E	JULY 23 U.S.C.G.S. 50.0N, 176.3W
JULY 22 Mould Bay eP 07 57 07	Tsugaru Strait H = 06 17 51.5 h = about 91 km Mag 4.4 (CGS)	Andreanof Islands Region, Aleutian Islands.
JULY 22 Edmonton eP 08 33 (37)	Alert eP 06 27 20 (c)	H = 21 51 15.5 h = about 77 km
Mould Bay eP 08 32 49.5	Edmonton eP 06 28 27 c	Mould Bay eP 21 57 55.5
i 08 33 24	Mould Bay iP 06 26 54.5 c	JULY 23 H = 22 18 32 Mag = 2.0
Yellowknife eP 08 32 48	Penticton iP 06 28 22	Penticton eP 22 18 58.2 eS 22 19 18.0 D = 162 km
JULY 22 Mould Bay eP 10 53 37.5	Resolute eP 06 27 37	JULY 23 Penticton eP 23 34 16
JULY 22 Mould Bay iP 11 42 20.5	Schefferville eP 06 29 58 c	JULY 24 Alert eP 06 21 45
JULY 22 U.S.C.G.S. 3.2S, 76.0W	Victoria eP 06 28 09	Edmonton eP 06 21 31
Northwestern Colombia H = 13 45 41.2 H = about 149 km Mag 3.8 (CGS)	Yellowknife eP 06 27 49	Mould Bay eP 06 21 59 c
Mould Bay eP 13 57 51	JULY 23 Victoria eP 11 28 32	Resolute eP 06 21 (41)
i 13 58 25	JULY 23 U.S.C.G.S. 43.1N, 147.5E	
	Kurile Islands Region H = 12 40 55.4 h = about 33 km Mag 4.0 (CGS)	

SEISMOLOGICAL BULLETIN - 1963

JULY 24	JULY 24	Penticton
57.6N, 150.5W	Mould Bay	eP 22 18 41.5
Kodiak Island	eP 19 14 46	eS 22 19 00.9
Region, Alaska.	Resolute	D = 159 km
H = 09 49 12.6	eP 19 14 (55)	
h = about 33 km		
Mag 4.0 (CGS)	JULY 24	JULY 24
Edmonton	Mould Bay	Penticton
eP 09 54 01	iP 19 17 24	eP 23 23 43
Mould Bay		
iP 09 54 08	JULY 24	JULY 25
	U.S.C.G.S.	U.S.C.G.S.
JULY 24	9.0S, 158.2E	6.8N, 73.0W
U.S.C.G.S.	Solomon Islands	Northern Colombia
24.6N, 122.0E	Region.	H = 07 04 21.9
Near East Coast	H = 19 04 32.5	h = about 152 km
of Formosa	h = about 33 km	Mag 5.2 (CGS)
H = 11 32 17.7	Mag 5.8 (CGS)	Alert
h = about 33 km	Penticton	iP 07 15 52 c
Mag 5.3 (CGS)	eP 19 17 36	Banff
Alert	Yellowknife	eP 07 13 47
eP 11 43 33	eP 19 17 56	Halifax
i 11 43 48		iP 07 11 33 c
Banff	JULY 24	London
eP 11 45 (12)	H = 19 12 29	iP 07 11 18 c
Edmonton	Mag 2.2	Mould Bay
eP 11 45 10 c	Penticton	iP 07 15 41 c
Mould Bay	iP 19 12 56.0	Penticton
iP 11 43 42.5	iS 19 13 16.6	iP 07 13 58 c
Penticton	D = 168 km	Resolute
eP 11 45 06		eP 07 15 12
Resolute	JULY 24	Scarboro
eP 11 44 14	H = 21 30 12	iP 07 11 21 c
Victoria	Mag = 2.1	Schefferville
eP 11 44 58	Penticton	iP 07 12 48
	eP 21 30 37.0	Seven Falls
JULY 24	eS 21 30 56.2	iP 07 11 47 c
U.S.C.G.S.	D = 158 km	Victoria
36.1N, 136.8E		eP 07 14 10 (c)
Honshu, Japan	JULY 24	Yellowknife
H = 11 50 31.1	Seven Falls	iP 07 14 36 c
h = about 33 km	eP 22 00 05	
Mag 4.1 (CGS)		
Mould Bay	JULY 24	
eP 12 00 24.5	H = 22 18 16	
	Mag 2.2	

DOMINION OBSERVATORIES

JULY 25

H = 14 28 06
Mag = 2.4

Penticton
eP 14 28 46.3
eS 14 29 20.2
D = 278 km

JULY 25

U.S.C.G.S.
8.1N, 123.5E
Mindanao, Philippine
Islands.

H = 15 17 17.9
h = about 637 km
Mag 4.4 (CGS)
Mould Bay
eP 15 29 05 (c)

JULY 25

H = 18 26 18
Mag 2.9
Penticton
eP 18 26 50.0
eS 18 27 15.4
D = 208 km

JULY 25

H = 18 53 10
Mag = 2.7
Penticton
iP 18 53 35.0
iS 18 53 54.2
D = 157 km

JULY 25

Mould Bay
eP 18 55 06.5

JULY 25

Mould Bay
eP 21 38 29

JULY 25

Mould Bay
eP 21 45 50

Resolute

eP 21 46 17

JULY 26

H = 01 54 04
Mag 2.2
Penticton
eP 01 54 29.8
eS 01 54 49.4
D = 161 km

JULY 26

U.S.C.G.S.
42.1N, 21.5E
Southern Yugoslavia
H = 04 17 16.7
h = about 33 km
Mag 5 1/2 - 5 3/4 (BRK),
5 1/2 (PAL), 5.4 (CGS)

Alert

eP 04 25 52

Halifax

iP 04 27 16 d

London

iP 04 28 30 d

Mould Bay

iP 04 27 17 d

Penticton

iP 04 29 (38)d

Resolute

eP 04 26 55 d

Scarboro

iP 04 28 21(d)

Schefferville

eP 04 26 53

Seven Falls

eP 04 27 36 c

Yellowknife

iP 04 28 26 c

JULY 26

Victoria
eP_n 04 29 49 d
eP₁ 04 29 53 c

JULY 26

U.S.C.G.S.
42.1N, 21.6E
Southern
Yugoslavia
H = 04 53 13.8
h = about 33 km
Mag 4.2 (CGS)
Mould Bay
eP 05 03 14

JULY 26

Mould Bay
eP 05 51 54

JULY 26

H = 08 41 09
Mag 3.0
Penticton
eP 08 41 51
eS 08 42 26
D = 286 km

JULY 26

H = 08 45 02
Mag 3.6
Penticton
eP 08 45 50.1
eS 08 46 26.4
D = 295 km

JULY 26

U.S.C.G.S.
39.6N, 15.2E
Mediterranean Sea
H = 09 26 46.4
h = about 337 km
Mag 4.2 (CGS)
Mould Bay
eP 09 36 26
Victoria
eP 09 38 46
Yellowknife
iP 09 37 27 c

SEISMOLOGICAL BULLETIN - 1963

JULY 26	Victoria	JULY 27
U.S.C.G.S.	eP 23 59 48	U.S.C.G.S.
28.5N, 112.0W	Yellowknife	43.9N, 128.3W
Gulf of California	iP 24 00 15 (c)	Off Coast of Oregon
H = 13 40 29.5		H = 06 27 03.0
h = about 33 km		h = about 33 km
Mag 4.0 (CGS)	JULY 27	Mag 4.5 (CGS)
Mould Bay	Mould Bay	Mould Bay
eP 13 49.0	iP 02 29 28 (d)	eP 06 33 33
		Yellowknife
		eP 06 31 37
JULY 26	Canadian Arctic	JULY 27
U.S.C.G.S.	H = 02 33 27.2	U.S.C.G.S.
36.9N, 29.1E	Mag 2.1	18.4N, 105.7W
Dodecanese Islands	Resolute	Off Coast of Jalisco,
H = 19 46 33.2	P ₁ 02 33 41	Mexico.
h = about 33 km	S ₁ 02 33 51.5	H = 09 21 57
Mould Bay	D = 86 km	h = about 33 km
eP 19 57 13	JULY 27	Mag 3.8 (CGS)
	U.S.C.G.S.	Mould Bay
	43.5N 8.4E	eP 09 31 48
	Ligurian Sea	
	H = 05 58 23.4	JULY 27
	h = about 33 km	Mould Bay
	Mag 5.1 (CGS)	iP 10 17 52 c
	Alert	
	eP 06 06 34 c	JULY 27
	Banff	Mould Bay
	eP 06 09 56	iP 10 17 52 c
	Halifax	JULY 27
	iP 06 07 16 d	U.S.C.G.S.
	Mould Bay	34.3N, 23.1E
	eP 06 08 00.5	Crete
	Ottawa	H = 13 44 32.9
	eP 06 08 09 c	h = about 33 km
	Penticton	Mag 4.3 (CGS)
	iP 06 10 15 c	Mould Bay
	Resolute	eP 13 55 (25)
	eP 06 07 31(c)	JULY 27
	Schefferville	U.S.C.G.S.
	eP 06 07 01 (c)	35.9S, 102.7W
	Seven Falls	Easter Island Region
	eP 06 07 42 d	H = 16 47 03.7
	Victoria	h = about 33 km
	eP 06 10 25	Mag 4.6 (CGS)
	Yellowknife	Penticton
	iP 06 09 02 d	eP 16 59 44
JULY 26		
U.S.C.G.S.		
9.7S, 78.5W		
Near Coast of Peru		
H = 23 48 26.5		
H = about 62 km		
Mag 4.9 (CGS)		
Mould Bay		
iP 24 01 16 (d)		
Ottawa		
eP 23 57 52 d		
Penticton		
eP 23 59 28		
Resolute		
eP 24 00 (55)		
Schefferville		
eP 23 59 02 d		
Seven Falls		
eP 23 58 08		

DOMINION OBSERVATORIES

JULY 27

Edmonton
eP 20 12 (52)
Mould Bay
eP 20 12 47
Resolute
eP 20 13 04 (d)

JULY 27

H = 21 47 53
Mag 2.2
Penticton
eP 21 48 18.3
eS 21 48 37.9
D = 160 km

JULY 27

U.S.C.G.S.
31.0N, 140.3E
South of Honshu Japan
H = 21 26 44.8
h = about 100 km
Mag 4.2 (CGS)
Mould Bay
eP 21 36 40
i 21 37 18
Resolute
eP 21 37 38

JULY 27

U.S.C.G.S.
13.2N, 144.5E
Mariana Islands
H = 22 19 52.0
h = about 87 km
Mag 4.3 (CGS)
Mould Bay
eP 22 31 45.5
Resolute
eP 22 32 19

JULY 27

H = 23 28 21
Mag 3.0
Penticton
eP 23 29 07.5
iS 23 29 47.4
D = 327 km

JULY 28

U.S.C.G.S.
51.7N, 174.5W
Andreanof Islands,
Aleutian Islands
H = 04 17 50.7
h about 33 km
Mag 3.8 (CGS)

Mould Bay

eP 04 24 17.5

JULY 28

Edmonton
eP 06 03 02c

JULY 28

H = 06 15 21
Mag 2.0
Penticton
eP 06 15 40.0
iS 06 16 25.5
D = 419 km

JULY 28

U.S.C.G.S.
11.3S, 112.1E
Off Coast of Java
H = 07 55 21.9
h about 21 km
Mag 5.1 (CGS)
Banff
eP' 08 14 23
Edmonton
eP' 08 14 23d
Halifax
iP' 08 15 04 (c)
London
eP' 08 15 03

Mould Bay

eP' 08 13 52
Penticton
eP' 08 14 20
Resolute
eP' 08 14 03
Scarboro
eP' 08 15 03
Schefferville
eP' 08 14 (43)
Seven Falls
eP' 08 14 42 d
Yellowknife
iP' 08 14 11 c

JULY 28

U.S.C.G.S.
19.2S, 71.9W
Off Coast of Northern
Chile
H = 09 37 18
h about 110 km
Mag 4.3 (CGS)
Edmonton
eP 09 49 14 d

JULY 28

Edmonton
eP 11 33 15 d

JULY 28

U.S.C.G.S.
6.7N, 82.5W
South of Panama
H = 11 43 16.4
h about 47 km
Mag 4.1 (CGS)
Edmonton
eP 11 52 28 c

SEISMOLOGICAL BULLETIN - 1963

JULY 28

U.S.C.G.S.
52.6N, 158.9E
Kamchatka
H = 12 11 27.9
h about 33 km
Mag 4.8 (CGS)
Edmonton
eP 12 20 18 c
Mould Bay
iP 12 18 42.5 c
Penticton
eP 12 20 12
Resolute
eP 12 19 34

JULY 28

U.S.C.G.S.
72.0N, 0.0
Jan Mayen Island Region
H = 13 25 18.1
h about 33 km
Mag 4.5 (CGS)
Mould Bay
eP 13 31 (06)

JULY 28

U.S.C.G.S.
51.9N, 174.3W
Andreanof Islands,
Aleutian Islands
H = 14 42 42.7
h about 33 km
Mag 4.0 (CGS)
Edmonton
eP 14 49 45 c
Mould Bay
eP 14 49 10 (d)

JULY 28

U.S.C.G.S.
51.9N, 174.2W
Andreanof Islands,
Aleutian Islands
H = 14 48 07.3
h about 33 km
Mag 4.0 (CGS)
Edmonton
eP 14 55 09 c
Ottawa
eP 14 58 16

JULY 28

U.S.C.G.S.
51.8N, 174.4W
Andreanof Islands,
Aleutian Islands
H = 16 22 44.7
h about 33 km
Mag 4.0 (CGS)
Edmonton
eP 16 29 47

JULY 28

U.S.C.G.S.
4.9S, 152.7E
New Ireland Region
H = 16 32 25.0
h about 69 km
Mag 4.9 (CGS)
Mould Bay
iP 16 45 38 (d)

JULY 28

U.S.C.G.S.
46.6N, 153.1E
Kurile Islands Region
H = 18 51 36.7
h about 33 km
Mag 5.0 (CGS)
Alert
iP 19 00 29 c
Edmonton
eP 19 01 16 c
Mould Bay
iP 18 59 48.5 c

Penticton

eP 19 01 07
Resolute
eP 19 00 36
Schefferville
eP 19 03 (10)
Victoria
eP 19 00 59
Yellowknife
iP 19 00 38 d

JULY 29

Schefferville
eP 05 53 46
Seven Falls
eP 05 54 10

JULY 29

U.S.C.G.S.
27.8N, 55.6E
Southern Iran
H = 06 10 22.6
h about 37 km
MAG 5.2 (CGS)

Alert

iP 06 21 48 c
Edmonton
eP 06 24 02 c
Mould Bay
iP 06 22 09 c
Resolute
eP 06 22 (08)
Schefferville
eP 06 22 52 c
Seven Falls
eP 06 23 26
Yellowknife
iP 06 23 20 d

JULY 29

Mould Bay
eP 07 49 08.5

DOMINION OBSERVATORIES

JULY 29

U.S.C.G.S.
79.3N, 0.6W
Svalbard Region
H = 12 43 12.6
h about 33 km
MAG 4.2 (CGS)
Alert
eP 12 45 30
Mould Bay
eP 12 47 55.5
Resolute
eP 12 47 (36)

JULY 29

Canadian Arctic
H = 13 32 49.5
MAG 3.7
Resolute
Pn 13 34 20.5
13 35 31
Lg 13 36 07
D = 700 km

JULY 29

U.S.C.G.S.
30.2S, 177.3W
Kermadec Islands
H = 20 14 07.3
h about 39 km
MAG 6 1/2-6 3/4 (BKS)
5.7 (CGS)
Alert
eP' 20 32 30
Mould Bay
eP' 20 32 38
Penticton
eP 20 27 23
Port Hardy
iP 20 27 13 d
Resolute
eP' 20 32 (46)
Schefferville
eP' 20 33 (05)
Victoria
eP 20 27 13

JULY 29

U.S.C.G.S.
29.7S, 177.0W
Kermadec Islands
H = 20 16 36.9
h about 33 km
MAG 5.5 (CGS)
Halifax
eP' 20 35 38
Mould Bay
eP' 20 35 (09)
Ottawa
eP' 20 35 20
Schefferville
eP' 20 35 34
Victoria
eP 20 29 42

JULY 29

Mould Bay
eP 20 43 (41)
i 20 46 11.5

JULY 29

H = 21 30 16
MAG 2.1
Penticton
eP 21 30 41.4
iS 21 30 00.8
D = 159 km

JULY 29

H = 22 48 02
MAG 2.4
Penticton
eP 22 48 27.2
iS 22 48 46.6
D = 159 km

JULY 29

U.S.C.G.S.
10.3N, 62.6W
Near Coast of Venezuela
H = 22 55 14.1
h about 39 km
MAG 4.4 (CGS)

Edmonton

eP 23 05 11 (d)
Mould Bay
eP 23 06 37.5

JULY 30

U.S.C.G.S.
29.6S, 177.3W
Kermadec Islands Region
H = 05 45 53.3
h about 33 km
MAG 5.3 (CGS)
Alert
eP' 06 04 44
Edmonton
eP 05 59 33 (c)
Halifax
eP' 06 04 54
Mould Bay
eP' 06 04 23
Penticton
iP 05 59 08
Port Hardy
eP 05 58 57 (d)
Schefferville
eP' 06 04 48
Victoria
eP 05 58 58

JULY 30

U.S.C.G.S.
34.0N, 116.3W
San Bernardino County,
California
H = 06 34 54.8
h about 14 km
MAG 4.7 (CGS)
Edmonton
eP 06 39 22 (c)
Mould Bay
eP 06 42 53

SEISMOLOGICAL BULLETIN - 1963

JULY 30

U.S.C.G.S.

51.7N, 158.1E

Kamchatka

H = 06 52 22.7

h about 33 km

MAG 5.3 (CGS)

Alert

eP 07 00 33

Edmonton

eP 07 01 20 c

Mould Bay

iP 06 59 47 c

Ottawa

eP 07 03 48

Penticton

iP 07 01 13 c

Resolute

eP 07 00 38

Schefferville

iP 07 03 17 c

Yellowknife

iP 07 00 37

JULY 30

Edmonton

eP 08 34 29

JULY 30

U.S.C.G.S.

33.9N, 135.1E

Near Southwest Coast
of Honshu, Japan

H = 08 28 07.1

h about 149 km

MAG 4.3 (CGS)

Edmonton

eP 08 39 33 c

Mould Bay

eP 08 38 05

Penticton

iP 08 39 28

JULY 30

U.S.C.G.S.

29.2S, 112.1W

Easter Island Region

H = 12 57 25.3

h about 33 km

MAG 4.8 (CGS)

Edmonton

eP 13 09 43 (d)

JULY 30

Mould Bay

eP 13 54 39

JULY 30

U.S.C.G.S.

55.9S, 27.5W

Sandwich Islands

H = 13 51 57.8

h about 33 km

MAG 6.2 (CGS)

Alert

eP' 14 11 12

Edmonton

eP' 14 11 02 d

London

iP' 14 10 47 c

Mould Bay

iP' 14 11 26 d

Ottawa

eP' 14 10 47

Penticton

iP' 14 11 03 d

Port Hardy

eP' 14 11 11

Resolute

eP' 14 11 (17)

Schefferville

eP' 14 10 (46)

Victoria

eP' 14 11 22

Yellowknife

iP' 14 11 15

JULY 30

U.S.C.G.S.

29.5S, 177.1W

Kermadec Islands Region

H = 14 23 13.7

h about 33 km

MAG 5.2 (CGS)

Penticton

iP 14 36 28 d

Port Hardy

eP 14 36 18 d

JULY 30

U.S.C.G.S.

59.3N, 151.7W

Kenai Peninsula

H = 17 38 10.2

h about 33 km

MAG 4.4 (CGS)

Alert

eP 17 44 31

Edmonton

eP 17 43 01 d

Mould Bay

eP 17 42 48

Penticton

iP 17 42 52 d

Yellowknife

iP 17 42 20

JULY 30

H = 22 40 42

MAG 2.5

Port Hardy

eP 22 41 07.4

eS 22 41 26

D = 156 km

JULY 31

H = 00 08 08

MAG 3.8

Penticton

eP 00 09 12.6

iS 00 10 10.8

D = 476 km

DOMINION OBSERVATORIES

JULY 31
Edmonton
eP 07 39 24 c

JULY 31
U.S.C.G.S.
71.4N, 8.5W
Jan Mayen Island Region
H = 08 32 12.5
h about 33 km
MAG 4.3 (CGS)
Edmonton
eP 08 40 27 c
Resolute
eP 08 37 27 c

JULY 31
U.S.C.G.S.
41.9N, 142.4E
Near South Coast of
Hokkaido, Japan
H = 11 29 20.4
h about 33 km
MAG 4.5 (CGS)
Edmonton
eP 11 39 59 (d)
Mould Bay
eP 11 38 27.5
Penticton
eP 11 39 53
Resolute
eP 11 39 08

JULY 31
U.S.C.G.S.
42.2N, 142.4E
Off South Coast of
Hokkaido, Japan
H = 15 09 37.6
h about 33 km
MAG 4.3 (CGS)
Mould Bay
i 15 18 43
Penticton
eP 15 20 10
Resolute
eP 15 19 25 c

JULY 31
U.S.C.G.S.
14.5N, 92.2W
Off Coast of Chiapas,
Mexico
H = 15 37 20.3
h about 33 km
MAG 3.9 (CGS)
Mould Bay
eP 15 47 48
Penticton
eP 15 45 06

JULY 31
Resolute
eP 15 59 47

JULY 31
Port Hardy
iP 16 05 22 c

JULY 31
U.S.C.G.S.
22.5S, 176.8W
Tonga Islands
H = 16 20 20.0
h about 267 km
MAG 4.7 (CGS)
Penticton
eP 16 32 40

JULY 31
U.S.C.G.S.
43.1N, 88.3E
Sinkiang Prov., China
H = 21 53 03.6
h about 45 km
MAG 4.7 (CGS)
Mould Bay
iP 22 03 04 c

AUGUST 1
46° 48'N, 66° 30'W
About 25 miles North of
Boies Town, N.B.
H = 06 34 15.5
h 20 km
MAG 3.0
Halifax
Pi 06 35 08.5
i 06 35 15.5
Sn 06 35 38
Lg 06 35 50
D = 331 km
Seven Falls
Pi 06 35 08.5
i 06 35 31
Sn 06 35 38
Lg 06 35 49.5
D = 331 km

AUGUST 1
U.S.C.G.S.
55.3N, 161.8E
Near East Coast of
Kamchatka
H = 10 45 02.7
h about 50 km
MAG 5.0 (CGS)
Banff
eP 10 53 28
Edmonton
eP 10 53 28 c
Mould Bay
iP 10 51 49 c
Penticton
eP 10 53 22
Resolute
eP 10 52 42
Schefferville
iP 10 55 28 d
Yellowknife
iP 10 52 42 d

SEISMOLOGICAL BULLETIN - 1963

AUGUST 1	AUGUST 1	AUGUST 2
Mould Bay	U.S.C.G.S.	48°5N, 122°0W
eP 12 51 44 c	44.3N, 85.8E	Washington, U.S.A.
Resolute	Sinkiang Prov., China	H = 08 28 38
eP 12 52 (38)	H = 19 59 02.6	MAG 1.6
	h about 33 km	Penticton
AUGUST 1	MAG 4.5 (CGS)	eP 08 29 08.1
U.S.C.G.S.	Mould Bay	D = 200 km
58.3N, 151.9W	eP 20 08 50	Victoria
Kodiak Island Region		eP 08 28 54.2
H = 14 46 39.8	AUGUST 1	S 08 29 06.7
h about 40 km	U.S.C.G.S.	D = 100 km
MAG 4.8 (CGS)	52.1N, 173.2E	
Banff	Near Islands,	AUGUST 2
eP 14 51 31	Aleutian Islands	U.S.C.G.S.
Edmonton	H = 21 43 08.6	56.2N, 34.1W
eP 14 51 32 d	h about 90 km	North Atlantic Ocean
Mould Bay	MAG 4.4 (CGS)	H = 09 07 18.0
iP 14 51 26	Edmonton	h about 41 km
i 14 51 29	eP 21 50 58	MAG 4.6 (CGS)
S 14 55 27	Mould Bay	Edmonton
Penticton	iP 21 49 52	eP 09 15 (19)
eP 14 51 (21)	Schefferville	Halifax
Resolute	eP 21 53 24 d	eP 09 12 06 d
eP 14 52 (16)	AUGUST 2	Mould Bay
Yellowknife	Mould Bay	eP 09 14 11
iP 14 50 (52)	eP 00 53 51	Ottawa
AUGUST 1		eP 09 13 07
U.S.C.G.S.	AUGUST 2	Penticton
42.3N, 142.2E	Mould Bay	eP 09 16 05
Hokkaido, Japan	iP 04 13 48.5	Schefferville
H = 18 22 53.2		eP 09 11 29
h about 26 km	AUGUST 2	
MAG 4.3 (CGS)	U.S.C.G.S.	AUGUST 2
Mould Bay	31.4N, 131.6E	U.S.C.G.S.
eP 18 31 57	Kyushu, Japan	56.3N, 34.5W
Resolute	H = 05 44 36.5	North Atlantic Ocean
eP 18 32 41	h about 22 km	H = 09 13 46.8
	MAG 4.3 (CGS)	h about 33 km
	Mould Bay	MAG 4.2 (CGS)
	eP 05 55 10.5	Halifax
		eP 09 18 34
	AUGUST 2	Mould Bay
	Mould Bay	eP 09 20 39.5
	eP 06 34 43	Schefferville
		eP 09 17 55

DOMINION OBSERVATORIES

AUGUST 2

U.S.C.G.S.
 26.8N, 141.3E
 Mariana Islands Region
 H = 10 20 39.7
 h about 109 km
 MAG 4.3 (CGS)
 Edmonton
 eP 10 32 (25)
 Mould Bay
 eP 10 31 18.5 d
 Penticton
 eP 10 32 15
 Resolute
 eP 10 31 57 (d)

AUGUST 2

U.S.C.G.S.
 6.0N, 125.1E
 Mindanao, Philippine
 Islands
 H = 19 26 26.0
 h about 118 km
 Mag 5.0 (CGS)
 Mould Bay
 eP 19 39 (10)

AUGUST 2

U.S.C.G.S.
 40.5N, 125.1W
 Off Coast of Northern
 California
 H = 22 17 25.6
 h about 33 km
 MAG 5.1 (CGS)
 Banff
 eP 22 20 25
 Penticton
 eP 22 19 43

AUGUST 3

U.S.C.G.S.
 8.8S, 108.3W
 Southwest of
 Galapagos Islands
 H = 01 09 56
 h about 33 km
 MAG 4.4 (CGS)
 Edmonton
 eP 01 20 12 d

AUGUST 3

Mould Bay
 eP 01 48 29

AUGUST 3

U.S.C.G.S.
 7.6S, 156.8E
 Solomon Islands
 H = 03 48 06.4
 h about 402 km
 MAG 5.1 (CGS)
 Edmonton
 eP 04 00 49 (d)
 Ottawa
 eP¹ 04 06 07
 Penticton
 iP 04 00 29 d
 pP 04 02 06
 Port Hardy
 pP 04 01 45
 Victoria
 eP 04 00 16
 pP 04 01 54

AUGUST 3

U.S.C.G.S.
 7.7N, 35.8W
 Mid-Atlantic Ocean
 H = 10 21 36.6
 h about 33 km
 MAG 6.1 (CGS)
 Banff
 eP 10 33 30
 Edmonton
 iP 10 33 24 d

Halifax

iP 10 29 44 d
 London
 iP 10 30 52 d
 Mould Bay
 iP 10 33 51 (c)
 Ottawa
 iP 10 30 38
 Penticton
 iP 10 33 45 d
 Port Hardy
 iP 10 34 12 d
 Resolute
 eP 10 33 15 d
 Scarboro
 eP 10 30 46 d
 Victoria
 eP 10 33 58 d

AUGUST 3

U.S.C.G.S.
 7.8N, 35.9W
 Mid-Atlantic Ocean
 H = 10 34 25.7
 h about 33 km
 MAG 4.9 (CGS)
 Edmonton
 eP 10 46 13

AUGUST 3

U.S.C.G.S.
 52.0N, 174.3W
 Andreanof Islands,
 Aleutian Islands
 H = 16 29 35.8
 h about 33 km
 MAG 4.4 (CGS)
 Banff
 eP 16 36 40
 Edmonton
 iP 16 36 37 c
 Ottawa
 eP 16 39 44
 Penticton
 eP 16 36 20

SEISMOLOGICAL BULLETIN - 1963

- AUGUST 3
Mould Bay
eP 19 42 24
- AUGUST 3
U.S.C.G.S.
1.4N, 28.2W
Mid-Atlantic Ocean
H = 20 07 19.9
h about 33 km
MAG 4.4 (CGS)
Edmonton
eP 20 19 58 c
- AUGUST 3
U.S.C.G.S.
30.7S, 178.3W
Kermadec Islands
H = 20 26 04.1
h about 37 km
MAG 5.2 (CGS)
Halifax
iP' 20 45 06 d
Penticton
iP 20 39 25
Resolute
eP' 20 44 45 (c)
Schefferville
eP' 20 45 03 d
- AUGUST 3
H = 22 12 41
MAG 2.0
Penticton
iP 22 13 00.1
iS 22 13 17.2
D = 140 km
- AUGUST 4
Edmonton
eP 00 30 39
- AUGUST 4
Penticton
e 01 52 (51)
Port Hardy
iP 01 51 52
- AUGUST 4
H = 04 17 27
MAG 2.2
Penticton
eP 04 17 52.5
eS 04 18 11.9
D = 162 km
- AUGUST 4
U.S.C.G.S.
9.4S, 114.2E
South of Java
H = 07 08 47.1
h about 117 km
MAG 5.5 (CGS)
Edmonton
eP' 07 27 31
Halifax
iP' 07 28 12
Ottawa
e 07 31 43
Schefferville
e 07 31 19
- AUGUST 4
U.S.C.G.S.
35.7N, 140.1E
Honshu, Japan
H = 11 43 20.3
h about 68 km
MAG 4.7 (CGS)
Edmonton
eP 11 54 31 (c)
Mould Bay
eP 11 53 07.5 (c)
Penticton
eP 11 54 25
Resolute
eP 11 53 49
- AUGUST 4
U.S.C.G.S.
4.1S, 80.9W
Near North Coast
of Peru
H = 12 07 24.4
h about 34 km
MAG 4.7 (CGS)
Banff
eP 12 17 46
Edmonton
eP 12 17 50 (c)
Mould Bay
eP 12 19 48
Ottawa
eP 12 16 11
Penticton
iP 12 17 49 c
Schefferville
eP 12 17 27 c
- AUGUST 4
U.S.C.G.S.
12.6N, 143.8E
Mariana Islands
H = 13 00 44.7
h about 61 km
MAG 4.6 (CGS)
Mould Bay
eP 13 12 46
Penticton
eP 13 13 14
Resolute
eP 13 13 19
- AUGUST 4
Resolute
eP 21 46 47
- AUGUST 5
Banff
eP 00 06 11
Edmonton
eP 00 06 19 c
Mould Bay
eP 00 07 03.5

DOMINION OBSERVATORIES

Penticton iP 00 05 (55)	AUGUST 5 U.S.C.G.S. 60.7S, 154.3E Macquarie Island Region H = 15 39 07.0 h about 33 km MAG 5.2 (CGS) Mould Bay eP' 15 58 42.5 Resolute eP' 15 59 04 Schefferville eP' 15 59 (04)	Halifax eP 13 41 31 Mould Bay iP 13 43 23.5 c Penticton iP 13 45 19 d Resolute eP 13 42 31 c Schefferville eP 13 40 50 c
AUGUST 5 U.S.C.G.S. 17.2N, 99.8W Near Coast of Guerrero, Mexico H = 02 48 41.5 h about 33 km MAG 4.3 (CGS) Mould Bay eP 02 58 47	AUGUST 5 Yellowknife i 18 59 06	AUGUST 6 Penticton eP 19 44 09
AUGUST 5 Canadian Arctic H = 03 46 57.4 MAG 1.4 Resolute P ₁ 03 47 04.0 S ₁ 03 47 09.0 D = 41 km	AUGUST 6 U.S.C.G.S. 45.1N, 111.4W Southwestern Montana H = 05 20 32.0 h about 33 km MAG 3.7 (CGS) Penticton eS 05 23 (31)	AUGUST 7 U.S.C.G.S. 54.0N, 142.1E Sakhalin Island, U.S.S.R. H = 04 33 42.7 h about 33 km MAG 5.1 (CGS) Alert eP 04 41 43 Edmonton eP 04 43 21 c Frobisher iP 04 43 48 c Mould Bay eP 04 41 19 Ottawa eP 04 45 26 Penticton eP 04 43 22 Resolute eP 04 42 06 c Schefferville eP 04 44 45 c
AUGUST 5 Edmonton eP 08 56 58 d Schefferville eP 08 56 36	AUGUST 6 H = 12 46 22 MAG 2.2 Port Hardy eP 12 46 42.3 eS 12 47 02.1 D = 163 km	AUGUST 7 Mould Bay eP 07 21 37.5
AUGUST 5 U.S.C.G.S. 9.9S, 79.0W Near Coast of Peru H = 08 46 59.7 h about 31 km MAG 4.8 (CGS) Edmonton eP 08 58 05 (d) Mould Bay eP 08 59 53 i 09 00 06 Schefferville eP 08 57 39	AUGUST 6 U.S.C.G.S. 57.0N, 33.6W North Atlantic Ocean H = 13 36 35.6 h about 33 km MAG 5.1 (CGS) Banff eP 13 44 53 Edmonton eP 13 44 35 d	
AUGUST 5 Mould Bay eP 11 22 26		

SEISMOLOGICAL BULLETIN - 1963

AUGUST 7	Edmonton	Port Hardy
U.S.C.G.S.	eP 18 44 (43)	iP 02 22 13 d
7.5N, 37.2W	Mould Bay	Resolute
Atlantic Ocean	iP 18 47 17 d	eP 02 22 31 (d)
H = 07 17 25.8	Ottawa	Schefferville
h about 33 km	eP 18 43 27	iP 02 25 15 c
MAG 4.6 (CGS)	Penticton	Victoria
Alert	iP 18 44 40 c	iP 02 22 41 d
eP 07 29 07	Resolute	
Edmonton	eP 18 46 54 c	AUGUST 8
eP 07 29 08 (c)	Schefferville	U.S.C.G.S.
Mould Bay	eP 18 44 57 c	29.8N, 138.8E
eP 07 29 38	Victoria	South of Honshu, Japan
Schefferville	eP 18 44 48 c	H = 03 09 51.7
eP 07 26 37		h about 458 km
		MAG 3.8 (CGS)
		Mould Bay
		eP 03 19 41 c
AUGUST 7	AUGUST 7	
U.S.C.G.S.	Edmonton	
20.0S, 178.3W	eP 20 50 32	
Fiji Islands	Mould Bay	
H = 11 15 07.6	eP 20 52 52	AUGUST 8
h about 600 km		H = 04 48 48
MAG 4.5 (CGS)		MAG 1.9
Penticton		Port Hardy
iP 11 26 48		eP 04 49 18.7
		eS 04 49 42.0
		D = 190 km
AUGUST 7		
U.S.C.G.S.		AUGUST 8
56.1S, 27.0W		Mould Bay
Sandwich Islands		eP 05 59 16
H = 17 13 18.4		
h about 33 km		AUGUST 8
MAG 5.4 (CGS)		Edmonton
Mould Bay		eP 06 34 43 (d)
iP ^o 17 32 47 d		
		AUGUST 8
AUGUST 7		U.S.C.G.S.
U.S.C.G.S.		35.9S, 103.6W
13.6N, 90.9W		Easter Island Region
Near South Coast		H = 10 58 23.1
of Guatemala		h about 33 km
H = 18 36 46.6		MAG 4.7 (CGS)
h about 67 km		Banff
MAG 4.7 (CGS)		eP 11 11 08
Banff		Edmonton
eP 18 44 37		eP 11 11 16

DOMINION OBSERVATORIES

Penticton iP 11 11 01	Port Hardy eP 14 04 37 (d)	AUGUST 9 Edmonton eP 08 51 26 c
AUGUST 8 U.S.C.G.S. 5.8S, 151.0E	Resolute eP 14 05 06 (c)	Mould Bay eP 08 49 54.5
New Britain H = 11 16 11.2 h about 48 km MAG 5 (BKS), 5.6 (CGS)	Victoria eP 14 04 53 d	i 08 51 59 Penticton eP 08 51 19
Banff eP 11 29 37	AUGUST 9 Penticton eP 00 18 04	AUGUST 9 Alert eP 09 03 11
Edmonton eP 11 29 43	AUGUST 9 U.S.C.G.S. 14.2N, 92.3W	AUGUST 9 U.S.C.G.S. 51.6N, 178.8W
Mould Bay eP 11 29 30	Guatemala H = 01 17 37.8 h about 33 km MAG 4.1 (CGS)	Andreanof Islands, Aleutian Islands H = 12 20 02.2 h about 33 km MAG 4.5 (CGS)
Penticton iP 11 29 25	Edmonton eP 01 25 30	Edmonton eP 12 27 24 c
AUGUST 8 U.S.C.G.S. 27.3N, 129.2E	Mould Bay eP 01 28 08	Mould Bay eP 12 26 40
Ryukyu Islands H = 11 41 30.5 h about 92 km MAG 4.4 (CGS)	Penticton eP 01 25 24	i 12 29 16 Penticton iP 12 27 10
Mould Bay eP 11 52 23.5	Yellowknife iP 01 26 36	Yellowknife iP 12 26 54
i 11 52 35	AUGUST 9 U.S.C.G.S. 44.5N, 11.9E	AUGUST 9 U.S.C.G.S. 15.3S, 175.7W
Resolute eP 11 52 59 (d)	Northern Italy H = 06 05 32.2 h about 33 km MAG 4.9 (CGS)	Fiji Islands Region H = 14 36 45.9 h about 33 km MAG 5.5 (CGS)
AUGUST 8 U.S.C.G.S. 18.3N, 145.3E	Alert eP 06 13 38	Banff eP 14 49 17
Mariana Islands Region H = 13 53 42.2 h about 423 km MAG 4.9 (CGS)	Banff eP 06 17 08	Edmonton eP 14 49 27 (c)
Edmonton iP 14 05 18 d	Edmonton eP 06 16 (53)	Mould Bay eP 14 50 16
Mould Bay iP 14 04 31.5	Mould Bay eP 06 15 05 c	Penticton iP 14 49 01
Penticton iP 14 05 05 d	Penticton iP 06 17 25	
	Yellowknife iP 06 16 11 d	

SEISMOLOGICAL BULLETIN - 1963

Port Hardy eP 14 48 44	AUGUST 10 U.S.C.G.S. 8.8N, 82.9W	AUGUST 10 49°35'N, 115°25'W
Victoria eP 14 48 44	Panama - Costa	Near Cranbrook, B.C.
Yellowknife eP 14 49 (47)	Rica Border	H = 23 43 37
AUGUST 9	H = 18 37 45.3	MAG 2.0
Mould Bay	h about 33 km	Banff
eP 23 41 30	MAG 4.3 (CGS)	eP 23 44 04.3
AUGUST 10	Edmonton	eS 23 44 28.3
U.S.C.G.S.	eP 18 46 42	D = 170 km
28.1N, 53.3E	Mould Bay	Penticton
Southern Iran	eP 18 48 (56)	eP 23 44 20.3
H = 04 27 33.5	Penticton	eS 23 44 54.0
h about 46 km	eP 18 46 44	D = 300 km
MAG 4.8 (CGS)	AUGUST 10	AUGUST 11
Alert	Penticton	H = 01 17 43
eP 04 38 (14)	eP 20 56 52	MAG 2.1
Mould Bay	AUGUST 10	Penticton
eP 04 39 16	U.S.C.G.S.	eP 01 18 15.2
Schefferville	49.6N, 179.2E	eS 01 18 40.0
eP 04 39 54	Rat Islands,	D = 203 km
AUGUST 10	Aleutian Islands	AUGUST 11
U.S.C.G.S.	H = 21 03 39	U.S.C.G.S.
24.7N, 142.7E	h about 33 km	60.5S, 154.9E
Volcano Islands Region	MAG 4.3 (CGS)	Balleny Islands Region
H = 13 17 47.1	Penticton	H = 01 34 22.2
h about 33 km	iP 21 10 59 c	h about 33 km
MAG 5.0 (CGS)	AUGUST 10	MAG 5.4 (CGS)
Banff	H = 22 37 06	Mould Bay
eP 13 29 44	MAG 1.7	eP ¹ 01 54 02
Edmonton	Penticton	Ottawa
eP 13 29 46 d	eP 22 37 31.0	eP ¹ 01 54 11
Mould Bay	eS 22 37 50.4	AUGUST 11
eP 13 28 45	D = 159 km	U.S.C.G.S.
Penticton	AUGUST 10	38.8N, 140.9E
iP 13 29 35 d	H = 22 46 33	Near East Coast of
Resolute	MAG 1.7	Northern Honshu, Japan
eP 13 29 22.5	Penticton	H = 07 37 20.4
	iP 22 47 03.6	h about 45 km
	iS 22 47 27.2	MAG 5.0 (CGS)
	D = 193 km	Banff
		eP 07 48 18
		Edmonton
		eP 07 48 17 c

DOMINION OBSERVATORIES

Mould Bay		Mould Bay		AUGUST 12	
eP	07 46 48 (c)	eP	19 51 34	U.S.C.G.S.	
Penticton		i	19 52 24	27.7N, 53.2E	
iP	07 48 11			Near Southwest Coast	
Resolute		AUGUST 11		of Iran	
iP	07 47 30 d	H = 20 45 41		H = 07 19 54.9	
Schefferville		MAG 1.6		h about 33 km	
eP	07 49 46	Port Hardy		MAG 5.0 (CGS)	
Victoria		eP	20 46 08.8	Mould Bay	
eP	07 48 01	eS	20 46 29.9	eP	07 31 41.5
		D = 172 km		Schefferville	
				eP	07 32 20
AUGUST 11		AUGUST 12		AUGUST 12	
U.S.C.G.S.		U.S.C.G.S.		U.S.C.G.S.	
38.1S, 73.1W		32.5S, 71.1W		2.1N, 90.4W	
Near Coast of		Near Coast of		Galapagos Islands	
Southern Chile		Central Chile		H = 13 06 46.1	
H = 10 03 05.1		H = 01 05 34.1		h about 33 km	
h about 60 km		h about 92 km		MAG 4.6 (CGS)	
MAG 5.0 (CGS)		MAG 4.7 (CGS)		Banff	
Ottawa		Edmonton		eP	13 16 06
eP	10 15 26	eP	01 18 36 (c)	Edmonton	
Penticton		Ottawa		eP	13 16 11
eP	10 16 28	eP	01 17 20	Mould Bay	
		Penticton		eP	13 18 30
AUGUST 11		iP	01 18 35 d	Penticton	
H = 14 18 22		Schefferville		eP	13 16 03
MAG 1.8		eP	01 18 10 (c)	Port Hardy	
Port Hardy				eP	13 16 33
eP	14 18 49.8	AUGUST 12		Yellowknife	
eS	14 19 10.7	H = 02 01 33		eP	13 17 11
D = 171 km		MAG 1.8			
		Penticton		AUGUST 12	
AUGUST 11		eP	02 01 52.6	Edmonton	
Edmonton		eS	02 02 28.0	eP	13 21 34
eP	19 31 (54)	D = 208 km		Penticton	
Mould Bay				eP	13 21 25
eP	19 31 01	AUGUST 12		Yellowknife	
i	19 33 (00)	U.S.C.G.S.		iP	13 22 33 c
		38.1N, 88.7E			
AUGUST 11		Sinkiang Prov., China			
U.S.C.G.S.		H = 03 01 37.7			
36.2N, 71.2E		h about 33 km			
Hindu Kush		Mould Bay			
H = 19 40 52.2		eP	03 12 12.5		
h about 148 km					

SEISMOLOGICAL BULLETIN - 1963

AUGUST 12
47°2N, 120°9W
Central Washington, U.S.A.
H = 14 07 15
MAG 2.1
Penticton
eP 14 07 52.0
eS 14 08 22.8
D = 252 km
Victoria
eP 14 07 50
D = 232 km

AUGUST 12
U.S.C.G.S.
9.8N, 84.2W
Costa Rica
H = 17 19 05.3
h about 114 km
MAG 4.2 (CGS)
Mould Bay
iP 17 30 00

AUGUST 12
U.S.C.G.S.
25.3N, 62.7E
Near Coast of
West Pakistan
H = 18 29 38.8
h about 33 km
MAG 5.2 (CGS)
Mould Bay
eP 18 41 40.5 c

AUGUST 12
U.S.C.G.S.
21.9S, 175.7W
Tonga Islands
H = 20 59 08.0
h about 33 km
MAG 4.6 (CGS)
Penticton
eP 21 11 51

AUGUST 12
U.S.C.G.S.
56.0S, 27.7W
Sandwich Islands Region
H = 21 14 00.1
h about 33 km
Mould Bay
eP¹ 21 33 27.5 d

AUGUST 13
U.S.C.G.S.
55.0N, 156.4W
Kodiak Island Region
H = 03 26 45.4
h about 33 km
MAG 5.0 (CGS)
Alert
eP 03 33 50 (d)
Banff
iP 03 32 04
Edmonton
iP 03 32 09 d
Mould Bay
iP 03 32 13 d
S 03 36 39
Ottawa
eP 03 35 35
Penticton
eP 03 31 47
Port Hardy
eP 03 30 53
Resolute
eP 03 32 58 d
Schefferville
eP 03 35 23 d
Yellowknife
iP 03 31 45

AUGUST 13
Penticton
eP 03 52 14

AUGUST 13
U.S.C.G.S.
7.2S, 124.5E
Banda Sea
H = 04 53 58.8
h about 542 km
MAG 5.3 (CGS)
Banff
eP¹ 05 11 38
Edmonton
eP¹ 05 11 39
Mould Bay
eP 05 06 (59)

AUGUST 13
U.S.C.G.S.
20.6S, 178.5W
Fiji Islands
H = 06 29 19.1
h about 562 km
MAG 4.6 (CGS)
Banff
eP 06 41 21
Edmonton
eP 06 41 30 d
Penticton
iP 06 41 06 d

AUGUST 13
U.S.C.G.S.
19.1S, 173.9W
Tonga Islands
H = 06 52 06.1
h about 28 km
MAG 4.7 (CGS)
Edmonton
eP 07 04 59 d
Penticton
eP 07 04 33

DOMINION OBSERVATORIES

AUGUST 13
 U.S.C.G.S.
 36.6N, 70.9E
 Hindu Kush
 H = 07 03 49.6
 h about 244 km
 MAG 4.7 (CGS)
 Edmonton
 eP 07 16 26
 Mould Bay
 iP 07 14 19
 pP 07 15 17
 Pentiction
 eP 07 16 42
 Schefferville
 eP 07 15 44
 Yellowknife
 iP 07 15 39
 pP 07 16 39

AUGUST 13
 U.S.C.G.S.
 3.1S, 80.4W
 Near Coast of Ecuador
 H = 12 39 55.3
 h about 66 km
 MAG 4.3 (CGS)
 Edmonton
 eP 12 50 13
 Mould Bay
 eP 12 52 11 c
 Pentiction
 eP 12 50 12

AUGUST 13
 Victoria
 iP 13 05 37 d

AUGUST 13
 U.S.C.G.S.
 76.2N, 6.4E
 Svalbard Region
 H = 13 28 02.2
 h about 33 km
 MAG 4.7 (CGS)

Alert
 eP 13 31 00
 Edmonton
 eP 13 36 18 d
 Mould Bay
 eP 13 33 20
 Resolute
 eP 13 32 59
 iS 13 36 56

AUGUST 13
 47°3N, 121°6W
 Central Washington,
 U.S.A.
 H = 15 03 58
 MAG 2.6
 Pentiction
 eP 15 04 37.8
 eS 15 05 22.6
 D = 273 km
 Victoria
 eP 15 04 35.0 d
 D = 190 km

AUGUST 13
 U.S.C.G.S.
 19.3S, 173.7W
 Tonga Islands
 H = 21 52 37.4
 h about 33 km
 MAG 5.1 (CGS)
 Banff
 eP 22 05 19
 Edmonton
 eP 22 05 30
 Pentiction
 iP 22 05 04 c
 Port Hardy
 eP 22 04 (50)

AUGUST 13
 U.S.C.G.S.
 27.2N, 140.1E
 Bonin Islands Region
 H = 23 00 24.8
 h about 448 km
 MAG 4.8 (CGS)
 Alert
 iP 23 10 52 d
 Edmonton
 iP 23 11 36 d
 Mould Bay
 iP 23 10 28 d
 Pentiction
 eP 23 11 26
 Yellowknife
 iP 23 11 08 d

AUGUST 14
 Pentiction
 eP 01 37 31

AUGUST 14
 Mould Bay
 eP 02 06 56.5
 Yellowknife
 iP 02 06 38 d

AUGUST 14
 U.S.C.G.S.
 21.4S, 175.2W
 Fiji Islands Region
 H = 02 46 44.1
 h about 33 km
 MAG 4.7 (CGS)
 Pentiction
 eP 02 59 23

AUGUST 14
 U.S.C.G.S.
 4.9S, 152.3E
 New Britain
 H = 03 32 33.5
 h about 62 km
 Mag 5.8 (CGS)
 Banff
 eP 03 45 52

SEISMOLOGICAL BULLETIN - 1963

Edmonton eP 03 45 58	Penticton eP 16 31 09	Victoria eP 02 28 05
Mould Bay iP 03 45 47 d	AUGUST 14 Alert eP 16 39 59	Yellowknife iP 02 27 56 c
Penticton eP 03 45 39	i 16 41 15	AUGUST 15 U.S.C.G.S. 37.9N, 141.6E
AUGUST 14 U.S.C.G.S. 83.6N, 4.6W	AUGUST 14 Mould Bay iP 17 44 12 d	Near East Coast of Honshu, Japan H = 06 11 34.6 h about 59 km
Svalbard Region H = 13 46 02.0 h about 33 km MAG 4.6 (CGS)	AUGUST 14 U.S.C.G.S. 3.4S, 135.4E	Alert iP 06 21 32 c
Alert eP 13 47 42 i 13 48 55	West Irian H = 18 43 55.5 h about 33 km MAG 6.4 (CGS)	Banff eP 06 22 32
AUGUST 14 U.S.C.G.S. 22.3S, 68.7W	Alert eP 18 57 41	Frobisher iP 06 23 16.5 c
Northern Chile H = 14 32 36.7 h about 120 km MAG 5.1 (CGS)	Mould Bay eP 18 57 23 c	iS 06 32 54
Banff eP 14 44 54	Schefferville iP ^a 19 02 56 d	London eP 06 24 32 c
Edmonton iP 14 44 57 d	AUGUST 15 U.S.C.G.S. 27.9N, 139.6E	Mould Bay iP 06 21 06 c
Penticton iP 14 44 57 d	Bonin Islands H = 02 17 16.9 h about 476 km MAG 4.7 (CGS)	S 06 28 49
Schefferville eP 14 44 16	Alert eP 02 27 38 c	Ottawa eP 06 24 30
Victoria eP 14 45 05 d	Banff eP 02 28 21	Penticton iP 06 22 25 c
Yellowknife iP 14 45 33 c	Mould Bay iP 02 27 15 c	Port Hardy eP 06 21 51
AUGUST 14 U.S.C.G.S. 24.1N, 122.4E	e 02 28 48	Resolute iP 06 21 48 c
Off Coast of Formosa H = 16 18 18.0 h about 28 km MAG 5.3 (CGS)	Penticton iP 02 28 16 c	Scarboro iP 06 24 34 c
Edmonton eP 16 31 12	Port Hardy eP 02 27 45.4 c	Schefferville eP 06 24 03 c
Mould Bay (iP) 16 29 45	Resolute eP 02 27 51.5 c	Victoria eP 06 22 15
		Yellowknife eP 06 21 56 c
		AUGUST 15 Alert eP 08 13 (12)
		Mould Bay eP 08 13 08.5

SEISMOLOGICAL BULLETIN - 1963

AUGUST 17
 U.S.C.G.S.
 20.0S, 174.0W
 Tonga Islands
 H = 05 33 40.1
 h about 33 km
 MAG 4.6 (CGS)
 Penticton
 eP 05 46 11

AUGUST 17
 U.S.C.G.S.
 52.4N, 168.7W
 Fox Islands,
 Aleutian Islands
 H = 06 17 36.4
 h about 33 km
 MAG 4.3 (CGS)
 Edmonton
 eP 06 24 08

AUGUST 17
 U.S.C.G.S.
 30.6N, 130.9E
 Ryukyu Islands Region
 H = 11 12 41.2
 h about 33 km
 MAG 5.6 (CGS)
 Alert
 iP 11 23 32 c
 S 11 32 24
 Banff
 eP 11 24 48
 Edmonton
 eP 11 24 47 c
 Frobisher
 iP 11 25 12 c
 iS 11 35 38
 Mould Bay
 iP 11 23 19.5 c
 i 11 23 32.5
 iS 11 31 59
 Penticton
 iP 11 24 42 c
 Port Hardy
 eP 11 24 13.2

Resolute
 iP 11 23 58 c
 Victoria
 eP 11 24 33 c

AUGUST 17
 U.S.C.G.S.
 17.7N, 94.3W
 Veracruz, Mexico
 H = 11 34 23.4
 h about 163 km
 MAG 4.9 (CGS)
 Alert
 eP 11 44 53 c
 Banff
 eP 11 41 23
 Edmonton
 eP 11 41 30 a
 Frobisher
 iP 11 42 56 d
 Mould Bay
 iP 11 44 14.0 c
 i 11 44 55
 Ottawa
 eP 11 40 31
 Penticton
 iP 11 41 24 d
 Victoria
 iP 11 41 34 d

AUGUST 17
 U.S.C.G.S.
 32.1N, 40.9W
 North Atlantic Ocean
 H = 22 15 22.2
 h about 33 km
 MAG 4.8 (CGS)
 Frobisher
 eP 22 22 24 c
 Halifax
 eP 22 20 15

AUGUST 18
 47°5N, 122°6W
 Central Washington,
 U.S.A.
 H = 00 24 26
 MAG 3.2
 Banff
 eP 00 25 54
 Penticton
 eP 00 25 09.0
 eS 00 25 45.5
 D = 298 km
 Port Hardy
 eP 00 25 33.6
 D = 498 km
 Victoria
 iP 00 25 45.9
 D = 125 km

AUGUST 18
 U.S.C.G.S.
 35.9N, 139.2E
 Central Honshu, Japan
 H = 07 09 51.6
 h about 153 km
 MAG 4.8 (CGS)
 Alert
 iP 07 19 53 d
 Edmonton
 eP 07 20 55 d
 Frobisher
 eP 07 21 30.5 d

AUGUST 18
 U.S.C.G.S.
 19.5N, 45.4W
 North Atlantic Ocean
 H = 15 58 14.3
 h about 33 km
 MAG 4.2 (CGS)
 Alert
 eP 16 08 46
 Edmonton
 eP 16 08 (29)

DOMINION OBSERVATORIES

AUGUST 18	AUGUST 18	Edmonton
U.S.C.G.S.	U.S.C.G.S.	eP 09 42 37 c
50.3N, 176.9W	32.1S, 178.1W	
Andeanof Islands,	Kermadec Islands Region	AUGUST 19
Aleutian Islands	H = 20 27 41.9	U.S.C.G.S.
H = 18 43 16.1	h about 33 km	59.8S, 25.9W
h about 33 km	MAG 5.0 (CGS)	Sandwich Islands Region
MAG 5.5 (CGS)	Schefferville	H = 09 51 25.2
Alert	eP ¹ 20 46 43	h about 33 km
eP 18 51 17		Alert
Banff	AUGUST 18	eP ¹ 10 10 51 (d)
iP 18 50 31	U.S.C.G.S.	Edmonton
Edmonton	14.2S, 71.9W	eP ¹ 10 10 33
iP 18 50 36 d	Southern Peru	Mould Bay
Halifax	H = 23 07 54.2	eP ¹ 10 11 02.5
eP 18 54 21 (d)	h about 31 km	Yellowknife
London	MAG 4.6 (CGS)	iP ¹ 10 10 46
iP 18 53 33 d	Edmonton	
Mould Bay	eP 23 19 39 (c)	AUGUST 19
iP 18 50 00 d		U.S.C.G.S.
i 18 52 35	AUGUST 19	45.7S, 95.9E
S 18 55 20	Canadian Arctic	Indian Ocean
Ottawa	H = 02 21 58.5	H = 11 49 26.4
iP 18 53 39	MAG 1.9	h about 33 km
Penticton	Alert	Mould Bay
iP 18 50 19 d	iP ₁ 02 22 12.8	eP ¹ 12 09 03
Resolute	iS ₁ 02 22 23.7	
eP 18 50 51.5	D = 89.5 km	AUGUST 19
Schefferville		Canadian Arctic
iP 18 53 22 d	AUGUST 19	H = 15 26 02.4
Victoria	U.S.C.G.S.	MAG 2.0
eP 18 50 00	45.6S, 95.7E	Mould Bay
	Indian Ocean	eP 15 26 30.0
AUGUST 18	H = 07 29 40.5	i 15 26 33.0
Edmonton	h about 33 km	i 15 26 46.5
eP 19 28 49 (d)	Mould Bay	iS ₁ 15 26 51.0
	eP ¹ 07 49 18.5	D = 172 km
AUGUST 18		
U.S.C.G.S.	AUGUST 19	AUGUST 19
22.5S, 175.2W	U.S.C.G.S.	Victoria
Tonga Islands	40.9N, 126.0W	eP 22 19 36
H = 20 18 29.9	Off Coast of	
h about 33 km	Northern California	AUGUST 20
MAG 4.7 (CGS)	H = 09 39 00	Victoria
Penticton	h about 33 km	eP 03 00 37
eP 20 31 12	MAG 4.1 (CGS)	

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AUGUST 20

H = 06 09 00

Mag 2.2

Port Hardy

iP 06 09 32.3

iS 06 09 56.7

D = 200 km

AUGUST 20

Victoria

iP 08 07 54 (d)

AUGUST 20

U.S.C.G.S.

16.0N, 92.4W

Chiapas, Mexico.

H = 09 25 38.9

h about 193 km

Mag 4.2 (CGS)

Edmonton

eP 09 33 02 c

Penticton

eP 09 32 56

AUGUST 20

U.S.C.G.S.

4.1N, 76.5W

Colombia

H = 13 19 50.3

h about 59 km

Mag 4.5 (CGS)

Penticton

iP 13 29 39

AUGUST 20

U.S.C.G.S.

41.2N, 142.7E

Off East Coast of

Honshu, Japan.

H = 15 48 12.2

h about 50 km

Mag 4.5 (CGS)

Alert

eP 15 57 46 (c)

S 16 05 29

Edmonton

eP 15 58 51

Mould Bay

eP 15 57 19.5 c

Penticton

eP 15 58 44

Port Hardy

eP 15 58 11

Resolute

eP 15 58 02

Schefferville

eP 16 00 23

Victoria

eP 15 58 34

AUGUST 20

U.S.C.G.S.

0.0, 80.9W

Off Coast of Ecuador

H = 20 14 31

h about 64 km

Mag 4.2 (CGS)

Penticton

eP 20 24 30

AUGUST 20

Victoria

eP 22 30 43 c

AUGUST 20

Mould Bay

e(P) 23 27 45

AUGUST 21

U.S.C.G.S.

14.3N, 72.5W

Caribbean Sea

H = 03 39 22.6

h about 33 km

Mag 5.4 (CGS)

Alert

eP 03 50 22 c

S 03 59 20

Banff

eP 03 48 18

Edmonton

eP 03 48 18

London

iP 03 45 27 c

Mould Bay

iP 03 50 10 c

i 03 50 23

eP 03 45 40 (c)

Ottawa

eP 03 45 40 (c)

Penticton

eP 03 48 29

Resolute

eP 03 49 38

Scarboro

iP 03 45 30 c

Schefferville

iP 03 47 03 c

Victoria

iP 03 48 43 c

Yellowknife

iP 03 49 02

AUGUST 21

H = 12 38 04

Mag 2.2

Port Hardy

iP 12 38 32.3

iS 12 38 53.7

D = 175 km

AUGUST 21

U.S.C.G.S.

49.0N, 158.2E

Kurile Islands Region

H = 18 02 44.4

h about 33 km

Mag 4.9 (CGS)

Penticton

eP 18 11 45

AUGUST 21

Canadian Arctic

H = 22 40 41.4

Mag 1.3

Resolute

P₁ 22 40 44

S₁ 22 40 46

D = 16.4 km

DOMINION OBSERVATORIES

AUGUST 22	Penticton	h about 33 km
U.S.C.G.S.	iP 09 29 13 d	Mag 6 3/4 - 7 (PAS),
63.2N, 148.5W	Port Hardy	6 - 6 1/4 (BRK),
Central Alaska	iP 09 29 16.7 d	6.1 (CGS)
H = 03 58 43.2	Resolute	Banff
h about 101 km	eP 09 34 06	eP 20 05 46
Mag 4.6 (CGS)	Schefferville	Edmonton
Alert	eP 09 34 46	eP 20 05 52 c
eP 04 04 21	Victoria	Mould Bay
Banff	eP 09 28 48 d	eP 20 05 56
eP 04 03 16	Yellowknife	i 20 16 34
Edmonton	eP 09 31 57	Ottawa
eP 04 03 17 (d)		eP' 20 11 18
Mould Bay	AUGUST 22	Penticton
eP 04 02 26.5	Victoria	eP 20 05 28
i 04 05 14	e 12 35 11	Port Hardy
Penticton	e 12 36 22	eP 20 05 13
iP 04 03 20		Victoria
Resolute	AUGUST 22	eP 20 05 22
eP 04 03 (25)	Edmonton	Yellowknife
Yellowknife	eP 18 13 48 (d)	eP 20 05 55
eP 04 02 17	Mould Bay	
	eP 18 16 11 d	AUGUST 22
AUGUST 22	Penticton	H = 20 10 27
Victoria	eP 18 13 23	Mag 1.1
eP 07 55 00		Alberni
	AUGUST 22	iP 20 10 46.1
AUGUST 22	U.S.C.G.S.	D = 120 km
U.S.C.G.S.	3.8S, 104.2W	Victoria
42.0N, 126.2W	About 1500 km	iP 20 10 31.4
Off Coast of Oregon	West of Galapagos Islands	iS 20 10 34.9
H = 09 27 09.3	H = 18 18 49.3	D = 29 km
h about 33 km	h about 33 km	
Mag 5.6 (CGS)	Mag 4.3 (CGS)	AUGUST 22
Alert	Edmonton	H = 20 36 46
eP 09 35 26 d	eP 18 28 35	Mag 2.3
Banff	Mould Bay	Port Hardy
eP 09 29 56	eP 18 30 58.5 (d)	iP 20 37 23.4
Edmonton	Penticton	iS 20 37 44.3
eP 09 30 26 (c)	eP 18 28 11	D = 171 km
London		
eP 09 33 44 (c)	AUGUST 22	AUGUST 22
Mould Bay	U.S.C.G.S.	U.S.C.G.S.
eP 09 33 56.5	9.4 S, 158.0E	4.3N, 76.4W
eS 09 39 (28)	Solomon Islands	Colombia
	H = 19 52 25.0	H = 23 20 21.1
		h about 100 km
		Mag 4.9 (CGS)

SEISMOLOGICAL BULLETIN - 1963

Edmonton eP 23 30 (00)	Port Hardy iP 15 22 23.9	AUGUST 24 Canadian Arctic
Mould Bay eP 23 31 56 d	iS 15 22 39.3	H = 09 12 22.7
Penticton iP 23 30 05 c	D = 126 km	Mag 2.6
Victoria eP 23 30 15 c	AUGUST 24	Resolute
Yellowknife iP 23 30 48	U.S.C.G.S.	iP ₁ 09 12 36.5
AUGUST 23	22.4S, 68.5W	iS ₁ 09 12 47
Mould Bay eP 12 26 03	Northern Chile	D = 86 km
AUGUST 23	H = 01 41 40.5	AUGUST 24
U.S.C.G.S.	h about 66 km	Alert
52.4N, 159.6E	Mag 4.7 (CGS)	i 09 34 03
Off East Coast of Kamchatka	Edmonton eP 01 54 08 (c)	AUGUST 24
H = 13 09 25.3	Penticton eP 01 54 09	U.S.C.G.S.
h about 33 km	Schefferville eP 01 53 28	51.0N, 179.4E
Mag 4.5 (CGS)	AUGUST 24	Rat Islands,
Alert	U.S.C.G.S.	Aleutian Islands
eP 13 17 29	54.3S, 5.2E	H = 10 58 28.2
Edmonton eP 13 18 14	Bouvet Island Region	h about 33 km
Mould Bay eP 13 16 40	H = 02 11 58.3	Mag 4.0 (CGS)
Penticton eP 13 18 09	h about 28 km	Edmonton eP 11 06 (00)
Resolute eP 13 17 (27)	Banff eP' 02 31 25	AUGUST 25
AUGUST 23	Edmonton eP' 02 31 31 d	U.S.C.G.S.
U.S.C.G.S.	Mould Bay eP' 02 31 (46)	48.7N, 148.8E
17.3S, 67.8W	Penticton iP' 02 31 37	Sea of Okhotsk
Peru-Bolivia Border	Resolute eP' 02 31 29	H = 02 20 12.7
H = 13 35 57	Victoria eP' 02 31 41	h about 134 km
h about 33 km	Yellowknife iP' 02 31 42 (d)	Mag 4.7 (CGS)
Mag 4.5 (CGS)		Penticton eP 02 29 39
Penticton eP 13 48 08		Victoria eP 02 29 28
AUGUST 23		AUGUST 25
H = 15 22 04		U.S.C.G.S.
Mag 2.1		38.9N, 38.4E
		Central Turkey
		H = 06 11 43.3
		H about 33 km
		Mag 4.8 (CGS)
		Alert
		eP 06 21 00

DOMINION OBSERVATORIES

Mould Bay		Yellowknife		AUGUST 26
eP 06 22 17		iP 12 30 32 d		U.S.C.G.S.
Penticton		PP 12 32 42		6.8S, 105.6E
eP 06 24 40				Java
Schefferville		AUGUST 25		H = 05 42 40.3
eP 06 22 33		U.S.C.G.S.		h about 33 km
Victoria		52.5N, 172.5W		Mag 5.1 (CGS)
eP 06 24 48		Andreanof Islands,		Edmonton
Yellowknife		Aleutian Islands.		eP' 06 01 36 (c)
iP 06 23 33		H = 18 44 15.5		
		h about 80 km		
AUGUST 25		Mag 4.5 (CGS)		AUGUST 26
Yellowknife		Edmonton		U.S.C.G.S.
iP 11 06 02		eP 18 51 01 c		51.6N, 157.0E
i 11 07 12		Penticton		Near East Coast of
		eP 18 50 44		Kanchatka.
				H = 08 45 32.4
AUGUST 25				h about 105 km
U.S.C.G.S.		AUGUST 26		Mag 4.7 (CGS)
17.5S, 178.8W		45°54'N, 74°53'W		Edmonton
Fiji Islands Rgion		About 3 miles East of		eP 08 54 27 c
H = 12 18 12.5		Namur, Que.		Yellowknife
H about 565 km		H = 02 41 01.8		iP 08 53 43
Mag 6 1/2(PAS),		Mag 2.2		
6-6 1/4(BRK),		Montreal		AUGUST 26
6.1 (CGS)		P ₁ 02 41 19		48°0N, 123°0W
Alert		S ₁ 02 41 32		Washington, U.S.A.
eP' 12 35 41		D = 107 km		H = 09 20 43
Halifax		Ottawa		Mag 3.1
iP' 12 36 00 d		P ₁ 02 41 15.3		Alberni
London		S ₁ 02 41 25.7		eP 09 21 10
e 12 36 03		D = 85.2 km		eS 09 21 24
Mould Bay		Scarboroughh		D = 167 km
iP 12 30 58 d		S ₁ 02 42 59		Penticton
Ottawa		D = 420 km		eP 09 21 25
eP' 12 35 43				D = 287 km
Penticton		AUGUST 26		Port Hardy
iP 12 29 48		U.S.C.G.S.		iP 09 21 41.2
Resolute		17.7S, 178.8W		D = 428 km
eP 12 31 (22)		Fiji Islands		Victoria
Scarboro		H = 04 49 43.8		iP 09 20 54.7
e 12 36 14		h about 575		iS 09 21 03.5
Schefferville		Mag 4.6 (CGS)		D = 72 km
eP' 12 35 53		Edmonton		
Victoria		eP 05 01 44 (c)		
iP 12 29 35 c		Penticton		
ipP 12 31 40		iP 05 01 19		

SEISMOLOGICAL BULLETIN - 1963

AUGUST 26
 45°10' N, 73°57'W
 About 5 miles N.E. of
 Lery, Que.
 H = 16 29 35
 Mag 3.5
 London
 S₁ 16 32 28
 D = 638 km
 Montreal
 P₁ 16 29 42.3
 S₁ 16 29 47.6
 D = 43 km
 Ottawa
 P₁ 16 29 57.4
 S₁ 16 30 14.6
 D = 141 km

AUGUST 26
 U.S.C.G.S.
 19.8N, 155.6W
 Hawaii
 H = 18 49 19
 h = about 5 km
 Mag 4.4 (CGS)
 Edmonton
 eP 18 57 48

AUGUST 27
 U.S.C.G.S.
 45.9S, 75.3W
 Near Coast of
 Southern Chile
 H = 03 23 32.6
 h about 33 km
 Mag 5.3 (CGS)
 Ottawa
 eP 03 36 (39)

AUGUST 27
 U.S.C.G.S.
 44.1N, 129.5W
 Off Coast of Oregon
 H = 05 51 37.4
 h about 33 km
 Mag 4.2 (CGS)

Edmonton
 eP 05 54 53 d
 Port Hardy
 eP 05 53 15.0 d
 Yellowknife
 iP 05 56 12

AUGUST 27
 Victoria
 e 06 43 42
 e 06 44 49

AUGUST 27
 U.S.C.G.S.
 17.7S, 70.1W
 Southern Peru
 H = 12 56 55.2
 h about 188 km
 Mag 4.2 (CGS)
 Edmonton
 eP 13 08 43 (d)
 Yellowknife
 iP 13 09 19 c

AUGUST 27
 Mould Bay
 eP 16 35 (16)

AUGUST
 H = 16 57 32
 Mag 2.5
 Penticton
 eP 16 58 10.2
 eS 16 58 40.0
 D = 244 km

AUGUST 27
 U.S.C.G.S.
 40.2N, 145.2E
 East of Honshu, Japan
 H = 22 05 55.9
 h about 55 km
 Mag 4.8 (CGS)
 Alert
 eP 22 12 (35)
 i 22 12 44
 Edmonton
 eP 22 13 31

AUGUST 27
 H = 22 22 42
 Mag 2.7
 Penticton
 eP 22 23 30.0
 eS 22 24 06.8
 D = 301 km

AUGUST 27
 U.S.C.G.S.
 16.1N, 96.9W
 Oaxaca, Mexico.
 H - 23 40 42.9
 h about 38 km
 Mag 4.3 (CGS)
 Mould Bay
 eP 23 50 56
 Penticton
 eP 23 47 59

AUGUST 28
 U.S.C.G.S.
 16.3N, 96.9W
 Oaxaca, Mexico
 H = 02 40 21.3
 h about 33 km
 Mag 3.9 (CGS)
 Edmonton
 eP 02 47 (44)

AUGUST 28
 Edmonton
 eP 07 54 (24)

AUGUST 28
 69°50'N, 73°05'W
 About 9 miles west
 of Clyde Inlet, N.W.T.
 H = 15 10 02
 Mag 4.7
 Frobisher
 P_n 15 11 49
 S_n 15 12 58
 L_g 15 13 35
 D = 705 km

SEISMOLOGICAL BULLETIN - 1963

H = 00 16 36.3 h about 33 km Mag 5.1 (CGS) Edmonton eP' 00 35 (33)	AUGUST 30 Edmonton eP 05 56 46 Penticton iP 05 56 42	AUGUST 31 H = 03 22 58 Port Hardy iP 03 23 23.0 iS 03 23 41.9 D = 154 km
AUGUST 30 Victoria eP 00 28 09	AUGUST 30 Penticton eP 10 46 16	AUGUST 31 Penticton eP 03 29 39
AUGUST 30 U.S.C.G.S. 23.3S, 66.3W Jujuy Prov., Argentina. H = 00 43 19.0 h about 239 km Mag 4.6 (CGS) Penticton iP 00 55 36 d	AUGUST 30 H = 13 47 30 Mag 2.6 Port Hardy iP 13 47 55.0 iS 13 48 14.0 D = 156 km	AUGUST 31 H = 07 52 53 Mag 2.6 Port Hardy iP 07 53 23.0 iS 07 53 45.6 D = 185 km
AUGUST 30 U.S.C.G.S. 44.8N, 80.1E China - Kasakh S.S.R. Border H = 04 46 25.0 h about 33 km Mag 4.9 (CGS) Edmonton eP 04 58 (41) Mould Bay iP 04 56 20 d i 05 01 54 Penticton eP 04 58 56 Yellowknife iP 04 57 48	AUGUST 30 U.S.C.G.S. 23.4S, 175.4W Tonga Islands H = 13 51 51.6 h about 33 km Mag 4.9 (CGS) Penticton iP 14 04 39	AUGUST 31 H = 07 56 34 Mag 2.4 Port Hardy iP 07 57 03.1 iS 07 57 25 D = 179 km
AUGUST 30 Canadian Arctic H = 05 28 36.5 Mag 2.1 Resolute P1 05 28 54.5 S1 05 29 08.2 D = 112 km	AUGUST 30 H = 19 10 03 Mag 2.6 Port Hardy iP 19 10 28.4 iS 19 10 47.7 D = 158 km	AUGUST 31 H = 08 00 11 Mag 2.0 Port Hardy iP 08 00 35.5 iS 08 00 54.0 D = 152 km
	AUGUST 30 H = 23 49 46 Mag 2.8 Alberni iP 23 50 53.4 D = 493 km Port Hardy iP 23 50 11.5 iS 23 50 30.6 D = 156 km	AUGUST 31 H = 08 23 59 Mag 2.0 Port Hardy iP 08 24 24.0 iS 08 24 43.5 D = 160 km

DOMINION OBSERVATORIES

AUGUST 31

Edmonton
eP 08 47 (22)
Mould Bay
eP 08 45 (13)
i 08 45 19
Penticton
eP 08 47 39
Yellowknife
eP 08 46 39

AUGUST 31

U.S.C.G.S.
15.9S, 74.4W
Southern Peru
H = 10 30 30.1
h about 53 km
MAG 4.1 (CGS)
Edmonton
eP 10 42 15 c

AUGUST 31

H = 12 23 21
MAG 3.0
Penticton
eP 12 24 06.5
eS 12 24 41.4
D = 286 km

AUGUST 31

U.S.C.G.S.
28.2N, 129.3E
Ryukyu Islands
H = 12 47 11
h about 33 km
MAG 4.6 (CGS)
Edmonton
eP 12 59 31

AUGUST 31

U.S.C.G.S.
11.9N, 87.0W
Off West Coast
of Nicaragua
H = 13 08 46.3
h about 48 km
MAG 4.9 (CGS)
Edmonton
eP 13 17 17 c
Ottawa
eP 13 15 (33)
Penticton
iP 13 17 07 c
Yellowknife
eP 13 18 06

AUGUST 31

U.S.C.G.S.
47.5N, 143.6E
Sakhalin Region
H = 16 29 52
h about 70 km
MAG 4.7 (CGS)
Penticton
iP 16 39 51 c

AUGUST 31

H = 18 45 32
MAG 2.2
Port Hardy
eP 18 45 56.9
eS 18 46 15.6
D = 152 km

AUGUST 31

H = 19 47 16
MAG 2.3
Port Hardy
eP 19 47 41.4
eS 19 48 00.6
D = 158 km

AUGUST 31

H = 20 34 49
MAG 2.2

Port Hardy

eP 20 35 12.4
eS 20 35 30.4
D = 148 km

AUGUST 31

H = 21 01 25
MAG 2.3
Port Hardy
eP 21 01 50.3
eS 21 02 09.4
D = 156 km

AUGUST 31

U.S.C.G.S.
21.5S, 179.2W
Fiji Islands
H = 21 26 09.3
h about 543 km
MAG 4.8 (CGS)
Penticton
iP 21 38 04 c

SEPTEMBER 1

H = 06 59 41
MAG 2.3
Port Hardy
eP 07 00 05.0
eS 07 00 23.5
D = 152 km

SEPTEMBER 1

50°4N, 129°5W
West of Vancouver
Island
H = 07 01 31
MAG 3.2
Penticton
eP 07 03 08.9
D = 736 km
Port Hardy
eP 07 01 55.0
eS 07 02 13.0
D = 148 km
Victoria
eP 07 02 37.5
D = 487 km

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 1

H = 07 06 16
MAG 2.5
Port Hardy
eP 07 06 40.5
eS 07 06 59.0
D = 152 km

Ottawa

eP 11 18 47
Penticton
iP 11 20 34 c
Schefferville
eP 11 20 (11)
Yellowknife
eP 11 21 (25)

SEPTEMBER 1

H = 15 28 15
MAG 2.3
Port Hardy
eP 15 28 37.1
eS 15 28 54.2
D = 140 km

SEPTEMBER 1

H = 07 13 52
MAG 2.9
Penticton
eP 07 15 40.0
Port Hardy
eP 07 14 14.5
eS 07 14 31.4
D = 138 km
Victoria
eP 07 15 02.6

SEPTEMBER 1

H = 14 50 13
MAG 2.6
Port Hardy
eP 14 50 37.3
eS 14 50 56.0
D = 153 km

SEPTEMBER 1

H = 16 45 11
MAG 2.5
Alberni
eP 16 46 12.6
Port Hardy
eP 16 45 36.1
eS 16 45 55.0
D = 154 km
Victoria
eP 16 46 32.6

SEPTEMBER 1

H = 07 32 11
MAG 2.3
Port Hardy
eP 07 32 35.5
eS 07 32 54.0
D = 152 km

SEPTEMBER 1

H = 15 14 41
MAG 2.1
Port Hardy
eP 15 15 05.8
eS 15 15 25.0
D = 157 km

SEPTEMBER 1

H = 18 02 59
MAG 2.7
Alberni
eP 18 03 50
Port Hardy
eP 18 03 24.3
eS 18 03 43.4
D = 157 km
Victoria
eP 18 04 12.5

SEPTEMBER 1

H = 08 19 07
MAG 2.0
Port Hardy
eP 08 19 33.4
eS 08 19 53.8
D = 166 km

SEPTEMBER 1

50°7N, 129°4W
West of Vancouver
Island
H = 15 23 55
MAG 4.0
Alberni

SEPTEMBER 1

H = 18 20 24
MAG 2.0
Port Hardy
eP 18 20 49.7
eS 18 21 09.0
D = 158 km

SEPTEMBER 1

U.S.C.G.S.
5.4N, 82.4W
South of Panama
H = 11 11 13.7
h about 61 km
MAG 4.6 (CGS)
Edmonton
eP 11 20 33 (c)

iP 15 24 43.4
D = 344 km
Edmonton
eP 15 26 (30)
Penticton
eP 15 25 30.4
D = 729 km
Port Hardy
eP 15 24 17.6
eS 15 24 35.0
D = 142 km
Victoria
eP 15 25 02.9
D = 503 km

DOMINION OBSERVATORIES

SEPTEMBER 1

H = 18 47 15

MAG 2.1

Port Hardy

eP 18 47 51.7

eS 18 48 19.6

D = 228 km

SEPTEMBER 1

H = 19 05 38

MAG 2.0

Port Hardy

eP 19 06 02.1

eS 19 06 20.7

D = 152 km

SEPTEMBER 1

50°5N, 129°5W

West of Vancouver

Island

H = 19 22 47

MAG 2.8

Alberni

eP 19 23 38

D = 360 km

Penticton

eP 19 24 24

D = 744 km

Port Hardy

eP 19 23 11.2

eS 19 23 30.0

D = 154 km

Victoria

eP 19 24 02.0

D = 562 km

SEPTEMBER 1

51°4N, 129°6W

West of Vancouver

Island

H = 22 07 28

MAG 2.7

Penticton

eP 22 09 07

D = 756 km

Port Hardy

eP 22 07 54.8

eS 22 08 15.0

D = 166 km

Victoria

eP 22 08 44.6

SEPTEMBER 1

U.S.C.G.S.

11.3N, 85.5W

Nicaragua

H = 22 57 34.4

h about 120 km

MAG 4.4 (CGS)

Edmonton

eP 23 05 56

Penticton

iP 23 06 57 d

Schefferville

eP 23 05 45 (c)

SEPTEMBER 1

U.S.C.G.S.

1.0N, 28.4W

North Atlantic Ocean

H = 23 28 08.4

h 33 km

MAG 4.5 (CGS)

Edmonton

eP 23 40 47 (d)

SEPTEMBER 1

51°6N, 129°1W

West of Vancouver

Island

H = 23 55 42

MAG 2.7

Alberni

eP 23 56 44

D = 453 km

Penticton

eP 23 57 17

D = 725 km

Port Hardy

eP 23 56 07.5

eS 23 56 27.0

D = 160 km

Victoria

eP 23 56 53.0

D = 528 km

SEPTEMBER 2

U.S.C.G.S.

33.9N, 74.7E

Northern India

H = 01 34 31.6

h 44 km

MAG 5.1 (CGS)

Alert

eP 01 44 49 c

Edmonton

eP 01 47 42 (c)

Schefferville

eP 01 47 08 (c)

Yellowknife

eP 01 46 56

SEPTEMBER 2

H = 01 36 44

MAG 2.9

Port Hardy

eP 01 37 09.3

eS 01 37 28.7

D = 159 km

Victoria

eP 01 38 16.3

D = 703 km

SEPTEMBER 2

51°5N, 129°0W

West of Vancouver

Island

H = 03 46 57

MAG 4.2

Alberni

eP 03 47 01.2

D = 474 km

Penticton

eP 03 47 34.6

D = 748 km

SEISMOLOGICAL BULLETIN - 1963

Port Hardy
eP 03 46 22.2
D = 160 km
Victoria
eP 03 47 12.6
D = 568 km

SEPTEMBER 2
H = 03 48 37
MAG 2.8
Port Hardy
eP 03 49 02.4
eS 03 49 22.0
D = 161 km

SEPTEMBER 2
H = 03 51 13
MAG 2.5
Port Hardy
eP 03 51 38.4
eS 03 51 57.8
D = 157 km

SEPTEMBER 2
U.S.C.G.S.
14.1S, 76.4W
Southern Peru
H = 04 10 18.4
h 41 km
MAG 4.5 (CGS)
Edmonton
eP 04 21 52 c

SEPTEMBER 2
U.S.C.G.S.
52.5N, 169.2W
Fox Islands
Aleutian Islands
H = 08 03 21.7
h 33
MAG 4.4 (CGS)
Edmonton
eP 08 09 55
Penticton
eP 08 09 39

SEPTEMBER 2
U.S.C.G.S.
45.4N, 150.9E
Kurile Islands
H = 11 44 00.2
h 33 km
MAG 4.5 (CGS)
Alert
eP 11 53 02
Edmonton
eP 11 53 53 d
Penticton
eP 11 53 40
Resolute
eP 11 53 12

SEPTEMBER 2
U.S.C.G.S.
18.2S, 62.6W
Bolivia
H = 13 02 07.0
h 33 km
MAG 4.5 (CGS)
Edmonton
eP 13 14 34 c

SEPTEMBER 2
50°7N, 129°7W
West of Vancouver
Island
H = 13 22 31
MAG 3.8
Alberni
eP 13 23 23.6
D = 380 km
Penticton
eP 13 24 08.6
D = 748 km
Port Hardy
eP 13 22 55.9
eS 13 23 15.2
D = 158 km
Victoria
eP 13 23 41
D = 519 km

SEPTEMBER 2
50°3N, 129°3W
West of Vancouver
Island
H = 13 27 35
MAG 4.6
Alberni
eP 13 28 27.4
D = 372 km
Edmonton
eP 13 30 10
Penticton
eP 13 29 12.6
D = 742 km
Port Hardy
eP 13 28 01.0
D = 160 km
Victoria
eP 13 28 41.0
D = 483 km

SEPTEMBER 2
H = 13 55 58
MAG 4.0
Alberni
eP 13 56 59.1
D = 446 km
Port Hardy
eP 13 56 23.0
eS 13 56 42.0
D = 156 km
Victoria
eP 13 57 15.8
D = 582 km

SEPTEMBER 2
U.S.C.G.S.
25.7N, 109.5W
Gulf of California
H = 14 10 44.7
h 33
MAG 4.8 (CGS)
Edmonton
eP 14 16 30 (c)
Mould Bay
eP 14 19 42

DOMINION OBSERVATORIES

Ottawa
eP 14 17 21
Yellowknife
eP 14 17 50

SEPTEMBER 2
52°0N, 129°5W
West of Vancouver
Island
H = 14 12 48
MAG 4.2
Alberni
eP 14 13 53.0
D = 476 km
Penticton
eP 14 14 28.0
D = 763 km
Port Hardy
eP 14 13 19.6
eS 14 13 44.2
D = 202 km
Victoria
eP 14 14 10.3
D = 616 km

SEPTEMBER 2
H = 14 24 43
MAG 3.3
Port Hardy
eP 14 25 08.2
eS 14 25 27.5
D = 158 km

SEPTEMBER 2
U.S.C.G.S.
20.7S, 175.1W
Tonga Islands
H = 19 03 23.3
h 33
MAG 4.5 (CGS)
Penticton
iP 19 16 00

SEPTEMBER 2
U.S.C.G.S.
45.4N, 150.8E
Kurile Islands
H = 23 45 00.1
h 33 km
MAG 4.9 (CGS)
Alert
eP 23 54 01
Edmonton
eP 23 54 (54)
Ottawa
eP 23 57 10
Penticton
eP 23 54 46
Schefferville
eP 23 56 41

SEPTEMBER 3
Penticton
eP 04 14 01

SEPTEMBER 3
45.4N, 150.9E
Kurile Islands
H = 05 29 39.5
h 33 km
MAG 4.5 (CGS)
Alert
eP 05 38 41
Edmonton
eP 05 39 32 (c)
Penticton
eP 05 39 22
Resolute
eP 05 38 51
Yellowknife
eP 05 38 (50)

SEPTEMBER 3
U.S.C.G.S.
51.9N, 173.5W
Andreanof Islands,
Aleutian Islands
H = 06 12 08.9
h 50 km
MAG 4.7 (CGS)
Edmonton
eP 06 19 04 d
Ottawa
eP 06 22 12
Penticton
iP 06 18 47 d

SEPTEMBER 3
U.S.C.G.S.
62.8N, 25.2W
Iceland Region
H = 09 13 31.1
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 09 21 40
Penticton
eP 09 22 23

SEPTEMBER 3
U.S.C.G.S.
61.9N, 150.4W
Kenai Peninsula, Alaska
H = 12 59 52.3
h 116 km
MAG 4.0 (CGS)
Edmonton
eP 13 04 32 d
Penticton
eP 13 04 30

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 3

U.S.C.G.S.

6.9N, 73.1W

Colombia

H = 18 37 42.6

h 143 km

MAG 4.4 (CGS)

Alert

eP 18 49 13

Penticton

eP 18 47 19

Schefferville

eP 18 46 09 c

Victoria

eP 18 47 31

Yellowknife

iP 18 47 55 c

SEPTEMBER 3

50.5N, 129.5W

West of Vancouver Island

H = 19 31 33

MAG 4.0

Alberni

eP 19 32 23.9

D = 360 km

Penticton

eP 19 33 08.2

D = 724 km

Port Hardy

eP 19 31 58.6

eS 19 32 17.9

D = 158 km

Victoria

eP 19 32 47.0

D = 549 km

SEPTEMBER 3

Penticton

eP 22 28 17

SEPTEMBER 3

Resolute

eP 22 46 (41)

i 22 46 57

i 22 47 02

SEPTEMBER 4

Edmonton

eP 01 01 43

SEPTEMBER 4

U.S.C.G.S.

52.1N, 175.2W

Andreanof Islands

Aleutian Islands

H = 03 29 54.5

h 33 km

MAG 4.1 (CGS)

Edmonton

eP 03 36 (58)

SEPTEMBER 4

U.S.C.G.S.

36.1N, 5.3E

Near Coast of Algeria

H = 05 06 47.0

h 38 km

MAG 5.2 (CGS)

Alert

i 05 15 50

Edmonton

eP 05 18 33 d

Halifax

eP 05 15 51 (d)

Ottawa

eP 05 16 47 d

Penticton

iP 05 19 04 d

Resolute

eP 05 16 (37)

Schefferville

eP 05 15 49

Scarboro

eP 05 17 09

Victoria

iP 05 19 16 d

Yellowknife

iP 05 17 59 c

SEPTEMBER 4

U.S.C.G.S.

7.9N, 82.7W

Near South Coast

of Panama

H = 10 35 34.6

h 33 km

MAG 4.1 (CGS)

Edmonton

eP 10 44 38

Penticton

eP 10 44 40

SEPTEMBER 4

U.S.C.G.S.

71.4N, 73.3W

Near East Coast of

Baffin Island

H = 13 32 12.3

h 33 km

MAG 5.9 (CGS)

Alert

eP 13 34 51

Halifax

iP 13 37 53 c

London

iP 13 38 07 c

Mould Bay

iP 13 35 20 c

iS 13 38 07

Ottawa

iP 13 37 41

iS 13 42 05

Penticton

eP 13 38 25

Resolute

eP 13 33 53 (c)

Scarborough

iP 13 37 59 c

Schefferville

iP 13 35 57 c

Victoria

eP 13 38 41

DOMINION OBSERVATORIES

SEPTEMBER 4

U. S. C. G. S.
71.4N, 73.3W
Near Coast of Baffin
Island, N. W. T.
H = 13 32 12.3
h 33
MAG 5.9 (CGS),
6.38 Pas, 6.0 Bks

Alert

Pn 13 34 51
D = 1300 km

Edmonton

eP 13 37 (19)

London

P 13 38 07
S 13 43 49
Lg 13 46 30
D = 3170 km

Mould Bay

Pn 13 35 20
Sn 13 37 48
D = 1540 km

Ottawa

P 13 37 41
S 13 42 13
Lg 13 45 43
D = 2880 km

Resolute

Pn 13 33 54
D = 829 km

Schefferville

Pn 13 35 57
Sn 13 38 47
D = 1810 km

Yellowknife

Pn 13 36 17
D = 1975 km

SEPTEMBER 4

71.4N, 73.3W
Near Coast of Baffin
Island, N. W. T.
H = 13 56 21
MAG 4.5

Alert

Pn 13 59 05
Sn 14 01 10
D = 1300 km
Yellowknife
Lg 14 05 35
D = 1975 km

SEPTEMBER 4

71.4N, 73.3W
Near Coast of Baffin
Island, N. W. T.
H = 14 05 13
MAG 5.0

Alert

Pn 14 07 57
Sn 14 10 01
D = 1300 km

Yellowknife

Sn 14 12 30
Lg 14 14 28
D = 1975 km

SEPTEMBER 4

71.4N, 73.3W
Near Coast of Baffin
Island, N. W. T.
H = 14 21 21
MAG 4.8

Alert

Pn 14 24 04
Sn 14 26 07
D = 1300 km

Resolute

Pn 14 23 07
Sn 14 24 24
Lg 14 25 07
D = 829 km

Schefferville

Pn 14 25 11
Sn 14 28 10
Lg 14 29 55
D = 1810 km

Yellowknife

Sn 14 28 36
Lg 14 30 32
D = 1975 km

SEPTEMBER 4

71.4N, 73.3W
Near Coast of Baffin
Island, N. W. T.
H = 15 06 21
MAG 4.7

Alert

Pn 15 09 05
Sn 15 11 08
D = 1300 km

Resolute

Pn 15 08 08
Sn 15 09 25
Lg 15 10 09
D = 829 km

Schefferville

Sn 15 13 05
Lg 15 14 55
D = 1810 km

Yellowknife

Lg 15 15 32
D = 1975 km

SEPTEMBER 4

71.4N, 73.3W
Near Coast of Baffin
Island, N. W. T.
H = 15 14 25
MAG 4.5

Alert

Sn 15 19 13
D = 1300 km

Resolute

Pn 15 16 11
Sn 15 17 27
Lg 15 18 10
D = 829 km

Schefferville

Sn 15 21 11
Lg 15 22 56
D = 1810 km

Yellowknife

Lg 15 23 37
D = 1975 km

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 4

71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.

H = 15 26 16.7
MAG 5.1

Alert

Pn 15 28 58
Sn 15 31 00
D = 1300 km

Ottawa

Lg 15 39 30
D = 2880 km

Resolute

Pn 15 28 03
Sn 15 29 20
Lg 15 30 00
D = 829 km

Schefferville

Pn 15 30 03
Sn 15 33 00
Lg 15 34 48
D = 1810 km

Yellowknife

Sn 15 33 (30)
Lg 15 35 28
D = 1975 km

SEPTEMBER 4

Resolute

eP 17 47 25
i 17 47 44

SEPTEMBER 4

Resolute

eP 18 59 22
i 19 00 38

SEPTEMBER 4

H = 19 21 21
MAG 2.5

Penticton

eP 19 21 48.6
eS 19 22 18.0
D = 240 km

SEPTEMBER 4

71.4N, 73.3W
Near Coast of Baffin
Island, N.W.T.

H 19 57 37.7
MAG 5.1

Alert

Pn 19 00 20
Sn 19 02 22
D = 1300 km

Ottawa

Lg 19 10 50
D = 2880 km

Resolute

Pn 18 59 21
19 00 37
19 01 23
D = 829 km

Schefferville

Pn 19 01 26
Sn 19 04 23
Lg 19 06 (12)
D = 1810 km

Yellowknife

Sn 19 04 (52)
Lg 19 06 (48)
D = 1975 km

Montreal

Lg 19 10 50
D = 2865 km

SEPTEMBER 4

Penticton

eP 19 11 42

SEPTEMBER 4

U.S.C.G.S.

71.5N, 72.8W

Baffin Island

H = 21 20 18.5
h 33 km
MAG 4.1 (CGS)
5.7 (D.O)

Alert

Pn 21 23 00
Sn 21 25 02
D = 1300 km

Edmonton

eP 21 25 45

Montreal

Lg 21 33 28
D = 2865 km

Mould Bay

eP 21 23 (28)
i 21 25 55
i 21 27 46

Ottawa

Lg 21 33 30
D = 2880 km

Resolute

Pn 21 22 00
Sn 21 23 17
Lg 21 24 00
D = 829 km

Schefferville

Pn 21 24 05
Sn 21 27 04
Lg 21 28 49
D = 1810 km

Yellowknife

Pn 21 24 20
Sn 21 27 34
Lg 21 29 31
D = 1975 km

SEPTEMBER 4

U.S.C.G.S.

71.6N, 73.5W

Near Coast of Baffin
Island, N.W.T.

H = 21 41 00.6
MAG 4.4 (CGS)
5.8 (D.O)

Alert

Pn 21 43 39
Sn 21 45 43
D = 1300 km

Montreal

Lg 21 54 10
D = 2865 km

Mould Bay

Pn 21 44 08
Sn 21 46 (36)
Lg 21 47 (18)
D = 1540 km

DOMINION OBSERVATORIES

Ottawa	SEPTMBER 4	Victoria
Lg 21 54 25	71.4N, 73.3W	eP 11 37 35
D = 2880 km	Near Coast of Baffin	
Resolute	Island, N.W.T.	SEPTMBER 5
Pn 21 42 39	H = 23 03 22.5	Penticton
Sn 21 43 55	MAG 5.0	eP 12 16 10
D = 829 km	Resolute	
Schefferville	Pn 23 05 05	SEPTMBER 5
Pn 21 44 42	Sn 23 06 20	Penticton
Sn 21 47 45	Lg 23 07 (07)	eP 14 24 14
Lg 21 49 32	D = 829 km	
D = 1810 km	Schefferville	SEPTMBER 5
Yellowknife	Pn 23 07 11	71.4N, 73.3W
Pn 21 45 04	Sn 23 10 07	Near Coast of Baffin
Sn 21 48 20	Lg 23 11 52	Island, N.W.T.
Lg 21 50 -	D = 1810 km	H = 14 45 23
D = 1975 km	Yellowknife	MAG 4.0
	Sn 23 10 (36)	Resolute
SEPTMBER 4	Lg 23 12 (35)	Pn 14 47 09
71.4N, 73.3W	D = 1975 km	Sn 14 48 27
Near Coast of Baffin		Lg 14 49 06
Island, N.W.T.	SEPTMBER 5	D = 829 km
H = 22 15 06	Edmonton	
MAG 5.0	eP 09 49 54	SEPTMBER 5
Resolute		Penticton
Pn 22 16 50		eP 14 57 32
Sn 22 18 04		Yellowknife
Lg 22 18 (50)		eP 14 54 (32)
D = 829 km		
Shefferville	SEPTMBER 5	
Pn 22 18 53	50.3N, 129.1W	SEPTMBER 5
Sn 22 21 48	West of Vancouver Island	71.4N, 73.3W
Lg 22 23 37	H = 11 36 32	Near Coast of Baffin
D = 1810 km	MAG 4.2	Island, N.W.T.
Yellowknife	Edmonton	H = 22 26 28
Sn 22 22 (16)	eP 11 39 (01)	MAG 4.8
Lg 22 24 (16)	Penticton	Alert
D = 1975 km	eP 11 38 03.4	Sn 22 30 03
	Port Hardy	D = 1300 km
SEPTMBER 4	eP 11 36 52.0	Resolute
Halifax	eS 11 37 10.7	Pn 22 28 14
eP 21 53 09	D = 153 km	Sn 22 29 30
	Resolute	Lg 22 30 (13)
SEPTMBER 4	iP 11 35 42	D = 829 km
Victoria	i 11 35 45.5	
eP 21 57 31	i 11 35 50	

SEISMOLOGICAL BULLETIN - 1963

Schefferville

Pn 22 30 07
 Sn 22 33 12
 Lg 22 34 55
 D = 1810 km

Yellowknife

Sn 22 33 (38)
 Lg 22 35 (28)
 D = 1975 km

SEPTEMBER 5

Penticton

eP 22 42 21

SEPTEMBER 5

U. S. C. G. S.

18.6N, 106.8W

Off Coast of Jalisco,
 Mexico

H = 23 43 05.0

h 33 km

Mag 5.4 (CGS)

Edmonton

eP 23 49 54

SEPTEMBER 6

U. S. C. G. S.

71.5N, 73.0W

Near East Coast of Baffin
 Island, N. W. T.

H = 01 46 13.3

Mag 4.4 (CGS)

5.8 (D.O.)

Alert

Pn 01 48 54

i 01 50 50

Sn 01 50 56

D = 1300 km

Edmonton

eP 01 51 (40)

London

Lg 02 00 50

D = 3170 km

Montreal

Pn 01 51 43

Sn 01 56 13

Lg 01 59 25

D = 2865 km

Mould Bay

Pn 01 49 24

Sn 01 51 (54)

Lg 01 53 (20)

D = 1540 km

Ottawa

Pn 01 51 44

Sn 01 56 (35)

Lg 01 59 30

D = 2880 km

Resolute

Pn 01 47 57

Sn 01 49 13

Lg 01 49 (57)

D = 829 km

Schefferville

Pn 01 49 58

Sn 01 53 00

Lg 01 54 47

D = 1810 km

Yellowknife

Pn 01 50 19

Sn 01 53 28

Lg 01 55 24

D = 1975 km

SEPTEMBER 6

Victoria

eP 02 02 50

SEPTEMBER 6

Schefferville

eP 03 57 (02)

SEPTEMBER 6

Yellowknife

eP 03 59 36

SEPTEMBER 6

71.4N, 73.3W

Near East Coast of

Baffin Island, N. W. T.

H = 05 55 55

Mag 4.6

Resolute

Pn 05 57 41

Sn 05 58 56

Lg 05 59 (35)

D = 829 km

Schefferville

Lg 06 04 (25)

D = 1810 km

Yellowknife

eP 06 05 (06)

SEPTEMBER 6

U. S. C. G. S.

36.4N, 130.6E

Sea of Japan

H = 06 03 52.1

h 33 km

Mag 5.4 (CGS)

Alert

eP 06 14 04

Edmonton

(eP) 06 15 31

Mould Bay

iP 06 13 52

Sn 06 22 (04)

Penticton

eP 06 15 23

Resolute

eP 06 14 30

Schefferville

eP 06 16 41

DOMINION OBSERVATORIES

Victoria		SEPTEMBER 6		Edmonton
eP	06 15 21	U.S.C.G.S.		eP
Yellowknife		53.9N, 165.6W		01 28 36 d
iP	06 14 54 c	Fox Island,		Mould Bay
		Aleutian Islands		eP
SEPTEMBER 6		H = 20 56 59.9		01 26 (56)
Mould Bay		h 33 km		eS
iP ₁	09 17 02	MAG 5.0 (CGS)		01 35 (05)
iS ₁	09 17 17	Alert		Penticton
		i		eP
SEPTEMBER 6		Edmonton		01 28 32
U.S.C.G.S.		eP		Victoria
24.0S, 179.9E		21 03 (11)		eP
Kermadec Islands Region		Schefferville		01 28 32
H = 10 16 38.9		eP		Yellowknife
h 500 km		21 06 13		eP
MAG 5.2 (CGS)		Penticton		01 27 (56)
Edmonton		eP		SEPTEMBER 7
eP	10 29 12 c	Victoria		U.S.C.G.S.
Penticton		eP		21.5S, 174.6W
iP	10 28 48 c	Yellowknife		Tonga Islands
Victoria		eP		H = 02 29 38.3
eP	10 28 32 c	21 02 47		h 33 km
		SEPTEMBER 6		MAG 5.1 (CGS)
SEPTEMBER 6		U.S.C.G.S.		Edmonton
Penticton		44.3N, 114.7W		eP
eP	19 25 10	Central Idaho		02 42 42
		H = 22 19 35.2		Penticton
SEPTEMBER 6		h 33 km		iP
50.1N, 129.5W		MAG 4.1 (CGS)		02 42 17
West of Vancouver Island		Penticton		SEPTEMBER 7
H = 20 31 46		eP		71.4N. 73.3W
MAG 4.4		22 21 08		Near East Coast of
Penticton		SEPTEMBER 7		Baffin Island, N.W.T.
eP	20 33 19	Penticton		H = 03 03 47.3
Port Hardy		eP		MAG 5.0
eP	20 32 07.9	00 03 40		Alert
Victoria		SEPTEMBER 7		Pn
eP	20 32 49	U.S.C.G.S.		03 06 28
		36.4N, 130.6E		Sn
		Off East Coast of		03 08 30
		South Korea		D = 1300 km
		H = 01 16 55.1		Edmonton
		h 33 km		eP
		MAG 5.3 (CGS)		03 09 (12)
		Alert		Resolute
		eP		Pn
		01 27 06		03 05 32
				Sn
				03 06 46
				Lg
				03 07 30
				D = 829 km

SEISMOLOGICAL BULLETIN - 1963

Schefferville

Pn 03 07 36
Sn 03 10 32
Lg 03 12 20

D = 1810 km

Yellowknife

Pn 03 08 03
Sn 03 11 (00)
Lg 03 12 (56)

D = 1975 km

SEPTEMBER 7

Penticton

eP 03 17 16

SEPTEMBER 7

U.S.C.G.S.

45.4N, 150.8E

Kurile Islands

H = 07 13 39.9

h 33 km

MAG 5.2 (CGS)

Alert

eP 07 22 41 c

Edmonton

eP 07 23 (33)

Ottawa

eP 07 25 49

Penticton

eP 07 23 25

Resolute

eP 07 22 52

i 07 22 57.5

Schefferville

eP 07 25 21 c

Yellowknife

eP 07 22 55

SEPTEMBER 7

Canadian Arctic

H = 03 10 53.4

MAG 0.8

Resolute

P₁ 03 10 56

S₁ 08 10 58

D = 16.4 km

SEPTEMBER 7

Edmonton

eP 09 02 09 c

SEPTEMBER 7

U.S.C.G.S.

54.0N, 160.3E

Kamchatka

H = 12 44 01.1

h 110 km

MAG 5.4 (CGS)

Alert

eP 12 51 44 c

Edmonton

iP 12 52 31 c

Halifax

iP 12 55 31

Mould Bay

iP 12 50 55

Ottawa

eP 12 55 02

Penticton

iP 12 52 (27) c

Resolute

iP 12 51 47 c

Schefferville

iP 12 54 30 c

Victoria

eP 12 52 14 (c)

Yellowknife

iP 12 51 47 (c)

SEPTEMBER 7

U.S.C.G.S.

27.8N, 141.5E

Bonin Island Region

H = 22 00 58.9

h 50 km

MAG 4.9 (CGS)

Alert

eP 22 12 03 (c)

Edmonton

eP 22 12 45

Victoria

eP 22 12 25

Yellowknife

iP 22 12 17 (d)

SEPTEMBER 8

U.S.C.G.S.

28.1S, 176.8W

Kermadec Islands Region

H = 00 47 27.7

h 57 km

MAG 5.3 (CGS)

Victoria

e 01 11 23 (c)

SEPTEMBER 8

H = 01 14 13

MAG 2.0

Penticton

eP 01 15 46.5

Port Hardy

eP 01 14 37.2

eS 01 14 55.6

D = 151 km

Victoria

eP 01 15 17

SEPTEMBER 8

U.S.C.G.S.

12.3N, 87.9W

Near Coast of El Salvador

H = 05 28 37.8

h 31 km

MAG 4.1 (CGS)

Edmonton

eP 05 36 56

SEPTEMBER 8

U.S.C.G.S.

36.2S, 100.5W

1500 km Southeast of

Easter Island

H = 09 06 16.0

h 33 km

MAG 4.7 (CGS)

Ottawa

eP 09 18 (46)

Victoria

eP 09 19 03

DOMINION OBSERVATORIES

SEPTEMBER 8

Yellowknife
eP 15 47 35
(i) 15 47 (46)

SEPTEMBER 8

71.4N, 73.3W
Near East Coast of
Baffin Island, N. W. T.
H = 15 38 39
MAG 4.8

Edmonton
eP 15 51 (25)
Resolute
Pn 15 40 24
Sn 15 41 40
Lg 15 42 25
D = 829 km
Schefferville
Pn 14 42 25
Sn 15 45 23
Lg 15 47 09
D = 1810 km

SEPTEMBER 8

48.5N, 123.0W
Olympic Mountain, USA
H = 15 53 33
MAG 2.5
Alberni
eP 15 54 13
D = 273 km
Penticton
eP 15 54 21.3
D = 339 km
Victoria
iP 15 53 54.1
eS 15 54 10
D = 130 km

SEPTEMBER 8

50.4N, 128.1W
Quatsino Sound
H = 16 27 37
MAG 2.8

Penticton

eP 16 29 09
D = 700 km
Port Hardy
eP 16 27 47.1
eS 16 27 54.8
D = 63 km
Victoria
eP 16 28 33
D = 405 km

SEPTEMBER 8

U.S.C.G.S.
23.6S, 179.8E
Fiji Islands Region
H = 19 50 29.8
h 550 km
MAG 5.7 (CGS)
Alert
eP' 20 08 11
Edmonton
eP 20 02 57 c
Ottawa
eP' 20 08 10 c
Resolute
eP' 20 08 02
Schefferville
eP' 20 08 (22)
Shawinigan Falls
eP' 20 08 15 c
i 09 40
Victoria
iP 20 02 22 c
Yellowknife
eP 20 03 17
i 20 07 (29)

SEPTEMBER 8

Mould Bay
iP 20 07 52
S 20 14 44

SEPTEMBER 8

Victoria
eP 20 28 16

SEPTEMBER 9

Yellowknife
(eP) 02 05 11

SEPTEMBER 9

U.S.C.G.S.
4.4S, 152.7E
New Britain
H = 02 45 45.5
h 34 km
MAG 5.6 (CGS)

Alert

eP 02 59 30
i 03 15 41
Edmonton
eP 02 59 09
Halifax
eP' 03 04 51
Mould Bay
iP 02 58 59
eS 03 10 17
Ottawa
eP' 03 04 36 d
Schefferville
eP' 03 04 34
Shawinigan Falls
iP' 03 04 39 d
Victoria
eP 02 58 38
Yellowknife
eP 02 59 06
i 03 03 49
i 03 16 00.5

SEPTEMBER 9

Victoria
eP 03 03 42

SEPTEMBER 9

Edmonton
(eP) 03 15 59

SEPTEMBER 9

Victoria
eP 03 24 21

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 9

H = 05 18 32
MAG 2.8
Port Hardy
eP 05 18 57.6
eS 05 19 16.8
D = 158 km
Victoria
eP 05 19 39

SEPTEMBER 9

49.6N, 130.4W
West of Vancouver Island
H = 07 27 52
MAG 2.8
Port Hardy
iP 07 28 15.5
eS 07 28 33.4
D = 147 km
Victoria
eP 07 28 57
D = 396 km

SEPTEMBER 9

Yellowknife
eP 13 06 15

SEPTEMBER 9

H = 13 57 45
MAG 2.0
Port Hardy
eP 13 58 09.7
eS 13 58 28.5
D = 154 km

SEPTEMBER 9

Yellowknife
(eP) 14 16 (55)
i 14 17 02

SEPTEMBER 9

71.4N, 73.3W
Near East Coast of
Baffin Island, N. W. T.
H = 22 33 17
MAG 4.6
Resolute
Pn 22 35 03
Sn 22 36 22
Lg 22 37 02
D = 829
Schefferville
Sn 22 40 01
Lg 22 41 52
D 1810 km
Yellowknife
Sn 20 40 (22)
Lg 20 42 (21)
D = 1975 km

SEPTEMBER 9

Shawinigan Falls
eP 22 45 52

SEPTEMBER 10

U. S. C. G. S.
59.3N, 151.6W
Kenai Peninsula
H = 11 29 33.4
h 30 km
MAG 4.2 (CGS)
Edmonton
eP 11 34 (23)
Mould Bay
iP 11 34 14

SEPTEMBER 10

U. S. C. G. S.
53.8N, 159.9W
Alaska Peninsula Region
H = 17 01 07.3
h 33 km
MAG 5.3 (CGS)
Alert
eP 17 08 26 (d)

Mould Bay

iP 17 06 52
S 17 11 (34)
Schefferville
eP 17 10 03
Yellowknife
iP 17 06 31 c

SEPTEMBER 10

U. S. C. G. S.
55.2N, 157.1W
Alaska Peninsula Region
H = 18 03 30.7
h 33 km
MAG 4.1 (CGS)
Edmonton
eP 18 08 57
Mould Bay
iP 18 09 02

SEPTEMBER 10

U. S. C. G. S.
19.0S, 175.8E
Tonga Islands Region
H = 19 14 26.8
h 33 km
MAG 5.3 (CGS)
Edmonton
(eP) 19 27 44
Victoria
eP 19 27 07

SEPTEMBER 11

U. S. C. G. S.
12.3N, 59.5W
Windward Islands Region
H = 00 52 58.7
h 33 km
MAG 4.2 (CGS)
Edmonton
(eP) 01 02 56

DOMINION OBSERVATORIES

<p>SEPTEMBER 11 U.S.C.G.S. 44.3N, 114.7W Central Idaho H = 02 08 44.7 h 15 km MAG 4.9 (CGS) Edmonton eP 02 10 55 Mould Bay iP 02 15 14 eS 02 25 (20) Victoria eP 02 10 33 Yellowknife eP 02 12 56 i 02 18 20</p>	<p>SEPTEMBER 11 U.S.C.G.S. 33.2N, 110.7W Arizona H = 11 59 41.2 h 33 km MAG 4.1 (CGS) Edmonton eP 12 04 (18)</p>	<p>Alert eP 08 28 33 c Edmonton eP 08 31 40 c Schefferville eP 08 29 46 c Shawinigan Falls eP 08 30 33 c</p>
<p>SEPTEMBER 11 Shawinigan Falls e 02 24 (04)</p>	<p>SEPTEMBER 11 48.4N, 130.1W West of Vancouver Island H = 19 13 49 MAG 2.8 Port Hardy eP 19 14 35.6 eS 19 15 15.4 D = 326 km Victoria eP 19 15 06.8 D = 500 km</p>	<p>SEPTEMBER 12 Edmonton eP 10 09 21 c</p>
<p>SEPTEMBER 11 Edmonton eP 04 23 (19)</p>	<p>SEPTEMBER 11 Schefferville eP 19 36 56</p>	<p>SEPTEMBER 12 Edmonton eP 12 31 (13)</p>
<p>SEPTEMBER 11 Canadian Arctic H = 04 20 31 MAG Yellowknife Pn 04 21 50 Sn 04 22 50 Lg 04 23 20 D = 600 km</p>	<p>SEPTEMBER 11 Schefferville eP 19 36 56</p>	<p>SEPTEMBER 12 U.S.C.G.S. 7.7N, 35.9W North Atlantic Ocean H = 13 10 17.9 h 33 km MAG 5.0 (CGS) Alert eP 13 22 01 (c) Edmonton eP 13 22 06 c Schefferville eP 13 19 34 c</p>
<p>SEPTEMBER 11 U.S.C.G.S. 3.5S, 131.2E Ceram H = 08 59 37.6 h 33 km MAG 5.7 (CGS) Mould Bay eP 09 13 11</p>	<p>SEPTEMBER 12 U.S.C.G.S. 44.2N, 114.8W Central Idaho H = 06 23 51.7 h 33 km MAG 4.4 (CGS) Edmonton eP 06 26 00 Victoria eP 06 25 38</p>	<p>SEPTEMBER 12 U.S.C.G.S. 29.1N, 105.6W Chihuahua Mexico H = 10 51 56.6 h 33 km MAG 4.7 (CGS) Edmonton eP 10 57 (17) Victoria eP 10 57 07</p>
<p>SEPTEMBER 11 U.S.C.G.S. 3.5S, 131.2E Ceram H = 08 59 37.6 h 33 km MAG 5.7 (CGS) Mould Bay eP 09 13 11</p>	<p>SEPTEMBER 12 U.S.C.G.S. 34.9N, 32.2E Cyprus H = 08 18 57.9 h 55 km MAG 5.0 (CGS)</p>	<p>SEPTEMBER 13 Alert eP 11 01 (33)</p>

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 13

Canadian Arctic
H = 12 13 18.5
MAG 1.8
Resolute
P1 12 13 22
Si 12 13 25
D = 24.6 km

SEPTEMBER 13

Resolute
iP 12 14 22 d
i 12 14 25

SEPTEMBER 13

Ottawa
eP 15 01 01

SEPTEMBER 13

Alert
iP 17 08 48 c
Edmonton
eP 17 03 50 c
Halifax
iP 17 07 35 c
Mould Bay
iP 17 07 32 c
iS 17 13 28
Ottawa
eP 17 06 20
Resolute
iP 17 07 27 c
i 17 09 38
Schefferville
eP 17 07 16 c
Shawinigan Falls
eP 17 06 (38)
Victoria
eP 17 02 53
Yellowknife
iP 17 05 28 c

SEPTEMBER 13

U. S. C. G. S.
53.0N, 175.0W
Andreanof Islands,
Aleutian Islands
H = 23 02 07.2
h 220 km
MAG 4.9 (CGS)
Alert
eP 23 09 28 c
Edmonton
eP 23 08 47 c
Mould Bay
eP 23 08 09
Schefferville
eP 23 11 32 d
Yellowknife
eP 23 08 18

SEPTEMBER 14

U. S. C. G. S.
3.5S, 131.2E
Ceram Region
H = 00 15 45.2
h 33 km
MAG 4.4 (CGS)
Mould Bay
eP 00 29 (19)

SEPTEMBER 14

U. S. C. G. S.
22.0N, 121.3E
Southern Formosa
H = 02 13 41.2
h 90 km
MAG 5.0 (CGS)
Alert
eP 02 25 18 c
Mould Bay
iP 02 25 16
Resolute
eP 02 25 45 c

SEPTEMBER 14

U. S. C. G. S.
33.3N, 118.6W
Off Coast of Southern
California
H = 03 51 13.6
h 14 km
MAG 4.8 (CGS)
Edmonton
eP 03 55 50 (c)
Mould Bay
eP 03 59 17 d

SEPTEMBER 14

U. S. C. G. S.
31.4S, 179.0W
Kermadec Islands
H = 03 52 16.9
h 33 km
MAG 4.9 (CGS)
Ottawa
eP 04 11 09

SEPTEMBER 14

Victoria
eP 04 35 47

SEPTEMBER 14

U. S. C. G. S.
42.2N, 142.3E
Near South Coast of
Japan
H = 06 45 08.3
h 50 km
MAG 4.3 (CGS)
Edmonton
eP 06 55 44 d

DOMINION OBSERVATORIES

SEPTEMBER 14

U. S. C. G. S.
19. 0N, 145. 0E
Mariana Islands Region
H = 07 17 18.5
h 610 km
MAG 5.0 (CGS)
Alert
eP 07 28 16 (d)
Edmonton
eP 07 28 36
Mould Bay
iP 07 27 49 d
Resolute
eP 07 28 22 d
Yellowknife
iP 07 28 16

SEPTEMBER 14

U. S. C. G. S.
25. 5N, 142. 6E
Volcano Islands Region
H = 09 26 46.9
h 43 km
MAG 4.5 (CGS)
Edmonton
eP 09 38 41 c
Mould Bay
eP 09 37 39

SEPTEMBER 14

U. S. C. G. S.
20. 1S, 68. 2W
Bolivia - Chile Border
H = 11 48 18.0
h 33 km
MAG 4.4 (CGS)
Edmonton
eP 12 00 40 d

SEPTEMBER 14

U. S. C. G. S.
44. 2N, 114. 8W
Central Idaho
H = 15 58 03.8
h 33 km
MAG 4.3 (CGS)
Edmonton
eP 16 00 (12)

SEPTEMBER 14

U. S. C. G. S.
33. 6S, 126. 7W
South Pacific Ocean
H = 16 16 51.8
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 16 29 35

SEPTEMBER 14

Edmonton
eP 16 42 (13)

SEPTEMBER 14

U. S. C. G. S.
36. 7N, 121. 8W
Monterey County,
California
H = 19 46 15.8
h 15 km
MAG 5.4 (CGS)
Edmonton
eP 19 50 21
Mould Bay
eP 19 53 52 d
Resolute
eP 19 53 55 d
Victoria
eP 19 49 10

SEPTEMBER 14

U. S. C. G. S.
36. 7N, 122. 0W
Monterey County,
California
H = 20 28 08.5
h 15 km
MAG 4.3 (CGS)
Edmonton
eP 20 32 (14)

SEPTEMBER 15

U. S. C. G. S.
10. 3S, 165. 6E
Santa Cruz Islands
H = 00 46 54.1
h 43 km
MAG 6.3 (CGS)
Alert
eP 01 01 (02)
Edmonton
eP 01 00 03 d
Halifax
eP' 01 05 53
Mould Bay
iP 01 00 20 d
eS 01 10 59
Resolute
eP 01 00 46 d
Schefferville
eP' 01 05 (45)
Shawinigan Falls
eP' 01 05 (43)
e 01 06 58
Victoria
eP 00 59 24
Yellowknife
eP 01 00 (07)

SEPTEMBER 15
Edmonton
eP 02 10 47
Mould Bay
eP 02 11 (06)

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 15 U.S.C.G.S. 44.3N, 114.8W Central Idaho H = 05 35 00.2 h 33 km Mag 3.9 (CGS) Edmonton eP 05 37 (11)	Komandorskie Islands Region H = 09 43 55.3 h 33 km Mag 4.7 (CGS) Edmonton eP 09 52 07 Mould Bay eP 09 50 35 d	eP 16 17 24 Mould Bay eP 16 19 (47)
SEPTEMBER 15 U.S.C.G.S. 25.2N, 141.0E Volcano Islands Region H = 20 29 50.0 h 33 km Mag 4.3 (CGS) Mould Bay iP 20 40 (47) d	SEPTEMBER 16 U.S.C.G.S. 44.2N, 114.7W Central Idaho H = 12 06 15.9 h 33 km Mag 4.2 (CGS) Edmonton eP 12 08 25	SEPTEMBER 16 U.S.C.G.S. 43.2N, 126.8W Off Coast of Oregon H = 17 15 34.5 h 33 km Mag 4.7 (CGS) Mould Bay eP 17 22 13
SEPTEMBER 15 U.S.C.G.S. 63.2N, 152.0W Central Alaska H = 22 03 49.5 h 122 km Mag 3.9 (CGS) Mould Bay eP 22 07 (41) Yellowknife eP 22 07 36	SEPTEMBER 16 Mould Bay eP 15 06 20	SEPTEMBER 16 Victoria eP 20 44 (30)
SEPTEMBER 16 U.S.C.G.S. 22.4N, 120.5E Southern Formosa H = 00 06 50.8 h 33 km Mag 4.8 (CGS) Mould Bay eP 00 18 30 c	SEPTEMBER 16 U.S.C.G.S. 52.8N, 171.0W Andreanof Islands, Aleutian Islands. H = 15 11 52.0 h 140 km Mag 4.2 (CGS) Edmonton eP 15 18 23 Mould Bay eP 15 17 57	SEPTEMBER 17 50°.2N, 129°.2W Queen Charlotte Sound H = 00 22 57 Mag 4.0 Port Hardy eP 00 23 19.3 eS 00 23 36.4 D = 140 km Victoria eP 00 24 00 D = 462 km
SEPTEMBER 16 U.S.C.G.S. 78.6N, 6.7E Svalbard Region H = 16 14 45.0 h 33 km Mag 4.3 (CGS) Alert	SEPTEMBER 16 U.S.C.G.S. 10.6S, 78.2W Central Peru H = 05 54 33.7 h 61 km Mag 5.5 (CGS) Alert eP 06 07 42 (d) Edmonton iP 06 05 41 d Halifax eP 06 04 13	

DOMINION OBSERVATORIES

London iP 06 03 48 d	Resolute eP 19 34 (05)	h 33 km Mag 5.2 (CGS)
Mould Bay iP 06 07 28 i 06 17 (52)	Scarborough eP 19 35 (03)	Edmonton eP 22 41 (40)
Ottawa eP 06 04 04.8 iP 06 04 23	Schefferville eP 19 39 03	SEPTEMBER 18 U.S.C.G.S. 10.7S, 165.1E
Resolute eP 06 07 (07)	Shawinigan Falls eP 19 38 (57) i 19 40 14	Santa Cruz Islands H = 01 55 46.2 h 28 km Mag 5.0 (CGS)
Scarborough eP 06 03 53	Victoria eP 19 32 47	Victoria eP 02 08 25 (c)
Shawinigan Falls eP 06 04 15	Yellowknife iP 19 33 29	
Victoria eP 06 05 48 d	SEPTEMBER 17 Ottawa eP 19 35 (12)	SEPTEMBER 18 H = 12 12 00 Mag 2.1
Yellowknife iP 06 06 27	SEPTEMBER 17 U.S.C.G.S. 10.1S, 165.0E	Port Hardy eP 12 12 15.0 eS 12 12 26.1 D = 91 km
SEPTEMBER 17 U.S.C.G.S. 1.5S, 77.9W	Santa Cruz Islands H = 19 57 40.3 h 36 km Mag 4.8 (CGS)	SEPTEMBER 18 U.S.C.G.S. 38.5N, 57.2E
Ecuador H = 07 34 38.7 h 178 km Mag 4.0 (CGS)	Victoria eP 20 10 16	Turkmen S.S.R. H = 15 42 02.7 h 33 km Mag 5.1 (CGS)
Mould Bay iP 07 46 35 c	SEPTEMBER 17 U.S.C.G.S. 9.9S, 164.7E	Mould Bay eP 15 52 44
SEPTEMBER 17 U.S.C.G.S. 10.1S, 165.3E	Santa Cruz Islands H = 20 00 56.6 h 33 km Mag 5.3 (CGS)	SEPTEMBER 18 U.S.C.G.S. 40.9N, 29.2E
Santa Cruz Islands H = 19 20 08.2 h 17 km Mag 6.1 (CGS)	Edmonton (eP) 20 14 09	Turkey H = 16 58 12.5 h 33 km Mag 5.2 (CGS)
Alert e(P) 19 34 (20)	Victoria eP 20 13 33	
Edmonton eP 19 33 21 (c)	SEPTEMBER 17 U.S.C.G.S. 10.2S 165.1E	
Halifax eP 19 39 12 c	Santa Cruz Island H = 22 28 29.6	
Mould Bay iP 19 33 38 i 19 44 19		

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 18
 U.S.C.G.S.
 40.9N, 29.2E
 Turkey
 H = 16 58 12.5
 h 33 km
 Mag 5.2 (CGS)
 Alert
 eP 17 07 06 c
 Halifax
 iP 17 08 48 c
 London
 eP 17 09 55 c
 Mould Bay
 iP 17 08 28
 Resolute
 eP 17 08 11
 Schefferville
 eP 17 08 24 d
 Shawinigan Falls
 eP 17 09 (14)
 Victoria
 eP 17 10 58

SEPTEMBER 18
 Edmonton
 (eP) 18 16 30

SEPTEMBER 18
 68°30' N, 70°05'W
 About 100 Miles S. of
 Clyde Inlet, N.W.T.
 H = 18 36 13.6
 Mag 4.8
 Frobisher
 Pn 00 00 00
 Sn-Pn 00' 56"
 Lg-Pn 01' 19.5"
 D = 535 km
 Mould Bay
 Lg 18 44 50
 D = 1790 km
 Resolute
 Pn 18 38 30.5
 Sn 18 40 14

Lg 18 41 15.5
 D = 1075 km
 Schefferville
 Pn 18 39 27
 Sn 18 41 53
 Lg 18 43 21
 D = 1525 km

SEPTEMBER 18
 U.S.C.G.S.
 69.3N 67.8W
 Baffin Island Region
 H = 22 31 23.0
 h 33 km
 Mag 3.9 (CGS)
 Mould Bay
 eP 22 35 09
 Resolute
 eP 22 33 45
 i 22 35 30
 i 22 36 31

SEPTEMBER 18
 68°30'N, 70°05'W
 About 100 miles S. of
 Clyde Inlet, N.W.T.
 H = 22 31 27.4
 Mag 5.1
 Frobisher
 Pn - 0' 00"
 Sn-Pn 0' 56"
 Lg-Pn 01' 19.5"
 D = 535 km
 Mould Bay
 Pn 22 35 10
 Sn 22 38 05
 Lg 22 40 04
 D = 1790 km
 Resolute
 Pn 22 33 45.5
 Sn 22 35 30
 I 3 22 36 31.5
 D = 1075 km

Schefferville
 Pn 15 34 42
 Sn 15 37 11
 Lg 15 38 36
 D = 1525 km

SEPTEMBER 19
 U.S.C.G.S.
 47.1N 27.4W
 North Atlantic Ocean
 H = 16 49 29.9
 h 33 km
 Mag
 Edmonton
 eP 16 58 39

SEPTEMBER 19
 Alert
 e(P) 18 17 38
 Mould Bay
 eP 18 19 41

SEPTEMBER 19
 About 360 Miles from
 Montreal.
 H = 18 47 49.5
 h 22 km
 Mag 3.8
 Montreal
 Pn 18 49 06.5
 (P1) 18 49 14
 Sn 18 50 06
 Lg 18 50 35
 D = 585 km

SEPTEMBER 20
 U.S.C.G.S.
 76.5N, 7.9E
 Svalbard Region
 H = 03 03 32.9
 h 33 km
 Mag 4.7 (CGS)

DOMINION OBSERVATORIES

Alert		Port Hardy		Edmonton	
eP	03 06 29	eP	17 15 45.9	eP	22 23 (25)
Edmonton		eS	17 16 04.4	Halifax	
eP	03 11 47 (c)	D = 152 km		eP	22 21 39
Mould Bay		Victoria		Ottawa	
eP	03 08 (50)	eP	17 16 29	eP	22 21 43
Resolute		D = 494 km		Schefferville	
eP	03 08 (33)	SEPTEMBER 20		eP	22 22 40 (c)
Victoria		Shawinigan Falls		Shawinigan Falls	
eP	03 12 37	e	19 15 26	eP	22 21 50
SEPTEMBER 20				Victoria	
U.S.C.G.S.		SEPTEMBER 21		eP	22 23 34
21.5S, 68.3W		H = 00 59 51		SEPTEMBER 22	
Bolivia-Chile Border		Mag 2.1		U.S.C.G.S.	
H = 07 25 11.8		Port Hardy		52.5N, 174.9W	
h 125 km		eP	01 00 15.9	Andreanof Islands	
Mag 4.7 (CGS)		eS	01 00 34.8	Aleutian Islands	
Edmonton		D = 155 km		H = 02 49 03.4	
eP	07 37 27 d	SEPTEMBER 21		h 105 km	
Victoria		71.0°N, 72.9°W		Mag 4.8 (CGS)	
eP	07 37 36	Near Dexterity Fo.		Alert	
SEPTEMBER 20		Baffin Island N.W.T.		e(P)	02 56 39
Edmonton		H = 21 51 24		Edmonton	
eP	14 53 46	Mag 4.1		eP	02 55 55
SEPTEMBER 20		Frobisher		Mould Bay	
U.S.C.G.S.		Pn taken as 0' 00"		iP	02 55 19 d
21.5S, 68.0W		Sn-Pn = 1' 20"		Victoria	
Chile-Bolivia Border		Lg - Pn = 2' 01"		eP	02 55 25
H = 14 41 22.6		D = 790 km		SEPTEMBER 22	
h 155 km		Lg 21 55 15		U.S.C.G.S.	
Mag 4.8 (CGS)		D = 810 km		19.3S, 175.9E	
Schefferville		Schefferville		Fiji Islands Region	
e(P)	14 52 54	Lg 21 59 58		H = 02 56 24.3	
Victoria		D = 1834 km		h 28 km	
eP	14 53 44	SEPTEMBER 21		Mag 5.8 (CGS)	
SEPTEMBER 20		U.S.C.G.S.		Edmonton	
50°4N, 129.°5W		17.8S, 68.8W		eP	03 09 41
H = 17 15 22		Peru-Bolivia Border		Victoria	
Mag 3.3		H = 22 11 32.2		eP	03 09 06 (d)
Albarni		h = 171			
eP	17 16 12	Mag 5.1 (CGS)			
D = 356 km					

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 22

U.S.C.G.S.
29.3N, 55.3E
Southern Iran
H = 10 40 55.8
h 33 km
MAG 4.7 (CGS)
Alert
eP 10 51 33 c
Mould Bay
iP 10 52 33 c

SEPTEMBER 22

71.0N, 72.9W
Near Dexterity Fd. Baffin
Island, N.W.T.
H = 11 39 24
MAG 4.4
Frobisher
Pn taken as 0' 00"
Sn - Pn 1' 20"
Lg - Pn 2' 01"
D = 790 km
Resolute
Pn 11 41 09
Sn 11 42 24
Lg 11 43 10
D = 810 km

SEPTEMBER 22

50.5N, 129.6W
West of Vancouver Island
H = 13 35 21
MAG 2.8
Port Hardy
eP 13 35 45.5
eS 13 36 04.5
D = 156 km
Victoria
eP 13 36 29
D = 502 km

SEPTEMBER 22

U.S.C.G.S.
41.9N, 126.7W
Off Coast of Northern
California
H = 15 58 06.1
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 16 04 (52)
Victoria
eP 15 59 47

SEPTEMBER 22

U.S.C.G.S.
19.2S, 175.9E
Tonga Islands Region
H = 19 21 57.1
h 24 km
Edmonton
eP 19 35 15

SEPTEMBER 22

Victoria
eP 19 35 05

SEPTEMBER 22

U.S.C.G.S.
62.9N, 148.8W
Central Alaska
H = 20 33 47.7
h 53 km
MAG 4.0 (CGS)
Edmonton
eP 20 38 (30)
Mould Bay
eP 20 37 38

SEPTEMBER 22

U.S.C.G.S.
44.3N, 114.6W
Central Idaho
H = 21 13 35.6
h 33 km
MAG 3.9 (CGS)
Edmonton
eP 21 15 (48)

Victoria

eP 21 15 21

SEPTEMBER 22

U.S.C.G.S.
37.5N, 20.6E
Ionian Sea
H = 22 32 10.0
h 33 km
MAG 4.6 (CGS)
Mould Bay
eP 22 42 40 (c)

SEPTEMBER 22

Mould Bay
eP 22 58 26

SEPTEMBER 23

U.S.C.G.S.
16.6S, 28.6E
Northern Rhodesia
H = 06 40 36.5
h 33 km
MAG 5.5 (CGS)
Edmonton
(eP) 06 59 51

SEPTEMBER 23

U.S.C.G.S.
16.6S, 28.8E
Northern Rhodesia
H = 09 01 56.8
h 33 km
MAG 5.8 (CGS)
Edmonton
eP 09 21 11
Mould Bay
eP 09 20 (41)

DOMINION OBSERVATORIES

SEPTEMBER 23

U.S.C.G.S.
33.7N, 117.0W
Riverside County,
California
H = 14 41 51.5
h 14 km
MAG 4.3 (CGS)
Edmonton
eP 14 46 22
Mould Bay
eP 14 49 50

SEPTEMBER 23

Victoria
eP 14 43 40

SEPTEMBER 23

U.S.C.G.S.
51.3N, 179.2W
Andreanof Islands,
Aleutian Islands
H = 17 02 36.6
h 33 km
MAG 5.2 (CGS)
Alert
eP 17 10 33 (c)
Mould Bay
eP 17 09 17
i 17 11 55
Schefferville
eP 17 12 42 c
Shawinigan Falls
eP 17 13 06
Victoria
eP 17 09 31 (c)

SEPTEMBER 23

U.S.C.G.S.
29.6N, 50.9E
Persian Gulf
H = 18 33 47.4
h 39 km
MAG 4.7 (CGS)
Mould Bay
eP 18 45 22 (c)

SEPTEMBER 23

Mould Bay
eP 19 31 (19)

SEPTEMBER 23

Shawinigan Falls
eP 21 01 37

SEPTEMBER 24

U.S.C.G.S.
41.0N, 29.0E
Turkey
H = 02 10 44.9
h 33 km
MAG 4.6 (CGS)
Edmonton
eP 02 22 56 c

SEPTEMBER 24

Mould Bay
eP 05 19 30 d

SEPTEMBER 24

U.S.C.G.S.
17.8N, 100.9W
Off Coast of Guerrero,
Mexico
H = 05 33 31.0
h 33 km
MAG 4.2 (CGS)
Edmonton
eP 05 40 35 (c)
Mould Bay
eP 05 43 (31)
Victoria
eP 05 40 27

SEPTEMBER 24

U.S.C.G.S.
44.8N, 111.0W
Yellowstone National Park
H = 06 31 50.5
h 33 km
MAG 3.1 (CGS)
Edmonton
eP 06 33 (54)

SEPTEMBER 24

U.S.C.G.S.
28.6S, 68.4W
La Rioja, Province,
Argentina
H = 03 30 01.6
h 94 km
MAG 4.9 (CGS)
Edmonton
eP 08 42 51 d
Victoria
eP 08 42 57

SEPTEMBER 24

U.S.C.G.S.
10.6S, 78.0W
Near Coast of Peru
H = 16 30 16.0
h 80 km
MAG 6.0 (CGS)
Alert
eP 16 43 23 c
Edmonton
eP 16 41 22 c
Halifax
iP 16 39 53 (c)
Mould Bay
iP 16 43 08 c
eS 16 53 33
London
iP 16 39 28 c
Resolute
eP 16 42 47
i 16 46 (12)
Schefferville
iP 16 40 54 c
Shawinigan Falls
iP 16 39 55 c
Victoria
eP 16 41 27 (c)

SEPTEMBER 24

Alert
eP 16 39 22

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 24
71.4N, 73.3W
Near East Coast of
Baffin Island, N.W.T.
H = 16 52 42
MAG 4.3
Frobisher
Pn taken as 0' 00"
Sn-Pn 1' 22"
Lg-Pn 2' 03"
D = 820 km
Resolute
Lg 16 56 30
D = 829 km

SEPTEMBER 24
Mould Bay
eP 18 01 24
i 29

SEPTEMBER 24
U.S.C.G.S.
10.3S, 164.6E
Santa Cruz Islands
H = 22 08 32.1
h 33 km
MAG 5.0 (CGS)
Edmonton
eP 22 21 (45)

SEPTEMBER 25
71.3N, 73.3W
Near East Coast of
Baffin Island, N.W.T.
H = 00 45
MAG 4.2
Frobisher
Pn taken as 0' 00"
Sn - Pn 01' 22"
Lg - Pn 02' 03"
D = 820 km

SEPTEMBER 25
U.S.C.G.S.
16.5N, 86.6W
Off North Coast of
Honduras
H = 00 47 38.0
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 00 57 57

SEPTEMBER 25
U.S.C.G.S.
16.6N, 87.1W
Honduras
H = 01 09 39.7
h 33 km
MAG 4.2 (CGS)
Edmonton
eP 01 17 (36)
Mould Bay
eP 01 19 57 d
Schefferville
eP 01 17 20

SEPTEMBER 25
U.S.C.G.S.
16.7S, 28.7E
Northern Rhodesia
H = 07 03 54.6
h 33 km
MAG 5.8 (CGS)
Edmonton
eP 07 23 (04)
Mould Bay
eP 07 22 39 d

SEPTEMBER 25
Victoria
eP 07 25 50

SEPTEMBER 25
72°45'N, 106°20'W
Victoria Island, NWT
H = 10 45 31
h 12 km
MAG 3.3
Resolute
Pn 10 46 28
P₁ 10 46 37.2
Sn 10 47 12.5
i 10 47 25
S₁ 10 47 29
D = 420 km
Mould Bay
Pn taken as 0' 00"
Sn - Pn 0' 57"
D = 540 km

SEPTEMBER 25
U.S.C.G.S.
10.2S, 164.6E
Solomon Islands Region
H = 14 00 54.6
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 14 14 08
Victoria
eP 14 13 37

SEPTEMBER 25
U.S.C.G.S.
10.1S, 164.5E
Solomon Islands Region
H = 14 50 18.2
h 33 km
MAG 5.1 (CGS)
Edmonton
eP 15 03 (32)
Victoria
eP 15 02 56

DOMINION OBSERVATORIES

SEPTEMBER 26

U.S.C.G.S.
56.5N, 153.4W
Kodiak Island Region
H = 04 20 21.5
h 33 km
Mag 4.8 (CGS)
Alert
eP 04 27 10
Edmonton
eP 04 25 26
Mould Bay
eP 04 25 30(c)
iP 04 28 21
Resolute
eP 04 26 (16)
Schefferville
eP 04 28 42

SEPTEMBER 26

Alert
eP 04 30 00

SEPTEMBER 26

U.S.C.G.S.
50.4N, 176.9W
Andreanof Islands
Aleutian Islands
H = 05 28 07.3
h 33 km
Mag 5.3 (CGS)
Alert
eP 05 36 09
Edmonton
iP 05 35 27 d
Halifax
eP 05 39 13
London
eP 05 38 24 d
Mould Bay
eP 05 34 52 (d)
Ottawa
eP 05 38 32
Resolute
eP 05 35 (44)

Schefferville

eP 05 38 13 d
Shawinigan Falls
iP 05 38 37 c
Victoria
eP 05 34 52

SEPTEMBER 26

Victoria
eP 05 37 28

SEPTEMBER 26

U.S.C.G.S.
56.6N, 153.2W
Kodiak Island Region
H = 06 40 43.5
h 33 km
Mag 4.8 (CGS)
Alert
eP 06 47 31 c

Edmonton
eP 06 45 47
Mould Bay
eP 06 45 52 (c)
Resolute
eP 06 46 37

SEPTEMBER 26

Alert
eP 08 35 59

SEPTEMBER 26

Mould Bay
eP 10 15 18 (c)

SEPTEMBER 26

U.S.C.G.S.
17.4S, 178.8W
Fiji Islands
h = 10 53 57.3
h 512 km
Mag 4.0 (CGS)
Alert
e(P) 11 16 32
Mould Bay
eP 11 16 50 (c)

SEPTEMBER 27

U.S.C.G.S.
37.0N, 141.3E
Off East Coast of
Honshu, Japan
H = 16 26 49.8
h 81 km
Mag 4.1 (CGS)
Mould Bay
eP 16 36 25

SEPTEMBER 27

U.S.C.G.S.
27.9N, 66.1E
West Pakistan
H = 17 09 33.0
h 88 km
Mag 4.7 (CGS)
Mould Bay
eP 17 21 13

SEPTEMBER 27

Mould Bay
eP 17 57 (16)

SEPTEMBER 27

U.S.C.G.S.
45.6N, 149.5E
Kurile Islands
H = 18 04 38.4
h 80 km
Mag 4.7 (CGS)
Mould Bay
eP 18 12 59

SEPTEMBER 27

Mould Bay
eP 18 50 53

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 28

U.S.C.G.S.
49.8S, 125.9E
South of Australia
H = 00 33 55.1
h 33 km
Mag
Mould Bay
eP' 00 53 (25)

SEPTEMBER 28

U.S.C.G.S.
10.2N, 86.0W
Near West Coast of
Costa Rica
H = 05 25 03.2
h 33 km
Mag 4.1 (CGS)
Mould Bay
eP 05 36 02

SEPTEMBER 28

U.S.C.G.S.
22.9N, 94.5E
Western Burma
H = 06 00 25.4
h 108 km
Mag 5.6 (CGS)
Alert
eP 06 11 52
Mould Bay
eP 06 12 18
Resolute
eP 06 12 38

SEPTEMBER 28

U.S.C.G.S.
31.5S, 179.6E
Kermadec Islands
H = 06 58 12.7
h 457 km
Mag 5.0 (CGS)
Alert
i 07 16 18

Mould Bay

eP' 07 15 57 d
iP 07 18 49
Ottawa
eP' 07 16 12
iP 19 03
Resolute
eP' 07 16 07

SEPTEMBER 28

Schefferville
eP 07 19 02
Mould Bay
eP 07 26 (41)

SEPTEMBER 28

U.S.C.G.S.
44.8N, 129.9W
Off Coast of Oregon
H = 10 03 53.4
h 33 km
Mag 3.7 (CGS)
Edmonton
eP 10 07 (15)

SEPTEMBER 28

U.S.C.G.S.
39.3N, 136.0E
Sea of Japan
H = 11 04 13.6
h 351 km
Mag 3.8 (CGS)
Mould Bay
eP 11 13 14 c

SEPTEMBER 28

U.S.C.G.S.
59.6N, 156.2W
Central Alaska
H = 14 03 53.8
h 33 km
Mag 4.4 (CGS)
Mould Bay
eP 14 08 36

SEPTEMBER 29

U.S.C.G.S.
62.0S, 163.5E
Balleny Islands Region
H = 02 55 05.0
h 33 km
Mag
Mould Bay
eP' 03 14 42
Shawinigan Falls
e 03 14 49

SEPTEMBER 29

U.S.C.G.S.
36.4 N, 70.4E
Hindu Kush
H = 10 39 58.4
h 214 km
Mag 4.8 (CGS)
Mould Bay
iP 10 50 32 c

SEPTEMBER 29

U.S.C.G.S.
36.6N, 29.2E
Near North Coast of
Turkey
H = 13 35 45.3
h 33 km
Mag 4.5 (CGS)
Alert
eP 13 45 08
Edmonton
eP 13 48 18
Mould Bay
eP 13 46 (28)
Resolute
eP 13 46 12

DOMINION OBSERVATORIES

SEPTEMBER 29 71.4°N, 73.3°W Near East Coast of Baffin Island N.W.T. H = 13 52 44 Mag 4.1 Pn taken as 0' 00" Sn-Pn 1' 22" Lg-Pn 2' 03" D = 820 km Resolute Pn 14 54 30 Sn 14 55 45 Lg 14 56 29 D = 829 km Schefferville Lg 15 01 12 D = 1810 km	SEPTEMBER 29 U.S.C.G.S. 21.6N, 142.9E Volcano Islands Region H = 20 31 10.1 h 325 km Mag 4.6 (CGS) Alert eP 20 42 20 Mould Bay iP 20 41 54 c	Seven Falls eP 22 27 08 (d) Victoria iP 22 29 31 c
SEPTEMBER 29 U.S.C.G.S. 36.1N, 72.0E Hindu Kush H = 15 31 31.4 H 150 km Mag 4.9 (CGS) Mould Bay iP 15 42 14 c	SEPTEMBER 29 U.S.C.G.S. 6.9N, 73.0 W Colombia H = 21 58 22.8 h = 157 km Mag 4.0 (CGS) Mould Bay eP 22 09 41 c	SEPTEMBER 29 U.S.C.G.S. 14.4N, 91.9W Guatemala H = 22 44 02.9 h 61 km Mag 5.1 (CGS) Alert eP 22 55 03 (c) Edmonton eP 22 51 53 Mould Bay eP 22 54 27 c i 22 55 05 Ottawa eP 22 50 41 c Resolute eP 22 54 (05) Scarborough eP 22 50 18 Schefferville eP 22 52 12 Shawinigan Falls eP 22 50 (58) Victoria iP 22 51 56 c
SEPTEMBER 29 U.S.C.G.S. 6.0N, 125.3E Mindanao Philippine Islands H = 19 35 01.6 H 117 km Mag 5.3 (CGS) Mould Bay eP 19 47 50 (c) i 19 58 (11) Resolute eP 19 48 16	SEPTEMBER 29 U.S.C.G.S. 36.1N, 18.0E Ionian Sea H = 22 16 38.6 h 47 km Mag 5.3 (CGS) Alert eP 22 25 54 (c) Edmonton eP 22 28 53 c Halifax eP 22 26 44 c Mould Bay iP 22 27 14 c Ottawa iP 22 27 32.5 c Resolute eP 22 26 50 Schefferville eP 22 26 31 c Shawinigan Falls eP 22 27 17 (c)	

SEISMOLOGICAL BULLETIN - 1963

SEPTEMBER 29
 U.S.C.G.S.
 14.3 N, 92.0W
 Guatemala
 H = 23 05 22.5
 h 33 km
 Mag 4.4 (CGS)
 Mould Bay
 eP 23 15 (49)
 i 23 16 18
 j 23 16 56
 Victoria
 eP 23 13 19

SEPTEMBER 29
 U.S.C.G.S.
 14.5N, 92.0W
 Guatemala
 H = 23 08 20.8
 h 42 km
 Mag 4.5 (CGS)
 Victoria
 eP 23 16 15

SEPTEMBER 30
 U.S.C.G.S.
 14.1N, 91.9W
 Near West Coast of
 Guatemala
 H = 03 05 38.1
 h 86 km
 Mag 4.5 (CGS)
 Mould Bay
 eP 03 16 04
 i 03 16 40
 Victoria
 eP 03 13 32

SEPTEMBER 30
 U.S.C.G.S.
 7.3N, 76.9W
 Colombia
 H = 03 46 51.3
 h 33 km
 Mag 4.6 (CGS)

Edmonton
 eP 03 56 17
 Mould Bay
 eP 03 58 16 c
 Ottawa
 iP 03 54 10 d
 Resolute
 eP 03 57 49
 Schefferville
 eP 03 55 31 c
 Victoria
 eP 03 56 33

SEPTEMBER 30
 U.S.C.G.S.
 1.3S, 128.5E
 Ceram Sea
 H = 08 54 15.0
 H 30 km
 Mag 4.9 (CGS)
 Mould Bay
 eP 09 07 42

SEPTEMBER 30
 U.S.C.G.S.
 38.0N, 111.0W
 Southern Utah
 H = 09 17 42.2
 h 33 km
 Mag 4.5 (CGS)
 Edmonton
 eP 09 21 21
 Mould Bay
 i 09 25 02
 i 09 27 20

SEPTEMBER 30
 U.S.C.G.S.
 52.6N, 169.5W
 Fox Islands
 Aleutian Islands
 H = 12 36 25.4
 h 33 km
 Mag 4.1 (CGS)

Edmonton
 eP 12 43 00
 Mould Bay
 eP 12 42 36

SEPTEMBER 30
 Mould Bay
 eP 13 09 (32)

SEPTEMBER 30
 U.S.C.G.S.
 9.4N, 142.3E
 Mariana Islands Region
 H = 22 59 52.8
 h 33 km
 Mag 4.4 (CGS)
 Mould Bay
 eP 23 12 17

OCTOBER 1
 71.4°N, 73.3°W
 Near East Coast of
 Baffin Island, N.W.T.
 H = 02 26 33
 Mag 4.1
 Frobisher
 Pn taken as 0' 00"
 Sn-Pn = 01' 22"
 Lg - Pn = 02' 03"
 D = 820 km
 Resolute
 Pn 02 28 19
 Sn 02 29 36
 Lg 02 30 20
 D = 829

OCTOBER 1
 U.S.C.G.S.
 6.8N, 73.1W
 Colombia
 H = 02 43 27.1
 h 132 km
 Mag 4.6 (CGS)

DOMINION OBSERVATORIES

OCTOBER 1

Mould Bay
eP 02 54 48 d
Schefferville
e(P) 02 51 56

OCTOBER 1

Mould Bay
eP 04 26 36 (d)

OCTOBER 1

Alert
eP 05 11 22
S 05 12 39

OCTOBER 1

U.S.C.G.S.
18.5N, 145.2E
Mariana Islands
H = 05 00 21.8
h 225 km
Mag 4.4 (CGS)
Mould Bay
eP 05 11 31

OCTOBER 1

63°40'N 79°35'W
Foxe Islands N.W.T.
or
67°50' N, 62°15'W
Just off Coast of Baffin
Island, N.W.T.
H = 06 45 35
Mag 4.1
Frobisher
Pn - taken as 0' 00"
Sn - Pn 00' 56"
Lg - Pn 00' 23"
D = 540 km
Resolute
Pn 06 48 25
Sn 06 50 36
Lg 06 51 54
D = 1350

OCTOBER 1

U.S.C.G.S.
10.2N, 84.5W
Costa Rica
H = 10 30 31.6
h 46 km
Mag 4.6 (CGS)
Mould Bay
eP 10 41 30

OCTOBER 1

U.S.C.G.S.
52.6N, 168.1W
Fox Islands
Aleutian Islands
H = 13 22 25.0
h 33 km
Mag 3.9 (CGS)
Mould Bay
eP 13 28 29

OCTOBER 1

U.S.C.G.S.
36.1N, 22.3 E
South of Greece
H = 17 21 54.0
h 106 km
Mag 4.6 (CGS)
Mould Bay
eP 17 32 26

OCTOBER 1

Mould Bay
eP 18 59 24

OCTOBER 2

Mould Bay
eP 00 09 02

OCTOBER 2

Canadian Arctic
H = 02 09 47
Mag 1.5
Resolute
P₁ 02 10 08
S₁ 02 10 24
D = 131 km

OCTOBER 2

U.S.C.G.S.
5.4S, 152.0E
New Britain
H = 03 31 27.0
h 65 km
Mag 5.6 (CGS)
Edmonton
eP 03 44 54
Mould Bay
eP 03 44 43 c
Victoria
eP 03 44 22(c)

OCTOBER 2

Mould Bay
eP 05 42 03
iP 05 42 04
eS 05 42 19

OCTOBER 2

U.S.C.G.S.
20.8S, 174.1W
Tonga Islands
H = 05 47 05.5
h 33 km
Mag 5.3 (CGS)
Victoria
eP 05 59 26

OCTOBER 2

U.S.C.G.S.
36.3N 142.4E
Off East Coast of
Honshu Japan
H - 09 51 41.1
h 48 km
Mag 4.1 (CGS)
Mould Bay
eP 10 01 (22)

OCTOBER 2

Mould Bay
eP 12 28 (14)

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 2
Mould Bay
eP 14 36 04

OCTOBER 2
U.S.C.G.S.
35.1N, 23.5E
Near West Coast
of Crete
H = 21 05 14.7
h 72 km
Mag 4.5 (CGS)
Mould Bay
eP 21 15 58 c
Schefferville
eP 21 15 32

OCTOBER 2
Mould Bay
eP 22 00 17 c

OCTOBER 3
U.S.C.G.S.
18.3N, 105.6W
Off Coast of Colima
Mexico
H = 01 22 40.6
h 33 km
Mag 4.2 (CGS)
Mould Bay
eP 01 32 32

OCTOBER 3
Mould Bay
eP 03 24 (57)

OCTOBER 3
U.S.C.G.S.
10.1N, 62.5W
Near Coast of Venezuela
H = 05 27 58.5
h 62 km
Mag -
Edmonton
eP 05 37 (52)
Mould Bay
eP 05 39 21

OCTOBER 3
U.S.C.G.S.
22.3N, 121.1E
Near East Coast
of Taiwan
H = 05 32 18.4
h 55 km
MAG 4.4 (CGS)
Mould Bay
eP 05 43 55

OCTOBER 3
Mould Bay
eP 13 52 (13)

OCTOBER 3
U.S.C.G.S.
58.5S, 25.1W
Sandwich Islands
H = 15 48 17.2
h 54 km
MAG (CGS)
Alert
eP¹ 16 07 42
Edmonton
eP¹ 16 07 (26)
Mould Bay
eP¹ 16 07 53
i 16 11 32
Resolute
eP¹ 16 07 (37)
Schefferville
eP¹ 16 07 00

OCTOBER 3
Resolute
eP 16 11 (20)

OCTOBER 3
Mould Bay
eP 16 20 59 c

OCTOBER 3
Mould Bay
eP 17 04 50

OCTOBER 3
Mould Bay
eP 17 42 06

OCTOBER 3
U.S.C.G.S.
58.6S, 25.5W
Sandwich Islands
H = 17 55 54.2
h 33 km
MAG 5.5 (CGS)
Edmonton
eP¹ 18 15 (04)
Mould Bay
eP^a 18 15 (25)
i 18 19 (01)

OCTOBER 3
Mould Bay
eP 18 54 (45)

OCTOBER 3
U.S.C.G.S.
32.2N, 131.6E
Kyushu, Japan
H = 23 24 34.7
h 33 km
MAG 5.7 (CGS)
Alert
iP 23 35 15 c
Edmonton
eP 23 36 31 (c)
Mould Bay
iP 23 35 02 c
Resolute
eP 23 35 39 c
Schefferville
eP 23 37 42 c
Victoria
eP 23 36 17

DOMINION OBSERVATORIES

OCTOBER 4
U. S. C. G. S.
32.8N, 131.4E
Kyushu, Japan
H = 00 27 56.7
h 21 km
MAG 4.9 (CGS)
Mould Bay
eP 00 38 24 c
Victoria
eP 00 39 34

OCTOBER 4
Mould Bay
eP 01 13 31

OCTOBER 4
eP 02 56 06 d

OCTOBER 4
U. S. C. G. S.
20.7S, 174.0W
Tonga Islands
H = 02 47 32.1
h 33 km
MAG 5.3 (CGS)
Edmonton
eP 03 00 (32)

OCTOBER 4
Resolute
eP 03 07 53

OCTOBER 4
Mould Bay
eP 03 34 (06)

OCTOBER 4
U. S. C. G. S.
58.4S, 25.0W
Sandwich Islands
H = 03 44 28.5
h 33 km
MAG 5.2 (CGS)
Mould Bay
eP¹ 04 04 07

OCTOBER 4
Mould Bay
eP 04 11 (10)

OCTOBER 4
47.5N, 130.5W
Off Coast of
Washington, USA
H = 07 14 53
MAG 4.4
Port Hardy
eP 07 16 11.6
D = 440 km
Victoria
iP 07 16 18.2
D = 630 km

OCTOBER 4
U. S. C. G. S.
16.1N, 96.8W
Near Coast of
Oaxaca Mexico
H = 08 34 53.0
h 41 km
MAG 4.5 (CGS)
Edmonton
eP 08 42 20
Mould Bay
eP 08 45 07 c

OCTOBER 4
U. S. C. G. S.
18.1N, 60.1E
Arabian Sea
H = 13 29 44.6
h 33 km
MAG 5.3 (CGS)
Alert
i 13 41 32
Mould Bay
eP 13 42 23

OCTOBER 4
U. S. C. G. S.
52.0N, 169.7E
Near Islands,
Aleutian Islands
H = 14 04 57.0
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 14 12 01

OCTOBER 4
Mould Bay
eP 15 26 (13)

OCTOBER 4
Mould Bay
eP 18 48 44 c

OCTOBER 5
Mould Bay
eP 00 42 (26)

OCTOBER 5
U. S. C. G. S.
16.0S, 173.2W
Tonga Islands
H = 01 55 35.2
h 79 km
MAG 5.5 (CGS)
Edmonton
eP 02 08 07 (c)
Mould Bay
eP 02 09 00
Victoria
iP 02 07 26 c

OCTOBER 5
Mould Bay
eP 03 14 32

SEISMOLOGICAL BULLETIN - 1963

- OCTOBER 5
U.S.C.G.S.
43.9N, 144.4E
Hokkaido, Japan
H = 04 22 26.0
h 33 km
MAG 4.9 (CGS)
Victoria
eP 04 32 32 (c)
- OCTOBER 5
U.S.C.G.S.
15.9S, 173.2W
Tonga Islands
H = 05 15 32.4
h 33 km
MAG 4.9 (CGS)
Edmonton
eP 05 28 11
Victoria
eP 05 27 31
- OCTOBER 5
U.S.C.G.S.
28.8N, 139.2E
South of Honshu, Japan
H = 07 32 19.0
h 454 km
MAG 4.6 (CGS)
Alert
iP 07 42 36 c
Edmonton
iP 07 43 25 c
Mould Bay
iP 07 42 14 c
Resolute
eP 07 42 51
Victoria
eP 07 43 06
- OCTOBER 5
48.1N, 128.1W
Off Coast of
Washington, USA
H = 11 55 57
MAG 4.3
Alberni
eP 11 56 37.1
D = 276 km
Port Hardy
eP 11 56 40.0
D = 300 km
Victoria
eP 11 56 46.2
D = 351 km
- OCTOBER 5
U.S.C.G.S.
11.6N, 42.8E
French Somaliland
H = 14 57 47.4
h 33 km
MAG 5.3 (CGS)
Alert
eP 15 10 00
- OCTOBER 5
Victoria
eP 15 12 53
Port Hardy
eP 15 12 50
- OCTOBER 5
Port Hardy
iP 18 36 24
- OCTOBER 5
50.9N, 131.1W
West of Vancouver Island
H = 18 40 46
MAG 3.9
Alberni
eP 18 41 53.1
D = 494 km
Port Hardy
eP 18 41 24.4
D = 259 km
- Victoria
eP 18 42 21.0
D = 723 km
- OCTOBER 5
U.S.C.G.S.
52.1N, 178.1E
Rat Islands,
Aleutian Islands
H = 20 20 02.7
h 140 km
MAG 4.9 (CGS)
Alert
eP 20 27 43 (c)
Edmonton
eP 20 27 26 c
Mould Bay
iP 20 26 32
Resolute
eP 20 27 24
- OCTOBER 5
U.S.C.G.S.
45.3N, 150.0E
Kurile Islands
H = 23 50 46.3
h 50 km
MAG 4.3 (CGS)
Mould Bay
eP 23 59 11
Resolute
eP 23 59 58
- OCTOBER 6
Edmonton
iP 00 00 42 d
- OCTOBER 6
Mould Bay
eP 01 17 02

DOMINION OBSERVATORIES

OCTOBER 6

Canadian Arctic

H = 08 04 08.8

MAG 1.1

Resolute

P₁ 08 04 16

S₁ 08 04 21.5

D = 45 km

OCTOBER 6

U.S.C.G.S.

21.9N, 127.4W

1200 km, Southwest of
Guadalupe Island

H = 08 48 12.4

h 33 km

MAG 4.0 (CGS)

Mould Bay

eP 08 57 39

OCTOBER 6

U.S.C.G.S.

22.0S, 69.4W

Northern Chile

H = 15 01 42.1

h 33 km

MAG 4.6 (CGS)

Edmonton

eP 15 14 10 c

OCTOBER 6

U.S.C.G.S.

33.9S, 70.0W

Central Chile

H = 17 15 33.9

h 101 km

MAG 5.1 (CGS)

Mould Bay

eP' 17 34 (06)

OCTOBER 6

Mould Bay

eP 17 56 40 d

OCTOBER 6

H = 21 27 28

MAG 2.3

Victoria

eP 21 28 10.9

eS 21 28 43.2

D = 265 km

OCTOBER 6

Mould Bay

eP 21 41 (31)

OCTOBER 6

U.S.C.G.S.

53.8N, 164.6W

Fox Islands,

Aleutian Islands

H = 22 08 39.0

h 33 km

MAG 4.0 (CGS)

Mould Bay

eP 22 14 30

OCTOBER 7

U.S.C.G.S.

11.6N, 86.9W

Near West Coast

of Nicaragua

H = 03 59 54.1

h 50 km

MAG 4.5 (CGS)

Edmonton

eP 04 08 18 c

Mould Bay

eP 04 10 42 c

Ottawa

eP 04 06 43

Schefferville

e(P) 04 08 13

Shawinigan Falls

eP 04 07 00

Victoria

eP 04 08 29

OCTOBER 7

U.S.C.G.S.

19.8N, 109.1W

Revilla Gigedo Islands
Region

H = 05 35 16.7

h 33 km

MAG 4.7 (CGS)

Mould Bay

eP 05 44 57

OCTOBER 7

Mould Bay

eP 11 15 (29)

OCTOBER 7

Canadian Arctic

H = 12 06 47.3

MAG 1.9

Alert

P₁ 12 07 11

S₁ 12 07 29

D = 148 km

OCTOBER 7

U.S.C.G.S.

12.9S, 76.8W

Central Peru

H = 12 43 53.6

h 69 km

MAG 5.4 (CGS)

Edmonton

eP 12 55 16 (c)

Mould Bay

eP 12 56 58 (c)

Resolute

eP 12 56 37

Schefferville

eP 12 54 46 (c)

Seven Falls

eP 12 53 55

Shawinigan Falls

eP 12 53 50 (c)

Victoria

eP 12 55 23 (c)

SEISMOLOGICAL BULLETIN - 1963

<p>OCTOBER 7 U.S.C.G.S. 23.6S, 179.9E Fiji Islands Region H = 13 14 24.6 h 550 km MAG 5.7 (CGS) Edmonton eP 13 26 52 c Port Hardy eP 13 26 16 Victoria eP 13 26 18 (c)</p>	<p>OCTOBER 8 Mould Bay eP 00 15 28 c</p> <p>OCTOBER 8 U.S.C.G.S. 15.1S, 173.2W Samoa Islands Region H = 00 17 01.1 h 33 km MAG 5.7 (CGS) Edmonton eP 00 29 34 (d) Resolute eP 00 30 51 Victoria eP 00 28 55</p> <p>OCTOBER 8 Mould Bay eP 02 26 (32)</p> <p>OCTOBER 8 U.S.C.G.S. 28.6N, 95.1E Assam India H = 02 51 06.0 h 24 km MAG 5.4 (CGS) Mould Bay eP 03 02 36 d</p> <p>OCTOBER 8 U.S.C.G.S. 39.0N, 20.4E Near Ionian Coast of Greece H = 05 40 28.7 h 33 km MAG 4.3 (CGS) Mould Bay eP 05 50 49</p>	<p>OCTOBER 8 U.S.C.G.S. 11.3N, 125.9E Samar Region Philippine Islands H = 06 26 17.6 h 39 km MAG 5.4 (CGS) Mould Bay eP 06 38 49</p> <p>OCTOBER 8 Mould Bay eP 07 52 44</p> <p>OCTOBER 8 Mould Bay eP 08 11 15</p> <p>OCTOBER 8 U.S.C.G.S. 76.5N, 86.5E Kara Sea H = 10 53 12.0 h 25 km MAG 4.7 (CGS) Alert eP 10 57 (53) c Edmonton eP 11 02 05 Mould Bay iP 10 58 51 Resolute eP 20 59 22</p> <p>OCTOBER 8 Mould Bay eP 14 55 01</p> <p>OCTOBER 8 Mould Bay eP 17 16 (04)</p> <p>OCTOBER 8 Mould Bay eP 18 24 (17)</p>
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DOMINION OBSERVATORIES

OCTOBER 8 Mould Bay eP 20 08 42 c	OCTOBER 9 Victoria eP 05 25 55	OCTOBER 9 Edmonton eP 22 47 39 (d) Mould Bay eP 22 46 (59)
OCTOBER 8 Mould Bay eP 21 46 (50)	OCTOBER 9 Mould Bay eP 06 41 (54)	OCTOBER 10 Mould Bay eP 02 26 (59)
OCTOBER 9 Mould Bay iP 02 14 19 c	OCTOBER 9 71.4N, 73.3W Near East Coast of Baffin Island, NWT H = 08 00 31 MAG 3.6 Frobisher Pn taken as 0' 00" Sn - Pn 01' 22" Lg - Pn 02' 03" D = 820 km Resolute Lg 08 02 36 D = 829 km	OCTOBER 10 U.S.C.G.S. 47.6N, 127.1W Off Coast of Washington H = 03 15 15.0 h 33 km MAG 3.9 (CGS) Victoria iP 03 15 54 c
OCTOBER 9 U.S.C.G.S. 53.8N, 170.5W Bering Sea H = 03 21 11.1 h 250 km MAG 4.3 (CGS) Mould Bay eP 03 26 (59)	OCTOBER 9 Mould Bay eP 14 03 (29)	OCTOBER 10 U.S.C.G.S. 46.0N, 153.7E Kurile Islands Region H = 10 15 17.4 h 45 km MAG 4.4 (CGS) Edmonton eP 10 24 55 Mould Bay eP 10 23 32
OCTOBER 9 Mould Bay iP 03 29 56 c	OCTOBER 9 U.S.C.G.S. 27.7N, 138.5E South of Honshu, Japan H = 14 36 32.2 h 556 km MAG 4.2 (CGS) Mould Bay eP 14 46 (26)	OCTOBER 10 U.S.C.G.S. 12.4N, 144.0E Mariana Islands H = 16 49 52.0 h 35 km MAG 4.6 (CGS) Mould Bay iP 17 01 57
OCTOBER 9 Mould Bay eP 03 47 12 c	OCTOBER 9 Mould Bay eP 17 29 (30) i 17 29 41	
OCTOBER 9 71.4N, 73.3W Near Coast of Baffin Island, N.W.T. H = 04 06 59 MAG 4.0 Frobisher Lg - Sn 40 sec. D = 820 km Resolute Pn 04 08 45 Sn 04 10 05 Lg 04 10 50 D = 829 km	OCTOBER 9 Mould Bay eP 18 54 (38)	

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 10 U.S.C.G.S. 52.5N, 176.3W Andreanof Islands Aleutian Islands H = 18 15 13.0 h 33 km MAG 4.5 (CGS) Mould Bay eP 18 21 38 d i 18 22 06	OCTOBER 11 U.S.C.G.S. 35.0N, 135.2E Southern Honshu, Japan H = 12 13 49.0 h 379 km MAG 3.9 (CGS) Mould Bay eP 12 23 18 c	Resolute Pn 02 49 33 Sn 02 50 48 Lg 02 51 33 D = 829 km Yellowknife Pn 02 50 53 Sn 02 54 01 Lg 02 56 00 D = 1975 km
OCTOBER 10 Mould Bay eP 20 31 11	OCTOBER 11 Edmonton eP 14 03 (53) Mould Bay eP 14 07 32	OCTOBER 12 Mould Bay eP 05 34 (23)
OCTOBER 10 Mould Bay eP 21 52 (26)	OCTOBER 11 Mould Bay eP 17 26 48 i 17 29 58	OCTOBER 12 Mould Bay eP 07 38 49
OCTOBER 11 Mould Bay eP 10 01 10 c	OCTOBER 11 Mould Bay eP 18 12 (43)	OCTOBER 12 U.S.C.G.S. 44.8N, 149.0E Kurile Islands H = 11 26 57.9 h 40 km MAG 6 3/4 - 7 - (PAS)
OCTOBER 11 U.S.C.G.S. 17.8N, 105.9W Off Coast of Jalisco, Mexico H = 10 17 07.6 h 33 km MAG 5.0 (CGS) Alert eP 10 28 00 Edmonton eP 10 24 (05) Mould Bay eP 10 27 (04) Ottawa eP 10 24 (18) Victoria eP 10 23 (50)	OCTOBER 11 Mould Bay eP 20 37 (37)	Alert eP 11 36 04 c Halifax iP 11 39 38 c London (i)P 11 39 14 c Mould Bay iP 11 35 30 c iS 11 42 22 Ottawa eP 11 39 13 c Port Hardy eP 11 36 18 Resolute eP 11 36 16 c Scarboro eP 11 39 16 c Seven Falls eP 11 39 14
	OCTOBER 12 U.S.C.G.S. 71.6N, 73.0W Baffin Island H = 02 46 48.1 MAG 4.1 (CGS) 5.0 (DO) Alert Pn 02 49 28 Sn 02 51 28 Lg 02 52 08 D = 1300 km Frobisher Pn taken as 0' 00" Sn-Pn 01' 22" Lg-Pn 02' 03" D = 820 km Mould Bay Pn 02 49 56 c Sn 02 52 24 D = 1540 km	

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 12
Mould Bay
eP 17 45 (47)

OCTOBER 12
U.S.C.G.S.
44.5N, 149.7E
Kurile Islands
H = 18 05 47.8
h 45 km
MAG 4.2 (CGS)
Mould Bay
iP 18 14 20 d
Resolute
eP 18 15 05

OCTOBER 12
U.S.C.G.S.
44.7N, 149.4E
Kurile Islands
H = 18 48 35.5
h 50 km
MAG 5.0 (CGS)
Resolute
eP 18 57 52
Mould Bay
eP 18 57 06

OCTOBER 12
U.S.C.G.S.
45.1N, 129.9W
Off Coast of Oregon
H = 19 10 20.5
h 33 km
MAG 4.2 (CGS)
Victoria
eP 19 11 44

OCTOBER 12
U.S.C.G.S.
44.3N, 149.4E
Kurile Islands
H = 19 46 52.9
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 19 55 26

OCTOBER 12
U.S.C.G.S.
44.6N, 149.4E
Kurile Islands
H = 19 57 00.2
h 50 km
MAG 4.4 (CGS)
Mould Bay
eP 20 05 32 d
Resolute
eP 20 06 18

OCTOBER 12
Mould Bay
eP 20 27 04

OCTOBER 12
U.S.C.G.S.
44.4N, 149.2E
Kurile Islands
H = 20 21 04.5
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 20 29 37
Resolute
eP 20 30 24

OCTOBER 12
Mould Bay
eP 20 53 (03)

OCTOBER 12
Mould Bay
eP 21 26 32 d
i 21 28 09
i 21 32 19

OCTOBER 12
Alert
eP 21 42 22

OCTOBER 12
U.S.C.G.S.
44.5N, 149.5E
Kurile Islands
H = 22 02 01.2
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 22 10 33 d
i 22 16 03
Resolute
eP 22 11 20

OCTOBER 12
U.S.C.G.S.
44.4N, 149.2E
Kurile Islands
H = 22 07 29.3
h 40 km
MAG 4.2 (CGS)
Resolute
eP 22 16 49

OCTOBER 12
Mould Bay
eP 23 10 (41)

OCTOBER 12
U.S.C.G.S.
44.3N, 149.2E
Kurile Islands
H = 23 40 11.1
h 40 km
MAG 4.3 (CGS)
Mould Bay
eP 23 48 44

OCTOBER 13
Mould Bay
eP 00 57 25

OCTOBER 13
Alert
eP 01 38 12

DOMINION OBSERVATORIES

OCTOBER 13
 U.S.C.G.S.
 44.4N, 149.3E
 Kurile Islands
 H = 01 26 34.3
 h 33 km
 MAG 4.4 (CGS)
 Mould Bay
 eP 01 35 09
 Resolute
 eP 01 35 55

OCTOBER 13
 81.0N, 94.0W
 North Coast of Axel
 Heilberg Island, NWT
 H = 01 37 01
 MAG 4.0
 Alert
 Pn 01 38 11.5
 i 01 38 59
 Sn 01 39 04.5
 Lg 01 39 31
 D = 540 km
 Mould Bay
 Pn 01 38 43
 Sn 01 39 59
 D = 790 km
 Resolute
 Pn 01 38 35
 Sn 01 39 43
 D = 700 km

OCTOBER 13
 U.S.C.G.S.
 44.4N, 149.2E
 Kurile Islands
 H = 01 34 54.3
 h 33 km
 MAG 4.3 (CGS)
 Mould Bay
 eP 01 43 (29)
 Resolute
 eP 01 44 16

OCTOBER 13
 Mould Bay
 eP 02 18 (55)
 OCTOBER 13
 Mould Bay
 eP 03 44 51 d
 OCTOBER 13
 Resolute
 eP 03 45 37

OCTOBER 13
 U.S.C.G.S.
 44.4N, 149.2E
 Kurile Islands
 H = 04 05 50.1
 h 30 km
 MAG 4.4 (CGS)
 Mould Bay
 eP 04 14 25
 Resolute
 eP 04 15 12

OCTOBER 13
 Resolute
 eP 05 12 12 c

OCTOBER 13
 U.S.C.G.S.
 9.8N, 84.1W
 Costa Rica
 H = 05 10 12.5
 h 63 km
 MAG 4.4 (CGS)
 Mould Bay
 eP 05 21 12

OCTOBER 13
 U.S.C.G.S.
 44.8N, 149.5E
 Kurile Islands
 H = 05 17 57.1
 h 60 km
 MAG 8 1/4 (Pas)

Alert
 eP 05 27 00
 Halifax
 iP 05 30 35 c
 London
 (i)P 05 30 09 (c)
 Mould Bay
 eP 05 26 25 c
 Ottawa
 eP 05 30 09
 Scarboro
 eP 05 30 11 c
 Schefferville
 eP 05 29 40 c
 Seven Falls
 eP 05 30 14
 Shawinigan Falls
 eP 05 30 (10)
 Victoria
 eP 05 27 34
 Yellowknife
 eP 05 27 17 (d)

OCTOBER 13
 Alert
 eP 05 45 44
 Yellowknife
 e 05 46 (00)

OCTOBER 13
 Yellowknife
 eP 05 50 15

OCTOBER 13
 U.S.C.G.S.
 45.9N, 151.9E
 Kurile Islands
 H = 06 05 29.5
 h 55 km
 MAG 5.5 (CGS)
 Alert
 eP 06 14 (26)
 Yellowknife
 eP 06 14 37

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 13
U.S.C.G.S.
45.3N, 151.3E
Kurile Islands
H = 06 09 02.2
h 60 km
MAG 5.6 (CGS)
Yellowknife
eP 06 18 12

OCTOBER 13
U.S.C.G.S.
45.4N, 150.8E
Kurile Islands
H = 06 23 38.2
h 40 km
MAG 5.2 (CGS)
Alert
eP 06 32 40
Scarborough
eP 06 35 (50)
Yellowknife
eP 06 32 55

OCTOBER 13
Alert
eP 06 50 49

OCTOBER 13
U.S.C.G.S.
45.5N, 151.8E
Kurile Islands
H = 06 48 26.3
h 55 km
MAG 5.2 (CGS)
Alert
eP 06 57 23

OCTOBER 13
Yellowknife
eP 06 56 (11)

OCTOBER 13
U.S.C.G.S.
45.5N, 150.6E
Kurile Islands
H = 07 03 23.8
h 50 km
MAG 5.6 (CGS)
Alert
eP 07 12 24
Mould Bay
eP 07 11 42 d
Ottawa
eP 07 15 31
Scarborough
eP 07 15 34
Schefferville
iP 07 15 04 c
Victoria
eP 07 12 57
Yellowknife
eP 07 12 38

OCTOBER 13
U.S.C.G.S.
45.5N, 151.5E
Kurile Islands
H = 07 16 42.9
h 55 km
MAG 4.9 (CGS)
Alert
eP 07 25 43
Mould Bay
eP 07 25 06

OCTOBER 13
U.S.C.G.S.
45.0N, 151.5E
Kurile Islands
H = 07 19 11.1
h 40 km
MAG 4.8 (CGS)
Alert
eP 07 28 15 (d)
Mould Bay
i 07 27 39

OCTOBER 13
U.S.C.G.S.
45.0N, 151.4E
Kurile Islands
H = 07 31 50.8
h 40 km
MAG 4.9 (CGS)
Alert
eP 07 40 55
Mould Bay
eP 07 40 (20)

OCTOBER 13
U.S.C.G.S.
46.5N, 151.8E
Kurile Islands
H = 07 35 44.7
h 45 km
MAG 4.6 (CGS)
Alert
eP 07 44 39
i 07 45 47
Mould Bay
i 07 44 02

OCTOBER 13
Mould Bay
iP 07 45 12

OCTOBER 13
Alert
eP 08 04 58

OCTOBER 13
Mould Bay
eP 08 07 26

OCTOBER 13
Resolute
eP 08 08 13 d

OCTOBER 13
Mould Bay
i 08 10 57

DOMINION OBSERVATORIES

OCTOBER 13
Resolute
eP 08 11 44 c

OCTOBER 13
Mould Bay
i 08 15 52

OCTOBER 13
U.S.C.G.S.
44.5N, 151.6E
Kurile Islands
H = 08 11 32.0
h 60 km
MAG 4.8 (CGS)
Alert
eP 08 20 37
Mould Bay
i 08 20 03

OCTOBER 13
U.S.C.G.S.
45.3N, 151.7E
Kurile Islands
H = 08 19 16.0
h 40 km
MAG 4.5 (CGS)
Alert
eP 08 28 18 (c)

OCTOBER 13
Resolute
eP 08 39 50

OCTOBER 13
Mould Bay
eP 08 42 57

OCTOBER 13
U.S.C.G.S.
45.2N, 149.9E
Kurile Islands
H = 08 37 11.4
h 50 km
MAG 4.5 (CGS)
Mould Bay
eP 08 45 37

OCTOBER 13
Mould Bay
i 08 48 06

OCTOBER 13
Mould Bay
eP 08 51 02

OCTOBER 13
Alert
eP 08 55 30

OCTOBER 13
Alert
eP 08 56 41

OCTOBER 13
U.S.C.G.S.
44.2N, 149.5E
Kurile Islands
H = 09 10 15.4
h 40 km
MAG 4.4 (CGS)
Resolute
eP 09 19 36

OCTOBER 13
Alert
eP 09 21 01

OCTOBER 13
U.S.C.G.S.
44.6N, 149.6E
Kurile Islands
H = 09 16 25.9
h 50 km
MAG 4.9 (CGS)
Alert
eP 09 25 31
Mould Bay
eP 09 24 57
Ottawa
eP 09 28 39
Resolute
eP 09 25 43
Schefferville
eP 09 28 11

Victoria
eP 09 26 19

OCTOBER 13
U.S.C.G.S.
44.9N, 151.0E
Kurile Islands
H = 09 22 44.6
h 50 km
MAG 5.0 (CGS)
Alert
i 09 31 48
Mould Bay
eP 09 31 11
Resolute
eP 09 31 58

OCTOBER 13
U.S.C.G.S.
44.1N, 150.0E
H = 09 44 51.6
h 45 km
MAG 4.5 (CGS)
Mould Bay
eP 09 53 25
Resolute
eP 09 54 12

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 13
Alert
eP 10 05 43 c

OCTOBER 13
U.S.C.G.S.
44.3N, 151.0E
Kurile Islands
H = 10 01 12.7
h 55 km
MAG 4.3 (CGS)
Alert
eP 10 10 18
Mould Bay
eP 10 09 (43)
Resolute
eP 10 10 31

OCTOBER 13
U.S.C.G.S.
44.2N, 150.2E
Kurile Islands
H = 10 06 23.8
h 45 km
MAG 4.5 (CGS)
Mould Bay
eP 10 14 57 d
i 10 19 01
Resolute
eP 10 15 44

OCTOBER 13
U.S.C.G.S.
44.5N, 149.6E
Kurile Islands
H = 10 10 28.2
h 45 km
MAG 4.7 (CGS)
Resolute
eP 10 19 48

OCTOBER 13
Alert
i 10 38 34
Resolute
eP 10 38 45

OCTOBER 13
U.S.C.G.S.
44.4N, 150.3E
Kurile Islands
H = 10 33 57.3
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 10 42 30
Resolute
eP 10 43 16

OCTOBER 13
U.S.C.G.S.
45.4N, 151.8E
Kurile Islands
H = 10 47 13.7
h 40 km
MAG 4.9 (CGS)
Alert
eP 10 56 14

OCTOBER 13
Mould Bay
eP 11 23 09

OCTOBER 13
U.S.C.G.S.
44.9N, 151.1E
Kurile Islands
H = 11 15 40.4
h 45 km
MAG 4.9 (CGS)
Alert
eP 11 24 43
Mould Bay
eP 11 24 06

OCTOBER 13
U.S.C.G.S.
44.9N, 150.7E
Kurile Islands
H = 11 22 58.6
h 55 km
MAG 4.8 (CGS)
Alert
eP 11 32 01

Mould Bay
eP 11 31 26
Resolute
eP 11 32 12

OCTOBER 13
Alert
eP 11 37 23

OCTOBER 13
U.S.C.G.S.
45.4N, 151.6E
Kurile Islands
H = 11 35 18.1
h 25 km
MAG 4.8 (CGS)
Alert
eP 11 44 19

OCTOBER 13
U.S.C.G.S.
44.3N, 149.3E
Kurile Islands
H = 11 38 56.9
h 25 km
MAG 4.3
Resolute
eP 11 48 20

OCTOBER 13
U.S.C.G.S.
44.7N, 151.3E
Kurile Islands
H = 11 57 20.3
h 50 km
MAG 4.3 (CGS)
Alert
eP 12 06 23

OCTOBER 13
Mould Bay
eP 12 14 (02)

DOMINION OBSERVATORIES

OCTOBER 13

U.S.C.G.S.

45.0N, 150.8E

Kurile Islands

H = 12 05 48.3

h 25 km

MAG 4.6 (CGS)

Alert

eP 12 14 55

Mould Bay

eP 12 14 18

Resolute

eP 12 15 05

OCTOBER 13

U.S.C.G.S.

44.8N, 149.6E

Kurile Islands

H = 12 20 46.9

h 45 km

MAG 4.3 (CGS)

Mould Bay

eP 12 29 18 d

Resolute

eP 12 30 04

OCTOBER 13

U.S.C.G.S.

45.9N, 151.8E

Kurile Islands

H = 12 29 39.2

h 30 km

MAG 5.0 (CGS)

Alert

eP 12 38 36

Mould Bay

eP 12 37 59 d

Resolute

eP 12 38 46

OCTOBER 13

U.S.C.G.S.

44.6N, 149.3E

Kurile Islands

H = 12 34 18.7

h 25 km

MAG 4.5 (CGS)

Mould Bay

eP 12 42 53

Resolute

eP 12 43 40

OCTOBER 13

U.S.C.G.S.

45.6N, 150.5E

Kurile Islands

H = 12 40 44.2

h 45 km

MAG 4.6 (CGS)

Alert

eP 12 49 41 c

OCTOBER 13

U.S.C.G.S.

44.4N, 149.4E

Kurile Islands

H = 12 42 13.0

h 55 km

MAG 5.2 (CGS)

Alert

eP 12 51 20

Mould Bay

eP 12 50 45

Resolute

eP 12 51 31

Schefferville

eP 12 53 59 d

Yellowknife

eP 12 51 36

OCTOBER 13

U.S.C.G.S.

44.6N, 149.3E

Kurile Islands

H = 12 53 56.9

h 25 km

MAG 4.6 (CGS)

Mould Bay

iP 13 02 32 d

Resolute

eP 13 03 18

OCTOBER 13

U.S.C.G.S.

45.0N, 150.1E

Kurile Islands

H = 12 58 21.6

h 50 km

MAG 5.4 (CGS)

Alert

eP 13 07 24 c

Mould Bay

eP 13 06 49

Ottawa

eP 13 10 32

Port Hardy

eP 13 07 34

Resolute

eP 13 07 36

Scarborough

eP 13 10 35

Schefferville

eP 13 10 05 d

Seven Falls

e 13 10 (47)

Victoria

eP 13 07 58

Yellowknife

eP 13 07 41

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 13
U.S.C.G.S.
46.3N, 151.3E
Kurile Islands
H = 13 05 04
h 33 km
MAG 4.8 (CGS)
Alert
i 13 14 02

OCTOBER 13
U.S.C.G.S.
44.5N, 149.3E
Kurile Islands
H = 13 21 00.3
h 60 km
MAG 4.5 (CGS)
Mould Bay
eP 13 29 31
Resolute
eP 13 30 18
Yellowknife
eP 13 30 22

OCTOBER 13
Alert
eP 13 43 05

OCTOBER 13
U.S.C.G.S.
44.9N, 150.4E
Kurile Islands
H = 13 36 53.3
h 50 km
MAG 4.4 (CGS)
Alert
eP 13 45 56
Mould Bay
eP 13 45 20

OCTOBER 13
U.S.C.G.S.
44.5N, 149.8E
Kurile Islands
H = 13 41 44.8
h 50 km
MAG 4.3 (CGS)

Mould Bay
eP 13 50 17
Resolute
eP 13 51 03

OCTOBER 13
U.S.C.G.S.
44.4N, 151.2E
Kurile Islands
H = 13 43 25.3
h 50 km
MAG 4.8 (CGS)
Alert
eP 13 52 (29)
Mould Bay
eP 13 51 54

OCTOBER 13
U.S.C.G.S.
44.3N, 149.9E
Kurile Islands
H = 13 53 08.1
h 40 km
MAG 4.2 (CGS)
Mould Bay
eP 14 01 42
Resolute
eP 14 02 29

OCTOBER 13
U.S.C.G.S.
44.9N, 151.7E
Kurile Islands
H = 13 54 24.8
h 50 km
MAG 4.8 (CGS)
Alert
eP 14 03 23

OCTOBER 13
U.S.C.G.S.
45.3N, 151.0E
Kurile Islands
H = 14 03 56.3
h 25 km
MAG 4.8 (CGS)
Mould Bay
eP 14 12 23

OCTOBER 13
U.S.C.G.S.
44.5N, 149.5E
Kurile Islands
H = 14 26 11.9
h 50 km
MAG 5.1 (CGS)
Alert
eP 14 35 (18)
Mould Bay
iP 14 34 45 d
Resolute
eP 14 35 28

OCTOBER 13
U.S.C.G.S.
17.6N, 100.8W
Near Coast of Guerrero,
Mexico
H = 14 50 20.0
h 88 km
MAG 4.0 (CGS)
Mould Bay
iP 15 00 17 d

OCTOBER 13
U.S.C.G.S.
47.0N, 149.5E
Kurile Islands
H = 15 50 09.0
h 45 km
MAG 4.1 (CGS)
Alert
eP 15 58 57

DOMINION OBSERVATORIES

OCTOBER 13
Mould Bay
eP 16 02 (09)

OCTOBER 13
U.S.C.G.S.
45.6N, 150.5E
Kurile Islands
H = 15 59 52.9
h 35 km
MAG 6.1 (CGS)
Alert
iP 16 08 54 c
Halifax
iP 16 12 28 c
London
iP 16 12 03 c
Mould Bay
iP 16 08 17 c
Ottawa
eP 16 12 02 (c)
Resolute
iP 16 09 04 c
Scarborough
iP 16 12 04 c
Schefferville
iP 16 11 33 c
Seven Falls
eP 16 12 04 d
Victoria
eP 16 09 27 c
Yellowknife
eP 16 09 08 (c)

OCTOBER 13
U.S.C.G.S.
45.1N, 150.8E
Kurile Islands
H = 16 12 33.2
h 30 km
MAG 4.8 (CGS)
Resolute
eP 16 21 48

OCTOBER 13
U.S.C.G.S.
44.9N, 150.3E
Kurile Islands
H = 16 28 58.2
h 40 km
MAG 5.2 (CGS)
Alert
eP 16 38 01
Mould Bay
eP 16 37 26 d
Resolute
eP 16 38 13
Schefferville
eP 16 40 42
Victoria
eP 16 38 36
Yellowknife
eP 16 38 18

OCTOBER 13
U.S.C.G.S.
18.4N, 103.1W
Near Coast of
Michoacan, Mexico
H = 16 45 18.8
h 50 km
MAG 4.8 (CGS)
Alert
eP 16 56 00 (c)
Mould Bay
eP 16 55 10
Ottawa
eP 16 52 08

OCTOBER 13
U.S.C.G.S.
44.5N, 150.4E
Kurile Islands
H = 16 49 41.2
h 40 km
MAG 4.5 (CGS)
Resolute
eP 16 58 59

OCTOBER 13
Alert
eP 17 19 48

OCTOBER 13
U.S.C.G.S.
44.4N, 151.6E
Kurile Islands
H = 17 17 18.5
h 60 km
MAG 4.7 (CGS)
Mould Bay
eP 17 25 48

OCTOBER 13
U.S.C.G.S.
44.5N, 150.8E
Kurile Islands
H = 17 25 55.4
h 45 km
MAG 4.6 (CGS)
Alert
eP 17 35 02 (c)
Edmonton
eP 17 35 52
Mould Bay
eP 17 34 26
Resolute
eP 17 35 13

OCTOBER 13
U.S.C.G.S.
44.3N, 149.2E
Kurile Islands
H = 17 31 18.7
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 17 39 53
Resolute
eP 17 40 39

OCTOBER 13
Resolute
eP 17 48 51

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 13
Mould Bay
eP 18 16 08

OCTOBER 13
U.S.C.G.S.
44.0N, 150.0E
Kurile Islands
H = 18 10 55.2
h 45 km
MAG 4.7 (CGS)
Alert
i 18 20 05
Edmonton
eP 18 20 (56)
Resolute
eP 18 20 16

OCTOBER 13
U.S.C.G.S.
44.2N, 149.4E
Kurile Islands
H = 18 13 44.6
h 55 km
MAG 4.7 (CGS)
Alert
eP 18 22 53
Edmonton
eP 18 23 46
Victoria
eP 18 23 37

OCTOBER 13
U.S.C.G.S.
45.2N, 150.8E
Kurile Islands
H = 18 14 57.5
h 45 km
MAG 5.2 (CGS)
Alert
eP 18 24 00
Edmonton
eP 18 24 51
Ottawa
eP 18 27 07

Schefferville
eP 18 26 38

OCTOBER 13
U.S.C.G.S.
47.8N, 148.1E
Kurile Islands
H = 18 34 48.0
h 33 km
MAG 4.5 (CGS)
Mould Bay
eP 18 43 02
Resolute
eP 18 43 48

OCTOBER 13
Mould Bay
eP 18 54 05

OCTOBER 13
U.S.C.G.S.
44.2N, 149.7E
Kurile Islands
H = 19 11 20.5
h 25 km
MAG 4.6 (CGS)
Mould Bay
eP 19 19 57

OCTOBER 13
U.S.C.G.S.
45.7N, 151.5E
Kurile Islands
H = 19 26 04.2
h 30 km
MAG 4.6 (CGS)
Alert
eP 19 35 03
Edmonton
eP 19 35 55
Mould Bay
eP 19 34 26
Resolute
eP 19 35 14

OCTOBER 13
U.S.C.G.S.
45.7N, 151.7E
Kurile Islands
H = 19 27 38.2
h 45 km
MAG 5.5 (CGS)
Alert
eP 19 36 35 (d)
Edmonton
eP 19 37 26 (d)
Schefferville
eP 19 39 15
Victoria
eP 19 37 06
Yellowknife
eP 19 36 47

OCTOBER 13
Mould Bay
eP 19 47 35

OCTOBER 13
U.S.C.G.S.
45.3N, 151.4E
Kurile Islands
H = 19 41 20.5
h 45 km
MAG 4.9 (CGS)
Alert
eP 19 50 20 c
Mould Bay
eP 19 49 43

OCTOBER 13
U.S.C.G.S.
44.5N, 150.9E
Kurile Islands
H = 19 54 55.7
h 35 km
MAG 4.2 (CGS)
Resolute
eP 20 04 13

DOMINION OBSERVATORIES

OCTOBER 13
U. S. C. G. S.
44.4N, 151.4E
Kurile Islands
H = 20 14 07.7
h 25 km
MAG 4.5 (CGS)
Mould Bay
eP 20 22 41 d

OCTOBER 13
U. S. C. G. S.
45.6N, 151.7E
Kurile Islands
H = 20 27 38.2
h 30 km
MAG 4.8 (CGS)
Alert
eP 20 36 38 (d)
Edmonton
eP 20 37 29 d
Mould Bay
eP 20 36 00
Resolute
eP 20 36 47

OCTOBER 13
Alert
eP 20 44 38 c

OCTOBER 13
Mould Bay
eP 20 47 09
Edmonton
eP 21 45 (27)

OCTOBER 13
U. S. C. G. S.
45.3N, 151.7E
Kurile Islands
H = 21 35 37.3
h 45 km
MAG 4.7 (CGS)
Mould Bay
eP 21 44 (02)

OCTOBER 13
U. S. C. G. S.
44.3N, 149.5E
Kurile Islands
H = 21 48 01.5
h 50 km
MAG 4.3 (CGS)
Mould Bay
eP 21 56 34 d
Resolute
eP 21 57 21

OCTOBER 13
U. S. C. G. S.
46.1N, 151.8E
Kurile Islands
H = 21 50 02.4
h 45 km
MAG 4.5 (CGS)
Edmonton
eP 21 59 48

OCTOBER 13
U. S. C. G. S.
44.7N, 152.1E
Kurile Islands
H = 21 55 00.8
h 50 km
MAG 5.5 (CGS)
Alert
eP 22 04 05 (d)

Edmonton
iP 22 04 52 d
Mould Bay
iP 22 03 27 d
Ottawa
eP 22 07 08 d
Resolute
eP 22 04 14 d
Schefferville
eP 22 06 41 d
Victoria
eP 22 04 30 d
Yellowknife
iP 22 04 15 c

OCTOBER 13
U. S. C. G. S.
45.1N, 150.9E
Kurile Islands
H = 22 02 58.1
h 45 km
MAG 4.9 (CGS)
Alert
iP 22 12 01
Edmonton
eP 22 12 52 c
Mould Bay
eP 22 11 24
Resolute
eP 22 12 11 d

OCTOBER 13
U. S. C. G. S.
44.2N, 149.3E
Kurile Islands
H = 22 25 37.0
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 22 34 11
Resolute
eP 22 34 58

OCTOBER 13
U. S. C. G. S.
44.3N, 149.5E
Kurile Islands
H = 22 29 48.6
h 40 km
MAG 4.8 (CGS)
Mould Bay
eP 22 38 24

OCTOBER 13
U. S. C. G. S.
45.5N, 151.8E
Kurile Islands
H = 23 05 33.5
h 30 km
MAG 4.6 (CGS)
Edmonton
eP 23 15 (23)

SEISMOLOGICAL BULLETIN - 1963

- OCTOBER 13
U.S.C.G.S.
44.4N, 153.0E
Kurile Islands
H = 23 25 00.8
h 50 km
MAG 4.7 (CGS)
Alert
eP 23 34 00
Edmonton
eP 23 34 48
- OCTOBER 13
U.S.C.G.S.
44.5N, 150.1E
Kurile Islands
H = 23 52 22.8
h 50 km
MAG 5.5 (CGS)
Alert
eP 24 01 30
Edmonton
eP 24 02 21
Mould Bay
eP 24 00 54
Resolute
eP 24 01 41
Victoria
eP 24 01 56
Yellowknife
eP 24 01 43
- OCTOBER 14
U.S.C.G.S.
45.0N, 150.9E
Kurile Islands
H = 00 03 04.1
h 60 km
MAG 4.7 (CGS)
Alert
eP 00 12 05 (c)
Edmonton
eP 00 12 55
London
(iP) 00 15 27 (c)
- Mould Bay
eP 00 11 (29)
Resolute
eP 00 12 (17)
- OCTOBER 14
Edmonton
(eP) 00 14 34 d
- OCTOBER 14
U.S.C.G.S.
Kurile Islands
H = 00 19 17.9
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 00 27 49
- OCTOBER 14
U.S.C.G.S.
46.6N, 150.6E
Kurile Islands
H = 00 52 04.0
h 35 km
MAG 4.5 (CGS)
Alert
eP 01 00 57
- OCTOBER 14
Alert
eP 01 02 23 d
- OCTOBER 14
U.S.C.G.S.
44.3N, 151.2E
Kurile Islands
H = 01 19 17.1
h 55 km
MAG 4.4 (CGS)
Alert
i 01 28 23
Mould Bay
eP 01 27 46
Resolute
eP 01 28 (33)
- OCTOBER 14
U.S.C.G.S.
44.4N, 149.8E
Kurile Islands
H = 01 35 50.8
h 50 km
MAG 4.2 (CGS)
Mould Bay
eP 01 44 23 (c)
Resolute
eP 01 45 (09)
- OCTOBER 14
Mould Bay
eP 02 02 36
Resolute
eP 02 03 (22)
- OCTOBER 14
U.S.C.G.S.
25.2N, 95.3E
Eastern India
H = 02 01 24.0
h 33 km
MAG 5.3 (CGS)
Mould Bay
eP 02 13 12 c
- OCTOBER 14
U.S.C.G.S.
44.9N, 151.8E
Kurile Islands
H = 03 21 56.1
h 50 km
MAG 4.2 (CGS)
Alert
eP 03 30 58
- OCTOBER 14
Alert
eP 03 39 (47)

DOMINION OBSERVATORIES - 1963

OCTOBER 14
 U.S.C.G.S.
 45.9N, 151.8E
 Kurile Islands
 H = 03 31 07.8
 h 25 km
 MAG 5.0 (CGS)
 Alert
 i 03 40 06
 Edmonton
 eP 03 40 57 c
 Mould Bay
 eP 03 39 29
 Resolute
 eP 03 40 15 d
 Yellowknife
 eP 03 40 18

OCTOBER 14
 U.S.C.G.S.
 44.7N, 149.8E
 Kurile Islands
 H = 03 52 56.3
 h 50 km
 MAG 4.1 (CGS)
 Mould Bay
 eP 04 01 (28)
 Resolute
 eP 04 02 13

OCTOBER 14
 71.4N, 73.3W
 Near East Coast of
 Baffin Island, NWT
 H = 04 03 47
 MAG 4.1
 Frobisher
 Lg - Sn 41 sec.
 D = 820 km
 Resolute
 Lg 04 03 47
 D = 829 km

OCTOBER 14
 U.S.C.G.S.
 44.9N, 150.2E
 Kurile Islands
 H = 04 06 01.7
 h 50 km
 MAG 5.3 (CGS)
 Alert
 eP 04 15 05 c
 Edmonton
 eP 04 15 58 (c)
 London
 iP 04 18 14 c
 Mould Bay
 eP 04 14 30
 Ottawa
 eP 04 18 13 c
 Resolute
 eP 04 15 16
 Scarborough
 eP 04 18 15
 Schefferville
 eP 04 17 45 (d)
 Victoria
 eP 04 15 38
 Yellowknife
 eP 04 15 18

OCTOBER 14
 U.S.C.G.S.
 44.7N, 150.6E
 Kurile Islands
 H = 04 11 14.0
 h 45 km
 MAG 5.3 (CGS)
 Alert
 eP 04 20 19 c
 Edmonton
 eP 04 21 11 c
 Mould Bay
 eP 04 19 43
 Ottawa
 eP 04 23 26
 Resolute
 eP 04 20 30

Yellowknife
 eP 04 20 32

OCTOBER 14
 U.S.C.G.S.
 44.9N, 150.7E
 Kurile Islands
 H = 04 13 03.1
 h 40 km
 MAG 5.2 (CGS)
 Mould Bay
 eP 04 21 33
 Yellowknife
 eP 04 22 20

OCTOBER 14
 U.S.C.G.S.
 44.5N, 151.0E
 Kurile Islands
 H = 05 24 12.3
 h 55 km
 MAG 4.9 (CGS)
 Alert
 eP 05 33 17
 Edmonton
 eP 05 34 08
 Mould Bay
 eP 05 32 (41)
 Resolute
 eP 05 33 28
 Schefferville
 eP 05 35 55

OCTOBER 14
 48.7N, 124.6W
 Southern Vancouver Island
 H = 05 35 43
 MAG 2.0
 Alberni
 iP 05 35 53.8
 D = 64 km
 Victoria
 eP 05 35 58.0
 D = 91 km

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 14 U.S.C.G.S. 2.3S, 77.6W Peru - Ecuador Border H = 05 39 17.1 Alert eP 05 51 51 Edmonton eP 05 49 41 Mould Bay eP 05 51 35 Yellowknife eP 05 50 27	Schefferville eP 06 35 34 Yellowknife iP 06 32 09 d	OCTOBER 14 U.S.C.G.S. 44.8N, 151.2E Kurile Islands H = 07 54 33.9 h 55 km MAG 5.1 (CGS) Alert eP 08 03 39 d Mould Bay eP 08 03 02 Resolute eP 08 03 47 Schefferville eP 08 06 15 d
OCTOBER 14 U.S.C.G.S. 44.8N, 150.6E Kurile Islands H = 05 42 55.3 h 50 km MAG 4.5 (CGS) Mould Bay eP 05 51 23	OCTOBER 14 U.S.C.G.S. 44.1N, 149.4E Kurile Islands H = 06 29 01.5 h 35 km MAG 4.4 (CGS) Edmonton eP 06 39 06 Mould Bay eP 06 37 37 Resolute eP 06 38 (23)	OCTOBER 14 Mould Bay eP 08 45 56
OCTOBER 14 Mould Bay eP 06 22 (13)	OCTOBER 14 U.S.C.G.S. 44.6N, 150.3E Kurile Islands H = 07 15 58.0 h 45 km MAG 4.9 (CGS) Alert eP 07 25 04 Edmonton eP 07 25 56 (c) Mould Bay eP 07 24 30 (c) Resolute eP 07 25 15 Yellowknife eP 07 25 18	OCTOBER 14 U.S.C.G.S. 44.7N, 150.7E Kurile Islands H = 08 43 56.6 h 50 km MAG 4.3 (CGS) Mould Bay eP 08 52 24 Resolute eP 08 53 (12)
OCTOBER 14 Alert eP 06 33 47	OCTOBER 14 U.S.C.G.S. 52.8N, 167.1W Fox Islands Aleutian Islands H = 06 26 11.7 h 80 km MAG 5.1 (CGS) Edmonton eP 06 32 31 d Mould Bay iP 06 32 18 c Resolute eP 06 33 (06)	OCTOBER 14 Mould Bay eP 09 18 (32) Resolute eP 09 19 (18)
OCTOBER 14 U.S.C.G.S. 45.3N, 151.0E Kurile Islands H = 07 53 42.7 h 35 km MAG 4.1 (CGS) Mould Bay eP 08 02 08	OCTOBER 14 Mould Bay eP 09 33 31	

DOMINION OBSERVATORIES

OCTOBER 14 U. S. C. G. S. 45.5N, 151.7E Kurile Islands H = 09 29 07.1 h 40 km MAG 4.6 (CGS) Alert eP 09 38 07 Edmonton eP 09 38 57	OCTOBER 14 Mould Bay eP 11 12 38 d	OCTOBER 14 Mould Bay eP 12 45 58 (d)
OCTOBER 14 Resolute eP 10 02 (23)	OCTOBER 14 U. S. C. G. S. 45.0N, 150.9E Kurile Islands H = 11 13 19.4 h 45 km MAG 4.4 (CGS) Mould Bay eP 11 21 (44)	OCTOBER 14 U. S. C. G. S. 44.7N, 150.2E Kurile Islands H = 12 44 54.1 h 50 km MAG 4.3 (CGS) Edmonton eP 12 54 52 Mould Bay eP 12 53 24 (d)
OCTOBER 14 Yellowknife e 10 09 (47)	OCTOBER 14 U. S. C. G. S. 45.5N, 151.7E Kurile Islands H = 11 23 13.5 h 50 km MAG 4.3 (CGS) Edmonton eP 11 33 02	OCTOBER 14 U. S. C. G. S. 44.8N, 151.0E Kurile Islands H = 13 21 45.2 h 60 km MAG 5.9 (CGS) Alert iP 13 30 48 c Edmonton eP 13 31 38 d Halifax eP 13 34 21 (c) London eP 13 33 54 Mould Bay eP 13 30 12 Ottawa eP 13 33 53 d Scarboro eP 13 33 56 Schefferville eP 13 33 25 (d) Seven Falls eP 13 33 55 Shawinigan Falls eP 13 33 55 d Victoria eP 13 31 17 (d) Yellowknife eP 13 30 58
OCTOBER 14 U. S. C. G. S. 45.1N, 150.8E Kurile Islands H = 10 01 27.2 h 45 km MAG 4.2 (CGS) Edmonton eP 10 11 21 (c)	OCTOBER 14 Mould Bay eP 11 53 (14)	
OCTOBER 14 71.4N, 73.3W Near Coast of Baffin Island, NWT H = 10 15 36 MAG 4.2 Frobisher Pn taken as 0' 00" Sn - Pn 1' 22" Lg - Pn 2' 03" D = 820 km Resolute Pn 10 17 22 Sn 10 18 35 Lg 10 19 23 D = 829 km	OCTOBER 14 U. S. C. G. S. 45.4N, 150.9E Kurile Islands H = 11 56 31.0 h 45 km MAG 4.4 (CGS) Mould Bay eP 12 04 54	
	OCTOBER 14 U. S. C. G. S. 45.6N, 152.4E Kurile Islands H = 12 11 42.5 h 40 km MAG 4.5 (CGS) Mould Bay eP 12 20 (03)	

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 14 U.S.C.G.S. 45.0N, 151.1E Kurile Islands H = 13 53 17.4 h 30 km MAG 4.8 (CGS) Edmonton eP 14 03 13 Resolute eP 14 02 (31)	Mould Bay eP 17 58 38 Resolute eP 17 59 25 d Schefferville eP 18 01 53 Yellowknife eP 17 59 27	OCTOBER 14 Mould Bay iP 21 23 15 d
OCTOBER 14 Mould Bay eP 14 54 (44)	OCTOBER 14 U.S.C.G.S. 45.0N, 151.3E Kurile Islands H = 17 56 17.8 h 30 km MAG 4.5 (CGS) Mould Bay eP 18 04 (45)	OCTOBER 14 Yellowknife iP 21 24 37
OCTOBER 14 Mould Bay eP 15 30 45 Resolute eP 15 31 32	OCTOBER 14 Mould Bay eP 18 09 24 (d)	OCTOBER 14 U.S.C.G.S. 44.3N, 149.3E Kurile Islands H = 21 19 54.7 h 45 km MAG 4.7 (CGS) Edmonton eP 21 29 (57) Resolute eP 21 29 15 Yellowknife eP 21 29 19
OCTOBER 14 Mould Bay eP 15 53 (14)	OCTOBER 14 Resolute eP 21 02 13	OCTOBER 14 U.S.C.G.S. 44.5N, 149.2E Kurile Islands H = 21 43 46.7 h 60 km MAG 4.1 (CGS) Mould Bay eP 21 52 18 Resolute eP 21 53 05
OCTOBER 14 Mould Bay eP 16 20 (02)	OCTOBER 14 U.S.C.G.S. 45.0N, 150.5E Kurile Islands H = 21 08 00.1 h 45 km MAG 5.1 (CGS) Alert eP 21 17 02 Edmonton eP 21 17 (55) Mould Bay eP 21 16 26 Schefferville eP 21 19 41 Yellowknife eP 21 17 16 c	OCTOBER 14 U.S.C.G.S. 44.5N, 150.6E Kurile Islands H = 22 35 31.7 h 45 km MAG 5.0 (CGS) Alert eP 22 44 38 Edmonton eP 22 45 29
OCTOBER 14 U.S.C.G.S. 45.2N, 151.3E Kurile Islands H = 17 59 15.3 h 60 km MAG 5.0 (CGS) Alert iP 17 59 15 Edmonton eP 18 00 06 (d)		

DOMINION OBSERVATORIES

Mould Bay eP 22 44 03 d	OCTOBER 15 Resolute eP 00 58 (37)	Resolute eP 05 19 (50)
Yellowknife eP 22 44 51		
OCTOBER 14 U.S.C.G.S. 39.5N, 74.4E Sinkiang Province, China H = 23 05 16.0 h 69 km Mould Bay eP 23 15 45 d	OCTOBER 15 Mould Bay eP 03 24 43	OCTOBER 15 Resolute eP 05 45 (49)
OCTOBER 15 U.S.C.G.S. 45.0N, 151.8E Kurile Islands H = 00 38 53.0 h 45 km MAG 4.3 (CGS) Mould Bay eP 00 47 17 i 00 51 17	OCTOBER 15 U.S.C.G.S. 48.9N, 151.7E Kurile Islands H = 04 33 44.0 h 33 km MAG 4.2 (CGS) Mould Bay eP 04 41 41	OCTOBER 15 Resolute eP 06 58 56
OCTOBER 15 U.S.C.G.S. 45.1N, 150.9E Kurile Islands H = 00 42 52.4 h 45 km MAG 4.2 (CGS) Alert eP 00 51 54	OCTOBER 15 U.S.C.G.S. 44.5N, 149.6E Kurile Islands H = 04 56 26.6 h 50 km MAG 4.5 (CGS) Edmonton eP 05 06 26 (c) Mould Bay eP 05 04 58 Resolute eP 05 05 45 d	OCTOBER 15 U.S.C.G.S. 60.1N, 134.7W Yukon H = 07 26 10.8 h 33 km MAG 4.3 (CGS) Edmonton eP 07 29 29 d Mould Bay eP 07 30 23 (S) 31 34 Port Hardy eP 07 31 11 Resolute eP 07 31 03
OCTOBER 15 Alert iP 00 58 59	OCTOBER 15 Mould Bay eP 05 16 (05) Resolute eP 05 16 (51)	OCTOBER 15 Victoria eP 07 31 50
OCTOBER 15 Mould Bay eP 00 56 (12)	OCTOBER 15 U.S.C.G.S. 44.3N, 151.4E Kurile Islands H = 05 10 34.2 h 45 km MAG 4.2 (CGS) Mould Bay eP 05 19 04 (d)	OCTOBER 15 U.S.C.G.S. 45.0N, 151.1E Kurile Islands H = 08 00 11.5 h 40 km MAG 4.9 (CGS) Alert eP 08 09 15 (c) Edmonton eP 08 10 (05) Mould Bay eP 08 08 38

SEISMOLOGICAL BULLETIN - 1963

Ottawa eP 08 12 22	London iP 09 44 21	OCTOBER 15 U.S.C.G.S. 44.6N, 149.0E
Resolute eP 08 09 (24)	Mould Bay iP 09 40 35 d	Kurile Islands H = 10 47 12.6 h 50 km MAG 5.4 (CGS)
Schefferville eP 08 11 54	Ottawa eP 09 44 20	Alert
OCTOBER 15	Resolute eP 09 41 22 d	eP 10 56 18
U.S.C.G.S. 45.3N, 150.2E	Scarborough eP 09 44 22	Edmonton eP 10 57 (14)
Kurile Islands H = 09 02 08.3 h 40 km MAG 5.4 (CGS)	Schefferville iP 09 43 51 d	London iP 10 59 29 c
Edmonton eP 09 12 04 d	Victoria eP 09 41 45 (d)	Mould Bay eP 10 55 46
London (eP) 09 14 20	OCTOBER 15	Ottawa eP 10 59 27
Mould Bay eP 09 10 34 d	U.S.C.G.S. 67.2N, 18.4W	Resolute eP 10 56 31
Ottawa eP 09 14 19	North of Iceland H = 09 59 30.1 h 33 km MAG 5.2 (CGS)	Schefferville eP 10 58 59 c
Resolute eP 09 11 20	Alert eP 10 03 38 (d)	Victoria iP 10 56 55 c
Schefferville eP 09 13 50 (c)	Edmonton eP 10 07 38 c	OCTOBER 15
OCTOBER 15	Mould Bay eP 10 05 (29)	Mould Bay eP 11 21 (49)
U.S.C.G.S. 44.3N, 149.5E	Ottawa eP 10 06 34	OCTOBER 15
Kurile Islands H = 09 14 34.3 h 33 km MAG 4.3 (CGS)	Resolute eP 10 04 (47)	Mould Bay eP 11 32 46 c
Mould Bay eP 09 23 09	Schefferville eP 10 04 57	OCTOBER 15
OCTOBER 15	OCTOBER 15	U.S.C.G.S. 45.1N, 151.9E
U.S.C.G.S. 45.2N, 150.2E	Mould Bay eP 10 38 58 (d)	Kurile Islands H = 11 53 45.5 h 55 km MAG 4.8 (CGS)
Kurile Islands H = 09 32 08.7 h 40 km MAG 5.5 (CGS)	OCTOBER 15	Alert
Edmonton eP 09 42 05 d	Alert eP 10 55 (58)	eP 12 02 46 c
		Edmonton eP 12 03 34 d
		Mould Bay eP 12 02 (08)
		Resolute eP 12 02 (57)

DOMINION OBSERVATORIES

OCTOBER 15

U. S. C. G. S.

45.1N, 151.8E

Kurile Islands

H = 12 03 48.7

h 45 km

MAG 4.7 (CGS)

Alert

eP 12 12 50 c

Edmonton

eP 12 13 39 c

Mould Bay

eP 12 12 12

Resolute

eP 12 13 01

OCTOBER 15

46°10'N, 77°35'W

About 10 miles from

Deep River, Ontario

H = 12 07 50.6

h 15 km

MAG 3.0

London

Sn 12 09 39

Lg 12 09 57

D = 450 km

Ottawa

Pn 12 08 16.6

P₁ 12 08 20

Sn 12 08 38

S₁ 12 08 42.5

D = 175 km

Sept-Iles

Sn 12 11 13

Lg 12 12 03

D = 918 km

Seven Falls

e 12 09 52

Lg 12 10 07

D = 528 km

OCTOBER 15

46°10'N, 77°35'W

About 10 miles from

Deep River, Ontario

H = 12 29 02

h 14 km

MAG 4.4

Frobisher

Lg - Sn 117 seconds

D = 2000 km

London

Pn 12 30 03.6

i 12 30 12

(P₁) 12 30 13.8

Sn 12 30 51

S₁ 12 31 08.7

D = 450 km

Montreal

Pn 12 29 45

P₁ 12 29 51.4

i 12 29 54

Sn 12 30 19

S₁ 12 30 29

D = 310 km

Ottawa

Pn 12 29 28.0

P₁ 12 29 32.2

Sn 12 29 50

D = 175 km

Schefferville

Pn 12 31 32

Sn 12 33 25

Lg 12 34 30

D = 1230 km

Sept-Iles

Pn 12 30 56

Sn 12 32 22

Lg 12 33 12

D = 918 km

Seven Falls

Pn 12 30 07

Sn 12 30 59

D = 528 km

Shawinigan Falls

Pn 12 29 55

Sn 12 30 31

D = 373 km

OCTOBER 15

Mould Bay

eP 13 50 14

OCTOBER 15

46°10'N, 77°35'W

About 10 miles from

Deep River, Ontario

H = 13 59 53

h 14 km

MAG 3.8 (CGS)

4.5 (DO)

Frobisher

Lg - Sn 117 second

D = 2000 km

London

Pn 14 00 55

P₁ 14 01 05

Sn 14 01 42

S₁ 14 02 59.5

D = 450 km

Ottawa

Pn 14 00 18.0

P₁ 14 00 23.2

Sn 14 00 (41)

D = 175 km

Montreal

Pn 14 03 36

P₁ 14 00 42.4

i 14 00 45

Sn 14 01 (10)

S₁ 14 01 20

D = 310 km

Schefferville

Pn 14 02 24

Sn 14 04 17

Lg 14 05 24

D = 1230 km

Sept-Iles

Pn 14 01 46

Sn 14 03 13

Lg 14 04 02

D = 918 km

SEISMOLOGICAL BULLETIN - 1963

Seven Falls

Pn 14 00 57
(Sn) 14 01 50
(Lg) 14 02 06
D = 528 km

Shawinigan Falls

Pn 14 00 46
S₁ 14 01 18
D = 273 km

OCTOBER 15

Resolute
eP 14 15 (09)

OCTOBER 16

U.S.C.G.S.
42.4°N, 70.7°W
North Coast of
Massachusetts
H = 15 31 00.7
h 25 km
MAG 4.2 (PAL)
4.7 (OTT)

Halifax

Pn 15 32 20
Sn 15 33 18
S₁ 15 33 51
D = 625 km

London

e 15 33 15
(Sn) 15 34 04.0
S₁ 15 35 04
D = 875 km

Montreal

Pn 15 31 58
P₁ 15 32 07.4
Sn 15 32 34
S₁ 15 32 44.5
D = 416 km

Ottawa

e 15 32 20
P₁ 15 32 23
Sn 15 33 05
S₁ 15 33 27.5
D = 523 km

Schefferville

Pn 15 33 56
Sn 15 36 12
Lg 15 37 29
D = 1408 km

Seven Falls

Pn 15 32 04
Sn 15 32 55
S₁ 15 33 19
D = 525 km

Shawinigan Falls

e(P₁) 15 32 13
Sn 15 32 52
S₁ 15 33 15
D = 490 km

OCTOBER 15

Yellowknife
eP 16 42 42

OCTOBER 15

U.S.C.G.S.
45.6N, 150.2E
Kurile Islands
H = 16 16 05.7
h 33 km
MAG 4.6 (CGS)

Mould Bay

eP 17 24 31
Resolute
eP 17 25 (17)

OCTOBER 15

U.S.C.G.S.
44.8N, 150.4E
Kurile Islands
H = 17 35 00.3
h 40 km
MAG 4.2 (CGS)
Mould Bay
eP 17 43 30

OCTOBER 15

U.S.C.G.S.
45.2N, 151.3E
Kurile Islands
H = 17 54 04.3
h 29 km
MAG 4.6 (CGS)
Alert
eP 18 03 07 (d)
Mould Bay
eP 18 02 (32)
Resolute
eP 18 03 (19)

OCTOBER 15

U.S.C.G.S.
45.3N, 151.0E
Kurile Islands
H = 18 23 57.8
h 35 km
MAG 4.9 (CGS)
Alert
eP 18 32 59
Mould Bay
eP 18 32 (22)
Resolute
eP 18 33 (10)

OCTOBER 15

U.S.C.G.S.
45.4N, 151.1E
Kurile Islands
H = 20 41 30.2
h 50 km
MAG 4.9 (CGS)
Alert
eP 20 50 30 (d)
Edmonton
eP 20 51 (21)
Mould Bay
eP 20 49 (53)
Resolute
eP 20 50 (38)
Schefferville
eP 20 53 10 d

DOMINION OBSERVATORIES

Shawinigan Falls
eP 20 53 40
Victoria
eP 20 51 00

OCTOBER 15
U.S.C.G.S.
3.0S, 129.9E
Ceram
H = 21 44 58.0
h 27 km
MAG 5.2 (CGS)
Mould Bay
eP 21 58 32
Schefferville
eP 22 04 02

OCTOBER 16
U.S.C.G.S.
45.1N, 153.7E
Kurile Islands
H = 00 45 59.5
h 45 km
MAG 4.3 (CGS)
Mould Bay
eP 00 54 19
Resolute
eP 00 55 (07)

OCTOBER 16
U.S.C.G.S.
46.1N, 151.8E
Kurile Islands
H = 01 25 06.7
h 45 km
MAG 4.9 (CGS)
Alert
eP 01 34 00
Edmonton
eP 01 34 51 c
Mould Bay
eP 01 33 23
Resolute
eP 01 34 (10)

OCTOBER 16
Mould Bay
eP 03 23 29
Resolute
eP 03 24 (15)

OCTOBER 16
Mould Bay
eP 03 56 (04)
Resolute
eP 03 56 (50)

OCTOBER 16
U.S.C.G.S.
44.8N, 150.4E
Kurile Islands
H = 05 15 36.1
h 33 km
MAG 5.2 (CGS)
Alert
eP 05 24 41
Edmonton
eP 05 25 34 d
Mould Bay
eP 05 24 06 c
Ottawa
eP 05 27 49
Resolute
eP 05 24 52
Victoria
eP 05 25 14
Yellowknife
iP 05 24 56

OCTOBER 16
Mould Bay
eP 05 59 (09)
Resolute
eP 05 59 56

OCTOBER 16
Mould Bay
eP 07 08 48

OCTOBER 16
U.S.C.G.S.
45.6N, 151.9E
Kurile Islands
H = 08 33 42.0
h 45 km
MAG 5.0 (CGS)
Alert
iP 08 42 40 c
Edmonton
eP 08 43 30
Mould Bay
eP 08 42 (03)
Resolute
eP 08 42 (49)

OCTOBER 16
U.S.C.G.S.
45.2N, 153.8E
Kurile Islands
H = 09 29 56.7
h 40 km
MAG 4.6 (CGS)
Edmonton
eP 09 39 40 d
Mould Bay
eP 09 38 (20)

OCTOBER 16
U.S.C.G.S.
45.2N, 150.4E
Kurile Islands
H = 10 30 55.2
h 45 km
MAG 5.0 (CGS)
Alert
eP 10 39 58 c
Edmonton
eP 10 40 50 (d)
Mould Bay
eP 10 39 22
Resolute
eP 10 40 09

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 16 U. S. C. G. S. 1.8S, 127.9E Halmahera Region H = 12 47 44.2 h 33 km MAG 5.2 (CGS) Mould Bay eP 13 01 14 (c)	OCTOBER 16 Mould Bay eP 16 59 (07)	OCTOBER 16 Mould Bay eP 19 25 15 (c)
OCTOBER 16 U. S. C. G. S. 38.6N, 73.4E Tadzhik S. S. R. H = 15 43 00.8 h 33 km MAG 5.9 (CGS) Alert eP 15 52 44 Edmonton eP 15 55 (49) Halifax eP 15 55 56 London eP 15 56 (27) Mould Bay eP 15 53 36 Ottawa eP 15 56 10 Resolute eP 15 53 (47) Schefferville eP 15 55 (13) Victoria eP 15 56 10 Yellowknife iP 15 55 01	OCTOBER 16 Victoria eP 17 03 14	OCTOBER 16 Mould Bay iP 20 41 47 c
OCTOBER 16 U. S. C. G. S. 44.4N, 150.9E Kurile Islands H = 21 30 52.7 h 80 km MAG 5.0 (CGS) Alert eP 21 39 55 c Edmonton eP 21 40 45 Mould Bay eP 21 39 18 c Resolute eP 21 40 06 d Victoria eP 21 40 25	OCTOBER 16 Alert eP 17 08 46 Mould Bay iP 17 07 30 c Resolute eP 17 07 26 c Schefferville e(P) 17 07 16	OCTOBER 16 U. S. C. G. S. 17.7N, 62.0W Leeward Islands Region H = 22 21 15.8 h 67 km MAG 4.9 (CGS) Alert eP 22 31 51 Mould Bay eP 22 30 (31) Victoria eP 22 31 04
OCTOBER 16 Mould Bay eP 16 07 (05)	OCTOBER 16 Yellowknife eP 17 05 28	OCTOBER 16 U. S. C. G. S. 28.8N, 58.0E Southern Iran H = 19 02 25.0 h 32 km MAG 4.8 (CGS) Alert eP 19 13 06 c Mould Bay iP 19 14 06 c
OCTOBER 16 Mould Bay eP 16 31 24	OCTOBER 16 Mould Bay eP 18 00 (35)	OCTOBER 16 Mould Bay eP 18 33 20 i 18 38 19
	OCTOBER 16 Resolute eP 18 52 29	OCTOBER 16 Mould Bay eP 18 38 19
	OCTOBER 16 U. S. C. G. S. 28.8N, 58.0E Southern Iran H = 19 02 25.0 h 32 km MAG 4.8 (CGS) Alert eP 19 13 06 c Mould Bay iP 19 14 06 c	OCTOBER 16 U. S. C. G. S. 17.7N, 62.0W Leeward Islands Region H = 22 21 15.8 h 67 km MAG 4.9 (CGS) Alert eP 22 31 51 Mould Bay eP 22 30 (31) Victoria eP 22 31 04
		OCTOBER 17 Mould Bay eP 00 22 (50)

DOMINION OBSERVATORIES

OCTOBER 17 U. S. C. G. S. 11.6N, 140.6E Mariana Islands Region H = 03 05 50.2 h 70 km MAG 5.1 (CGS) Alert eP 03 18 21 Edmonton eP 03 18 44 Mould Bay eP 03 17 59 Yellowknife eP 03 18 26	OCTOBER 17 Resolute eP 05 22 28 OCTOBER 17 U. S. C. G. S. 44.3N, 149.1E Kurile Islands H = 08 10 55.2 h 45 km MAG 4.7 (CGS) Edmonton eP 08 20 59 d Mould Bay eP 08 19 29 Resolute eP 08 20 (16)	Mould Bay eP 09 44 01 (d) OCTOBER 17 Mould Bay eP 09 52 (50) OCTOBER 17 U. S. C. G. S. 43.8N, 151.0E Kurile Islands H = 10 16 48.9 h 50 km MAG 4.5 (CGS) Edmonton eP 10 26 48 Resolute eP 10 26 10
OCTOBER 17 U. S. C. G. S. 45.2N, 151.7E Kurile Islands H = 04 19 50.0 h 50 km MAG 4.5 (CGS) Alert eP 04 28 51 c Edmonton eP 04 29 40 Mould Bay eP 04 28 13	OCTOBER 17 Resolute eP 08 33 (01) OCTOBER 17 U. S. C. G. S. 45.8N, 151.7E Kurile Islands H = 08 31 18.6 h 45 km MAG 4.6 (CGS) Alert e(P) 08 40 18 Edmonton eP 08 41 07 Mould Bay eP 08 39 (42)	OCTOBER 17 U. S. C. G. S. 45.1N, 150.3E Kurile Islands H = 12 58 33.6 h 50 km MAG 4.2 (CGS) Edmonton eP 13 08 29 Mould Bay eP 13 07 (01)
OCTOBER 17 46°10'N, 77°35'W About 10 miles from Deep River, Ontario H = 05 13 40.8 h 15 km MAG 3.0 London Lg 05 15 47 D = 450 km Ottawa Pn 05 14 06.8 P ₁ 05 14 10 Sn 05 14 28 S ₁ 05 14 32 D = 175 km	OCTOBER 17 U. S. C. G. S. 38.8N, 73.4E Tadzhik, S. S. R. H = 09 33 24.0 h 40 km MAG 4.4 (CGS) Edmonton eP 09 46 (12)	OCTOBER 17 U. S. C. G. S. 44.2N, 149.2E Kurile Islands H = 14 06 32.2 h 40 km MAG 4.6 (CGS) Edmonton eP 14 16 36 d Mould Bay eP 14 15 8 Resolute eP 14 15 54

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 17	OCTOBER 17	Schefferville
U.S.C.G.S.	75°10'N, 74°10'W	eP 23 36 22
9.8N, 126.5E	On Baffin Bay, about	Shawinigan Falls
Near East Coast of	100 miles East of Devon	eP 23 36 53
Mindanao, P.I.	Island, NWT	Victoria
H = 14 13 59.8	H = 16 49 47.6	eP 23 34 20
h 33 km	MAG 3.6	Yellowknife
MAG 5.4 (CGS)	Alert	eP 23 33 56
Alert	Pn 16 51 38	
eP 14 26 47	Sn 16 53 07	
Mould Bay	D = 855 km	OCTOBER 17
eP 14 26 39 d	Mould Bay	U.S.C.G.S.
Resolute	Pn 16 52 24	44.5N, 149.0E
eP 14 27 07 c	D = 1216 km	Kurile Islands
	Resolute	H = 23 54 56.9
	Pn 16 51 05	h 45 km
	Sn 16 52 08.5	MAG 4.9 (CGS)
	D = 590 km	Edmonton
		(eP) 24 05 00
OCTOBER 17	OCTOBER 17	Mould Bay
U.S.C.G.S.	Yellowknife	eP 24 03 30
44.1N, 149.2E	eP 23 04 40	Resolute
Kurile Islands		eP 24 04 16 d
H = 15 03 12.7		
h 55 km		
MAG 4.6 (CGS)		
Edmonton		
eP 15 13 16		
Mould Bay		
eP 15 11 (48)		
Resolute		
eP 15 12 (33)		
OCTOBER 17	OCTOBER 17	OCTOBER 18
48.5°N, 125°4W	U.S.C.G.S.	U.S.C.G.S.
West of Vancouver Island	44.6N, 149.0E	44.5N, 149.1E
H = 15 51 13	Kurile Islands	Kurile Islands
MAG 1.6	H = 23 24 34.4	H = 01 59 38.8
Alberni	h 45 km	h 45 km
eP 15 51 28.6	MAG 5.4 (CGS)	MAG 4.9 (CGS)
D = 97 km	Alert	Edmonton
Port Hardy	eP 23 33 41	eP 02 09 41
eP 15 51 55.2	Edmonton	Mould Bay
D = 290 km	eP 23 34 36 c	eP 02 08 12 (d)
Victoria	Halifax	Resolute
eP 15 51 36.3	eP 23 37 17 (d)	eP 02 08 58
D = 144 km	London	Schefferville
	eP 23 36 (52)	eP 02 11 25
	Mould Bay	
	eP 23 33 05	
	Ottawa	
	eP 23 36 50	
	Port Hardy	
	eP 23 33 55	
	Resolute	
	eP 23 33 53	

DOMINION OBSERVATORIES

OCTOBER 18

U. S. C. G. S.

44.5N, 150.4E

Kurile Islands

H = 04 01 21.7

h 60 km

MAG 4.8 (CGS)

Alert

eP 04 10 (27)

Edmonton

eP 04 11 18 (c)

Mould Bay

eP 04 09 51

Resolute

eP 04 10 37

OCTOBER 18

U. S. C. G. S.

42.8N, 141.4E

Near North Coast of

Hokkaido, Japan

H = 05 16 10.4

h 40 km

MAG 4.6 (CGS)

Mould Bay

eP 05 25 10

Resolute

eP 05 25 53 c

OCTOBER 18

U. S. C. G. S.

44.7N, 149.9E

Kurile Islands

H = 06 20 21.6

h 60 km

MAG 4.3 (CGS)

Edmonton

eP 06 30 18 c

Mould Bay

eP 06 28 51 (c)

Resolute

eP 06 29 37

OCTOBER 18

77.5°N, 118.1°W

Off Coast of Prince

Patrick Island, NWT

H = 07 09 28.6

MAG 3.0

Mould Bay

P₁ 07 09 51 c

S₁ 07 10 08

D = 140 km

OCTOBER 18

77.5°N, 118.1°W

Off Prince Patrick

Island, NWT

H = 07 11 35.6

MAG 1.6

Mould Bay

P₁ 07 11 58

S₁ 07 12 15

D = 140 km

OCTOBER 18

77.5°N, 118.1°W

Off East Coast of Prince

Patrick Island, NWT

H = 07 12 46.6

MAG 2.1

Mould Bay

P₁ 07 13 09

S₁ 07 13 26

D = 140 km

OCTOBER 18

77.5°N, 118.1°W

Off Prince Patrick

Island, NWT

H = 07 14 20.6

MAG 1.6

Mould Bay

P₁ 07 14 43

S₁ 07 15 00

D = 140 km

OCTOBER 18

77.5°N, 118.1°W

Off Prince Patrick

Island, NWT

H = 07 15 28.6

MAG 1.6

Mould Bay

F₁ 07 15 51

S₁ 07 16 08

D = 140 km

OCTOBER 18

77.5°N, 118.1°W

Off Prince Patrick

Island, NWT

H = 07 24 05.6

MAG 1.9

Mould Bay

P₁ 07 24 28

S₁ 07 24 46

D = 140 km

OCTOBER 18

U. S. C. G. S.

44.8N, 150.0E

Kurile Islands

H = 07 55 14.0

h 55 km

MAG 4.3 (CGS)

Edmonton

eP 08 05 11

Mould Bay

eP 08 03 (43)

Resolute

eP 08 04 29

OCTOBER 18

77.5°N, 118.1°W

Off Prince Patrick Island,

Near Cape Leopold

McClintock, NWT

H = 08 07 02.6

MAG 3.4

Edmonton

eP 08 09 53

SEISMOLOGICAL BULLETIN - 1963

Mould Bay	OCTOBER 18	OCTOBER 18
P ₁ 08 07 25	77.5°N, 118.1°W	77.5°N, 118.1°W
S ₁ 08 07 42	Off Prince Patrick	Off Prince Patrick
D = 140 km	Island, NWT	Island, NWT
Resolute	H = 08 19 03.6	H = 08 39 40.6
e 08 08 37	MAG 1.7	MAG 1.9
(Sn) 08 09 42	Mould Bay	Mould Bay
Lg 08 10 17	P ₁ 08 19 26	P ₁ 08 40 03
D = 690 km	S ₁ 08 19 43	S ₁ 08 40 20
	D = 140 km	D = 140 km
OCTOBER 18	OCTOBER 18	OCTOBER 18
77.5°N, 118.1°W	77.5°N, 118.1°W	77.5°N, 118.1°W
Off Prince Patrick	Off Prince Patrick	Off Prince Patrick
Island, NWT	Island, NWT	Island, NWT
H = 08 10 22.6	H = 03 22 04.6	H = 08 54 22.6
MAG 1.8	MAG 2.0	MAG 1.5
Mould Bay	Mould Bay	Mould Bay
P ₁ 08 10 45	P ₁ 08 22 27	P ₁ 08 54 45
S ₁ 08 11 03	S ₁ 08 22 44	S ₁ 08 55 02
D = 140 km	D = 140 km	D = 140 km
OCTOBER 18	OCTOBER 18	OCTOBER 18
77.5°N, 118.1°W	77.5°N, 118.1°W	77.5°N, 118.1°W
Off Prince Patrick	Off Prince Patrick	Mould Bay
Isle, NWT	Island, NWT	eP 09 02 02
H = 08 11 42.6	H = 08 29 30.6	Resolute
MAG 1.8	MAG 1.5	eP 09 02 48
Mould Bay	Mould Bay	OCTOBER 18
F ₁ 08 12 15	P ₁ 08 29 53	Edmonton
S ₁ 08 12 32	S ₁ 08 30 10	eP 09 03 29
D = 140 km	D = 140 km	
OCTOBER 18	OCTOBER 18	OCTOBER 18
77.5°N, 118.1°W	77.5°N, 118.1°W	77.5°N, 118.1°W
Off Prince Patrick	Off Prince Patrick	Off Prince Patrick
Island, NWT	Island, NWT	Island, NWT
H = 08 14 39.6	H = 08 38 26.6	H = 09 30 43.6
MAG 1.5	MAG 1.6	MAG 1.8
Mould Bay	Mould Bay	Mould Bay
P ₁ 08 15 02	P ₁ 08 38 49	P ₁ 09 31 06
S ₁ 08 15 19	S ₁ 08 39 06	S ₁ 09 31 23
D = 140 km	D = 140 km	D = 140 km

DOMINION OBSERVATORIES

<p>OCTOBER 18 U.S.C.G.S. 44.9N, 152.8E Kurile Islands H = 10 18 18.3 h 55 km MAG 4.3 (CGS) Mould Bay eP 10 26 (39) Resolute eP 10 27 27</p>	<p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 11 06 27.6 MAG 2.2 Mould Bay P₁ 11 05 50 S₁ 11 07 07 D = 140 km</p>	<p>OCTOBER 18 U.S.C.G.S. 45.6N, 150.6E Kurile Islands H = 17 55 00.2 h 40 km MAG 5.2 (CGS) Alert iP 18 04 00 c Edmonton eP 18 04 53 Mould Bay iP 18 03 23 c Resolute iP 18 04 10 c Schefferville eP 18 06 39 (c) Shawinigan Falls eP 18 07 09 c Victoria eP 18 04 33</p>
<p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 10 47 51.4 MAG 1.9 Mould Bay P₁ 10 48 14 S₁ 10 48 31 D = 140 km</p>	<p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 12 43 25.6 MAG 1.6 Mould Bay P₁ 12 43 48 S₁ 12 44 05 D = 140 km</p>	<p>OCTOBER 18 71.4°N, 73.3°W Near East Coast of Baffin Isle., NWT H = 19 32 31 MAG 4.8 Frobisher Pn taken as 0' 00" Sn - Pn 1' 21" Lg - Sn 41" D = 820 km</p>
<p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle. H = 10 53 49.1 MAG 2.2 Mould Bay P₁ 10 54 11.5 S₁ 10 54 29.0 D = 140 km</p>	<p>OCTOBER 18 76°20'N, 75°00'W In Baffin Bay - about 75 miles N.W. of Devon Isle., NWT H = 13 46 12 MAG 3.5 Alert Sn - Pn 1' 15" D = 705 km Mould Bay Pn 13 48 39 D = 1155 km Resolute Pn 13 47 25 Sn 13 48 24 D = 550 km</p>	<p>OCTOBER 18 Resolute Pn 19 34 17 Sn 19 35 31 Lg 19 36 19 D = 829 km Schefferville Pn 19 36 16 Sn 19 39 16 Lg 19 41 01 D = 1810 km Mould Bay Pn 19 35 39.5 D = 1540 km</p>
<p>OCTOBER 18 77.5°N, 118.1°W Off Prince Patrick Isle H = 11 04 42.6 MAG 1.4 Mould Bay P₁ 11 05 05 S₁ 11 05 22 D = 140 km</p>	<p>OCTOBER 18 Resolute eP 17 46 (45)</p>	

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 18	Schefferville	OCTOBER 19
Ottawa	e(P) 21 34 32	U.S.C.G.S.
eP 19 45 54	Shawinigan Falls	18.3S, 71.2W
	eP 21 35 02	Near Coast of
OCTOBER 18	Victoria	Southern Peru
U.S.C.G.S.	eP 21 32 25	H = 02 14 17.4
47.6N, 154.3E	Yellowknife	h 78 km
Kurile Islands	iP 21 32 06	MAG 4.5
H = 20 05 14.4		Edmonton
h 40 km	OCTOBER 18	eP 02 26 21 c
MAG 5.1 (CGS)	77.5°N, 118.1°W	
Alert	Off Prince Patrick Isle.	OCTOBER 19
eP 20 13 57 c	H = 22 41 34.6	U.S.C.G.S.
Edmonton	MAG 1.6	46.8N, 153.7E
eP 20 14 44 c	Mould Bay	Kurile Islands
Mould Bay	P ₁ 22 41 57	H = 02 18 37.9
eP 20 13 16 c	S ₁ 22 42 14	h 45 km
Resolute	D = 140 km	MAG 5.2 (CGS)
eP 20 14 05		Alert
Schefferville	OCTOBER 18	eP 02 27 26 c
eP 20 16 37	Mould Bay	Edmonton
Shawinigan Falls	eP 21 42 38 (c)	(eP) 02 28 16 (d)
eP 20 17 07 c		London
Victoria	OCTOBER 18	eP 02 30 34
eP 20 14 24	U.S.C.G.S.	Mould Bay
Yellowknife	46.1N, 152.5E	eP 02 26 45 (c)
eP 20 14 04	Kurile Islands	Ottawa
	H = 22 52 50.6	eP 02 30 35
OCTOBER 18	h 40 km	Resolute
Resolute	MAG 4.4 (CGS)	eP 02 27 34
eP 21 12 05	Alert	Schefferville
	eP 23 01 46	eP 02 30 (06)
OCTOBER 18		Shawinigan Falls
U.S.C.G.S.	OCTOBER 18	eP 02 30 36
45.2N, 151.1E	U.S.C.G.S.	Victoria
Kurile Islands	44.7N, 149.2E	eP 02 27 53
H = 21 22 52.7	Kurile Islands	Yellowknife
h 45 km	H = 23 43 35.9	i 02 27 34
MAG 5.0 (CGS)	h 45 km	
Alert	MAG 4.4 (CGS)	
eP 21 31 54 d	Mould Bay	
Edmonton	eP 23 52 07	
eP 21 32 45	Resolute	
Mould Bay	eP 23 52 53	
eP 21 31 17 (d)		

DOMINION OBSERVATORIES

OCTOBER 19
 U.S.C.G.S.
 46.7N, 154.0E
 Kurile Islands
 H = 03 02 43.0
 h 33 km
 MAG 3.9 (CGS)
 Alert
 eP 03 11 33

OCTOBER 19
 U.S.C.G.S.
 46.5N, 153.9E
 Kurile Islands
 H = 03 15 02.5
 h 40 km
 MAG 5.1 (CGS)
 Alert
 i 03 23 52
 Edmonton
 eP 03 24 38 (d)
 Mould Bay
 eP 03 23 12
 Resolute
 eP 03 24 01
 Shawinigan Falls
 eP 03 27 05
 Victoria
 eP 03 24 18
 Yellowknife
 eP 03 24 02

OCTOBER 19
 U.S.C.G.S.
 46.6N, 153.8E
 Kurile Islands
 H = 03 34 19.6
 h 33 km
 MAG 5.4 (CGS)
 Alert
 eP 03 43 09 c
 Edmonton
 eP 03 43 56
 London
 eP 03 46 18

Mould Bay
 eP 03 42 29 (c)
 Ottawa
 eP 03 46 18
 Resolute
 eP 03 43 18
 Schefferville
 eP 03 45 50
 Shawinigan Falls
 eP 03 46 19
 Victoria
 eP 03 43 37
 Yellowknife
 iP 03 43 18

OCTOBER 19
 U.S.C.G.S.
 46.8N, 153.8E
 Kurile Islands
 H = 03 47 07.7
 h 25 km
 MAG 5.2 (CGS)
 Alert
 iP 03 55 59 c
 Edmonton
 eP 03 56 45 c
 London
 eP 03 59 07
 Mould Bay
 eP 03 55 18 (c)
 Ottawa
 eP 03 59 06
 Resolute
 eP 03 56 06
 Schefferville
 eP 03 58 37
 Shawinigan Falls
 eP 03 59 06
 Victoria
 eP 03 56 24
 Yellowknife
 eP 03 56 05

OCTOBER 19
 U.S.C.G.S.
 46.8N, 153.7E
 Kurile Islands
 H = 04 07 35.4
 h 40 km
 MAG 4.5 (CGS)
 Alert
 eP 04 16 25 (d)
 Mould Bay
 eP 04 15 (45)

OCTOBER 19
 U.S.C.G.S.
 47.3N, 153.6E
 Kurile Islands
 H = 04 10 44.0
 h 40 km
 MAG 4.2 (CGS)
 Alert
 eP 04 19 30

OCTOBER 19
 U.S.C.G.S.
 44.4N, 149.3E
 Kurile Islands
 H = 04 26 17.4
 h 50 km
 MAG 4.5 (CGS)
 Resolute
 eP 04 35 36

OCTOBER 19
 Mould Bay
 eP 05 47 (24)

OCTOBER 19
 U.S.C.G.S.
 44.6N, 149.1E
 Kurile Islands
 H = 05 41 18.1
 h 40 km
 MAG 4.2 (CGS)
 Resolute
 eP 05 50 37

SEISMOLOGICAL BULLETIN - 1963

- OCTOBER 19
 59.0°N, 67.8°W
 Toulmustouc River
 Area, Que.
 or
 50.0°N, 65.0°W
 Mouth of St. Lawrence
 About 20 miles W. of
 Anticosti Isle.
 H = 06 29 34.4
 MAG 2.9
 Sept-Iles
 P₁ 06 29 51.2
 S₁ 06 30 04
 D = 105 km
 Schefferville
 (P₁) 06 31 00.5
 S₁ 06 32 05
 D = 535 km
- OCTOBER 19
 U.S.C.G.S.
 41.2N, 71.3E
 Kirghiz, S.S.R.
 H = 06 46 06.7
 h 33 km
 MAG 5.0 (CGS)
 Mould Bay
 eP 06 56 30
 Yellowknife
 eP 06 57 54
- OCTOBER 19
 U.S.C.G.S.
 58.7N, 137.4W
 Southern Alaska
 H = 07 00 24.8
 h 34 km
 MAG 3.9 (CGS)
 Mould Bay
 eP 07 04 38 d
 Resolute
 eP 07 05 (20)
- OCTOBER 19
 Victoria
 eP 07 07 10
- OCTOBER 19
 Yellowknife
 eP 07 03 06 c
- OCTOBER 19
 Mould Bay
 eP 07 44 (44)
- OCTOBER 19
 U.S.C.G.S.
 9.9N, 126.1E
 Near East Coast of
 Leyte, Philippine Isle.
 H = 09 02 20.1
 h 86 km
 Mould Bay
 eP 09 14 54
- OCTOBER 19
 U.S.C.G.S.
 45.4N, 149.2E
 Kurile Islands
 H = 09 38 08.0
 h 30 km
 MAG 4.6 (CGS)
 Resolute
 eP 09 47 24
- OCTOBER 19
 U.S.C.G.S.
 62.4N, 149.6W
 Central Alaska
 H = 11 19 31.8
 h 96 km
 MAG 4.3 (CGS)
 Edmonton
 eP 11 24 09 c
 Mould Bay
 eP 11 23 (30)
 Resolute
 eP 11 24 (28)
 Yellowknife
 eP 11 23 12
- OCTOBER 19
 U.S.C.G.S.
 44.8N, 150.9E
 Kurile Islands
 H = 15 42 32.8
 h 40 km
 MAG 4.4 (CGS)
 Resolute
 eP 15 51 (53)
- OCTOBER 19
 U.S.C.G.S.
 44.4N, 150.9E
 Kurile Islands
 H = 16 15 21.4
 h 120 km
 MAG 5.1 (CGS)
 Alert
 iP 16 24 20 c
 Edmonton
 eP 16 25 09 (d)
 Mould Bay
 eP 16 23 43 d
 Resolute
 eP 16 24 30
 Victoria
 eP 16 24 49
 Yellowknife
 iP 16 24 32
- OCTOBER 19
 U.S.C.G.S.
 45.0N, 149.4E
 Kurile Islands
 H = 16 20 53.8
 h 45 km
 MAG 4.4 (CGS)
 Resolute
 eP 16 30 10
- OCTOBER 19
 Mould Bay
 eP 18 04 12

DOMINION OBSERVATORIES

OCTOBER 19	OCTOBER 19	Ottawa
U. S. C. G. S.	U. S. C. G. S.	eP 01 05 29 (d)
46.5N, 152.7E	45.2N, 151.1E	Port Hardy
Kurile Islands	Kurile Islands	iP 01 02 48
H = 18 01 58.0	H = 23 11 40.9	Resolute
h 40 km	h 33 km	eP 01 02 26
MAG 4.2 (CGS)	MAG 4.6 (CGS)	Scarboro
Alert	Alert	eP 01 05 31 (d)
eP 18 10 50	eP 23 20 44	Shawinigan Falls
	Mould Bay	eP 01 05 (26)
	eP 23 20 07 (d)	Victoria
	Resolute	eP 01 02 48
	eP 23 20 54	Yellowknife
		eP 01 02 29
OCTOBER 19	OCTOBER 19	OCTOBER 20
Canadian Arctic	U. S. C. G. S.	Yellowknife
H = 18 03 46.9	45.1N, 151.4E	e 01 16 44
MAG 2.2	Kurile Islands	
Mould Bay	H = 23 44 31.6	
P ₁ 18 04 11.7	h 40 km	
S ₁ 18 04 30.4	MAG 4.4 (CGS)	
D = 153	Alert	
	eP 23 53 35	
	Mould Bay	
	eP 23 52 (57)	
	Resolute	
	eP 23 53 44	
OCTOBER 19	OCTOBER 20	OCTOBER 20
Resolute	U. S. C. G. S.	U. S. C. G. S.
eP 18 21 02	44.7N, 150.7E	44.6N, 150.1E
	Kurile Islands	Kurile Islands
	H = 00 53 07.2	H = 01 14 05.2
	h 25 km	h 45 km
	MAG 6.8 (Pas)	MAG 4.8 (CGS)
	Alert	Edmonton
	eP 01 02 15	eP 01 24 (04)
	Edmonton	
	eP 01 03 (07)	
	Halifax	
	eP 01 05 (55)	
	London	
	eP 01 05 (29)	
	Mould Bay	
	eP 01 01 39	
OCTOBER 19		OCTOBER 20
Mould Bay		Yellowknife
eP 21 05 53		eP 01 50 18

SEISMOLOGICAL BULLETIN - 1963

OCTOBER 20
Resolute
eP 02 15 (41)

OCTOBER 20
U.S.C.G.S.
44.7N, 150.0E
Kurile Islands
H = 02 09 29.4
h 45 km
MAG 4.9 (CGS)

Alert
eP 02 18 34
Edmonton
eP 02 19 27 (c)
Mould Bay
eP 02 17 59 (d)
Resolute
eP 02 18 (45)
Yellowknife
eP 02 18 49

OCTOBER 20
U.S.C.G.S.
44.8N, 150.0E
Kurile Islands
H = 02 20 36.7
h 40 km
MAG 4.2 (CGS)
Resolute
eP 02 29 53

OCTOBER 20
Resolute
eP 02 56 15

OCTOBER 20
U.S.C.G.S.
46.5N, 148.1E
Kurile Islands
H = 02 52 00.0
h 40 km
MAG 3.8 (CGS)
Resolute
eP 03 01 06

OCTOBER 20
U.S.C.G.S.
44.4N, 149.6E
Kurile Islands
H = 02 58 54.2
h 60 km
MAG 4.5 (CGS)
Mould Bay
eP 03 07 26
Resolute
eP 03 08 13

OCTOBER 20
Resolute
eP 03 22 (46)

OCTOBER 20
U.S.C.G.S.
46.7N, 152.0E
Kurile Islands
H = 03 16 51.0
h 33 km
MAG 4.2 (CGS)
Alert
eP 03 25 45

OCTOBER 20
Alert
eP 03 43 24

OCTOBER 20
Resolute
eP 03 40 03

OCTOBER 20
U.S.C.G.S.
44.3N, 149.4E
Kurile Islands
H = 03 41 41.9
h 45 km
MAG 3.9 (CGS)
Mould Bay
eP 03 50 16
Resolute
eP 03 51 03

OCTOBER 20
U.S.C.G.S.
44.8N, 149.9E
Kurile Islands
H = 03 55 28.9
h 55 km
MAG 4.2 (CGS)
Resolute
eP 04 04 44

OCTOBER 20
U.S.C.G.S.
45.3N, 149.7E
Kurile Islands
H = 03 59 15.4
h 55 km
MAG 4.6 (CGS)
Resolute
eP 04 08 28

OCTOBER 20
U.S.C.G.S.
44.4N, 149.9E
Kurile Islands
H = 04 31 37.1
h 50 km
MAG 4.3 (CGS)
Mould Bay
eP 04 40 (08)
Resolute
eP 04 40 55

OCTOBER 20
U.S.C.G.S.
44.9N, 150.3E
Kurile Islands
H = 04 40 09.1
h 50 km
MAG 4.6 (CGS)
Alert
eP 04 49 13
Edmonton
eP 04 50 06 d
Mould Bay
eP 04 48 37

DOMINION OBSERVATORIES

Resolute eP 04 49 24	Mould Bay eP 05 48 59	OCTOBER 20 U.S.C.G.S. 44.4N, 150.3E Kurile Islands H = 06 38 51.0 h 50 km MAG 4.8 (CGS) Resolute eP 06 48 10
OCTOBER 20 U.S.C.G.S. 44.6N, 149.8E Kurile Islands H = 04 46 57.9 h 40 km MAG 4.2 (CGS) Resolute eP 04 56 17	OCTOBER 20 U.S.C.G.S. 44.6N, 149.7E Kurile Islands H = 05 52 29.2 h 40 km MAG 4.0 (CGS) Resolute eP 06 01 47	OCTOBER 20 U.S.C.G.S. 44.4N, 150.0E Kurile Islands H = 06 56 43.5 h 40 km MAG 4.1 (CGS) Resolute eP 07 06 03
OCTOBER 20 U.S.C.G.S. 44.5N, 149.7E Kurile Islands H = 04 58 55.0 h 50 km MAG 4.4 (CGS) Alert eP 05 08 01 Resolute eP 05 08 14 d	OCTOBER 20 U.S.C.G.S. 44.3N, 149.2E Kurile Islands H = 06 02 14.7 h 40 km MAG 4.2 (CGS) Resolute eP 06 11 36	OCTOBER 20 Resolute eP 07 15 27
OCTOBER 20 U.S.C.G.S. 44.9N, 151.4E Kurile Islands H = 05 20 18.0 h 50 km MAG 4.8 (CGS) Mould Bay eP 05 28 (45) Resolute eP 05 29 (31)	OCTOBER 20 U.S.C.G.S. 43.9N, 150.7E Kurile Islands H = 06 10 25.0 h 50 km MAG 5.2 (CGS) Alert eP 06 19 35 Edmonton eP 06 20 24 (c) Resolute eP 06 19 45 Shawinigan Falls eP 06 22 41 Victoria eP 06 20 04 Yellowknife iP 06 19 47 d	OCTOBER 20 U.S.C.G.S. 44.7N, 149.9E Kurile Islands H = 07 20 20.5 h 40 km MAG 4.3 (CGS) Mould Bay eP 07 28 52 Resolute eP 07 29 (38)
OCTOBER 20 U.S.C.G.S. 47.2N, 153.7E Kurile Islands H = 05 40 50.6 h 55 km MAG 4.5 (CGS) Alert eP 05 49 36		OCTOBER 20 U.S.C.G.S. 44.3N, 149.4E Kurile Islands H = 08 26 12.3 h 33 km MAG 4.9 (CGS) Edmonton eP 08 36 16

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Mould Bay eP 08 34 (46)	OCTOBER 20 Resolute eP 10 43 (34)	Mould Bay eP 12 00 50 c
Resolute eP 08 35 34		Ottawa eP 12 04 33
Yellowknife eP 08 35 39	OCTOBER 20 Resolute eP 10 56 45	Resolute eP 12 01 36 c
OCTOBER 20 Resolute eP 09 04 05	OCTOBER 20 U.S.C.G.S. 44.4N, 149.7E	Scarboro eP 12 04 35
OCTOBER 20 U.S.C.G.S. 44.4N, 150.0E	Kurile Islands H = 11 08 57.9 h 40 km MAG 4.3 (CGS)	Yellowknife e 12 01 (40)
Kurile Islands H = 09 10 43.9 h 40 km MAG 5.5 (CGS)	Mould Bay eP 11 17 (31)	OCTOBER 20 U.S.C.G.S. 45.0N, 149.6E
Alert eP 09 19 52	Resolute eP 11 18 18	Kurile Islands H = 12 09 31.1 h 45 km MAG 4.2 (CGS)
Edmonton eP 09 20 44 (c)	OCTOBER 20 U.S.C.G.S. 44.2N, 150.6E	Mould Bay eP 12 18 (00)
Halifax eP 09 23 24 c	Kurile Islands H = 11 35 46.6 h 45 km MAG 4.4 (CGS)	Resolute eP 12 18 46
London eP 09 22 59	Resolute eP 11 45 09	OCTOBER 20 Resolute eP 12 24 54
Mould Bay eP 09 19 17 d	OCTOBER 20 U.S.C.G.S. 44.7N, 150.2E	OCTOBER 20 U.S.C.G.S. 24.1N, 5.1E
Ottawa eP 09 23 01	Kurile Islands H = 11 52 20.7 h 45 km MAG 5.1 (CGS)	Southern Algeria H = 12 59 58.6 h 0 km MAG 5.6 (CGS)
Resolute eP 09 20 03 d	Alert eP 12 01 25	Alert iP 13 10 31 c
Scarboro eP 09 23 01	Edmonton eP 12 02 18 d	Edmonton iP 13 12 44 c
Shawinigan Falls eP 09 23 00	Halifax eP 12 04 58	Halifax eP 13 09 57
Victoria eP 09 20 25	London eP 12 04 34	London eP 13 11 21 c
Yellowknife iP 09 20 07 c		Mould Bay eP 13 11 39
OCTOBER 20 Resolute eP 09 39 01		Resolute eP 13 11 11

DOMINION OBSERVATORIES

Yellowknife iP 13 12 18	OCTOBER 20 U.S.C.G.S. 44.1N, 151.1E	OCTOBER 20 Shawinigan Falls eP 16 37 19
OCTOBER 20 U.S.C.G.S. 45.1N, 150.5E	Kurile Islands H = 15 11 23.5 h 50 km MAG 4.7 (CGS)	OCTOBER 20 U.S.C.G.S. 44.2N, 149.6E
Kurile Islands H = 13 21 14.1 h 45 km MAG 5.2 (CGS)	Mould Bay eP 15 19 (57)	Kurile Islands H = 17 41 27.3 h 45 km MAG 4.8 (CGS)
Alert iP 13 30 16 c	Resolute eP 15 20 41	Alert eP 17 50 36
Edmonton eP 13 31 08	OCTOBER 20 U.S.C.G.S. 43.7N, 150.3E	Edmonton eP 17 51 30 d
Mould Bay eP 13 29 39	Kurile Islands H = 15 29 06.5 h 50 km MAG 4.5 (CGS)	Halifax eP 17 54 (18)
Ottawa eP 13 33 24	Resolute eP 15 38 (30)	Mould Bay iP 17 49 59
Resolute eP 13 30 26 d		Resolute eP 17 50 48
Schefferville eP 13 32 55 (d)		Schefferville eP 17 53 12
OCTOBER 20 U.S.C.G.S. 31.1N, 115.6W	OCTOBER 20 U.S.C.G.S. 47.4N, 149.0E	Shawinigan Falls eP 17 53 53
Baja California H = 13 29 26.6 h 14 km	Kurile Islands H = 15 53 48.1 h 45 km MAG 4.2 (CGS)	Yellowknife iP 17 50 59
Victoria eP 13 33 46	Mould Bay eP 16 02 (03)	
OCTOBER 20 U.S.C.G.S. 44.6N, 150.0E	Resolute eP 16 02 49 d	OCTOBER 20 U.S.C.G.S. 44.2N, 149.6E
Kurile Islands H = 14 02 36.8 h 45 km MAG 4.2 (CGS)	OCTOBER 20 U.S.C.G.S. 44.3N, 149.7E	Kurile Islands H = 17 58 58.7 h 45 km MAG 5.0 (CGS)
Resolute eP 14 11 55	Kurile Islands H = 16 00 15.1 h 45 km MAG 4.4 (CGS)	Alert eP 18 08 07
	Mould Bay eP 16 08 48	Edmonton eP 18 09 00
	Resolute eP 16 09 34	Mould Bay eP 18 07 32
		Ottawa eP 18 11 14
		Resolute eP 18 08 18

SEISMOLOGICAL BULLETIN - 1963

Schefferville eP 18 10 (45) Shawinigan Falls eP 18 11 (16)	OCTOBER 20 U.S.C.G.S. 21.9N, 94.7E Burma H = 21 49 36.0 h 115 km Alert eP 22 01 08 c Mould Bay eP 22 01 33 c Resolute eP 22 01 52	OCTOBER 21 U.S.C.G.S. 44.2N, 151.6E Kurile Islands H = 02 22 12.0 h 33 km MAG 4.4 (CGS) Resolute eP 02 31 (30)
OCTOBER 20 Yellowknife iP 18 09 00	OCTOBER 20 U.S.C.G.S. 44.2N, 149.6E Kurile Islands H = 19 47 14.3 h 45 km MAG 4.3 (CGS) Edmonton eP 19 57 15 Mould Bay eP 19 55 (47) Resolute eP 19 56 34	OCTOBER 21 U.S.C.G.S. 44.0N, 149.7E Kurile Islands H = 03 03 33.6 h 45 km MAG 4.1 (CGS) Edmonton eP 03 13 36 Resolute eP 03 12 56
OCTOBER 20 Resolute eP 20 02 58	OCTOBER 20 U.S.C.G.S. 45.0N, 149.8E Kurile Islands H = 21 08 21.7 h 40 km MAG 4.5 (CGS) Edmonton eP 21 18 (25) Resolute eP 21 17 39	OCTOBER 21 U.S.C.G.S. 44.0N, 149.9E Kurile Islands H = 03 14 54.0 h 33 km MAG 4.4 (CGS) Resolute eP 03 24 14
	OCTOBER 21 Resolute eP 01 31 05	OCTOBER 21 U.S.C.G.S. 44.3N, 149.9E Kurile Islands H = 02 16 38.1 h 65 km MAG 4.1 (CGS) Resolute eP 02 25 56
	OCTOBER 21 Mould Bay eP 02 24 (29)	OCTOBER 21 U.S.C.G.S. 44.7N, 150.3E Kurile Islands H = 09 40 14.6 h 55 km MAG 4.7 (CGS) Alert eP 09 49 19 Mould Bay eP 09 48 44 (c) Resolute eP 09 49 30

DOMINION OBSERVATORIES

<p>OCTOBER 21 U. S. C. G. S. 45.0N, 150.3E Kurile Islands H = 10 07 52.9 h 55 km MAG 4.4 (CGS) Alert eP 10 16 56 Edmonton eP 10 17 48 Mould Bay eP 10 16 20 c Resolute eP 10 17 07</p>	<p>OCTOBER 21 U. S. C. G. S. 38.4N, 73.3E Tadzhik, E. S. R. H = 14 49 14.9 h 84 km MAG 4.8 (CGS) Mould Bay iP 14 59 49 d Yellowknife eP 15 01 12</p>	<p>OCTOBER 21 U. S. C. G. S. 44.1N, 150.3E Kurile Islands H = 17 20 46.0 h 65 km MAG 5.0 (CGS) Edmonton eP 17 30 (44) Mould Bay eP 17 29 (19) Resolute eP 17 30 04 Yellowknife eP 17 30 06</p>
<p>OCTOBER 21 Resolute eP 11 55 30</p>	<p>OCTOBER 21 U. S. C. G. S. 44.6N, 150.5E Kurile Islands H = 15 35 35.4 h 50 km MAG 4.5 (CGS) Mould Bay eP 15 44 04 Resolute eP 15 44 51</p>	<p>OCTOBER 21 Mould Bay eP 18 04 (29)</p>
<p>OCTOBER 21 U. S. C. G. S. 45.2N, 151.6E Kurile Islands H = 13 09 05.4 h 45 km MAG 4.8 (CGS) Alert eP 13 18 06 c Edmonton eP 13 18 56 Mould Bay eP 13 17 28 Resolute eP 13 18 18</p>	<p>OCTOBER 21 U. S. C. G. S. 45.5N, 149.7E Kurile Islands H = 15 38 24.3 h 55 km MAG 5.4 (CGS) Edmonton iP 15 48 19 c Mould Bay eP 15 46 48 Resolute iP 15 47 34 c Schefferville eP 15 50 03 c Shawinigan Falls eP 15 50 34 c Yellowknife iP 15 47 40 c</p>	<p>OCTOBER 21 U. S. C. G. S. 44.2N, 151.0E Kurile Islands H = 20 39 39.3 h 50 km MAG 4.6 (CGS) Mould Bay eP 20 48 (10) Resolute eP 20 49 00</p>
<p>OCTOBER 21 U. S. C. G. S. 44.6N, 149.8E Kurile Islands H = 13 40 39.3 h 33 km MAG 3.9 (CGS) Resolute eP 13 49 59</p>	<p>OCTOBER 21 U. S. C. G. S. 44.0N, 150.3E Kurile Islands H = 23 18 41.3 h 50 km MAG 4.9 (CGS) Alert e(P) 23 27 51</p>	<p>OCTOBER 21 Resolute eP 22 49 22</p>

DOMINION OBSERVATORIES

OCTOBER 22

71.4°N, 73.3°W
Near East Coast of
Baffin Isle. NWT
H = 08 32 04
MAG 4.0
Frobisher
Pn taken as 0' 00"
Sn - Pn 01' 21"
Lg - Sn ca 41"
Resolute
Lg 08 35 52
D = 829 km

OCTOBER 22

Mould Bay
eP 09 20 (20)

OCTOBER 22

U.S.C.G.S.
44.2N, 150.3E
Kurile Islands
H = 10 18 14.5
h 50 km
MAG 4.9 (CGS)
Alert
eP 10 27 24 d
Edmonton
eP 10 28 14
Mould Bay
eP 10 26 (49)
Resolute
eP 10 27 34

OCTOBER 22

U.S.C.G.S.
43.6N, 148.1E
Kurile Islands
H = 10 26 28.5
h 50 km
MAG 4.3 (CGS)
Resolute
eP 10 35 56

OCTOBER 22

U.S.C.G.S.
45.1N, 151.8E
Kurile Islands
H = 12 19 17.5
h 20 km
MAG 4.3 (CGS)
Mould Bay
eP 12 27 (46)

OCTOBER 22

Yellowknife
eP 13 07 57

OCTOBER 22

U.S.C.G.S.
44.5N, 149.8E
Kurile Islands
H = 13 27 05.2
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 13 35 (38)
Resolute
eP 13 36 25

OCTOBER 22

U.S.C.G.S.
43.5N, 150.4E
Kurile Islands
H = 16 00 43.8
h 105 km
MAG 4.0 (CGS)
Resolute
eP 16 10 03

OCTOBER 22

Resolute
eP 18 38 26

OCTOBER 22

U.S.C.G.S.
45.3N, 149.4E
Kurile Islands
H = 19 14 14.0
h 33 km
MAG 4.5 (CGS)
Resolute
eP 19 23 29

OCTOBER 22

U.S.C.G.S.
44.3N, 152.3E
Kurile Islands
H = 19 26 14.0
h 33 km
MAG 4.6 (CGS)
Mould Bay
eP 19 34 45
Resolute
eP 19 35 31

OCTOBER 22

Resolute
eP 19 55 59

OCTOBER 23

U.S.C.G.S.
45.7N, 151.6E
Kurile Islands
H = 00 06 09.0
h 20 km
MAG 5.2 (CGS)
Alert
eP 00 15 10 (c)
Mould Bay
eP 00 14 32 (c)

OCTOBER 23

U.S.C.G.S.
45.6N, 150.1E
Kurile Islands
H 02 38 18.6
h 25
MAG 4.7 (CGS)
Mould Bay
eP 02 46 45

SEISMOLOGICAL BULLETIN - 1963

Resolute eP 02 47 31	OCTOBER 23 U.S.C.G.S. 44.4N, 149.5E Kurile Islands H = 11 18 18.0 h 45 km MAG 4.6 (CGS) Mould Bay eP 11 26 51 Resolute eP 11 27 38	OCTOBER 23 U.S.C.G.S. 44.3N, 150.7E Kurile Islands H = 21 18 14.0 h 40 km MAG 4.3 (CGS) Mould Bay eP 21 26 48 Resolute eP 21 27 34
OCTOBER 23 U.S.C.G.S. 45.0N, 151.2E Kurile Islands H = 05 32 33.9 h 45 km MAG 4.3 (CGS) Resolute eP 05 41 47	OCTOBER 23 Canadian Arctic H = 13 33 43 MAG 2.1 Mould Bay P ₁ 13 34 06 S ₁ 13 34 23.5 D = 143 km	OCTOBER 23 Alert eP 21 38 49 (c)
OCTOBER 23 U.S.C.G.S. 44.3N, 149.4E Kurile Islands H = 08 15 15.4 h 50 km MAG 4.5 (CGS) Mould Bay eP 08 23 49 Resolute eP 08 24 35	OCTOBER 23 U.S.C.G.S. 19.4N, 155.5W Hawaii Isle, Hawaii H = 20 24 05.5 Alert e(P) 20 35 31 Mould Bay eP 20 34 13 Resolute eP 20 34 43 Shawinigan Falls eP 20 35 30 Victoria eP 20 31 35 Yellowknife eP 20 33 12	OCTOBER 23 Mould Bay eP 21 41 04
OCTOBER 23 Mould Bay eP 08 50 (26)	OCTOBER 23 U.S.C.G.S. 44.0N, 151.3E Kurile Islands H = 22 11 13.1 h 20 km MAG 4.7 (CGS) Mould Bay eP 22 19 50 (d) Resolute eP 22 20 36	OCTOBER 23 U.S.C.G.S. 44.0N, 151.3E Kurile Islands H = 22 11 13.1 h 20 km MAG 4.7 (CGS) Mould Bay eP 22 19 50 (d) Resolute eP 22 20 36
OCTOBER 23 U.S.C.G.S. 41.2N, 144.2E East of Honshu, Japan H = 09 47 08.1 h 50 km MAG 5.4 (CGS) Alert iP 09 56 (41) d Mould Bay iP 03 56 13 d Ottawa eP 09 59 46 Resolute eP 09 56 56 d Victoria eP 09 57 24	OCTOBER 23 U.S.C.G.S. 19.4N, 155.5W Hawaii Isle, Hawaii H = 20 24 05.5 Alert e(P) 20 35 31 Mould Bay eP 20 34 13 Resolute eP 20 34 43 Shawinigan Falls eP 20 35 30 Victoria eP 20 31 35 Yellowknife eP 20 33 12	OCTOBER 23 U.S.C.G.S. 44.0N, 151.3E Kurile Islands H = 22 11 13.1 h 20 km MAG 4.7 (CGS) Mould Bay eP 22 19 50 (d) Resolute eP 22 20 36
	OCTOBER 23 U.S.C.G.S. 19.4N, 155.5W Hawaii Isle, Hawaii H = 20 24 05.5 Alert e(P) 20 35 31 Mould Bay eP 20 34 13 Resolute eP 20 34 43 Shawinigan Falls eP 20 35 30 Victoria eP 20 31 35 Yellowknife eP 20 33 12	OCTOBER 24 U.S.C.G.S. 44.5N, 150.3E Kurile Islands H = 01 06 25.9 h 45 km MAG 5.0 (CGS) Alert eP 01 15 32 c Mould Bay eP 01 14 57 Resolute eP 01 15 42

DOMINION OBSERVATORIES

Shawinigan Falls eP 01 18 40	OCTOBER 24 U. S. C. G. S. 4. 9S, 102. 9E	OCTOBER 24 U. S. C. G. S. 44. 0N, 150. 8E
Victoria eP 01 16 10	Off South Coast of Sumatra	Kurile Islands H = 13 45 09. 9
Yellowknife eP 01 15 (44)	H = 07 26 23. 9	h 45 km
	MAG 6. 1 (CGS)	MAG 5. 0 (CGS)
OCTOBER 24	Alert	Resolute
U. S. C. G. S.	e(P) 07 40 (15)	eP 13 54 31
4. 3N, 78. 4W	Halifax	
Near West Coast of Colombia	eP 07 45 47	OCTOBER 24
H = 06 44 18. 5	London	U. S. C. G. S.
h 38 km	eP 07 45 47	44. 8N, 149. 9E
MAG 5. 0 (CGS)	Ottawa	Kurile Islands
Mould Bay	eP 07 45 48	H = 15 24 06. 0
iP 06 55 58	Scarborough	h 55 km
Ottawa	eP 07 45 50	MAG 4. 5 (CGS)
eP 06 51 59 d	i 48 51	Mould Bay
Schefferville	Schefferville	eP 15 32 36
eP 06 53 20	eP 07 45 29	Resolute
Yellowknife	Shawinigan Falls	eP 15 33 22
eP 06 54 47 c	eP 07 45 (45)	
	Yellowknife	OCTOBER 24
OCTOBER 24	iP 07 45 00	U. S. C. G. S.
U. S. C. G. S.		38. 4N, 70. 3E
19. 2N, 121. 3E	OCTOBER 24	Tadzhik S. S. R.
Babuyan Islands,	Resolute	H = 19 03 31. 0
Philippine Islands	eP 07 44 (47)	h 183 km
H = 06 57 24. 3		Mould Bay
h 72 km	OCTOBER 24	eP 19 13 55
MAG 4. 8 (CGS)	U. S. C. G. S.	
Mould Bay	58. 1N, 144. 7W	OCTOBER 24
eP 07 09 16	Gulf of Alaska	U. S. C. G. S.
Resolute	H = 13 01 36. 0	28. 3N, 128. 5E
eP 07 09 45	h 33 km	Ryukyu Islands
Yellowknife	MAG 3. 9 (CGS)	H = 19 19 10. 2
eP 07 10 05	Mould Bay	h 33 km
	eP 13 06 14	MAG 5. 1 (CGS)
		Mould Bay
		eP 19 30 06 c
		Resolute
		eP 19 30 40
		Yellowknife
		eP 19 30 59

SEISMOLOGICAL BULLETIN - 1933

OCTOBER 24 U.S.C.G.S. 44.4N, 149.7E Kurile Islands H = 20 18 12.7 h 40 km MAG 5.0 (CGS) Alert eP 20 27 20 Mould Bay eP 20 26 46 Resolute eP 20 27 31	Schefferville eP 06 12 19 OCOTOBER 25 Resolute eP 08 02 (04) OCTOBER 25 U.S.C.G.S. 43.7N, 150.8E Kurile Islands H = 08 08 12.1 h 45 km MAG 4.4 (CGS) Resolute eP 08 17 (36)	OCTOBER 25 U.S.C.G.S. 44.0N, 151.1E Kurile Islands H = 11 12 57.3 h 45 km MAG 4.6 (CGS) Resolute eP 11 22 (17)
OCTOBER 24 Resolute eP 20 46 (20)	OCTOBER 25 51.4°N, 61.9°W About 80 miles N. of Natashquan, P.Q. H = 08 49 39 MAG 3.3 Schefferville e 08 50 48 S ₁ 08 51 54 D = 478 km Sept-Iles P ₁ 08 50 33 S ₁ 08 51 14 D = 336 km	OCTOBER 25 U.S.C.G.S. 45.1N, 149.3E Kurile Islands H = 11 57 55.3 h 70 km MAG 4.1 (CGS) Resolute eP 12 07 (11)
OCTOBER 25 U.S.C.G.S. 44.7N, 149.5E Kurile Islands H = 01 08 35.5 h 50 km MAG 4.0 (CGS) Mould Bay eP 01 17 06 (d) Resolute eP 01 17 52	OCTOBER 25 U.S.C.G.S. 45.3N, 150.2E Kurile Islands H = 10 17 57.1 h 40 km MAG 5.0 (CGS) Alert eP 10 26 59 d Mould Bay eP 10 26 23 d Resolute eP 10 27 10 Schefferville eP 10 29 39	OCTOBER 25 U.S.C.G.S. 44.5N, 150.2E Kurile Islands H = 12 33 05.8 h 45 km MAG 4.2 (CGS) Mould Bay eP 12 41 37 Resolute eP 12 42 24
OCTOBER 25 Resolute eP 01 47 37	OCTOBER 25 U.S.C.G.S. 45.3N, 150.2E Kurile Islands H = 10 17 57.1 h 40 km MAG 5.0 (CGS) Alert eP 10 26 59 d Mould Bay eP 10 26 23 d Resolute eP 10 27 10 Schefferville eP 10 29 39	OCTOBER 25 Resolute eP 12 54 (21)
OCTOBER 25 U.S.C.G.S. 52.0N, 174.8E Near Islands, Aleutian Islands H = 06 02 06.6 Alert eP 03 09 57 c Mould Bay eP 06 08 49 Resolute eP 06 09 (42)	OCTOBER 25 U.S.C.G.S. 44.3N, 149.7E Kurile Islands H = 16 41 46.0 h 20 km MAG 4.3 (CGS) Mould Bay eP 16 50 23	

DOMINION OBSERVATORIES

Resolute eP 16 51 09	OCTOBER 25 U.S.C.G.S. 36.9N, 95.2E Tsinghai Province, China H = 22 49 42.0 h 33 km MAG 5.1 (CGS) Alert i 22 59 53 Mould Bay eP 23 00 (18)	OCTOBER 26 Mould Bay eP 04 23 45
OCTOBER 25 U.S.C.G.S. 12.3N, 144.5E Mariana Islands H = 19 58 58.3 h 29 km MAG 5.4 (CGS) Alert eP 20 11 29 c Banff eP 20 11 39 Mould Bay eP 20 11 03 Resolute eP 20 11 36 Yellowknife eP 20 11 14	OCTOBER 25 U.S.C.G.S. 13.4N, 144.1E Mariana Islands H = 23 21 42.7 h 57 km MAG 4.7 (CGS) Alert eP 23 34 07 (c)	OCTOBER 26 U.S.C.G.S. 43.7N, 150.5E Kurile Islands H = 05 01 31.5 h 40 km MAG 5.1 (CGS) Resolute eP 05 10 55
OCTOBER 25 71.4N, 73.3W Near East Coast of Baffin Island, NWT H = 20 32 24 MAG 4.4 Frobisher Pn taken as 0' 00" Sn - Pn 1' 21" Lg - Sn 41" D = 820 km Resolute Pn 20 34 10 Sn 20 35 26 Lg 20 36 10 D = 829 km Schefferville Lg 20 40 48 D = 1810 km	OCTOBER 26 U.S.C.G.S. 44.5N, 150.1E Kurile Islands H = 03 55 39.7 h 55 km MAG 5.1 (CGS) Alert eP 04 04 45 Halifax eP 04 08 19 Mould Bay eP 04 04 10 Ottawa eP 04 07 54 Resolute eP 04 04 56 Yellowknife eP 04 05 02	OCTOBER 26 U.S.C.G.S. 44.5N, 149.8E Kurile Islands H = 05 59 44.2 h 60 km MAG 5.1 (CGS) Alert eP 06 08 49 Mould Bay eP 06 08 14 Resolute eP 06 09 01 Schefferville eP 06 11 28 Shawinigan Falls eP 06 11 58 Yellowknife eP 06 09 (09)
		OCTOBER 26 Mould Bay eP 06 30 29
		OCTOBER 26 Resolute eP 06 31 15

SEISMOLOGICAL BULLETIN - 1963

<p>OCTOBER 26 U.S.C.G.S. 44.8N, 149.6E Kurile Islands H = 06 27 53.8 h 55 km MAG 4.5 (CGS) Mould Bay eP 06 36 24</p>	<p>OCTOBER 26 U.S.C.G.S. 44.7N, 149.7E Kurile Islands H = 11 21 47.6 h 55 km MAG 5.4 (CGS) Alert eP 11 30 52 Banff eP 11 31 47 Halifax eP 11 34 27 Mould Bay eP 11 30 18 (c) Resolute eP 11 31 04 Schefferville eP 11 33 32 Victoria eP 11 31 27 Yellowknife eP 11 31 09</p>	<p>OCTOBER 26 U.S.C.G.S. 15.8S, 174.0W Tonga Islands H = 12 33 50.1 h 115 km MAG 5.5 (CGS) Mould Bay eP 12 47 11 d</p>
<p>OCTOBER 26 U.S.C.G.S. 44.7N, 149.6E Kurile Islands H = 06 55 51.0 h 60 km MAG 4.0 (CGS) Resolute eP 07 05 08</p>	<p>OCTOBER 26 U.S.C.G.S. 44.6N, 149.7E Kurile Islands H = 14 44 49.2 h 60 km MAG 4.2 (CGS) Mould Bay eP 14 53 20 Resolute eP 14 54 07</p>	<p>OCTOBER 26 U.S.C.G.S. 44.6N, 149.7E Kurile Islands H = 14 44 49.2 h 60 km MAG 4.2 (CGS) Mould Bay eP 14 53 20 Resolute eP 14 54 07</p>
<p>OCTOBER 26 U.S.C.G.S. 51.2N, 177.5W Andreanof Islands, Aleutian Islands H = 07 24 28.7 h 33 km MAG 4.6 (CGS) Mould Bay eP 07 31 07 (c)</p>	<p>OCTOBER 26 U.S.C.G.S. 44.6N, 149.8E Kurile Islands H = 11 31 53.0 h 55 km MAG 5.1 (CGS) Alert eP 11 40 59 (c) Mould Bay eP 11 40 24 Resolute eP 11 41 10 Yellowknife eP 11 41 (12)</p>	<p>OCTOBER 26 Yellowknife eP 16 04 (03)</p> <p>OCTOBER 26 Mould Bay eP 17 07 14 c</p>
<p>OCTOBER 26 U.S.C.G.S. 44.4N, 149.5E Kurile Islands H = 10 32 37.0 h 55 km MAG 4.3 (CGS) Resolute eP 10 41 56</p>	<p>OCTOBER 26 Mould Bay eP 12 19 55</p>	<p>OCTOBER 26 Yellowknife eP 17 05 (06)</p> <p>OCTOBER 26 U.S.C.G.S. 44.1N, 148.9E Kurile Islands H = 19 05 58.1 h 45 km MAG 4.5 (CGS) Resolute eP 19 15 (19) Schefferville eP 19 17 46 d</p>

DOMINION OBSERVATORIES

OCTOBER 26
Banff
eP 20 23 36

OCTOBER 26
Resolute
eP 22 14 21

OCTOBER 26
U.S.C.G.S.
5.2S, 152.0E
New Britain
H = 22 41 29.8
h 73 km
MAG 5.9 (CGS)
Mould Bay
eP 22 54 44 d
Ottawa
eP 23 00 18

OCTOBER 26
U.S.C.G.S.
43.8N, 151.2E
Kurile Islands
H = 23 58 57.8
h 33 km
MAG 5.0 (CGS)
Mould Bay
eP 24 07 33

OCTOBER 27
Canadian Arctic
H = 00 16 19.8
MAG 2.4
Resolute
P₁ 00 16 45.5
S₁ 00 17 05.0
D = 160 km

OCTOBER 27
Canadian Arctic
H = 00 56 58.9
MAG 2.2
Resolute
P₁ 00 57 37
S₁ 00 58 06
D = 238 km

OCTOBER 27
Mould Bay
eP 07 51 24
Resolute
eP 07 52 10

OCTOBER 27
U.S.C.G.S.
5.6N, 79.4W
Off West Coast of
Colombia
H = 12 02 57.6
h 32 km
MAG 4.0 (CGS)
Ottawa
eP 12 10 30 c

OCTOBER 27
U.S.C.G.S.
44.5N, 149.4E
Kurile Islands
H = 19 53 50.0
h 65 km
MAG 4.0 (CGS)
Resolute
eP 20 03 08

OCTOBER 27
U.S.C.G.S.
44.5N, 150.1E
Kurile Islands
H = 20 05 38.1
h 50 km
MAG 5.2 (CGS)
Alert
eP 20 14 43
Frobisher
iP 20 16 32 c
Ottawa
eP 20 17 51 d
Resolute
eP 20 14 54
Schefferville
eP 20 17 22
Shawinigan Falls
eP 20 17 52

OCTOBER 28
U.S.C.G.S.
13.6S, 76.9W
Central Peru
H = 02 50 30.1
h 38 km
MAG 4.1 (CGS)
Mould Bay
eP 03 03 42
Shawinigan Falls
eP 03 00 36

OCTOBER 28
U.S.C.G.S.
45.4N, 151.3E
Kurile Islands
H = 04 58 42.9
h 45 km
MAG 4.4 (CGS)
Mould Bay
eP 05 07 05
Resolute
eP 05 07 (52)

OCTOBER 28
U.S.C.G.S.
44.6N, 149.6E
Kurile Islands
H = 10 18 10.3
h 50 km
MAG 4.2 (CGS)
Mould Bay
eP 10 26 42 (c)
Resolute
eP 10 27 28

OCTOBER 28
U.S.C.G.S.
52.8N, 159.8E
Off East Coast of
Kamchatka
H = 12 03 19.8
h 33 km
MAG 5.7 (CGS)
Alert
eP 12 11 20 c

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Frobisher eP 12 13 08	OCTOBER 28 U.S.C.G.S. 45.0N, 151.7E	OCTOBER 29 U.S.C.G.S. 44.6N, 151.2E
Halifax iP 12 15 06 d	Kurile Islands H = 18 05 09.7	Kurile Islands H = 02 23 53.6
London iP 12 14 35 d	h 60 km MAG 4.3 (CGS)	h 45 km MAG 4.6 (CGS)
Mould Bay eP 12 10 31 (c)	Mould Bay eP 18 13 (35)	Mould Bay eP 02 32 (25)
Ottawa eP 12 14 34	Resolute eP 18 14 (25)	Resolute eP 02 33 10
Resolute eP 12 11 22		
Schefferville eP 12 14 04 d	OCTOBER 28 U.S.C.G.S. 44.8N, 149.6E	OCTOBER 29 U.S.C.G.S. 40.4N, 124.7W
Yellowknife iP 12 11 22	Kurile Islands H = 20 36 56.0	Near Coast of Humboldt County, California H = 07 01 42.7
OCTOBER 28 U.S.C.G.S. 45.3N, 151.3E	h 45 km MAG 4.7 (CGS)	h 38 km MAG 4.7 (CGS)
Kurile Islands H = 14 13 31.6	Mould Bay eP 20 45 25 c	Alert e(P) 07 10 09
h 45 km MAG 4.1 (CGS)	Resolute eP 20 46 11	Mould Bay eP 07 08 42
Mould Bay eP 14 21 (54)	OCTOBER 28 U.S.C.G.S. 49.9N, 154.7E	Resolute eP 07 08 50
OCTOBER 28 U.S.C.G.S. 45.7N, 150.3E	Kurile Islands H = 21 48 24.1	Schefferville eP 07 09 19 c
Kurile Islands H = 14 36 20.0	h 105 km MAG 4.8 (CGS)	OCTOBER 29 U.S.C.G.S. 45.3N, 150.7E
h 55 km MAG 4.5 (CGS)	Alert eP 21 56 41	Kurile Islands H = 07 09 00.0
Mould Bay eP 14 44 41	Frobisher iP 21 58 31 d	h 55 km MAG 4.5 (CGS)
Resolute eP 14 45 28	Mould Bay eP 21 56 00 d	Resolute eP 07 18 (15)
	Resolute eP 21 56 49	
	Schefferville iP 21 59 25 d	
	Shawinigan Falls eP 21 59 58 d	

DOMINION OBSERVATORIES

OCTOBER 29
U.S.C.G.S.
24.8S, 68.6W
Northern Chile
H = 15 49 10.3
h 67 km
MAG 5.0 (CGS)
Schefferville
eP 16 01 10 d

OCTOBER 29
Alert
i 22 32 46
Mould Bay
eP 22 33 06
Resolute
eP 22 33 (46)

OCTOBER 30
U.S.C.G.S.
44.7N, 150.0E
Kurile Islands
H = 00 35 40.4
h 55 km
MAG 4.3 (CGS)
Resolute
eP 00 44 57

OCTOBER 30
U.S.C.G.S.
4.8S, 77.9W
Northern Peru
H = 01 17 31.1
h 20 km
MAG 5.3 (CGS)
Alert
iP 01 30 19 c
Banff
eP 01 28 08
Mould Bay
iP 01 30 04
Ottawa
eP 01 26 25
Resolute
eP 01 29 39

Schefferville
eP 01 27 39
Victoria
eP 01 28 20 (c)
Yellowknife
eP 01 28 57

OCTOBER 30
U.S.C.G.S.
44.9N, 149.1E
Kurile Islands
H = 09 28 29.9
h 45 km
MAG 4.1 (CGS)
Resolute
eP 09 37 46

OCTOBER 30
U.S.C.G.S.
44.6N, 150.2E
Kurile Islands
H = 10 51 45.9
h 55 km
MAG 4.4 (CGS)
Mould Bay
eP 11 00 (15)
Resolute
eP 11 01 (01)

OCTOBER 30
U.S.C.G.S.
44.8N, 150.2E
Kurile Islands
H = 15 21 07.2
h 45 km
MAG 4.5 (CGS)
Alert
e(P) 15 30 12
Mould Bay
eP 15 29 (37)
Resolute
eP 15 30 23

OCTOBER 30
U.S.C.G.S.
43.5N, 150.5E
Kurile Islands
H = 22 42 27.0
h 33 km
MAG 4.4 (CGS)
Resolute
eP 22 51 (56)

OCTOBER 31
U.S.C.G.S.
21.8S, 175.0E
Tonga Islands
H = 03 17 42.0
h 33 km
MAG 5.2 (CGS)
Victoria
eP 03 30 09
Yellowknife
eP 03 31 10

OCTOBER 31
Mould Bay
eP 10 08 50 c

OCTOBER 31
Mould Bay
eP 15 03 15

OCTOBER 31
U.S.C.G.S.
44.2N, 150.0E
Kurile Islands
H = 17 48 45.6
h 70 km
MAG 4.4 (CGS)
Resolute
eP 17 58 04

DOMINION OBSERVATORIES

NOVEMBER 1

U.S.C.G.S.
44.9N, 148.9E
Kurile Islands
H = 22 41 23.8
h 60 km
MAG 5.5 (CGS)
Alert
eP 22 50 26
Banff
eP 22 51 22
Frobisher
eP 22 52 16 c
Mould Bay
eP 22 49 52
Ottawa
eP 22 53 36
Resolute
eP 22 50 38 c
Schefferville
eP 22 53 07
Yellowknife
eP 22 50 43

NOVEMBER 2

H = 00 30 25
MAG 2.3
Victoria
iP 00 30 33.0
iS 00 30 39.3
D = 52 km

NOVEMBER 2

London
eP 03 18 36

NOVEMBER 2

Resolute
eP 06 32 (14)

NOVEMBER 2

U.S.C.G.S.
44.6N, 151.2E
Kurile Islands
H = 09 17 18.2
h 50 km
MAG 4.6 (CGS)
Alert
eP 09 26 24
Mould Bay
eP 09 25 47
Resolute
eP 09 26 34

NOVEMBER 2

U.S.C.G.S.
51.5N, 179.9W
Andreanof Islands,
Aleutian Islands
H = 10 13 02.3
h 33 km
MAG 4.1 (CGS)
Mould Bay
eP 10 19 46

NOVEMBER 2

U.S.C.G.S.
12.5S, 74.7W
Southern Peru
H = 16 07 13.1
h 105 km
MAG 4.3 (CGS)
Mould Bay
eP 16 20 16

NOVEMBER 2

Mould Bay
eP 16 49 11
Resolute
eP 16 50 (13)

NOVEMBER 2

U.S.C.G.S.
44.0N, 150.5E
Kurile Islands
H = 17 53 27.2
h 50 km
MAG 5.0 (CGS)
Alert
eP 18 02 37 d
Mould Bay
eP 18 02 (01)
Resolute
eP 18 02 47

NOVEMBER 2

Ottawa
eP 19 24 08

NOVEMBER 3

Yellowknife
iP 03 01 31

NOVEMBER 3

U.S.C.G.S.
3.5S, 77.8W
Peru - Ecuador Border
H = 03 10 12.7
Alert
eP 03 22 52 (d)
Frobisher
iP 03 21 05 d
Halifax
iP 03 19 04 (c)
Mould Bay
eP 03 22 36 (c)
Ottawa
eP 03 18 54
Port Hardy
eP 03 21 13.5
Resolute
eP 03 22 13
Scarboro
eP 03 18 41 (c)
Schefferville
eP 03 20 08
Victoria
eP 03 20 53

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NOVEMBER 3 Schefferville e(P) 03 49 39 d	NOVEMBER 3 U.S.C.G.S. 39.2N, 21.1E Near West Coast of Greece H = 14 35 59.4 Mould Bay eP 14 46 (20)	Yellowknife eP 01 27 52
NOVEMBER 3 U.S.C.G.S. 49.5N, 155.6E Southern Tip of Kamchatka H = 04 37 25.2 h 50 km MAG 4.9 (CGS) Alert e(P) 04 45 51 Mould Bay eP 04 45 08 c Resolute eP 04 45 58	NOVEMBER 3 U.S.C.G.S. 45.3N, 150.1E Kurile Islands H = 19 22 53.6 h 45 km MAG 4.7 (CGS) Mould Bay eP 19 31 18 (c) Resolute eP 19 32 05	NOVEMBER 4 Banff eP 01 31 42
NOVEMBER 3 Mould Bay eP 06 10 33	NOVEMBER 3 U.S.C.G.S. 44.3N, 149.2E Kurile Islands H = 22 54 36.6 h 45 km MAG 4.3 (CGS) Mould Bay eP 23 03 12 (c) Resolute eP 23 03 57	NOVEMBER 4 Yellowknife iP 01 35 32
NOVEMBER 3 U.S.C.G.S. 15.6S, 73.3W Southern Peru H = 07 38 10.7 h 112 km MAG 4.8 (CGS) Mould Bay eP 07 51 25 Schefferville eP 07 49 13 c	NOVEMBER 4 U.S.C.G.S. 15.1°S, 167.3E New Hebrides Islands H = 01 14 32.8 h 154 km MAG 5.8 (CGS) Banff eP 01 27 37 Ottawa eP ^l 01 33 04 Schefferville eP ^l 01 33 11	NOVEMBER 4 Yellowknife iP 01 46 45
NOVEMBER 3 U.S.C.G.S. 3.7S, 78.3W Near Coast of Ecuador H = 12 02 28.3 Mould Bay eP 12 14 51		NOVEMBER 4 Yellowknife iP 01 35 32
		NOVEMBER 4 Yellowknife iP 01 46 45
		NOVEMBER 4 U.S.C.G.S. 6.8°S, 129.6E Banda Sea H = 01 17 08.9 h 80 km Alert eP 01 31 05 Banff eP ^l 01 35 33 Halifax iP ^l 01 36 26 (c) London eP ^l 01 36 12 Mould Bay eP 01 30 52 Ottawa eP ^l 01 36 12 Resolute eP 01 31 20 Scarboro i 01 36 24 Shawinigan Falls eP ^l 01 36 (17) Victoria eP 01 31 20 Yellowknife eP 01 31 20

DOMINION OBSERVATORIES

NOVEMBER 4
Schefferville
e(P) 02 58 50

NOVEMBER 4
Schefferville
e(P) 04 05 27

NOVEMBER 4
Schefferville
eP 05 45 13

NOVEMBER 4
U.S.C.G.S.
44.5N, 150.6E
Kurile Islands
H = 06 09 19.8
h 40 km
MAG 4.2 (CGS)
Mould Bay
eP 06 17 51 (d)
Resolute
eP 06 18 37

NOVEMBER 4
U.S.C.G.S.
44.0N, 149.9E
Kurile Islands
H = 08 06 15.1
h 33 km
MAG 4.2 (CGS)
Mould Bay
eP 08 14 (51)
Resolute
eP 08 15 37

NOVEMBER 4
Yellowknife
eP 10 50 (20)

NOVEMBER 4
U.S.C.G.S.
36.3N, 71.3E
Hindu Kush
H = 21 12 11.5
h 148 km
MAG 4.7 (CGS)
Mould Bay
iP 21 22 53 d

NOVEMBER 4
Schefferville
eP 22 39 15

NOVEMBER 5
Port Hardy
eP 03 53 54.0

NOVEMBER 5
Canadian Arctic
H = 04 24 28.6
MAG 1.6
Alert
P₁ 04 24 47
S₁ 04 25 01
D = 115 km

NOVEMBER 5
U.S.C.G.S.
43.5N, 150.9E
Kurile Islands
H = 03 18 42.6
h 40 km
MAG 4.6 (CGS)
Mould Bay
eP 09 27 (24)
Resolute
eP 09 28 06

NOVEMBER 5
Resolute
eP 11 19 38

NOVEMBER 5
Mould Bay
eP 14 13 44 c

Resolute
eP 14 14 01
Yellowknife
eP 14 13 44

NOVEMBER 5
71.4°N, 73.3°W
Near Coast of Baffin Isle.
H = 16 07 17
MAG 4.0
Frobisher
Pn 16 09 02
Sn 16 10 24
Lg 16 11 05
D = 820 km
Resolute
Lg 16 11 05
D = 829 km

NOVEMBER 5
Mould Bay
eP 19 06 (59)

NOVEMBER 5
U.S.C.G.S.
44.6N, 148.8E
Kurile Islands
H = 20 59 26.3
h 33 km
MAG 4.1 (CGS)
Resolute
eP 21 08 46

NOVEMBER 5
U.S.C.G.S.
55.5S, 28.4W
Sandwich Islands Region
H = 23 10 54.0
h 33 km
Mould Bay
eP¹ 23 30 21

NOVEMBER 6
Mould Bay
eP 00 06 (13)
Resolute
eP 00 06 40

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 6	NOVEMBER 6	NOVEMBER 7
Mould Bay	U.S.C.G.S.	U.S.C.G.S.
eP 01 13 26	46.3N, 154.8E	42.7N, 149.3E
	Near West Coast of	Kurile Islands
NOVEMBER 6	Kamchatka	H = 04 46 53.1
U.S.C.G.S.	H = 09 24 49.2	h 30 km
2.6°S, 138.4E	h 33 km	MAG 4.1 (CGS)
Western New Guinea	MAG 5.4 (CGS)	Mould Bay
H = 02 13 16.8	Alert	eP 00 55 34
h 33 km	eP 09 33 (41)	Resolute
MAG 5.7 (CGS)	Banff	eP 00 56 19
Alert	iP 09 34 19	
eP 02 26 59	Coppermine	NOVEMBER 7
Mould Bay	iP 09 33 28 d	Mould Bay
eP 02 26 36	Frobisher	eP 02 14 39 (d)
Ottawa	iP 09 35 27 d	Resolute
eP' 02 32 (23)	London	eP 02 14 (56)
Resolute	eP 09 36 47	
eP 02 27 (10)	Mould Bay	NOVEMBER 7
Scarboro	iP 09 33 00 d	U.S.C.G.S.
eP' 02 34 (16)(d)	Resolute	44.8N, 150.1E
Victoria	eP 09 33 48 d	Kurile Islands
eP 02 26 48	Schefferville	H = 03 24 59.3
Yellowknife	eP 09 36 19 d	h 40 km
e 02 27 (05)	Yellowknife	MAG 4.0 (CGS)
	iP 09 33 47 c	Mould Bay
NOVEMBER 6		eP 03 33 (30)
U.S.C.G.S.	NOVEMBER 6	Resolute
2.2°S, 138.7°E	Resolute	eP 03 34 16
Western New Guinea	eP 13 58 16	
H = 03 00 12.2	NOVEMBER 6	NOVEMBER 7
h 43 km	Resolute	H = 05 02 45
MAG 5.3 (CGS)	eP 15 41 25	MAG 2.5
Mould Bay		Port Hardy
eP 03 13 31	NOVEMBER 6	eP 05 03 13.4
	Resolute	eS 05 03 35.5
NOVEMBER 6	eP 23 20 12	D = 182 km
Schefferville	NOVEMBER 7	NOVEMBER 7
eP 09 23 25	Mould Bay	U.S.C.G.S.
	eP 00 00 (15)	36.5N, 141.7E
	NOVEMBER 7	Off East Coast of Honshu
	Resolute	H = 06 12 22.8
	eP 00 06 40	Mould Bay
		eP 06 22 05
		Resolute
		eP 06 22 46

DOMINION OBSERVATORIES

NOVEMBER 7	Resolute	Coppermine
U.S.C.G.S.	eP 13 07 51	eP 08 17 05 c
44.2N, 149.7E	Yellowknife	Frobisher
Kurile Islands	eP 13 07 41	eP 08 18 59 c
H = 09 03 53.4	i 13 08 40	Mould Bay
h 45 km		eP 08 16 34 c
MAG 4.0 (CGS)	NOVEMBER 7	Resolute
Mould Bay	Coppermine	eP 08 17 21 c
eP 09 12 (33)	eP 13 15 21	
Resolute		NOVEMBER 8
eP 09 13 19		U.S.C.G.S.
		16.5S, 28.5E
NOVEMBER 7		Northern Rhodesia
U.S.C.G.S.	NOVEMBER 7	H = 09 59 24.3
44.2N, 151.1E	Canadian Arctic	h 33 km
Kurile Islands	H = 15 23 02.1	MAG 5.5 (CGS)
H = 09 22 53.3	MAG 1.5	Coppermine
h 50 km	Resolute	eP 10 18 20
MAG 4.4 (CGS)	P ₁ 15 23 10	
Alert	S ₁ 15 23 16	
eP 09 32 02 (c)	D = 49 km	
Mould Bay		
eP 09 31 24	NOVEMBER 7	NOVEMBER 8
Resolute	U.S.C.G.S.	U.S.C.G.S.
eP 09 32 11 c	44.9N, 151.9E	44.0N, 150.4E
	Kurile Islands	Kurile Islands
NOVEMBER 7	H = 20 37 53.6	H = 11 22 28.5
Banff	h 29 km	h 40 km
eP 13 05 12	MAG 4.5 (CGS)	MAG 4.3 (CGS)
	Alert	Resolute
NOVEMBER 7	e(P) 20 46 57	eP 11 31 (52)
U.S.C.G.S.	Coppermine	
14.1N, 146.2E	eP 20 46 49 d	NOVEMBER 8
Mariana Islands Region	Mould Bay	U.S.C.G.S.
H = 12 55 25.6	eP 20 46 22	44.4N, 149.4E
h 48 km		Kurile Islands
MAG 5.0 (CGS)	NOVEMBER 7	H = 14 35 26.0
Alert	Coppermine	h 33 km
eP 13 07 46 c	eP 23 09 26	MAG 4.3 (CGS)
Coppermine		Coppermine
eP 13 07 32	NOVEMBER 8	eP 14 44 34
Frobisher	U.S.C.G.S.	Mould Bay
eP 13 09 51	45.0N, 150.9E	eP 14 44 (01)
Mould Bay	Kurile Islands	Resolute
eP 13 07 17 c	H = 08 08 09.2	eP 14 44 47
	h 40 km	
	MAG 4.8 (CGS)	NOVEMBER 8
	Alert	Resolute
	eP 08 17 11 c	eP 15 09 47

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NOVEMBER 8	Frobisher	NOVEMBER 9
Resolute	iP 01 33 34 d	U. S. C. G. S.
eP 15 38 (15)	Mould Bay	45. 6N, 150. 0E
	eP 01 31 (11)	Kurile Islands
NOVEMBER 8	Resolute	H = 08 35 25. 3
Alert	eP 01 31 55 c	h 45 km
e(P) 16 08 40	Schefferville	MAG 4. 2 (CGS)
Mould Bay	e(P) 01 34 36	Coppermine
eP 16 08 (48)		eP 08 44 20
	NOVEMBER 9	Resolute
NOVEMBER 8	Mould Bay	eP 08 44 35
U. S. C. G. S.	eP 01 37 (17)	
2. 7N, 128. 4E	Coppermine	NOVEMBER 9
Molucca Passage	eP 01 37 28 c	U. S. C. G. S.
H = 16 13 36. 2		45. 3N, 150. 8E
h 216 km	NOVEMBER 9	Kurile Islands
MAG 5. 7 (CGS)	U. S. C. G. S.	H = 08 51 18. 6
Coppermine	56. 8N, 34. 6W	h 33 km
eP 16 26 45 c	South of Iceland	MAG 5. 2 (CGS)
Mould Bay	H = 02 46 44. 5	Alert
eP 16 26 25	h 33 km	eP 09 00 20 (c)
Resolute	MAG 4. 8 (CGS)	Banff
eP 16 26 52 c	Alert	eP 09 01 13
	e(P) 02 52 22	Coppermine
NOVEMBER 8	Banff	eP 09 00 14 c
Resolute	eP 02 54 00	Frobisher
eP 19 00 12	Coppermine	iP 09 02 08 c
	eP 02 53 45	Resolute
NOVEMBER 8	Frobisher	eP 09 00 30
U. S. C. G. S.	eP 02 50 54 d	
3. 7S, 78. 2W	Resolute	NOVEMBER 9
Ecuador	eP 02 52 (40)	U. S. C. G. S.
H = 19 22 54. 7	Schefferville	45. 6N, 150. 9E
h 33 km	eP 02 50 54 d	Kurile Islands
MAG 4. 5 (CGS)		H = 11 13 30. 6
Mould Bay	NOVEMBER 9	h 40 km
eP 19 35 19	Resolute	MAG 4. 4 (CGS)
	eP 06 58 (14)	Coppermine
NOVEMBER 8		eP 11 22 24
Resolute	NOVEMBER 9	Resolute
eP 21 33 (25)	Alert	eP 11 22 40
	i 07 56 39	
NOVEMBER 9		NOVEMBER 9
Coppermine		Coppermine
eP 01 31 39		e(P) 13 04 06

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NOVEMBER 10 Coppermine eP 13 30 13 Resolute eP 13 30 13	NOVEMBER 10 U.S.C.G.S. 44.4N, 149.0E Kurile Islands H = 17 17 42.7 h 40 km MAG 5.5 (CGS) Alert e(P) 17 26 51 Banff eP 17 27 40 Coppermine eP 17 26 46 Frobisher eP 17 28 41 d London eP 17 30 02 Mould Bay eP 17 26 15 Ottawa eP 17 30 02 Resolute eP 17 27 02 Scarboro iP 17 30 04 c Schefferville eP 17 29 31 Victoria eP 17 27 27 Yellowknife eP 17 27 06	NOVEMBER 10 Coppermine eP 19 34 22 NOVEMBER 10 Resolute eP 23 49 42 NOVEMBER 11 U.S.C.G.S. 43.8N, 149.5E Kurile Islands H = 00 10 25.6 h 55 km MAG 4.7 (CGS) Coppermine eP 00 19 30 Frobisher eP 00 21 21 Mould Bay eP 00 19 01 NOVEMBER 11 Schefferville eP 00 37 12 d NOVEMBER 11 U.S.C.G.S. 44.3N, 149.2E Kurile Islands H = 00 37 10.5 h 45 km MAG 4.4 (CGS) Coppermine eP 00 46 15 Resolute eP 00 46 31 NOVEMBER 11 Resolute eP 01 12 (15)
NOVEMBER 10 U.S.C.G.S. 45.1N, 151.9E Kurile Islands H = 14 44 32.0 h 40 km MAG 4.2 (CGS) Coppermine eP 14 53 (25) Mould Bay eP 14 52 56 Resolute eP 14 53 42	NOVEMBER 10 U.S.C.G.S. 47.4N, 147.4E Kurile Islands H = 15 58 35.0 h 40 km MAG 4.2 (CGS) Resolute eP 16 07 38	
NOVEMBER 10 Resolute eP 16 11 07	NOVEMBER 10 U.S.C.G.S. 44.0N, 147.3E Kurile Islands H = 18 08 44.0 h 45 km MAG 4.4 (CGS) Coppermine eP 18 17 56 Resolute eP 18 18 11	

DOMINION OBSERVATORIES

NOVEMBER 11	Coppermine	Frobisher
U. S. C. G. S.	eP 11 42 08 c	eP 20 28 52
44.3N, 149.2E	Mould Bay	Mould Bay
Kurile Islands	eP 11 42 25 c	eP 20 30 19 d
H = 05 06 03.2	Resolute	Ottawa
h 40 km	eP 11 42 46	eP 20 26 (26)
MAG 4.5 (CGS)	Victoria	Resolute
Coppermine	eP 11 40 53	eP 20 30 (02)
eP 05 15 08	NOVEMBER 11	Schefferville
Resolute	Resolute	eP 20 27 48
eP 05 15 24	eP 16 32 12	NOVEMBER 11
NOVEMBER 11	NOVEMBER 11	Mould Bay
Halifax	U. S. C. G. S.	eP 21 49 (37)
eP 07 17 25	9.1S, 71.4W	Resolute
NOVEMBER 11	Western Brazil	eP 21 50 (24)
U. S. C. G. S.	H = 19 54 09.4	NOVEMBER 12
44.6N, 148.9E	h 585 km	U. S. C. G. S.
Kurile Islands	MAG 4.9	44.0N, 149.2E
H = 09 49 43.3	Banff	Kurile Islands
h 55 km	iP 20 04 30	H = 00 31 47.0
MAG 4.7 (CGS)	Frobisher	h 33 km
Coppermine	eP 20 04 39 d	MAG 4.4 (CGS)
eP 09 58 46	Mould Bay	Coppermine
Frobisher	iP 20 06 07 d	eP 00 40 54
iP 10 00 38 (c)	Resolute	Resolute
Mould Bay	eP 20 05 44 d	eP 00 41 10
eP 09 58 15	Schefferville	NOVEMBER 12
Resolute	eP 20 03 45 d	Resolute
eP 09 59 02	Victoria	e(P) 01 02 53
Schefferville	eP 20 04 45	NOVEMBER 12
eP 10 01 28	NOVEMBER 11	U. S. C. G. S.
Yellowknife	U. S. C. G. S.	35.5N, 29.7E
eP 09 59 (07)	4.0N, 82.6W	Near Southwest Coast
NOVEMBER 11	Off West Coast	of Turkey
U. S. C. G. S.	of Colombia	H = 07 06 31.2
16.9S, 174.4W	H = 20 18 39.7	h 69 km
Tonga Islands	h 33 km	MAG 5.0 (CGS)
H = 11 29 06.4	MAG 4.8 (CGS)	Alert
h 185 km	Alert	eP 07 15 59 c
MAG 5.2 (CGS)	i 20 30 43	Banff
Banff	Coppermine	eP 07 19 16
eP 11 41 21 d	eP 20 29 34 c	

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Coppermine eP 07 17 58 c	NOVEMBER 12 U.S.C.G.S. 44.2N, 149.2E	NOVEMBER 12 U.S.C.G.S. 31.7N, 78.5E
Frobisher iP 07 16 47 d	Kurile Islands H = 08 33 15.9	Northern India H = 15 28 43.9
Mould Bay iP 07 17 17 c	h 50 km	h 33 km
Ottawa eP 07 18 07	MAG 4.8 (CGS)	MAG 4.6 (CGS)
Resolute eP 07 17 01	Banff eP 08 43 19	Mould Bay eP 15 40 04
Schefferville eP 07 17 06 c	Coppermine eP 08 42 21 c	NOVEMBER 12 Coppermine eP 19 43 37 c
NOVEMBER 12 Mould Bay eP 07 35 26	Mould Bay eP 08 41 50	Frobisher eP 19 43 15
NOVEMBER 12 U.S.C.G.S. 44.2N, 149.0E	Resolute eP 08 42 36	Mould Bay eP 19 44 33 c
Kurile Islands H = 07 56 53.6	Schefferville eP 08 45 03	Resolute eP 19 44 12
h 45 km	NOVEMBER 12 Coppermine eP 11 31 03	NOVEMBER 12 Mould Bay eP 23 14 07 c
MAG 4.9 (CGS)	NOVEMBER 12 U.S.C.G.S. 44.2N, 149.4E	NOVEMBER 12 Banff eP 23 50 (31)
Coppermine eP 08 06 00	Kurile Islands H = 13 00 00.7	NOVEMBER 13 U.S.C.G.S. 44.5N, 149.2E
Frobisher iP 08 07 51 d	h 50 km	Kurile Islands H = 01 15 38.5
Mould Bay eP 08 05 28	MAG 4.9 (CGS)	h 50 km
Resolute eP 08 06 15	Banff eP 13 10 03	MAG 4.1 (CGS)
Schefferville eP 08 08 42	Coppermine eP 13 09 05 d	Resolute eP 01 24 57
NOVEMBER 12 Frobisher iP 08 29 13 d	Frobisher eP 13 10 57	
	Mould Bay eP 13 08 35	
	Resolute eP 13 09 20	
	NOVEMBER 12 Resolute eP 13 47 21	

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 13
Coppermine
eP 23 14 54
Resolute
eP 23 15 11

NOVEMBER 14
U.S.C.G.S.
22.6N, 142.9E
Mariana Islands Region
H = 03 58 48.9
h 177 km
MAG 4.9 (CGS)
Alert
i 04 10 10
Coppermine
eP 04 10 03
Mould Bay
eP 04 09 42
Resolute
eP 04 10 19
Yellowknife
eP 04 10 17

NOVEMBER 14
U.S.C.G.S.
17.5S, 167.7E
New Hebrides Islands
H = 04 35 48.5
h 33 km
MAG 4.8 (CGS)
Coppermine
eP 04 49 37
Schefferville
eP 04 54 (44)

NOVEMBER 14
U.S.C.G.S.
45.7N, 151.2E
Kurile Islands
H = 05 06 07.5
h 15 km
MAG 4.6 (CGS)
Alert
eP 05 15 10

Coppermine
eP 05 15 03
Frobisher
eP 05 16 58
Mould Bay
eP 05 14 (33)
Resolute
eP 05 15 (20)

NOVEMBER 14
63.4°N, 130.0°W
On the Yukon-Mackenzie
Border
H = 06 26 07
MAG 4.0
Coppermine
Pn 06 27 47
Sn 06 29 03
Lg 06 29 45
D = 775 km
Mould Bay
e 06 28 54
e 06 31 (10)
D = 1515 km

Resolute
e 06 29 43
D = 1835 km
Yellowknife
Pn 06 27 58
Sn 06 29 18
D = 860 km

NOVEMBER 14
Resolute
eP 07 46 09

NOVEMBER 14
U.S.C.G.S.
15.1N, 93.9W
Off Coast of
Chiapas, Mexico
H = 09 05 47.8
h 33 km
MAG 4.9 (CGS)
Alert
eP 09 16 49 c

Coppermine
eP 09 15 14 c
Frobisher
eP 09 14 53
Mould Bay
eP 09 16 11 c
Resolute
eP 09 15 49

NOVEMBER 14
U.S.C.G.S.
52.3N, 179.8W
Andreanof Islands,
Aleutian Islands
H = 13 37 02.0
h 100 km
Mould Bay
eP 13 43 31 c
Resolute
eP 13 44 22

NOVEMBER 14
Ottawa
eP 14 54 (37)

NOVEMBER 14
U.S.C.G.S.
15.0N, 94.2W
Off Coast of Chiapas,
Mexico
H = 17 59 04.9
h 33 km
MAG 4.2 (CGS)
Frobisher
eP 18 08 10
Mould Bay
eP 18 09 28 (c)

NOVEMBER 14
Mould Bay
eP 19 34 33

DOMINION OBSERVATORIES

NOVEMBER 14

U. S. C. G. S.

45. 4N, 151. 4E

Kurile Islands

H = 21 27 25. 6

h 50 km

MAG 4. 4 (CGS)

Mould Bay

eP 21 35 (47)

Resolute

eP 21 36 34

NOVEMBER 15

U. S. C. G. S.

4. 7°S, 76. 8°W

Northern Peru

H = 00 18 52. 4

h 152 km

MAG 4. 3 (CGS)

Mould Bay

eP 00 31 11

NOVEMBER 15

U. S. C. G. S.

44. 4N, 149. 1E

Kurile Islands

H = 00 44 38. 5

h 45 km

MAG 4. 7 (CGS)

Frobisher

eP 00 55 35

Mould Bay

eP 00 53 13

Resolute

eP 00 53 59

NOVEMBER 15

Mould Bay

eP 05 02 36 c

NOVEMBER 15

U. S. C. G. S.

45. 6N, 153. 2E

Kurile Islands

H = 06 34 07. 0

h 33 km

MAG 4. 1 (CGS)

Mould Bay

eP 06 42 25

NOVEMBER 15

U. S. C. G. S.

44. 4N, 149. 2E

Kurile Islands

H = 08 21 23. 0

h 55 km

MAG 4. 3 (CGS)

Resolute

eP 08 30 43

NOVEMBER 15

U. S. C. G. S.

52. 9N, 164. 3W

Unimak Island

Aleutian Islands

H = 15 17 07. 7

h 33 km

MAG 4. 6 (CGS)

Alert

eP 15 24 37

Frobisher

iP 15 25 36 c

Mould Bay

eP 15 23 08

Resolute

eP 15 23 56

NOVEMBER 15

Mould Bay

eP 18 03 06

NOVEMBER 15

U. S. C. G. S.

44. 3N, 149. 0E

Kurile Islands

H = 21 06 34. 0

h 50 km

MAG 6. 0 (CGS)

Alert

eP 21 15 41 c

Banff

eP 21 16 (38)

Coppermine

iP 21 15 38 c

Frobisher

eP 21 17 30 c

Halifax

iP 21 19 18

London

eP 21 18 51

Mould Bay

eP 21 15 07 c

Ottawa

eP 21 18 50

Port Hardy

eP 21 15 57

Resolute

eP 21 15 53 c

Schefferville

eP 21 18 21 (c)

Victoria

eP 21 16 17

Yellowknife

iP 21 15 59 d

NOVEMBER 15

Resolute

eP 21 45 10

NOVEMBER 15

Mould Bay

eP 23 18 59 d

NOVEMBER 16

Resolute

eP 00 01 28

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NOVEMBER 16
Resolute
eP 01 02 54

NOVEMBER 16
U.S.C.G.S.
44.7N, 149.0E
Kurile Islands
H = 01 17 05.6
h 33 km
MAG 4.4 (CGS)
Mould Bay
eP 01 25 39
Resolute
eP 01 26 26 c

NOVEMBER 16
U.S.C.G.S.
44.3N, 149.0E
Kurile Islands
H = 02 30 07.0
h 50 km
MAG 5.0 (CGS)
Alert
e(P) 02 39 (14)
Banff
eP 02 40 (13)
Coppermine
iP 02 39 13 c
Frobisher
eP 02 41 04
Mould Bay
eP 02 38 41 c
Resolute
eP 02 39 27
Victoria
eP 02 40 00
Yellowknife
e 02 39 33

NOVEMBER 16
U.S.C.G.S.
26.7N, 97.2E
Northern Burma
H = 11 07 53.7
h 33 km
MAG 5.1 (CGS)
Coppermine
eP 11 20 15
Frobisher
eP 11 20 47
Mould Bay
eP 11 19 33 c
Resolute
eP 11 19 53
Yellowknife
eP 11 20 (41)

NOVEMBER 16
U.S.C.G.S.
28.1N, 95.1E
Assam, India
H = 11 39 37.8
h 37 km
MAG 4.7 (CGS)
Mould Bay
eP 11 51 10 (d)

NOVEMBER 16
Resolute
eP 13 31 54

NOVEMBER 16
U.S.C.G.S.
2.2S, 80.0W
Ecuador
H = 18 06 55.0
h 59 km
MAG 4.6 (CGS)
Mould Bay
eP 18 19 06 (d)

NOVEMBER 16
U.S.C.G.S.
22.3S, 175.0W
Tonga Islands
H = 22 43 26.4
h 33 km
MAG 5.6 (CGS)
Banff
eP 22 56 24
Port Hardy
iP 22 55 55 c
Victoria
ePP 22 59 54
NOVEMBER 16
Resolute
eP 23 48 51 (c)

NOVEMBER 17
U.S.C.G.S.
7.6N, 37.4W
North Atlantic Ocean
H = 00 48 02.6
h 33 km
MAG 5.9 (CGS)
Alert
eP 00 59 45
Banff
eP 00 59 (51)
Coppermine
eP 01 00 02 d
Frobisher
eP 00 58 11 d
Halifax
iP 00 56 05 d
London
eP 00 57 11
Mould Bay
eP 01 00 15
Ottawa
eP 00 56 56
Port Hardy
eP 01 00 33
Resolute
eP 00 59 39

DOMINION OBSERVATORIES

Scarboro		NOVEMBER 17		Banff
eP	00 57 07	U. S. C. G. S.		eP 14 43 16
Schefferville		45.2N, 150.1E		Coppermine
eP	00 57 16 d	Kurile Islands		eP 14 45 49
Victoria		H = 22 51 14.0		Frobisher
eP	01 00 19	h 20 km		eP 14 46 41
Yellowknife		MAG 4.1 (CGS)		Halifax
eP	00 59 56 c	Resolute		iP 14 46 23
		eP 23 00 29		London
NOVEMBER 17				eP 14 44 30
Mould Bay		NOVEMBER 18		Mould Bay
eP	03 56 52	U. S. C. G. S.		eP 14 46 56
		47.2N, 148.5E		Ottawa
NOVEMBER 17		Sea of Okhotsk		eP 14 45 10 c
H = 06 02 54		H = 01 45 27.6		Port Hardy
MAG 2.0		h 319 km		eP 14 43 35 d
Victoria		MAG 4.7 (CGS)		Resolute
eP	06 03 12.3	Resolute		eP 14 46 54
eS	06 03 26.3	eP 01 54 01		Schefferville
D = 115 km				eP 14 46 18
				Victoria
NOVEMBER 17		NOVEMBER 18		eP 14 43 03
Mould Bay		Schefferville		Yellowknife
eP	06 35 58 d	eP 04 45 49 d		eP 14 45 03
NOVEMBER 17		NOVEMBER 18		NOVEMBER 18
U. S. C. G. S.		Resolute		U. S. C. G. S.
6.3N, 126.2E		eP 04 57 47		29.7N, 113.8W
Mindanao				Gulf of California
H = 07 50 34.4		NOVEMBER 18		H = 16 02 19.9
h 33 km		Resolute		h 14 km
MAG 5.6 (CGS)		eP 10 39 34		MAG 4.7 (CGS)
Mould Bay				Banff
eP	08 03 (27)	NOVEMBER 18		eP 16 07 11
		Mould Bay		
		eP 13 33 45 c		
NOVEMBER 17				NOVEMBER 18
U. S. C. G. S.		NOVEMBER 18		U. S. C. G. S.
44.9N, 149.5E		U. S. C. G. S.		29.7N, 113.8W
Kurile Islands		29.9N, 113.6W		Gulf of California
H = 17 40 59.1		Gulf of Mexico		H = 16 02 19.9
h 50 km		H = 14 38 28.9		h 14 km
MAG 4.3 (CGS)		h 14 km		MAG 4.7 (CGS)
Resolute		MAG 5.7 (CGS)		Mould Bay
eP	17 50 15	Alert		eP 16 10 50
		e(P) 14 47 59		Ottawa
				eP 16 09 02

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Victoria eP 16 06 57	Mould Bay eP 08 10 45	Yellowknife iP 11 10 21 c
NOVEMBER 19 U.S.C.G.S. 31.0N, 113.7W Gulf of California H = 01 11 43.2 h 14 km MAG 4.9 (CGS) Mould Bay eP 01 20 (03) Resolute eP 01 39 55	NOVEMBER 19 U.S.C.G.S. 30.9N, 113.8W Gulf of California H = 08 23 11.6 h 14 km MAG 5.0 (CGS) Banff eP 08 27 46 Mould Bay eP 08 31 32	NOVEMBER 19 Resolute eP 13 37 35 NOVEMBER 19 U.S.C.G.S. 44.4N, 149.1E Kurile Islands H = 14 25 27.0 h 33 km MAG 4.4 (CGS) Resolute eP 14 34 48
NOVEMBER 19 U.S.C.G.S. 44.1N, 150.2E Kurile Islands H = 02 01 16.0 h 50 km MAG 4.5 (CGS) Resolute eP 02 10 36	NOVEMBER 19 Resolute eP 08 30 13 NOVEMBER 19 U.S.C.G.S. 44.4N, 149.2E Kurile Islands H = 11 00 54.3 h 33 km MAG 5.8 (CGS) Alert eP 11 10 03 Banff iP 11 10 59 Coppermine iP 11 10 00 d Frobisher iP 11 11 51 d London eP 11 13 12 Mould Bay eP 11 09 29 d Ottawa eP 11 13 12 (d) Resolute eP 11 10 15 d Schefferville eP 11 12 42 d Victoria eP 11 10 40	NOVEMBER 19 U.S.C.G.S. 53.1N, 159.6E Off East Coast of Kamchatka H = 17 38 39.7 h 40 km MAG 4.9 (CGS) Alert eP 17 46 37 c Coppermine iP 17 46 19 c Frobisher iP 17 48 27 c Mould Bay iP 17 45 49 c Ottawa eP 17 49 54 Resolute eP 17 46 40 c Schefferville eP 17 49 22 c Yellowknife eP 17 46 41
NOVEMBER 19 U.S.C.G.S. 39.7N, 129.5E Off East Coast of Korea H = 04 37 56.8 h 537 km MAG 4.4 (CGS) Mould Bay eP 04 46 50 d Resolute eP 04 47 27		NOVEMBER 19 Resolute eP 18 47 39
NOVEMBER 19 U.S.C.G.S. 59.7N, 140.8W Yakutat Bay, Alaska H = 08 06 33.0 h 33 km MAG 4.2 (CGS) Frobisher eP 08 13 16		

DOMINION OBSERVATORIES

NOVEMBER 19 Port Hardy iP 19 46 33.7 c	NOVEMBER 20 U. S. C. G. S. 53.4N, 130.6W Queen Charlotte Isle H = 01 13 49.0 h 39 km MAG 4.0 (CGS) Mould Bay eP 01 18 (51)	NOVEMBER 20 U. S. C. G. S. 31.5N, 131.6E Kyushu, Japan H = 16 57 13.5 h 33 km MAG 4.5 (CGS) Alert eP 17 07 59 c Mould Bay eP 17 07 46 c Resolute eP 17 08 23 c
NOVEMBER 19 Resolute eP 19 59 56	NOVEMBER 20 Yellowknife eP 01 20 14	NOVEMBER 20 Resolute eP 19 19 16
NOVEMBER 19 Resolute eP 20 45 57	NOVEMBER 20 Resolute eP 04 45 (17)	NOVEMBER 20 Mould Bay eP 20 52 58
NOVEMBER 19 Resolute eP 21 00 51	NOVEMBER 20 Resolute eP 06 31 34	NOVEMBER 20 U. S. C. G. S. 44.1N, 149.1E Kurile Islands H = 22 33 30.3 h 45 km MAG 4.6 Coppermine eP 22 42 37 Frobisher eP 22 44 29 Mould Bay eP 22 42 05 Resolute eP 22 42 52
NOVEMBER 19 Resolute eP 23 28 15	NOVEMBER 20 Resolute eP 06 48 39	NOVEMBER 21 Mould Bay eP 05 41 00
NOVEMBER 20 Port Hardy eP 01 11 31	NOVEMBER 20 Resolute eP 07 28 44	NOVEMBER 21 Mould Bay eP 06 12 (34)
NOVEMBER 20 53.4N, 130.6W Queen Charlotte Islands H = 01 13 49 MAG 4.0 Port Hardy eP 01 14 35.5 D = 366 km Victoria eP 01 15 56.3	NOVEMBER 20 Resolute eP 08 41 31	
NOVEMBER 20 Banff eP 01 18 52	NOVEMBER 20 Resolute eP 12 40 52	
	NOVEMBER 20 Resolute eP 15 18 49	

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NOVEMBER 21 Resolute eP 08 13 37	NOVEMBER 21 U.S.C.G.S. 44.2N, 149.6E Kurile Islands H = 19 58 23.8 h 40 km MAG 4.6 (CGS) Mould Bay eP 20 06 58 Resolute eP 20 07 44	Victoria eP 21 10 21 Yellowknife eP 21 09 58
NOVEMBER 21 U.S.C.G.S. 41.2N, 141.1E Near Coast of Honshu, Japan H = 09 53 38.9 h 57 km MAG 4.2 (CGS) Resolute eP 10 03 32	NOVEMBER 21 Resolute eP 20 11 13	NOVEMBER 21 Mould Bay eP 22 20 33
NOVEMBER 21 Resolute eP 12 52 36	NOVEMBER 21 Resolute eP 20 46 25	NOVEMBER 22 Resolute eP 00 46 (37)
NOVEMBER 21 U.S.C.G.S. 44.9N, 151.9E Kurile Islands H = 13 06 41.6 h 40 km MAG 4.4 (CGS) Alert e(P) 13 15 44 Mould Bay eP 13 15 03	NOVEMBER 21 U.S.C.G.S. 50.3N, 156.4E Southern Kamchatka H = 21 01 35.3 h 80 km MAG 5.3 (CGS) Alert eP 21 09 51 i 21 10 06 Banff eP 21 10 40 Coppermine eP 21 09 37 d Frobisher iP 21 11 40 c i 11 55 Halifax eP 21 13 34 Mould Bay eP 21 09 07 d Resolute eP 21 09 57 Schefferville eP 21 12 34 i 12 50	NOVEMBER 22 Yellowknife e 04 58 21
NOVEMBER 21 U.S.C.G.S. 13.0N, 144.9E Mariana Islands H = 16 22 42.4 h 33 km MAG 4.9 (CGS) Mould Bay eP 16 34 (38)	NOVEMBER 21 U.S.C.G.S. 18.5N, 100.3W Guerrero, Mexico H = 11 14 03.0 h 120 km MAG 4.9 (CGS) Alert eP 11 24 36	NOVEMBER 22 Mould Bay eP 05 06 05
NOVEMBER 21 Resolute eP 20 05 14		NOVEMBER 22 Resolute eP 06 12 17
		NOVEMBER 22 Resolute eP 08 13 (15)
		NOVEMBER 22 Resolute eP 08 51 41
		NOVEMBER 22 Resolute eP 09 31 27
		NOVEMBER 22 U.S.C.G.S. 18.5N, 100.3W Guerrero, Mexico H = 11 14 03.0 h 120 km MAG 4.9 (CGS) Alert eP 11 24 36

DOMINION OBSERVATORIES

Coppermine eP 11 22 49 d	NOVEMBER 22 U.S.C.G.S. 44.5N, 149.2E	NOVEMBER 22 U.S.C.G.S. 37.3N, 30.1E
London eP 11 19 53	Kurile Islands H = 15 22 10.9 h 40 km	Southwestern Turkey H = 20 26 00.2 h 28 km
Mould Bay iP 11 23 49 d	MAG 4.5 (CGS)	MAG 4.4 (CGS)
Ottawa eP 11 20 34	Coppermine eP 15 31 15	Coppermine eP 20 37 22
Resolute eP 11 23 32	Mould Bay eP 15 30 (45)	Mould Bay eP 20 36 39 c
NOVEMBER 22 Resolute eP 13 20 (58)	Resolute eP 15 31 31	Resolute eP 20 36 23
NOVEMBER 22 U.S.C.G.S. 44.4N, 149.0E	NOVEMBER 22 U.S.C.G.S. 17.9°S, 172.8°W	NOVEMBER 22 U.S.C.G.S. 37.5N, 30.0E
Kurile Islands H = 14 45 51.7 h 33 km MAG 5.6 (CGS)	Tonga Islands Region H = 17 03 38.9 h 33 km MAG 5.2 (CGS)	Southwestern Turkey H = 21 41 31.0 h 20 km MAG 5.1 (CGS)
Alert eP 14 55 00 (c)	Banff eP 17 16 12 (c)	Coppermine eP 21 52 53
Banff eP 14 55 56	Coppermine eP 17 17 01	Resolute eP 21 51 53
Coppermine iP 14 54 57 c	NOVEMBER 22 Resolute eP 19 01 33	NOVEMBER 22 Resolute eP 22 19 (55)
Frobisher eP 14 56 49 c	NOVEMBER 22 U.S.C.G.S. 63.4N, 150.0W	NOVEMBER 22 Resolute eP 22 56 (08)
Halifax eP 14 58 34	Central Alaska H = 20 10 40.0 h 156 km	NOVEMBER 23 Resolute eP 00 50 (35)
London eP 14 58 09	MAG 4.1 (CGS)	NOVEMBER 23 Resolute eP 00 53 (17)
Mould Bay eP 14 54 27 (d)	Coppermine eP 20 14 08	NOVEMBER 23 Resolute eP 01 22 39
Ottawa eP 14 58 09 (c)		
Resolute eP 14 55 12 c		
Schefferville eP 14 57 40 c		
Victoria eP 14 55 38		
Yellowknife eP 14 55 17		

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 23

U.S.C.G.S.
 44.3N, 148.9E
 H = 01 49 21.8
 h 45 km
 MAG 4.4 (CGS)
 Coppermine
 eP 01 58 28 d
 Frobisher
 eP 02 00 19
 Mould Bay
 eP 01 57 56
 Resolute
 eP 01 58 42

NOVEMBER 23

U.S.C.G.S.
 30.1N, 114.0W
 Gulf of California
 H = 07 50 46.3
 h 14 km
 MAG 5.1 (CGS)
 Alert
 eP 08 00 26
 Banff
 eP 07 55 34
 Coppermine
 eP 07 58 06
 Halifax
 eP 07 58 40
 London
 eP 07 56 52
 Mould Bay
 eP 07 59 14 (d)
 Ottawa
 eP 07 57 29 c
 Resolute
 eP 07 59 09
 Schefferville
 eP 07 58 (36)
 Victoria
 eP 07 55 18
 Yellowknife
 eP 07 57 18

NOVEMBER 23

U.S.C.G.S.
 29.9N, 114.0W
 Gulf of California
 H = 08 32 31.0
 h 14 km
 MAG 5.3 (CGS)
 Banff
 eP 08 37 21
 Mould Bay
 eP 08 41 00 (d)
 Ottawa
 eP 08 39 (22)
 Resolute
 eP 08 40 57
 Schefferville
 e(P) 08 40 23
 Victoria
 eP 08 37 05

NOVEMBER 23

Resolute
 eP 17 39 49

NOVEMBER 23

U.S.C.G.S.
 45.1N, 151.5E
 H = 19 00 35.6
 h 45 km
 MAG 4.6 (CGS)
 Alert
 iP 19 09 37 c
 Coppermine
 eP 19 09 29
 Frobisher
 eP 19 11 23
 Mould Bay
 eP 19 08 59 c
 Resolute
 eP 19 09 48

NOVEMBER 23

U.S.C.G.S.
 20.2S, 178.1W
 Fiji Islands
 H = 19 30 19.4
 h 515 km
 MAG 4.7 (CGS)
 Victoria
 eP 19 41 55

NOVEMBER 23

Resolute
 eP 22 09 56

NOVEMBER 23

U.S.C.G.S.
 79.9N, 0.9E
 Svalbard Region
 H = 22 33 56.3
 h 33 km
 MAG 4.3 (CGS)
 Alert
 eP 22 36 11
 Frobisher
 eP 22 39 16
 Mould Bay
 eP 22 38 39
 Resolute
 eP 22 38 18

NOVEMBER 24

Resolute
 eP 01 35 (21)

NOVEMBER 24

Mould Bay
 eP 02 07 35
 Resolute
 eP 02 07 (55)

NOVEMBER 24

Resolute
 eP 04 19 (41)

DOMINION OBSERVATORIES

NOVEMBER 24 Resolute eP 04 27 (32)	NOVEMBER 24 U. S. C. G. S. 48. 1N, 148. 0E Kurile Islands H = 11 53 56. 0 h 40 km MAG 4. 4 (CGS) Mould Bay eP 12 02 06 (c) Resolute eP 12 02 52	NOVEMBER 24 U. S. C. G. S. 44. 3N, 149. 3E Kurile Islands H = 17 56 02. 2 h 50 km MAG 4. 6 (CGS) Coppermine eP 18 05 06 c Mould Bay eP 18 04 36 (c) Resolute eP 18 05 21
NOVEMBER 24 Victoria eP 07 49 53	NOVEMBER 24 Mould Bay eP 12 24 24	NOVEMBER 24 U. S. C. G. S. 46. 4N, 150. 0E Kurile Islands H = 18 09 08. 7 h 40 km MAG 4. 9 (CGS) Coppermine eP 18 18 02 Frobisher eP 18 19 55 Mould Bay eP 18 17 31 c Resolute eP 18 18 18 c
NOVEMBER 24 Resolute eP 10 11 48	NOVEMBER 24 Resolute eP 13 31 07	NOVEMBER 24 Resolute eP 18 23 (36)
NOVEMBER 24 U. S. C. G. S. 28. 2N, 140. 1E South of Honshu, Japan H = 11 05 56. 8 h 260 km MAG 5. 2 (CGS) Alert iP 11 16 36 d Banff eP 11 17 19 Coppermine iP 11 16 38 d Frobisher iP 11 18 07 d Mould Bay iP 11 16 12 d Resolute eP 11 16 49 Victoria eP 11 17 02 (d) Yellowknife eP 11 16 54 d	NOVEMBER 24 Scarboro eP 14 11 06	NOVEMBER 24 U. S. C. G. S. 61. 8N, 149. 5W Central Alaska H = 17 48 47. 0 h 36 km MAG 4. 3 (CGS) Coppermine e(P) 17 52 (27) Mould Bay eP 17 52 52
	NOVEMBER 24 Resolute eP 16 04 (02)	NOVEMBER 24 U. S. C. G. S. 45. 6N, 151. 6E Kurile Islands H = 19 23 13. 8 h 33 km MAG 4. 2 (CGS) Alert e(P) 19 32 12
	NOVEMBER 24 U. S. C. G. S. 46. 4N, 150. 0E Kurile Islands H = 18 09 08. 7 h 40 km MAG 4. 9 (CGS) Coppermine eP 18 18 02 Frobisher eP 18 19 55 Mould Bay eP 18 17 31 c Resolute eP 18 18 18 c	NOVEMBER 24 Resolute eP 20 01 27

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 24	Frobisher	NOVEMBER 25
Resolute	eP 06 54 10	U.S.C.G.S.
eP 21 06 28	Mould Bay	44.3N, 149.8E
	eP 06 51 45 c	Kurile Islands
NOVEMBER 24	Resolute	H = 10 11 06.7
U.S.C.G.S.	eP 06 52 34	h 50 km
56.1S, 27.5W		MAG 4.8 (CGS)
Sandwich Islands	NOVEMBER 25	Alert
H = 22 58 16.8	U.S.C.G.S.	eP 10 20 15 d
h 33 km	6.9N, 73.3W	Coppermine
MAG 5.6 (CGS)	Colombia	eP 10 20 10
Mould Bay	H = 06 50 08.8	Frobisher
eP' 23 17 45 c	h 167 km	eP 10 22 03
	MAG 4.2 (CGS)	Mould Bay
NOVEMBER 25	Mould Bay	eP 10 19 40
Resolute	eP 07 01 26	Resolute
eP 01 37 09		eP 10 20 26
NOVEMBER 25	NOVEMBER 25	NOVEMBER 25
Mould Bay	U.S.C.G.S.	U.S.C.G.S.
eP 02 10 42	45.0N, 149.2E	45.4N, 151.7E
NOVEMBER 25	Kurile Islands	Kurile Islands
U.S.C.G.S.	H = 08 54 06.1	H = 11 30 33.0
44.8N, 149.4E	h 33 km	h 50 km
Kurile Islands	MAG 4.6 (CGS)	MAG 4.5 (CGS)
H = 03 49 13.3	Mould Bay	Alert
h 40 km	eP 09 02 (38)	eP 11 39 33 (c)
MAG 4.3 (CGS)	Resolute	Mould Bay
Mould Bay	eP 09 03 23	eP 11 38 (57)
eP 03 57 45 (d)	NOVEMBER 25	NOVEMBER 25
Resolute	U.S.C.G.S.	Banff
eP 03 58 31	44.3N, 149.5E	eP 15 56 49
NOVEMBER 25	Kurile Islands	NOVEMBER 25
Resolute	H = 10 02 23.8	Mould Bay
eP 05 56 26	h 55 km	eP 16 33 (09)
NOVEMBER 25	MAG 4.9 (CGS)	NOVEMBER 25
U.S.C.G.S.	Alert	Resolute
45.4N, 151.4E	eP 10 11 31	eP 23 59 (51)
Kurile Islands	Coppermine	
H = 06 43 23.5	eP 10 11 27	
h 50 km	Frobisher	
MAG 4.8 (CGS)	eP 10 13 19	
Alert	Mould Bay	
eP 06 52 22 c	eP 10 10 56	
	Resolute	
	eP 10 11 42	

DOMINION OBSERVATORIES

NOVEMBER 26

Dominion Observatory
78.5°N, 25.5°W
Northeastern Greenland
H = 01 24 19
MAG 4.4
Alert
Pn 01 26 03
Sn 01 27 25
Lg 01 28 07
D = 810 km
Mould Bay
P 01 28 37
D = 2075 km
Resolute
Pn 01 27 56
Sn 01 30 50
D = 1735 km

NOVEMBER 26

Resolute
eP 01 39 (06)

NOVEMBER 26

Resolute
eP 01 51 (58)

NOVEMBER 26

Schefferville
eP 07 14 17

NOVEMBER 26

Resolute
eP 09 24 (05)

NOVEMBER 26

Resolute
eP 12 16 (11)

NOVEMBER 26

Resolute
eP 16 11 (31)

NOVEMBER 26

71.4°N, 73.3°W
North East Coast of
Baffin Isle, NWT
H = 16 20 13
MAG 4.3
Coppermine
Sn 16 26 10
Lg 16 27 43
D = 1600 km
Frobisher
Pn 16 22 00
Sn 16 23 21
Lg 16 24 04
D = 810 km
Resolute
Pn 16 21 56
Sn 16 23 13
Lg 16 23 59
D = 810 km

NOVEMBER 26

U.S.C.G.S.
16.6S, 175.2E
Fiji Islands Region
H = 22 50 08.9
h 33 km
MAG 5.3 (CGS)
Coppermine
eP 23 03 43 c
Mould Bay
eP 23 03 (53)

NOVEMBER 27

Resolute
eP 00 29 28

NOVEMBER 27

Resolute
eP 01 35 51

NOVEMBER 27

U.S.C.G.S.
16.6S, 72.1W
Southern Peru
H = 02 19 41.9
h 79 km
MAG 4.9 (CGS)
Coppermine
eP 02 32 33 c
Edmonton
eP 02 31 33 c
Frobisher
eP 02 31 45
London
eP 02 29 41
Mould Bay
eP 02 33 06 (d)
Schefferville
eP 02 30 56 c
Yellowknife
eP 02 32 13

NOVEMBER 27

U.S.C.G.S.
42.0N, 76.5E
Kasakh, S.S.R.
H = 07 55 17.0
h 33 km
Coppermine
eP 08 06 27
Mould Bay
eP 08 05 32 d

NOVEMBER 27

U.S.C.G.S.
46.6N, 152.6E
Kurile Islands Region
H = 09 21 58.1
h 45 km
MAG 4.4 (CGS)
Edmonton
eP 09 31 39 c
Frobisher
eP 09 32 36 c
Mould Bay
eP 09 30 09

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 27	Resolute	NOVEMBER 28
Resolute	eP 21 22 18	U.S.C.G.S.
eP 13 47 55		45.3N, 150.0E
NOVEMBER 27	NOVEMBER 27	Kurile Islands
U.S.C.G.S.	Alert	H = 13 05 22.9
3.1N, 126.6E	e(P) 23 38 56	h 33 km
Molucca Passage	NOVEMBER 28	MAG 4.3 (CGS)
H = 13 58 58.4	U.S.C.G.S.	Resolute
h 33 km	44.9N, 148.9E	eP 13 14 37
MAG 4.8 (CGS)	Kurile Islands	NOVEMBER 28
Coppermine	H = 05 11 48.0	U.S.C.G.S.
eP 14 12 31 c	h 45 km	52.2N, 174.2E
Mould Bay	MAG 4.4 (CGS)	Near Islands,
eP 14 12 09 (c)	Resolute	Aleutian Islands
Resolute	eP 05 21 (05)	H = 15 13 11.0
eP 14 12 35 c		h 33 km
NOVEMBER 27	NOVEMBER 28	MAG 5.4 (CGS)
U.S.C.G.S.	U.S.C.G.S.	Alert
45.8N, 151.8E	10.9N, 41.4W	eP 15 21 05 c
Kurile Islands Region	North Atlantic Ocean	Banff
H = 20 18 01.0	H = 08 41 31	eP 15 21 00
h 40 km	h 33 km	Coppermine
MAG 4.4 (CGS)	MAG 4.7 (CGS)	eP 15 20 13
Alert	Alert	Edmonton
eP 20 26 59 c	e(P) 08 52 54	eP 15 21 03
Frobisher	Edmonton	Frobisher
eP 20 28 46	eP 08 52 45 c	eP 15 22 36 c
i 32 10	Mould Bay	London
Mould Bay	eP 08 53 22	eP 15 23 51
eP 20 26 (23)	NOVEMBER 28	Mould Bay
NOVEMBER 27	U.S.C.G.S.	iP 15 10 58 c
U.S.C.G.S.	08.3N, 124.5E	Ottawa
30.8N, 79.1E	Near West Coast of	eP 15 23 (53)
Northern India	Mindanao, Philippine	Resolute
H = 21 10 39.9	Islands	eP 15 20 50 c
h 33 km	H = 11 16 21.0	Victoria
MAG 5.1 (CGS)	h 57 km	eP 15 20 36
Alert	MAG 5.8 (CGS)	Yellowknife
eP 21 21 21 d	Mould Bay	iP 15 20 27 d
Frobisher	eP 11 29 06 c	
eP 21 23 01	NOVEMBER 28	
Mould Bay	Mould Bay	
eP 21 22 05 (c)	eP 11 57 36 c	

DOMINION OBSERVATORIES

NOVEMBER 28 U.S.C.G.S. 43.6N, 150.6E Kurile Islands H = 23 18 19.8 h 33 km MAG 4.4 (CGS) Resolute eP 23 27 44	NOVEMBER 29 U.S.C.G.S. 23.7N, 143.2E Bonin Islands Region H = 14 49 26.6 h 33 km MAG 5.2 (CGS) Alert eP 15 00 56 (d) Coppermine eP 15 00 50 Edmonton eP 15 01 27 Mould Bay eP 15 00 28 d Resolute eP 15 01 06 Yellowknife eP 15 01 03	NOVEMBER 30 U.S.C.G.S. 1.6N, 128.4E Halmahera Region H = 09 47 59 h 61 km MAG 5.5 (CGS) Coppermine eP 10 01 31 Mould Bay eP 10 01 10 d Resolute eP 10 01 37
NOVEMBER 29 Resolute eP 01 11 21 d	NOVEMBER 29 U.S.C.G.S. 15.1S, 73.7W Southern Peru H = 01 58 45.0 h 124 km MAG 4.7 (CGS) Edmonton eP 02 10 20	NOVEMBER 30 U.S.C.G.S. 51.9N, 174.2E Near Islands, Aleutian Islands H = 11 29 46.4 h 33 km MAG 4.2 (CGS) Edmonton eP 11 37 38 c Mould Bay eP 11 36 35 c
NOVEMBER 29 Resolute eP 06 53 04	NOVEMBER 29 U.S.C.G.S. 44.1N, 149.5E Kurile Islands H = 19 46 17.1 h 50 km MAG 4.5 (CGS) Edmonton eP 19 56 20 (c) Frobisher eP 19 57 15 Mould Bay eP 19 54 (51) Resolute eP 19 55 37	NOVEMBER 30 Mould Bay eP 12 07 21 c
NOVEMBER 29 Halifax iP 13 56 11 d	NOVEMBER 30 Resolute eP 12 42 11	NOVEMBER 30 Mould Bay eP 12 55 02 (c)
NOVEMBER 29 U.S.C.G.S. 44.6N, 149.8E Kurile Islands H = 14 09 11.4 h 50 km MAG 4.6 (CGS) Mould Bay eP 14 17 42 (d) Resolute eP 14 18 29 d	NOVEMBER 29 U.S.C.G.S. 49.0N, 148.3E Kurile Islands H = 22 21 49.0 h 33 km MAG 4.1 (CGS) Resolute eP 22 30 40	NOVEMBER 30 Mould Bay eP 13 56 05 d
	NOVEMBER 30 Resolute eP 13 56 51	

SEISMOLOGICAL BULLETIN - 1963

NOVEMBER 30
Coppermine
eP 18 23 23

NOVEMBER 30
U. S. C. G. S.
45.2N, 150.4E
Kurile Islands
H = 18 24 29.0
h 50 km
MAG 4.3 (CGS)
Resolute
eP 18 33 39

NOVEMBER 30
U. S. C. G. S.
6.6N, 94.2E
Nicobar Islands
H = 21 40 20.3
h 33 km
MAG 5.3 (CGS)
Alert
eP 21 53 20
Mould Bay
eP 21 53 41 d
Resolute
eP 21 53 57 c

DECEMBER 1
H = 00 59 23
MAG 1.5
Victoria
eP 00 59 45.0
eS 01 00 01.5
D = 135 km

DECEMBER 1
Resolute
eP 02 29 (15)

DECEMBER 1
Alert
eP 02 51 10
Resolute
eP 02 53 17

DECEMBER 1
U. S. C. G. S.
56.1N, 111.8E
Lake Baikal Region
H = 04 26 12.8
h 33 km
MAG 5.3 (CGS)
Alert
eP 04 33 59 d
Coppermine
eP 04 35 15 c
Edmonton
eP 04 36 49 d
Mould Bay
eP 04 34 16 d
Ottawa
eP 04 38 12
Resolute
eP 04 34 (53)
Schefferville
eP 04 37 18 (d)
Victoria
eP 04 36 57
Yellowknife
eP 04 35 50

DECEMBER 1
U. S. C. G. S.
7.4N, 93.5E
Nicobar Islands
H = 09 34 56.0
h 27 km
Alert
e(P) 09 47 53

DECEMBER 1
U. S. C. G. S.
4.6°S, 154.8°E
Solomon Islands Region
H = 11 52 52.9
h 479 km
MAG 4.6 (CGS)
Mould Bay
eP 12 05 16 c

DECEMBER 1
U. S. C. G. S.
44.5N, 150.7E
Kurile Islands
H = 15 57 12.0
h 40 km
MAG 4.4 (CGS)
Edmonton
eP 16 07 09 d
Mould Bay
eP 16 05 43 (c)
Resolute
eP 16 06 (28)

DECEMBER 1
U. S. C. G. S.
28.9N, 130.0E
Ryukyu Islands
H = 16 15 01.0
h 31 km
MAG 4.8 (CGS)
Coppermine
iP 16 26 24 c
Mould Bay
iP 16 25 51 c
Resolute
eP 16 26 26
Yellowknife
eP 16 26 44 d

DECEMBER 1
71.4°N, 73.3°W
Near East Coast of
Baffin Isle, NWT
H = 16 23 53
MAG 4.7
Frobisher
Pn 16 25 38
Sn 16 27 00
Lg 16 27 42
D = 820 km

DOMINION OBSERVATORIES

DECEMBER 1

U. S. C. G. S.
44.6N, 150.7E
Kurile Islands
H = 17 34 58.0
h 40 km
Mag 4.1 (CGS)
Mould Bay
ep 17 43 29

DECEMBER 1

U. S. C. G. S.
44.9N, 150.3E
Kurile Islands
H = 17 44 33.0
h 40 km
Mag 4.4 (CGS)
Mould Bay
eP 17 53 (03)

DECEMBER 2

U. S. C. G. S.
54.9N, 159.1E
Kamchatka
H = 05 16 42.0
h 110 km
Mag 3.9 (CGS)
Mould Bay
ep 05 23 33 c

DECEMBER 2

54.4°N, 132.9°W
Queen Charlotte Islands
Felt at Tlell
H = 06 52 20
Mag 4.7
Banff
eP 06 55 00
Coppermine
eP 06 56 15 c
Edmonton
eP 06 55 09.1
D = 1330 km
Mould Bay
eP 06 57 (22)

Port Hardy

eP 06 53 31.1
D = 532 km
Victoria
eP 06 54 28
D = 998 km

DECEMBER 2

54.4°N, 132.9°W
Queen Charlotte Islands
Felt at Tlell
H = 06 57 20
Mag 4.5
Port Hardy
eP 06 58 35.6

DECEMBER 2

U. S. C. G. S.
48.1N, 154.7E
Kurile Islands Region
H = 11 45 38.5
h 50 km
Mag 4.5 (CGS)
Alert
iP 11 54 16 c
Coppermine
eP 11 54 03
Edmonton
eP 11 55 (02)
Mould Bay
eP 11 53 34 c
Resolute
eP 11 54 23

DECEMBER 2

U. S. C. G. S.
44.4S, 15.6W
Tristan da Cunha
Islands Region
H = 13 37 25.1
h 33 km
Mag 5.8 (CGS)
Coppermine
eP' 13 56 37 c
Edmonton
eP' 13 56 26 d

DECEMBER 2

U. S. C. G. S.
80.1N, 0.6W
Svalbard Region
H = 20 55 58.8
h 33 km
Mag 5.1 (CGS)
Alert
eP 20 58 05 d
Coppermine
eP 21 01 46
Mould Bay
eP 21 00 36 d
Resolute
eP 21 00 11
Victoria
eP 21 04 33

DECEMBER 2

Banff
e 21 05 46
Frobisher
eP 21 01 15

DECEMBER 2

U. S. C. G. S.
51.5N 174.0W
Andreanof Islands
Aleutian Islands
H = 23 52 38.3
h 55 km
Mag 4.9 (CGS)
Banff
iP 23 59 33
Coppermine
eP 23 59 04
Frobisher
eP 24 01 (38)
Mould Bay
eP 23 59 05 c
Ottawa
eP 24 02 45
Schefferville
eP 24 02 27
Victoria
eP 23 59 03
Yellowknife
eP 23 59 02

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 3	DECEMBER 3	Mould Bay
Mould Bay	U. S. C. G. S.	eP 17 23 47 d
eP 02 45 35 (c)	12.6N, 144.3E	Ottawa
		eP 17 20 03
DECEMBER 3	Mariana Islands	DECEMBER 3
U. S. C. G. S.	H = 07 21 10.0	H = 21 31 01
45.4N, 151.6E	h 45 km	Mag 2.1
Kurile Islands	Mag 4.6 (CGS)	Victoria
H = 03 44 39.2	Alert	eP 21 31 19.4
h 45 km	eP 07 33 38	eS 21 31 33.5
Mag 4.3 (CGS)	Mould Bay	D = 116 km
Alert	eP 07 33 11 (c)	
eP 03 53 39 (c)	Resolute	
Mould Bay	eP 07 33 44	DECEMBER 3
eP 03 53 03		U. S. C. G. S.
Resolute	DECEMBER 3	22.4°S 69.3°W
eP 03 53 (48)	U. S. C. G. S.	Northern Chile
	46.1N, 152.9E	H = 23 03 41.6
DECEMBER 3	Kurile Islands	h 18 km
U. S. C. G. S.	H = 08 39 07.4	Mag 6.1 (CGS)
46.2N, 153.0E	h 45 km	Banff
Kurile Islands	Mag 4.7 (CGS)	eP 23 16 09
H = 05 09 22.0	Alert	Coppermine
h 40 km	e(P) 08 48 01	eP 23 17 09 c
Mag 5.1 (CGS)	Mould Bay	Edmonton
Alert	eP 08 47 22 c	eP 23 16 13 (c)
eP 05 18 16 c	Resolute	Frobisher
Banff	eP 08 48 10	eP 23 16 23
eP 05 19 03	DECEMBER 3	Halifax
Coppermine	Mould Bay	iP 23 14 37
eP 05 18 05	eP 12 49 (40)	London
Frobisher	DECEMBER 3	eP 23 14 28 d
eP 05 20 03	Mould Bay	Mould Bay
Mould Bay	eP 16 09 26 c	eP 23 17 (41)
eP 05 17 37 c	DECEMBER 3	Ottawa
Resolute	U. S. C. G. S.	eP 23 14 41
eP 05 18 24	2.2N, 84.5W	Resolute
Victoria	Off coast of Ecuador	eP 23 17 20
eP 05 18 43	H = 17 12 01.6	Schefferville
Yellowknife	h 56 km	eP 23 15 36 c
eP 05 18 25	Mag 5.2 (CGS)	
	Alert	
	e(P) 17 24 11	
	Coppermine	
	eP 17 23 02	

DOMINION OBSERVATORIES

Victoria		DECEMBER 4	DECEMBER 4
eP 23 16 16		U. S. C. G. S.	U. S. C. G. S.
Yellowknife		31.3N, 55.4E	19.5N, 108.3W
eP 23 16 50 c		Iran	Revilla Gigedo Islands
		H = 02 30 18.1	Region
DECEMBER 4		h 46 km	H = 04 18 46.3
U. S. C. G. S.		Mag	h 33 km
34.0°S, 179.3°W		Mould Bay	Mag 4.8 (CGS)
Kermadec Islands		eP 02 41 40 c	Coppermine
H = 00 44 37.4			eP 04 27 26 c
h 33 km		DECEMBER 4	Edmonton
Mag 4.8 (CGS)		U. S. C. G. S.	eP 04 25 26
Alert		45.9N, 153.2E	Mould Bay
e(P) 01 03 35		Kurile Islands	eP 04 28 29
Resolute		H = 02 43 30.4	
eP 01 03 24		h 50 km	DECEMBER 4
		Mag 4.8 (CGS)	U. S. C. G. S.
DECEMBER 4		Alert	7.1°S, 80.4°W
U. S. C. G. S.		eP 02 52 24	Near Coast of Northern
46.2N, 153.1E		Banff	Peru
Kurile Islands		eP 02 53 11	H = 04 21 22.6
H = 01 27 34.1		Coppermine	h 45 km
h 20 km		eP 02 52 (14)	Mag 4.4 (CGS)
Mag 5.2 (CGS)		Edmonton	Edmonton
Alert		eP 02 53 11	eP 04 32 07
eP 01 36 30 (c)		Frobisher	Mould Bay
Banff		eP 02 54 11	eP 04 34 00 (c)
eP 01 37 17		Mould Bay	Yellowknife
Edmonton		eP 02 51 44 c	eP 04 32 55
eP 01 37 17		Resolute	
Frobisher		eP 02 52 32	DECEMBER 4
eP 01 38 18		Yellowknife	Canadian Arctic
Mould Bay		eP 02 52 33	H = 06 29 56
eP 01 35 (51)			Mag 3.8
Resolute		DECEMBER 4	Coppermine
eP 01 36 38		U. S. C. G. S.	Pn 06 31 41
Victoria		8.3°S, 83.1°W	Sn 06 33 01
eP 01 37 01		Off Coast of Peru	Lg 06 33 47
Yellowknife		H = 03 13 07.1	D = 820 km
eP 01 36 39		h 33 km	
		Mag 4.6 (CGS)	DECEMBER 4
		Edmonton	76°40'N, 119°30'W
		eP 03 23 54 c	Prince Patrick Island
			N. W. T.
			H = 06 49 29
			Mag 4.1

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Coppermine
 (Pn) 06 51 37
 Sn 06 53 09
 (Lg) 06 54 00
 D = 940 km
 Mould Bay
 P₁ 06 49 36
 D = 57 km
 Resolute
 Pn 06 50 01
 Sn 06 52 11
 Lg 06 52 (50)
 D = 710 km

DECEMBER 4
 U.S. C. G. S.
 46.1N, 152.9E

Kurile Islands
 H = 08 24 17.1
 h 33 km
 Mag 5.3 (CGS)

Alert
 eP 08 33 12

Coppermine
 eP 08 33 02

Edmonton
 eP 08 34 00

Frobisher
 eP 08 34 59

Mould Bay
 eP 08 32 33 c

Resolute
 eP 08 33 20

Yellowknife
 eP 08 33 21

DECEMBER 4
 Mould Bay
 eP 14 25 (02)

DECEMBER 4
 U.S. C. G. S.
 46.0N, 153.2E

Kurile Islands
 H = 15 44 52.9
 h 40 km
 Mag 4.9 (CGS)

Alert
 eP 15 53 47 c
 Banff
 eP 15 54 35

Coppermine
 eP 15 53 36
 Edmonton
 eP 15 54 34 (c)

Frobisher
 iP 15 55 34 (c)
 Mould Bay
 eP 15 53 08 c

Resolute
 eP 15 53 55

Yellowknife
 eP 15 53 56 d

DECEMBER 4
 U.S. C. G. S.
 35.5°S, 102.8W

Easter Island Region
 H = 15 59 42.1

h 33 km
 Mag 4.6 (CGS)

Banff
 eP 16 12 28

DECEMBER 4
 U.S. C. G. S.
 43.6°N, 71.6°W
 New Hampshire U.S. A.
 Slight damage at Laconia
 H = 21 32 34.9
 Mag 3.4 (OTT)
 3.7 (CGS)

London
 Lg 21 36 (05)
 D = 790 km

Montreal
 (Pn) 21 33 12.7

P₁ 21 22 14.6
 Sn 21 33 38

S₁ 21 33 44.3
 D = 235 km

Ottawa
 P₁ 21 33 31.5

S₁ 21 34 16.5
 D = 369 km

DECEMBER 5
 Mould Bay
 eP 00 40 48 c

DECEMBER 5
 Canadian Arctic
 H = 03 21 55.5
 Mag 4.0

Coppermine
 Pn 03 23 40.5
 Sn 03 25 04
 Lg 03 24 48
 D = 820 km

DECEMBER 5
 Frobisher
 eP 03 33 (08)

DECEMBER 5
 Canadian Arctic
 H = 05 18 22
 Mag 4.2

Frobisher
 Sn 05 21 29
 Lg 05 22 10
 D = 820 km

DECEMBER 5
 Alert
 e(P) 11 41 32

Coppermine
 eP 11 40 (30)

Edmonton
 eP 11 39 14

Frobisher
 eP 11 39 32

London
 eP 11 36 52

Mould Bay
 eP 11 41 15

Resolute
 eP 11 40 (48)

Schefferville
 eP 11 38 30 d

Victoria
 eP 11 39 30

Yellowknife
 eP 11 40 03

DOMINION OBSERVATORIES

DECEMBER 5
U. S. C. G. S.
12.2N, 143.9E
Mariana Islands Region
H = 13 04 27.4
h 33 km
Mag 4.5 (CGS)
Mould Bay
eP 13 16 34 c
Resolute
eP 13 17 07

DECEMBER 5
Resolute
eP 16 34 (28)

DECEMBER 5
U. S. C. G. S.
60.5N, 147.4W
Kenai Peninsula,
Alaska
H = 16 41 45.0
h 33 km
Mag 3.5 (CGS)
Coppermine
eP 16 45 (30)
Mould Bay
eP 16 45 59 (c)
Resolute
eP 16 46 51

DECEMBER 6
U. S. C. G. S.
5.8°S, 150.3E
New Britain
H = 01 56 42.8
h 61 km
Mag 5.3 (CGS)
Mould Bay
eP 02 10 (09)

DECEMBER 6
U. S. C. G. S.
43.8N, 134.9E
Sikhota Alin, U. S. S. R.
H = 03 16 20.5
h 335 km
Mag

Mould Bay
eP 03 24 54 d
Resolute
eP 03 25 35

DECEMBER 6
U. S. C. G. S.
25.6°S, 68.6W
Northern Chile
H = 04 12 48.7
h 105 km
Mag 4.4 (CGS)
Edmonton
eP 04 25 25

DECEMBER 6
U. S. C. G. S.
44.7N, 150.2E
Kurile Islands Region
H = 05 17 10.0
h 60 km
Mag 4.1 (CGS)
Frobisher
eP 05 28 02
Mould Bay
eP 05 25 39
Resolute
eP 05 26 25

DECEMBER 6
U. S. C. G. S.
46.5N, 152.6E
Kurile Islands
H = 06 51 58.0
h 50 km
Mag 4.4 (CGS)
Edmonton
eP 07 01 38
Mould Bay
eP 07 00 09

DECEMBER 6
U. S. C. G. S.
37.5N, 118.5W
Mono County, California
H = 08 34 23.7
h 15 km
Mag 4.3 (CGS)

Banff
eP 08 37 49
Edmonton
eP 08 38 (13)
Frobisher
eP 08 41 55 (c)
Yellowknife
eP 08 39 (50)

DECEMBER 6
Mould Bay
eP 13 57 01

DECEMBER 6
U. S. C. G. S.
7.1°S, 80.5W
Near Coast of Peru
H = 18 14 32.1
h 33 km
Mag 4.4 (CGS)
Mould Bay
eP 18 27 12 c

DECEMBER 6
Resolute
eP 20 09 (10)

DECEMBER 7
71.4°N, 73.3°W
Near East Coast of
Baffin Island N. W. T.
H = 00 26 33
Mag 4.3
Frobisher
Sn 00 29 40
Lg 00 30 20
D = 820 km
Resolute
Lg 00 30 (20)
D = 829 km

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DECEMBER 7

U.S.C.G.S.
22.1°S, 179.4W
Fiji Islands Region
H = 04 07 52.8
h 546 km
Mag 5.5 (CGS)
Alert
eP' 04 25 30
Banff
eP 04 20 02
Frobisher
eP' 04 25 37
Schefferville
e(P)' 04 25 42
Victoria
eP 04 19 37
Yellowknife
eP 04 20 33

Mould Bay
eP' 04 25 10
Resolute
eP' 04 25 20

DECEMBER 7

Resolute
eP 04 31 37

DECEMBER 7

U.S.C.G.S.
44.9N, 149.0E
Kurile Islands
H = 06 47 47.0
h 33 km
Mag 4.6 (CGS)
Coppermine
eP 06 56 50
Frobisher
iP 06 58 43 c
Mould Bay
eP 06 56 20 c
Resolute
eP 06 57 06

Yellowknife

iP 06 57 11 (d)

DECEMBER 7

U.S.C.G.S.
45.1N, 149.8E
Kurile Islands
H = 06 53 18.1
h 40 km
Mag 4.3 (CGS)
Resolute
eP 07 02 33
Yellowknife
e 07 02 38

DECEMBER 7

U.S.C.G.S.
30.9N, 51.3E
Southern Iran
H = 09 06 41.3
h 64 km
Mag —
Frobisher
eP 09 18 15
Mould Bay
eP 09 18 06
Yellowknife
eP 09 19 (17)

DECEMBER 7

Mould Bay
eP 09 27 46 c

DECEMBER 7

U.S.C.G.S.
45.8N, 153.0E
Kurile Islands Region
H = 11 25 54.1
h 55 km
MAG 4.1 (CGS)
Mould Bay
eP 11 34 08 c

DECEMBER 7

U.S.C.G.S.
12.3N, 143.9E
Mariana Islands Region
H = 15 17 57.3
h 33 km
MAG 5.1 (CGS)
Alert
eP 15 30 29 (d)
Coppermine
iP 15 30 19 d
Mould Bay
iP 15 30 03 d
Resolute
eP 15 30 35 d
Yellowknife
iP 15 30 27 c

DECEMBER 7

U.S.C.G.S.
29.3°S, 178.5W
Kermadec Islands
H = 17 37 25.6
h 209 km
MAG 4.9 (CGS)
Frobisher
eP 17 55 59
Mould Bay
eP 17 55 33
Resolute
eP 17 55 42

DECEMBER 8

Resolute
eP 04 08 51

DECEMBER 8

Yellowknife
e 04 22 (04)

DOMINION OBSERVATORIES

DECEMBER 8

U.S.C.G.S.
46.4N, 153.0E
Kurile Islands
H = 07 53 15.1
h 20 km
MAG 5.2 (CGS)
Alert
eP 08 02 10
Banff
eP 08 02 56
Coppermine
iP 08 02 00 d
Edmonton
eP 08 02 59 c
Frobisher
eP 08 03 57
Mould Bay
eP 08 01 31
Resolute
eP 08 02 18
Yellowknife
iP 08 02 20

DECEMBER 8

U.S.C.G.S.
39.9N, 58.7E
Turkmen S.S.R.
H = 11 08 04.7
h 33 km
MAG 4.5 (CGS)
Banff
eP 11 21 04
Frobisher
eP 11 18 49
Mould Bay
eP 11 18 39 c

DECEMBER 8

Resolute
eP 11 36 29

DECEMBER 8

U.S.C.G.S.
35.5N, 143.3E
Off East Coast of
Honshu, Japan
H = 12 08 49.3
h 33 km
MAG 4.0 (CGS)
Alert
e(P) 12 19 05
Mould Bay
eP 12 18 38 d
Resolute
eP 12 19 19

DECEMBER 8

49°3N, 125°9W
Clayoquot Sound
H = 13 23 55
MAG 2.7
Alberni
eP 13 24 07
D = 74 km
Port Hardy
eP 13 24 25.0
D = 192 km
Victoria
eP 13 24 25.2
D = 193 km

DECEMBER 8

U.S.C.G.S.
36.5N, 70.8E
Hindu Kush
H = 15 18 09.8
h 212 km
Mould Bay
eP 15 28 43

DECEMBER 8

U.S.C.G.S.
45.3N, 151.3E
Kurile Islands
H = 20 31 45.7
h 40 km
MAG 4.4 (CGS)

Edmonton
eP 20 41 37
Frobisher
eP 20 42 33
Mould Bay
eP 20 40 09 (c)
Resolute
eP 20 40 56
Yellowknife
eP 20 40 59

DECEMBER 8

U.S.C.G.S.
45.3N, 151.2E
Kurile Islands
H = 20 39 38.9
h 50 km
MAG 4.3 (CGS)
Alert
eP 20 48 39
Edmonton
eP 20 49 30
Frobisher
eP 20 50 26
Mould Bay
eP 20 48 02 (c)
Resolute
eP 20 48 48

DECEMBER 9

Mould Bay
eP 00 09 01

DECEMBER 9

U.S.C.G.S.
43.6N, 110.2W
Western Wyoming
H = 01 45 19.4
h 45 km
MAG 4.0 (CGS)
Yellowknife
eP 01 49 42

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DECEMBER 9	DECEMBER 9	Resolute
U. S. C. G. S.	U. S. C. G. S.	Pn 09 17 12
45.6N, 151.4E	44.0N, 150.4E	i 09 17 18
Kurile Islands	Kurile Islands	S ₁ 09 17 46
H = 02 24 08.5	H = 08 33 57.6	D = 270 km
h 55 km	h 50 km	Yellowknife
Mag 4.3 (CGS)	Mag 4.7 (CGS)	Sn 09 22 06
Edmonton	Alert	Lg 09 23 24
eP 02 33 57	e(P) 08 43 08	D = 1500 km
Frobisher	Coppermine	DECEMBER 9
eP 02 34 53	eP 08 43 01 c	Edmonton
Mould Bay	Edmonton	eP 09 32 33 c
eP 02 32 28 (c)	eP 08 43 57 d	DECEMBER 9
Resolute	Frobisher	U. S. C. G. S.
eP 02 33 16	eP 08 44 53	21.1°S, 178.0W
Yellowknife	Mould Bay	Fiji Islands Region
eP 02 33 18	eP 08 42 32	H = 10 53 39.4
DECEMBER 9	Resolute	h 435 km
U. S. C. G. S.	eP 08 43 18	Mag 5.0 (CGS)
54.9N, 159.4W	Yellowknife	Banff
Alaska Peninsula	eP 08 43 19	eP 11 05 52
H = 05 38 29.5	DECEMBER 9	Edmonton
h 45 km	Alert	eP 11 06 04
Mag 5.1 (CGS)	e(P) 09 04 14	Victoria
Alert	Yellowknife	eP 11 05 28
eP 05 45 36 (c)	eP 09 05 56	Yellowknife
Coppermine	DECEMBER 9	eP 11 06 23
iP 05 43 45 d	72° 20'N, 91°20'W	DECEMBER 9
Frobisher	Regent Inlet NWT	Frobisher
eP 05 46 29 d	H = 09 16 38.7	eP 11 11 33
Mould Bay	Mag 4.4	Mould Bay
eP 05 44 02 (c)	Coppermine	eP 11 11 07
Ottawa	Pn 09 18 50	Resolute
eP 05 47 29	Sn 09 20 29	eP 11 11 16
Resolute	Lg 09 21 22	DECEMBER 9
eP 05 44 49	D = 1010 km	U. S. C. G. S.
Schefferville	Frobisher	7.6N, 126.8E
eP 05 47 16 c	Pn 09 19 26	Near Coast of Mindanao
Victoria	Sn 09 21 33	H = 11 22 27.3
e 05 43 33	Lg 09 22 45	h 139 km
Yellowknife	D = 1275 km	Mag 4.5 (CGS)
eP 05 43 43 d	Mould Bay	Mould Bay
DECEMBER 9	(Pn) 09 18 36	eP 11 35 05
Edmonton	Sn 09 20 08	
eP 06 24 38	D = 935 km	

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DECEMBER 9	DECEMBER 9	Yellowknife
U. S. C. G. S.	Mould Bay	eP 02 42 21
45.2N, 151.2E	eP 15 49 00	
Kurile Islands	DECEMBER 9	DECEMBER 10
H = 12 22 42.0	U. S. C. G. S.	U. S. C. G. S.
h 50 km	36.1N, 71.2E	6.2°S, 128.1E
Mag 4.7 (CGS)	Hindu Kush	Banda Sea
Alert	H = 18 01 55.0	H = 03 31 21.1
eP 12 31 42 (c)	h 157 km	h 366 km
Coppermine	Mag 5.0 (CGS)	Mag 5.6 (CGS)
eP 12 31 35 c	Mould Bay	Mould Bay
Frobisher	eP 18 12 37 c	eP 03 44 32 d
iP 12 33 29 c		Resolute
Mould Bay	DECEMBER 9	eP 03 45 00
eP 12 31 05 c	U. S. C. G. S.	
Resolute	43.7N, 150.9E	DECEMBER 10
eP 12 31 52	Kurile Islands	Coppermine
Yellowknife	H = 21 08 17.0	eP 03 54 53
eP 12 31 54	h 50 km	Edmonton
	Mag 4.3 (CGS)	eP 03 49 15
DECEMBER 9	Mould Bay	Frobisher
U. S. C. G. S.	eP 21 16 53 (d)	eP 03 49 32 c
45.3N, 151.2E	Resolute	Ottawa
Kurile Islands	eP 21 17 40	eP 03 52 56 c
H = 12 29 01.6	DECEMBER 10	Schefferville
h 45 km	U. S. C. G. S.	eP 03 52 37 c
Mag 4.4 (CGS)	34.8N, 134.7E	Yellowknife
Alert	Honshu, Japan	e 03 49 07
eP 12 38 01	H = 00 56 51.6	DECEMBER 10
Edmonton	h 249 km	U. S. C. G. S.
eP 12 38 53	Mag 4.1 (CGS)	58.1°S, 26.4W
Frobisher	Frobisher	Sandwich Islands
eP 12 39 49	eP 01 08 30	H = 06 30 54.8
Mould Bay	Mould Bay	h 110 km
eP 12 37 24	eP 01 06 35 c	Alert
Yellowknife	Resolute	eP' 06 50 07
eP 12 38 14	eP 01 07 13	
DECEMBER 9		
Canadian Arctic	DECEMBER 10	
H = 15 01 09	U. S. C. G. S.	
Mag 4.4	5.4N, 82.5W	
Frobisher	South of Panama	
Sn 15 04 16	H = 02 32 04.6	
Lg 15 04 57	h 35 km	
D = 820 km	Mag 4.2 (CGS)	

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Edmonton eP' 06 49 (50)	DECEMBER 10 U.S.C.G.S. 7.2N, 125.1E	Edmonton eP 20 12 39
Frobisher eP' 06 49 43 d	Near East Coast of Mindanao, P.I.	Frobisher eP 20 11 42
Mould Bay eP' 06 50 18 d	H = 13 08 08.7 h 33 km	Mould Bay iP 20 14 00 d
Resolute eP' 06 50 02	MAG 4.7 (CGS)	Resolute eP 20 13 (25)
Schefferville eP' 06 49 26	Mould Bay eP 13 21 01	Schefferville e(P) 20 10 30
Yellowknife eP' 06 50 06	DECEMBER 10 U.S.C.G.S. 18.1°S, 68.5°W	DECEMBER 11 U.S.C.G.S. 15.1°S, 173.6W
DECEMBER 10	Western Bolivia	Tonga Islands Region
Alert iP 06 53 36 d	H = 14 49 42.6 h 79 km	H = 00 47 48.3 h 33 km
Banff eP 06 53 00	MAG 5.3 (CGS)	MAG 5.6 (CGS)
Victoria eP 06 52 32	Banff eP 15 01 44	Banff eP 01 00 10
Yellowknife iP 06 53 27	Edmonton eP 15 01 49 d	Edmonton eP 01 00 23 (c)
DECEMBER 10	Victoria eP 15 01 53	Mould Bay eP 01 01 (17)
U.S.C.G.S. 8.7°S, 79.8°W	Yellowknife eP 15 02 27 d	Victoria eP 00 59 42 (c)
Near Coast of Peru	DECEMBER 10 U.S.C.G.S. 36.3N, 137.1E	DECEMBER 11 U.S.C.G.S. 17.8°S, 178.6W
H = 07 26 36.5 h 33 km	Near West Coast of Honshu, Japan	Fiji Islands
MAG 4.5 (CGS)	H = 17 27 02.2 h 247 km	H = 02 31 19.4 h 537 km
Mould Bay eP 07 39 24	MAG 4.1 (CGS)	MAG 4.9 (CGS)
DECEMBER 10	Mould Bay eP 17 36 32 d	Banff iP 02 43 12
U.S.C.G.S. 45.8N, 151.7E	DECEMBER 10 U.S.C.G.S. 17.1N, 60.4W	Coppermine iP 02 43 53 c
Kurile Islands	Leeward Islands Region	Edmonton iP 02 43 23 c
H = 09 28 38.6 h 50 km	H = 20 03 13.0 h 33 km	Mould Bay eP 02 44 08 c
MAG 4.7 (CGS)	MAG 4.5 (CGS)	Victoria iP 02 42 46 c
Alert e(P) 09 37 38	Alert eP 20 13 54	
Edmonton eP 09 38 26		
Yellowknife eP 09 37 47 (c)		

DOMINION OBSERVATORIES

DECEMBER 11 U.S.C.G.S. 45.3N, 150.1E Kurile Islands H = 09 12 15.5 h 43 km MAG 4.5 (CGS) Edmonton eP 09 22 11 d	Coppermine eP 17 15 (02) Edmonton eP 17 15 (39) Frobisher eP 17 17 29 (c) Mould Bay eP 17 14 54 c Resolute eP 17 15 46 i 17 17 50 Schefferville eP 17 18 19 Victoria eP 17 15 07 c	DECEMBER 11 U.S.C.G.S. 51.0N, 179.3W Andreanof Islands, Aleutian Islands H = 17 43 17.4 h 33 km MAG 4.5 (CGS) Frobisher eP 17 52 34 Mould Bay eP 17 50 00 c
DECEMBER 11 U.S.C.G.S. 32.1N, 130.2E Near West Coast of Kyushu, Japan H = 09 22 36.0 h 170 km MAG 4.2 (CGS) Mould Bay eP 09 32 51 c	DECEMBER 11 U.S.C.G.S. 51.1N, 179.4W Andreanof Islands, Aleutian Islands H = 17 12 45.1 h 33 km MAG 4.7 (CGS) Alert e(P) 17 20 43 Frobisher eP 17 22 03 Mould Bay eP 17 19 27	DECEMBER 11 U.S.C.G.S. 51.0N, 179.7W Andreanof Islands, Aleutian Islands H = 18 09 17.2 h 33 km MAG 4.6 (CGS) Frobisher eP 18 18 36 d Mould Bay eP 18 16 01 (d)
DECEMBER 11 Mould Bay iP 12 00 40 d	DECEMBER 11 U.S.C.G.S. 51.3N, 179.5W Andreanof Islands, Aleutian Islands H = 17 25 12.5 h 33 km MAG 4.9 (CGS) Alert iP 17 33 09 c Frobisher eP 17 34 29 c Mould Bay eP 17 31 54 c Resolute eP 17 32 47	DECEMBER 11 U.S.C.G.S. 51.3N, 179.2W Andreanof Islands, Aleutian Islands H = 18 28 48.3 h 33 km MAG 4.7 (CGS) Alert e(P) 18 36 45 Frobisher eP 18 38 05 Mould Bay eP 18 35 29 c
DECEMBER 11 Edmonton eP 12 52 (17)		
DECEMBER 11 Edmonton eP 13 49 (59)		
DECEMBER 11 Mould Bay eP 15 07 (09)		
DECEMBER 11 U.S.C.G.S. 51.2N, 179.3E Andreanof Islands, Aleutian Islands H = 17 08 12.3 h 32 km MAG 5.3 (CGS) Alert eP 17 16 09 c		

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DECEMBER 11	Coppermine	DECEMBER 13
U.S.C.G.S.	iP 21 05 20 d	Coppermine
51.3N, 179.5W	Edmonton	eP 02 07 51
Andreanof Islands	iP 21 04 11 d	DECEMBER 13
Aleutian Islands	Frobisher	Coppermine
H = 19 12 59.6	eP 21 04 12	eP 02 45 02
h 54 km	Mould Bay	DECEMBER 13
MAG 4.7 (CGS)	iP 21 06 02 d	U.S.C.G.S.
Alert	Resolute	25.9N, 126.1E
eP 19 20 54 c	eP 21 05 32 d	Ryukyu Islands
Frobisher	Schefferville	H = 02 47 14.0
iP 19 22 14 d	eP 21 03 09 d	h 109 km
Mould Bay	Victoria	MAG 4.6 (CGS)
eP 19 19 39	eP 21 04 31	Coppermine
Resolute	Yellowknife	eP 02 58 50
eP 19 20 31	eP 21 04 57 c	Mould Bay
DECEMBER 12	DECEMBER 12	eP 02 58 18 (c)
U.S.C.G.S.	U.S.C.G.S.	Resolute
18.7N, 107.0W	46.3N, 150.5E	eP 02 58 51
Off Coast of Jalisco, Mexico	Kurile Islands	DECEMBER 13
H = 00 38 24.6	H = 23 24 36.6	U.S.C.G.S.
h 33 km	h 90 km	2.7°S, 78.4W
MAG 4.5 (CGS)	MAG 5.2 (CGS)	Ecuador
Coppermine	Alert	H = 04 16 13.5
eP 00 47 12 c	eP 23 33 25	h 109 km
Edmonton	Banff	MAG 4.5 (CGS)
eP 00 45 (14)	iP 23 34 21	Mould Bay
Mould Bay	Coppermine	eP 04 28 19 d
eP 00 48 14 d	iP 23 33 20 d	Victoria
DECEMBER 12	Edmonton	eP 04 26 39
Coppermine	iP 23 34 20 d	DECEMBER 13
eP 20 38 32	Frobisher	Coppermine
DECEMBER 12	eP 23 35 14 d	eP 04 45 00
U.S.C.G.S.	Mould Bay	DECEMBER 13
5.7N, 73.1W	iP 23 32 49 d	U.S.C.G.S.
Colombia	Resolute	6.9N, 77.1W
H = 20 54 34.8	eP 23 33 36 d	Northern Colombia
h 140 km	Victoria	H = 05 28 07.3
MAG 4.9 (CGS)	eP 23 34 02 (c)	h 33 km
Alert	Yellowknife	MAG 4.0 (CGS)
eP 21 06 13 d	iP 23 33 40 c	Victoria
Banff	DECEMBER 13	eP 05 37 53
eP 21 04 10	Coppermine	
	eP 01 04 55	

DOMINION OBSERVATORIES

DECEMBER 13
Coppermine
eP 06 11 35

DECEMBER 13
Coppermine
eP 07 46 09

DECEMBER 13
U.S.C.G.S.
56.2N, 159.0E
Alaska Peninsula
H = 12 15 19.9
h 149 km
MAG 4.2 (CGS)
Coppermine
iP 12 20 19 d
Edmonton
eP 12 20 44 d
Frobisher
eP 12 23 04
Mould Bay
eP 12 20 34 d

DECEMBER 13
Coppermine
eP 13 38 11

DECEMBER 13
Mould Bay
eP 13 53 36 d

DECEMBER 13
U.S.C.G.S.
14.5N, 91.9W
Guatemala
H = 19 57 27.4
h 139 km
MAG 4.0 (CGS)
Mould Bay
eP 20 07 43

DECEMBER 13
U.S.C.G.S.
44.3N, 149.1E
H = 22 20 19.4
h 40 km
MAG 4.4 (CGS)
Coppermine
eP 22 29 (25)
Edmonton
eP 22 30 24
Resolute
eP 22 29 39

DECEMBER 14
U.S.C.G.S.
2.3°S, 61.2°W
Northern Brazil
H = 00 05 39.8
h 36 km
MAG 4.8 (CGS)
Alert
eP 00 18 10 (c)
Coppermine
eP 00 17 41 d
Edmonton
eP 00 16 50
Frobisher
eP 00 16 23 d
Mould Bay
eP 00 18 12 d
Resolute
eP 00 17 43
Schefferville
eP 00 15 37 c

DECEMBER 14
U.S.C.G.S.
5.2°S, 151.7E
New Britain Region
H = 01 56 09.7
h 54 km
MAG 4.9 (CGS)
Coppermine
eP 02 09 32 d

DECEMBER 14
U.S.C.G.S.
45.4N, 150.1E
Kurile Islands
H = 03 44 01.1
h 33 km
MAG 4.6 (CGS)
Coppermine
eP 03 52 57
Edmonton
eP 03 53 57 c
Yellowknife
iP 03 53 17

DECEMBER 14
U.S.C.G.S.
44.5N, 151.7E
Kurile Islands
H = 06 49 34.6
h 45 km
MAG 4.5 (CGS)
Mould Bay
eP 06 58 08
Resolute
eP 06 58 (55)

DECEMBER 14
U.S.C.G.S.
62.7N, 149.5W
Central Alaska
H = 07 51 07.9
h 95 km
MAG 5.1 (CGS)
Alert
eP 07 56 52
Banff
eP 07 55 50
Coppermine
iP 07 54 33 c
Edmonton
iP 07 55 45 d
Frobisher
iP 07 57 46 d
Halifax
iP 07 59 52.5 d

SEISMOLOGICAL BULLETIN - 1963

Mould Bay eP 07 54 57 d	DECEMBER 15 U.S.C.G.S. 44.3N, 149.5E	DECEMBER 15 Coppermine eP 06 59 01
Ottawa iP 07 59 05 (d)	Kurile Islands H = 03 20 18.1 h 15 km MAG 4.0 (CGS)	DECEMBER 15 U.S.C.G.S. 28.6°N, 129.9°E
Resolute eP 07 55 56 d	Mould Bay eP 03 28 56	Ryukyu Islands H = 07 02 36.5 h 33 km MAG 4.8 (CGS)
Schefferville eP 07 58 41 (c)	Resolute eP 03 29 42	Edmonton eP 07 14 54 c
Victoria eP 07 55 38	DECEMBER 15 U.S.C.G.S. 52.6N, 169.3W	Frobisher eP 07 15 18
Yellowknife eP 07 54 45 (d)	Fox Islands, Aleutian Islands H = 03 39 49.4 h 26 km MAG 3.9 (CGS)	Mould Bay eP 07 13 28 c
DECEMBER 14 U.S.C.G.S. 5.0N, 82.6W	Mould Bay eP 03 46 00 (c)	Resolute eP 07 14 04 d
South of Panama H = 10 26 47.0 h 33 km MAG 4.5 (CGS)	Yellowknife eP 03 45 58	Yellowknife iP 07 14 20
Edmonton eP 10 36 11 (d)	DECEMBER 15 Canadian Arctic H = 03 50 53 MAG 4.4	DECEMBER 15 U.S.C.G.S. 34.3N, 88.8°E
Yellowknife eP 10 37 05	Frobisher Sn 03 54 00 Lg 03 54 40 D = 820 km	Tibet H = 07 33 20.2 h 33 km MAG 4.8 (CGS)
DECEMBER 14 Mould Bay eP 12 43 29 d	DECEMBER 15 Near East Coast of Baffin Island, NWT H = 05 17 53 MAG 4.5	Coppermine eP 07 45 08
DECEMBER 15 Canadian Arctic H = 01 26 02 MAG 4.5	Frobisher Sn 05 21 00 Lg 05 21 42 D = 820 km	Mould Bay eP 07 44 19
Frobisher Sn 01 29 09 Lg 01 29 50 D = 820 km	DECEMBER 15 71.4°N, 73.3°W	Yellowknife eP 07 45 36
DECEMBER 15 Yellowknife eP 02 53 09	Resolute Lg 05 21 40 D = 829 km	DECEMBER 15 U.S.C.G.S. 44.1N, 149.2E

DOMINION OBSERVATORIES

DECEMBER 15
Coppermine
eP 12 08 13

DECEMBER 15
U.S.C.G.S.
44.3N, 150.3E
Kurile Islands
H = 13 12 15.1
h 45 km
MAG 4.2 (CGS)
Mould Bay
eP 13 20 (46)
Resolute
eP 13 21 32

DECEMBER 15
50°3N, 129°1W
West of Vancouver Isle.
H = 15 44 22
MAG 4.0
Alberni
eP 15 45 09
D = 330 km
Coppermine
eP 15 48 37
Edmonton
eP 15 46 (52)
Mould Bay
eP 15 49 43
Port Hardy
eP 15 44 41.8
D = 122 km
Resolute
eP 15 50 (08)
D = 462 km

DECEMBER 15
U.S.C.G.S.
10.9°S, 164.2°E
Solomon Islands Region
H = 16 54 23.6
h 33 km
MAG 4.2 (CGS)
Coppermine
eP 17 03 37 d

Mould Bay
eP 17 04 35 (d)

DECEMBER 15
Coppermine
eP 19 48 10
Edmonton
eP 19 49 (06)
Frobisher
eP 19 49 (03)
Yellowknife
eP 19 48 30

DECEMBER 15
U.S.C.G.S.
4.8°S, 108.0°E
Java Sea
H = 19 34 45.5
h 650 km
MAG 6.4 (CGS)
Alert
eP 19 47 34 d
Mould Bay
eP 19 47 41
Resolute
eP 19 48 04
Banff
eP' 19 52 27
Coppermine
iP' 19 52 16 d
Edmonton
iP' 19 52 27 d
Frobisher
eP' 19 52 26 d
Halifax
iP' 19 52 55 d
London
eP' 19 53 00 d
Ottawa
eP' 19 52 53
Scarboro
eP' 19 52 58 (d)
Victoria
iP' 19 52 23 c
Yellowknife
iP' 19 52 14

DECEMBER 15
Alert
e(P) 20 03 34
Mould Bay
eP 20 03 28
Yellowknife
iP 20 02 55

DECEMBER 16
U.S.C.G.S.
6.4°S, 105.4E
Sunda Strait
H = 01 51 30.6
h 64 km
MAG 6.0 (CGS)
Alert
e(P) 02 05 27
Banff
eP' 02 10 24
Coppermine
eP' 02 10 01
Edmonton
eP' 02 10 22
Frobisher
eP' 02 10 19
London
eP' 02 11 01
Mould Bay
eP 02 05 40
Ottawa
eP' 02 10 (55)
Resolute
eP' 02 09 59
Schefferville
eP' 02 10 (40)
Victoria
eP' 02 10 20
Yellowknife
iP' 02 10 08

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 16
 U.S.C.G.S.
 6.3°S, 105.5E
 Near West Coast
 of Sumatra
 H = 02 06 38.2
 h 33 km
 Coppermine
 eP 02 25 17 (c)
 Edmonton
 eP 02 25 34

DECEMBER 16
 Coppermine
 eP 05 20 43 d
 Mould Bay
 eP 05 20 53 d

DECEMBER 16
 U.S.C.G.S.
 17.1N, 147.0E
 Mariana Islands Region
 H = 05 17 14.4
 h 48 km
 MAG 4.6 (CGS)
 Mould Bay
 eP 05 28 49 d

DECEMBER 16
 Edmonton
 eP 06 18 45
 Frobisher
 eP 06 20 54 (d)
 Mould Bay
 eP 06 18 21

DECEMBER 16
 U.S.C.G.S.
 12.2N, 88.4W
 Off Coast of El Salvador
 H = 06 23 20.4
 h 34 km
 Banff
 eP 06 31 32
 Coppermine
 eP 06 33 18

Edmonton
 iP 06 31 37 c
 Frobisher
 eP 06 32 36
 Mould Bay
 eP 06 34 05 c
 Yellowknife
 iP 06 32 39 d

DECEMBER 16
 Coppermine
 eP 09 37 42

DECEMBER 16
 U.S.C.G.S.
 45.8N, 142.6E
 Southern Sakhalin
 H = 11 09 30.4
 h 258 km
 Alert
 eP 11 18 09
 Banff
 eP 11 19 28
 Coppermine
 eP 11 18 15
 Edmonton
 eP 11 19 (21)
 Frobisher
 iP 11 20 03 d
 Mould Bay
 eP 11 17 40
 Resolute
 eP 11 18 28
 Victoria
 eP 11 19 12
 Yellowknife
 iP 11 18 42 c

DECEMBER 16
 Coppermine
 eP 12 38 48

DECEMBER 16
 U.S.C.G.S.
 37.1°N, 20.9°E
 Ionian Sea
 H = 13 47 56.4
 h 15 km
 MAG 5.6 (CGS)
 Alert
 eP 13 57 10 c
 Banff
 eP 14 00 29
 Coppermine
 eP 13 59 10
 Edmonton
 eP 14 00 15 c
 Frobisher
 eP 13 57 45 (c)
 London
 eP 13 59 29
 Mould Bay
 eP 13 58 31 c
 Resolute
 eP 13 58 09 c
 Schefferville
 eP 13 57 59 d
 Victoria
 eP 14 00 53
 Yellowknife
 iP 13 59 35 c

DECEMBER 16
 U.S.C.G.S.
 49.1°S, 127.1E
 2000 km South of Australia
 H = 14 18 04.9
 h 33 km
 MAG 5.3 (CGS)
 Alert
 e(P) 14 37 44
 Coppermine
 iP' 14 37 37 c
 Edmonton
 eP' 14 37 34

DOMINION OBSERVATORIES

Mould Bay eP' 14 37 31	DECEMBER 17 U.S.C.G.S. 22.2N, 144.4E	Yellowknife eP 11 10 05
Resolute eP' 14 37 49	Volcano Islands Region H = 04 12 38.5	DECEMBER 17 Mould Bay eP 11 17 22
Yellowknife eP' 14 37 37 c	h 101 km MAG 4.4 (CGS)	
DECEMBER 16 U.S.C.G.S. 6.5°S, 105.3°E	Alert eP 04 24 09	DECEMBER 17 U.S.C.G.S. 45.6N, 151.7E
Sunda Strait H = 16 06 35.2	Coppermine eP 04 24 01	Kurile Islands H = 13 52 31.0
h 46 km MAG 6.0 (CGS)	Mould Bay eP 04 23 41	h 33 km MAG 3.9 (CGS)
Edmonton eP' 16 25 30	Yellowknife eP 04 24 13	Yellowknife eP 14 01 41
DECEMBER 16 U.S.C.G.S. 1.6°S, 78.0°W	DECEMBER 17 Coppermine eP 06 00 15	DECEMBER 17 Coppermine eP 15 04 06
Ecuador H = 16 41 09.5	DECEMBER 17 Coppermine eP 08 10 35	DECEMBER 17 Coppermine eP 16 49 10
h 170 km MAG 4.8 (CGS)	DECEMBER 17 Coppermine eP 08 29 56	DECEMBER 17 Coppermine eP 16 56 18
Coppermine iP 16 52 27 d	DECEMBER 17 Coppermine eP 08 54 53	DECEMBER 17 Coppermine eP 19 51 02
Mould Bay iP 16 53 08 d	DECEMBER 17 Coppermine eP 09 00 14	DECEMBER 17 Coppermine eP 20 50 32
DECEMBER 17 Coppermine eP 02 48 33	DECEMBER 17 U.S.C.G.S. 36.7N, 71.2E	DECEMBER 17 Coppermine eP 22 20 32 c
DECEMBER 17 Canadian Arctic H = 03 17 06	Hindu Kush H = 10 58 12.0	
MAG 4.5	h 203 km MAG 4.2 (CGS)	
Frobisher Sn 03 21 13	Mould Bay iP 11 08 45 d	
Lg 03 21 54		
D = 820 km		

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 17

U. S. C. G. S.
52.9N, 165.4W

Fox Islands,
Aleutian Islands
H = 23 22 11.2
h 33 km
MAG 4.9 (CGS)

Alert
eP 23 29 44

Coppermine
eP 23 28 03

Edmonton
eP 23 28 26 d

Frobisher
iP 23 30 44 (d)

London
eP 23 31 34

Mould Bay
eP 23 28 14 (c)

Resolute
eP 23 29 03 c

Schefferville
iP 23 31 30 c

Yellowknife
iP 23 28 03

DECEMBER 17

Coppermine
eP 23 39 20

DECEMBER 18

Coppermine
eP 00 04 (38)

DECEMBER 18

U. S. C. G. S.
24.8°S, 176.6°W

Tonga Islands
H = 00 30 02.6
h 46 km
MAG 6.5 (CGS)

Alert
eP' 00 48 43

Banff
eP 00 43 08

Coppermine

eP 00 43 57 c

Edmonton
eP 00 43 20 d

Frobisher
iP' 00 48 47

Halifax
iP' 00 48 55 (d)

London
eP' 00 48 32

Mould Bay
eP 00 44 15

Ottawa
eP' 00 48 38

Schefferville
eP' 00 48 51

Victoria
eP 00 42 46

Yellowknife
eP 00 43 42

DECEMBER 18

Alert
e(P) 00 59 07

Frobisher
iP 00 58 58 d

London
eP 00 59 34

Ottawa
eP 00 59 (10)

Yellowknife
iP 01 00 01

Resolute
eP 01 29 38

DECEMBER 18

U. S. C. G. S.
45.5°N, 151.3°E

Kurile Islands
H = 02 50 31.0
h 33 km
MAG 5.2 (CGS)

Alert
eP 02 59 31 c

Coppermine
eP 02 59 23

Edmonton

iP 03 00 22 c

Frobisher
eP 03 01 19 c

Mould Bay
eP 02 58 52

Resolute
eP 02 59 40

Yellowknife
iP 02 59 43 (d)

DECEMBER 18

Edmonton
eP 03 18 52 c

DECEMBER 18

U. S. C. G. S.
41.7N, 82.5E
Sinkiang Province, China
H = 06 40 05.9
h 33 km
MAG 5.2 (CGS)

Alert
eP 06 49 33

Coppermine
iP 06 51 14 c

Edmonton
eP 06 52 36 c

Frobisher
eP 06 51 29

Mould Bay
iP 06 50 20 c

Resolute
eP 06 50 35 c

Yellowknife
iP 06 51 45 d

DECEMBER 18

U. S. C. G. S.
43.7N, 126.9W
Off Coast of Oregon
H = 10 06 51.0
h 33 km

MAG 4.2 (CGS)

Yellowknife
e(P) 10 11 27

DOMINION OBSERVATORIES

DECEMBER 18

U. S. C. G. S.
37.2N, 140.7E
Near Coast of
Honshu, Japan
H = 18 13 15.8
h 59 km
MAG 4.2 (CGS)
Coppermine
eP 18 23 26
Frobisher
eP 18 25 02
Mould Bay
eP 18 22 54 (d)
Resolute
eP 18 23 36

DECEMBER 18

Schefferville
eP 21 59 (32)

DECEMBER 18

Coppermine
eP 23 57 03
Yellowknife
e 23 56 39

DECEMBER 19

Coppermine
eP 00 47 27

DECEMBER 19

Coppermine
eP 04 45 34

DECEMBER 19

Mould Bay
eP 11 26 39

DECEMBER 19

Canadian Arctic
H = 15 14 30
MAG 4.5
Frobisher
Sn 15 17 37
Lg 15 18 20
D = 820 km

DECEMBER 19

U. S. C. G. S.
9.7°S, 79.1W
Near Coast of
Central Peru
H = 17 04 07.8
h 56 km
MAG 5.1 (CGS)
Alert
eP 17 17 13 c
Banff
eP 17 15 03
Coppermine
P 17 16 19 c
Edmonton
iP 17 15 09 c
Frobisher
iP 17 15 36 c
Mould Bay
iP 17 16 58 c
Resolute
eP 17 16 36
Schefferville
eP 17 14 43 c
Victoria
eP 17 15 14 (d)
Yellowknife
iP 17 15 56 d

DECEMBER 19

U. S. C. G. S.
52.0N, 170.8W
Fox Islands,
Aleutian Islands
H = 22 34 59.8
h 33 km
MAG 4.4 (CGS)
Alert
eP 22 42 43 (c)
Coppermine
eP 22 41 15
Edmonton
eP 22 41 43 (c)
Frobisher
eP 22 43 51 c

Mould Bay

iP 22 41 19 c
Resolute
eP 22 42 08
Schefferville
eP 22 44 39
Yellowknife
eP 22 41 18

DECEMBER 19

U. S. C. G. S.
35.2°S, 68.0W
Mendoza Province,
Argentina
H = 20 33 50.1
h 32 km
MAG 5.3 (CGS)
Mould Bay
eP 20 52 (29)

DECEMBER 20

U. S. C. G. S.
8.6°S, 160.4°E
Solomon Islands
H = 00 23 50.2
h 69 km
MAG 5.5 (CGS)
Coppermine
eP 00 37 10 d
Mould Bay
eP 00 37 10
Yellowknife
e 00 37 07

DECEMBER 20

U. S. C. G. S.
45.0N, 147.4E
Kurile Islands
H = 04 09 15.1
h 50 km
MAG 5.1 (CGS)
Coppermine
eP 04 18 18
Edmonton
eP 04 19 21 c

SEISMOLOGICAL BULLETIN - 1963

Resolute eP 04 18 29 Yellowknife iP 04 18 40	Frobisher eP 10 59 07 Mould Bay iP 11 00 32 c Resolute eP 11 00 09 Victoria eP 10 58 42 Yellowknife iP 10 59 25 c	DECEMBER 20 Mould Bay eP 17 28 53
DECEMBER 20 U.S.C.G.S. 7.0°S, 129.3E Banda Sea H = 08 57 17.8 h 103 km MAG 5.5 (CGS) Coppermine eP 09 11 20 Edmonton eP ^b 09 15 42 Frobisher eP ^b 09 16 01 Mould Bay eP 09 11 00	DECEMBER 20 U.S.C.G.S. 44.9N, 111.7W Hebgen Lake, Montana Area H = 13 00 50.7 h 33 km MAG 4.3 (CGS) Banff iP 13 02 32 Coppermine eP 13 05 55 Edmonton eP 13 02 50 (c) Victoria eP 13 02 57 Yellowknife eP 13 04 54	DECEMBER 20 U.S.C.G.S. 51.8°N, 177.7W Andreanof Islands, Aleutian Islands H = 17 29 48.7 h 33 km MAG 4.4 (CGS) Mould Bay eP 17 36 23
DECEMBER 20 Resolute eP 09 15 (33)	DECEMBER 20 U.S.C.G.S. 49.6N, 124.2W Near Jervis Inlet H = 19 11 06 MAG 2.4 Alberni eP 19 11 16.3 D = 63 km Port Hardy eP 19 11 45.7 D = 269 km Victoria eP 19 11 28.5 D = 139 km	DECEMBER 20 Near Jervis Inlet H = 19 11 06 MAG 2.4 Alberni eP 19 11 16.3 D = 63 km Port Hardy eP 19 11 45.7 D = 269 km Victoria eP 19 11 28.5 D = 139 km
DECEMBER 20 Coppermine eP 09 30 24	DECEMBER 20 Coppermine eP 13 12 (42) Frobisher eP 13 13 49	DECEMBER 20 Mould Bay eP 20 21 (08)
DECEMBER 20 U.S.C.G.S. 5.2°S, 80.8°W Near Coast of Northern Peru H = 10 48 04.2 h 55 km MAG 5.2 (CGS) Alert eP 11 00 50 c Banff eP 10 58 33 Coppermine eP 10 59 50 c Edmonton eP 10 58 35 c	DECEMBER 20 U.S.C.G.S. 12.6°S, 66.4°E Indian Ocean H = 16 46 14.4 h 33 km MAG 4.9 (CGS) Coppermine eP' 17 05 (10)	DECEMBER 20 U.S.C.G.S. 31.6N, 141.8E South of Honshu, Japan H = 21 48 46.7 h 33 km MAG 4.2 (CGS) Coppermine eP 21 59 (29)

DOMINION OBSERVATORIES

DECEMBER 20

U.S.C.G.S.
13.2N, 88.0W
Near Coast of El Salvador
H = 22 28 31.2
h 64 km
MAG 4.3 (CGS)
Coppermine
eP 22 38 13

DECEMBER 21

U.S.C.G.S.
33.8N, 51.5E
Iran
H = 04 50 39.7
h 51 km
MAG 4.5 (CGS)
Mould Bay
eP 05 01 (52)

DECEMBER 21

Mould Bay
eP 07 15 20 c
Resolute
eP 07 16 01

DECEMBER 21

U.S.C.G.S.
21.2°S, 175.8°W
Tonga Islands
H = 12 34 22.7
h 90 km
MAG 5.1 (CGS)
Banff
eP 12 47 04
Coppermine
eP 12 47 54
Edmonton
eP 12 47 20 (d)
Mould Bay
eP 12 48 14
Victoria
eP 12 46 43
Yellowknife
eP 12 47 40 c

DECEMBER 21

U.S.C.G.S.
16.1N, 119.7E
Near West Coast of
Luzon, P.I.
H = 13 09 09.6
h 49 km
MAG 5.6 (CGS)
Alert
eP 13 21 24 (c)
Coppermine
eP 13 21 52 c
Edmonton
eP 13 22 40
Frobisher
eP 13 22 (53)
Mould Bay
eP 13 21 23
Resolute
eP 13 21 50 c
Yellowknife
iP 13 22 10 c

DECEMBER 21

U.S.C.G.S.
32.5N, 141.0E
South of Honshu, Japan
H = 16 23 17.9
h 33 km
MAG 4.3 (CGS)
Mould Bay
eP 16 33 30 c

DECEMBER 21

Yellowknife
iP 18 40 38 c

DECEMBER 21

Mould Bay
eP 18 58 (18)
Yellowknife
iP 18 58 02

DECEMBER 22

U.S.C.G.S.
14.3N, 93.0W
Off Coast of
Chiapas, Mexico
H = 01 20 11.0
h 33 km
MAG 4.4 (CGS)
Coppermine
eP 01 29 44
Edmonton
eP 01 27 (59)
Frobisher
eP 01 29 (20)
Mould Bay
eP 01 30 40 c
Resolute
eP 01 30 (18)
Yellowknife
iP 01 29 07

DECEMBER 22

48°5N, 120°1W
Washington, U.S.A.
H = 02 54 08
MAG 3.7
Alberni
eP 02 54 59.2
D = 364 km
Penticton
P 02 54 23
D = 93 km
Victoria
eP 02 54 44.6
D = 244 km

DECEMBER 22

Mould Bay
eP 05 49 06

SEISMOLOGICAL BULLETIN - 1963

DECEMBER 22	Halifax	DECEMBER 23
U.S.C.G.S.	eP 23 21 05 c	U.S.C.G.S.
6.1°S, 146.9E	London	43.8N, 150.5E
North-East New Guinea	eP 23 20 50 c	Kurile Islands
H = 11 57 27.4	Mould Bay	H = 13 42 23.3
h 102 km	iP 23 25 14 c	h 33 km
MAG 5.4 (CGS)	Ottawa	MAG 4.7 (CGS)
Mould Bay	eP 23 21 04 c	Coppermine
eP 12 10 47	Resolute	eP 13 51 28
Yellowknife	eP 23 24 44 c	Frobisher
eP 12 10 59	Schefferville	eP 13 53 (20)
	iP 23 22 21 c	Mould Bay
	Yellowknife	eP 13 51 01
DECEMBER 22	iP 23 24 09 d	Resolute
Coppermine		eP 13 51 47
eP 17 08 (14)	DECEMBER 23	Yellowknife
Mould Bay	U.S.C.G.S.	iP 13 51 47 (c)
eP 17 08 (08)	44.4°N, 114.8°W	
	Central Idaho	DECEMBER 23
DECEMBER 22	H = 00 15 01.4	Yellowknife
U.S.C.G.S.	h 33 km	eP 17 22 58
45.3N, 151.2E	MAG 5.1 (CGS)	
Kurile Islands	Edmonton	DECEMBER 23
H = 20 10 30.0	eP 00 17 (13)	U.S.C.G.S.
h 45 km		44.1N, 149.4E
MAG 4.1 (CGS)	DECEMBER 23	Kurile Islands
Coppermine	Edmonton	H = 18 39 46.6
eP 20 19 24	eP 03 20 (40)	h 65 km
		MAG 4.8 (CGS)
DECEMBER 22	DECEMBER 23	Coppermine
U.S.C.G.S.	Mould Bay	eP 18 48 (50)
6.9°N, 73.0W	eP 05 06 28 (c)	Edmonton
Colombia		eP 18 49 47 (c)
H = 23 13 55.2	DECEMBER 23	Frobisher
h 153 km	Mould Bay	eP 18 50 41 c
MAG 5.2 (CGS)	eP 06 02 (30)	Mould Bay
Alert		eP 18 48 19
iP 23 25 25 c	DECEMBER 23	Resolute
Banff	Yellowknife	eP 18 49 05
eP 23 23 22	eP 09 09 28	Yellowknife
Coppermine		iP 18 49 09 c
iP 23 24 32 c		
Edmonton		
iP 23 23 23 c		
Frobisher		
iP 23 23 24 c		

DOMINION OBSERVATORIES

DECEMBER 23	DECEMBER 24	Edmonton
U.S.C.G.S.	U.S.C.G.S.	eP 03 10 47 c
12.3N, 72.8°W	45.2N, 151.4E	Frobisher
Off North Coast of Colombia	Kurile Islands	iP 03 11 44 c
H = 22 34 22.1	H = 02 26 01.4	Mould Bay
h 33 km	h 50 km	eP 03 09 20 c
MAG 4.5 (CGS)	MAG 4.5 (CGS)	Resolute
Coppermine	Alert	eP 03 10 06 c
eP 22 44 (40)	eP 02 35 01 (c)	Schefferville
Edmonton	Coppermine	eP 03 12 35
eP 22 43 (29)	eP 02 34 54	Yellowknife
Mould Bay	Edmonton	iP 03 10 09
eP 22 45 23 (d)	eP 02 35 52 c	
Schefferville	Frobisher	DECEMBER 24
eP 22 42 19 d	eP 02 36 48 c	U.S.C.G.S.
Yellowknife	Mould Bay	45.5N, 151.5E
eP 22 44 14	eP 02 34 24	Kurile Islands
	Resolute	H = 03 27 23.9
DECEMBER 23	eP 02 35 11	h 45 km
Edmonton	Yellowknife	MAG 4.8 (CGS)
eP 23 21 (23)	eP 02 35 14	Alert
		eP 03 36 22 (c)
DECEMBER 23	DECEMBER 24	Coppermine
Coppermine	U.S.C.G.S.	iP 03 36 15 c
eP 23 29 50	6.6°S, 85.1W	Edmonton
	West of Peru	eP 03 37 14 c
DECEMBER 24	H = 02 40 42.6	Frobisher
U.S.C.G.S.	h 33 km	iP 03 38 10 c
46.4N, 152.2E	MAG 4.3 (CGS)	Mould Bay
Kurile Islands	Edmonton	eP 03 35 46 c
H = 01 14 06.0	eP 02 51 15 (c)	Resolute
h 40 km	Mould Bay	eP 03 36 32 c
MAG 4.8 (CGS)	eP 02 53 (17)	Yellowknife
Mould Bay		eP 03 36 35
eP 01 22 (20)	DECEMBER 24	
DECEMBER 24	U.S.C.G.S.	DECEMBER 24
Mould Bay	45.4N, 151.3E	U.S.C.G.S.
eP 01 30 (08)	Kurile Islands	55.9N, 161.0E
	H = 03 00 57.3	Near East Coast of
DECEMBER 24	h 50 km	Kamchatka
Mould Bay	MAG 4.9 (CGS)	H = 10 38 23.3
eP 02 04 10	Alert	h 110 km
	eP 03 09 56 (c)	MAG 4.5 (CGS)
	Coppermine	Mould Bay
	iP 03 09 49 c	eP 10 45 01

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DECEMBER 24	DECEMBER 24	Mould Bay
U.S.C.G.S.	U.S.C.G.S.	eP' 21 25 06
13.1°S, 166.7°E	10.0N, 126.1E	Resolute
Santa Cruz Isle Region	Siargao	eP' 21 25 22
H = 11 18 15.2	H = 14 24 59.6	Schefferville
h 61 km	h 33 km	eP' 21 25 (42)
MAG 5.5 (CGS)	MAG 5.7 (CGS)	
Coppermine	Coppermine	DECEMBER 25
iP 11 31 43 c	iP 14 38 00 d	U.S.C.G.S.
Frobisher	Mould Bay	52.3N, 158.7E
eP' 11 36 (52)	eP 14 37 38 c	Near East Coast of
Mould Bay	Yellowknife	Kamchatka
eP 11 31 50	eP 14 38 15	H = 00 44 01.9
Yellowknife		h 80 km
eP 11 31 37		MAG 4.7 (CGS)
	DECEMBER 24	Edmonton
DECEMBER 24	Coppermine	eP 00 52 49
Coppermine	eP 15 10 15	Mould Bay
eP 11 53 (20)		eP 00 51 14
	DECEMBER 24	Yellowknife
DECEMBER 24	Coppermine	e 00 52 (08)
Coppermine	eP 16 24 57	
eP 12 31 (39)		DECEMBER 25
	DECEMBER 24	Coppermine
DECEMBER 24	U.S.C.G.S.	eP 02 09 06
U.S.C.G.S.	44.8N, 111.2W	
36.2N, 139.7E	Hebgen Lake, Montana	DECEMBER 25
Honshu, Japan	H = 17 54 19.8	Coppermine
H = 12 55 46.4	h 33 km	eP 03 29 09
h 70 km	MAG 4.7 (CGS)	
MAG 4.8 (CGS)	Yellowknife	DECEMBER 25
Alert	eP 17 58 24	Coppermine
eP 13 05 54 c		eP 08 07 55
Coppermine	DECEMBER 24	
eP 13 06 02 c	U.S.C.G.S.	DECEMBER 25
Edmonton	53.0°S, 159.5E	U.S.C.G.S.
eP 13 06 57	Macquarie Island Region	52.0N, 172.1W
Frobisher	H = 21 05 54.6	Andreanof Islands,
eP 13 07 38 c	h 33 km	Aleutian Islands
Mould Bay	MAG 5.8 (CGS)	H = 09 00 02.7
eP 13 05 31 c	Alert	h 45 km
Resolute	eP' 21 25 35 d	MAG 4.7 (CGS)
eP 13 06 12	Edmonton	Edmonton
Yellowknife	eP' 21 24 54	eP 09 06 50 (d)
eP 13 06 21	Frobisher	Mould Bay
	eP' 21 25 39	eP 09 06 20

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DECEMBER 25
Coppermine
eP 09 39 33

DECEMBER 25
Coppermine
eP 12 40 16

DECEMBER 25
Coppermine
eP 14 36 12

DECEMBER 25
Coppermine
eP 15 08 08

DECEMBER 25
U.S.C.G.S.
37.2N, 102.0E
Tsinghai Province, China
H = 16 14 08.4
h 33 km
MAG 4.6 (CGS)
Mould Bay
eP 16 24 39

DECEMBER 25
Mould Bay
eP 16 42 05

DECEMBER 25
Coppermine
eP 16 52 56

DECEMBER 25
U.S.C.G.S.
19.0N, 103.4W
Off Coast of Jalisco,
Mexico
H = 23 02 52.0
h 33 km
MAG 3.7 (CGS)
Mould Bay
eP 23 12 (40)

DECEMBER 26
Mould Bay
eP 00 18 30 d

DECEMBER 26
Coppermine
eP 04 48 09

DECEMBER 26
60.0°N, 111.0°W
About 37 miles S.E. of
Prince Albert Sound
H = 06 20 30.7
MAG 3.2
Coppermine
P₁ 06 21 12
S₁ 06 21 44
D = 262 km
Mould Bay
Pn 06 22 08
Sn 06 23 19
Lg 06 24 05
D = 750 km

Resolute
Pn 06 22 09
Sn 06 23 23
Lg 06 23 59
D = 750 km

DECEMBER 26
U.S.C.G.S.
76.5N, 22.4E
Svalbard Region
H = 07 58 22.4
h 33 km
MAG 5.1 (CGS)
Alert
eP 08 01 49
Coppermine
eP 08 05 00
Edmonton
eP 08 06 55 d
Frobisher
eP 08 04 26 d
Mould Bay
eP 08 03 52 d

Resolute
eP 08 03 42
Schefferville
eP 08 05 33 d
Yellowknife
eP 08 05 43

DECEMBER 26
U.S.C.G.S.
46.6N, 152.2E
Kurile Islands
H = 08 09 09.0
h 50 km
MAG 4.5 (CGS)
Coppermine
eP 08 17 52
Mould Bay
eP 08 17 21
Resolute
eP 08 18 08
Yellowknife
eP 08 18 12

DECEMBER 26
U.S.C.G.S.
69.3N, 16.5°W
300 km North of Iceland
H = 08 48 52.1
h 33 km
MAG 4.5 (CGS)
Alert
eP 08 52 38
Coppermine
eP 08 55 21
Frobisher
eP 08 53 30 d
Mould Bay
eP 08 54 37
Resolute
eP 08 53 (58)
Yellowknife
eP 08 55 55

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DECEMBER 26 Coppermine eP 10 11 10	DECEMBER 26 U.S.C.G.S. 1.4N, 126.7E Molucca Sea H = 16 23 54.2 h 65 km MAG 4.8 (CGS) Coppermine eP 16 37 28 Mould Bay eP 16 37 07 d Resolute eP 16 37 35 d	Frobisher eP 21 20 06 Mould Bay eP 21 17 35 c Resolute eP 21 18 (25) Yellowknife eP 21 17 31
DECEMBER 26 U.S.C.G.S. 43.6N, 148.3E Kurile Islands H = 10 46 26.9 h 33 km MAG 4.4 (CGS) Frobisher eP 10 57 30 c Mould Bay eP 10 55 09 (c) Resolute eP 10 55 55 Yellowknife eP 10 56 01	DECEMBER 26 U.S.C.G.S. 36.4N, 71.3E Hindu Kush H = 20 50 21.2 h 140 km MAG 4.9 (CGS) Alert e(P) 21 00 09 Coppermine eP 21 01 53 Edmonton eP 21 03 (10) Mould Bay eP 21 01 03 c Resolute eP 21 01 11 Yellowknife iP 21 02 23 (c)	DECEMBER 26 Coppermine eP 23 02 04
DECEMBER 26 Coppermine eP 11 07 33	DECEMBER 26 U.S.C.G.S. 86.1N, 73.2E Arctic Ocean H = 23 21 33.2 h 33 km MAG 4.3 (CGS) Coppermine eP 23 27 06 Edmonton eP 23 29 14 Mould Bay eP 23 25 (40)	DECEMBER 26 U.S.C.G.S. 86.1N, 73.2E Arctic Ocean H = 23 21 33.2 h 33 km MAG 4.3 (CGS) Coppermine eP 23 27 06 Edmonton eP 23 29 14 Mould Bay eP 23 25 (40)
DECEMBER 26 Coppermine eP 13 55 15	DECEMBER 27 Mould Bay eP 00 20 03	DECEMBER 27 Mould Bay eP 00 20 03
DECEMBER 26 Coppermine eP 16 05 03	DECEMBER 27 U.S.C.G.S. 45.7N, 123.3W Northwest Oregon H = 02 36 22.3 h 37 km MAG 4.5 (CGS) Coppermine eP 02 41 24 Edmonton eP 02 38 42 Frobisher eP 02 43 (13)	DECEMBER 27 U.S.C.G.S. 45.7N, 123.3W Northwest Oregon H = 02 36 22.3 h 37 km MAG 4.5 (CGS) Coppermine eP 02 41 24 Edmonton eP 02 38 42 Frobisher eP 02 43 (13)
DECEMBER 26 Resolute eP 16 16 08	DECEMBER 26 U.S.C.G.S. 51.2N, 169.8W Fox Islands, Aleutian Islands H = 21 11 11.9 h 33 km MAG 4.3 (CGS) Alert eP 21 19 01 Edmonton eP 21 17 54 (d)	DECEMBER 26 U.S.C.G.S. 51.2N, 169.8W Fox Islands, Aleutian Islands H = 21 11 11.9 h 33 km MAG 4.3 (CGS) Alert eP 21 19 01 Edmonton eP 21 17 54 (d)
DECEMBER 26 Resolute eP 16 29 49		

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Mould Bay eP 02 42 (35) Yellowknife eP 02 40 22	DECEMBER 27 Coppermine eP 16 55 05	DECEMBER 28 U. S. C. G. S. 14.4N, 92.3W Near Coast of Guatemala H = 06 57 09.9 h 33 km MAG 4.5 (CGS) Coppermine eP 07 06 44 Edmonton eP 07 05 01 (c) Mould Bay eP 07 07 (38) Yellowknife iP 07 06 07 c
DECEMBER 27 Mould Bay eP 03 04 44 c	DECEMBER 27 Coppermine eP 18 09 37	
DECEMBER 27 Coppermine eP 04 10 56	DECEMBER 27 Coppermine eP 21 52 26 c	
DECEMBER 27 Mould Bay eP 06 53 48	DECEMBER 27 U. S. C. G. S. 6.7°N, 83.9W South of Costa Rica H = 23 46 48.0 h 33 km MAG 4.1 (CGS) Mould Bay eP 23 58 11	
DECEMBER 27 Mould Bay eP 09 41 40 c		DECEMBER 28 U. S. C. G. S. 44.8N, 110.9W Yellowstone National Park, Wyoming H = 08 22 19.3 h 33 km MAG 4.3 (CGS) Edmonton eP 08 24 (23)
DECEMBER 27 Coppermine eP 12 47 49 Mould Bay eP 12 47 05 c	DECEMBER 28 Coppermine eP 00 58 39 Coppermine eP 01 55 29 d Edmonton eP 01 56 44 c Mould Bay eP 01 54 39 c	
DECEMBER 27 U. S. C. G. S. 45.9N, 151.0E Kurile Islands H = 12 48 45.6 h 33 km MAG 4.1 (CGS) Frobisher eP 12 59 (31) Mould Bay eP 12 57 07	DECEMBER 28 U. S. C. G. S. 5.1°S, 153.5E New Ireland Region H = 05 45 20.2 h 70 km MAG 5.5 (CGS) Coppermine eP 05 58 35 c Edmonton eP 05 58 (39) Yellowknife iP 05 58 37 c	DECEMBER 28 U. S. C. G. S. 32.7°S, 178.9W Kermadec Islands H = 09 03 52.9 h 33 km Alert iP' 09 22 49 c Banff eP 09 17 37 Coppermine eP 09 22 20 c Edmonton eP 09 17 47 Frobisher eP' 09 22 53 d Halifax iP' 09 22 57 c
DECEMBER 27 Mould Bay eP 14 48 51		
DECEMBER 27 Coppermine eP 16 25 03		

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Mould Bay eP' 09 22 28 (d)	DECEMBER 28 Coppermine eP 20 51 (26)	DECEMBER 29 U.S.C.G.S. 18.5°S, 69.7°W Northern Chile H = 17 15 39.2 h 113 km MAG 5.5 (CGS)
Resolute eP' 09 22 (35) d	DECEMBER 28 U.S.C.G.S. 62.9N, 154.0W Central Alaska H = 23 20 26.6 h 33 km MAG 4.2 (CGS)	Banff iP 17 27 37
Schefferville eP' 09 22 55	Coppermine eP 23 24 (15)	Coppermine eP 17 28 37
Victoria eP 09 17 11	Edmonton eP 23 25 30 c	Edmonton iP 17 27 41 d
DECEMBER 28 Halifax eP 09 26 15	Mould Bay eP 23 24 (31)	Frobisher iP 17 27 47 c
DECEMBER 28 U.S.C.G.S. 18.4N, 106.0W Off Coast of Jalisco, Mexico H = 16 48 37.0 h 33 km MAG 4.3 (CGS)	DECEMBER 29 Canadian Arctic H = 04 14 10 MAG 4.6	Halifax iP 17 25 55 d
Coppermine eP 16 57 27	Frobisher Pn 04 15 57 Sn 04 17 19 D = 825 km	London eP 17 25 49
Mould Bay eP 16 58 29	DECEMBER 29 U.S.C.G.S. 4.1°S, 151.9E New Britain H = 12 52 02.2 h 119 km MAG 4.9 (CGS)	Mould Bay eP 17 29 09 (c)
DECEMBER 28 U.S.C.G.S. 60.4°S, 51.8W South Shetland Isle Region H = 17 58 33.1 h 49 km MAG 5.4 (CGS)	Coppermine eP 13 05 11	Resolute eP 17 28 46
Alert eP' 18 17 58 (d)	DECEMBER 29 Mould Bay eP 16 03 16	Schefferville eP 17 26 58 d
Edmonton eP' 18 17 23	DECEMBER 28 Coppermine eP 19 55 42	Victoria eP 17 27 49
Frobisher eP' 18 17 (27)		Yellowknife iP 17 28 18 c
Mould Bay eP' 18 17 (59)		DECEMBER 29 Mould Bay eP 18 20 15
DECEMBER 28 Coppermine eP 19 55 42		DECEMBER 29 Coppermine iP 23 18 40 d

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DECEMBER 30	Frobisher	Edmonton
U.S.C.G.S.	iP 13 40 13 c	eP 20 42 52
21.6N, 144.5E	London	Frobisher
Mariana Islands Region	eP 13 41 35	eP 20 43 34
H = 01 15 24.5	Mould Bay	Mould Bay
h 120 km	iP 13 37 49 c	eP 20 41 (17)
MAG 5.2 (CGS)	Resolute	Resolute
Alert	iP 13 38 37 c	eP 20 42 01 c
eP 01 26 56 (c)	Schefferville	Yellowknife
Banff	iP 13 41 05 c	eP 20 42 10
eP 01 27 17	Victoria	
Coppermine	eP 13 38 59	DECEMBER 30
eP 01 26 47 c	Yellowknife	U.S.C.G.S.
Edmonton	iP 13 38 40 (c)	6.9 N, 94.7E
eP 01 27 22		Nicobar Islands
Frobisher	DECEMBER 30	H = 22 06 07.1
eP 01 28 16	U.S.C.G.S.	h 64 km
Mould Bay	9.4N, 126.0E	MAG 5.6 (CGS)
eP 01 26 27	Near East Coast of	Alert
Resolute	Mindanao P. I.	iP 22 19 01 c
eP 01 27 04	H = 15 04 14.2	Mould Bay
Victoria	h 102 km	eP 22 19 22 c
eP 01 26 58	MAG 5.6 (CGS)	
Yellowknife	Alert	DECEMBER 31
eP 01 26 59	eP 15 16 55 d	H = 04 02 24
	Coppermine	MAG 2.8
DECEMBER 30	eP 15 17 11 d	Port Hardy
Edmonton	Mould Bay	eP 04 02 52.1
eP 12 50 (10)	iP 15 16 48 d	eS 04 03 13.7
	Resolute	D = 178 km
DECEMBER 30	eP 15 17 16 d	
U.S.C.G.S.	Yellowknife	DECEMBER 31
45.5N, 150.6E	iP 15 17 25	Coppermine
Kurile Islands		eP 06 40 (44)
H = 13 29 25.3	DECEMBER 30	
h 40 km	U.S.C.G.S.	DECEMBER 31
MAG 5.7 (CGS)	42.4N, 142.8E	U.S.C.G.S.
Alert	Hokkaido, Japan	45.2N, 151.5E
eP 13 38 25 c	H = 20 32 19.5	Kurile Islands
Banff	h 50 km	H = 10 45 17.7
iP 13 39 18 d	MAG 4.6 (CGS)	h 45 km
Coppermine	Alert	MAG 4.5 (CGS)
iP 13 38 20 c	eP 20 41 44 (c)	Coppermine
Edmonton	Coppermine	eP 10 54 10 d
eP 13 39 19 c	eP 20 41 51 c	Edmonton
		eP 10 55 08 (c)

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Frobisher		DECEMBER 31	
iP	10 56 05 c	Alert	
Mould Bay		eP	19 20 25
eP	10 53 40		
		DECEMBER 31	
DECEMBER 31		U.S.C.G.S.	
U.S.C.G.S.		17.4°S, 174.2W	
63.7N, 146.0W		Tonga Islands	
Central Alaska		H = 19 16 54.9	
H = 12 56 58.0		h 80 km	
h 33 km		MAG 5.4 (CGS)	
MAG 3.8 (CGS)		Coppermine	
Mould Bay		eP	19 30 10
eP	13 00 32	Edmonton	
		eP	19 29 34
DECEMBER 31		Mould Bay	
U.S.C.G.S.		eP	19 30 27
56.5°S, 26.0W			
Sandwich Islands		DECEMBER 31	
H = 17 37 32.1		U.S.C.G.S.	
h 30 km		16.6N, 99.0W	
MAG 5.3 (CGS)		Guerrero, Mexico	
Alert		H = 21 41 43.0	
eP'	17 56 51	h 33 km	
Coppermine		MAG 4.3 (CGS)	
eP'	17 56 57	Mould Bay	
Edmonton		eP	21 51 51
eP'	17 56 (37)		
Frobisher		DECEMBER 31	
eP'	17 56 26	Mould Bay	
Mould Bay		eP	21 55 15 c
iP'	17 57 04 d		
Resolute			
eP'	17 56 45		
Schefferville			
eP'	17 56 12 d		
Victoria			
eP'	17 56 43		
Yellowknife			
eP'	17 56 52		
DECEMBER 31			
Coppermine			
eP	18 28 39 d		
Mould Bay			
eP	18 28 47 (c)		

DOMINION OBSERVATORIES

EARTHQUAKES IN THE CANADIAN ARCTIC

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

JULY	6	10 26 21.	66°2N±0°7', 133°6W±2°0.	M = 4.5.	About 75 miles SSE of Fort McPherson, N. W. T.
JULY	7	18 28 01.	74°20'N±16', 95°20'W±1°0'.	M = 4.0.	Barrow Strait, N. W. T.
JULY	9	10 56 59.	75°9N±0°6', 107°3W±0°7.	Depth 24 km.	M = 2.9. Melville Island, N. W. T.
JULY	12	15 23 11.		M = 2.4.	61 miles from Resolute, N. W. T.
JULY	15	08 36 41.	61°7N, 134°9W.	M = 4.2.	(CGS). Yukon Territory.
JULY	15	16 42 35.		M = 3.8.	(CGS). Aftershock of previous earthquake.
JULY	20	00 11 35.	65°2N, 133°7W.	M = 4.6.	(CGS). Yukon Territory.
JULY	21	08 14 44.		M = 2.7.	97 miles from Alert, N. W. T.
JULY	27	02 33 27.		M = 2.1.	53 miles from Resolute, N. W. T.
JULY	29	13 32 50.		M = 3.7.	434 miles from Resolute, N. W. T.
AUGUST	5	03 46 57.		M = 1.4.	25 miles from Resolute, N. W. T.
AUGUST	19	02 21 59.		M = 1.9.	56 miles from Alert, N. W. T.
AUGUST	19	15 26 02.		M = 2.0.	107 miles from Mould Bay, N. W. T.
AUGUST	21	22 40 41.		M = 1.3.	10 miles from Resolute, N. W. T.
AUGUST	24	09 12 23.		M = 2.6.	53 miles from Resolute, N. W. T.
AUGUST	28	15 10 02.	69°50'N±19', 73°05'W±50'.		About 90 miles west of Clyde Inlet, N. W. T.
AUGUST	30	05 28 37.		M = 2.1.	70 miles from Resolute, N. W. T.

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SEPTEMBER 4 13 32 12. 71°4N, 73°3W. M = 5.9. (CGS). 6.25-6.5 (PAS). 6 (BRK). Near the coast of Baffin Island, N. W. T. This earthquake was followed by 42 aftershocks by the end of the year. Three of these are given a place in the list as they were large enough to be located by U. S. C. G. S. The remainder follow:

SEPTEMBER 4 13 56 21. M = 4.5.

SEPTEMBER 4 14 05 13. M = 5.0.

SEPTEMBER 4 14 21 21. M = 4.8

SEPTEMBER 4 15 06 21. M = 4.7.

SEPTEMBER 4 15 14 25. M = 4.5.

SEPTEMBER 4 15 26 17. M = 5.1.

SEPTEMBER 4 19 57 38. M = 5.1.

SEPTEMBER 4 22 15 06. M = 5.0.

SEPTEMBER 4 23 03 23. M = 5.0.

SEPTEMBER 5 14 45 23. M = 4.0.

SEPTEMBER 5 22 26 28. M = 4.8.

SEPTEMBER 6 05 55 55. M = 4.6.

SEPTEMBER 7 03 03 47. M = 5.0.

SEPTEMBER 8 15 38 39. M = 4.8.

SEPTEMBER 9 22 23 17. M = 4.6.

SEPTEMBER 21 21 51 24. M = 4.1.

SEPTEMBER 22 11 39 24. M = 4.4.

SEPTEMBER 24 16 52 42. M = 4.3.

SEPTEMBER 25 00 45. M = 4.2.

SEPTEMBER 29 13 52 44. M = 4.1.

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OCTOBER 1 02 26 33. M = 4.1.
OCTOBER 9 04 06 59. M = 4.0.
OCTOBER 9 08 00 31. M = 3.6.
OCTOBER 12 02 46 48. M = 5.0.
OCTOBER 14 04 03 47. M = 4.1.
OCTOBER 14 10 15 36. M = 4.2.
OCTOBER 18 19 32 31. M = 4.8.
OCTOBER 22 08 32 04. M = 4.0.
OCTOBER 25 20 32 24. M = 4.4.
NOVEMBER 5 16 07 17. M = 4.0.
NOVEMBER 26 16 20 13. M = 4.3.
DECEMBER 1 16 23 53. M = 4.7.
DECEMBER 5 05 18 22. M = 4.2.
DECEMBER 7 00 26 33. M = 4.3.
DECEMBER 15 01 26 02. M = 4.5.
DECEMBER 15 03 50 53. M = 4.4.
DECEMBER 15 05 17 53. M = 4.5.
DECEMBER 17 03 17 06. M = 4.5.
DECEMBER 19 15 14 30. M = 4.5.

It is felt that the M_L Magnitudes found at Ottawa are, in general, too large - possibly because the nearest station is more than 800 km from the epicentres.

SEPTEMBER 4 21 20 19. 71°5N, 72°8W. M = 4.1. (CGS), 5.7. (OTT). Aftershock of earthquake at 13 32 12 on September 4.

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- SEPTEMBER 4 21 41 01. 71°6N, 73°5W. M = 4.4. (CGS). 5.8. (OTT). Aftershock of earthquake at 13 32 12 on September 4.
- SEPTEMBER 6 01 46 13. 71°5N, 73°0W. M = 4.4. (CGS). 5.8. (OTT). Aftershock of earthquake at 13 32 12 on September 4.
- SEPTEMBER 7 08 10 53. M = 0.8. 10 miles from Resolute, N. W. T.
- SEPTEMBER 11 04 20 31. 372 miles from Yellowknife, N. W. T.
- SEPTEMBER 13 12 13 19. M = 1.8. 15 miles from Resolute, N. W. T.
- SEPTEMBER 18 18 36 14. M = 4.8. Foreshock of following event.
- SEPTEMBER 18 22 31 27. 68°30'N±19', 70°05'W±45'. M = 5.1. About 100 miles south of Clyde Inlet, N. W. T.
- SEPTEMBER 25 10 45 31. 72°45'N±1°0', 106°20'W±2°0'. M = 3.3. Victoria Island, N. W. T.
- OCTOBER 1 06 45 35. 63°40'N±1°0', 79°35'W±1°7'. M = 4.1. Foxe Channel, N. W. T. OR 67°50'N±1°0', 62°15'W±1°2'. M = 4.1. Just off coast of Baffin Island, N. W. T.
- OCTOBER 2 02 09 47. M = 1.5. 81 miles from Resolute, N. W. T.
- OCTOBER 6 08 04 09. M = 1.1. 28 miles from Resolute, N. W. T.
- OCTOBER 7 12 06 47. M = 1.9. 92 miles from Alert, N. W. T.
- OCTOBER 13 01 37 01. 81°0N±0°5, 94°0W±1°5. M = 4.0. North coast of Axel Heiberg Island, N. W. T.
- OCTOBER 15 07 26 11. 60°1N, 134°7W. M = 4.3. (CGS). Yukon Territory.
- OCTOBER 17 16 49 48. 75°10'N±19', 74°10'W±1°0'. M = 3.6. About 100 miles east of Devon Island, N. W. T.
- OCTOBER 18 07 09 29. M = 3.0. Foresock of earthquake at 08 07 03.
- OCTOBER 18 07 11 36. M = 1.6. Foreshock of earthquake at 08 07 03.

DOMINION OBSERVATORIES

OCTOBER	18	07	12	47.	M = 2.1.	Foreshock of earthquake at 08 07 03.
OCTOBER	18	07	14	21.	M = 1.6.	Foreshock of earthquake at 08 07 03.
OCTOBER	18	07	15	29.	M = 1.6.	Foreshock of earthquake at 08 07 03.
OCTOBER	18	07	24	06.	M = 1.9.	Foreshock of earthquake at 08 07 03.
OCTOBER	18	08	07	03.	77°5N, 118°1W. M = 3.4.	Off the north coast of Prince Patrick Island N. W. T. This is the main shock of a swarm having 6 foreshocks and 16 aftershocks during the day.
OCTOBER	18	08	10	23.	M = 1.8.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08	11	43.	M = 1.8.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08	14	40.	M = 1.5.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08	19	04.	M = 1.7.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08	22	05.	M = 2.0.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08	29	31.	M = 1.4.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08	38	27.	M = 1.6.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08	39	41.	M = 1.9.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	08	54	23.	M = 1.5.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	09	30	44.	M = 1.8.	Aftershock of earthquake at 08 07 03.

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OCTOBER	18	10	47	51.	M = 1.9.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	10	53	49.	M = 2.2.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	11	04	43.	M = 1.4.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	11	06	28.	M = 2.2.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	12	43	26.	M = 1.6.	Aftershock of earthquake at 08 07 03.
OCTOBER	18	13	46	12.	76°20'N±30', 75°00'W±1°0'. M = 3.5.	About 75 miles from Devon Island, N. W. T.
OCTOBER	18	22	41	35.	M = 1.6.	Aftershock of earthquake at 08 07 03.
OCTOBER	19	18	03	47.	M = 2.2.	95 miles from Mould Bay, N. W. T.
OCTOBER	23	13	33	43.	M = 2.1.	89 miles from Mould Bay, N. W. T.
OCTOBER	27	00	16	20.	M = 2.4.	100 miles from Resolute, N. W. T.
OCTOBER	27	00	56	59.	M = 2.2.	148 miles from Resolute, N. W. T.
OCTOBER	31	20	52	28.	M = 1.8.	Foreshock of earthquake at 21 11 33.
OCTOBER	31	21	11	33.	77°4N±0°3, 118°7W±1°0. M = 3.2.	Near Cape Andreasen, Prince Patrick Island, N. W. T. One foreshock and three aftershocks.
OCTOBER	31	22	07	33.	M = 2.2.	Aftershock of earthquake at 21 11 33.
OCTOBER	31	22	50	26.	M = 3.0.	Aftershock of earthquake at 21 11 33.
NOVEMBER	1	04	47	27.	M = 2.4.	Aftershock of earthquake at 21 11 33 on October 31.
NOVEMBER	5	04	24	29.	M = 1.6.	71 miles from Alert, N. W. T.

DOMINION OBSERVATORIES

NOVEMBER	7	15	23	02.	M = 1.5.	30 miles from Resolute, N. W. T.
NOVEMBER	13	03	57	05.	M = 0.9.	36 miles from Resolute, N. W. T.
NOVEMBER	14	06	26	07.	63°4'N±0°5', 130°0'W±1°0.	M = 4.0. On the Yukon - Mackenzie Border.
DECEMBER	4	06	29	56.	M = 3.8.	510 miles from Coppermine, N. W. T.
DECEMBER	4	06	49	29.	76°40'N±45', 119°30'W±1°0.	M = 4.1. Prince Patrick Island, N. W. T.
DECEMBER	5	03	21	56.	M = 4.0.	510 miles from Coppermine, N. W. T.
DECEMBER	9	09	16	39.	72°20'N±30', 91°20'W±1°0.	M = 4.4. Regent Inlet, N. W. T.
DECEMBER	9	15	01	09.	M = 4.4.	510 miles from Frobisher, N. W. T.
DECEMBER	26	06	20	31.	60°0'N±50', 111°0'W±1°5.	M = 3.2. About 37 miles SE of Prince Albert Sound, N. W. T.
DECEMBER	29	04	14	10.	M = 4.6.	513 miles from Frobisher, N. W. T.

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EARTHQUAKES OF EASTERN CANADA AND
ADJACENT AREAS

The following disturbances were recorded during the third and fourth quarters of 1963. The times of observed phases are given in their respective chronological positions in the text of this bulletin. M = magnitude.

- JULY 1 19 59 12. 42°34'N±10', 73°45'W±15'. M = 3.3. About 20 miles south of Albany in the Hudson River Valley, N. Y.
- AUGUST 1 06 34 15.5. 46°48'N±10', 66°30'W±12'. M = 3.0. Depth about 20 km. About 25 miles north of Boiestown, N. B.
- AUGUST 15 14 08 06. 45°12'N±10', 74°52'W±10'. M = 2.0. In the St. Lawrence River between Massena, N. Y., and Long Sault, Ont. Felt at Harisons Corners, 13 miles north and a little west of Cornwall. Also 4 1/2 miles north of Ingleside.
- AUGUST 26 02 41 01.8. 45°54'N±8', 74°53'W±10'. M = 2.2. About 3 miles east of Namur, Que.
- AUGUST 26 16 29 35. 45°10'N±8', 73°57'W±10'. M = 3.5. About 5 miles NE of Léry, Que. Felt lightly at Montreal and Chateauguay, Que.
- SEPTEMBER 19 18 47 49.5. M = 3.8. Depth about 22 km. 360 miles from Montreal.
- OCTOBER 15 12 07 50.6. M = 3.0. Foreshock of earthquake at 13 59 53.
- OCTOBER 15 12 29 02. M = 4.4. Foreshock of earthquake at 13 59 53.
- OCTOBER 15 13 59 53. 46°10'N±10', 77°35'W±12'. M = 4.5. Depth about 14 km. About 10 miles from Deep River, Ont.
- OCTOBER 16 15 31 00.7. 42°4N, 70°7W. M = 4.7. (OTT). 4.2. (PAL). Depth about 25 km. North coast of Massachusetts. Felt in three states. Slight damage at Somerville, Mass.
- OCTOBER 17 05 13 40.8. M = 3.0. Depth about 15 km. Aftershock of earthquake at 13 59 53 on October 15.

DOMINION OBSERVATORIES

- OCTOBER 19 06 29 34.4. 50°0N±0:5, 67°8W±0:1. M = 2.9.
Toulnostouc River Area, Que. OR 50°0±0.5°N,
65°0W±0:1. M = 2.9. Mouth of St. Lawrence River
about 20 miles west of Anticosti Island.
- OCTOBER 25 08 49 39. 51:4N±0:5, 61:9W±0:8. M = 3.3. About
80 miles north of Natashquan, Que.
- DECEMBER 4 21 32 34.9. 43:6N, 71:6W. M = 3.7. (CGS). 3.4.
(OTT). New Hampshire, U. S. A. Slight damage at
Laconia.

SEISMOLOGICAL BULLETIN - 1963

EARTHQUAKES IN WESTERN CANADA AND
ADJACENT AREAS

The following disturbances were recorded during the third and fourth quarters of 1963. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

The events in the following list at distances from 99 to 102 miles from Penticton, B. C., are known to be blasts at Merritt, B. C. M = magnitude.

JULY 1 13 54 40. M = 2.4. 106 miles from Port Hardy.

JULY 2 03 40 08. 51°3N, 117°6W. M = 2.6. Near Glacier, B. C.

JULY 2 23 35 03. M = 2.0. 99 miles from Penticton.

JULY 3 00 43 51. M = 2.1. 101 miles from Penticton.

JULY 3 17 48 36. M = 2.5. 106 miles from Port Hardy.

JULY 3 21 58 23. M = 2.0. 102 miles from Penticton.

JULY 4 01 07 50. M = 2.4. 139 miles from Penticton.

JULY 4 19 32 35. M = 2.2. 99 miles from Penticton.

JULY 5 19 13 27. M = 2.5. 106 miles from Penticton.

JULY 5 20 30 34. M = 2.0. 51 miles from Penticton.

JULY 5 22 33 02. M = 2.3. 99 miles from Penticton.

JULY 6 21 10 15. M = 2.4. 99 miles from Penticton.

JULY 8 22 30 30. M = 2.2. 100 miles from Penticton.

JULY 9 21 05 07. M = 2.4. 99 miles from Penticton.

JULY 9 23 36 25. M = 2.7. 104 miles from Penticton.

JULY 10 22 38 22. M = 1.9. 99 miles from Penticton.

JULY 10 23 06 33. M = 1.9. 41 miles from Penticton.

JULY 11 22 54 18. M = 1.8. 100 miles from Penticton.

DOMINION OBSERVATORIES

JULY 12 06 54 41. M = 2.8. 109 miles from Penticton.

JULY 12 12 23 23. 50°40'N, 129°55'W. M = 4.6. West of Port Hardy, B. C.

JULY 12 12 52 35. 50°35'N, 130°00'W. M = 4.5. West of Port Hardy, B. C.

JULY 12 15 54 13. M = 2.4. 93 miles from Port Hardy.

JULY 12 16 08 13. M = 2.3. 79 miles from Port Hardy.

JULY 12 19 07 05. M = 2.5. 99 miles from Penticton.

JULY 12 23 55 58. M = 2.4. 100 miles from Penticton.

JULY 13 00 02 25. M = 3.0. 176 miles from Penticton.

JULY 13 03 16 53. 49°45'N, 124°00'W. M = 3.1. On Vancouver Island.

JULY 13 21 38 51. M = 2.1. 81 miles from Penticton.

JULY 14 21 13 22. M = 2.1. 98 miles from Penticton.

JULY 15 18 46 43. M = 2.9. 175 miles from Penticton.

JULY 16 00 42 40. M = 2.6. 99 miles from Penticton.

JULY 16 21 42 05. M = 2.4. 100 miles from Penticton.

JULY 16 23 32 58. M = 2.4. 108 miles from Penticton.

JULY 17 03 15 15. 50°23'N, 121°05'W. M = 2.6. North of Vancouver.

JULY 17 18 30 24. M = 2.2. 100 miles from Penticton.

JULY 18 00 04 05. 49°15'N, 128°45'W. M = 4.6. West of Vancouver Island.

JULY 18 23 01 18. M = 2.7. 106 miles from Penticton.

JULY 19 19 10 04. M = 2.2. 98 miles from Penticton.

JULY 19 20 20 17. M = 2.5. 61 miles from Penticton.

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JULY 19 23 02 23. M = 2.2. 94 miles from Penticton.
JULY 19 23 19 35. M = 2.5. 99 miles from Penticton.
JULY 20 08 54 26. 49°00'N, 128°40'W. M = 3.0. West of Vancouver
Island.
JULY 21 21 45 48. M = 2.4. 99 miles from Penticton.
JULY 23 19 12 47. M = 2.3. 123 miles from Penticton.
JULY 23 22 18 32. M = 2.0. 101 miles from Penticton.
JULY 24 19 12 29. M = 2.2. 104 miles from Penticton.
JULY 24 21 30 12. M = 2.1. 98 miles from Penticton.
JULY 24 22 18 16. M = 2.2. 99 miles from Penticton.
JULY 25 14 28 06. M = 2.4. 173 miles from Penticton.
JULY 25 18 26 18. M = 2.9. 129 miles from Penticton.
JULY 25 18 53 10. M = 2.7. 98 miles from Penticton.
JULY 26 01 54 04. M = 2.2. 100 miles from Penticton.
JULY 26 08 41 09. M = 3.0. 178 miles from Penticton.
JULY 26 08 45 02. M = 3.6. 183 miles from Penticton.
JULY 26 19 03 24. M = 2.3. 109 miles from Penticton.
JULY 26 23 13 06. M = 2.0. 86 miles from Penticton.
JULY 26 23 24 13. M = 2.1. 99 miles from Penticton.
JULY 27 21 47 53. M = 2.2. 100 miles from Penticton.
JULY 27 23 28 21. M = 3.0. 203 miles from Penticton.
JULY 28 06 15 21. M = 2.0. 74 miles from Penticton.
JULY 29 21 30 16. M = 2.1. 99 miles from Penticton.
JULY 29 22 48 02. M = 2.4. 99 miles from Penticton.

DOMINION OBSERVATORIES

JULY 30 21 29 59. 47°55'N, 125°40'W. M = 2.6. Off coast of Washington, U. S. A.

JULY 30 22 40 42. M = 2.5. 97 miles from Port Hardy.

JULY 31 00 08 08. M = 3.8. 298 miles from Penticton.

AUGUST 2 08 28 38. 48°5N, 122°0W. M = 1.6. Washington, U. S. A.

AUGUST 3 22 12 41. M = 2.0. 87 miles from Penticton.

AUGUST 4 04 17 27. M = 2.2. 101 miles from Penticton.

AUGUST 6 12 46 22. M = 2.2. 101 miles from Port Hardy.

AUGUST 8 04 48 48. M = 1.9. 118 miles from Port Hardy.

AUGUST 10 22 37 06. M = 1.7. 99 miles from Penticton.

AUGUST 10 22 46 33. M = 1.7. 120 miles from Penticton.

AUGUST 10 23 43 37. 49°35'N, 115°25'W. M = 2.0. Near Cranbrook, B. C.

AUGUST 11 01 17 43. M = 2.1. 126 miles from Penticton.

AUGUST 11 14 18 22. M = 1.8. 106 miles from Port Hardy.

AUGUST 11 20 45 41. M = 1.6. 107 miles from Port Hardy.

AUGUST 12 02 01 33. M = 1.8. 129 miles from Penticton.

AUGUST 12 14 07 15. 47°2N, 120°9W. M = 2.1. Central Washington, U. S. A.

AUGUST 13 15 03 58. 47°3N, 121°6W. M = 2.6. Central Washington, U. S. A.

AUGUST 18 00 24 26. 47°5N, 122°6W. M = 3.2. Central Washington, U. S. A.

AUGUST 20 06 09 00. M = 2.2. 124 miles from Port Hardy.

AUGUST 21 12 38 04. M = 2.2. 109 miles from Port Hardy.

AUGUST 21 13 59 02. M = 2.0. 54 miles from Port Hardy.

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AUGUST	22	20	10	27.	M = 1.1.	18 miles from Victoria.
AUGUST	22	20	36	46.	M = 2.3.	106 miles from Port Hardy.
AUGUST	23	15	22	04.	M = 2.1.	78 miles from Port Hardy.
AUGUST	26	09	20	43.	48°0N, 123°0W.	M = 3.1. Washington, U. S. A.
AUGUST	27	16	57	32.	M = 2.5.	151 miles from Penticton.
AUGUST	27	22	22	42.	M = 2.7.	187 miles from Penticton.
AUGUST	30	13	47	30.	M = 2.6.	97 miles from Port Hardy.
AUGUST	30	19	10	03.	M = 2.6.	98 miles from Port Hardy.
AUGUST	30	23	49	46.	M = 2.8.	97 miles from Port Hardy.
AUGUST	31	03	22	58.	M = 2.6.	96 miles from Port Hardy.
AUGUST	31	07	52	53.	M = 2.6.	115 miles from Port Hardy.
AUGUST	31	07	56	34.	M = 2.4.	110 miles from Port Hardy.
AUGUST	31	08	00	11.	M = 2.0.	94 miles from Port Hardy.
AUGUST	31	08	23	59.	M = 2.0.	99 miles from Port Hardy.
AUGUST	31	12	23	21.	M = 3.0.	178 miles from Penticton.
AUGUST	31	18	45	32.	M = 2.2.	94 miles from Port Hardy.
AUGUST	31	19	47	16.	M = 2.3.	98 miles from Port Hardy.
AUGUST	31	20	34	49.	M = 2.2.	92 miles from Port Hardy.
AUGUST	31	21	01	25.	M = 2.3.	97 miles from Port Hardy.
SEPTEMBER	1	06	59	41.	M = 2.3.	94 miles from Port Hardy.
SEPTEMBER	1	07	01	31.	50°4N, 129°5W.	M = 3.2. West of Vancouver Island.
SEPTEMBER	1	07	06	16.	M = 2.5.	94 miles from Port Hardy.

DOMINION OBSERVATORIES

SEPTEMBER	1	07	13	52.	M = 2.9.	86 miles from Port Hardy.
SEPTEMBER	1	07	32	11.	M = 2.3.	94 miles from Port Hardy.
SEPTEMBER	1	08	19	07.	M = 2.0.	103 miles from Port Hardy.
SEPTEMBER	1	14	50	13.	M = 2.6.	95 miles from Port Hardy.
SEPTEMBER	1	15	15	41.	M = 2.1.	97 miles from Port Hardy.
SEPTEMBER	1	15	23	55.	50°7N, 129°4W.	M = 4.0. West of Vancouver Island.
SEPTEMBER	1	15	28	15.	M = 2.3.	87 miles from Port Hardy.
SEPTEMBER	1	16	45	11.	M = 2.5.	96 miles from Port Hardy.
SEPTEMBER	1	18	02	59.	M = 2.7.	98 miles from Port Hardy.
SEPTEMBER	1	18	20	24.	M = 2.0.	98 miles from Port Hardy.
SEPTEMBER	1	18	47	15.	M = 2.1.	141 miles from Port Hardy.
SEPTEMBER	1	19	05	38.	M = 2.0.	93 miles from Port Hardy.
SEPTEMBER	1	19	22	47.	50°5N, 129°5W.	M = 2.8. West of Vancouver Island.
SEPTEMBER	1	22	07	28.	51°4N, 129°6W.	M = 2.7. West of Vancouver Island.
SEPTEMBER	1	23	55	42.	51°6N, 129°1W.	M = 2.7. West of Vancouver Island.
SEPTEMBER	2	01	36	44.	M = 2.9.	99 miles from Port Hardy.
SEPTEMBER	2	03	46	57.	51°5N, 129°0W.	M = 4.2. West of Vancouver Island.
SEPTEMBER	2	03	48	37.	M = 2.8.	100 miles from Port Hardy.
SEPTEMBER	2	03	51	13.	M = 2.5.	98 miles from Port Hardy.
SEPTEMBER	2	13	22	31.	50°7N, 129°7W.	M = 3.8. West of Vancouver Island.

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SEPTEMBER	2	13	27	35.	50°3N, 129°3W.	M = 4.6.	West of Vancouver Island.
SEPTEMBER	2	13	55	58.		M = 4.0.	97 miles from Port Hardy.
SEPTEMBER	2	14	12	48.	52°0N, 129°5W.	M = 4.2.	West of Vancouver Island.
SEPTEMBER	2	14	24	43.		M = 3.3.	98 miles from Port Hardy.
SEPTEMBER	3	19	31	33.	50°5N, 129°5W.	M = 4.0.	West of Vancouver Island.
SEPTEMBER	4	19	21	23.		M = 2.5.	149 miles from Penticton.
SEPTEMBER	5	11	36	32.	50°3N, 129°1W.	M = 4.2.	West of Vancouver Island.
SEPTEMBER	6	20	31	46.	50°1N, 129°5W.	M = 4.4.	West of Vancouver Island.
SEPTEMBER	8	01	14	13.		M = 2.0.	94 miles from Port Hardy.
SEPTEMBER	8	15	53	33.	48°5N, 123°0W.	M = 2.5.	Olympic Mountain, U. S. A.
SEPTEMBER	8	16	27	37.	50°4N, 128°1W.	M = 2.8.	Quatsino Sound.
SEPTEMBER	9	05	18	32.		M = 2.8.	98 miles from Port Hardy.
SEPTEMBER	9	07	27	52.	49°6N, 130°4W.	M = 2.8.	West of Vancouver Island.
SEPTEMBER	10	13	57	45.		M = 2.0.	96 miles from Port Hardy.
SEPTEMBER	11	19	13	49.	48°4N, 130°1W.	M = 2.8.	West of Vancouver Island.
SEPTEMBER	17	00	22	57.	50°2N, 129°2W.	M = 4.0.	Queen Charlotte Sound.
SEPTEMBER	18	12	12	00.		M = 2.1.	57 miles from Port Hardy.
SEPTEMBER	20	17	15	22.	50°4N, 129°5W.	M = 3.3.	

DOMINION OBSERVATORIES

SEPTEMBER	21	01	59	51.	M = 2.1.	96 miles from Port Hardy.
SEPTEMBER	22	13	35	21.	50°5N, 129°6W.	M = 2.8. West of Vancouver Island.
SEPTEMBER	29	22	36	16.	M = 2.1.	174 miles from Victoria.
OCTOBER	4	07	14	53.	47°5N, 130°5W.	M = 4.4. Off coast of Washington, U. S. A.
OCTOBER	5	11	55	57.	48°1N, 128°1W.	M = 4.3. Off coast of Washington, U. S. A.
OCTOBER	5	18	40	46.	50°9N, 131°1W.	M = 3.9. West of Vancouver Island.
OCTOBER	6	21	27	28.	M = 2.3.	165 miles from Victoria.
OCTOBER	14	05	35	43.	48°7N, 124°6W.	M = 2.0. On southern Vancouver Island.
OCTOBER	17	15	51	13.	48°5N, 125°4W.	M = 1.6. West of Vancouver Island.
NOVEMBER	2	00	30	25.	M = 2.3.	32 miles from Victoria.
NOVEMBER	7	05	02	45.	M = 2.5.	113 miles from Port Hardy.
NOVEMBER	17	06	02	54.	M = 2.0.	71 miles from Victoria.
NOVEMBER	20	01	13	49.	53°4N, 130°6W.	M = 4.0. Near Queen Charlotte Islands.
DECEMBER	1	00	59	23.	M = 1.5.	84 miles from Victoria.
DECEMBER	2	06	52	20.	54°4N, 132°9W.	M = 4.7. Near Queen Charlotte Islands. Felt at Tlell.
DECEMBER	2	06	57	20.	54°4N, 132°9W.	M = 4.5. Near Queen Charlotte Islands. Felt at Tlell.
DECEMBER	3	21	31	01.	M = 2.1.	72 miles from Victoria.
DECEMBER	8	13	23	55.	49°3N, 125°9W.	M = 2.7. In Clayoquot Sound.

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- DECEMBER 15 15 44 22. 50°3N, 129°1W. M = 4.0. West of
Vancouver Island.
- DECEMBER 20 19 11 06. 49°6N, 124°2W. M = 2.4. Near Jervis
Inlet.
- DECEMBER 22 02 54 08. 48°5N, 120°1W. M = 3.7. In Washington,
U. S. A.
- DECEMBER 31 04 02 51. M = 2.8. 110 miles from Port Hardy.