



This document was produced
by scanning the original publication.

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

SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

1961-1

(Concluded)

Seismological Bulletin
October - December
1961

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1962

SEISMOLOGICAL BULLETIN - 1961

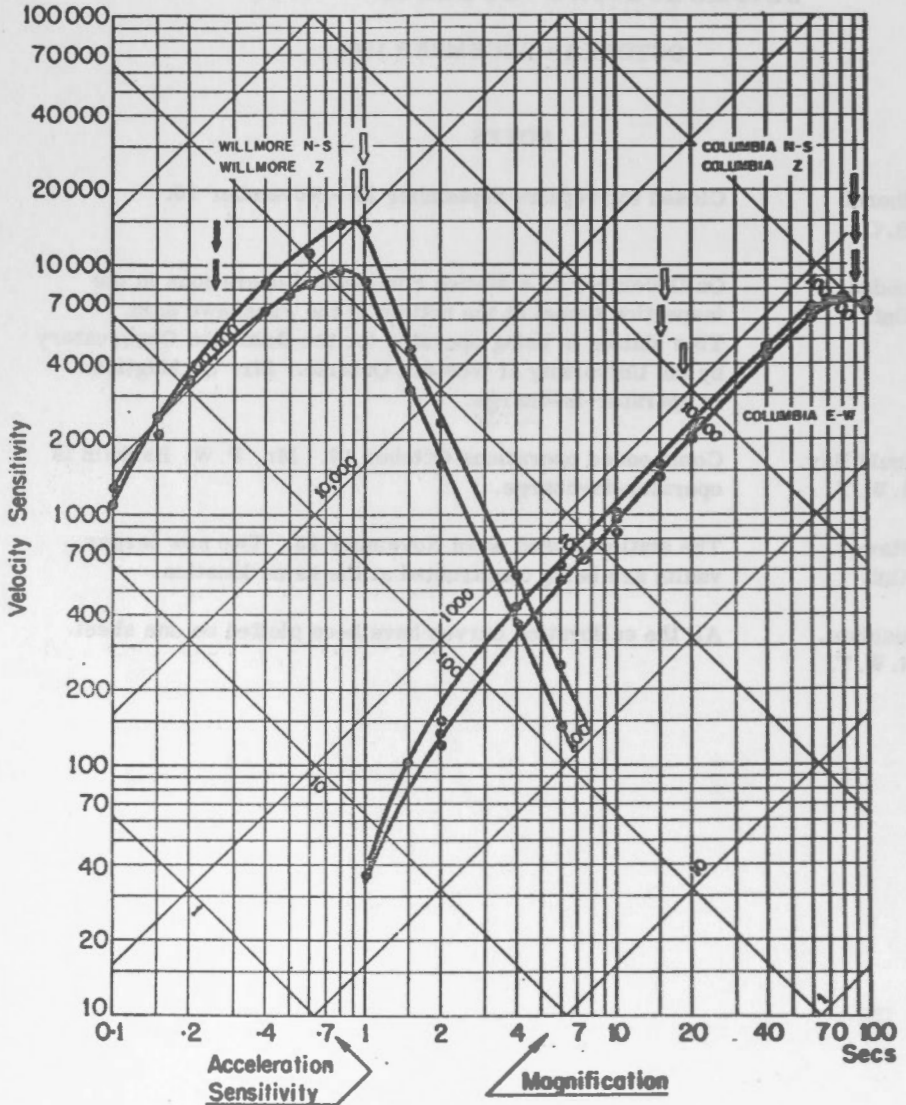
OCTOBER - DECEMBER 1961

NOTES

1. Alberni
B. C. Closed for repairs September 23 - November 10.
2. London,
Ont. On December 7, a station commenced operations in the inspection tunnel at the bottom of the Fanshawe dam. This station is being operated for the Dominion Observatory by the University of Western Ontario. Mr. C. Magliano is operator-in-charge.
3. Mould Bay,
N. W. T. Commenced operations October 18. Mr. P. W. Basham is operator-in-charge.
4. Ottawa,
Ont. The station closed down November 13. Two new larger vaults are being constructed at the same location.
5. Resolute,
N. W. T. All the calibration curves have been plotted on one sheet.

CALIBRATION CURVES

STATION: ALERT, N.W.T.



φ = 82°29'N λ = 62°24'W Altitude 65M.(C.a)

Foundation : Permanently frozen glacial debris overlying Palaeozoic limestone

$T_s \uparrow$

$T_g \uparrow$

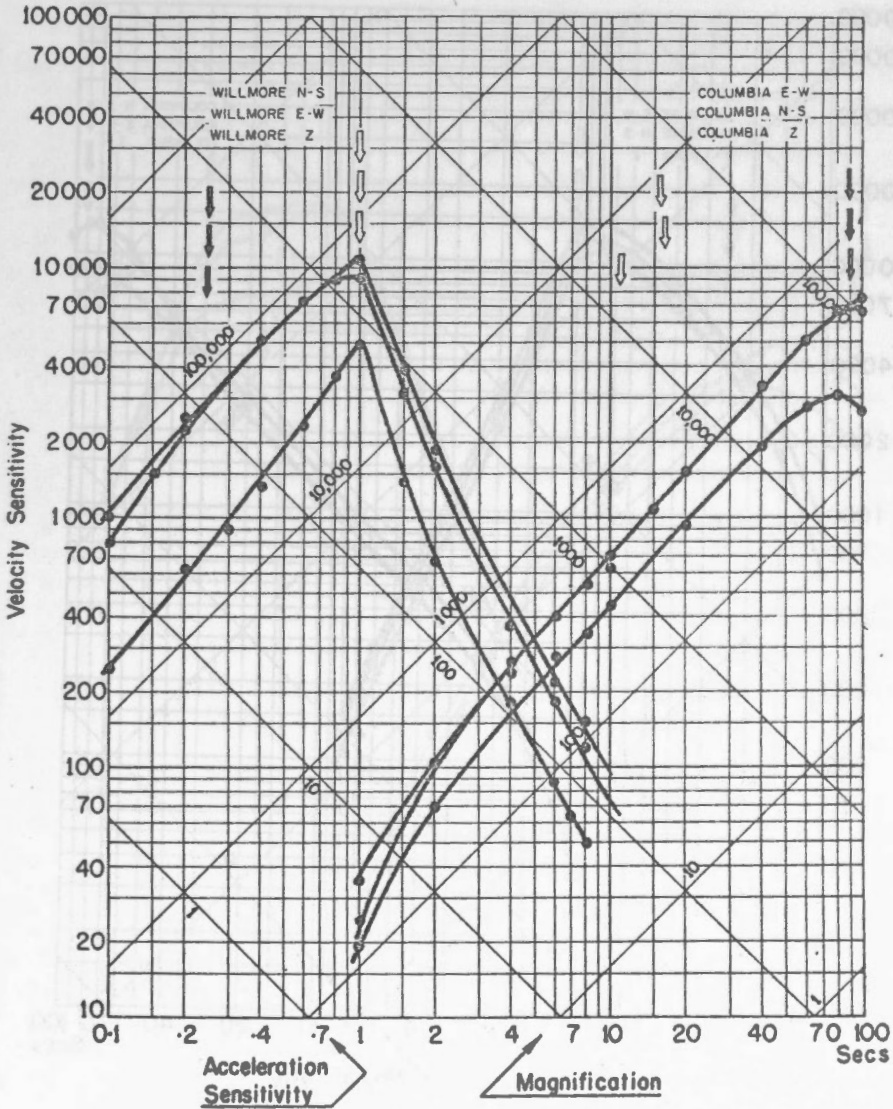
Date of Calibration: 1961

WILLMORE'S
S.P.Z. SEPT. 29
S.P.H.-N.S. SEPT. 29

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

CALIBRATION CURVES

STATION: LONDON, ONT.



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

Foundation: Devonian limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: 1961

WILLMORE'S

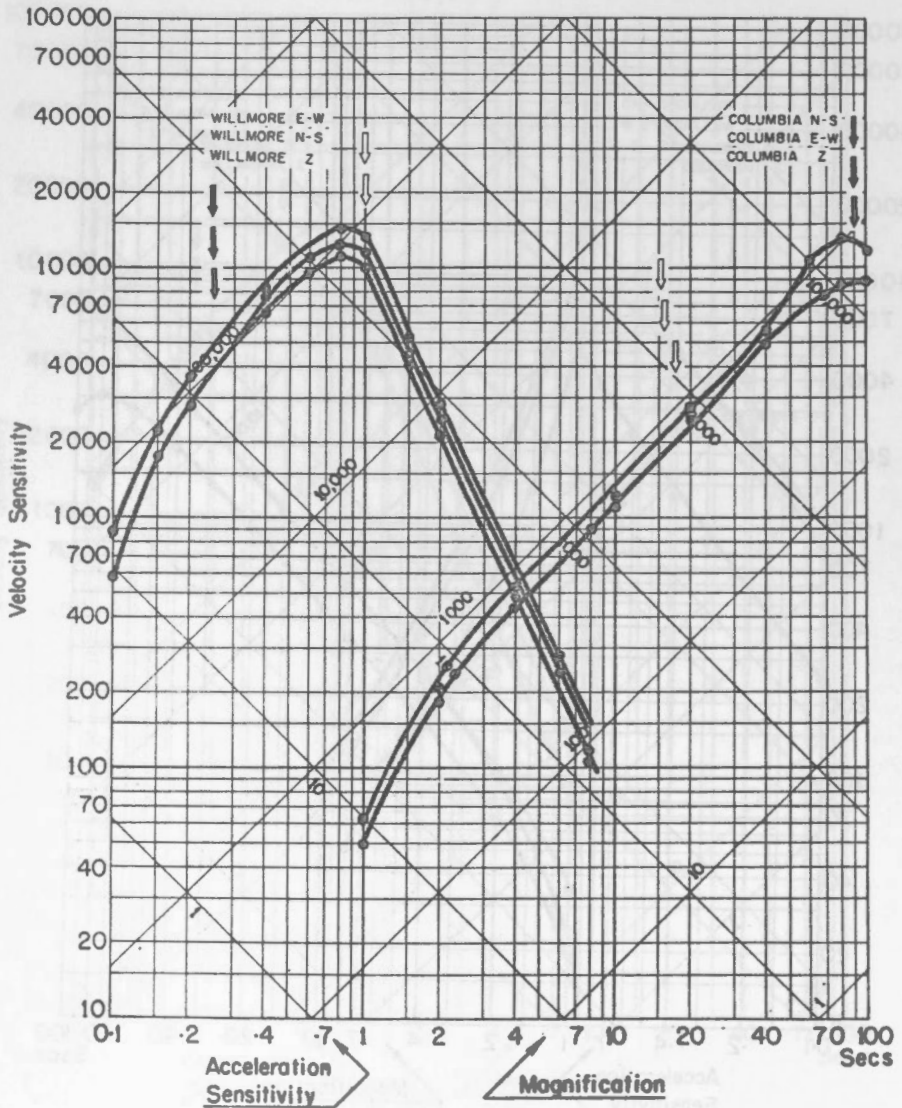
S.P.Z. DEC. 14
 S.P.H.-N.S. DEC. 11
 S.P.H.-E.W. DEC. 11

COLUMBIA'S

L.P.Z. DEC. 13
 L.P.H.-N.S. DEC. 12
 L.P.H.-E.W. DEC. 13

CALIBRATION CURVES

STATION: MOULD BAY, N.W.T.



$\phi = 76^{\circ}14'N$

$\lambda = 119^{\circ}20'W$

Altitude

Foundation : Regolith and Solifluxion deposits overlying Devonian sandstone,
(Permafrost)

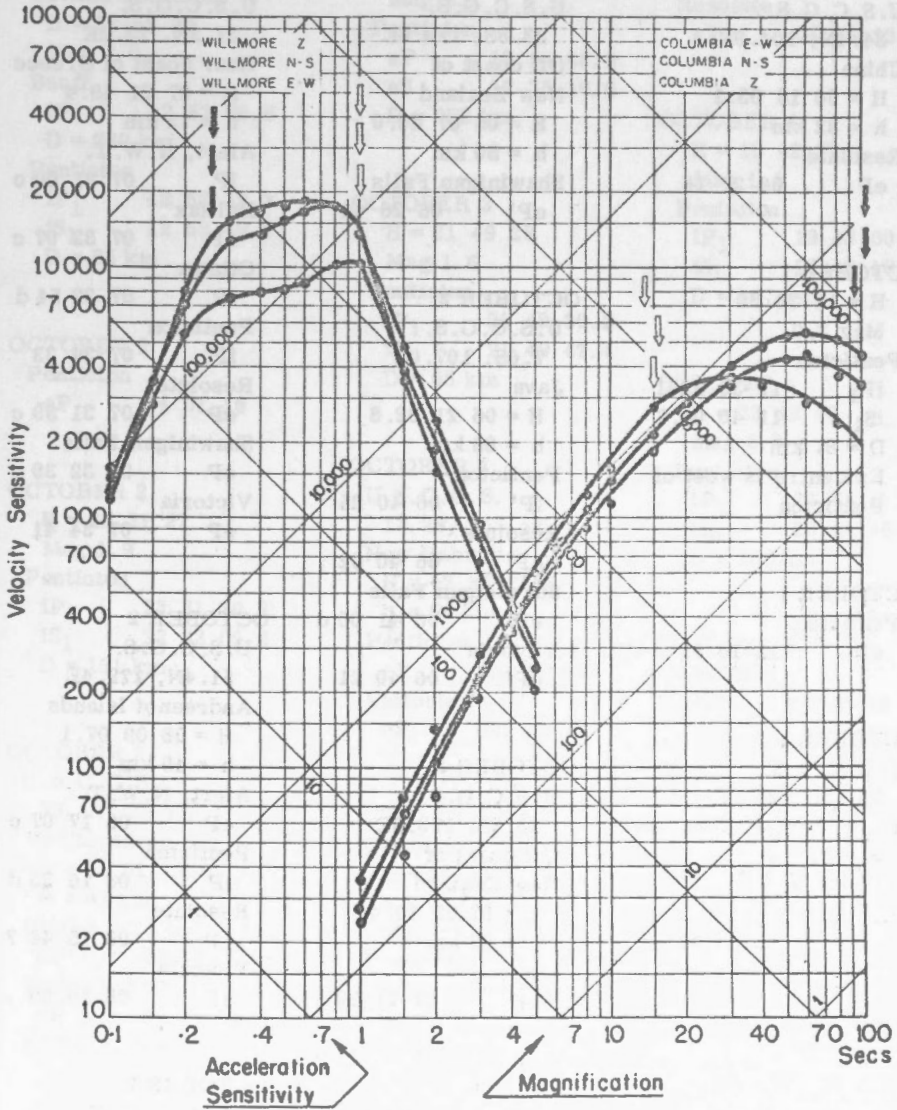
$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: At Ottawa
JUNE 1961

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: 1958-59

WILLMORE'S

S.P.Z. AUG. 18
 S.P.H.-N.S. AUG. 18
 S.P.H.-E.W. JAN. 27

COLUMBIAS

L.P.Z. SEPT. 17
 L.P.H.-N.S. SEPT. 15
 L.P.H.-E.W. SEPT. 15

DOMINION OBSERVATORIES

<p>OCTOBER 1 U. S. C. G. S. 34. 4N, 104. 9E China H = 00 16 03.1 h = 32 km Resolute eP 00 27 16</p>	<p>OCTOBER 2 U. S. C. G. S. 33. 8S, 179. 6E Off coast of New Zealand H = 06 07 40.0 h = 50 km Shawinigan Falls eP' 06 26 44</p>	<p>OCTOBER 2 U. S. C. G. S. 37. 2N, 22. 2E Near coast of Greece H = 07 21 49.4 h = 72 km Alert, N. W. T. iP 07 31 00 c Halifax eP 07 32 07 c Ottawa iP 07 32 54 d Penticton iP 07 34 33 Resolute eP 07 31 59 c Shawinigan Falls eP 07 32 39 c Victoria eP 07 34 41</p>
<p>OCTOBER 1 H = 11 39 39 Mag 2. 0 Penticton iP₁ 11 39 53.1 iS₁ 11 40 03.7 D = 87 km Epicentre is west of Penticton</p>	<p>OCTOBER 2 U. S. C. G. S. 7. 6S, 107. 0E Java H = 06 21 32.8 h = 85 km Penticton iP' 06 40 25 Resolute eP' 06 40 02 Shawinigan Falls eP' 06 41 00 d Victoria eP' 06 40 21</p>	
<p>OCTOBER 1 Penticton eP 12 16 02</p>		<p>OCTOBER 2 U. S. C. G. S. 51. 4N, 179. 4E Andreanof Islands H = 08 09 07.1 h = 45 km Alert, N. W. T. eP 08 17 07 c Penticton iP 08 16 25 d Resolute eP 08 15 44 ? Victoria eP 08 16 09</p>
<p>OCTOBER 1 U. S. C. G. S. 23. 9N, 122. 3E Near coast of Formosa H = 23 12 05.2 h = 25 km Penticton eP 23 24 59</p>	<p>OCTOBER 2 U. S. C. G. S. 33. 8S, 179. 5E Off coast of New Zealand H = 07 02 40.4 h = 57 km Ottawa eP' 07 21 29 Penticton eP 07 16 21 Resolute eP' 07 21 33 ? Shawinigan Falls eP' 07 21 35 Victoria eP 07 16 09</p>	
<p>OCTOBER 2 U. S. C. G. S. 33. 9S, 179. 6E Off coast of New Zealand H = 05 53 37.5 h = 30 km Shawinigan Falls eP' 06 12 43</p>		<p>OCTOBER 2 Alert, N. W. T. P 09 43 48 OCTOBER 2 Alert, N. W. T. i 09 48 01</p>

SEISMOLOGICAL BULLETIN - 1961

OCTOBER 2

49.7°N, 118.6°W
 British Columbia
 H = 12 52 26
 Mag 2.0
 Banff
 iP 12 53 06.6
 D = 280 km
 Penticton
 iP₁ 12 52 39.3
 iS₁ 12 52 49.7
 D = 85 km

OCTOBER 2

Penticton
 eP 14 01 10

OCTOBER 2

H = 23 31 27
 Mag 1.9
 Penticton
 iP₁ 23 31 50.8
 iS₁ 23 32 09.2
 D = 151 km

OCTOBER 3

U. S. C. G. S.
 35.4N, 22.7E
 Mediteranean Sea
 H = 01 01 13.0
 h = 44 km
 Ottawa
 eP 01 12 30
 Resolute
 eP 01 11 38
 Shawinigan Falls
 eP 01 12 17

OCTOBER 3

Resolute
 iP 06 49 05

OCTOBER 3

H = 17 34 05.5
 Mag 2.1
 Penticton
 eP 17 34 45.9
 eS 17 35 16.6
 D = 252 km

OCTOBER 3

H = 21 49 28
 Mag 1.6
 Penticton
 iP₁ 21 49 39.2
 iS₁ 21 49 47.4
 D = 68 km

OCTOBER 4

U. S. C. G. S.
 13.2S, 166.5E
 New Hebrides
 H = 02 23 23.5
 h = 66 km
 Penticton
 eP 02 36 14
 Victoria
 eP 02 36 03

OCTOBER 4

Canadian Arctic
 H = 04 33 42.3
 h = 20 km
 Mag 3.1
 Resolute
 eP_n 04 34 42.0
 iP₁ 04 34 53.7
 eS_n 04 35 25.2
 S₁ 04 35 35
 D = 444 km

OCTOBER 4

U. S. C. G. S.
 51.8N, 158.8E
 Kamchatka
 H = 04 30 42.7
 h = 25 km
 Alert, N. W. T.
 iP | 04 38 52 c

Penticton

eP 04 39 33
 Resolute
 eP 04 38 59

OCTOBER 4

H = 19 42 37
 Mag 1.9
 Penticton
 iP₁ 19 43 00.2
 iS₁ 19 43 18.1
 D = 147 km

OCTOBER 4

H = 23 43 42
 Mag 2.0
 Penticton
 iP_n 23 44 17.6
 iS_n 23 44 46.5
 D = 236 km

OCTOBER 5

Penticton
 eP 00 46 19

OCTOBER 5

H = 01 10 30
 Mag 2.6
 Penticton
 iP_n 01 11 12.0
 iS_n 01 11 47.3
 D = 288 km

OCTOBER 5

Canadian Arctic
 H = 06 33 39.5
 Mag 2.1
 Resolute
 iP₁ 06 33 50.0
 iS₁ 06 33 58.0
 D = 65.6 km

DOMINION OBSERVATORIES

OCTOBER 5	Resolute	OCTOBER 7
Penticton	iP 23 09 00	U. S. C. G. S.
eP 17 31 29	Victoria	21. 3S, 67.5W
Resolute	eP 23 09 38	Bolivia
eP 17 29 26		H = 08 15 08.0
S? 17 36 22		h = 149 km
Victoria	OCTOBER 6	Penticton
eP 17 31 11	U. S. C. G. S.	eP 08 27 25
	47.6N, 152.0E	
	Kurile Islands	
OCTOBER 5	H = 01 25 29.3	OCTOBER 7
U. S. C. G. S.	h = 31 km	U. S. C. G. S.
19.4S, 169.0E	Resolute	0.4S, 80.2W
Loyalty Islands	eP 01 34 25	Near coast of
H = 18 08 43.4		Ecuador
h = 58 km		H = 09 55 54.2
Penticton	OCTOBER 6	h = 48 km
iP 18 21 52 c	Penticton	Alert, N. W. T.
Victoria	eP 03 32 41	eP 10 08 16
eP 18 21 40		Penticton
		eP 10 05 58
		Resolute
		eP 10 07 34
OCTOBER 5	OCTOBER 6	
U. S. C. G. S.	U. S. C. G. S.	OCTOBER 7
24.0N, 121.9E	16.0N, 97.9W	U. S. C. G. S.
Near coast of Formosa	Near coast of Mexico	43.5N, 128.8W
H = 22 35 00.8	H = 08 02 19.1	Off coast of Oregon
h = 56 km	h = 32 km	H = 15 54 01.3
Banff	Penticton	h = 25 km
eP 22 47 56	eP 08 09 35	Banff
Penticton		eP 15 56 10
eP 22 47 50	OCTOBER 6	Halifax
Resolute	Penticton	eP 16 02 21
eP 22 46 59	eP 09 14 38	Penticton
Victoria		eP 15 55 25
eP 22 47 44	OCTOBER 6	Resolute
	U. S. C. G. S.	eP 16 00 12
OCTOBER 5	42.4N, 142.1E	Victoria
U. S. C. G. S.	Hokkaido Japan	eP 15 54 53.5
51.0N, 149.7E	H = 11 04 22.5	
Sea of Okhotsk	h = 115 km	
H = 23 01 07.3	Alert, N. W. T.	
h = 518 km	eP 11 13·41 d	
Penticton	Penticton	
iP 23 09 50 c	eP 11 14 44	
	Resolute	
	iP 11 14 00	

SEISMOLOGICAL BULLETIN - 1961

OCTOBER 7
 U.S.C.G.S.
 20.1S, 68.3W
 Chile-Bolivia border
 H = 17 26 48.8
 h = 179 km
 Penticton
 eP 17 38 55
 e 17 49 14

OCTOBER 7
 48°40'N±12',
 76°35'W±12'
 Quebec
 H = 22 36 50.9
 h = 8 km?
 Mag 3.8
 Montreal
 e 22 37 54
 iP₁ 22 37 58
 eS_n 22 38 31
 iS₁ 22 38 49
 D = 418 km
 Ottawa
 eP₁ 22 37 50
 i 22 38 13
 iS₁ 22 38 35
 D = 369 km
 Shawinigan Falls
 S₁ 22 38 41?
 D = 362 km

OCTOBER 8
 H = 00 01 27
 Mag 1.9
 Penticton
 iP₁ 00 01 51.1
 eS₁ 00 02 09.6
 D = 152 km

OCTOBER 8
 Resolute
 P 03 36 12

OCTOBER 8
 U.S.C.G.S.
 29.9S, 71.8W
 Near coast of
 Chile
 H = 12 41 35.1
 h = 65 km
 Halifax
 iP 12 53 09 d
 Penticton
 eP 12 54 29

OCTOBER 8
 Penticton
 eP 14 45 46

OCTOBER 8
 U.S.C.G.S.
 53.1N, 166.7W
 Fox Islands
 H = 21 56 44.0
 h = 48 km
 Alert, N.W.T.
 iP 22 04 14 c
 Ottawa
 eP 22 06 19
 Resolute
 eP 22 03 33?
 Penticton
 eP 22 02 45

OCTOBER 8
 U.S.C.G.S.
 1.6N, 127.3E
 Halmahera
 H = 23 41 32.2
 h = 102 km
 Alert, N.W.T.
 P 23 54 52
 Ottawa
 eP' 24 00 30
 Resolute
 iP 23 55 08

OCTOBER 9
 Penticton
 eP 00 22 15

OCTOBER 9
 U.S.C.G.S.
 16.1N, 94.0W
 Near coast of Mexico
 H = 03 16 58.2
 h = 154 km
 Banff
 eP 03 24 14
 Penticton
 eP 03 24 16
 Resolute
 eP 03 26 29?

OCTOBER 9
 Penticton
 eP 13 12 52.8

OCTOBER 9
 H = 23 52 49
 Mag 1.9
 Penticton
 iP_n 23 53 21.1
 eS_n 23 53 46.1
 D = 205 km

OCTOBER 10
 Penticton
 eP 00 44 51

OCTOBER 10
 Resolute
 eP 01 55 39

DOMINION OBSERVATORIES

<p>OCTOBER 10 U. S. C. G. S. 22. 9S, 180. 0 South of Fiji Islands H = 03 44 38. 3 h = 576 km Penticton iP 03 56 41</p>	<p>OCTOBER 11 Penticton eP 00 44 20</p> <p>OCTOBER 11 Alert, N. W. T. P 01 07 48?</p>	<p>OCTOBER 11 U. S. C. G. S. 29. 7N, 129. 7E Ryukyu Islands H = 17 20 15. 4 h = 52 km Resolute eP 17 31 37 c</p>
<p>OCTOBER 10 U. S. C. G. S. 5. 4S, 154. 3E Solomon Islands region H = 08 25 54. 6 h = 154 km Ottawa eP' 08 44 29</p>	<p>OCTOBER 11 U. S. C. G. S. 57. 5N, 154. 1W Kodiak Island H = 07 03 58. 6 h = 42 km Alert, N. W. T. iP 07 10 38 d Ottawa eP 07 12 31 Penticton iP 07 08 52 Resolute P 07 09 46 Victoria eP 07 08 34</p>	<p>OCTOBER 11 Canadian Arctic H = 19 47 17. 4? Mag 3. 1 Resolute iP₁ 19 47 37. 1 iS₁ 19 47 52? D = 123 km</p>
<p>OCTOBER 10 Penticton eP 10 40 29</p>	<p>OCTOBER 11 H = 22 20 55 Mag 2. 3 Penticton iP_n 22 21 41. 2 iS_n 22 22 21. 0 D = 326 km</p>	<p>OCTOBER 11 Canadian Arctic H = 23 58 46. 3 Mag 2. 3 Resolute iP₁ 23 59 06 iS₁ 23 59 21 D = 123 km</p>
<p>OCTOBER 10 U. S. C. G. S. 16. 1S, 176. 3W Fiji Islands region H = 18 44 28. 6 h = 361 km Banff eP 18 56 26 Penticton eP 18 56 10 Victoria eP 18 55 58</p>	<p>OCTOBER 11 U. S. C. G. S. 50. 4N, 77. 4E Kazaka, S. S. R. H = 07 40 04. 8 h = 31 km Penticton eP 07 52 11</p>	<p>OCTOBER 11 Canadian Arctic H = 23 58 46. 3 Mag 2. 3 Resolute iP₁ 23 59 06 iS₁ 23 59 21 D = 123 km</p>
<p>OCTOBER 10 Penticton eP 20 22 14</p>	<p>OCTOBER 11 U. S. C. G. S. 24. 5S, 179. 8E South of Fiji Islands H = 16 04 18. 0 h = 560 km Penticton eP 16 16 20</p>	<p>OCTOBER 12 Penticton eP 06 04 08</p>
<p>OCTOBER 10 Victoria iP 22 13 42 d</p>	<p>OCTOBER 12 Penticton eP 10 11 14</p>	<p>OCTOBER 12 Penticton eP 10 11 14</p>

SEISMOLOGICAL BULLETIN - 1961

OCTOBER 12

U. S. C. G. S.

19. 1N, 66. 0W

North of Puerto

Rico

H = 13 53 41.3

h = 63 km

Ottawa

eP 14 00 02

OCTOBER 12

Penticton

eP 18 03 38

OCTOBER 12

H = 19 27 43

Mag 1.9

Penticton

iP₁ 19 28 09.0

iS₁ 19 28 28.5

D = 160 km

OCTOBER 12

H = 23 50 54

Mag 2.2

Penticton

iP₁ 23 51 20.9

iS₁ 23 51 41.3

D = 167 km

OCTOBER 13

U. S. C. G. S.

6. 3N, 126. 8E

Off coast of

Mindanao,

Philippine Islands

H = 02 21 44.6

h = 60 km

Resolute

eP 02 35 07 d

OCTOBER 13

U. S. C. G. S.

55. 9S, 27. 2W

Sandwich Islands

H = 04 59 04.8

h = 67 km

Mag 5 1/4

Alert, N. W. T.

eP' 05 18 16

Penticton

eP' 05 18 07

Resolute

eP' 05 18 22

e 05 21 43

OCTOBER 13

U. S. C. G. S.

60. 3S, 34. 3W

Sandwich Islands

H = 10 46 47.7

h = 44 km

Mag 5 1/2

Alert, N. W. T.

eP' 11 06 12.7

Penticton

iP' 11 05 51

Resolute

eP' 11 06 06

OCTOBER 13

Penticton

eP 16 04 50

OCTOBER 13

H = 16 33 37

Mag 2.1

Penticton

eP₁ 16 34 06.4

eS₁ 16 34 28.8

D = 184 km

OCTOBER 13

U. S. C. G. S.

22. 0S, 176. 9W

Tonga Islands region

H = 17 28 21.5

h = 155 km

Banff

iP 17 41 06 d

Penticton

iP 17 40 52 d

Victoria

eP 17 40 40 d

OCTOBER 13

Penticton

eP 18 03 39

OCTOBER 13

Penticton

iP 18 59 05 c

OCTOBER 13

Penticton

eP 21 08 44

OCTOBER 13

H = 21 24 57

Mag 1.6

Penticton

eP₁ 21 25 24.2

eS₁ 21 25 44.6

D = 167 km

OCTOBER 14

Penticton

eP 00 15 06

OCTOBER 14

Penticton

eP 00 43 29

DOMINION OBSERVATORIES

OCTOBER 14
 U. S. C. G. S.
 33.3N, 142.2E
 South of Honshu
 Japan
 H = 12 30 45.3
 h = 47 km
 Penticton
 eP 12 41 57
 Resolute
 iP 12 41 29 c

OCTOBER 14
 Penticton
 eP 15 12 08

OCTOBER 14
 U. S. C. G. S.
 19.1S, 168.4E
 New Hebrides
 H = 16 13 48.7
 h = 28 km
 Penticton
 eP 16 27 00

OCTOBER 14
 Canadian Arctic
 H = 18 18 20
 Mag 4.8
 Resolute
 eP_n 18 20 53
 iS_n 18 22 42.5
 eLg 18 23 40
 D = 1200 km

OCTOBER 14
 H = 19 57 45
 Mag 1.5
 Penticton
 eP₁ 19 58 07.0
 eS₁ 19 58 24.0
 D = 139 km

OCTOBER 14
 U. S. C. G. S.
 0.9S, 80.3W
 Near coast of
 Ecuador
 H = 21 18 03.4
 h = 25 km
 Penticton
 eP 21 28 18

OCTOBER 14
 U. S. C. G. S.
 51.1N, 159.1E
 Kamchatka
 H = 21 58 57.4
 h = 80 km
 Alert, N. W. T.
 eP 22 07 07 d
 Halifax
 eP 22 10 46.5
 Penticton
 eP 22 07 40
 Resolute
 eP 22 07 11
 i 22 13 49

OCTOBER 15
 Penticton
 eP 01 42 51

OCTOBER 15
 47°12'N, 123°14'W
 Washington, U. S. A.
 H = 04 53 13
 Mag 2.7
 Penticton
 eP_n 04 54 03.8
 eS_n 04 54 42.3
 D = 360 km
 Victoria
 eP₁ 04 53 36.7
 eS₁ 04 53 54.6
 D = 147 km

OCTOBER 15
 Penticton
 eP 07 17 37

OCTOBER 15
 U. S. C. G. S.
 4.1S, 102.3E
 Near coast of
 Sumatra
 H = 17 07 55.6
 h = 66 km
 Penticton
 iP' 17 26 47

OCTOBER 16
 Penticton
 eP 00 49 28

OCTOBER 16
 Penticton
 iP 01 16 02
 Resolute
 eP 01 15 30

OCTOBER 16
 U. S. C. G. S.
 19.9S, 176.1W
 Tonga Islands region
 H = 03 27 44.1
 h = 224 km
 Penticton
 eP 03 39 56

OCTOBER 16
 Resolute
 eP 07 07 40 d

OCTOBER 16
 Penticton
 eP 09 38 15

SEISMOLOGICAL BULLETIN - 1961

OCTOBER 16

H = 12 34 46

Mag 2.5

Victoria

iP₁ 12 35 00.9

iS₁ 12 35 12.2

D = 92 km

OCTOBER 16

Canadian Arctic

H = 17 54 12

h = 17 km

Mag 4.0

Resolute

eP_n 17 55 48

iP₁ 17 56 11

iS_n 17 56 58

iS₁ 17 57 33

D = 740 km

OCTOBER 17

U. S. C. G. S.

55.8S, 0.5E

Bouvet Islands region

H = 04 27 33.5

h = 25 km

Resolute

eP' 04 47 05?

Victoria

eP' 04 47 07

OCTOBER 17

U. S. C. G. S.

12.1N, 143.4E

South of Guam

H = 11 02 32.7

h = 25 km

Resolute

eP 11 15 17?

OCTOBER 17

H = 19 38 50

Mag 1.8

Penticton

iP₁ 19 39 16.3

iS₁ 19 39 36.4

D = 165 km

OCTOBER 17

Penticton

eP 22 40 41

OCTOBER 18

U. S. C. G. S.

29.9S, 177.6W

Kermadec Islands

H = 02 49 59.6

h = 65 km

Resolute

eP' 03 08 36?

OCTOBER 18

U. S. C. G. S.

15.1S, 173.9W

Tonga Islands

H = 06 38 43.8

h = 91 km

Penticton

eP 06 50 45

OCTOBER 18

U. S. C. G. S.

17.4S, 178.6W

Fiji Islands region

H = 07 31 39.3

h = 576 km

Penticton

eP 07 43 17

OCTOBER 18

U. S. C. G. S.

53.6N, 165.6W

Fox Islands

H = 10 44 10.7

h = 47 km

Penticton

eP 10 50 06

Resolute

eP 10 50 55

OCTOBER 18

48.9°N, 122.3°W

Washington, U. S. A.

H = 13 45 59

Mag 2.2

Penticton

iP_n 13 46 42.5

D = 187 km

Victoria

iP₁ 13 46 11.6

iS₁ 13 46 21.5

D = 93 km

OCTOBER 18

U. S. C. G. S.

23.2N, 94.7E

Burma

H = 15 31 19.2

h = 105 km

Resolute

eP 15 43 34 d

OCTOBER 18

U. S. C. G. S.

36.7S, 72.6W

Near coast of

Southern Chile

H = 16 52 00.2

h = 67 km

Mag 6 1/2

Banff

eP 17 05 19

Halifax

eP 17 04 11.5 c

Ottawa

eP 17 04 13 c

DOMINION OBSERVATORIES

Penticton eP 17 05 15 Victoria eP 17 05 21	OCTOBER 18 H = 23 56 59 Mag 1.9 Penticton eP ₁ 23 57 27.1 eS ₁ 23 57 48.0 D = 171 km	OCTOBER 19 U. S. C. G. S. 35.8N, 117.9W Southern California H = 05 09 44.0 h = 22 km Mag 5.3 Banff eP 05 13 27 Mould Bay P 05 17 26 Penticton eP 05 13 01 Resolute eP 05 17 18? Victoria eP 05 12 57
OCTOBER 18 Resolute eP 18 10 49	OCTOBER 19 Penticton eP 00 11 48.1	
OCTOBER 18 U. S. C. G. S. 36.9S, 73.5W Near coast of Central Chile H = 18 10 30.4 h = 55 km Halifax eP 18 22 46	OCTOBER 19 Penticton eP 00 16 44	
OCTOBER 18 H = 21 32 57 Mag 2.0 Penticton iP 21 33 21.7 iS 21 33 40.2 D = 152 km	OCTOBER 19 Penticton eP 00 26 07	OCTOBER 19 Mould Bay P 06 24 58
OCTOBER 18 H = 21 47 23 Mag 2.2 Penticton iP ₁ 21 47 48.3 iS ₁ 21 48 07.7 D = 159 km	OCTOBER 19 Mould Bay P 03 06 38	OCTOBER 19 Penticton eP 09 29 28
OCTOBER 18 Penticton eP 23 05 25	OCTOBER 19 Penticton eP 03 07 57 Victoria eP 03 07 06	OCTOBER 19 U. S. C. G. S. 55.2S, 146.0E West of Macquarie Islands H = 09 12 28.5 h = 86 km Mould Bay P' 09 32 01 Ottawa eP' 09 32 18 Resolute eP' 09 32 13 d?
	OCTOBER 19 Penticton iP 03 38 23	
	OCTOBER 19 Penticton eP 03 56 08 Resolute eP? 03 58 17	OCTOBER 19 Mould Bay iP 10 06 06

SEISMOLOGICAL BULLETIN - 1961

OCTOBER 19

U. S. C. G. S.
43. 0N, 139. 2E

Sea of Japan
H = 10 56 53.6
h = 242 km

Penticton
eP 11 07 12

Resolute
eP 11 06 18

OCTOBER 19

Penticton
eP 11 28 47

OCTOBER 19

U. S. C. G. S.
37. 1S, 69. 8W

Argentina
H = 11 19 19.6
h = 155 km
Mag 6 1/4

Halifax
iP 11 31 25 d

Ottawa
eP 11 31 26 c

Penticton
eP 11 32 31

OCTOBER 19

Penticton
eP 11 49 16

OCTOBER 19

Penticton
eP 11 59 56

OCTOBER 19

Penticton
eP 18 19 14

Resolute
eP 18 19 23

OCTOBER 19

H = 19 03 46
Mag 1.7

Penticton
iP₁ 19 04 11.2
iS₁ 19 04 30.6
D = 159 km

OCTOBER 19

H = 19 34 43
Mag 2.0

Penticton
iP₁ 19 35 05.2
iS₁ 19 35 22.3
D = 140 km

OCTOBER 19

U. S. C. G. S.
55. 3S, 146. 4E
South of Australia
H = 19 26 32.2
h = 50 km

Ottawa
eP' 19 46 17

Penticton
eP' 19 45 38

OCTOBER 19

Penticton
eP 20 01 37

OCTOBER 19

U. S. C. G. S.
17. 6S, 174. 0W
Tonga Islands
H = 20 24 41.9
h = 25 km

Penticton
eP 20 37 04

OCTOBER 19

47. 5°N, 122. 9°W
Washington, U. S. A.

H = 20 37 49.6
Mag 3.0
Penticton
iP_n 20 38 35.0
D = 318 km

Victoria
iP₁ 20 38 08.3
iS₁ 20 38 22.2
D = 117 km

OCTOBER 19

Resolute
eP 20 46 18 c?

OCTOBER 19

Penticton
eP 22 12 55

OCTOBER 20

U. S. C. G. S.
51. 8N, 176. 0W
Andreanof Islands
H = 05 40 44.1
h = 36 km

Penticton
iP 05 47 37 d

OCTOBER 20

Penticton
eP 10 21 06

OCTOBER 20

U. S. C. G. S.
33. 6N, 118. 0W
California
H = 19 49 50.5
h = 17 km
Mag 4.6

Penticton
eP 19 53 37

DOMINION OBSERVATORIES

<p>OCTOBER 20 U.S.C.G.S. 33.7N, 118.0W California H = 20 07 14.8 h = 20 km Mag 4.2 Penticton eP 20 11 05</p>	<p>OCTOBER 21 U.S.C.G.S. 10.8S, 166.0E Santa Cruz Islands H = 17 34 36.8 h = 192 km Penticton iP 17 47 07 c</p>	<p>OCTOBER 22 H = 10 36 58 Mag 2.1 Penticton iP 10 37 33.2 D = 230 km Victoria iP₁ 10 37 10.8 iS₁ 10 37 20.2 D = 77 km</p>
<p>OCTOBER 20 H = 23 53 51 Mag 1.9 Penticton iP₁ 23 54 16.9 iS₁ 23 54 37.0 D = 165 km</p>	<p>OCTOBER 21 U.S.C.G.S. 51.6N, 176.0W Andreanof Islands H = 22 21 52.2 Penticton iP 22 28 48</p>	<p>OCTOBER 22 U.S.C.G.S. 2.2N, 95.9W West of Galapagos Islands H = 13 06 31.1 h = 65 km Penticton eP 13 17 07</p>
<p>OCTOBER 21 Penticton eP 00 41 00</p>	<p>OCTOBER 22 Penticton eP 00 09 28</p>	
<p>OCTOBER 21 U.S.C.G.S. 18.0S, 178.5W Fiji Islands H = 11 43 41.3 h = 618 km Banff eP 11 55 34 c Penticton iP 11 55 17 c Victoria eP 11 55 05</p>	<p>OCTOBER 22 U.S.C.G.S. 0.2S, 94.6W West of Galapagos Islands H = 07 01 42.1 h = 60 km Penticton iP 07 11 05 d</p>	<p>OCTOBER 22 Penticton iP 13 23 33 OCTOBER 22 Penticton eP 14 37 57</p>
<p>OCTOBER 21 Resolute eP 17 12 50 d?</p>	<p>OCTOBER 22 U.S.C.G.S. 19.9S, 172.4E New Hebrides Islands H = 09 50 43.6 h = 181 km Mag 5 1/2 Penticton iP 10 03 31 Victoria eP 10 03 19</p>	<p>OCTOBER 22 U.S.C.G.S. 17.6S, 179.6W Fiji Islands H = 14 40 56.6 h = 549 km Penticton iP 14 52 40 c OCTOBER 22 U.S.C.G.S. 10.5N, 86.6W Off coast of Costa Rica H = 15 13 32.3 h = 51 km Penticton eP 15 22 07</p>

SEISMOLOGICAL BULLETIN - 1961

Resolute eP 15 24 04	Resolute eP 08 01 42	OCTOBER 24 U.S.C.G.S. 42.9N, 144.6E Hokkaido Japan H = 00 18 18.6 h = 14 km Resolute eP 00 28 01
OCTOBER 22 Resolute eP 19 11 17 ?	OCTOBER 23 Alert, N.W.T. iP 08 36 05 d S 08 39 56 ? d L 08 41 38 ? d	
OCTOBER 23 U.S.C.G.S. 60.4S, 33.4W Sandwich Islands H = 00 08 33.3 h = 25 km Alert, N.W.T. eP' 00 28 03 d Penticton eP' 00 27 43 Resolute eP' 00 28 04 c	OCTOBER 23 Alert, N.W.T. iP 10 36 04 d Penticton iP 10 40 59 d Resolute eP 10 37 31 d	OCTOBER 24 U.S.C.G.S. 45.0N, 146.4E Off coast of Hokkaido Japan H = 07 25 19.9 h = 82 km Alert, N.W.T. eP 07 34 04 c Banff iP ₂ 07 35 26 c Penticton iP 07 35 19 c Resolute eP 07 34 36 Victoria eP 07 35 07
OCTOBER 23 U.S.C.G.S. 28.9S, 70.5W Chile H = 01 24 00.6 h = 125 km Penticton iP 01 36 48 d	OCTOBER 23 U.S.C.G.S. 3.5N, 126.4E Molucca Passage H = 14 39 33.5 h = 25 km Alert, N.W.T. eP 14 52 54 d Penticton eP 14 53 35 Resolute eP 14 53 11	
OCTOBER 23 Penticton eP 03 06 48	OCTOBER 23 U.S.C.G.S. 3.5N, 126.6E Molucca Passage H = 14 52 28.2 h = 32 km Resolute eP 15 06 06	OCTOBER 24 U.S.C.G.S. 16.5S, 178.3E Fiji Islands H = 07 36 17.1 h = 40 km Penticton iP 07 48 53
OCTOBER 23 Penticton eP 04 33 32		OCTOBER 24 Penticton eP 08 10 48
OCTOBER 23 U.S.C.G.S. 54.0N, 163.8W Unimak Island H = 07 54 58.9 h = 35 km Penticton eP 08 00 54	OCTOBER 23 U.S.C.G.S. 16.8S, 173.6W Tonga Islands H = 17 11 53.3 h = 49 km Penticton iP 17 24 10	OCTOBER 24 Penticton eP 17 30 44

DOMINION OBSERVATORIES

OCTOBER 24
Penticton
eP 18 23 41
Resolute
eP 18 23 53?

OCTOBER 24
Penticton
eP 18 27 03

OCTOBER 24
Penticton
eP 21 36 21

OCTOBER 24
Penticton
eP 21 51 18

OCTOBER 24
Penticton
eP 22 59 46

OCTOBER 24
Penticton
eP 23 15 36

OCTOBER 24
Penticton
eP 23 23 30

OCTOBER 25
Penticton
eP 23 49 43

OCTOBER 25
Penticton
eP 04 23 17

OCTOBER 25
Penticton
eP 05 53 47

OCTOBER 25
Penticton
iP 06 54 09 c

OCTOBER 25
U. S. C. G. S.
9. 7S, 78. 6W
Off coast of Peru
H = 08 54 36. 6
h = 110 km
Alert, N. W. T.
iP 09 07 36 d
Banff
eP 09 05 28
Ottawa
eP 09 03 57
Penticton
iP 09 05 32
Resolute
iP 09 07 00

OCTOBER 25
Penticton
eP 10 33 13

OCTOBER 25
Penticton
eP 12 22 04

OCTOBER 25
U. S. C. G. S.
20. 3S, 174. 1W
Tonga Islands
H = 14 20 20. 8
h = 25 km
Penticton
eP 14 32 45

OCTOBER 25
Penticton
eP 18 40 17

OCTOBER 25
H = 20 12 16
Mag 1. 4
Penticton
iP₁ 20 12 28. 7
iS₁ 20 12 38. 4
D = 80 km

OCTOBER 26
U. S. C. G. S.
3. 1S, 147. 4E
Bismark Sea
H = 00 38 20. 3
h = 14 km
Penticton
eP 00 51 39
Resolute
eP 00 51 48?

OCTOBER 26
Penticton
eP 09 12 34

OCTOBER 26
U. S. C. G. S.
0. 4S, 98. 6E
Off coast of Sumatra
H = 15 27 02. 0
h = 18 km
Mag 6
Penticton
eP' 15 45 55
Resolute
eP? 15 41 15?

OCTOBER 26
Resolute
eP 17 11 49

SEISMOLOGICAL BULLETIN - 1961

OCTOBER 26

U.S.C.G.S.
18.0N, 100.0W
Mexico

H = 17 22 18.4
h = 43 km

Alert, N.W.T.

eP 17 33 01

Ottawa

eP 17 29 01

Penticton

eP 17 29 08

Resolute

eP 17 31 57 d?

OCTOBER 26

Ottawa

eP 17 33 22 d

Penticton

eP 17 33 28

OCTOBER 26

Penticton

eP 18 36 25

OCTOBER 26

U.S.C.G.S.

0.3S, 98.5E

Off coast of Sumatra

H = 19 28 37.3

h = 58 km

Penticton

eP' 19 47 27

OCTOBER 26

Penticton

eP 20 25 40

OCTOBER 26

U.S.C.G.S.

6.9N, 73.1W

Colombia

H = 21 56 18.2

h = 167 km

Penticton

eP 22 05 51

Resolute

eP 22 07 05 c?

OCTOBER 26

Penticton

eP 23 43 02

OCTOBER 27

H = 00 55 20

Mag 2.0

Penticton

eP₁ 00 55 44.1

eS₁ 00 56 02.4

D = 150 km

OCTOBER 27

Penticton

eP 03 43 44

OCTOBER 27

Penticton

eP 12 20 38

OCTOBER 27

H = 19 52 11

Mag 1.4

Penticton

eP₁ 19 52 21.7

eS₁ 19 52 30.0

D = 68 km

OCTOBER 27

H = 19 55 03

Mag 2.2

Penticton

iP₁ 19 55 26.9

iS₁ 19 55 44.8

D = 147 km

OCTOBER 27

Penticton

eP 19 58 15

OCTOBER 27

H = 23 37 46

Mag 2.0

Penticton

eP_n 23 38 16.7

iS_n 23 38 40.5

D = 195 km

OCTOBER 27

Resolute

eP 19 58 10?

OCTOBER 28

H = 00 14 34

Mag 2.1

Penticton

iP_n 00 15 04.9

iS_n 00 15 29.2

D = 198 km

OCTOBER 28

H = 00 17 37

Mag 1.8

Penticton

eP₁ 00 18 06.9

eS₁ 00 18 30.4

D = 193 km

DOMINION OBSERVATORIES

OCTOBER 28
 U. S. C. G. S.
 17. 7S, 178. 9W
 Fiji Islands
 H = 01 34 59. 5
 h = 605 km
 Penticton
 eP 01 46 35

OCTOBER 28
 U. S. C. G. S.
 9. 3S, 80. 0W
 Off coast of Peru
 H = 05 30 04. 5
 h = 33 km
 Penticton
 eP 05 41 05

OCTOBER 28
 U. S. C. G. S.
 11. 6S, 166. 4E
 Santa Cruz Islands
 H = 06 00 33. 7
 h = 34 km
 Penticton
 eP 06 13 23

OCTOBER 28
 U. S. C. G. S.
 18. 9 S, 178. 1W
 Fiji Islands
 H = 06 48 08. 8
 h = 631 km
 Penticton
 eP 06 59 46

OCTOBER 28
 Penticton
 eP 10 14 39

OCTOBER 28
 U. S. C. G. S.
 33. 7N, 48. 5E
 Iran
 H = 10 46 40. 2
 h = 34 km
 Alert, N. W. T.
 iP 10 56 41 c

Halifax
 eP 10 58 52. 5 c
 Ottawa
 eP 10 59 21
 Resolute
 eP 10 57 45
 Shawinigan Falls
 eP 10 59 11

OCTOBER 28
 U. S. C. G. S.
 38. 7S, 73. 3W
 Near coast of Chile
 H = 14 49 13. 6
 h = 43 km
 Halifax
 eP 15 01 40. 5
 Ottawa
 eP 15 01 40
 Shawinigan Falls
 eP 15 01 47

OCTOBER 28
 Penticton
 eP 18 31 09

OCTOBER 28
 Resolute
 eP 21 37 09

OCTOBER 28
 H = 22 37 18
 Mag 1. 6
 Penticton
 iP₁ 22 37 37. 9
 iS₁ 22 37 52. 9
 D = 123 km

OCTOBER 28
 Penticton
 eP 22 56 48
 Resolute
 eP 22 54 48
 SS? 23 10 07
 G? 23 18 32

OCTOBER 29
 Penticton
 eP 00 09 00

OCTOBER 29
 Penticton
 eP 08 46 57

OCTOBER 29
 U. S. C. G. S.
 49. 0°N, 128. 7°W
 West of Vancouver
 Island
 H = 09 12 15. 7
 h = 16 km
 Mag 4. 8

Banff
 eP 09 14 25 c

Halifax
 eP 09 20 23 d

Ottawa
 eP 09 19 14

Penticton
 eP_n 09 13 43. 9 c

Resolute
 eP 09 18 20 c

P_CP 09 20 39

S 09 23 18

S_CS 09 27 34

SKP 09 43 09

SEISMOLOGICAL BULLETIN - 1961

Shawinigan Falls eP 09 19 27	OCTOBER 29 U. S. C. G. S. 48.7N, 128.3W Vancouver Island region H = 14 47 18.3 h = 73 km Mag 3.8	OCTOBER 30 U. S. C. G. S. 42.5N, 126.6W Off coast of Oregon H = 01 44 53.2 h = 50 km
Victoria eP _n 09 13 09.0 c	Banff eP 14 49 21	Banff eP 01 47 38
OCTOBER 29 Penticton eP 10 03 45	Penticton eP 14 48 41	Penticton eP 01 46 53
OCTOBER 29 Penticton eP 10 18 05	Victoria eP 14 48 06.1	Resolute eP 01 51 45
OCTOBER 29 Aftershock of Vancouver Island Quake H = 11 10 22 ?	OCTOBER 29 Vancouver Island region Penticton eP 18 28 47.1	OCTOBER 30 U. S. C. G. S. 42.3N, 126.7W Off coast of Oregon H = 02 16 32.7 h = 36 km
Penticton eP 11 11 53	Victoria eP 18 28 06.3	Banff eP 02 19 19
Victoria eP 11 11 13.2	OCTOBER 29 Vancouver Island region Penticton eP 19 30 06	Halifax iP 02 24 47 d
OCTOBER 29 Aftershock of previous H = 11 17 00?	Victoria eP 19 29 30.3	Ottawa eP 02 23 36
Penticton eP 11 18 24	OCTOBER 29 Resolute eP 19 37 37	Penticton eP 02 18 34
Victoria eP 11 17 47.2	OCTOBER 29 Resolute eP 19 37 37	Resolute eP 02 23 28
OCTOBER 29 U. S. C. G. S. 49.4N, 127.6W Vancouver Island region H = 14 00 12.0 h = 56 km Mag 3.2	OCTOBER 29 Penticton eP 19 59 42	Shawinigan Falls eP 02 23 51
Penticton eP 14 01 33	OCTOBER 29 Penticton eP 22 26 21	Victoria eP 02 18 08.4
Victoria eP 14 00 57.7	OCTOBER 30 U. S. C. G. S. 50.8N, 158.3E Off coast of Kamchatka H = 04 47 59.8 h = 32 km	
		Penticton eP 04 56 55
		Resolute iP 04 56 23

DOMINION OBSERVATORIES

OCTOBER 30
 Novaya Zemlya
 Nuclear blast
 Alert, N. W. T.
 iP 08 38 12 c
 S 08 42 09?
 L 08 43 40?
 Banff
 eP 08 43 02.0
 Ottawa
 eP 08 43 12
 Penticton
 eP 08 43 16
 Resolute
 P 08 39 44
 Victoria
 eP 08 43 22.4 c

OCTOBER 30
 Banff
 eP 16 03 52
 Penticton
 eP 16 03 40
 Resolute
 eP 16 04 08?
 i 16 06 19
 Victoria
 eP 16 03 24

OCTOBER 30
 U. S. C. G. S.
 28. 5S, 178. 1W
 Kermadec Islands
 H = 17 35 03. 3
 h = 219 km
 Penticton
 eP 17 47 55
 Resolute
 eP' 17 53 17?

OCTOBER 30
 Penticton
 eP 19 13 01

OCTOBER 30
 U. S. C. G. S.
 28. 9N, 141. 8E
 South of Honshu
 Japan
 H = 21 15 35. 2
 h = 31 km
 Alert, N. W. T.
 iP 21 26 36 c
 Banff
 eP 21 27 20
 Penticton
 eP 21 27 09
 Resolute
 eP 21 26 49
 S 21 35 58
 Victoria
 eP 21 26 58

OCTOBER 30
 Penticton
 eP 23 06 01
 Resolute
 eP 23 07 59?

OCTOBER 31
 U. S. C. G. S.
 51. 9N, 176. 1E
 Rat Islands
 H = 01 43 53. 3
 h = 35 km
 Alert, N. W. T.
 iP 01 50 54
 Halifax
 eP 01 55 11. 5
 Mould Bay
 iP 01 50 41
 Ottawa
 eP 01 54 33
 Penticton
 eP 01 51 26
 Resolute
 eP 01 51 34
 Victoria
 eP 01 51 12

OCTOBER 31
 48. 4°N, 120. 0°W
 Washington, U. S. A.
 H = 03 34 30. 3
 Mag 3. 0
 Penticton
 iP 03 34 48. 1
 iS 03 35 01. 7
 D = 111 km
 Victoria
 eP_n 03 35 08. 5
 D = 258 km

OCTOBER 31
 Resolute
 eP 06 46 19

OCTOBER 31
 U. S. C. G. S.
 22. 2N, 143. 0E
 Mariana Island region
 H = 08 39 09. 2
 h = 264 km
 Mould Bay
 P 08 49 59
 Penticton
 eP 08 50 43
 e 08 51 58
 Resolute
 eP 08 50 35

OCTOBER 31
 Mould Bay
 P 13 18 30

OCTOBER 31
 Penticton
 eP 14 38 21

SEISMOLOGICAL BULLETIN - 1961

OCTOBER 31

Canadian Arctic
H = 18 18 08.6
Mag 1.6
Resolute
eP₁ 18 18 44
eS₁ 18 19 11
D = 221 km

OCTOBER 31

Penticton
eP. 19 28 44

OCTOBER 31

Mould Bay
P 20 32 14
Resolute
eP 20 33 06
i 20 35 06

OCTOBER 31

Penticton
iP 21 40 25

OCTOBER 31

H = 23 24 44
Mag 2.2
Penticton
iP₁ 23 25 07.6
iS₁ 23 25 25.4
D = 146 km

OCTOBER 31

U.S.C.G.S.
43.6N, 146.5E
Off coast of
Hokkaido Japan
H = 23 58 50.7
h = 15 km
Penticton
eP 24 09 00
Resolute
iP 24 08 26

OCTOBER 31

46°06'N, 64°47'W
(Moncton, N.B.)
H = 23 50 -
Mag less than 1.7

NOVEMBER 1

46°55'N±15'
79°15'W±15'

Ontario

H = 03 41 21
Mag 2.9

Ottawa

P₁ 03 42 12.4
S_n 03 42 37.5
S₁ 03 42 52
D = 125 km

NOVEMBER 1

Penticton
iP 06 06 06 c

NOVEMBER 1

Penticton
iP 10 01 52

NOVEMBER 1

U.S.C.G.S.
18.0S, 178.5E
Fiji Islands region
H = 10 42 21.1
h = 631 km
Penticton
iP 10 53 56

NOVEMBER 1

Resolute
eP 18 31 02

NOVEMBER 1

Canadian Arctic
H = 21 hrs. approx.
Mag 2.4
Alert
P₁ 21 hrs.
S₁ - P₁ = 28 sec.
D = 230 km

NOVEMBER 1

H = 21 24 36
Mag 2.3
Penticton
iP_n 21 25 14.1
iS_n 21 25 45.2
D = 254 km

NOVEMBER 1

H = 22 15 25
Mag 1.7
Penticton
eP₁ 22 15 41.5
eS₁ 22 15 53.9
D = 102 km

NOVEMBER 2

Resolute
eP 04 33 21

NOVEMBER 2

U.S.C.G.S.
17.9S, 178.5W
Fiji Islands
H = 05 22 41.4
h = 598 km
Penticton
iP 05 34 18

NOVEMBER 2

Penticton
eP 06 33 45
Resolute
eP 06 32 52

DOMINION OBSERVATORIES

NOVEMBER 2
Mould Bay
P 07 10 54

NOVEMBER 2
Resolute
eP 10 48 03?

NOVEMBER 2
H = 20 55 41
Mag 1.9
Penticton
iP₁ 20 56 04.6
iS₁ 20 56 22.7
D = 148 km

NOVEMBER 2
H = 22 42 59
Mag 1.6
Penticton
eP₁ 22 43 22.2
eS₁ 22 43 40.1
D = 147 km

NOVEMBER 2
Mould Bay
P 23 06 01
Resolute
eP? 23 06 44

NOVEMBER 2
U. S. C. G. S.
17. 2N, 62. 7W
Leeward Islands
H = 23 03 55.6
h = 29 km
Mould Bay
iP 23 14 39
Ottawa
eP 23 10 06
Shawinigan Falls
eP 23 10 09

NOVEMBER 2
U. S. C. G. S.
54. 5N, 162. 3W
Alaska
H = 23 35 50.7
h = 40 km
Mould Bay
P 23 41 33
Penticton
eP 23 41 30
Resolute
eP 23 42 23

NOVEMBER 3
Canadian Arctic
H = 00 27 07.1
Mag 2.4
Alert, N. W. T.
iP₁ 00 27 44
iS₁ 00 28 12
D = 230 km

NOVEMBER 3
Mould Bay
P 05 22 24
i 05 23 00
Resolute
eP? 05 23 25
Penticton
eP 18 47 16

NOVEMBER 3
Resolute
eP 20 47 16

NOVEMBER 3
Mould Bay
iP 22 12 19
Penticton
eP 22 12 10

NOVEMBER 4
U. S. C. G. S.
29. 9N, 131. 8E
Ryukyu Islands
H = 02 08 50.6
h = 98 km
Resolute
iP 02 20 05

NOVEMBER 4
U. S. C. G. S.
2. 9S, 137. 2E
Near coast of
New Guinea
H = 03 04 21.2
h = 51 km
Shawinigan Falls
eP' 03 23 27

NOVEMBER 4
U. S. C. G. S.
50. 0N, 155. 5E
Kurile Islands
H = 03 38 30.1
h = 32 km
Alert, N. W. T.
iP 03 46 58 c
Penticton
iP 03 47 39
Resolute
eP 03 47 05
Shawinigan Falls
eP 03 50 13

NOVEMBER 4
Canadian Arctic
H = 10 44 20.9
Mag 1.3
Resolute
iP₁ 10 44 34
iS₁ 10 44 44
D = 82 km

SEISMOLOGICAL BULLETIN - 1961

NOVEMBER 4

U. S. C. G. S.
52. 4N, 175. 4W
Andreanof Islands
H = 14 34 36. 5
h = 75 km
Penticton
iP 14 41 34

NOVEMBER 4

Penticton
eP 17 10 58

NOVEMBER 4

Alert, N. W. T.
eP 18 24 40
Ottawa
eP 18 26 45
Penticton
eP 18 23 10
Resolute
eP 18 24 03
i 18 41 07
Shawinigan Falls
eP 18 26 50

NOVEMBER 4

Mould Bay
P 21 30 41

NOVEMBER 4

H = 23 22 48
Mag 2. 4
Penticton
iP_n 23 23 20. 2
iS_n 23 23 45. 3
D = 206 km

NOVEMBER 4

Penticton
eP 23 49 37

NOVEMBER 5

U. S. C. G. S.
36. 6N, 140. 9E
Honshu Japan
H = 03 15 44. 6
h = 60 km
Mould Bay
P 03 25 30
Resolute
eP 03 26 10

NOVEMBER 5

U. S. C. G. S.
44. 2N, 148. 4E
Kurile Islands
H = 03 41 40. 0
h = 18 km
Resolute
eP 03 51 08 c

NOVEMBER 5

Penticton
eP 04 54 06

NOVEMBER 5

H = 07 52 22
Mag 1. 8
Victoria
eP₁ 07 52 30. 4
eS₁ 07 52 36. 8
D = 52 km

NOVEMBER 5

U. S. C. G. S.
28. 7N, 55. 1E
Iran
H = 08 36 35. 4
h = 92 km
Halifax
ePP 08 52 54
Mould Bay
P 08 48 13
e 08 51 53

NOVEMBER 5

Banff
eP 09 54 48. 9
eS 09 56 08. 9
Penticton
eP 09 54 53

NOVEMBER 5

U. S. C. G. S.
45. 7N, 147. 9E
Kurile Islands
H = 10 36 39. 5
h = 142 km
Ottawa
eP 10 48 45
Penticton
iP 10 46 26 c
Resolute
eP 10 45 44

NOVEMBER 5

Penticton
eP 12 25 21

NOVEMBER 5

Mould Bay
P 12 57 02

NOVEMBER 5

Penticton
eP 19 39 16

NOVEMBER 5

U. S. C. G. S.
49. 4S, 163. 3E
Northwest of
New Zealand
H = 23 56 25. 4
h = 35 km
Alert, N. W. T.
iP' 24 15 55

DOMINION OBSERVATORIES

NOVEMBER 6
Penticton
eP 04 49 47

NOVEMBER 6
U. S. C. G. S.
13. 3S, 76. 7W
Near coast of
Peru
H = 05 13 22.5
h = 133 km
Mould Bay
P 05 26 25
Penticton
eP 05 24 41
Resolute
eP? 05 26 04
Shawinigan Falls
eP 05 23 18

NOVEMBER 6
U. S. C. G. S.
13. 3S, 166. 0E
Santa Cruz Islands
region
H = 05 28 39.3
h = 210 km
Penticton
eP 05 41 17

NOVEMBER 6
Resolute
i 05 56 13
i 06 02 10
i 06 11 15

NOVEMBER 6
Resolute
eP? 06 21 50

NOVEMBER 6
U. S. C. G. S.
26. 7N, 91. 9E
Banff
H = 07 59 06.2
h = 67 km
Mould Bay
P 08 10 46
Resolute
eP 08 11 04

NOVEMBER 6
U. S. C. G. S.
36. 5N, 73. 3E
Hindu Kush
H = 12 29 00.5
h = 114 km
Mould Bay
iP 12 39 44
Resolute
eP? 12 39 56

NOVEMBER 6
U. S. C. G. S.
17. 5N, 145. 3E
Mariana Islands
H = 13 34 54.8
h = 251 km
Penticton
eP 13 46 42
Resolute
eP 13 46 43

NOVEMBER 6
H = 19 49 04
Mag 2.3
Penticton
iP₁ 19 49 29.9
iS₁ 19 49 49.4
D = 150 km
Victoria
eP_n 19 49 47.2
D = 298 km

NOVEMBER 6
H = 22 21 27
Mag 1.7
Banff
iP₁ 22 21 32.2
iS₁ 22 21 36.2
D = 33 km

NOVEMBER 7
U. S. C. G. S.
21. 4S, 179. 1W
Fiji Islands region
H = 00 40 05.9
h = 653 km
Penticton
iP 00 51 53

NOVEMBER 7
U. S. C. G. S.
11. 6N, 126. 1E
Philippine Islands
H = 01 12 55.7
h = 47 km
Mould Bay
P 01 25 25
Resolute
eP 01 25 51?

NOVEMBER 7
U. S. C. G. S.
45. 7N, 122. 1W
Oregon-Washington
border, U. S. A.
H = 01 29 10.6
h = 60 km
Banff
eP 01 30 57
Penticton
iP 01 30 10 c
Victoria
iP 01 29 51.1 d

NOVEMBER 7
Mould Bay
P 03 35 41
i 03 35 45

SEISMOLOGICAL BULLETIN - 1961

NOVEMBER 7
U. S. C. G. S.
48. 2N, 153. 0E
Kurile Islands
H = 05 52 20. 8
h = 25 km
Resolute
eP 06 01 09 c

NOVEMBER 8
H = 00 38 07
Mag 2. 0
Penticton
iP₁ 00 38 32. 5
iS₁ 00 38 51. 6
D = 156 km

NOVEMBER 8
H = 19 05 12
Mag 1. 6
Penticton
iP₁ 19 05 25. 3
iS₁ 19 05 35. 4
D = 82 km

NOVEMBER 7
Mould Bay
P 08 51 22

NOVEMBER 8
Mould Bay
P 03 26 24

NOVEMBER 8
Mould Bay
P 19 12 32

NOVEMBER 7
Mould Bay
P 10 57 11
Resolute
eP 10 57 02?

NOVEMBER 8
Resolute
eP 03 45 41

NOVEMBER 8
Mould Bay
P 19 58 52

NOVEMBER 7
Mould Bay
P 14 46 07

NOVEMBER 8
U. S. C. G. S.
15. 6N, 95. 8W
Near coast of
Mexico
H = 04 54 43. 8
h = 45 km

NOVEMBER 8
H = 20 58 35
Mag 2. 5
Penticton
iP_n 20 59 08. 2
iS_n 20 59 34. 6
D = 216 km

NOVEMBER 7
Mould Bay
P 17 15 37

NOVEMBER 8
Mould Bay
P 05 05 05
Penticton
iP 05 02 08

NOVEMBER 8
Penticton
eP 21 28 56

NOVEMBER 7
Mould Bay
P 18 30 33

NOVEMBER 8
Mould Bay
P 14 22 38

NOVEMBER 9
Penticton
eP 01 27 07

NOVEMBER 7
Penticton
eP 21 31 24
Victoria
eP 21 31 02. 2

NOVEMBER 8
Mould Bay
iP 15 47 04 c
i 15 47 25

NOVEMBER 9
Mould Bay
P 01 33 55

NOVEMBER 7
Penticton
iP 23 06 27

NOVEMBER 8
Mould Bay
P 15 58 29

DOMINION OBSERVATORIES

NOVEMBER 9 U. S. C. G. S. 22. 9S, 67. 9W Chile-Argentina border H = 04 19 42. 0 h = 84 km Mag 6 1/4 Banff iP 04 32 07 d Halifax eP 04 30 31. 5 d Ottawa eP 04 30 36 d Penticton iP 04 32 11 d Shawinigan Falls eP 04 30 43 d Victoria eP 04 32 17 d	NOVEMBER 9 Mould Bay P 09 53 52 NOVEMBER 9 Mould Bay P 10 35 10 NOVEMBER 9 Mould Bay iP 11 50 47 c NOVEMBER 9 Mould Bay P 12 05 48 NOVEMBER 9 Penticton eP 12 12 44 NOVEMBER 9 Mould Bay iP 12 45 35 NOVEMBER 9 Mould Bay P 12 50 54 NOVEMBER 9 Resolute eP? 12 53 04 NOVEMBER 9 Resolute eP 13 45 42 NOVEMBER 9 Mould Bay P 13 51 52	NOVEMBER 9 Mould Bay P 14 14 02 NOVEMBER 9 Penticton eP 16 08 37 NOVEMBER 9 Canadian Arctic H = 16 34 19 Mag 2. 4 Resolute iP ₁ 16 34 33. 5 iS ₁ 16 34 44. 5 D = 92 km NOVEMBER 9 H = 18 22 17 Mag 2. 2 Penticton iP ₁ 18 22 42. 1 iS ₁ 18 23 01. 2 D = 156 km NOVEMBER 9 Penticton eP 19 33 32 NOVEMBER 9 Mould Bay P 21 10 38 NOVEMBER 9 H = 22 28 50 Mag 2. 1 Penticton iP ₁ 22 29 16. 1 iS ₁ 22 29 35. 9 D = 162 km
--	--	--

SEISMOLOGICAL BULLETIN - 1961

NOVEMBER 9

Mould Bay
P 23 16 15

NOVEMBER 9

U.S.C.G.S.
15.8S, 174.9W
Tonga Islands region
H = 23 06 55.5
h = 289 km
Penticton
iP 23 18 40

NOVEMBER 10

Mould Bay
P 00 37 49
i 00 37 54

NOVEMBER 10

Mould Bay
P 00 58 42

NOVEMBER 10

U.S.C.G.S.
14.3S, 71.9W
Southern Peru
H = 02 07 34.7
h = 68 km
Ottawa
eP 02 17 32 d
Penticton
eP 02 19 12
Resolute
eP 02 20 28
Shawinigan Falls
eP 02 17 40

NOVEMBER 10

Canadian Arctic
H = 05 32 24
Mag 3.4
Mould Bay
P 05 34 45

NOVEMBER 10

Resolute
P_n 05 32 24.0
S_n? 05 33 07
S₁ 05 33 31.0
D = 450 km

NOVEMBER 10

Mould Bay
P 05 44 31

NOVEMBER 10

Mould Bay
iP 06 05 06 c

NOVEMBER 10

Mould Bay
P 07 17 18

NOVEMBER 10

Penticton
eP 08 29 31

NOVEMBER 10

Mould Bay
P 09 08 33

NOVEMBER 10

Mould Bay
P 11 45 00

NOVEMBER 10

Mould Bay
iP 12 01 43 c

NOVEMBER 10

Resolute
eP 13 30 23

NOVEMBER 10

Mould Bay
P 14 30 44

NOVEMBER 10

U.S.C.G.S.
17.5S, 178.8W
Fiji Islands
H = 18 00 49.6
h = 586 km
Banff
iP 18 12 42 c
Penticton
iP 18 12 27 c

NOVEMBER 10

Canadian Arctic
H = 19 23 33.5
h = 27 km
Mag 3.9

Mould Bay

iP 19 24 19
i 19 24 26

Resolute

P_n 19 24 25
P₁ 19 24 35
S_n 19 25 02
S₁ 19 25 21
D = 382 km

NOVEMBER 10

H = 22 32 45
Mag 2.5
Penticton
iP₁ 22 33 15.1
iS₁ 22 33 38.8
D = 194 km

DOMINION OBSERVATORIES

NOVEMBER 10
 62.5°N[±]1.0°,
 124.4°W[±]1.5°
 Northwest Territories

H = 22 43 29
 Mag 5.5

Alert, N. W. T.
 eL 22 57.5

Mould Bay
 P_n 22 46 41

S_n 22 49 11
 D = 1522 km

Ottawa
 eL_g 23 00 04
 D = 3520 km

Penticton
 P_n 22 46 32

S_n 22 48 58
 L_g 22 50 18

D = 1447 km
 Resolute

P_n 22 47 08
 S_n 22 49 55

L_g 22 51 52

NOVEMBER 10
 Alert, N. W. T.

iP 22 48 59

Mould Bay
 iP 22 49 11

Penticton
 eP 22 53 29

NOVEMBER 10
 Mould Bay

P 23 24 57

NOVEMBER 11
 H = 01 59 04

Mag 1.7
 Penticton

iP₁ 01 59 14.3
 iS₁ 01 59 22.1

D = 64 km

NOVEMBER 11
 Canadian Arctic

H = 02 11 49.5
 h = 27 km

Mag 3.9
 Mould Bay

iP 02 12 34
 i 02 12 42

i 02 13 24
 Resolute

P_n 02 12 41
 P₁ 02 12 51

S_n 02 13 18
 S₁ 02 13 37

D = 382 km

NOVEMBER 11
 U. S. C. G. S.

13.2N, 91.0W
 Off coast of

Guatemala
 H = 12 27 03.8

h = 94 km
 Mould Bay

P 12 37 34
 Penticton

iP 12 34 57
 Resolute

eP 12 37 12 c
 i 12 50 38

NOVEMBER 11
 H = 15 22 28

Mag 2.3
 Penticton

iP₁ 15 22 59.1
 iS₁ 15 23 23.4

D = 199 km

NOVEMBER 11
 Mould Bay

P 16 18 30

NOVEMBER 11
 Mould Bay

P 16 30 36

NOVEMBER 11
 Mould Bay

P 16 50 13

NOVEMBER 11
 Penticton

eP 20 01 44

NOVEMBER 11
 U. S. C. G. S.

8.2S, 75.0W
 Peru

H = 21 46 59.7
 h = 119 km

Mould Bay
 P 21 59 37

Penticton
 eP 21 57 57

NOVEMBER 12
 U. S. C. G. S.

0.8N, 29.5E
 Congo region

H = 02 15 16.7
 h = 39 km

Halifax
 eP 02 28 13

Penticton
 eP' 02 33 57

NOVEMBER 12
 Resolute

i 03 15 32

NOVEMBER 12
 Mould Bay

P 06 04 04

SEISMOLOGICAL BULLETIN - 1961

NOVEMBER 12

U. S. C. G. S.
16.9S, 66.9W
Mascarene Islands
region
H = 08 21 06.8
h = 34 km
Penticton
eP' 08 40 49

NOVEMBER 12

Mould Bay
P 09 45 06

NOVEMBER 12

U. S. C. G. S.
15.6S, 175.9W
Fiji Islands region
H = 14 11 58.8
h = 219 km
Penticton
eP 14 23 52

NOVEMBER 12

Southern Vancouver
Island
H = 17 51 10
Mag 2.1
Alberni
iP₁ 17 51 18.1
iS₁ 17 51 24.3
D = 51 km
Victoria
eP₁ 17 51 28.0
eS₁ 17 51 42.7
D = 120 km

NOVEMBER 12

U. S. C. G. S.
23.2S, 180.0
South of Fiji Islands
H = 18 12 22.0
h = 556 km
Penticton
eP 18 24 28

NOVEMBER 12

Penticton
eP 21 51 43

NOVEMBER 13

Mould Bay
P 00 37 05

NOVEMBER 13

Resolute
eP 01 13 20

NOVEMBER 13

Penticton
eP 02 41 58

NOVEMBER 13

Mould Bay
P 03 03 35

NOVEMBER 13

Penticton
eP 08 22 16

NOVEMBER 13

U. S. C. G. S.
35.7N, 70.4E
Hindu Kush
H = 09 12 14.6
h = 157 km
Mould Bay
P 09 23 00

NOVEMBER 13

Mould Bay
P 09 39 51

NOVEMBER 13

Penticton
eP 10 50 31

NOVEMBER 13

Penticton
eP 11 08 03

NOVEMBER 13

Mould Bay
P 12 38 07

NOVEMBER 13

Alert, N. W. T.
iP 14 15 55
Resolute
eP 14 17 33

NOVEMBER 13

U. S. C. G. S.
46.8N, 153.9E
Kurile Islands
H = 19 38 15.5
h = 39 km
Alert, N. W. T.
iP 19 47 07

NOVEMBER 13

Mould Bay
P 19 46 26
Penticton
eP 19 47 47
Resolute
eP 19 47 15

NOVEMBER 13

Resolute
eP 20 35 31

NOVEMBER 13

H = 23 53 21
Mag 2.5
Penticton
iP₁ 23 53 50.4
iS₁ 23 54 13.5
D = 189 km

DOMINION OBSERVATORIES

NOVEMBER 14
Mould Bay
P 01 00 48

NOVEMBER 14
Mould Bay
P 01 06 37

NOVEMBER 14
Mould Bay
P 01 17 28

NOVEMBER 14
Mould Bay
P 02 02 43

NOVEMBER 14
Mould Bay
P 02 26 19

NOVEMBER 14
Mould Bay
P 02 34 23

NOVEMBER 14
Mould Bay
P 02 51 46

NOVEMBER 14
Mould Bay
P 04 44 13

NOVEMBER 14
U. S. C. G. S.
7. 3N, 82. 4W
Off coast of Panama
H = 04 42 26. 5
h = 29 km
Mag 6 1/4
Alberni
eP 04 52 00

Alert, N. W. T.
eP 04 54 11
Banff
eP 04 51 32
Halifax
eP 04 50 08
Mould Bay
iP 04 53 49 c
Resolute
eP 04 53 23 c
Shawinigan Falls
eP 04 50 02
Victoria
eP 04 52 50

NOVEMBER 14
U. S. C. G. S.
36. 1N, 139. 0E
Honshu Japan
H = 10 02 32. 7
h = 167 km
Alert, N. W. T.
iP 10 12 32 c
Mould Bay
iP 10 12 10 c
Resolute
iP 10 12 50 c

NOVEMBER 14
U. S. C. G. S.
47. 0N, 153. 7E
Kurile Islands
H = 10 28 33. 4
h = 26 km
Alert, N. W. T.
P 10 37 25
Mould Bay
P 10 36 45
Resolute
eP 10 37 33

NOVEMBER 14
Mould Bay
P 12 13 57

NOVEMBER 14
U. S. C. G. S.
33. 9S, 179. 6W
Off coast of
New Zealand
H = 12 38 51. 9
h = 51 km
Mould Bay
P' 12 57 29
Resolute
eP' 12 57 39

NOVEMBER 14
Mould Bay
P 13 53 50

NOVEMBER 14
U. S. C. G. S.
5. 7S, 104. 3E
Near coast of Sumatra
H = 17 14 00. 1
h = 16 km
Resolute
eP' 17 32 33

NOVEMBER 14
Mould Bay
P 18 04 30
Resolute
eP 18 05 08

NOVEMBER 14
H = 21 31 02
Mag 2. 0
Penticton
eP_n 21 31 29. 4
eS_n 21 31 50. 5
D = 173 km

SEISMOLOGICAL BULLETIN - 1961

NOVEMBER 14

U. S. C. G. S.
44. 2N, 147. 6E
Kurile Islands
H = 22 26 47. 9
h = 25 km

Resolute
eP 22 36 19

NOVEMBER 14

H = 23 05 54
Mag 2. 4

Penticton
eP₁ 23 06 20. 2
eS₁ 23 06 40. 0
D = 162 km

NOVEMBER 14

H = 23 17 12
Mag 2. 5

Penticton
iP_n 23 17 54. 5
iS_n 23 18 30. 0
D = 290 km

NOVEMBER 14

Resolute
eP 23 21 20

NOVEMBER 14

H = 23 25 31
Mag 1. 8

Penticton
eP₁ 23 25 56. 0
eS₁ 23 26 15. 2
D = 157 km

NOVEMBER 14

Resolute
eP 23 29 51

NOVEMBER 15

Mould Bay
P 04 14 05

NOVEMBER 15

U. S. C. G. S.
4. 1S, 105. 0E
Sumatra
H = 04 22 51. 9
h = 126 km

Penticton
iP' 04 41 44

NOVEMBER 15

U. S. C. G. S.
34. 9N, 119. 1W
California
H = 05 38 54. 3
h = 26 km
Mag 4. 9

Alberni
eP 05 42 26
Banff
eP 05 42 48
Mould Bay
P 05 46 42

Penticton
eP 05 42 22
Shawinigan Falls
eP 05 46 01
Victoria
eP 05 42 27

NOVEMBER 15

47. 9°N, 123. 2°W
Washington, U. S. A.
H = 06 47 09
Mag 2. 2

Penticton
eP_n 06 47 45. 9
D = 310 km
Victoria
eP₁ 06 47 20. 8
eS₁ 06 47 30. 1
D = 77 km

NOVEMBER 15

U. S. C. G. S.
43. 1N, 145. 1E
Hokkaido Japan
H = 07 17 12. 4
h = 43 km

Alberni
iP 07 27 10
Alert, N. W. T.
iP 07 26 34 c
S 07 34 03
Banff
iP 07 27 37
Penticton
iP 07 27 29
Resolute
iP 07 26 48 c
Shawinigan Falls
eP 07 29 43 c
Victoria
eP 07 27 18

NOVEMBER 15

Penticton
eP 07 56 33

NOVEMBER 15

U. S. C. G. S.
15. 3S, 173. 3W
Samoa Islands region
H = 13 41 37. 8
h = 34 km
Penticton
iP 13 53 44

NOVEMBER 15

48°52'N, 121°53'W
Washington, U. S. A.
H = 17 27 07
Mag 2. 2
Penticton
iP_n 17 27 34. 3
D = 173 km
Victoria
eP₁ 17 27 25. 9
eS₁ 17 27 40. 6
D = 120 km

DOMINION OBSERVATORIES

NOVEMBER 15

U. S. C. G. S.
21. 1S, 175. 8W
Tonga Islands
H = 19 26 51.5
h = 25 km
Penticton
eP 19 39 29

NOVEMBER 15

Resolute
eP? 21 25 25

NOVEMBER 15

U. S. C. G. S.
56. 6S, 25. 7W
Sandwich Islands
H = 22 01 43.8
h = 41 km
Penticton
eP' 22 20 51
Resolute
eP' 22 21 05?

NOVEMBER 16

Mould Bay
P 02 33 12

NOVEMBER 16

U. S. C. G. S.
18. 6N, 68. 9W
Near coast of
Dominican Republic
H = 08 19 54.3
h = 147 km
Alberni
eP 08 29 04
Alert, N. W. T.
eP 08 30 13 d
Banff
eP 08 28 27
Halifax
iP 08 25 24?c
e 08 30 30?

Mould Bay

P 08 30 08
Penticton
eP 08 28, 39
Resolute
eP 08 29 32
i 08 30 06
Shawinigan Falls
eP 08 25 35 c
Victoria
eP 08 28 55

NOVEMBER 16

Mould Bay
P 13 11 07

NOVEMBER 16

U. S. C. G. S.
20. 2S, 172. 9W
Loyalty Islands region
H = 16 03 54. 8
h = 32 km
Penticton
eP 16 16 50

NOVEMBER 16

H = 22 53 17
Mag 1.5
Penticton
eP₁ 22 53 32.8
eS₁ 22 53 45.1

NOVEMBER 17

U. S. C. G. S.
17. 7S, 178. 6W
Fiji Islands
H = 08 13 49.8
h = 598 km
Alberni
eP 08 25 10
Penticton
iP 08 25 27 c

NOVEMBER 17

Penticton
eP 09 35 25
Resolute
eP 09 35 32?

NOVEMBER 17

Penticton
eP 11 19 39

NOVEMBER 17

Alberni
eP 11 46 11
Penticton
eP 11 47 02

NOVEMBER 17

Penticton
eP 12 46 11

NOVEMBER 17

Penticton
eP 13 12 51

NOVEMBER 17

Mould Bay
P 14 46 56

NOVEMBER 17

U. S. C. G. S.
52. 4N, 170. 7W
Fox Islands
H = 14 49 03.0
Alert, N. W. T.
iP 14 56 43 d
Halifax
iP 14 59 42 d
Mould Bay
P 14 55 19
Penticton
iP 14 55 29
i 14 58 19

SEISMOLOGICAL BULLETIN - 1961

Resolute eP 14 56 09? i 14 58 31	NOVEMBER 18 Mould Bay P 02 03 17	NOVEMBER 18 U. S. C. G. S. 8. 8S, 74. 7W Peru H = 10 34 05. 8 h = 50 km Mould Bay P 10 46 55 e 10 47 33 Penticton eP 10 45 14 Resolute eP 10 46 34 c Shawinigan Falls eP 10 43 35
NOVEMBER 17 Penticton eP 15 34 00	NOVEMBER 18 U. S. C. G. S. 35. 4N, 117. 8W California H = 03 18 35. 5 h = 23 km Mag 4 Mould Bay P 03 28 17	NOVEMBER 18 U. S. C. G. S. 27. 0S, 176. 3W Kermadec Islands region H = 11 16 56. 8 h = 61 km Alberni eP 11 29 47 Penticton eP 11 29 00 Resolute iP' 11 35 35
NOVEMBER 17 U. S. C. G. S. 19. 6S, 175. 5W Tonga Islands region H = 19 03 55. 4 h = 200 km Penticton iP 19 16 10	NOVEMBER 18 Mould Bay P 04 16 00	NOVEMBER 18 U. S. C. G. S. 56. 2S, 25. 2W Sandwich Islands H = 07 27 40. 3 h = 25 km Mould Bay iP' 07 47 16 c Resolute eP' 07 47 07
NOVEMBER 17 Penticton eP 20 06 22	NOVEMBER 18 Penticton eP 07 38 21	NOVEMBER 18 U. S. C. G. S. 29. 9N, 138. 9E South of Honshu, Japan H = 10 09 10. 4 h = 339 km Mould Bay P 10 19 13
NOVEMBER 17 Penticton iP 20 08 45		NOVEMBER 18 Penticton eP 18 27 15
NOVEMBER 17 Penticton iP 23 42 47		NOVEMBER 18 Resolute eP? 18 55 30?
NOVEMBER 17 Penticton eP 23 51 52		
NOVEMBER 18 U. S. C. G. S. 32. 6N, 73. 6E West Pakistan H = 01 43 07. 7 h = 56 km Mould Bay P 01 54 22		

DOMINION OBSERVATORIES

NOVEMBER 18
Mould Bay
P 21 28 44

NOVEMBER 18
U. S. C. G. S.
23. 7N, 121. 8E
Near coast of
Formosa
H = 22 09 53. 4
h = 60 km
Alberni
eP 22 22 32
Alert, N. W. T.
eP 22 21 22
Banff
eP 22 22 50
Mould Bay
P 22 21 21
Penticton
iP 22 22 45 c
Resolute
eP 22 21 52 c
Victoria
eP 22 22 38

NOVEMBER 18
H = 23 11 25
Mag 2. 5
Alberni
iP₁ 23 11 50. 1
iS₁ 23 12 07. 7
D = 144 km
Penticton
eP_n 23 12 25. 7
D = 426 km
Victoria
iP₁ 23 11 32. 4
iS₁ 23 11 36. 0
D = 36 km

NOVEMBER 19
U. S. C. G. S.
51. 6N, 178. 5W
Andreanof Islands
H = 00 35 14. 1
h = 68 km
Alberni
eP 00 41 50
Banff
eP 00 42 29
Penticton
iP 00 42 17 c
Resolute
i 00 44 47

NOVEMBER 19
Resolute
eP 03 48 10 c

NOVEMBER 19
U. S. C. G. S.
4. 3S, 101. 7W
West of Galapagos
Islands
H = 08 05 07. 4
h = 25 km
Penticton
eP 08 14 42

NOVEMBER 19
U. S. C. G. S.
7. 0S, 154. 8E
Solomon Islands
H = 10 12 51. 2
h = 85 km
Mould Bay
P 10 26 10

NOVEMBER 19
Mould Bay
P 12 02 18

NOVEMBER 19
Penticton
eP 16 29 16

NOVEMBER 19
Mould Bay
P 19 44 02

NOVEMBER 19
Penticton
iP 22 42 26 d

NOVEMBER 19
U. S. C. G. S.
0. 8N, 124. 3E
Northern Celebes
H = 23 21 55. 5
h = 157 km
Alberni
eP 23 35 37
Alert, N. W. T.
P 23 35 09
Halifax
i 23 44 07. 5 d
Mould Bay
iP 23 35 03 d
Penticton
iP 23 35 52 d
Resolute
eP 23 35 29 d
Shawinigan Falls
iP' 23 40 49 c
e 23 43 54

NOVEMBER 20
Penticton
iP 02 12 19

SEISMOLOGICAL BULLETIN - 1961

NOVEMBER 20	Mould Bay	NOVEMBER 20
U. S. C. G. S.	P 06 47 09	Penticton
50. 9N, 92. 5E	Penticton	iP 14 19 19 d
Mongolia-Siberia	iP 06 48 42 d	
border	Resolute	
H = 04 03 55.7	eP 06 48 02	NOVEMBER 20
h = 53 km		Penticton
Alert, N. W. T.	NOVEMBER 20	eP 14 53 57
P 04 12 18	Mould Bay	
Banff	P 07 59 01	NOVEMBER 20
eP 04 15 37		Mould Bay
Mould Bay		P 17 18 53
P 04 12 58	NOVEMBER 20	
Penticton	U. S. C. G. S.	NOVEMBER 20
iP 04 15 42	33. 7N, 117. 9W	Mould Bay
Resolute	California	P 17 31 05
eP 04 13 21?	H = 08 53 35.1	
	h = 17 km	
NOVEMBER 20	Mag 4	NOVEMBER 20
U. S. C. G. S.	Penticton	U. S. C. G. S.
37. 3N, 141. 3E	eP 08 57 23	31. 3N, 40. 9W
Near coast of		North Atlantic Ocean
Honshu Japan	NOVEMBER 20	H = 17 58 17.5
H = 04 32 36.9	U. S. C. G. S.	h = 44 km
h = 83 km	21. 8S, 169. 9E	Alberni
Alert, N. W. T.	Loyalty Islands	eP 18 08 50
P 04 42 35	region	Alert, N. W. T.
Mould Bay	H = 11 44 19.4	iP 18 07 24 d
eP 04 42 10 c	h = 33 km	Banff
Penticton	Halifax	eP 18 08 01
eP 04 43 21	e 12 06 53.5	Halifax
Resolute	Penticton	iP 18 03 16 d
eP 04 42 51	eP 11 57 41	Mould Bay
	Shawinigan Falls	P 18 08 04
NOVEMBER 20	eP' 12 03 20	Penticton
U. S. C. G. S.		eP 18 08 22
54. 7N, 161. 8E	NOVEMBER 20	Resolute
Near coast of	Mould Bay	eP 18 07 18
Kamchatka	P 12 21 25	i 18 08 41
H = 06 40 20.9		PP 18 09 20
h = 71 km		S 18 14 47
Alberni	NOVEMBER 20	SS 18 18 22
eP 06 48 21	Mould Bay	L 18 29 56
Banff	P 13 38 30	Shawinigan Falls
eP 06 48 47		eP 18 04 16
		Victoria
		eP 18 08 41

DOMINION OBSERVATORIES

NOVEMBER 20
 H = 19 45 10
 Mag 2.0
 Penticton
 eP₁ 19 45 35.8
 eS₁ 19 45 55.4
 D = 160 km

NOVEMBER 20
 Mould Bay
 P 19 47 29

NOVEMBER 20
 Mould Bay
 P 20 11 05

NOVEMBER 20
 Penticton
 eP 22 32 54

NOVEMBER 20
 U. S. C. G. S.
 28. 3N, 138. 9E
 South of Honshu
 Japan
 H = 23 07 47.5
 h = 525 km
 Alert, N. W. T.
 iP 23 18 01 c
 Mould Bay
 iP 23 17 39
 Penticton
 iP 23 18 41 d
 Resolute
 iP 23 18 16 c

NOVEMBER 20
 Penticton
 iP 23 41 13

NOVEMBER 20
 Penticton
 eP 23 50 53

NOVEMBER 21
 U. S. C. G. S.
 43. 8N, 145. 3E
 Japan
 H = 01 16 50.2
 h = 165 km
 Penticton
 eP 01 26 49
 Resolute
 eP 01 26 07

NOVEMBER 21
 H = 01 49 13
 Mag 2.1
 Alberni
 iP₁ 01 49 21.3
 iS₁ 01 49 27.8
 D = 53 km

NOVEMBER 21
 U. S. C. G. S.
 39. 7N, 69. 3E
 Tadzhik, S. S. R.
 H = 05 00 25.9
 h = 249 km
 Mould Bay
 iP 05 10 36 c
 Penticton
 iP 05 13 07
 Resolute
 eP 05 10 44

NOVEMBER 21
 Mould Bay
 P 05 45 31

NOVEMBER 21
 U. S. C. G. S.
 10. 6N, 62. 8W
 Near coast of
 Venezuela
 H = 06 38 51.1
 h = 70 km
 Mould Bay
 P 06 50 12

NOVEMBER 21
 Penticton
 eP 07 25 50

NOVEMBER 21
 U. S. C. G. S.
 0. 9N, 122. 5E
 Northern Celebes
 H = 11 06 38.1
 h = 85 km
 Mould Bay
 P 11 19 55

NOVEMBER 21
 Resolute
 eP 13 48 19

NOVEMBER 21
 Penticton
 eP 14 17 23

NOVEMBER 21
 Resolute
 eP 15 03 32

NOVEMBER 21
 U. S. C. G. S.
 62. 6N, 156. 5W
 Southern Alaska
 H = 20 20 05.4
 h = 154 km
 Mould Bay
 P 20 24 15
 Penticton
 eP 20 24 57
 Resolute
 eP 20 25 08

SEISMOLOGICAL BULLETIN - 1961

NOVEMBER 21

H = 21 25 30

Mag 2.5

Penticton

iP_n 21 26 10.7

iS_n 21 26 44.3

D = 275 km

NOVEMBER 21

Penticton

eP 23 03 53

NOVEMBER 22

Penticton

eP 03 56 06

NOVEMBER 22

U. S. C. G. S.

51.4N, 174.7W

Andreanof Islands

H = 10 18 21.8

h = 25 km

Mould Bay

P 10 24 48

Penticton

iP 10 25 14

NOVEMBER 22

Penticton

eP 12 08 02

Resolute

eP 12 07 23

NOVEMBER 22

U. S. C. G. S.

15.4N, 91.7W

Mexico-Guatemala

border

H = 12 30 01.9

h = 84 km

Mould Bay

P 12 40 18

NOVEMBER 22

Penticton

iP 12 37 39

NOVEMBER 22

U. S. C. G. S.

2.7N, 84.8W

South of Panama

H = 13 01 40.1

h = 37 km

Alert, N. W. T.

P 13 13 49

Mould Bay

P 13 13 26

Penticton

eP 13 11 13

Shawinigan Falls

eP 13 09 52

NOVEMBER 22

Mould Bay

P 14 38 08

NOVEMBER 22

Mould Bay

P 15 27 30

Penticton

eP 15 27 31

NOVEMBER 22

Mould Bay

P 16 34 05

NOVEMBER 22

H = 16 40 12

Mag 2.1

Penticton

iP₁ 16 40 36.0

iS₁ 16 40 53.9

D = 147 km

NOVEMBER 22

Mould Bay

P 18 04 00

NOVEMBER 22

80.0°N±0.4°,

111.7°W±1.5°

Northwest Territories

H = 19 56 21

h = 10 km

Mag 4.0

Alert, N. W. T.

P_n 19 58 18

S_n 19 59 41

D = 900 km

Mould Bay

P_n 19 57 22

D = 450 km

Resolute

P_n 19 57 55

S_n 19 59 03

D = 715 km

NOVEMBER 22

Mould Bay

iP 22 01 57 c

Resolute

eP? 22 02 31

NOVEMBER 23

Mould Bay

P 06 27 00

NOVEMBER 23

Penticton

eP 10 04 14

NOVEMBER 23

Penticton

eP 10 29 04

DOMINION OBSERVATORIES

NOVEMBER 23 U. S. C. G. S. 11. 1N, 84. 7W Costa Rica-Nicaragua border H = 10 36 11. 0 h = 234 km Mould Bay eP 10 46 45 c Penticton eP 10 44 27 Resolute eP 10 46 19 Shawinigan Falls eP 10 42 59	Shawinigan Falls eP 16 52 37	NOVEMBER 24 Penticton eP 14 44 39
NOVEMBER 23 U. S. C. G. S. 5. 5S, 80. 5W Near coast of Peru H = 11 17 25. 5 h = 60 km Mould Bay P 11 29 56 Penticton eP 11 27 56	NOVEMBER 23 U. S. C. G. S. 23. 4S, 176. 2W Tonga Islands H = 16 58 50. 1 h = 60 km Penticton eP 17 11 37	NOVEMBER 24 Penticton iP 19 52 08
NOVEMBER 23 Penticton eP 12 12 57	NOVEMBER 23 H = 19 53 29 Mag 2. 2 Penticton iP ₁ 19 53 54. 8 iS ₁ 19 54 14. 4 D = 161 km	NOVEMBER 24 Mould Bay P 22 30 47
NOVEMBER 23 U. S. C. G. S. 18. 5S, 175. 1W Tonga Islands region H = 15 26 58. 3 h = 168 km Penticton eP 15 39 12	NOVEMBER 24 H = 00 57 20 Mag 2. 5 Alberni eP ₁ 00 57 35. 4 eS ₁ 00 57 47. 4 D = 98 km	NOVEMBER 24 Mould Bay P 05 57 53
NOVEMBER 23 Penticton eP 16 53 02	NOVEMBER 24 Penticton eP 03 16 26	NOVEMBER 24 Penticton iP 06 14 50 c
	NOVEMBER 24 Penticton eP 07 46 58	NOVEMBER 25 Penticton eP 07 27 37
	NOVEMBER 24 Penticton eP 14 13 51	NOVEMBER 25 Penticton eP 11 10 42
		NOVEMBER 25 U. S. C. G. S. 6. 3S, 154. 8E Solomon Islands H = 14 11 23. 2 h = 83 km Alberni eP 14 24 06 Banff eP 14 24 35

SEISMOLOGICAL BULLETIN - 1961

Penticton
iP 14 24 22

NOVEMBER 25

Resolute
eP 16 08 14

NOVEMBER 25

U. S. C. G. S.
36.4N, 141.4E

Near coast of
Honshu Japan
H = 20 19 50.7
h = 64 km

Alert, N. W. T.
iP 20 30 00 c

Penticton
iP 20 30 51

Resolute
eP 20 30 16 c

NOVEMBER 25

Penticton
eP 22 43 35

NOVEMBER 25

U. S. C. G. S.
22.3S, 175.5W

Tonga Islands
H = 22 54 46.3
h = 25 km

Penticton
eP 23 07 33

NOVEMBER 26

H = 00 01 33
Mag 2.2

Alberni

iP₁ 00 01 40.8
iS₁ 00 01 46.9

D = 50 km

Victoria

eP₁ 00 01 58.5
D = 161 km

NOVEMBER 26

Penticton
eP 01 07 28

NOVEMBER 26

Mould Bay
P 10 10 42
Penticton
eP 10 08 04

NOVEMBER 26

Banff
eP 12 55 20.7
Penticton
iP 12 54 39.7 d
Victoria
eP 12 55 01.2

NOVEMBER 26

U. S. C. G. S.
30.7N, 44.1W
North Atlantic Ocean
H = 14 17 50.5
h = 39 km

Mould Bay
P 14 27 42

Resolute
eP 14 26 55

Shawinigan Falls
eP 14 23 41

NOVEMBER 26

Mould Bay
P 14 40 05

Penticton
eP 14 40 12

Resolute
eP 14 39 19

NOVEMBER 26

Canadian Arctic
H = 19 07 37.8

Mag 2.0

Resolute

P₁ 19 08 22.0
S₁ | 19 08 55.5
D = 275 km

NOVEMBER 27

U. S. C. G. S.
38.9N, 106.1W

Colorado
H = 00 55 44.3

h = 19 km
Penticton
eP 00 58 58

NOVEMBER 27

Penticton
eP 01 02 16

NOVEMBER 27

U. S. C. G. S.
56.4S, 28.2W

Sandwich Islands
H = 01 54 20.6
h = 163 km

Penticton
eP' 02 13 08

Resolute
eP' 02 13 22

NOVEMBER 27

H = 04 00 57
Mag 2.2

Alberni

eP₁ 04 01 08.9
eS₁ 04 01 17.6
D = 72 km

NOVEMBER 27

Mould Bay
iP 05 55 35 c

Resolute
eP 05 56 10 c

DOMINION OBSERVATORIES

NOVEMBER 27

U. S. C. G. S.
31.6N, 131.1E

Near coast of
Japan
H = 05 57 07.6
h = 25 km

Alert, N. W. T.
iP 06 07 57

Banff
eP 06 09 12

Mould Bay
iP 06 07 43 c

Penticton
iP 06 09 07

Resolute
iP 06 08 19 c

Victoria
eP 06 08 58

NOVEMBER 27

Mould Bay
P 06 18 32

Resolute
eP 06 19 09

NOVEMBER 27

Mould Bay
P 06 44 18

NOVEMBER 27

Resolute
eP 06 54 44

NOVEMBER 27

U. S. C. G. S.
49.8S, 121.7E
South of Australia
H = 10 53 45.2
h = 25 km
Mould Bay
P' 11 13 17
Resolute
eP' 11 13 38?

NOVEMBER 27

U. S. C. G. S.
0.6S, 127.1E
Halmahera region
H = 17 10 33.3
h = 25 km

Mag 6 1/4
Mould Bay
P 17 24 04

Penticton
eP' 17 28 40

Resolute
eP 17 24 31

Shawinigan Falls
eP' 17 29 49

NOVEMBER 27

Banff
eP 17 40 34

NOVEMBER 27

H = 19 48 39
Mag 2.0
Penticton
eP₁ 19 49 03.2
eS₁ 19 49 21.4
D = 149 km

NOVEMBER 27

Penticton
eP 22 09 47

NOVEMBER 27

U. S. C. G. S.
60.6S, 156.9E
Balleny Islands region
H = 23 30 46.4
h = 46 km
Mould Bay
P' 23 50 18
Resolute
eP' 23 50 33?

NOVEMBER 28

47.1°N, 122.5°W
Puget Sound Basin
H = 03 07 56
Mag 2.5
Penticton
eP_n 03 08 42.0
D = 325 km
Victoria
eP₁ 03 08 22.8
eS₁ 03 08 43.5
D = 170 km

NOVEMBER 28

Mould Bay
iP 03 58 22

NOVEMBER 28

Mould Bay
P 04 22 25

NOVEMBER 28

H = 05 19 20
Mag 1.9
Penticton
iP₁ 05 19 34.5
iS₁ 05 19 45.5
D = 90 km
Victoria
eP_n 05 19 59.0
D = 265 km

NOVEMBER 28

Mould Bay
P 06 46 49

NOVEMBER 28

U. S. C. G. S.
46.7N, 153.5E
Kurile Islands
H = 07 53 43.9
h = 80 km
Mould Bay
P 08 01 49
Penticton
eP 08 03 08

SEISMOLOGICAL BULLETIN - 1961

- Resolute
eP 08 02 38
- NOVEMBER 28
U. S. C. G. S.
40.6N, 26.5E
Greece-Turkey border
H = 08 58 51.3
h = 119 km
Banff
eP 09 11 02
Mould Bay
P 09 08 57
Penticton
eP 09 11 18
Resolute
eP 09 08 38
- NOVEMBER 28
Mould Bay
P 10 24 02
- NOVEMBER 28
U. S. C. G. S.
35.7N, 73.6E
India-Pakistan
border
H = 10 14 44.5
h = 31 km
Alert, N. W. T.
eP 10 24 55 c
Mould Bay
iP 10 25 49 c
Penticton
iP 10 28 10 d
Resolute
eP 10 25 57
- NOVEMBER 28
Penticton
eP 13 42 08
- NOVEMBER 28
U. S. C. G. S.
35.9N, 140.2E
Honshu Japan
H = 16 37 58.5
h = 101 km
Mould Bay
P 16 47 42
Resolute
eP 16 48 22
- NOVEMBER 28
U. S. C. G. S.
56.9S, 143.5E
South of Tasmania
H = 18 34 37.4
h = 51 km
Mould Bay
P' 18 54 13
Resolute
eP' 18 54 29
i 19 43 13
- NOVEMBER 28
Penticton
eP 20 18 16
- NOVEMBER 28
H = 20 42 00
Mag 1.9
Alberni
iP₁ 20 42 08.1
iS₁ 20 42 14.5
D = 52 km
- NOVEMBER 28
H = 23 24 28
Mag 1.7
Alberni
eP₁ 23 24 38.3
eS₁ 23 24 45.8
D = 62 km
- NOVEMBER 28
H = 23 45 05
Mag 1.6
Alberni
iP₁ 23 45 14.0
iS₁ 23 45 20.9
D = 56 km
- NOVEMBER 29
Mould Bay
P 01 21 18
- NOVEMBER 29
U. S. C. G. S.
38.5S, 75.0W
Near coast of Chile
H = 04 43 07.7
h = 85 km
Shawinigan Falls
eP 04 55 37 c
- NOVEMBER 29
Resolute
i 10 04 41?
- NOVEMBER 29
Penticton
eP 10 47 46
- NOVEMBER 29
Penticton
eP 11 54 31
Victoria
eP 11 53 10
- NOVEMBER 29
U. S. C. G. S.
52.2N, 158.4E
Near coast of
Kamchatka
H = 17 50 05.6
h = 76 km
Mould Bay
P 17 57 20

DOMINION OBSERVATORIES

Penticton eP 17 58 49 Resolute eP 17 58 11	NOVEMBER 30 Mould Bay P 06 09 03	NOVEMBER 30 U. S. C. G. S. 43. 8N, 132. 1E Near Vladivostok, U. S. S. R. H = 12 20 07. 3 h = 469 km
NOVEMBER 29 Penticton eP 18 29 51	NOVEMBER 30 47. 2°N, 122. 1°W East of Seattle Washington, U. S. A. H = 08 12 50 Mag 3. 1	Mould Bay P 12 28 37 Penticton iP 12 30 23 c Resolute eP 12 29 16
NOVEMBER 29 Mould Bay P 20 34 50	Alberni eP _n 08 13 29. 0 D = 265 km	
NOVEMBER 29 U. S. C. G. S. 6. 9S, 75. 9W Peru H = 20 38 06. 5 h = 25 km Mould Bay eP 20 50 52 c Penticton eP 20 48 42 Shawinigan Falls eP 20 47 28	Penticton eP _n 08 13 28. 5 eS _n 08 14 03. 3 D = 260 km Victoria iP ₁ 08 13 10. 6 iS ₁ 08 13 26. 2 D = 128 km	NOVEMBER 30 Penticton eP 16 31 11
		NOVEMBER 30 Mould Bay P 16 45 59
	NOVEMBER 30 Mould Bay P 08 15 14	NOVEMBER 30 U. S. C. G. S. 3. 3S, 127. 2E Ceram Sea H = 16 46 51. 5 h = 75 km Mould Bay P 17 00 26
NOVEMBER 30 Penticton eP 00 26 10	NOVEMBER 30 Canadian Arctic H = 08 41 08. 0 Mag 2. 0 Resolute iP ₁ 08 41 18. 0 i 08 41 23. 0 iS ₁ 08 41 25. 6 D = 62. 4 km	NOVEMBER 30 Mould Bay P 18 01 19
NOVEMBER 30 Resolute eP 01 21 22		
NOVEMBER 30 Mould Bay iP 04 41 15 c	NOVEMBER 30 Mould Bay iP 10 40 48 c Resolute eP 10 40 57	NOVEMBER 30 Resolute eP? 18 02 08
		NOVEMBER 30 Penticton eP 22 37 05

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 1
Mould Bay
iP 02 26 51

DECEMBER 1
Mould Bay
P 02 53 09

DECEMBER 1
U.S.C.G.S.
56.6N, 158.8E
Kamchatka
H = 07 34 17.9
h = 18 km
Alberni
eP 07 42 31

Alert, N.W. T.
P 07 41 52
Banff
eP 07 42 56
Halifax
iP 07 45 51 c
Mould Bay
eP 07 41 08 d
Penticton
iP 07 42 51
Resolute
eP 07 41 59 c
Shawinigan Falls
eP 07 45 24 d

DECEMBER 1
U.S.C.G.S.
8.7N, 122.0E
Philippine Islands
H = 07 58 49.7
h = 36 km
Mould Bay
P 08 11 36
Resolute
eP 08 12 02

DECEMBER 1
Penticton
eP 13 00 28

DECEMBER 1
Resolute
i 19 04 11

DECEMBER 1
Penticton
eP 19 22 29

DECEMBER 1
H = 19 59 20
Mag 1.9
Penticton
eP₁ 19 59 46.4
eS₁ 20 00 06.4
D = 164 km

DECEMBER 1
U.S.C.G.S.
27.7N, 141.5E
Volcano Islands region
H = 20 17 41.5
h = 25 km
Alert, N.W. T.
eP 20 28 50 d
Mould Bay
P 20 28 24
Penticton
eP 20 29 43
Resolute
eP 20 29 02

DECEMBER 1
Penticton
eP 20 48 27

DECEMBER 1
U.S.C.G.S.
26.5N, 124.9E
China Sea
H = 21 13 04.1
h = 206 km
Alberni
iP 21 25 05

Alert, N.W. T.
iP 21 24 01 d
Banff
iP 21 25 23 d
Mould Bay
P 21 23 53
Penticton
iP 21 25 20 d
Resolute
iP 21 24 28 d
Victoria
iP 21 25 11 d

DECEMBER 1
Penticton
eP 21 35 22

DECEMBER 1
Penticton
eP 21 58 09

DECEMBER 1
Penticton
eP 22 16 29

DECEMBER 1
Penticton
eP 22 20 15

DECEMBER 1
Penticton
eP 23 08 28

DECEMBER 1
Penticton
eP 23 12 45

DECEMBER 1
Resolute
eP 23 54 15 ?

DOMINION OBSERVATORIES

DECEMBER 2 H = 00 18 39 Mag 2.4 Penticton iP ₁ 00 19 07.0 iS ₁ 00 19 28.7 D = 177 km Victoria eP _n 00 19 24.5 D = 322 km	DECEMBER 2 Mould Bay P 11 10 39	DECEMBER 2 Penticton eP 14 29 53
DECEMBER 2 Resolute eP 02 21 48	DECEMBER 2 U. S. C. G. S. 36.5N, 8.6E Northern Tunis H = 12 40 17.8 h = 62 km Alberni eP 12 52 59 Alert, N. W. T. P 12 49 20 Banff eP 12 52 21 Halifax iP 12 49 34.5 d Mould Bay P 12 50 41 Penticton eP 12 52 40 Resolute eP 12 50 11 c Shawinigan Falls eP 12 50 14 Victoria eP 12 52 50	DECEMBER 2 Penticton eP 14 31 56
DECEMBER 2 Penticton eP 02 43 02		DECEMBER 2 Mould Bay iP 14 33 55 d
DECEMBER 2 Resolute eP 03 13 33		DECEMBER 2 Penticton eP 14 51 45
DECEMBER 2 Resolute eP 03 36 56		DECEMBER 2 Penticton eP 15 22 44
DECEMBER 2 Resolute eP 04 23 27	DECEMBER 2 Mould Bay P 13 33 32	DECEMBER 2 Mould Bay P 15 39 06
DECEMBER 2 Mould Bay P 04 58 24 Penticton eP 04 55 42	DECEMBER 2 U. S. C. G. S. 16.9S, 168.2E New Hebrides Islands H = 14 06 10.0 h = 219 km Penticton ep 14 19 03	DECEMBER 2 Resolute eP 16 15 15 ?
DECEMBER 2 Mould Bay P 07 29 58		DECEMBER 2 Mould Bay P 17 12 26

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 2
Mould Bay
iP 17 28 43

DECEMBER 2
Mould Bay
P 21 07 50

DECEMBER 3
Penticton
eP 07 00 12

DECEMBER 2
Resolute
eP? 18 12 38
i 18 13 52

DECEMBER 2
Mould Bay
P 21 29 01

DECEMBER 3
Penticton
eP 07 55 42

DECEMBER 2
Mould Bay
P 18 34 30

DECEMBER 2
Resolute
eP? 21 45 (28)
i 21 46 42

DECEMBER 3
U. S. C. G. S.
25. 0N, 122. 9E
Off coast of
Formosa

DECEMBER 2
U. S. C. G. S.
22. 7S, 175. 1W
Tonga Islands
H = 18 45 51. 6
h = 89 km
Penticton
iP 18 58 33 d

DECEMBER 2
Penticton
eP 22 56 09

H = 08 40 20. 6
h = 91 km
Alberni
eP 08 52 58
Alert, N. W. T.
iP 08 51 44 c

DECEMBER 2
U. S. C. G. S.
51. 8N, 179. 6E
Andreanof Islands
H = 19 19 58. 5
h = 81 km
Mould Bay
P 19 26 36
Resolute
eP? 19 27 28
i 19 28 54

DECEMBER 3
U. S. C. G. S.
17. 9N, 99. 3W
Guerrero Mexico
H = 01 00 35. 2
h = 31 km
Alert, N. W. T.
eP 01 11 20
Mould Bay
P 01 10 41
Penticton
iP 01 07 32 d
Resolute
eP? 01 10 17
Shawinigan Falls
eP 01 07 36 d

Banff
eP 08 53 08
Mould Bay
iP 08 51 40 c
Penticton
iP 08 53 04
Resolute
eP 08 52 10 c

DECEMBER 2
Mould Bay
P 19 55 26

DECEMBER 3
Penticton
iP 04 05 38

DECEMBER 3
U. S. C. G. S.
41. 4N, 70. 0E
Kirghiz, S. S. R.
H = 09 32 23. 1
h = 25 km
Mould Bay
P 09 42 41
Penticton
eP 09 45 16

DECEMBER 2
Mould Bay
iP 21 04 27 d

DECEMBER 3
Penticton
eP 06 10 42

DOMINION OBSERVATORIES

DECEMBER 3
Mould Bay
P 11 27 28
Shawinigan Falls
eP 11 24 15

DECEMBER 3
U. S. C. G. S.
24. 0S, 68. 1W
Northern Chile
H = 14 27 43. 4
h = 217 km
Penticton
iP 14 40 03 c

DECEMBER 3
U. S. C. G. S.
11. 6S, 166. 1E
Santa Cruz Islands
H = 16 14 31. 4
h = 122 km
Penticton
eP 16 27 15

DECEMBER 3
Resolute
i 16 47 55 ?

DECEMBER 3
Mould Bay
P 17 11 08

DECEMBER 3
U. S. C. G. S.
41. 2N, 44. 0E
Armenia S. S. R.
H = 18 31 59. 1
h = 49 km
Alert, N. W. T.
eP 18 41 02
Banff
eP 18 44 38

DECEMBER 3
Mould Bay
iP 18 42 19 d
Penticton
eP 18 44 48
Resolute
eP 18 42 09
Shawinigan Falls
eP 18 43 44

DECEMBER 3
U. S. C. G. S.
43. 6N, 134. 9E
Near Vladivostok,
U. S. S. R.
H = 19 55 05. 3
h = 420 km
Alberni
eP 20 05 10
Alert, N. W. T.
iP 20 03 51 d
Banff
eP 20 05 23
Mould Bay
eP 20 03 36 d
Penticton
iP 20 05 19
Resolute
eP 20 04 17
Shawinigan Falls
eP 20 07 08 c
Victoria
eP 20 05 09

DECEMBER 3
Alberni
eP 21 25 47
Penticton
eP 21 26 28

DECEMBER 3
Penticton
eP 23 08 06

DECEMBER 3
Penticton
eP 23 11 39

DECEMBER 3
Resolute
i 23 12 28

DECEMBER 4
Penticton
eP 03 29 45

DECEMBER 4
Penticton
eP 03 41 11

DECEMBER 4
U. S. C. G. S.
55. 2N, 159. 9W
South of Alaska
H = 03 42 38. 2
h = 106 km
Mould Bay
iP 03 48 06 d
Penticton
eP 03 48 01
Resolute
eP? 03 48 52?
Shawinigan Falls
eP 03 51 43

DECEMBER 4
Penticton
eP 04 37 41

DECEMBER 4
Mould Bay
P 05 15 41
Local ?

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 4

U. S. C. G. S.
5. 2S, 151. 6E
New Britain
H = 05 33 18. 5
h = 59 km
Mould Bay
P 05 46 36
Penticton
iP 05 46 29 d
Shawinigan Falls
eP' 05 52 12 d

DECEMBER 4

Penticton
eP 06 32 56

DECEMBER 4

U. S. C. G. S.
18. 9N, 68. 8W
South of Dominican
Republic
H = 07 36 26. 0
h = 164 km
Alert, N. W. T.
eP 07 46 42 c
Mould Bay
P 07 46 36

DECEMBER 4

U. S. C. G. S.
60. 3N, 160. 4E
Off coast of
Kamchatka
H = 08 20 14. 0
h = 15 km
Alert, N. W. T.
eP 08 27 18
Mould Bay
P 08 26 27
Penticton
eP 08 28 28
Resolute
eP? 08 27 24?
i 08 27 28
i 08 29 48

DECEMBER 4

Penticton
eP 10 28 43

DECEMBER 4

Mould Bay
P 12 39 55

DECEMBER 4

U. S. C. G. S.
33. 2N, 95. 3E
Tibet
H = 12 38 11. 9
h = 45 km
Alert, N. W. T.
eP 12 48 45

Banff
eP 12 51 17
Mould Bay
P 12 49 13
Penticton
eP 12 51 23
Resolute
eP 12 49 37
S 12 58 57
SPS 13 01 28
G 13 09 07
i 13 18 29
i 13 22 22

DECEMBER 4

Mould Bay
P 14 36 25
Penticton
eP 14 36 53

DECEMBER 5

H = 00 52 31
Mag 2. 0
Alberni
eP₁ 00 52 40. 1
eS₁ 00 52 46. 7
D = 54 km

DECEMBER 5

H = 03 13 49
Mag 2. 9
Penticton
iP_n 03 14 33. 5
iS_n 03 15 11. 0
D = 307 km

DECEMBER 5

U. S. C. G. S.
45. 9S, 74. 6W
Southern Chile
H = 06 44 12. 7
h = 25 km
Mould Bay
P' 07 03 11

DECEMBER 5

U. S. C. G. S.
16. 0S, 168. 1E
New Hebrides Islands
H = 13 02 31. 9
h = 145 km
Alberni
eP 13 15 06
Alert, N. W. T.
eP' 13 20 44
Mould Bay
P' 13 20 32
Penticton
eP 13 15 20
Resolute
eP' 13 20 (38)
i 13 20 44
Shawinigan Falls
eP' 13 21 06

DECEMBER 5

Resolute
eP 15 00 50

DOMINION OBSERVATORIES

DECEMBER 5
Mould Bay
P 15 31 45
Penticton
eP 15 29 41

DECEMBER 5
Penticton
eP 15 47 59

DECEMBER 5
U. S. C. G. S.
21. 0S, 178. 4W
New Hebrides Islands
H = 22 39 11. 0
h = 532 km
Penticton
eP 22 51 03

DECEMBER 5
H = 22 55 48
Mag 1. 4
Penticton
eP₁ 22 55 54. 4
eS₁ 22 55 59. 0
D = 38 km

DECEMBER 5
H = 23 11 48
Mag 1. 7
Penticton
eP₁ 23 11 59. 1
eS₁ 23 12 07. 3
D = 67 km

DECEMBER 6
Penticton
eP 00 16 14

DECEMBER 6
Penticton
eP 00 39 37

DECEMBER 6
Penticton
eP 00 59 08

DECEMBER 6
U. S. C. G. S.
37. 8N, 142. 6E
Off coast of
Honshu Japan
H = 02 15 59. 5
h = 47 km
Alert, N. W. T.
eP 02 25 58
Mould Bay
iP 02 25 32
Resolute
eP 02 26 14

DECEMBER 6
Penticton
eP 04 54 43
Resolute
eP? 04 55 20

DECEMBER 6
U. S. C. G. S.
13. 7N, 93. 6E
Andaman Islands
H = 05 48 39. 3
h = 53 km
Mag 5 3/4
Alert, N. W. T.
eP 06 01 05

Mould Bay
eP 06 01 28 c
Resolute
eP 06 01 45
PP 06 05 29
S? 06 12 41

DECEMBER 6
Penticton
eP 06 07 11

DECEMBER 6
Mould Bay
P 06 19 11
Penticton
eP 06 18 08

DECEMBER 6
47. 1°N, 121. 7°W
East of Seattle,
Washington, U. S. A.
H = 07 45 22
Mag 2. 1
Alberni
eP_n 07 46 05. 6
D = 300 km
Penticton
eP_n 07 45 55. 5
eS_n 07 46 21. 6
D = 214 km
Victoria
eP₁ 07 45 43. 4
eS₁ 07 45 59. 9
D = 135 km

DECEMBER 6
Mould Bay
iP 09 41 47 c
Local ?

DECEMBER 6
Penticton
eP 10 44 05

DECEMBER 6
Penticton
eP 11 08 36

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 6 Resolute i 13 04 45	DECEMBER 6 U. S. C. G. S. 49.4N, 155.2E Kurile Islands H = 16 39 31.5 h = 22 km Mag 6 Alberni eP 16 48 25 c Alert, N.W. T. eP 16 48 04 Banff eP 16 48 53 c Halifax eP 16 51 44.5 d?	DECEMBER 7 U. S. C. G. S. 23.4S, 175.9W Tonga Islands region H = 00 18 26.0 h = 45 km Penticton eP 00 31 16
DECEMBER 6 U. S. C. G. S. 23.5S, 176.0W Tonga Islands region H = 13 35 43.8 h = 18 km Mag 6 1/4 Alberni eP 13 48 23 Banff eP 13 48 50 Penticton iP 13 48 36 Victoria eP 13 48 22	Mould Bay iP 16 47 22 c Penticton iP 16 48 46 c Resolute iP 16 48 12 c Shawinigan Falls eP 16 51 18 Victoria eP 16 48 34 c	DECEMBER 7 Penticton eP 03 03 07
DECEMBER 6 Penticton eP 13 55 27	DECEMBER 6 Penticton eP 22 20 47	DECEMBER 7 Resolute eP 08 07 39
DECEMBER 6 Resolute i 14 04 18 i 14 14 29 i 14 35 02	DECEMBER 6 H = 22 52 28 Mag 2.2 Penticton eP ₁ 22 52 53.9 eS ₁ 22 53 13.6 D = 162 km	DECEMBER 7 Resolute i 09 49 44
DECEMBER 6 U. S. C. G. S. 23.7S, 175.7W Tonga Islands region H = 15 18 05.8 h = 29 km Penticton eP 15 30 59	DECEMBER 6 Penticton iP 23 19 30	DECEMBER 7 Mould Bay i 09 52 43 Resolute eP? 09 52 32 i 09 52 43 i 09 54 07
DECEMBER 6 Mould Bay iP 16 12 18 Local ?	DECEMBER 7 Resolute eP? 09 56 34 i 09 56 39	

DOMINION OBSERVATORIES

DECEMBER 7 Resolute i 12 03 10	DECEMBER 8 U. S. C. G. S. 23. 6S, 175. 8W Tonga Islands region H = 03 46 24. 5 h = 45 km Penticton eP 03 59 15	DECEMBER 8 Mould Bay iP 11 20 42 Local ?
DECEMBER 7 U. S. C. G. S. 22. 9S, 175. 9W Tonga Islands H = 14 24 00. 6 h = 27 km Penticton eP 14 36 51	DECEMBER 8 Penticton eP 04 52 32	DECEMBER 8 Penticton eP 14 55 32
DECEMBER 7 U. S. C. G. S. 25. 4S, 175. 4W Tonga Islands region H = 16 29 13. 3 h = 79 km Penticton eP 16 42 05	DECEMBER 8 Penticton eP 05 00 19	DECEMBER 8 Mould Bay P 20 40 36
DECEMBER 7 Penticton eP 19 42 51	DECEMBER 8 Resolute eP? 06 40 (20)	DECEMBER 8 Mould Bay P 21 46 00
DECEMBER 7 Penticton eP 20 50 13	DECEMBER 8 U. S. C. G. S. 16. 3N, 104. 3W South of Mexico H = 07 58 02. 0 h = 65 km Mould Bay P 08 08 06	DECEMBER 8 Mould Bay P 22 02 05
DECEMBER 7 Penticton eP 23 49 12	DECEMBER 8 U. S. C. G. S. 1. 8S, 139. 4E Near New Guinea H = 09 36 24. 9 h = 55 km Shawinigan Falls eP' 09 55 27 d	DECEMBER 8 Penticton eP 23 30 12
DECEMBER 8 Mould Bay P 03 17 16	DECEMBER 8 Mould Bay P 10 16 17	

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 9

U. S. C. G. S.
56. 3N, 153. 9W
Alaska region
H = 02 15 22. 0
h = 31 km
Mag 5 1/2
Alert, N. W. T.
iP 02 22 14 c
Banff
eP 02 20 24
Halifax
eP 02 24 53
Mould Bay
iP 02 20 36 c
Penticton
iP 02 20 12 d
Resolute
eP 02 21 20 c
Shawinigan Falls
eP 02 24 13
Victoria
eP 02 19 55

DECEMBER 9

Mould Bay
iP 04 42 13
Local ?
DECEMBER 9
U. S. C. G. S.
35. 9S, 179. 3W
Northeast of
New Zealand
H = 04 25 56. 6
h = 60 km
Mould Bay
P' 04 44 36

Mould Bay

P' 11 37 01
Penticton
eP 11 31 57
Resolute
e 11 36 10
iP' 11 37 08
S? 11 47 (34)
i 11 48 02
SS? 11 54 17
i 11 57 08
i 12 06 18
i 12 40 11
Shawinigan Falls
eP 11 31 05

DECEMBER 9

Penticton
eP 04 58 05
DECEMBER 9
Penticton
eP 07 29 04

DECEMBER 9

Penticton
eP 11 48 11

DECEMBER 9

Mould Bay
iP 19 47 21

DECEMBER 9

Mould Bay
P 02 44 34

DECEMBER 9

Resolute
eP 08 10 06?

DECEMBER 9

U. S. C. G. S.
21. 7S, 179. 9E
Fiji Islands
H = 19 49 41. 3
h = 620 km
Alberni
iP 20 01 23 d
Alert, N. W. T.
iP' 20 07 16 c
Banff
eP 20 01 52 d
Mould Bay
P 20 02 41
Penticton
iP 20 01 35 d
Resolute
eP' 20 07 06
Victoria
iP 20 01 24 d

DECEMBER 9

U. S. C. G. S.
14. 9S, 75. 7W
Off coast of Peru
H = 03 58 55. 4
h = 39 km
Halifax
eP 04 08 58
Mould Bay
P 04 12 15 c
Penticton
eP 04 10 36
Resolute
eP 04 11 54 c
Shawinigan Falls
eP 04 09 10

DECEMBER 9

Resolute
eP? 11 14 09

DECEMBER 9

U. S. C. G. S.
43. 7S, 75. 2W
Near coast of
Southern Chile
H = 11 18 08. 9
h = 34 km
Mag 6 3/4
Alert, N. W. T.
P' 11 37 07
Halifax
eP 11 31 00

DOMINION OBSERVATORIES

DECEMBER 9
Mould Bay
P 21 14 14

DECEMBER 9
Mould Bay
P 21 24 30
Penticton
eP 21 24 07

DECEMBER 9
U. S. C. G. S.
56. 3N, 153. 5W
Kodiak Island region
H = 21 21 49. 0
h = 19 km
Alert, N. W. T.
eP 21 28 40
Mould Bay
iP 21 27 01
Penticton
eP 21 26 38
Resolute
eP 21 27 47

DECEMBER 9
U. S. C. G. S.
23. 0S, 176. 8W
Tonga Islands region
H = 21 41 42. 1
h = 25 km
Penticton
eP 21 54 35

DECEMBER 9
Penticton
eP 22 22 38

DECEMBER 9
Mould Bay
P 23 57 19

DECEMBER 10
Penticton
eP 00 24 37

DECEMBER 10
Mould Bay
P 04 06 03
Local ?

DECEMBER 10
Penticton
eP 04 23 44

DECEMBER 10
U. S. C. G. S.
56. 5N, 152. 1W
Kodiak Island region
H = 04 58 41. 3
h = 68 km
Mould Bay
P 05 03 47 d
Penticton
iP 05 03 22 d
Resolute
eP 05 04 31

DECEMBER 10
Mould Bay
P 06 41 53
Local ?

DECEMBER 10
U. S. C. G. S.
38. 8N, 25. 7E
Aegean Sea
H = 08 39 11. 1
h = 79 km
Mould Bay
P 08 49 57
Resolute
eP? 08 49 40?
Shawinigan Falls
eP 08 50 24

DECEMBER 10
Mould Bay
P 12 26 38
Resolute
eP 12 27 18
eP 12 27 22
Penticton
eP 12 26 19

DECEMBER 10
U. S. C. G. S.
32°15'49"N,
103°51'57"W
Carlsbad, New Mexico
(Project Gnome)
H = 19 00 00
Mould Bay
P 19 08 14 d
Penticton
iP 19 04 41

DECEMBER 11
Penticton
eP 00 32 22

DECEMBER 11
Penticton
eP 00 40 10

DECEMBER 11
Penticton
eP 07 15 38

DECEMBER 11
Penticton
eP 09 22 26

DECEMBER 11
Penticton
eP 09 28 53

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 11
Mould Bay
P 09 34 46
Local ?

DECEMBER 11
Penticton
eP 10 16 37

DECEMBER 11
Penticton
eP 16 14 36

DECEMBER 11
U. S. C. G. S.
36.5N, 23.5E
Near coast of
Greece
H = 16 53 05.3
h = 25 km
Alert, N. W. T.
eP 17 02 25
Mould Bay
P 17 03 45
Resolute
eP 17 03 25
Shawinigan Falls
eP 17 04 09

DECEMBER 11
Mould Bay
iP 19 20 18
Local ?

DECEMBER 11
H = 20 36 09
Mag 1.9
Penticton
iP₁ 20 36 37.1
iS₁ 20 36 58.6
D = 176 km
Mag 1.9

DECEMBER 11
Penticton
eP 21 10 13

DECEMBER 12
Penticton
eP 00 12 25

DECEMBER 12
Penticton
eP 00 36 39

DECEMBER 12
Mould Bay
iP 10 34 52
Local ?

DECEMBER 12
U. S. C. G. S.
11.8N, 59.8W
Windward Islands
region
H = 11 18 14.8
h = 36 km
Mould Bay
P 11 29 37
Penticton
iP 11 28 33 d

DECEMBER 12
Mould Bay
iP 14 18 15
Local ?

DECEMBER 12
U. S. C. G. S.
21.7N, 146.0E
Mariana Islands region
H = 17 23 04.0
h = 24 km
Alert, N. W. T.
eP 17 34 43
Penticton
eP 17 34 57
Resolute
eP 17 34 55

DECEMBER 12
U. S. C. G. S.
18.9N, 107.6W
Revilla Gigedo Islands
region
H = 22 14 36.3
h = 33 km
Mould Bay
P 22 24 27
Resolute
eP 22 24 16
i 22 28 30
i 22 39 44
i 22 48 20
i 22 54 05

DECEMBER 12
U. S. C. G. S.
43.5N, 146.2E
Near coast of
Hokkaido Japan
H = 23 06 18.4
h = 44 km
Alberni
iP 23 16 10 c
Alert, N. W. T.
P 23 15 34
Banff
eP 23 16 37 c
Halifax
eP 23 19 09.5 d
i 23 19 26
Mould Bay
P 23 15 05

DOMINION OBSERVATORIES

Penticton iP 23 16 29 c	DECEMBER 13 Penticton eP 23 37 49	DECEMBER 14 Mould Bay P 01 54 49
Resolute eP 23 15 49 e 23 17 12 e 23 23 48	DECEMBER 13 Penticton eP 23 48 26	DECEMBER 14 Mould Bay P 02 49 56
Shawinigan Falls eP 23 18 45 c	DECEMBER 14 Penticton eP 00 01 23	DECEMBER 14 Resolute eP ? 06 45 38 ?
Victoria eP 23 16 18 c	DECEMBER 14 Penticton eP 00 52 23	DECEMBER 14 U. S. C. G. S. 3. 1S, 140. 9E Near coast of New Guinea H = 07 10 23. 2 h = 44 km Penticton eP 07 24 02 e 07 27 54
DECEMBER 13 Penticton eP 02 36 06	DECEMBER 14 Penticton eP 00 52 23	DECEMBER 14 U. S. C. G. S. 3. 1S, 140. 9E Near coast of New Guinea H = 07 10 23. 2 h = 44 km Penticton eP 07 24 02 e 07 27 54
DECEMBER 13 Mould Bay P 04 28 06	DECEMBER 14 Penticton eP 00 52 23	DECEMBER 14 U. S. C. G. S. 3. 1S, 140. 9E Near coast of New Guinea H = 07 10 23. 2 h = 44 km Penticton eP 07 24 02 e 07 27 54
DECEMBER 13 U. S. C. G. S. 26. 7N, 129. 6E Ryukyu Islands H = 08 40 57. 3 h = 161 km Alert, N. W. T. P 08 52 01 Mould Bay P 08 51 50 Resolute eP 08 52 23 iP 08 52 28 d	DECEMBER 14 43°50'N±18', 67°49'N±18' Atlantic Ocean about 40 miles from New England coast and 85 miles due west of Yarmouth, N. S. H = 01 49 35. 4 h = 25 km Mag 3. 9 Halifax P _n 01 50 23. 4 c P ₁ 01 50 32. 9 S _n 01 50 59. 4 S ₁ 01 51 12 D = 348 km Montreal iP ₁ 01 50 54. 0 c S _n 01 51 27. 6 S ₁ 01 51 53. 3 D = 496 km Shawinigan Falls S ₁ 01 51 52. 4 D = 492 km	DECEMBER 14 U. S. C. G. S. 3. 1S, 140. 9E Near coast of New Guinea H = 07 10 23. 2 h = 44 km Penticton eP 07 24 02 e 07 27 54 Resolute eP 07 24 15 eP 07 24 18 e 07 34 53 e 07 37 32 e 07 43 18 e 07 45 18 Shawinigan Falls eP' 07 29 37
DECEMBER 13 U. S. C. G. S. 50. 9S, 73. 0W Chile-Argentina border H = 11 23 28. 9 h = 82 km Mould Bay P' 11 42 29	DECEMBER 14 Mould Bay P 08 23 47	DECEMBER 14 Mould Bay P 12 10 07

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 14
Resolute
eP 17 34 57

DECEMBER 14
Resolute
eP 18 03 47

DECEMBER 14
U. S. C. G. S.
17.1S, 179.0W
Fiji Islands
H = 18 49 02.4
h = 394 km
Penticton
eP 19 00 54

DECEMBER 14
48.9°N, 125.4°W
Berkley Sound
H = 20 45 49
Mag 2.0
Alberni
iP₁ 20 45 57.6
iS₁ 20 46 03.9
D = 51 km
Penticton
eP_n 20 46 49.8
D = 430 km
Victoria
eP₁ 20 46 15.0
eS₁ 20 46 32.2
D = 150 km

DECEMBER 14
Penticton
eP 22 05 23

DECEMBER 14
Penticton
eP 23 27 01

DECEMBER 14
U. S. C. G. S.
26.1S, 179.3E
South of Fiji Islands
H = 23 26 02.8
h = 497 km

Penticton
eP 23 38 27

DECEMBER 15
Mould Bay
P 11 48 35
Penticton
eP 11 46 52

DECEMBER 15
U. S. C. G. S.
5.5S, 147.2E
Near coast of
New Guinea
H = 12 36 30.7
h = 181 km
Penticton
iP 12 49 39

DECEMBER 15
Mould Bay
P 14 20 54
Penticton
eP 14 18 10

DECEMBER 15
Mould Bay
P 14 57 18

DECEMBER 15
Mould Bay
P 18 20 29
Local ?

DECEMBER 15
Mould Bay
P 19 35 23

DECEMBER 15
U. S. C. G. S.
0.9N, 126.2E
Molucca Passage
H = 19 36 03.5
h = 47 km
Mould Bay
P 19 49 21

DECEMBER 15
Penticton
eP 21 37 06

DECEMBER 15
Penticton
eP 23 36 20

DECEMBER 15
Resolute
eP? 23 53 (59)

DECEMBER 16
U. S. C. G. S.
9.7N, 125.6E
Near coast of
Mindanao, Philippine
Islands
H = 01 37 18.1
h = 163 km
Mould Bay
P 01 49 45
Resolute
eP 01 50 12

DECEMBER 16
Mould Bay
P 02 22 14
Local ?

DOMINION OBSERVATORIES

DECEMBER 16 Resolute eP 04 18 04 ?	DECEMBER 16 U. S. C. G. S. 51. 9N, 160. 2E Near coast of Kamchatka H = 13 40 20.1 h = 23 km Alert, N. W. T. iP 13 48 31 c Mould Bay P 13 47 41 Penticton eP 13 49 06 Resolute eP 13 48 33	DECEMBER 16 Penticton iP 21 39 30 d
DECEMBER 16 Mould Bay P 04 21 55 Local ?		DECEMBER 16 H = 23 38 07 Mag 1. 8 Penticton eP ₁ 23 38 31.5 eS ₁ 23 38 50.5 D = 156 km
DECEMBER 16 Mould Bay P 08 38 28 Local ?		DECEMBER 17 Mould Bay P 00 36 46 Local ?
DECEMBER 16 U. S. C. G. S. 23. 9S, 175. 4W Tonga Islands region H = 09 59 11. 8 h = 25 km Penticton iP 10 12 06 c	DECEMBER 16 Mould Bay P 14 32 10 Local ?	DECEMBER 17 Penticton eP 00 59 41
DECEMBER 16 Alberni eP 10 57 05 Penticton eP 10 57 57 Victoria eP 10 57 22	DECEMBER 16 Mould Bay P 17 12 27 Local ?	DECEMBER 17 Mould Bay P 01 02 12
DECEMBER 16 Alberni eP 11 38 23 Penticton eP 11 38 23 Victoria eP 11 38 01	DECEMBER 16 H = 17 24 29 Mag 2. 0 Penticton eP _n 17 25 09.4 eS _n 17 25 33.3 D = 196 km	DECEMBER 17 Mould Bay iP 06 02 18 d
	DECEMBER 16 Penticton eP 17 28 22	DECEMBER 17 Canadian Arctic H = 09 24 42. 5 h = 25 km Mag 2. 4 Resolute eP _n 09 25 13. 8 iP ₁ 09 25 17. 5 i 09 25 32. 6 iS _n 09 25 36. 9 iS ₁ 09 25 44 D = 216 km
	DECEMBER 16 H = 18 25 08 Mag 2. 0 Penticton eP _n 18 25 37. 6 eS _n 18 26 00. 7 D = 189 km	

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 17
Mould Bay
P 14 42 28
Local ?

DECEMBER 17
Penticton
eP 16 52 45

DECEMBER 17
U.S.C.G.S.
14.4S, 75.8W
Near coast of Peru
H = 21 32 01.8
h = 85 km

Penticton
iP 21 43 35 c
Resolute
eP 21 44 53
Shawinigan Falls
eP 21 42 08

DECEMBER 17
U.S.C.G.S.
54.5S, 143.9E
South of Tasmania
H = 22 12 32.3
h = 45 km
Alert, N.W.T.
P' 22 32 20
Mould Bay
P' 22 31 59
Resolute
eP' 22 32 16
Shawinigan Falls
eP' 22 32 26

DECEMBER 17
Mould Bay
P 22 39 59
Resolute
eP 22 40 15
e 22 56 04
e 23 29 14

DECEMBER 17
Mould Bay
P 23 02 05

DECEMBER 18
U.S.C.G.S.
19.6N, 120.8E
Off coast of Luzon
Philippine Islands
H = 02 18 31.3
h = 32 km
Mould Bay
P 02 30 26
Resolute
eP 02 30 56

DECEMBER 18
Alert, N.W.T.
P 03 23 18
Mould Bay
P 03 23 31
Penticton
iP 03 23 04
Resolute
e 03 23 12

DECEMBER 18
Penticton
eP 03 26 29

DECEMBER 18
Penticton
eP 06 26 09

DECEMBER 18
Mould Bay
iP 06 41 35 c

DECEMBER 18
48.7°N, 128.0°W
West of Vancouver
Island
H = 07 15 58
Mag 3.0
Alberni
eP_n 07 16 34.4
eS_n 07 17 04.0
D = 242 km
Penticton
eP_n 07 17 29
D = 692 km
Victoria
eP_n 07 16 46.0
D = 338 km

DECEMBER 18
Mould Bay
P 09 31 48

DECEMBER 18
Mould Bay
P 15 52 12
Local

DECEMBER 18
U.S.C.G.S.
26.4N, 96.3E
Burma-India border
H = 16 42 21.6
h = 85 km
Mould Bay
iP 16 53 57 d
Resolute
eP 16 54 17

DECEMBER 18
Mould Bay
P 20 39 39
Local ?

DOMINION OBSERVATORIES

DECEMBER 18

48°50'N, 122°48'W

Washington, U.S.A.

H = 22 08 36

Mag 2.7

Alberni

iP₁ 22 09 03.3

iS₁ 22 09 24.2

D = 159 km

Penticton

eP_n 22 09 13.2

D = 253 km

Victoria

iP₁ 22 08 47.0

iS₁ 22 08 55.6

D = 57 km

DECEMBER 18

U.S.C.G.S.

21.3S, 174.2W

Tonga Islands

H = 22 24 49.8

h = 25 km

Penticton

eP 22 37 29

DECEMBER 19

H = 04 01 38

Mag 1.8

Penticton

iP_n 04 02 08.0

iS_n 04 02 31.8

D = 195 km

DECEMBER 19

Canadian Arctic

H = 06 19 41.6

Mag 2.5

Resolute

iP₁ 06 20 04.7

iS₁ 06 20 22.3

D = 144 km

DECEMBER 19

Penticton

eP 14 18 14

DECEMBER 19

U.S.C.G.S.

24.2N, 122.4E

Near coast of

Formosa

H = 17 30 09.7

h = 93 km

Mould Bay

P 17 41 35

Penticton

iP 17 43 00 d

DECEMBER 19

Mould Bay

P 18 44 28

DECEMBER 19

Penticton

eP 20 03 20

DECEMBER 19

Penticton

eP 22 04 54

DECEMBER 19

Penticton

eP 23 35 20

DECEMBER 20

Penticton

eP 07 06 32

Resolute

eP 07 06 36

DECEMBER 20

U.S.C.G.S.

4.6N, 75.6W

Colombia

H = 13 25 34.4

h = 176 km

Mag 6 3/4

Alberni

eP 13 35 31 d

Alert, N.W.T.

iP 13 37 14 d

Banff

iP 13 35 03 d

Halifax

eP 13 33 04 d?

Mould Bay

iP 13 37 00 d

Penticton

iP 13 35 11 d

Resolute

eP 13 36 33

Shawinigan Falls

iP 13 33 10 d

Victoria

iP 13 35 22 d

DECEMBER 20

Mould Bay

iP 18 01 27 d

DECEMBER 20

Penticton

eP 19 48 46

DECEMBER 20

Penticton

eP 23 08 14

DECEMBER 21

Resolute

e 19 37 09

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 21
 Canadian Arctic
 H = 20 03 38.1
 Mag 1.5
 Resolute
 eP₁ 20 04 07
 iS₁ 20 04 29
 D = 180 km

DECEMBER 21
 Pentiction
 eP 21 03 32

DECEMBER 22
 Pentiction
 eP 00 54 03

DECEMBER 22
 Mould Bay
 P 01 10 25
 Local ?

DECEMBER 22
 U. S. C. G. S.
 40.7N, 126.0W
 Off coast of
 California
 H = 11 26 45.2
 h = 25 km
 Mag 4.6
 Pentiction
 eP 11 29 09
 Resolute
 eP 11 33 54

DECEMBER 22
 U. S. C. G. S.
 56.2N, 154.3W
 Alaska
 H = 14 58 33.4
 h = 26 km
 Alert, N. W. T.
 iP 15 05 27 c

Mould Bay
 P 15 03 48
 Pentiction
 iP 15 03 26 c
 Resolute
 eP 15 04 32 c

DECEMBER 22
 Mould Bay
 P 15 47 08
 Pentiction
 iP 15 44 45 d

DECEMBER 22
 Pentiction
 eP 17 41 41

DECEMBER 22
 H = 22 45 38
 Mag 1.7
 Pentiction
 iP₁ 22 46 04.5
 iS₁ 22 46 24.3
 D = 162 km

DECEMBER 22
 Canadian Arctic
 H = 22 55 46.0
 Mag 2.7
 Resolute
 iP₁ 22 56 09.5
 iS₁ 22 56 25.0
 D = 127 km

DECEMBER 22
 U. S. C. G. S.
 18.6N, 145.6E
 Mariana Islands
 H = 22 46 24.6
 h = 155 km
 Alert, N. W. T.
 iP 22 57 09
 Mould Bay
 P 22 57 40

Pentiction
 eP 22 58 15
 Resolute
 eP 22 58 16

DECEMBER 22
 U. S. C. G. S.
 16.4N, 120.4E
 Near coast of Luzon,
 Philippine Islands
 H = 23 43 35.3
 h = 33 km
 Resolute
 eP 23 56 15 ?
 eP 23 56 22

DECEMBER 23
 Pentiction
 eP 04 51 31

DECEMBER 23
 U. S. C. G. S.
 44.9N, 111.2W
 Montana, U. S. A.
 H = 06 53 36.5
 h = 23 km

Banff
 eP 06 55 19
 Pentiction
 eP 06 55 23

DECEMBER 23
 Resolute
 eP? 07 09 06?

DECEMBER 23
 Pentiction
 eP 08 46 55

DECEMBER 23
 Resolute
 eP 12 55 51

DOMINION OBSERVATORIES

DECEMBER 23

U. S. C. G. S.
6.4N, 73.4W
Colombia
H = 14 36 27.1
h = 197 km
Mould Bay
iP 14 47 40 c
Penticton
iP 14 46 01

DECEMBER 23

Resolute
eP 17 05 28
e 17 07 11

DECEMBER 23

U. S. C. G. S.
34.9N, 137.6E
Near coast of
Honshu Japan
H = 19 11 54.5
h = 270 km
Penticton
eP 19 22 51

DECEMBER 23

Penticton
eP 19 30 25

DECEMBER 24

Alert, N. W. T.
iP 02 09 41 c
Banff
eP 02 09 20
Mould Bay
P 02 07 35
Penticton
eP 02 09 21
Resolute
eP 02 08 47?
eP 02 08 52

DECEMBER 24

U. S. C. G. S.
3.4S, 140.3E
New Guinea
H = 02 40 07.6
h = 29 km
Mould Bay
P 02 53 32
Penticton
eP 02 53 49

DECEMBER 24

U. S. C. G. S.
43.8N, 143.9E
Near coast of
Hokkaido Japan
H = 06 50 48.4
h = 79 km
Alert, N. W. T.
iP 07 00 03
Mould Bay
P 06 59 36
Penticton
iP 07 01 04 c
Resolute
iP 07 00 20 c
i 07 00 51

DECEMBER 24

U. S. C. G. S.
29.5N, 80.9E
Nepal
H = 07 13 25.4
h = 20 km
Mould Bay
P 07 25 00
Resolute
eP 07 25 13

DECEMBER 24

Alert, N. W. T.
iP 07 30 17

DECEMBER 24

U. S. C. G. S.
20.4S, 173.6W
Tonga Islands
H = 09 19 02.7
h = 45 km
Penticton
eP 09 31 26

DECEMBER 24

U. S. C. G. S.
5.7S, 80.9W
Near coast of Peru
H = 14 25 32.7
h = 52 km
Alert, N. W. T.
iP 14 38 20
Mould Bay
P 14 38 03
Resolute
eP 14 37 41
Shawinigan Falls
eP 14 34 49

DECEMBER 24

Mould Bay
P 17 36 36

DECEMBER 24

Resolute
eP 20 33 24
i 20 33 33

DECEMBER 24

Penticton
eP 20 47 55

DECEMBER 24

Penticton
eP 22 11 07

SEISMOLOGICAL BULLETIN - 1961

- DECEMBER 24
 U.S.C.G.S.
 38.3S, 74.6W
 Near coast of
 Chile
 H = 23 43 19.2
 h = 31 km
 Shawinigan Falls
 eP 23 55 50
- DECEMBER 25
 U.S.C.G.S.
 6.4N, 82.2W
 South of Panama
 H = 08 57 39.1
 h = 77 km
 Mould Bay
 P 09 09 00
 Penticton
 eP 09 06 52
- Victoria
 eP₁ 12 28 00.6
 eS₁ 12 28 13.0
 D = 102 km
- DECEMBER 25
 Penticton
 eP 13 46 59
- DECEMBER 25
 Penticton
 eP 00 05 20
- DECEMBER 25
 U.S.C.G.S.
 3.7S, 127.7E
 Ceram Sea
 H = 09 09 07.4
 h = 54 km
 Mould Bay
 P 09 22 46
 Resolute
 eP? 09 23 14
- DECEMBER 25
 U.S.C.G.S.
 20.4S, 173.7W
 Tonga Islands
 H = 13 55 38.8
 h = 64 km
 Penticton
 iP 14 08 05
- DECEMBER 25
 Mould Bay
 P 14 29 28
 Penticton
 eP 14 29 49
 Resolute
 eP 14 30 21?
 eP 14 30 35
- DECEMBER 25
 U.S.C.G.S.
 1.1S, 126.7E
 Spice Islands
 H = 08 13 07.2
 h = 25 km
 Mould Bay
 P 08 26 37
 Resolute
 eP? 08 27 04
- DECEMBER 25
 U.S.C.G.S.
 26.9N, 90.1E
 Bhutan-India
 border
 H = 11 19 11.9
 h = 46 km
 Mould Bay
 P 11 30 53
- DECEMBER 25
 U.S.C.G.S.
 3.7S, 127.7E
 Ceram
 H = 08 00 59.3
 h = 47 km
 Mould Bay
 P 08 14 39
- DECEMBER 25
 U.S.C.G.S.
 63.0°N±1°,
 92.0°W±1.5°
 W.S.W. of Chesterfield
 Inlet, N.W.T.
 H = 19 58 28.5
 Mag 5.1
 Mould Bay
 P_n 20 02 09
 D = 1755 km
 Penticton
 e 20 03 21
- DECEMBER 25
 U.S.C.G.S.
 48.0°N, 122.4°W
 Washington, U.S.A.
 H = 12 27 44
 Mag 2.2
 Penticton
 eP_n 12 28 22.0
 D = 254 km

DOMINION OBSERVATORIES

Resolute
 eP_n 20 01 06
 i 20 01 19 d
 iS_n 20 03 00
 Lg 20 04 18
 D = 1250 km
 Shawinigan Falls
 P_n 20 03 02.0
 S_n 20 06 16.0
 Lg 20 08 49.0
 D = 2175 km

DECEMBER 25
 U.S.C.G.S.
 39.4N, 76.9E
 China
 H = 21 51 06.9
 h = 167 km
 Mould Bay
 P 22 01 25
 Penticton
 eP 22 03 53

DECEMBER 26
 U.S.C.G.S.
 5.5S, 110.7E
 Java Sea
 H = 04 24 55.4
 h = 566 km
 Penticton
 iP' 04 42 47 c
 e 04 53 01
 Resolute
 eP' ? 04 42 26
 Shawinigan Falls
 eP' 04 43 20

DECEMBER 26
 Canadian Arctic
 H = 05 21 25.5
 Mag 3.0
 Resolute
 P_n 05 22 22
 i 05 23 11
 S₁ 05 23 24
 D = 420 km

DECEMBER 26
 U.S.C.G.S.
 44.2S, 38.1E
 Prince Edward
 Islands region
 H = 06 17 30.6
 h = 22 km
 Penticton
 e 06 48 55
 Resolute
 eP' ? 06 37 04
 e 06 58 47

DECEMBER 26
 Resolute
 eP ? 07 54 13
 i 07 54 54
 i 08 14 51

DECEMBER 26
 Canadian Arctic
 H = 14 54 09
 Mag 4.5
 Resolute
 P_n 14 56 54
 S_n 14 58 54
 Lg 15 00 10
 D = 1300 km

DECEMBER 26
 Penticton
 eP 22 47 58

DECEMBER 26
 Penticton
 eP 23 52 14

DECEMBER 27
 Penticton
 eP 00 21 58

DECEMBER 27
 U.S.C.G.S.
 22.3S, 67.6W
 Chile-Bolivia border
 H = 02 15 49.2
 h = 47 km
 Penticton
 eP 02 28 24
 Shawinigan Falls
 eP 02 26 55

DECEMBER 27
 Mould Bay
 P 03 22 11

DECEMBER 27
 Mould Bay
 P 04 07 06
 Resolute
 eP ? 04 06 47 ?

DECEMBER 27
 Mould Bay
 P 09 48 22
 Penticton
 eP 09 45 23

DECEMBER 27
 Penticton
 eP 10 55 24

DECEMBER 27
 Resolute
 eP 12 35 34

SEISMOLOGICAL BULLETIN - 1961

<p>DECEMBER 27 U. S. C. G. S. 53.4N, 160.3E Near coast of Kamchatka H = 15 19 15.8 h = 35 km Resolute eP 15 27 13</p>	<p>DECEMBER 28 Penticton eP 00 59 39 e 01 06 35 Resolute eP? 01 01 31 Shawinigan Falls eP 00 58 17</p>	<p>DECEMBER 29 Resolute i 00 39 05 e 00 44 (41)</p> <p>DECEMBER 29 Penticton eP 02 01 09</p>
---	--	--

<p>DECEMBER 27 Penticton eP 15 44 33 Resolute eP 15 46 47</p>	<p>DECEMBER 28 Penticton eP 05 17 25 Resolute eP 05 17 34?</p>	<p>DECEMBER 29 Mould Bay iP 03 11 11 Local ?</p>
---	--	--

<p>DECEMBER 27 Penticton eP 22 59 25</p>	<p>DECEMBER 28 Resolute eP 10 29 13</p>	<p>DECEMBER 29 Penticton eP 04 01 25</p>
--	---	--

<p>DECEMBER 27 U. S. C. G. S. 41.2S, 175.7E Near coast of New Zealand H = 23 48 01.3 h = 57 km Mag 6 3/4 Alert, N. W. T. P' 24 07 17 Mould Bay P' 24 06 56 Resolute eP' 24 07 06 i 24 10 32 Shawinigan Falls eP' 24 07 17</p>	<p>DECEMBER 28 Resolute eP 22 44 45</p>	<p>DECEMBER 29 Resolute i 05 27 37</p>
---	---	--

<p>DECEMBER 28 Resolute eP 00 17 37?</p>	<p>DECEMBER 28 Penticton eP 23 02 00</p> <p>DECEMBER 28 U. S. C. G. S. 12.4S, 166.3E Santa Cruz Islands region H = 23 55 57.6 h = 100 km Penticton eP 24 08 43 Shawinigan Falls eP' 24 14 38</p>	<p>DECEMBER 29 U. S. C. G. S. 42.6N, 142.7E Hokkaido Japan H = 08 00 08.9 h = 43 km Mould Bay P 08 09 08 Penticton eP 08 10 37 Resolute eP 08 09 51 c</p> <p>DECEMBER 29 U. S. C. G. S. 6.3S, 154.5E Solomon Islands H = 10 00 33.1 h = 44 km Mould Bay P 10 13 53</p>
--	--	--

DOMINION OBSERVATORIES

Penticton iP 10 13 40	DECEMBER 29 Mould Bay P 19 40 02	Penticton eP 00 46 46 Resolute eP 00 46 58 Shawinigan Falls eP 00 49 56 Victoria eP 00 46 22
DECEMBER 29 Mould Bay P 12 10 02	DECEMBER 29 Penticton eP 20 47 33	
DECEMBER 29 Mould Bay P 12 22 33-	DECEMBER 29 Penticton eP 21 50 28	DECEMBER 30 Penticton eP 01 18 41
DECEMBER 29 Penticton eP 13 57 26	DECEMBER 29 Penticton eP 21 54 48	DECEMBER 30 Mould Bay P 07 07 30 Penticton eP 07 04 46
DECEMBER 29 U. S. C. G. S. 13.6N, 92.4W Off coast of Guatemala H = 14 53 12.3 h = 37 km Mould Bay eP 15 03 49 c Penticton eP 15 01 03 Resolute eP 15 03 24 Shawinigan Falls iP 15 00 21 d Victoria eP 15 01 11	DECEMBER 29 Penticton eP 22 04 50	DECEMBER 30 U. S. C. G. S. 39.7N, 77.7E China H = 07 08 29 h = 35 km Alert, N. W. T. P 07 18 12 Mould Bay iP 07 19 03 c Penticton iP 07 21 31 Resolute eP 07 19 15
DECEMBER 29 Penticton iP 15 46 55	DECEMBER 30 U. S. C. G. S. 52.3N, 177.7E Rat Islands H = 00 39 24.1 h = 52 km Mag 6 3/4 Alberni eP 00 46 24 Alert, N. W. T. iP 00 47 15 d Banff eP 00 47 03 c Halifax iP 00 50 37.5 d Mould Bay P? 00 46 55	DECEMBER 30 U. S. C. G. S. 51.9N, 177.6E Rat Islands H = 08 53 14.4 h = 67 km Mould Bay P 08 59 55 Penticton eP 09 00 38

SEISMOLOGICAL BULLETIN - 1961

Shawinigan Falls	DECEMBER 30	Mould Bay
eP 09 03 51	Mould Bay	P 16 48 35
	P 10 54 36	Penticton
	Resolute	eP 16 49 17
DECEMBER 30	eP 10 55 15?	Resolute
U.S.C.G.S.		eP 16 49 27
22.9S, 175.2W		S? 16 55 37
Tonga Islands	DECEMBER 30	L 16 58 26
H = 08 59 31.7	Mould Bay	i 17 02 41
h = 41 km	iP 11 46 02 c	Shawinigan Falls
Penticton	Penticton	eP 16 52 29
iP 09 12 17	eP 11 46 09	
	Resolute	
	eP 11 46 52	DECEMBER 30
DECEMBER 30	i 11 49 45	U.S.C.G.S.
U.S.C.G.S.	Shawinigan Falls	8.7N, 126.3E
52.3N, 179.7E	eP 11 49 45	Near coast of
Rat Islands		Mindanao,
H = 09 17 21.1	DECEMBER 30	Philippine Islands
h = 57 km	Mould Bay	H = 18 18 32.6
Mould Bay	P 12 25 01	h = 119 km
P 09 23 55	Local ?	Mould Bay
Penticton		P 18 31 13
eP 09 24 36		Resolute
Shawinigan Falls		eP 18 31 40
eP 09 27 50	DECEMBER 30	
	Mould Bay	
	iP 15 26 19 c	DECEMBER 30
DECEMBER 30	Penticton	Penticton
U.S.C.G.S.	eP 15 26 09	eP 19 16 07
52.0N, 178.2E		
Rat Islands	DECEMBER 30	DECEMBER 30
H = 10 14 37.2	Mould Bay	Mould Bay
h = 62 km	P 15 35 21	P 22 27 31
Alert, N.W.T.	Penticton	Local ?
P 10 22 29	eP 15 35 57	
Mould Bay		
P 10 21 17		
Penticton		
eP 10 21 58	DECEMBER 30	DECEMBER 30
Resolute	U.S.C.G.S.	U.S.C.G.S.
eP? 10 22 13	51.7N, 178.5E	16.5N, 46.6W
e 10 31 14	Rat Islands	North Atlantic Ocean
	H = 16 41 51.5	H = 23 20 16.9
	h = 63 km	h = 32 km
	Alert, N.W.T.	Banff
	P 16 49 45	eP 23 30 51
		Mould Bay
		P 23 31 29
		Penticton
		iP 23 31 08 c

DOMINION OBSERVATORIES

Resolute e 23 30 51 ?	DECEMBER 31 U. S. C. G. S. 44.4N, 100.5W South Dakota, U. S. A. H = 16 35 58.7 h = 16 km Banff eP 16 38 54 Penticton eP 16 39 18 Victoria eP 16 39 51	DECEMBER 31 Penticton eP 19 10 57
DECEMBER 31 Penticton eP 06 46 47		DECEMBER 31 Penticton eP 19 59 21
DECEMBER 31 Penticton eP 08 26 03		DECEMBER 31 Canadian Arctic H = 20 11 15 Mag 3.5 Resolute P _n 20 12 43 S _n 20 13 47 D = 675 km
DECEMBER 31 Penticton eP 13 17 18 Victoria eP 13 17 19.3	DECEMBER 31 Resolute eP? 16 48 (07) i 16 50 49 i 16 51 38	
DECEMBER 31 Penticton eP 13 53 57	DECEMBER 31 Mould Bay P 16 52 21	DECEMBER 31 Penticton eP 21 44 23
DECEMBER 31 U. S. C. G. S. 1.6N, 127.3E Halmahera H = 13 46 01.8 h = 140 km Mould Bay iP 13 59 04 c Penticton eP' 14 03 25 Resolute eP 13 59 31 c	DECEMBER 31 U. S. C. G. S. 51.8N, 171.2W Fox Islands H = 17 48 27.8 h = 47 km Mould Bay P 17 54 49 Resolute eP 17 55 39 e 18 14 11	
DECEMBER 31 Mould Bay P 16 01 27 Penticton eP 16 02 10 Resolute eP 16 02 20 S? 16 08 30 G 16 11 24	DECEMBER 31 U. S. C. G. S. 18.2N, 105.8W Off coast of Mexico H = 18 04 25.4 h = 32 km Mould Bay P 18 14 22 Shawinigan Falls eP 18 11 59	

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the last quarter of 1961. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

OCTOBER 4 at 04 33 42 U. T. Magnitude 3.1. Originated 44 km from Resolute, N. W. T., at a depth of about 20 km.

OCTOBER 5 at 06 33 40 U. T. Magnitude 2.1. Originated 66 km from Resolute, N. W. T.

OCTOBER 11 at 19 47 17 ? U. T. Magnitude 3.1. Originated 123 km from Resolute, N. W. T.

OCTOBER 11 at 23 58 46 U. T. Magnitude 2.3. Originated 123 km from Resolute, N. W. T. Possibly an aftershock of the preceding earthquake.

OCTOBER 14 at 18 18 20 U. T. Magnitude 4.8. Originated 1200 km from Resolute, N. W. T.

OCTOBER 16 at 17 54 12 U. T. Magnitude 4.0. Originated 740 km from Resolute, N. W. T.

OCTOBER 31 at 18 18 09 U. T. Magnitude 1.6. Originated 221 km from Resolute, N. W. T.

NOVEMBER 1 at approximately 21 hrs. U. T. Magnitude 2.4. Originated 230 km from Alert, N. W. T.

NOVEMBER 3 at 00 27 07 U. T. Magnitude 2.4. Originated 230 km from Alert, N. W. T.

NOVEMBER 4 at 10 44 21 U. T. Magnitude 1.3. Originated 82 km from Resolute, N. W. T.

NOVEMBER 9 at 16 34 19 U. T. Magnitude 2.4. Originated 92 km from Resolute, N. W. T.

NOVEMBER 10 at 05 32 24 U. T. Magnitude 3.4. Originated 450 km from Resolute, N. W. T.

NOVEMBER 10 at 19 23 34 U. T. Magnitude 3.9. Originated 382 km from Resolute, N. W. T., at a depth of about 27 km.

NOVEMBER 10 at 22 43 29 U. T. Magnitude 5.5. Epicentre $62.5^{\circ}\text{N} \pm 1.0^{\circ}$, $124.4^{\circ}\text{W} \pm 1.5^{\circ}$. About 110 miles W.N.W. of Fort Simpson, Mackenzie, N. W. T.

DOMINION OBSERVATORIES

NOVEMBER 11 at 02 11 50 U. T. Magnitude 3.9. Originated 382 km from Resolute, N. W. T., at a depth of about 27 km. Believed to be an aftershock of the earthquake on November 10 at 19 23 34 U. T.

NOVEMBER 22 at 19 56 21 U. T. Magnitude 4.0. Epicentre $80.0^{\circ}\text{N} \pm 0.4^{\circ}$, $111.7^{\circ}\text{W} \pm 1.5^{\circ}$. Queen Elizabeth Islands region about 100 miles north of Borden Island, N. W. T.

NOVEMBER 26 at 19 07 38 U. T. Magnitude 2.0. Originated 275 km from Resolute, N. W. T.

NOVEMBER 30 at 08 41 08 U. T. Magnitude 2.0. Originated 62 km from Resolute, N. W. T.

DECEMBER 6 Mould Bay iP 09 41 47 c appears local.

DECEMBER 8 Mould Bay iP 11 20 42 Local?

DECEMBER 9 Mould Bay P 04 42 13 Local?

DECEMBER 10 Mould Bay P 04 06 03 Local?

DECEMBER 10 Mould Bay P 06 41 53 Local?

DECEMBER 11 Mould Bay P 09 34 46 Local?

DECEMBER 11 Mould Bay iP 19 20 18 Local?

DECEMBER 12 Mould Bay iP 10 34 52 Local?

DECEMBER 12 Mould Bay iP 14 18 15 Local?

DECEMBER 15 Mould Bay P 18 20 29 Local?

DECEMBER 16 Mould Bay P 02 22 14 Local?

DECEMBER 16 Mould Bay P 04 21 55 Local?

DECEMBER 16 Mould Bay P 08 38 28 Local?

DECEMBER 16 Mould Bay P 14 32 10 Local?

DECEMBER 16 Mould Bay P 17 12 27 Local?

DECEMBER 17 Mould Bay P 00 36 46 Local?

DECEMBER 17 at 09 24 42.5 U. T. Magnitude 2.4. Originated 216 km from Resolute, N. W. T.

SEISMOLOGICAL BULLETIN - 1961

DECEMBER 17 Mould Bay P 14 42 28 Local?

DECEMBER 18 Mould Bay P 15 52 12 Local?

DECEMBER 18 Mould Bay P 20 39 30 Local?

DECEMBER 19 at 06 19 42 U. T. Magnitude 2.5. Originated 144 km from Resolute, N. W. T.

DECEMBER 21 at 20 03 38.1 U. T. Magnitude 1.5. Originated 180 km from Resolute, N. W. T.

DECEMBER 22 Mould Bay P 01 10 25 Local?

DECEMBER 22 at 22 55 46 U. T. Magnitude 2.7. Originated 127 km from Resolute, N. W. T.

DECEMBER 25 Mould Bay P 17 12 21 Local ?

DECEMBER 25 at 19 58 29 U. T. Magnitude 5.1. Epicentre 63.0°N $\pm 1^{\circ}$, $92.0^{\circ}\text{W} \pm 1.5^{\circ}$. About 50 miles WSW of Chesterfield Inlet, N. W. T.

DECEMBER 26 at 05 21 26 U. T. Magnitude 3.0. Originated 420 km from Resolute, N. W. T.

DECEMBER 26 at 14 54 09 U. T. Magnitude 4.5. Originated 1300 km from Resolute, N. W. T.

DECEMBER 29 Mould Bay P 03 11 11 Local?

DECEMBER 29 Mould Bay P 22 43 59 Local?

DECEMBER 30 Mould Bay P 12 25 01 Local?

DECEMBER 31 at 20 11 15 U. T. Magnitude 3.5. Originated 675 km from Resolute, N. W. T.

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the last quarter of 1961. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

OCTOBER 7 at 22 36 51 U. T. Magnitude 3.8. Epicentre $48^{\circ}40'N \pm 12'$, $76^{\circ}35'W \pm 12'$. Depth about 8 km. About 40 miles ENE of Senneterre, Que.

OCTOBER 31 at 23 50 U. T. Magnitude less than 1.7. $46^{\circ}06'N$, $64^{\circ}47'W$ (Moncton, N. B.). This shock was felt by quite a number of people in Moncton, N. B. It was not recorded at Halifax 200 km distant, from which it is inferred that the magnitude was below 1.7. However radio station CKCW at Moncton was reported to have received hundreds of calls.

NOVEMBER 1 at 03 41 21 U. T. Magnitude 2.9. $46^{\circ}55'N \pm 15'$, $79^{\circ}15'W \pm 15'$. Near Tee Lake, 17 miles NW of Timiskaming, Ont. Felt in the epicentral area. Mr. Wm. Irwin mayor of Timiskaming, forwarded felt reports from the area. These were greatly appreciated as they made it possible to determine the epicentre which was close to that of the large earthquake in the same region November 1, 1935.

DECEMBER 14 at 01 49 35 U. T. Magnitude 3.9. Epicentre $43^{\circ}50'N \pm 18'$, $67^{\circ}49'W \pm 18'$. Depth about 25 km. In the Atlantic Ocean about 40 miles off the New England coast and 85 miles due west of Yarmouth, N. S.

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN WESTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the fourth quarter of 1961. The times of observed phases are given at their respective chronological positions in the text of this bulletin. In some cases, although they are not included in the text, readings from Hungry Horse, in Montana, U.S.A., and Seattle, Wash., U.S.A., were used to compute epicentres. The quality (Q) of the epicentre is indicated by a letter from "a" meaning an excellent fit of the observed data to "d" meaning a very poor solution.

OCTOBER 1 at 11 39 39. Magnitude 2. 87 km from Penticton.

OCTOBER 2 at 12 52 26. Magnitude 2.0. Epicentre at 49.7°N, 118.6°W, between Okanagan Lake and Lower Arrow Lake.

OCTOBER 2 at 23 31 27. Magnitude less than 2. 151 km from Penticton.

OCTOBER 3 at 17 34 05.5. Magnitude 2.1. 252 km from Penticton.

OCTOBER 3 at 21 49 28. Magnitude 1.6. 68 km from Penticton.

OCTOBER 4 at 19 42 37. Magnitude 1.9. 147 km from Penticton.

OCTOBER 4 at 23 43 42. Magnitude 2.0. 236 km from Penticton.

OCTOBER 5 at 01 10 30. Magnitude 2.6. 288 km from Penticton.

OCTOBER 8 at 00 01 27. Magnitude 1.9. 152 km from Penticton.

OCTOBER 9 at 23 52 49. Magnitude 1.9. 205 km from Penticton.

OCTOBER 11 at 22 20 55. Magnitude 2.3. 326 km from Penticton.

OCTOBER 12 at 19 27 43. Magnitude 1.9. 160 km from Penticton.

OCTOBER 12 at 23 50 54. Magnitude 2.2. 167 km from Penticton.

OCTOBER 13 at 16 33 37. Magnitude 2.1. 184 km from Penticton.

OCTOBER 13 at 21 24 57. Magnitude 1.6. 167 km from Penticton.

OCTOBER 14 at 19 57 45. Magnitude 1.5. 139 km from Penticton.

OCTOBER 15 at 04 53 13. Magnitude 2.7. Epicentre at 47°12'N, 123°14'W, which is west of Puget Sound near Sheldon, Wash.

DOMINION OBSERVATORIES

- OCTOBER 16 at 12 34 46. Magnitude 2.5. 92 km from Victoria.
- OCTOBER 17 at 19 38 50. Magnitude 1.8. 165 km from Penticton.
- OCTOBER 18 at 13 45 59. Magnitude 2.2. Mount Baker area.
- OCTOBER 18 at 21 32 57. Magnitude 2.0. 152 km from Penticton.
- OCTOBER 18 at 21 47 23. Magnitude 2.2. 159 km from Penticton.
- OCTOBER 18 at 23 56 59. Magnitude 1.9. 171 km from Penticton.
- OCTOBER 19 at 19 03 46. Magnitude 1.7. 159 km from Penticton.
- OCTOBER 19 at 19 34 43. Magnitude 2.0. 140 km from Penticton.
- OCTOBER 19 at 20 37 50. Magnitude 3.0. Epicentre at 47.5°N, 122.9°W, in the Olympic Mountains, southwest of Seattle, Wash, U.S.A. Felt.
- OCTOBER 20 at 23 53 51. Magnitude 1.9. 165 km from Penticton.
- OCTOBER 22 at 10 36 58. Magnitude 2.1. 77 km from Victoria, and 230 km from Penticton.
- OCTOBER 25 at 20 12 16. Magnitude 1.4. 80 km from Penticton.
- OCTOBER 27 at 00 55 20. Magnitude 2.0. 150 km from Penticton.
- OCTOBER 27 at 19 52 11. Magnitude 1.4. 68 km from Penticton.
- OCTOBER 27 at 19 55 03. Magnitude 2.2. 147 km from Penticton.
- OCTOBER 27 at 23 37 46. Magnitude 2.0. 195 km from Penticton.
- OCTOBER 28 at 00 14 34. Magnitude 2.1. 198 km from Penticton
- OCTOBER 28 at 00 17 37. Magnitude 1.8. 193 km from Penticton.
- OCTOBER 28 at 22 37 18. Magnitude 1.6. 123 km from Penticton.
- OCTOBER 29 at 09 12 15.7. Magnitude 4.8. Epicentre at 49.0°N, 128.7°W, west of Vancouver Island.
- OCTOBER 29 at 11 10 22? Aftershock of previous.
- OCTOBER 29 at 11 17 00 Aftershock of previous.

SEISMOLOGICAL BULLETIN - 1961

OCTOBER 29 at 14 00 12.0. Magnitude 3.2. Epicentre at 49.4°N, 127.6°W, west of Vancouver Island.

OCTOBER 29 at 14 47 18.3. Magnitude 3.8. Epicentre at 48.7°N, 128.3°W, west of Vancouver Island.

The following are considered to be aftershocks of the previous series of earthquakes:

OCTOBER 29 at 18 28; 19 29.

OCTOBER 30 at 01 45; 02 17.

OCTOBER 31 at 03 34 30.3. Magnitude 3.0. 111 km from Penticton.

OCTOBER 31 at 23 24 44. Magnitude 2.2. 146 km from Penticton.

NOVEMBER 1 at 21 24 36. Magnitude 2.3. 254 km from Penticton.

NOVEMBER 1 at 22 15 25. Magnitude 1.7. 102 km from Penticton.

NOVEMBER 2 at 20 55 41. Magnitude 1.9. 148 km from Penticton.

NOVEMBER 2 at 22 42 59. Magnitude 1.6. 147 km from Penticton.

NOVEMBER 4 at 23 22 48. Magnitude 2.4. 206 km from Penticton.

NOVEMBER 5 at 07 52 22. Magnitude 1.8. 52 km from Victoria.

NOVEMBER 6 at 19 49 04. Magnitude 2.3. 150 km from Penticton.

NOVEMBER 6 at 22 21 27. Magnitude 1.7. 33 km from Banff.

NOVEMBER 8 at 00 38 07. Magnitude 2.0. 156 km from Penticton.

NOVEMBER 8 at 19 05 12. Magnitude 1.6. 82 km from Penticton.

NOVEMBER 8 at 20 58 35. Magnitude 2.5. 216 km from Penticton.

NOVEMBER 9 at 18 22 17. Magnitude 2.2. 156 km from Penticton.

NOVEMBER 9 at 22 28 50. Magnitude 2.1. 162 km from Penticton.

NOVEMBER 10 at 22 32 45. Magnitude 2.5. 194 km from Penticton.

NOVEMBER 11 at 01 59 04. Magnitude 1.7. 64 km from Penticton.

NOVEMBER 11 at 15 22 28. Magnitude 2.3. 199 km from Penticton.

DOMINION OBSERVATORIES

- NOVEMBER 12 at 17 51 10. Magnitude 2.1. Epicentre on southern Vancouver Island.
- NOVEMBER 13 at 23 53 21. Magnitude 2.5. 189 km from Penticton.
- NOVEMBER 14 at 21 31 02. Magnitude 2.0. 173 km from Penticton.
- NOVEMBER 14 at 23 05 54. Magnitude 2.4. 162 km from Penticton.
- NOVEMBER 14 at 23 17 12. Magnitude 2.5. 290 km from Penticton.
- NOVEMBER 14 at 23 25 31. Magnitude 1.8. 157 km from Penticton.
- NOVEMBER 15 at 06 47 09. Magnitude 2.2. 47.9°N, 123.2°W. Epicentre in Olympic Mountains, Wash., U.S.A.
- NOVEMBER 15 at 17 27 07. Magnitude 2.2. Epicentre at 48°52'N, 121°53'W, in the Mount Baker area, Wash., U.S.A.
- NOVEMBER 16 at 22 53 17. Magnitude 1.5. 100 km from Penticton.
- NOVEMBER 18 at 23 11 27. Magnitude 2.5. Epicentre is probably southwest of Victoria.
- NOVEMBER 20 at 19 45 10. Magnitude 2.0. 160 km from Penticton.
- NOVEMBER 21 at 01 49 13. Magnitude 2.1. 53 km from Alberni.
- NOVEMBER 21 at 21 25 30. Magnitude 2.5. 275 km from Penticton.
- NOVEMBER 22 at 16 40 12. Magnitude 2.1. 147 km from Penticton.
- NOVEMBER 23 at 19 53 29. Magnitude 2.2. 161 km from Penticton.
- NOVEMBER 24 at 00 57 20. Magnitude 2.5. 98 km from Alberni.
- NOVEMBER 26 at 00 01 33. Magnitude 2.2. Epicentre is probably under northern Strait of Georgia.
- NOVEMBER 27 at 04 00 57. Magnitude 2.2. 72 km from Alberni.
- NOVEMBER 27 at 19 48 39. Magnitude 2.0. 149 km from Penticton.
- NOVEMBER 28 at 03 07 56. Magnitude 2.5. Epicentre at 47.1°N, 122.5°W, in the Puget Sound basin, Wash., U.S.A.
- NOVEMBER 28 at 05 19 20. Magnitude 1.9. 265 km from Victoria.

SEISMOLOGICAL BULLETIN - 1961

- NOVEMBER 28 at 20 42 00. Magnitude 1.9. 52 km from Alberni.
- NOVEMBER 28 at 23 24 28. Magnitude 1.7. 62 km from Alberni.
- NOVEMBER 28 at 23 45 05. Magnitude 1.6. 56 km from Alberni.
- NOVEMBER 30 at 08 12 50. Magnitude 3.1. Epicentre at 47.2°N, 122.1°W, east of Seattle, Wash., U.S.A.
- DECEMBER 1 at 19 59 20. Magnitude 1.9. 164 km from Penticton.
- DECEMBER 2 at 00 18 39. Magnitude 2.4. 177 km from Penticton.
- DECEMBER 5 at 00 52 31. Magnitude 2.0. 54 km from Alberni.
- DECEMBER 5 at 03 13 49. Magnitude 2.9. 307 km from Penticton.
- DECEMBER 5 at 22 55 48. Magnitude 1.4. 38 km from Penticton.
- DECEMBER 5 at 23 11 48. Magnitude 1.7. 67 km from Penticton.
- DECEMBER 6 at 07 45 22. Magnitude 2.1. Epicentre at 47.1°N, 121.7°W, east of Seattle, Wash., U.S.A.
- DECEMBER 6 at 22 52 28. Magnitude 2.2. 162 km from Penticton.
- DECEMBER 11 at 20 36 09. Magnitude 1.9. 176 km from Penticton.
- DECEMBER 14 at 20 45 49. Magnitude 2.0. Epicentre at 48.9°N, 125.4°W, in Barkley Sound.
- DECEMBER 16 at 17 24 29. Magnitude 2.0. 196 km from Penticton.
- DECEMBER 16 at 18 25 08. Magnitude 2.0. 189 km from Penticton.
- DECEMBER 16 at 23 38 07. Magnitude 1.8. 156 km from Penticton.
- DECEMBER 18 at 07 15 58. Magnitude 3.0. Epicentre at 48.7°N, 128.0°W, west of Vancouver Island.
- DECEMBER 18 at 22 08 36. Magnitude 2.7. Epicentre at 48°50'N, 122°48'W, northwest of Bellingham, Wash., U.S.A.
- DECEMBER 19 at 04 01 38. Magnitude 1.8. 195 km from Penticton.
- DECEMBER 22 at 22 45 38. Magnitude 1.7. 162 km from Penticton.
- DECEMBER 25 at 12 27 44. Magnitude 2.2. Epicentre at 48.0°N, 122.4°W, near Whidbey Island, Wash., U.S.A.