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SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

Seismological Bulletin
October - December
1960

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1961

SEISMOLOGICAL BULLETIN - 1960

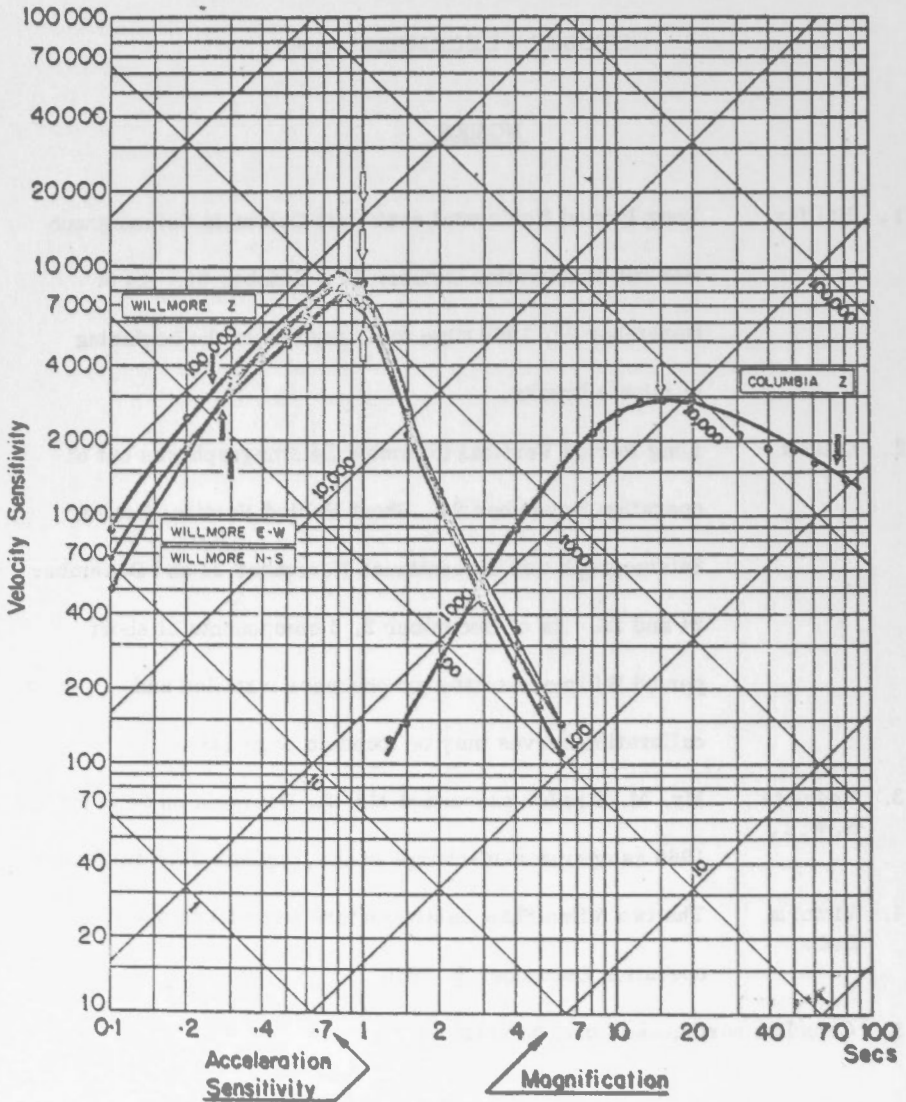
OCTOBER - DECEMBER - 1960

NOTES

1. Halifax Long Period Horizontal east west Columbia Seismograph was out of operation October 17 - October 31. As of December 28, 1960 time to be read from the beginning of minute breaks.
2. Ottawa Long Period Vertical Columbia Seismograph was out of operation November 24. Short Period Vertical Benioff Seismograph was discontinued November 24 and December 24 and 25. As of December 2, 3 components of short period Willmore seismographs were installed and calibration curves may be found on page 148.
3. Resolute N. W. T. Mr. M. Strader succeeded Mr. R. Bourgoin on September 1, 1960 as operator-in-charge of the Resolute Seismic Station.
4. Victoria B. C. The two Milne Shaw Seismometers were taken out of operation December 8, 1960.
5. Canadian earthquakes may be found on pages 193 to 200.

CALIBRATION CURVES

STATION: OTTAWA



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

Foundation : Boulder clay on limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: Columbia Dec-12-1956
 Willmore Dec-2-1960
 Willmore N-S-Dec-9-1960
 Willmore E-W-Dec-9-1960

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OCTOBER 1

U. S. C. G. S.
23. 3N, 94. 6E
Burma
H = 03 00 50. 2
h = 67 km
Resolute
iP 03 13 07 c

Halifax

P 16 21 44 c (?)
Ottawa
iP 16 21 00
Resolute
eP 16 18 08 ?
eS 16 24 09 ?
Seven Falls
eP 16 21 09
Shawinigan Falls
eP 16 21 04
Victoria
iP 16 17 15 d,S,W

OCTOBER 3

U. S. C. G. S.
29. 8N, 68. 2E
West Pakistan
H = 00 49 11. 8
h = 36 km
Resolute
eP 01 00 54 ?

OCTOBER 1

U. S. C. G. S.
34. 4N, 26. 2E
Near Crete
H = 05 30 38. 1
h = 36 km

Halifax
P 05 41 26
Ottawa
eP 05 42 08
Resolute
iP 05 41 07 c ?
Seven Falls
eP 05 41 45
Shawinigan Falls
eP 05 41 53

OCTOBER 1

Resolute
eP 10 51 47

OCTOBER 3

U. S. C. G. S.
36. 8N, 140. 1E
Honshu, Japan
H = 02 33 28. 3
h = 60 km
Resolute
eP 02 43 53

OCTOBER 2

Resolute
eP 04 57 09

OCTOBER 3

U. S. C. G. S.
38. 7S, 75. 3W
Near coast of
southern Chile
H = 05 10 37. 3
h = 43 km
Ottawa
eP 05 23 05
Seven Falls
eP 05 23 14
Shawinigan Falls
eP 05 23 11

OCTOBER 1

Resolute
eP 07 02 09
iS? 07 04 59

OCTOBER 2

Resolute
eP 05 57 54

OCTOBER 2

Resolute
eP 06 32 30

OCTOBER 1

Victoria
eP 16 08 44

OCTOBER 2

U. S. C. G. S.
18. 6N, 94. 9E
Burma
H = 18 08 12. 4
h = 104 km
Resolute
iP 18 20 50

OCTOBER 4

Canadian Arctic
H = 02 27 50. 3
Mag 1. 9
Resolute
P₁ 02 28 31
S₁ 02 29 02
D = 254 km

OCTOBER 1

U. S. C. G. S.
52. 2N, 172. 6W
Fox Islands
H = 16 10 56. 9
h = 41 km
Mag 6
Alberni
eP 16 17 06

DOMINION OBSERVATORIES

OCTOBER 4

Canadian Arctic
H = 04 04 29.7
Mag 1.9
Resolute
P₁ 04 05 04.5
S₁ 04 05 31
D = 217 km

OCTOBER 5

48°36'N, 123°52'W
Southwestern
Vancouver Island
H = 02 59 47
Mag 2.4

Alberni
iP₁ 02 59 59.3
iS₁ 03 00 09.5
D = 80 km
Victoria
iP₁ 02 59 58.2
iS₁ 03 00 08.8
D = 72 km

OCTOBER 5

H = 08 24 58
Mag 1.9
Victoria
eP₁ 08 25 14.0
eS₁ 08 25 27.1
D = 108 km

OCTOBER 6

U. S. C. G. S.
52.2N, 107.2E
Lake Baikal region
H = 16 19 15.4
h = 46 km
Resolute
eP 16 28 29 d ?
eS? 16 35 56 ?

OCTOBER 6

U. S. C. G. S.
38.3S, 74.9W
Near coast of
southern Chile
H = 16 16 37.6
h = 53 km
Ottawa
eP 16 29 03
Seven Falls
eP 16 29 13
Shawinigan Falls
eP 16 29 10 d

OCTOBER 6

U. S. C. G. S.
58.2N, 31.6W
North Atlantic Ocean
H = 19 55 42.2
h = 63 km

Halifax
iP 20 00 50 c
Ottawa
eP 20 01 44
Resolute
eP 20 01 31 c ?
eS 20 06 16
Seven Falls
eP 20 01 11
Shawinigan Falls
eP 20 01 23

OCTOBER 7

U. S. C. G. S.
58.1N, 31.9W
North Atlantic Ocean
H = 03 15 34.9
h = 71 km
Mag 4 1/2
Resolute
eP 03 21 24
eS? 03 26 11
Seven Falls
eP 03 21 03
Shawinigan Falls
eP 03 21 14

OCTOBER 7

U. S. C. G. S.
7.4S, 130.7E
Banda Sea
H = 15 18 30.8
h = 45 km
Mag 6 1/2
Halifax
P' 15 37 56
Ottawa
eP' 15 37 39
Resolute
iP 15 32 51
S 15 43 24
e 15 48 12
Seven Falls
eP' 15 37 45
Victoria
eP 15 32 42
e 15 36 58

OCTOBER 8

H = 00 37 23
Mag 2.0
Alberni
iP₁ 00 37 32.3
iS₁ 00 37 39.1
D = 56 km

OCTOBER 8

U. S. C. G. S.
16.7N, 97.9W
Oaxaca Mexico
H = 01 51 51.2
h = 74 km
Mag 4 3/4
Ottawa
eP 01 58 32 c
Resolute
iP 02 01 38
Seven Falls
eP 01 59 03
Shawinigan Falls
iP 01 58 50 ? c

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OCTOBER 8

U. S. C. G. S.
40. 0N, 129. 7E
Sea of Japan
H = 05 53 01. 1
h = 608 km
Mag 6 1/2
Ottawa
iP 06 05 10 c
Resolute
iP 06 02 26 c
iS 06 10 02
Seven Falls
eP 06 05 06
Shawinigan Falls
iP 06 05 07 ? c

OCTOBER 8

Canadian Arctic
H = 06 49 20. 4
h = 15 km
Mag 3. 2
Resolute
P_n 06 50 20
P₁ 06 50 31
S₁ 06 51 03. 5
S₁ 06 51 24. 5
D = 440 km

OCTOBER 8

H = 10 54 24. 7
Mag 2
Alberni
eP 10 54 49. 4
iS₁ 10 55 01. 1
Victoria
iP₁ 10 54 32. 9
iS₁ 10 54 49. 4

OCTOBER 8

U. S. C. G. S.
7. 9N, 92. 9E
Nicobar Islands
H = 20 40 06. 6
h = 84 km
Resolute
eP 20 53 36

OCTOBER 9

U. S. C. G. S.
40. 8N, 141. 2E
Near coast of northern
Honshu, Japan
H = 09 00 42. 0
h = 155 km
Mag 6 1/4

Halifax

eP 09 13 39. 5 c (?)
Ottawa
iP 09 13 20 d
Pentiction
eP 09 11 15
Resolute
iP 09 10 29 d ?
iS 09 18 28
Seven Falls
eP 09 13 19

OCTOBER 9

U. S. C. G. S.
15. 1S, 174. 0W
Samoa Islands region
H = 09 51 19. 1
h = 129 km
Pentiction
eP 10 03 20
Victoria
eP 10 03 06

OCTOBER 9

Ottawa
eP 10 11 35

OCTOBER 9

Pentiction
eP 20 36 44

OCTOBER 10

H = 15 06 38
Mag 2. 5
Pentiction
eP₁ 15 07 04. 7
eS₁ 15 07 25. 0
D = 166 km

OCTOBER 10

U. S. C. G. S.
47. 0N, 153. 5E
Ryukyu Islands
H = 16 15 58. 9
h = 22 km
Pentiction
eP 16 24 30
Victoria
eP 16 25 16

OCTOBER 10

H = 23 24 25
Mag 2. 5
Alberni
eP₁ 23 24 42. 2
eS₁ 23 24 55. 0
D = 105 km

OCTOBER 10

53°N, 133°W
Off southern
Queen Charlotte Islands
H = 23 54 32
Mag 4. 5
Alberni
iP_n 23 55 57. 2
iS_n 23 56 20. 3
D = 640 km

DOMINION OBSERVATORIES

Penticton eP _n 23 56 43.7 D = 1050 km	OCTOBER 11 46.0N, 122.2W Northeast of Portland Oregon, U.S.A. H = 11 54 48 Mag 3.5	OCTOBER 12 15.1S, 173.2W Samoa Islands region H = 09 11 16.4 h = 25 km Penticton eP 09 23 26
Victoria iP _n 23 56 14.3 eS _n 23 56 41.9 D = 780 km	Alberni eP _n 11 55 45.8 eS _n 11 56 31.5 D = 418 km	
OCTOBER 11 U.S.C.G.S. 38.1N, 107.6W Western Colorado H = 08 05 30.5 h = 49 km Mag 4 3/4	Penticton eP _n 11 55 45.5 eS _n 11 56 40.2 D = 418 km	OCTOBER 13 U.S.C.G.S. 54.8N, 161.2E Kamchatka H = 14 52 34.7 h = 35 km Mag 6 3/4
Alberni eP 08 09 24	Victoria eP _n 11 55 30.0 eS _n 11 56 04.4 D = 290 km	Alberni iP 15 00 40
Halifax eP 08 11 56		Halifax eP 15 04 08 c
Ottawa eP 08 10 51 c	OCTOBER 11 H = 12 48 15 Mag 3.1	Ottawa eP 15 03 38
Penticton eP 08 08 47	Penticton iP _n 12 49 12.8 iS _n 12 50 05.3 D = 418 km	Penticton eP 15 01 01
Resolute eP 08 12 38		Resolute eP 15 00 21 c eS 15 06 33
Shawinigan Falls eP 08 11 11		Seven Falls eP 15 03 40
	OCTOBER 12 48.0N, 123.6W Southwest of Port Angeles Washington, U.S.A. H = 05 17 14 Mag 2.3	Shawinigan Falls eP 15 03 40 c
OCTOBER 11 North of Portland Oregon, U.S.A. H = 10 41 51 Mag 3.1	Alberni iP ₁ 05 17 41.3 iS ₁ 05 18 05.3 D = 168 km	OCTOBER 13 U.S.C.G.S. 20.7N, 144.8E
Penticton eP _n 10 42 51.9 eS _n 10 43 42.0 D = 440 km	Victoria iP ₁ 05 17 22.7 iS ₁ 05 17 29.8 D = 58 km	Mariana Islands region H = 16 45 56.2 h = 25 km
Victoria eP _n 10 42 31.8 eS _n 10 43 09.7 D = 275 km		Resolute eP 16 57 53 c ?

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OCTOBER 13
Resolute
eP 20 26 26

OCTOBER 14
U. S. C. G. S.
10.1N, 125.3E
Near coast of Leyte
Philippine Islands
H = 00 58 05.0
h = 17 km
Resolute
eP 01 11 14

OCTOBER 14
Canadian Arctic
H = 08 11 50.8
Mag 2.5
Resolute
P₁ 08 12 00
S₁ 08 12 07
D = 57.4 km

OCTOBER 14
U. S. C. G. S.
59.8N, 136.4W
Southeastern Alaska
H = 13 12 07.9
h = 32 km
Alberni
e 13 18 33
Ottawa
eP 13 19 27
Penticton
e 13 18 31
Resolute
iP 13 16 53 d
Seven Falls
eP 13 19 38
Shawinigan Falls
eP 13 19 32
Victoria
eP 13 15 23

OCTOBER 14
U. S. C. G. S.
37.9S, 74.7W
Off coast of Chile
H = 17 48 28.5
h = 25 km
Mag 5 1/4
Halifax
eP 18 00 54
Ottawa
eP 18 00 55
Seven Falls
eP 18 00 55
Shawinigan Falls
eP 18 01 02

OCTOBER 14
Canadian Arctic
H = 20 46 49.8
h = 20 km
Mag 2.7
Resolute
P_n 20 47 21.8
P₁ 20 47 24.0
i 20 47 27.2
S_n 20 47 44.5
S₁ 20 47 49.4
D = 210 km

OCTOBER 14
U. S. C. G. S.
51.7N, 172.1W
Fox Islands
H = 21 19 11.4
h = 50 km
Mag 6 1/2
Alberni
eP 21 25 21
Halifax
iP 21 29 56 c
Ottawa
iP 21 29 13 d
Penticton
eP 21 25 46
Resolute
iP 21 26 24
PP? 21 27 54
eS 21 32 10

Seven Falls
eP 21 29 22
Shawinigan Falls
eP 21 29 18 d
Victoria
eP 21 25 28

OCTOBER 14
U. S. C. G. S.
55.5N, 35.2W
North Atlantic Ocean
H = 22 55 41.7
h = 40 km
Halifax
eP 23 00 23
Ottawa
eP 23 01 27
Resolute
eP 23 01 46
Shawinigan Falls
eP 23 01 05

OCTOBER 15
U. S. C. G. S.
55.6N, 35.6 W
North Atlantic Ocean
H = 01 54 09.2
h = 37 km
Ottawa
eP 01 59 53
Resolute
eP 02 00 12
Seven Falls
eP 01 59 17
Shawinigan Falls
eP 01 59 31

OCTOBER 15
Canadian Arctic
H = 02 48 47.2
h = 24 km
Mag 1.5
Resolute
P_n 02 49 12.3
P₁ 02 49 13.8
S_n 02 49 30.9
S₁ 02 49 34
D = 164 km

DOMINION OBSERVATORIES

OCTOBER 15

U. S. C. G. S.
23. 1N, 123. 4E
Off coast of Formosa
H = 11 30 02. 1
h = 60 km
Resolute
eP 11 42 05 c?

OCTOBER 16

U. S. C. G. S.
9. 4N, 90. 6W
Off coast of
Nicaragua
H = 09 34 00. 9
h = 25 km
Mag 5
Ottawa
iP 09 41 21 c
Penticton
eP 09 42 51
Resolute
eP 09 44 47
Seven Falls
eP 09 41 49
Shawinigan Falls
eP 09 41 39
Victoria
eP 09 42 41

OCTOBER 16

Alberni
iP 10 17 01
Penticton
eP 10 17 48
Victoria
eP 10 17 13

OCTOBER 16

U. S. C. G. S.
63. 0N, 151. 7W
Central Alaska
H = 17 53 26. 6
h = 100 km
Resolute
eP 17 58 18
Shawinigan Falls
eP 18 01 34

OCTOBER 16

U. S. C. G. S.
52. 4N, 153. 4E
Kurile Islands
H = 19 20 39. 6
h = 324 km
Resolute
iP 19 28 31 d
Shawinigan Falls
eP 19 31 41

OCTOBER 17

U. S. C. G. S.
4. 8N, 78. 4W
Off coast of
Columbia
H = 15 45 36. 9
h = 83 km
Mag 4 3/4
Halifax
P 15 53 22
S 15 59 38
Ottawa
iP 15 53 12 d
Penticton
iP 15 55 14 c
Resolute
eP 15 56 44 d ?
eS 16 05 56
Seven Falls
eP 15 53 29 d
Shawinigan Falls
iP 15 53 23 d
Victoria
iP 15 55 25 d,S,E

OCTOBER 17

U. S. C. G. S.
5. 1N, 78. 1W
Near coast of Columbia
H = 15 56 08. 6
h = 25 km
Shawinigan Falls
eP 16 04 00

OCTOBER 17

U. S. C. G. S.
30. 7N, 40. 4W
Atlantic Ocean
H = 18 05 32. 7
h = 65 km
Resolute
eP 18 14 33 d ?
Shawinigan Falls
eP 18 11 43

OCTOBER 17

Resolute
iP 19 05 59

OCTOBER 17

U. S. C. G. S.
31. 7N, 40. 7W
Atlantic Ocean
H = 19 02 20. 9
h = 47 km
Halifax
eP 19 07 16
S 19 11 20
Resolute
eP 19 11 17
Shawinigan Falls
eP 19 08 18

OCTOBER 17

Resolute
eP 20 39 06

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<p>OCTOBER 17 U. S. C. G. S. 14. 6N 92. 8W Mexico - Guatemala border H = 22 15 32. 0 h = 128 km Mag 5 3/4 Halifax S 22 29 07 Ottawa eP 22 22 08 Penticton eP 22 23 09 i 22 24 43 Resolute eP 22 25 30 Seven Falls eP 22 22 38 Shawinigan Falls eP 22 22 28 d Victoria iP 22 23 29 d</p>	<p>OCTOBER 18 U. S. C. G. S. 14. 5N, 92. 6W Mexico-Guatemala border H = 06 34 11. 0 h = 112 km Resolute eP 06 44 12</p> <p>OCTOBER 19 Canadian Arctic H = 00 23 03. 6 Mag 1. 6 Resolute P₁ 00 23 11. 5 S₁ 00 23 17. 5 D = 49. 2 km</p> <p>OCTOBER 19 Resolute eP 05 16 50</p> <p>OCTOBER 19 Resolute iP 06 37 41</p> <p>OCTOBER 19 Resolute eP 09 16 19 ?</p> <p>OCTOBER 19 Resolute eP 11 38 39 ?</p> <p>OCTOBER 20 Victoria eP 06 37 34 d</p> <p>OCTOBER 20 Resolute eP ? 08 53 14 ?</p>	<p>OCTOBER 20 U. S. C. G. S. 11. 0S, 164. 9E Santa Cruz Islands H = 11 05 38. 3 Mag 6 1/4 Halifax iP' 11 25 01 Penticton eP 11 18 51 Seven Falls iP' 11 24 50 c Shawinigan Falls eP' 11 24 48 Victoria eP 11 18 39</p> <p>OCTOBER 20 Resolute eP 12 50 24</p> <p>OCTOBER 20 Resolute eP 12 57 08 d ?</p> <p>OCTOBER 20 U. S. C. G. S. 45. 3N, 147. 0E Kurile Islands region H = 23 40 08. 2 h = 25 km Resolute iP 23 49 29 d ?</p> <p>OCTOBER 21 Resolute eP 00 01 15</p>
<p>OCTOBER 17 Victoria iP 22 24 52 d</p> <p>OCTOBER 17 Resolute iP 22 27 06 c</p> <p>OCTOBER 18 U. S. C. G. S. 52. 5N, 170. 2W Fox Islands H = 00 21 47. 2 h = 33 km Mag 4 3/4 Halifax eP 00 32 24 Ottawa eP 00 31 41 Shawinigan Falls eP 00 31 46 d</p>		

DOMINION OBSERVATORIES

OCTOBER 22	Penticton	OCTOBER 26
U. S. C. G. S.	eP 06 42 27	Penticton
10. 3S, 161. 2E	Resolute	eP 17 45 08
Solomon Islands	eP 06 41 22	
region	Seven Falls	
H = 08 22 00.9	eP 06 38 14 d	OCTOBER 27
h = 93 km	Shawinigan Falls	Penticton
Mag 6 1/4	eP 06 38 23	eP 05 33 26
Halifax		
eP' 08 40 59		
Ottawa	OCTOBER 23	OCTOBER 27
eP' 08 40 45	Resolute	U. S. C. G. S.
Resolute	eP 15 52 20	1. 4N, 90. 9W
eP 08 36 18?		Galapagos Islands
PP 08 39 32?		region
eS 08 46 28?	OCTOBER 23	H = 05 25 03.6
Seven Falls	Resolute	h = 46 km
eP' 08 40 47	eP 21 58 51	Mag 4 3/4
Shawinigan Falls		Ottawa
eP' 08 40 48		eP 05 33 24 d
Victoria	OCTOBER 24	
eP 08 34 45	U. S. C. G. S.	
	15. 0N, 167. 4E	OCTOBER 27
	New Hebrides Islands	H = 07 34 59.5
	region	Mag 1.7
OCTOBER 22	H = 05 12 04.4	Penticton
Canadian Arctic	Penticton	iP ₁ 07 35 13.7
H = 15 27 36.5	eP 05 24 56	iS ₁ 07 35 34.4
h = 14 km	e 05 41 37 ?	D = 88 km
Mag 4.1		
Resolute	OCTOBER 26	OCTOBER 27
P _n 15 29 12.5	U. S. C. G. S.	U. S. C. G. S.
i 15 29 34	52. 4N, 160. 1E	16. 3N, 121. 3E
S _n 15 30 21	Near coast of Kamchatka	Luzon Philippine Islands
S ₁ 15 30 57	H = 01 48 04.1	H = 10 51 35.8
D = 730 km	h = 53 km	h = 54 km
	Resolute	Resolute
OCTOBER 23	eP? 01 56 13?	eP? 11 04 14?
U. S. C. G. S.		
31. 2N, 40. 7W	OCTOBER 26	OCTOBER 27
Atlantic Ocean	Resolute	U. S. C. G. S.
H = 06 32 24.9	eP? 12 04 20	71. 6N, 8. 3W
h = 61 km		Jan Mayen Island
Halifax		region
eP 06 37 20 d		H = 12 45 40.1
iS 06 41 26		h = 70 km
		Resolute
		eP 12 50 45

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OCTOBER 27	Seven Falls	Ottawa
Resolute	eP 04 25 54	eP 13 29 36 d
eP? 14 43 05?	Shawinigan Falls	Penticton
	eP 04 26 04	eP 13 27 01
	Victoria	Resolute
	eP 04 27 48	iP 13 26 24
OCTOBER 27		eS 13 32 54
U.S.C.G.S.		S _c S? 13 36 08
71.3N, 8.6W	OCTOBER 28	Seven Falls
Jan Mayen Island	U.S.C.G.S.	eP 13 29 37 d
region	71.5N, 7.7W	Shawinigan Falls
H = 15 39 20.3	Jan Mayen Island	eP 13 29 36 d
h = 43 km	region	Victoria
Resolute	H = 05 27 16.1	iP 13 26 49 c
eP 15 44 30	h = 77 km	
	Resolute	
	eP 05 32 23	
OCTOBER 27		OCTOBER 28
U.S.C.G.S.		H = 19 55 23.2
15.2S, 175.0W		Mag 2.2
Samoa Islands region	OCTOBER 28	Alberni
H = 22 27 55.1	U.S.C.G.S.	iP ₁ 19 55 32.9
h = 253 km	71.3N, 8.4W	iS ₁ 19 55 40.3
Banff	Jan Mayen Island	D = 60 km
iP 22 39 59 d	H = 07 46 38.5	
Penticton	h = 61 km	
iP 22 39 43	Ottawa	
Victoria	eP 07 54 21	OCTOBER 28
iP 22 39 31 d	Penticton	U.S.C.G.S.
	eP 07 55 31	34.4N, 141.1E
	Resolute	Near coast of Honshu
	eP 07 51 43	Japan
	Seven Falls	H = 22 29 26.6
	eP 07 53 44	h = 96 km
	Shawinigan Falls	Penticton
	eP 07 53 54	eP 22 40 34
OCTOBER 28		OCTOBER 29
U.S.C.G.S.		H = 01 47 33.6
71.3N, 8.6W	OCTOBER 28	Mag 2.7
Jan Mayen Island	U.S.C.G.S.	Penticton
H = 04 18 41.9	52.0N, 157.4E	iP ₁ 01 47 57.3
h = 48 km	Kamchatka	iS ₁ 01 48 15.6
Mag 5 1/2	H = 13 18 14.3	D = 150 km
Banff	h = 38 km	
eP 04 27 14	Alberni	
Halifax	eP 13 26 42	
eP 04 25 54	Banff	
Ottawa	iP 13 27 08 c	
eP 04 26 21	Halifax	
Penticton	eP 13 30 03 d	
eP 04 27 36		
Resolute		
eP 04 23 48		
eS 04 28 01		

DOMINION OBSERVATORIES

OCTOBER 29 U. S. C. G. S. 15. 4N, 46. 4W North Atlantic Ocean H = 04 17 02. 1 h = 38 km Halifax eP 04 23 34 Ottawa eP 04 24 26 Penticton eP 04 27 57 Resolute eP? 04 27 41 ? Seven Falls eP 04 24 17 Shawinigan Falls eP 04 24 21	OCTOBER 29 Halifax eP 13 31 34 Resolute eP 13 33 38	OCTOBER 30 U. S. C. G. S. 47. 5N, 28. 7W North Atlantic Ocean H = 08 32 39. 1 h = 25 km Resolute eP 08 40 04
OCTOBER 29 U. S. C. G. S. 15. 8S, 172. 9W Samoa Islands region H = 09 37 41. 6 h = 99 km Mag 5 1/2 Penticton eP 09 49 44 Victoria eP 09 49 32	OCTOBER 29 U. S. C. G. S. 12. 3N, 121. 0E Philippine Islands H = 17 11 59. 3 h = 65 km Resolute eP? 17 24 57	OCTOBER 30 Resolute eP 08 41 32
OCTOBER 29 U. S. C. G. S. 47. 4N, 27. 6W North Atlantic Ocean H = 11 54 17. 4 h = 25 km Halifax eP 11 59 42 Resolute eP 12 01 45	OCTOBER 29 U. S. C. G. S. 12. 0N, 140. 9E Mariana Islands region H = 21 44 37. 2 h = 25 km Resolute eP 21 57 22	OCTOBER 30 Penticton eP 10 41 59
OCTOBER 29 U. S. C. G. S. 49. 8N, 156. 0E Kamchatka H = 23 42 16. 4 h = 25 km Resolute eP 23 50 47	OCTOBER 29 Penticton eP 23 26 09	OCTOBER 30 U. S. C. G. S. 23. 3S, 70. 3W Near coast of Chile H = 12 14 36. 1 h = 76 km Mag 6 3/4 Alberni eP 12 27 22 Banff eP 12 27 03 Halifax iP 12 25 32 c? Ottawa eP 12 25 35 Penticton eP 12 27 06 Seven Falls eP 12 25 46 Shawinigan Falls eP 12 25 42 d Victoria eP 12 27 14 c

SEISMOLOGICAL BULLETIN - 1960

OCTOBER 30
 U. S. C. G. S.
 51. 2N, 157. 0E
 Near south coast
 of Kamchatka
 H = 16 16 22. 9
 h = 42 km
 Pentiction
 eP 16 25 19
 Resolute
 eP? 16 24 42

OCTOBER 30
 Pentiction
 eP 20 04 04

OCTOBER 30
 U. S. C. G. S.
 22. 8S, 68. 0W
 Chile-Bolivia border
 H = 21 32 47. 7
 h = 60 km
 Mag 6 3/4
 Alberni
 eP 21 45 33
 Banff
 iP 21 45 16 d
 i 21 45 43 d
 Halifax
 iP 21 43 41 d
 Ottawa
 iP 21 43 17 d
 Pentiction
 eP 21 45 21 d
 i 21 45 47
 Resolute
 eP 21 46 25
 Seven Falls
 iP 21 43 56 d
 Shawinigan Falls
 eP 21 43 54 d
 Victoria
 iP 21 45 27 d

OCTOBER 30
 Resolute
 eP 22 02 51
 OCTOBER 31
 U. S. C. G. S.
 30. 3N, 113. 5W
 Gulf of California
 H = 07 03 43. 7
 h = 25 km
 Resolute
 eP? 07 11 42
 e 07 13 49

OCTOBER 31
 Pentiction
 eP 07 11 17

OCTOBER 31
 Banff
 eP 07 17 21
 Pentiction
 eP 07 17 18

OCTOBER 2
 U. S. C. G. S.
 25. 3N, 141. 3E
 South of Bonin Islands
 H = 20 50 29. 9
 h = 25 km
 Resolute
 eP 21 02 05 c

OCTOBER 31
 U. S. C. G. S.
 54. 7N, 161. 8E
 Near coast of
 Kamchatka
 H = 23 44 18. 9
 h = 60 km
 Resolute
 eP 23 52 03
 e 23 54 08

NOVEMBER 1
 U. S. C. G. S.
 11. 1S, 12. 7W
 Ascension Island
 region
 H = 06 15 29. 4
 h = 35 km
 Mag 5
 Halifax
 P 06 26 56
 Ottawa
 eP 06 27 37
 Seven Falls
 eP 06 27 26
 Shawinigan Falls
 eP 06 27 30

NOVEMBER 1
 48°42'N, 123°12'W
 Gulf Islands ,
 British Columbia
 H = 06 34 02
 Mag 1. 7
 Alberni
 eP₁ 06 34 23. 7
 eS₁ 06 34 40. 0
 D = 136 km
 Victoria
 iP₁ 06 34 05. 6
 iS₁ 06 34 08. 4
 D = 23 km

NOVEMBER 1
 47. 1N, 126. 4W
 Off coast of
 Washington, U. S. A.
 H = 08 37 23
 Mag 3. 0
 Pentiction
 eP_n 08 38 37. 7
 eS_n 08 38 43. 7
 D = 561 km
 Victoria
 eP_n 08 38 05. 2
 eS_n 08 38 41. 1
 D = 294 km

DOMINION OBSERVATORIES

NOVEMBER 1

Victoria
eP 08 53 06

NOVEMBER 1

U. S. C. G. S.
38. 4S, 74. 4W
Near coast of Chile
H = 08 46 01.9
h = 97 km
Mag 6 3/4
Banff
eP 08 59 21
Halifax
iP 08 58 23.5 d
iS 09 08 42
Ottawa
iP 08 58 25 d
Resolute
eP' 09 04 35
Seven Falls
iP 08 58 34 d
Shawinigan Falls
iP 08 58 31 d
Penticton
eP 08 59 44
e 09 03 16
Victoria
eP 08 59 27

NOVEMBER 1

U. S. C. G. S.
5. 5S, 102. 4E
Near coast of
Sumatra
H = 10 23 57.2
h = 43 km
Resolute
eP' 10 42 33

NOVEMBER 1

H = 16 12 41
Mag 1.0
Penticton
iP₁ 16 12 45.4
iS₁ 16 12 49.0
D = 30 km

NOVEMBER 1

U. S. C. G. S.
50. 1N, 153. 9E
Near coast of
Kamchatka
H = 19 06 22.7
h = 162 km
Halifax
P 19 18 20
Resolute
eP 19 14 46 d

NOVEMBER 1

U. S. C. G. S.
45. 1N, 111. 2W
Hebgen Lake Montana
H = 22 26 52.7
h = 38 km
Banff
e 22 30 20
Penticton
eP 22 28 35
iL 22 30 00
Resolute
e 22 42 43 ?
Victoria
e 22 31 29

NOVEMBER 2

H = 00 01 40
Mag 0.6
Victoria
eP₁ 00 01 43.1
eS₁ 00 01 45.5
D = 20 km

NOVEMBER 2

U. S. C. G. S.
57. 6N, 153. 8W
Kodiak Island Alaska
H = 15 29 48.8
h = 96 km
Banff
eP 15 34 46
Penticton
eP 15 34 36
Resolute
eP 15 35 30
Victoria
eP 15 34 14

NOVEMBER 2

U. S. C. G. S.
23. 1N, 93. 8E
Burma - east
Pakistan border
H = 16 31 53.5
h = 126 km
Resolute
iP 16 44 05 d ?

NOVEMBER 2

U. S. C. G. S.
10. 9S, 164. 9E
Santa Cruz Islands
H = 17 14 49.3
h = 25 km
Alberni
eP 17 27 29.4
Banff
eP 17 27 58 d
Halifax
eP' 17 33 52 d
Ottawa
iP' 17 33 37 d
Resolute
eP 17 28 50
eS 17 39 29 ?
Seven Falls
eP' 17 33 42 d
Shawinigan Falls
eP' 17 33 40

SEISMOLOGICAL BULLETIN - 1960

Penticton
eP 17 27 44 c
Victoria
eP 17 27 33 d,N,E

NOVEMBER 2
U. S. C. G. S.
44.8S, 80.2E
South Indian Ocean
H = 18 09 48.8
h = 23 km

Resolute
eP' 18 29 35
i 18 29 40

NOVEMBER 2
Victoria
eP 20 19 11 c

NOVEMBER 2
48°28'N, 123°52'W
Southern Vancouver
Island
H = 22 25 29
Mag 2.0
Alberni
eP₁ 22 25 47.6
eS₁ 22 26 00.5
D = 113 km
Victoria
iP₁ 22 25 34.7
iS₁ 22 25 38.6
D = 32 km

NOVEMBER 3
48°00'N, 74°52'W
About 15 miles west of
Parent Quebec,
Felt at Parent
H = 04 11 46.9
Mag 2.7
Montreal
P₁ 04 12 34.1
S₁ 04 13 10.0
D = 294 km

Ottawa
i 04 12 46.7
S₁ 04 13 11
D = 297.5 km
Seven Falls
S₁ 04 13 17.5
D = 318.8 km
Shawinigan Falls
S₁ 04 12 51.7
D = 229 km

NOVEMBER 3
Alberni
iP 16 01 23.9
Penticton
eP 16 02 12
Victoria
eP 16 01 38

NOVEMBER 4
49.1°N, 120.6°W
Near Copper Mountain
British Columbia
H = 00 29 14
Mag 1.5
Penticton
iP₁ 00 29 27.0
iS₁ 00 29 40.2
D = 82 km
Victoria
eP 00 29 46.8
D = 216 km

NOVEMBER 4
Victoria
iP 01 37 27 c

NOVEMBER 4
Canadian Arctic
H = 09 54 35.1
Mag 1.7
Resolute
P₁ 09 54 43
S₁ 09 54 49
D = 49.2 km

NOVEMBER 5
49°41'N, 124°30'W
Texada Island
H = 02 08 21
Mag 2
Alberni
eP₁ 02 08 29.4
eS₁ 02 08 35.7
D = 52 km
Victoria
eP 02 08 45.7
D = 154 km

NOVEMBER 5
Victoria
eP 02 09 05

NOVEMBER 5
H = 03 07 31
Mag 1.8
Penticton
eP₁ 03 07 53.1
eS₁ 03 08 09.6
D = 135 km

NOVEMBER 5
U. S. C. G. S.
39.2N, 20.5E
Near coast of Greece
H = 20 20 53.7
h = 49 km
Mag 5

Halifax
iP 20 31 02 d
Ottawa
eP 20 31 47
Resolute
eP 20 30 50
Seven Falls
eP 20 31 21
Shawinigan Falls
eP 20 31 32 c
Penticton
eP 20 33 28
Victoria
eP 20 33 37

DOMINION OBSERVATORIES

NOVEMBER 6

U. S. C. G. S.
 50. 0N, 159. 8E
 Near east coast
 of Kamchatka
 H = 04 38 16.7
 h = 32 km
 Mag 6
 Alberni
 eP 04 46 35.6
 Banff
 eP 04 47 05
 Halifax
 iP 04 50 02.5 c
 Ottawa
 iP 04 49 34 c
 Penticton
 eP 04 46 56 c
 Resolute
 iP 04 46 21 c
 PP 04 48 06 ?
 eS 04 52 44 ?
 Seven Falls
 eP 04 49 36 c
 Shawinigan Falls
 eP 04 49 35 c

NOVEMBER 6

U. S. C. G. S.
 31. 0S, 177. 7W
 Kermadec Islands
 region
 H = 06 15 05.7
 h = 184 km
 Mag 5 3/4
 Penticton
 eP 06 28 13
 eP' 06 33 33 d ?

NOVEMBER 6

U. S. C. G. S.
 18. 6N, 119. 9E
 Philippine Islands
 H = 06 40 12.3
 h = 98 km
 Resolute
 eP? 06 52 57 ?

NOVEMBER 6

Penticton
 eP 09 01 29

NOVEMBER 6

U. S. C. G. S.
 52. 7N, 168. 0W
 Fox Islands
 H = 22 10 06.4
 h = 42 km
 Mag 5
 Alberni
 eP 22 15 54.8
 Banff
 eP 22 16 30
 Halifax
 P 22 20 34
 Ottawa
 iP 22 19 50 c
 Penticton
 eP 22 16 17
 Resolute
 eP 22 17 03 c ?
 eS 22 22 39
 Seven Falls
 eP 22 19 59 c
 Shawinigan Falls
 eP 22 19 55 c
 Victoria
 eP 22 17 00

NOVEMBER 7

H = 00 57 08
 Mag 1.7
 Penticton
 eP₁ 00 57 30.6
 eS₁ 00 57 47.6
 D = 140 km

NOVEMBER 7

U. S. C. G. S.
 32. 2N, 131. 5E
 Kyushu Japan
 H = 13 23 05.1
 h = 25 km
 Banff
 eP 13 35 05
 Penticton
 eP 13 34 59
 Resolute
 eP 13 34 13
 Victoria
 eP 13 34 51 d

NOVEMBER 8

U. S. C. G. S.
 29. 8S, 176. 9W
 Kermadec Islands
 region
 H = 02 43 38.1
 h = 25 km
 Resolute
 eP? 02 55 51

NOVEMBER 8

U. S. C. G. S.
 27. 8N, 44. 3W
 North Atlantic Ocean
 H = 04 28 11.4
 h = 25 km
 Resolute
 eP? 04 37 35

SEISMOLOGICAL BULLETIN - 1960

NOVEMBER 8

U.S.C.G.S.
45.2N, 149.8E
Kurile Islands
H = 05 22 09.4
h = 25 km

Alberni
eP 05 31 44
Banff
eP 05 32 13
Penticton
eP 05 32 04
Resolute
eP 05 31 28 c
Victoria
eP 05 31 53

NOVEMBER 8

U.S.C.G.S.
45.2N, 149.7E
Kurile Islands
H = 05 27 21.7
h = 25 km

Banff
eP 05 37 25
Penticton
eP 05 37 16
Resolute
iP 05 36 41 c ?
Victoria
eP 05 37 06

NOVEMBER 8

H = 11 00 15
Mag 0.7
Banff
iP₁ 11 00 17.8
iS₁ 11 00 20.2
D = 18 km

NOVEMBER 8

Penticton
eP 11 05 54.3

NOVEMBER 8

U.S.C.G.S.
44.9°N, 125.2°W
Near coast of Oregon,
U.S.A.
H = 11 36 27.2
h = 44 km
Mag 4.9

Alberni
iP 11 37 29.5
iS 11 38 14.2
Banff
eP 11 38 38.4
Halifax
P 11 44 24.5
Ottawa
iP 11 43 15 d
Penticton
eP 11 37 51.5 c
eS 11 38 47
Resolute
eP 11 42 58
Seven Falls
iP 11 43 38 d
Shawinigan Falls
eP 11 43 28
Victoria
iP 11 37 22.7

NOVEMBER 8

U.S.C.G.S.
28.2N, 139.5E
Bonin Islands region
H = 12 33 58.0
h = 23 km
Penticton
eP 12 45 42
Resolute
eP? 12 45 13
Victoria
iP 12 45 33

NOVEMBER 8

U.S.C.G.S.
56.0N, 158.8W
Alaska Peninsula
H = 13 36 12.9
h = 29 km
Penticton
eP 13 41 31
Resolute
eP 13 42 24

NOVEMBER 8

Resolute
eP 16 52 26

NOVEMBER 8

Resolute
eP 23 09 48

NOVEMBER 8

Alberni
iP 23 18 45.7
Penticton
iP 23 19 08.7
Victoria
iP 23 18 38.9

NOVEMBER 9

H = 00 41 44
Mag 1.9
Penticton
iP₁ 00 42 07.5
iS₁ 00 42 25.0
D = 144 km

NOVEMBER 9

Resolute
eP? 01 17 39

DOMINION OBSERVATORIES

NOVEMBER 9

U. S. C. G. S.
21. 5S, 67. 5W
Near Chile -
Bolivia border
H = 01 17 36. 8
h = 131 km
Banff
eP 01 29 54
Halifax
P 01 28 16
Ottawa
eP 01 28 21
Penticton
eP 01 29 59
Seven Falls
iP 01 28 32 c
Shawinigan Falls
eP 01 28 28
Victoria
iP 01 30 05 d

NOVEMBER 9

U. S. C. G. S.
60. 7S, 24. 8W
Sandwich Islands
H = 03 17 58. 5
h = 37 km
Mag 6 1/4
Banff
eP' 03 37 09
Penticton
eP' 03 37 51
Resolute
eP' 03 37 25
PP 03 40 48
eS 03 47 30
Victoria
eP' 03 37 02

NOVEMBER 9

Resolute
eP? 04 31 36

NOVEMBER 9

U. S. C. G. S.
32. 7N, 103. 4E
China
H = 10 43 43. 1
h = 47 km
Mag 6 1/4
Alberni
eP 10 56 32
Banff
eP 10 56 40
Penticton
eP 10 56 40
Resolute
eP 10 55 05
eS 11 04 28
Victoria
eP 10 56 37

NOVEMBER 9

Resolute
eP 12 40 32

NOVEMBER 9

U. S. C. G. S.
23. 2S, 70. 6W
Near coast of Chile
H = 20 06 16. 2
h = 52 km
Mag 5 1/2
Banff
eP 20 18 34
Halifax
iP 20 17 15 c
Ottawa
eP 20 17 18 c
Penticton
eP 20 18 49
Resolute
eP 20 20 ??
eS? 20 31 23?
SS 20 38 12?
Seven Falls
eP 20 17 28
Shawinigan Falls
eP 20 17 25

NOVEMBER 10

U. S. C. G. S.
26. 2N, 87. 5W
Gulf of Mexico
H = 01 33 43. 8
h = 21 km
Ottawa
eP 01 38 35 d
Resolute
iP 01 42 29

NOVEMBER 10

U. S. C. G. S.
36. 6N, 71. 1E
Hindu Kush region
H = 01 54 46. 8
h = 64 km
Penticton
eP 02 08 01

NOVEMBER 10

U. S. C. G. S.
30. 2N, 40. 4W
North Atlantic Ocean
H = 05 31 30. 1
h = 28 km
Mag 5
Halifax
eP 05 36 36
Resolute
eP 05 40 36
Seven Falls
eP 05 37 28

NOVEMBER 10

U. S. C. G. S.
2. 6S, 139. 4E
Near coast of New
Guinea
H = 14 44 47. 3
h = 25 km
Mag 6 3/4
Penticton
eP 14 58 29
e 15 14 56
Resolute
eP 14 58 39
e 15 14 46
Seven Falls
eP' 15 03 55 d
Shawinigan Falls
iP' 15 03 54 d

SEISMOLOGICAL BULLETIN - 1960

NOVEMBER 10

H = 19 38 55
Mag 0.9
Penticton
iP₁ 19 39 00.7
iS₁ 19 39 04.6
D = 32 km

NOVEMBER 10

Victoria
iP 20 43 29 c

NOVEMBER 10

Canadian Arctic
H = 22 32 24
Mag 3.3
Resolute
P_n 22 33 38
i 22 33 52
i 22 34 33
S₁ 22 34 57
D = 550 km

NOVEMBER 11

U. S. C. G. S.
39.5N, 21.1E
Greece - Albania
region
H = 05 31 34.1
h = 39 km
Halifax
iP 05 41 42 c
Ottawa
eP 05 42 27
Penticton
eP 05 44 10
Resolute
eP 05 41 29
Seven Falls
eP 05 41 59 c
Shawinigan Falls
eP 05 42 15

NOVEMBER 11

Resolute
eP 10 52 01

NOVEMBER 11

U. S. C. G. S.
54.8N, 161.7E
Kamchatka
H = 13 45 14.3
h = 28 km
Resolute
eP 13 53 02

NOVEMBER 11

Victoria
eP 19 30 11

NOVEMBER 12

U. S. C. G. S.
47.1N, 148.8E
Kurile Islands
H = 18 37 14.5
h = 174 km
Resolute
iP 18 46 07

NOVEMBER 13

U. S. C. G. S.
1.4N, 127.2E
Molucca Passage
H = 06 37 05.7
h = 59 km
Halifax
P' 06 56 21
Ottawa
eP' 06 56 11
Penticton
eP 06 51 04
Resolute
eP 06 50 47
Seven Falls
eP' 06 56 10 c
Shawinigan Falls
eP' 06 56 11

NOVEMBER 13

U. S. C. G. S.
51.1N, 168.8W
Fox Islands
H = 09 20 36.8
h = 65 km
Mag 7
Alberni
eP 09 26 27
Banff
eP 09 27 07
Halifax
eP 09 31 11 d
Ottawa
iP 09 30 26 d
Penticton
eP 09 26 53 d
e 09 29 53 d
Resolute
eP 09 27 44 d
eS 09 33 28
Seven Falls
eP 09 30 36 d
Shawinigan Falls
iP 09 30 31 d
Victoria
eP 09 26 35 d,W
e 09 29 42
iS 09 31 29 W

NOVEMBER 13

Resolute
eP 10 03 12

NOVEMBER 13

Resolute
eP 10 40 11

NOVEMBER 13

Resolute
eP 12 32 47

DOMINION OBSERVATORIES

NOVEMBER 13 U. S. C. G. S. 51. 1N, 168. 6W Fox Islands H = 13 24 25. 6 h = 25 km Resolute eP 13 31 39	NOVEMBER 13 U. S. C. G. S. 51. 8N, 167. 2W Fox Islands H = 17 19 24. 6 h = 78 km Resolute eP 17 26 23	NOVEMBER 14 H = 08 03 07 Mag 2. 5 Penticton iP ₁ 08 03 37. 1 iS ₁ 08 04 00. 6 D = 192 km
NOVEMBER 13 U. S. C. G. S. 51. 6N, 168. 1W Fox Islands H = 13 28 11. 5 h = 50 km Resolute eP 13 35 18	NOVEMBER 13 U. S. C. G. S. 39. 5N, 30. 4W Azores H = 20 45 09. 1 h = 25 km Halifax P 20 50 39 Resolute eP 20 53 32	NOVEMBER 14 H = 10 25 04 Mag 1. 9 Penticton iP ₁ 10 25 27. 8 iS ₁ 10 25 51. 8 D = 150 km
NOVEMBER 13 U. S. C. G. S. 51. 3N, 168. 6W Fox Islands H = 13 52 28. 9 h = 46 km Resolute eP 13 59 39	NOVEMBER 14 U. S. C. G. S. 53. 5S, 140. 7E Antarctic Ocean H = 02 08 05. 5 h = 21 km Resolute eP' 02 27 53	NOVEMBER 14 U. S. C. G. S. 24. 3N, 96. 2E Burma H = 15 55 57. 2 h = 58 km Resolute eP 16 08 09
NOVEMBER 13 U. S. C. G. S. 51. 9N, 167. 8W Fox Islands H = 14 29 21. 1 h = 46 km Resolute eP 14 36 25	NOVEMBER 14 Penticton eP 03 53 52 Resolute eP 03 54 17	NOVEMBER 14 U. S. C. G. S. 14. 5N, 92. 8W Near coast of Chiapas Mexico H = 19 59 31. 8 h = 100 km Mag 5 Banff eP 20 07 09 Ottawa iP 20 06 09 d Penticton eP 20 07 10 Resolute iP 20 09 33
NOVEMBER 13 U. S. C. G. S. 51. 7N, 167. 9W Fox Islands H = 15 28 02. 7 h = 75 km Resolute eP 15 35 04	NOVEMBER 14 U. S. C. G. S. 53. 5S, 140. 3E Antarctic Ocean H = 04 17 12. 7 h = 100 km Penticton e 04 57 36 Resolute eP' 04 36 55 e 04 57 49	

SEISMOLOGICAL BULLETIN - 1960

Seven Falls
eP 20 06 37
Shawinigan Falls
eP 20 06 27

NOVEMBER 15
Resolute
eP? 04 57 19

NOVEMBER 15
U.S.C.G.S.
62.5S, 161.7W
Antarctic Ocean
southeast of
New Zealand
H = 06 23 27.5
h = 46 km
Mag 5 1/2
Resolute
eP' 06 42 55

NOVEMBER 15
U.S.C.G.S.
23.2N, 94.3E
Burma - India
border
H = 09 05 59.1
h = 103 km
Resolute
eP 09 18 13

NOVEMBER 15
H = 20 28 25
Mag 2.0
Penticton
eP₁ 20 28 59.4
eS₁ 20 29 27.4
D = 229 km

NOVEMBER 15
H = 22 32 41
Mag 1.8
Penticton
eP₁ 22 33 02.6
eS₁ 22 33 23.8
D = 132 km

NOVEMBER 15
H = 23 25 07
Mag 1.7
Penticton
eP₁ 23 25 30.9
eS₁ 23 25 49.4
D = 152 km

NOVEMBER 15
Resolute
eP? 23 39 27

NOVEMBER 16
Canadian Arctic
H = 08 48 58.1
Mag 1.7
Resolute
P₁ 08 49 06
S₁ 08 49 12
D = 49.2 km

NOVEMBER 16
U.S.C.G.S.
10.4N, 74.2W
Near coast of
Columbia
H = 15 38 26.5
h = 83 km
Penticton
eP 15 47 47
Resolute
eP 15 49 02

NOVEMBER 16
Penticton
eP 20 57 32

NOVEMBER 16
U.S.C.G.S.
38.0N, 89.5E
Sinkiang Province
China
H = 22 59 47.6
h = 24 km
Penticton
eP 23 12 46 c
Resolute
eP 23 10 44
Shawinigan Falls
eP 23 13' 09
Victoria
eP 23 12 45

NOVEMBER 16
H = 23 55 53
Mag 1.7
Penticton
eP₁ 23 56 21.1
eS₁ 23 56 42.4
D = 174 km

NOVEMBER 17
49.0°N, 121.5°W
South of Hope,
British Columbia
H = 00 48 46
Mag 1.9
Penticton
iP₁ 00 49 09.2
iS₁ 00 49 26.9
D = 145 km
Victoria
eP₁ 00 49 11.1
D = 156 km

NOVEMBER 17
U.S.C.G.S.
38.5S, 73.6W
Near coast of Chile
H = 01 28 39.6
h = 25 km
Shawinigan Falls
eP 01 41 13

DOMINION OBSERVATORIES

NOVEMBER 17

Penticton
iP 09 00 20 c

NOVEMBER 17

H = 12 41 20
Mag 1.4
Penticton
eP₁ 12 41 38.9
eS₁ 12 41 53.5
D = 118 km

NOVEMBER 17

U. S. C. G. S.
52.3N, 170.3W
Fox Islands
H = 19 46 46.2
h = 16 km
Halifax
eP 19 57 26 d
Ottawa
eP 19 56 42
Penticton
eP 19 53 12
Resolute
eP 19 53 54
Shawinigan Falls
eP 19 56 47

NOVEMBER 17

Resolute
eP 19 59 45

NOVEMBER 18

U. S. C. G. S.
35.0N, 28.6E
East of Crete
H = 06 03 37.5
h = 43 km
Resolute
eP 06 14 11
Shawinigan Falls
eP 06 15 02

NOVEMBER 18

Resolute
eP 07 02 59

NOVEMBER 18

Resolute
eP 09 43 16

NOVEMBER 18

U. S. C. G. S.
22.5S, 69.4W
Northern Chile
H = 12 42 46.9
h = 163 km
Penticton
eP 12 55 04

NOVEMBER 18

Penticton
iP 16 22 36 c

NOVEMBER 18

Ottawa
eP 18 57 30
Seven Falls
eP 18 57 58
Shawinigan Falls
eP 18 57 48

NOVEMBER 19

Penticton
eP 00 13 39.9

NOVEMBER 19

H = 00 45 30
Mag 1.9
Penticton
iP₁ 00 45 51.4
iS₁ 00 46 08.6
D = 140 km

NOVEMBER 19

H = 06 38 30
Mag 2.1
Alberni
iP₁ 06 38 42.1
iS₁ 06 38 51.4
D = 76 km

NOVEMBER 19

Resolute
eP 08 15 21

NOVEMBER 19

U. S. C. G. S.
8.6N, 137.6E
Caroline Islands region
H = 12 16 44.5
h = 27 km
Resolute
eP 12 29 49

NOVEMBER 19

H = 15 00 56
Mag 1.3
Penticton
eP₁ 15 01 16.9
eS₁ 15 01 32.9
D = 131 km

NOVEMBER 19

Resolute
eP 19 26 03?

NOVEMBER 19

Resolute
eP 19 29 53 ?

NOVEMBER 19

H = 19 52 02
Mag 2.5
Penticton
eP₁ 19 52 42.5
eS₁ 19 53 16.3
D = 276 km

SEISMOLOGICAL BULLETIN - 1960

NOVEMBER 20

H = 00 23 16

Mag 2.0

Penticton

iP 00 23 43.1

iS₁ 00 24 03.6

D = 168 km

NOVEMBER 20

U. S. C. G. S.

26. 8N, 128. 2E

Ryuku Islands

H = 03 52 49.0

h = 25 km

Resolute

eP 04 04 32

NOVEMBER 20

Penticton

eP 04 41 34

NOVEMBER 20

Penticton

eP 04 45 09

Resolute

eP 04 45 57 ?

NOVEMBER 20

U. S. C. G. S.

8. 3S, 77. 6W

Northern Peru

H = 10 49 13.4

h = 55 km

Penticton

eP 11 00 11

NOVEMBER 20

Resolute

eP 20 42 02

NOVEMBER 20

U. S. C. G. S.

6. 8S, 80. 7W

Near coast of

Peru

H = 22 01 59.9

h = 93 km

Mag 6 1/2

Banff

eP 22 12 38

Halifax

eP 22 11 15

e 22 11 26

i 22 11 38

iS 22 18 50

Ottawa

eP 22 11 03

Penticton

eP 22 12 34

Resolute

eP 22 14 14

eS 22 24 23

Seven Falls

eP 22 11 23

Shawinigan Falls

eP 22 11 19

Victoria

eP 22 12 46

NOVEMBER 21

H = 00 55 05

Mag 1. 8

Penticton

eP₁ 00 55 27.7

eS₁ 00 55 45.1

D = 142 km

NOVEMBER 21

U. S. C. G. S.

3. 4S, 152. 3E

New Ireland Region

H = 04 29 04.7

h = 371 km

Banff

iP 04 41 46

Resolute

eP 04 42 09

e 04 46 36

NOVEMBER 21

Penticton

eP 12 51 43.0

NOVEMBER 21

U. S. C. G. S.

54. 8N, 159. 7E

Kamchatka

H = 18 44 04.9

h = 64 km

Penticton

eP 18 52 33

Resolute

eP 18 51 52

NOVEMBER 22

U. S. C. G. S.

7. 0S, 80. 8W

Near coast of Peru

H = 02 32 15.2

h = 19 km

Penticton

eP 02 43 03

Resolute

eP 02 44 36

NOVEMBER 22

U. S. C. G. S.

8. 2N, 38. 4W

Atlantic Ocean

H = 03 03 02.7

Penticton

eP 03 15 04

Resolute

eP 03 14 37

Shawinigan Falls

eP 03 11 45

DOMINION OBSERVATORIES

NOVEMBER 22

U. S. C. G. S.
19. 2S, 173. 1W
Tonga Islands region
H = 03 31 54. 3
h = 25 km
Penticton
eP 03 44 23

NOVEMBER 22

U. S. C. G. S.
35. 9S, 52. 3E
Indian Ocean
H = 06 21 45. 0
h = 21 km
Mag 6 3/4
Banff
eP₁' 06 41 50
Ottawa
eP' 06 41 10 c
Penticton
eP₁' 06 41 51
Resolute
eP' 06 41 14
i 07 02 28
Shawinigan Falls
eP' 06 41 15

NOVEMBER 22

U. S. C. G. S.
53. 0N, 159. 4E
Kamchatka
H = 07 09 14. 8
h = 28 km
Ottawa
eP 07 20 33
Penticton
eP 07 17 57
Resolute
eP 07 17 20
Shawinigan Falls
eP 07 20 34

NOVEMBER 22

U. S. C. G. C.
40. 0S, 74. 3W
Near coast of
southern Chile
H = 12 28 58. 4
h = 107 km
Mag 6 1/2

Banff
eP 12 42 27
Halifax
eP 12 41 26
iS 12 52 00
Ottawa
eP 12 41 27 d
Penticton
eP 12 42 28
Resolute
eP 12 47 34
PP 12 51 06?
eS 12 58 12?
sSS? 13 04 48?
Seven Falls
eP 12 41 37
Shawinigan Falls
eP 12 41 34

NOVEMBER 22

Resolute
eP? 14 05 29

NOVEMBER 22

U. S. C. G. S.
7. 3N, 95. 7E
Nicobar Islands
region
H = 17 51 36. 5
h = 25 km
Resolute
eP? 18 05 22?

NOVEMBER 22

H = 23 54 21
Mag 2. 1
Penticton
eP₁ 23 54 49. 5
eS₁ 23 55 11. 4
D = 178 km

NOVEMBER 23

H = 00 51 32
Mag 1. 8
Penticton
eP₁ 00 51 57. 0
eS₁ 00 52 15. 9
D = 155 km

NOVEMBER 23

U. S. C. G. S.
4. 9S, 153. 8E
New Britain region
H = 04 11 34. 7
h = 516 km
Banff
eP 04 24 01
Penticton
eP 04 23 48
Resolute
eP? 04 24 28

NOVEMBER 23

Penticton
eP 09 33 24

NOVEMBER 23

U. S. C. G. S.
24. 2S, 176. 1W
South of Tonga Islands
H = 14 12 21. 1
h = 28 km
Mag 6 3/4
Alberni
eP 14 25 14
Banff
eP 14 25 31
Halifax
eP' 14 31 19 c
Penticton
eP 14 25 16
e 14 36 15
Resolute
eP' 14 30 59
i 14 41 10
e 14 42 10
i 14 47 23

SEISMOLOGICAL BULLETIN - 1960

Seven Falls
eP' 14 31 14
Shawinigan Falls
eP' 14 31 09
Victoria
eP 14 25 03

NOVEMBER 23
U. S. C. G. S.
4. 6N, 125. 8E
Philippine Islands
H = 16 52 12. 9
h = 143 km
Resolute
eP 17 05 35
Shawinigan Falls
eP' 17 11 05
i 17 11 48

NOVEMBER 23
H = 17 09 09
Mag 2. 0
Penticton
eP₁ 17 09 36. 0
eS₁ 17 09 56. 6
D = 168 km

NOVEMBER 23
U. S. C. G. S.
24. 5S, 176. 4W
South of Tonga Islands
H = 17 29 08. 5
h = 171 km
Penticton
eP 17 41 49

NOVEMBER 23
U. S. C. G. S.
24. 0S, 176. 3W
South of Tonga Islands
H = 17 56 38. 0
h = 51 km
Banff
eP 18 09 47
Penticton
eP 18 09 32 d

NOVEMBER 23
Penticton
eP 18 46 36

NOVEMBER 23
Resolute
eP? 20 18 00

NOVEMBER 23
U. S. C. G. S.
24. 1S, 175. 7W
South of Tonga Islands
H = 20 11 03. 2
h = 25 km
Penticton
eP 20 24 00

NOVEMBER 23
U. S. C. G. S.
22. 1S, 179. 5W
South of Fiji Islands
H = 21 14 29. 2
h = 631 km
Penticton
eP 21 26 21 c
Shawinigan Falls
eP' 21 31 21

NOVEMBER 24
U. S. C. G. S.
4. 6S, 153. 0E
New Britain region
H = 04 50 15. 8
h = 87 km
Mag 6 1/4
Banff
eP 05 03 28
Ottawa
eP' 05 09 03
Penticton
eP 05 03 14
e 05 20 38
Resolute
eP 05 03 55
Shawinigan Falls
eP' 05 09 05

NOVEMBER 24
U. S. C. G. S.
24. 2S, 176. 1W
South of Tonga Islands
H = 06 52 41. 1
h = 23 km
Mag 7
Alberni
eP 07 05 30
Banff
eP 07 05 54
Halifax
eP' 07 11' 38
Ottawa
eP' 07 11 22
Penticton
iP 07 05 38 c
Resolute
eP 07 07 22
e 07 11 16
e 07 22 18 ?

Seven Falls
eP' 07 11 31
Shawinigan Falls
eP' 07 11 29
Victoria
eP 07 05 29

NOVEMBER 24
Penticton
iP 07 35 27

NOVEMBER 24
Penticton
eP 07 43 22

NOVEMBER 24
Penticton
eP 07 45 44

NOVEMBER 24
Penticton
eP 08 03 42

DOMINION OBSERVATORIES

NOVEMBER 24
U. S. C. G. S.
24. 4S, 176. 3W
South of Tonga
Islands
H = 08 16 43.7
h = 25 km
Penticton
eP 08 29 42

NOVEMBER 24
U. S. C. G. S.
24. 5S, 175. 9W
South of Tonga Islands
H = 08 26 14. 4
h = 25 km
Penticton
eP 08 39 10

NOVEMBER 24
Penticton
eP 08 50 22

NOVEMBER 24
Penticton
eP 09 29 23

NOVEMBER 24
U. S. C. G. S.
24. 1S, 176. 6W
South of Tonga Islands
H = 09 28 21. 7
h = 93 km
Penticton
eP 09 41 08

NOVEMBER 24
Resolute
eP 14 19 42

NOVEMBER 24
U. S. C. G. S.
57. 8N, 155. 9W
Alaska Peninsula
H = 18 25 46. 4
h = 46 km
Resolute
eP 18 31 34

NOVEMBER 24
Penticton
eP 19 30 49

NOVEMBER 25
H = 00 54 09
Mag 1. 9
Penticton
eP₁ 00 54 32. 8
eS₁ 00 54 51. 2
D = 151 km

NOVEMBER 25
Resolute
eP? 02 47 49 ?

NOVEMBER 25
U. S. C. G. S.
38. 0N, 140. 5E
Honshu Japan
H = 21 54 13. 8
h = 157 km
Penticton
eP 22 04 59
Resolute

iP 22 04 19 c
eS 22 12 33
Shawinigan Falls
eP 22 07 04
Victoria
eP 22 04 49 d,S,W

NOVEMBER 26
Penticton
eP 06 44 26

NOVEMBER 26
U. S. C. G. S.
36. 6N, 141. 0E
Near coast of
Honshu Japan
H = 07 37 02. 2
h = 100 km
Penticton
eP 07 48 00
Resolute
eP 07 47 23

NOVEMBER 26
Resolute
eP 15 52 05?

NOVEMBER 26
U. S. C. G. S.
51. 8N, 168. 1W
Fox Islands
H = 16 45 45. 1
h = 85 km
Resolute
eP 16 52 46

NOVEMBER 26
U. S. C. G. S.
53. 9S, 141. 5E
Antarctic Ocean
H = 18 20 22. 9
h = 25 km
Resolute
eP₁' 18 40 12

NOVEMBER 26
U. S. C. G. S.
24. 3S, 175. 5W
South of Tonga Islands
H = 21 35 36. 6
h = 20 km
Penticton
eP 21 48 33

SEISMOLOGICAL BULLETIN - 1960

NOVEMBER 27	Victoria	NOVEMBER 28
Resolute	iP 15 27 24 c,N,E	H = 11 24 51
eP 00 45 55		Mag 1.5
		Penticton
	NOVEMBER 27	eP ₁ 11 25 08.0
NOVEMBER 27	H = 21 54 09	eS ₁ 11 25 20.7
Alberni	Mag 1.8	D = 104 km
eP 09 49 16	Penticton	
Penticton	eP ₁ 21 54 34.1	
eP 09 50 02	eS ₁ 21 54 53.0	NOVEMBER 28
Victoria	D = 155 km	Penticton
eP 09 49 25 d		eP 15 49 41
	NOVEMBER 27	
NOVEMBER 27	Penticton	NOVEMBER 28
U. S. C. G. S.	eP 22 19 21	47.4N, 27.6W
62.9N, 150.9W		Azores
Alaska		H = 19 47 16.9
H = 12 00 26.3	NOVEMBER 28	h = 17 km
h = 171 km	U. S. C. G. S.	Halifax
Banff	36.2N, 31.1E	P 19 52 42
eP 12 05 13	Near coast of Turkey	Resolute
Penticton	H = 05 12 50.1	eP 19 54 45
eP 12 05 10 d	h = 71 km	
Resolute	Resolute	
eP 12 05 12	eP 05 23 18	NOVEMBER 28
eS 12 09 08		Penticton
Shawinigan Falls		eP 21 16 38
eP 12 08 28	NOVEMBER 28	
Victoria	Halifax	
eP 12 05 01	P 05 34 42	NOVEMBER 28
	Penticton	Resolute
	eP 05 40 01	eP? 23 15 16?
	Resolute	
NOVEMBER 27	eP 05 37 24	
U. S. C. G. S.	Seven Falls	NOVEMBER 29
42.8N, 143.3E	eP 05 36 32	U. S. C. G. S.
Near coast of	Shawinigan Falls	44.0S, 74.9W
Hokkaido Japan	eP 05 39 43	Near coast of
H = 15 17 15.2		southern Chile
h = 122 km		H = 09 32 01.5
Alberni		h = 86 km
eP 15 27 17	NOVEMBER 28	Mag 5 1/4
Banff	Penticton	Halifax
iP 15 27 41 c	eP 09 15 02	P 09 44 52
Penticton		
iP 15 27 34 c		
Resolute		
iP 15 26 50 c		
Shawinigan Falls		
iP 15 29 44 c		

DOMINION OBSERVATORIES

NOVEMBER 29	DECEMBER 1	DECEMBER 1
U. S. C. G. S.	U. S. C. G. S.	48.5°N, 129.1°W
26.5N, 126.1E	5.7S, 145.9E	Off coast of
Ryukyu Islands	Near coast of	Vancouver Island
H = 14 07 02.2	New Guinea	H = 20 49 45
h = 147 km	H = 10 11 44.6	h = 15 km
Alberni	h = 45 km	Mag 6
eP 14 19 09	Penticton	Alberni
Banff	eP 10 25 14	eP _n 20 50 31.7
eP 14 19 25	e 10 53 22	D = 330 km
Penticton	Resolute	Banff
iP 14 19 22 d	eP 10 25 40	eP _n 20 51 59
Resolute		Ottawa
iP 14 18 34 d		iP 20 56 48
Victoria	DECEMBER 1	Penticton
eP 14 19 14d,S,E	Resolute	eP _n 20 51 19.7
	eP 11 57 04	D = 710 km
		Resolute
NOVEMBER 29	DECEMBER 1	eP 20 55 52
U. S. C. G. S.	Resolute	eS 21 00 48
15.8S, 73.3W	eP? 16 34 36	Seven Falls
Near coast of Peru		eP 20 57 09
H = 19 17 07.3		Shawinigan Falls
h = 100 km		eP 20 57 05
Penticton	DECEMBER 1	Victoria
eP 19 28 53	49.4°N, 129.3°W	eP _n 20 50 44.1
	Off west coast of	D = 425 km
	Vancouver Island	
	H = 20 45 03	
	Mag 3.6	DECEMBER 1
	Alberni	Resolute
	eP _n 20 45 50.1	eP 20 51 09?
	D = 330 km	
	Banff	
	eP _n 20 47 19	
	Penticton	DECEMBER 1
	eP _n 20 46 36.8	48°11'N, 124°53'W
	D = 710 km	Off coast of
	Victoria	Washington, U. S. A.
	eP _n 20 46 04.3	H = 21 05 21
	D = 425 km	Mag 2.3
		Alberni
		eP ₁ 21 05 40.6
		eS ₁ 21 05 54.9
		D = 120 km
		Victoria
		eP ₁ 21 05 40.1
		eS ₁ 21 05 54.7
		D = 117 km
NOVEMBER 29		
U. S. C. G. S.		
26.5N, 126.1E		
Ryukyu Islands		
H = 14 07 02.2		
h = 147 km		
Alberni		
eP 14 19 09		
Banff		
eP 14 19 25		
Penticton		
iP 14 19 22 d		
Resolute		
iP 14 18 34 d		
Victoria		
eP 14 19 14d,S,E		
NOVEMBER 29		
U. S. C. G. S.		
15.8S, 73.3W		
Near coast of Peru		
H = 19 17 07.3		
h = 100 km		
Penticton		
eP 19 28 53		
NOVEMBER 29		
Penticton		
eP 20 20 04		
NOVEMBER 30		
Resolute		
eP 14 00 19		
DECEMBER 1		
U. S. C. G. S.		
32.3S, 113.1W		
Easter Island region		
H = 08 42 26.5		
h = 25 km		
Penticton		
eP 08 54 47		

SEISMOLOGICAL BULLETIN - 1960

DECEMBER 1

48.5°N, 129.2°W

Off coast of

Vancouver Island

H = 21 18 49

Mag 3.3

Alberni

eP_n 21 19 35.7

D = 327 km

Penticton

eP_n 21 20 23.2

D = 716 km

Victoria

eP_n 21 19 47.6

D = 424 km

DECEMBER 1

48.7°N, 129.2°W

Off coast of

Vancouver Island

H = 21 49 37.2

h = 60 km

Mag 3.8

Alberni

eP_n 21 50 21.1

D = 326 km

Banff

eP_n 21 51 48

Ottawa

eP 21 56 36

Penticton

eP_n 21 51 18.3

D = 712 km

Resolute

eP 21 55 39

eS 22 00 36

Seven Falls

eP 21 56 57

Shawinigan Falls

eP 21 56 53

Victoria

eP_n 21 50 33.5

D = 427 km

DECEMBER 1

48.9°N, 129.2°W

Off coast of

Vancouver Island

H = 21 57 43

Mag 3.4

Alberni

eP_n 21 58 29.2

D = 324 km

Victoria

eP_n 21 58 42.4

D = 432 km

DECEMBER 1

48.5°N, 129.2°W

Off coast of

Vancouver Island

H = 22 05 30

Mag 3.7

Alberni

eP_n 22 06 16.5

D = 329 km

Banff

eP_n 22 07 41

Ottawa

eP 22 12 30

Resolute

eP 22 11 35

Seven Falls

eP 22 12 52

Victoria

eP_n 22 06 28.5

D = 427 km

DECEMBER 1

49N, 129W

Off coast of

Vancouver Island

H = 22 33 53

Mag 3.2

Alberni

eP_n 22 34 38.4

D = 330 km

Victoria

eP_n 22 34 51.0

D = 444 km

DECEMBER 1

48.6°N, 129.2°W

Off coast of

Vancouver Island

H = 22 54 55

Mag 3.5

Alberni

eP_n 22 55 42.2

D = 329 km

Victoria

eP_n 22 55 54.3

D = 429 km

DECEMBER 2

U. S. C. G. S.

6.6S, 152.5E

New Britain region

H = 04 37 28.2

h = 33 km

Resolute

eP 04 51 24

DECEMBER 2

U. S. C. G. S.

24.5S, 69.9W

Near coast of Chile

H = 09 10 41.0

h = 37 km

Mag 7

Alberni

eP 09 23 40

Banff

eP 09 23 18

Halifax

iP 09 21 49 c

Ottawa

eP 09 21 51

Penticton

eP 09 23 19

Resolute

eP 09 24 28

i 09 36 02

i 09 42 58

Seven Falls

eP 09 22 02

Shawinigan Falls

eP 09 21 58

DOMINION OBSERVATORIES

Victoria		DECEMBER 2		Seven Falls	
eP	09 23 26	U.S.C.G.S.		iP	04 37 18 d
eS	09 33 31.2	25.7N, 129.2E		Shawinigan Falls	
		Ryukyu Islands		eP	04 37 20
		H = 17 43 18.2		Victoria	
		h = 81 km		eP	04 36 24 c,S,E
DECEMBER 2		Resolute			
U.S.C.G.S.		eP	17 54 57		
24.3S, 69.8W					
Near coast of Chile		DECEMBER 2		DECEMBER 3	
H = 09 37 38.6		U.S.C.G.S.		U.S.C.G.S.	
h = 64 km		41.6S, 88.3E		15.8N, 101.0W	
Mag 6 3/4		South Indian Ocean		Off coast of	
Albarni		H = 19 41 06.3		Guerrero Mexico	
eP	09 50 28	h = 35 km		H = 04 55 17.0	
Banff		Resolute		h = 60 km	
eP	09 50 01	eP ₁ '	20 00 46	Resolute	
Halifax				eP	05 05 15
iP	09 48 44 c				
Ottawa		DECEMBER 2		DECEMBER 3	
iP	09 48 46 c	Canadian Arctic		U.S.C.G.S.	
Penticton		H = 22 54 14.6		52.5N, 177.3W	
eP	09 50 15 c	Mag 2.4		Andreanof Islands	
Resolute		Resolute		H = 07 07 42.7	
eP	09 51 22	P ₁	22 54 42.5	h = 79 km	
Seven Falls		S ₁	22 55 03.7	Albarni	
iP	09 48 57 c	D = 174 km		eP	07 14 13
Shawinigan Falls				Banff	
iP	09 48 53 c			eP	07 14 48
Victoria		DECEMBER 3		Halifax	
eP	09 50 14	U.S.C.G.S.		e	07 19 14
		42.8N, 104.5E		Ottawa	
		Outer Mongolia		eP	07 17 52
		H = 04 24 17.5		i	07 18 39
		h = 45 km		Penticton	
		Mag 7		eP	07 14 37 c
DECEMBER 2		Albarni		Resolute	
Resolute		eP	04 36 19	eP	07 15 00
eP?	15 35 43	Banff		Shawinigan Falls	
		iP	04 36 25 c	eP	07 17 56
DECEMBER 2		Halifax		i	07 18 42
Resolute		eP	04 37 27 d	Victoria	
eP?	16 25 09	Ottawa		eP	07 14 22 c
		eP	04 37 26		
		Resolute		DECEMBER 3	
		iP	04 34 35	Ottawa	
		PP?	04 36 52	eP	07 47 04
		iS	04 43 00		
		SS?	04 47 10		

SEISMOLOGICAL BULLETIN - 1960

DECEMBER 3

Resolute
eP 08 03 11?

DECEMBER 3

Resolute
eP 21 22 36

DECEMBER 4

Resolute
eP 16 10 30

DECEMBER 3

U. S. C. G. S.
21. 1N, 121. 1E
Off coast of Formosa
H = 09 12 19. 0
h = 35 km
Resolute
iP 09 24 35

DECEMBER 3

Resolute
eP 21 42 47
DECEMBER 3
45. 8N, 125. 0W
Off coast of
Oregon U. S. A.
H = 22 26 08
Mag 3. 8

DECEMBER 4

U. S. C. G. S.
32. 5N, 141. 6E
Off coast of
Honshu Japan
H = 16 20 36. 1
h = 106 km
Resolute
eP 16 31 20

DECEMBER 3

H = 15 51 31
Mag 2. 5
Alberni
eP₁ 15 51 44. 6
eS₁ 15 51 55. 3
D = 88 km

Alberni
eP_n 22 27 01. 9
eS_n 22 27 46. 8
D = 381 km
Penticton
eP_n 22 27 23. 1
D = 556 km
Victoria
eP_n 22 26 54. 6
eS_n 22 27 35. 9
D = 326 km

DECEMBER 4

U. S. C. G. S.
12. 8N, 88. 6W
Near coast of
El Salvador
H = 18 30 20. 4
h = 56 km
Resolute
eP 18 40 36

DECEMBER 3

U. S. C. G. S.
43. 1N, 104. 3E
Outer Mongolia
H = 17 56 28. 0
h = 25 km
Resolute
iP 18 06 47

DECEMBER 4

Resolute
eP? 02 25 57?

DECEMBER 4

Ottawa
eP 21 51 08
Resolute
eP 21 54 18?
Shawinigan Falls
eP 21 50 58

DECEMBER 3

U. S. C. G. S.
76. 7N, 131. 1E
Laptev Sea
H = 20 21 01. 3
h = 28 km
Ottawa
eP 20 30 47 d
Resolute
iP 20 26 40
Shawinigan Falls
eP 20 30 41

DECEMBER 4

Resolute
eP? 04 26 44?

DECEMBER 4

U. S. C. G. S.
43. 1N, 104. 0E
Outer Mongolia
H = 22 14 33. 6
h = 39 km
Resolute
eP 22 24 51

DECEMBER 4

Resolute
iP 14 27 22 c?

DOMINION OBSERVATORIES

DECEMBER 4
Resolute
eP 22 40 01

DECEMBER 4
U. S. C. G. S.
21. 2S, 179. 0W
Fiji Islands region
H = 23 55 39. 3
h = 633 km

Ottawa
eP' 24 13 12
Resolute
eP' 24 13 01
Shawinigan Falls
eP' 24 13 16
Victoria
eP 24 07 17

DECEMBER 5
U. S. C. G. S.
43. 0N, 104. 3E
Outer Mongolia
H = 08 38 49. 5
h = 59 km
Resolute
eP 08 49 04

DECEMBER 5
H = 13 33 50
Mag 2. 0
Alberni
iP₁ 13 33 58. 0
iS₁ 13 34 02. 6
D = 47 km

DECEMBER 5
H = 15 38 46
Mag 1. 5
Victoria
iP₁ 15 38 52. 6
iS₁ 15 38 57. 9
D = 43 km

DECEMBER 5
U. S. C. G. S.
54. 8N, 161. 2E
Near east coast of
Kamchatka
H = 17 49 42. 6
h = 25 km
Resolute
eP 17 57 30 c

DECEMBER 5
U. S. C. G. S.
54. 3N, 161. 2E
Near east coast of
Kamchatka
H = 18 07 26. 7
h = 25 km
Banff
eP 18 16 04
Penticton
eP 18 15 56
Resolute
eP 18 15 16 c
Shawinigan Falls
eP 18 18 35 c

DECEMBER 5
H = 20 37 15
Mag 1. 8
Penticton
iP₁ 20 37 32. 2
iS₁ 20 37 45. 2
D = 106 km

DECEMBER 5
U. S. C. G. S.
35. 7N, 6. 5W
Straits of Gibraltar
H = 21 21 51. 7
h = 66 km
Ottawa
eP 21 30 55
Resolute
eP 21 31 21
Seven Falls
iP 21 30 27

Shawinigan Falls
eP 21 30 38 c

DECEMBER 5
Resolute
eP 22 08 41?

DECEMBER 5
U. S. C. G. S.
43. 2N, 103. 8E
Outer Mongolia
H = 23 46 29. 8
h = 61 km
Resolute
eP 23 56 44

DECEMBER 6
U. S. C. G. S.
42. 9N, 104. 5E
Outer Mongolia
H = 03 35 30. 6
h = 55 km
Resolute
eP 03 45 46

DECEMBER 6
U. S. C. G. S.
8. 5N, 82. 7W
Near coast of Panama
H = 08 56 16. 5
h = 116 km
Mag 5 1/2

Halifax
eP 09 03 46

Ottawa
eP 09 03 22

Penticton
eP 09 05 12

Resolute
iP 09 06 58 d
i 09 07 03
PP? 09 09 44?
eS 09 15 47
SS 09 20 20?

SEISMOLOGICAL BULLETIN - 1960

Seven Falls	DECEMBER 6	Victoria
iP 09 03 45	U. S. C. G. S.	eP 07 47 20
Shawinigan Falls	11.5N, 125.5E	
eP 09 03 37	Samar, Philippine	
Victoria	Islands	DECEMBER 7
eP 09 05 24	H = 18 19 33.6	Resolute
	h = 25 km	eP 22 59 52
	Resolute	
DECEMBER 6	eP 18 32 36	
U. S. C. G. S.		DECEMBER 8
21.4S, 69.0W		49°44'N, 123°28'W
Northern Chile	DECEMBER 7	Texada Island ?
H = 08 56 07.6	H = 00 42 03	H = 02 30 10
h = 25 km	Mag 1.9	Mag 2.6
Mag 6	Penticton	Alberni
Alberni	eP ₁ 00 42 28.4	iP ₁ 02 30 15.6
eP 09 08 50	eS ₁ 00 42 48.0	iS ₁ 02 30 23.0
Halifax	D = 160 km	D = 60 km
iP 09 06 57 c		Victoria
Ottawa		iP ₁ 02 30 31.0
eP 09 07 01	DECEMBER 7	D = 157 km
Penticton	Resolute	
iP 09 08 37 c	eP? 01 41 38	DECEMBER 8
Seven Falls		Alberni
iP 09 07 12 c		eP 04 04 56.2
Shawinigan Falls	DECEMBER 7	
eP 09 07 09	Resolute	
Victoria	eP 03 16 33 c ?	DECEMBER 8
iP 09 08 43 c,N,W		U. S. C. G. S.
		31.6S, 68.9W
DECEMBER 6	DECEMBER 7	San Juan Province
U. S. C. G. S.	Penticton	Argentina
20.5S, 178.8W	eP 07 44 21.5	H = 11 20 07.8
Fiji Islands region	Victoria	h = 140 km
H = 12 17 38.7	eP 07 44 22.9	Halifax
h = 616 km		iP 11 31 48.5 d
Penticton	DECEMBER 7	Ottawa
eP 12 29 26	U. S. C. G. S.	eP 11 31 52 d
Victoria	62.5N, 150.4W	Seven Falls
eP 12 29 15	Alaska	eP 11 32 01
	H = 07 42 42.5	Shawinigan Falls
	h = 64 km	eP 11 31 58 d
	Penticton	
	eP 07 47 31	
	Resolute	
	eP 07 47 33	
	Shawinigan Falls	
	eP 07 50 50	

DOMINION OBSERVATORIES

DECEMBER 8

U. S. C. G. S.
9. 8N, 125. 5E
Philippine Islands
H = 19 12 11. 0
h = 77 km
Resolute
eP 19 25 14 c

DECEMBER 10

Canadian Arctic
H = 13 02 46. 6
Mag 2. 2
Resolute
P₁ 13 03 08. 4
S₁ 13 03 25. 0
D = 136 km

DECEMBER 11

U. S. C. G. S.
22. 1S, 171. 4E
Loyalty Islands region
H = 00 01 10. 4
h = 144 km
Resolute
eP' 00 19 31

DECEMBER 9

Alberni
eP 04 27 40. 5

DECEMBER 10

U. S. C. G. S.
15. 0S, 172. 3W
Samoa Islands region
H = 13 32 18. 3
h = 25 km

DECEMBER 11

Resolute
eP 00 28 53

DECEMBER 9

Resolute
iP 07 15 36

Penticton
eP 13 44 27

DECEMBER 11

U. S. C. G. S.
1. 6N, 126. 4E
Molucca Passage
H = 03 18 10. 9
h = 52 km
Resolute
eP 03 31 53
e 03 36 00

DECEMBER 9

Penticton
iP₁ 11 24 29. 4
very near Penticton
station

DECEMBER 10

U. S. C. G. S.
1. 5N, 124. 3E
Celebes Sea
H = 13 55 16. 5
h = 292 km

DECEMBER 11

Resolute
eP 03 31 53
e 03 36 00

DECEMBER 9

U. S. C. G. S.
72. 0N, 1. 6W
Jan Mayen Island
region
H = 21 24 57. 0
h = 60 km
Resolute
eP 21 30 19

DECEMBER 10

U. S. C. G. S.
49°36'N, 124°30'W
Texada Island
H = 23 49 03
Mag 1. 8
Alberni
iP₁ 23 49 09. 7
iS₁ 23 49 15. 0
D = 44 km

DECEMBER 11

U. S. C. G. S.
48. 9°N, 129. 7°W
Vancouver Island region
H = 18 58 40. 5
h = 93 km
Mag 3. 8
Alberni
eP_n 18 59 22. 5
D = 360 km
Penticton
eP_n 19 00 10. 2
D = 743 km

DECEMBER 10

U. S. C. G. S.
19. 0N, 119. 5E
Near north coast
of Luzon,
Philippine Islands
H = 06 29 33. 1
h = 60 km
Resolute
eP 06 42 00

Victoria
eP₁ 23 49 25. 9

DECEMBER 11

Banff
eP 19 03 13

SEISMOLOGICAL BULLETIN - 1960

DECEMBER 11

U. S. C. G. S.
15.7S, 166.9E
New Hebrides Islands
region
H = 18 53 09.2
h = 133 km
Mag 6 1/4
Ottawa
eP' 19 11 50
Penticton
eP 19 06 05
Resolute
eP' 19 11 24
Seven Falls
eP' 19 11 56
Shawinigan Falls
eP' 19 11 55

DECEMBER 12

Resolute
eP 02 01 13

DECEMBER 12

Resolute
eP? 06 07 53?

DECEMBER 12

Resolute
iP 11 32 21
i 11 34 19

DECEMBER 13

Resolute
eP 04 30 58

DECEMBER 13

U. S. C. G. S.
52.1S, 160.9E
Macquarie Islands
H = 07 36 13.8
h = 29 km
Mag 7 1/4
Banff
eP' 07 55 37
Halifax
P₁' 07 56 23.5
Ottawa
eP' 07 56 03
Penticton
eP' 07 55 09
Resolute
eP' 07 55 44
Seven Falls
eP' 07 56 01
Shawinigan Falls
eP' 07 55 53
Victoria
eP' 07 56 03 c
eS 08 06 14

DECEMBER 13

21.8S, 175.5W
Tonga Islands
H = 09 03 09.2
h = 84 km
Banff
eP 09 16 01
Penticton
eP 09 15 47

DECEMBER 13

U. S. C. G. S.
27.7N, 142.4E
Bonin Islands region
H = 10 05 24.3
h = 28 km
Banff
eP 10 17 11
Penticton
eP 10 17 02
Resolute
eP 10 16 43

DECEMBER 13

Resolute
eP? 19 21 31?

DECEMBER 14

U. S. C. G. S.
10.8S, 165.4E
Santa Cruz Islands
H = 00 57 25.0
h = 65 km
Penticton
eP 01 10 13
Victoria
e 01 39 03

DECEMBER 14

Resolute
eP 03 46 43?

DECEMBER 11

48.9°N, 129.7°W
Off coast of
Vancouver Island
H = 19 07 55
Mag 3.7
Alberni
eP_n 19 08 37.3
D = 360 km
Penticton
eP_n 19 09 25.5
D = 743 km

DECEMBER 11

Resolute
eP? 20 46 25?

DECEMBER 11

H = 21 44 15
Mag 2.0
Penticton
eP₁ 21 44 38.1
eS₁ 21 44 55.5
D = 142 km

DOMINION OBSERVATORIES

DECEMBER 14
 U. S. C. G. S.
 26. 6N, 130. 3E
 Ryukyu Islands
 region
 H = 04 02 02.1
 h = 25 km
 Resolute
 iP 04 13 40

DECEMBER 14
 U. S. C. G. S.
 32. 8S, 179. 6W
 Kermadec Islands
 region
 H = 08 13 21.2
 h = 25 km
 Resolute
 eP' 08 32 09

DECEMBER 14
 Penticton
 eP 12 15 23

DECEMBER 14
 U. S. C. G. S.
 51. 9S, 160. 7E
 Macquarie Islands
 region
 H = 14 23 25.7
 h = 77 km
 Ottawa
 eP' 14 42 59
 Resolute
 eP' 14 42 49
 Shawinigan Falls
 eP' 14 42 58

DECEMBER 14
 Alberni
 eP 20 01 06

DECEMBER 14
 U. S. C. G. S.
 2. 9N, 126. 5E
 Molucca Passage
 H = 23 51 28.6
 h = 77 km
 Mag 6 3/4
 Banff
 eP 24 05 30
 Halifax
 P' 24 10 40
 Ottawa
 eP' 24 10 29
 Resolute
 eP 24 05 01
 PP? 24 09 06
 eS 24 15 30
 Seven Falls
 eP' 24 10 27
 Shawinigan Falls
 eP' 24 10 29
 Victoria
 iP 24 05 14 c
 ePP 24 08 40
 eS 24 15 44 c
 eL 24 37 47 c

DECEMBER 15
 U. S. C. G. S.
 13. 6N, 120. 7E
 Luzon, Philippine
 Islands
 H = 12 09 54.9
 h = 149 km
 Resolute
 eP 12 22 39

DECEMBER 15
 Resolute
 eP 19 07 21

DECEMBER 15
 12. 2N, 87. 8W
 Near coast of
 Nicaragua
 H = 23 24 35.8
 h = 39 km
 Ottawa
 eP 23 31 24
 Penticton
 eP 23 32 53
 Resolute
 eP 23 34 57
 Seven Falls
 eP 23 31 49
 Shawinigan Falls
 eP 23 31 40

DECEMBER 16
 H = 00 22 37
 Mag 1.9
 Penticton
 eP₁ 00 23 04.4
 eS₁ 00 23 25.0
 D = 168 km

DECEMBER 16
 H = 00 44 34
 Mag 1.8
 Penticton
 eP₁ 00 44 59.5
 eS₁ 00 45 18.9
 D = 159 km

DECEMBER 16
 U. S. C. G. S.
 51. 1N, 170. 6W
 Fox Islands
 H = 01 20 02.2
 h = 32 km
 Banff
 eP 01 26 45
 Ottawa
 eP 01 30 03
 Penticton
 eP 01 26 31
 Resolute
 eP 01 27 19

SEISMOLOGICAL BULLETIN - 1960

Shawinigan Falls eP 01 30 08	DECEMBER 16 H = 23 56 40 Mag 3.0 Penticton eP _n 23 57 31.3 eS _n 23 58 16.2 D = 368 km	Seven Falls iP 07 48 54 c Victoria iP 07 50 32 c
DECEMBER 16 U. S. C. G. S. 16.3S, 178.0E Fiji Islands region H = 08 52 17.3 h = 44 km Penticton eP 09 04 54	DECEMBER 17 U. S. C. G. S. 50.6N, 175.3W Andreanof Islands H = 02 04 35.4 h = 92 km Ottawa eP 02 14 46 Penticton eP 02 11 22 Resolute eP 02 11 59 Seven Falls eP 02 14 55 Shawinigan Falls eP 02 14 53	DECEMBER 17 Resolute eP? 08 26 39?
DECEMBER 16 Resolute eP? 13 12 41?	DECEMBER 17 U. S. C. G. S. 43.8N, 28.9W North Atlantic Ocean H = 18 21 31.7 h = 21 km Halifax iP 18 26 56 c Penticton eP 18 31 31 Resolute eP 18 29 24 eS 18 35 43 i 18 38 52 Seven Falls eP 18 27 36	DECEMBER 17 Resolute eP? 09 19 39
DECEMBER 16 H = 21 05 21 Mag less than 1 Victoria eP ₁ 21 05 30.3 eS ₁ 21 05 37.4 D = 58 km	DECEMBER 17 U. S. C. G. S. 15.1S, 73.5W Southern Peru H = 07 38 31.1 h = 28 km Banff eP 07 50 13 Ottawa eP 07 48 42 Penticton eP 07 50 20 Resolute eP 07 51 34	DECEMBER 17 U. S. C. G. S. 6.4S, 109.3E Java Sea H = 10 37 14.1 h = 295 km Banff iP' 10 55 38 Halifax iP' 10 56 11 d Ottawa eP' 10 56 08 Penticton iP' 10 55 37 d

DOMINION OBSERVATORIES

Resolute		DECEMBER 17	DECEMBER 17
eP	10 51 18	Penticton	Victoria
eP'	10 55 16	eP	eP
Seven Falls		Resolute	23 27 33
eP'	10 56 03	eP	
Shawinigan Falls			DECEMBER 17
eP'	10 56 10		48.9°N, 122.0°W
Victoria		DECEMBER 17	Near Mount Baker,
iP'	10 55 34 d	U. S. C. G. S.	Washington, U. S. A.
		47.3N, 153.6E	H = 23 32 53
		Kurile Islands	Mag 2.0
		H = 16 44 45.4	Penticton
DECEMBER 17		h = 15 km	eP ₁
Victoria		Penticton	23 33 21.8
eP	12 27 52	eP	eS ₁
		16 54 15	23 33 46.5
		Resolute	D = 170 km
		iP	Victoria
DECEMBER 17		16 53 44 c?	eP ₁
Penticton		Shawinigan Falls	23 33 10.6
eP	12 31 37	eP	eS ₁
		16 56 45	23 33 23.8
		Victoria	D = 100 km
		eP	
		16 54 06	
DECEMBER 17			DECEMBER 18
U. S. C. G. S.			Victoria
43.2N, 28.9W		DECEMBER 17	eP
North of Azores		U. S. C. G. S.	00 31 44
H = 13 14 16.8		39.5N, 29.6W	
h = 25 km		Azores	DECEMBER 18
Resolute		H = 18 05 37.0	U. S. C. G. S.
eP	13 22 12	h = 33 km	37.3N, 143.4E
		Resolute	Off east coast of
		eP	Honshu Japan
		18 14 00	H = 07 35 59.8
DECEMBER 17			Resolute
U. S. C. G. S.			iP
11.1N, 141.3E		DECEMBER 17	07 46 09 d?
Mariana Islands		Resolute	
region		eP	19 13 50
H = 13 25 09.1			
h = 25 km			
Penticton		DECEMBER 17	
eP	13 37 59	Resolute	
Resolute		eP?	19 44 50?
iP	13 37 59 d?		
			DECEMBER 18
			Resolute
			iP
			09 11 08
DECEMBER 17			DECEMBER 18
H = 14 06 34		DECEMBER 17	Shawinigan Falls
Mag 1.5		Penticton	eP
Penticton		eP	10 09 19
eP ₁	14 06 51.8		
eS ₁	14 07 05.5		
D = 112 km			

SEISMOLOGICAL BULLETIN - 1960

DECEMBER 18
 U.S.C.G.S.
 8.5N, 125.9E
 Mindanao,
 Philippine Islands
 H = 18 20 43.3
 Resolute
 iP 18 33 58

DECEMBER 19
 U.S.C.G.S.
 8.3N, 38.3W
 Atlantic Ocean
 H = 10 00 33.9
 h = 25 km
 Ottawa
 eP 10 09 25
 Resolute
 eP 10 12 09
 Seven Falls
 iP 10 09 13

DECEMBER 19
 U.S.C.G.S.
 24.3S, 69.6W
 Northern Chile
 H = 13 22 01.3
 h = 17 km
 Resolute
 eP 13 37 01d?
 Shawinigan Falls
 eP 13 33 22

DECEMBER 19
 U.S.C.G.S.
 11.3N, 141.2E
 Mariana Islands
 H = 18 59 40.8
 h = 77 km
 Resolute
 iP 19 12 25

DECEMBER 19
 45°45'N, 75°13'W
 About 10 miles west
 of Ripon, Quebec
 H = 19 27 56.5
 Mag 2.9
 Montreal
 P₁ 19 28 16.9
 S₁ 19 28 32.4
 D = 127 km
 Ottawa
 P₁ 19 28 05.3
 S₁ 19 28 11.9
 D = 54 km
 Seven Falls
 S₁ 19 29 42.2
 D = 372 km
 Shawinigan Falls
 S₁ 19 28 54.4
 D = 210 km

DECEMBER 20
 U.S.C.G.S.
 25.1N, 122.9E
 Near north coast of
 Formosa
 H = 06 04 33.6
 h = 60 km
 Resolute
 iP 06 16 26

DECEMBER 21
 H = 11 22 21
 Mag 2.4
 Penticton
 eP_n 11 22 59.5
 eS_n 11 23 31.5
 D = 262 km

DECEMBER 21
 U.S.C.G.S.
 61.6N, 152.3W
 Alaska
 H = 14 40 01.6
 h = 169 km
 Mag 5 3/4
 Alberni
 iP 14 44 23
 Banff
 iP 14 44 54 d
 Halifax
 iP 14 48 54 d
 Ottawa
 eP 14 48 08 d
 Penticton
 iP 14 44 48 d
 Resolute
 iP 14 45 02
 S? 14 49 06?
 SS? 14 49 49
 Seven Falls
 iP 14 48 15 d
 Shawinigan Falls
 eP 14 48 12
 Victoria
 iP 14 44 36 d,N,W

DECEMBER 21
 U.S.C.G.S.
 11.2N, 141.3E
 Mariana Islands region
 H = 20 53 51.8
 h = 72 km
 Resolute
 eP 21 06 37

DECEMBER 21
 Resolute
 eP 21 35 40

DOMINION OBSERVATORIES

DECEMBER 21 62. 5S, 167. 1E North of Balleny Islands H = 22 29 54. 9 h = 29 km Resolute eP ₁ ' 22 49 45	Seven Falls eP 03 57 38 Victoria eP 03 59 11	DECEMBER 22 U.S.C.G.S. 30. 5S, 71. 5W Near coast of Chile H = 12 21 33. 0 h = 110 km Penticton eP 12 34 25
DECEMBER 22 Resolute eP 01 24 35?	DECEMBER 22 U.S.C.G.S. 30. 8S, 177. 1W Kermadec Islands region H = 06 31 21. 5 h = 46 km Ottawa eP' 06 50 07 Penticton eP 06 44 42 Resolute eP' 06 50 03 c Victoria eP 06 44 30	DECEMBER 22 Resolute eP? 13 25 36?
DECEMBER 22 U.S.C.G.S. 29. 8S, 179. 6W Kermadec Islands region H = 02 25 29. 3 h = 379 km Resolute iP' 02 43 32	DECEMBER 22 U.S.C.G.S. 43. 1N, 126. 2W Off coast of northern California H = 11 41 06. 0 h = 51 km Mag 3. 8 (Vic.) Alberni eP _n 11 42 37. 0 D = 565 km Penticton eP _n 11 42 55. 2 D = 715 km Resolute eP 11 47 54 Victoria eP _n 11 42 28. 1 D = 492 km	DECEMBER 22 U.S.C.G.S. 53. 7N, 168. 1W Fox Islands H = 14 27 40. 3 h = 57 km Ottawa eP 14 37 21 Penticton eP 14 33 51 Resolute eP 14 34 31 d i 14 37 03 Seven Falls eP 14 37 29 Shawinigan Falls eP 14 37 25
DECEMBER 22 U.S.C.G.S. 9. 8N, 94. 2E Nicobar Islands H = 03 02 29. 2 h = 60 km Resolute eP 03 15 48 i 03 15 56	DECEMBER 22 U.S.C.G.S. 6. 8S, 155. 3E Solomon Islands H = 21 02 41. 1 h = 469 km Mag 5 1/2 Ottawa eP' 21 20 46	DECEMBER 22 Resolute iP 14 40 38 c?
DECEMBER 22 U.S.C.G.S. 16. 1S, 72. 9W Near coast of southern Peru H = 03 47 21. 7 h = 147 km Penticton eP 03 59 05 Resolute eP 04 00 17		

SEISMOLOGICAL BULLETIN - 1960

Penticton
iP 21 15 03 c
e 21 30 11
e 21 32 19

Resolute
eP 21 15 47
i 21 25 44
i 21 31 50

Seven Falls
eP' 21 20 50
e 21 28 42

Shawinigan Falls
eP' 21 20 49

DECEMBER 22

Penticton
eP 23 32 15.3

DECEMBER 22

H = 23 59 17
Mag 2.0

Penticton
iP₁ 23 59 44.8
iS₁ 24 00 05.8
D = 172 km

DECEMBER 23

H = 00 34 35
Mag 0.8

Penticton
eP₁ 00 34 39.3
eS₁ 00 34 42.4
D = 26 km

DECEMBER 23

H = 00 48 25
Mag 0.6

Penticton
eP₁ 00 48 29.6
eS₁ 00 48 32.8
D = 26 km

DECEMBER 23

H = 02 07 43
Mag 2.5

Penticton
eP_n 02 08 23.3
eS_n 02 08 57.3
D = 278 km

DECEMBER 23

U. S. C. G. S.
14.3N, 92.2W
Guatemala-Mexico
border region
H = 06 07 01.1
h = 48 km

Ottawa
eP 06 13 43
Penticton
eP 06 14 47
Resolute
eP 06 17 08

DECEMBER 23

U. S. C. G. S.
3.3S, 101.9E
Near coast of
Sumatra
H = 09 41 48.4
h = 134 km

Penticton
eP' 10 00 32
Resolute
eP' 10 00 04
Seven Falls
eP' 10 00 51
Shawinigan Falls
eP' 10 01 01
Victoria
eP' 10 00 29

DECEMBER 23

U. S. C. G. S.
8.2N, 125.7E
Mindanao, Philippine
Islands
H = 10 47 57.9
h = 67 km
Resolute
eP 11 01 10

DECEMBER 23

Resolute
eP 13 20 42?

DECEMBER 23

U. S. C. G. S.
8.8N, 125.7E
Mindanao, Philippine
Islands
H = 15 47 04.9
h = 120 km
Resolute
eP 16 00 09

DECEMBER 23

H = 16 29 43
Mag 2.5
Penticton
eP_n 16 30 24.6
eS_n 16 30 59.5
D = 285 km

DECEMBER 23

Resolute
eP 17 06 55?

DOMINION OBSERVATORIES

DECEMBER 23	Resolute	DECEMBER 24
U. S. C. G. S.	eP? 09 03 36?	U. S. C. G. S.
15. 6N, 121. 7E		3. 6S, 77. 8W
Near east coast of		Peru-Ecuador border
Luzon, Philippine	DECEMBER 24	region
Islands	Resolute	H = 23 18 29. 2
H = 19 30 41. 6	eP 12 36 12	h = 25 km
h = 49 km		Banff
Resolute		eP 23 28 58
eP 19 43 23	DECEMBER 24	Ottawa
	U. S. C. G. S.	eP 23 27 17
	38. 4S, 143. 6E	Penticton
DECEMBER 23	Victoria Australia	eP 23 29 05
Seven Falls	H = 16 42 14. 7	Resolute
eP 20 59 23	h = 77 km	eP 23 30 33
	Resolute	Seven Falls
	eP' 17 01 29	eP 23 27 33
	Seven Falls	Shawinigan Falls
	eP' 17 02 10 d	eP 23 27 28
	Shawinigan Falls	
	iP' 17 02 07 d	
DECEMBER 24		DECEMBER 25
H = 03 22 18	DECEMBER 24	Resolute
Mag 2. 3	48°31'N, 123°58'W	eP 01 23 28
Penticton	Lower Vancouver	
eP _n 03 22 56. 7	Island	DECEMBER 25
eS _n 03 23 28. 3	H = 17 47 58	H = 04 23 01
D = 259 km	Mag 1. 6	Mag 2. 1
	Alberni	Penticton
DECEMBER 24	eP ₁ 17 48 14. 8	eP _n 04 23 39. 1
U. S. C. G. S.	D = 106 km	eS _n 04 24 10. 6
17. 6S, 66. 6E	Victoria	D = 258 km
Indian Ocean	iP ₁ 17 48 04. 4	
H = 03 55 33. 7	iS ₁ 17 48 09. 3	DECEMBER 25
h = 100 km	D = 40 km	U. S. C. G. S.
Penticton		29. 0N, 142. 8E
eP ₁ ' 04 15 11		Bonin Islands
		H = 05 21 03. 1
DECEMBER 24		h = 25 km
H = 08 09 50	DECEMBER 24	Resolute
Mag 2. 1	48°47'N, 122°32'W	eP 05 32 16
Penticton	Whidbey Island	
eP _n 08 10 21. 5	H = 18 50 16	
eS _n 08 10 46. 1	Mag 2. 1	
D = 201 km	Penticton	
	eP _n 18 50 52. 6	
	D = 244 km	
DECEMBER 24	Victoria	
Penticton	iP ₁ 18 50 27. 2	
eP 09 02 23	iS ₁ 18 50 35. 6	
	D = 69 km	

SEISMOLOGICAL BULLETIN - 1960

DECEMBER 25 H = 06 37 51 Mag 2.4 Penticton eP _n 06 38 29.9 eS _n 06 39 01.8 D = 261 km	DECEMBER 26 U. S. C. G. S. 33.8N, 136.2E Near south coast of Honshu Japan H = 01 44 48.7 h = 109 km Penticton eP 01 56 14 Resolute iP 01 55 31d?	DECEMBER 26 Resolute eP? 06 26 57
DECEMBER 25 Resolute eP? 11 22 41?	DECEMBER 26 U. S. C. G. S. 57.4S, 26.2W Sandwich Islands H = 04 32 30.1 h = 25 km Mag 5 1/4 Alberni e 04 55 03 Banff eP' 04 51 40 Penticton eP' 04 51 42 e 04 54 53 Resolute iP' 04 51 46 e 04 55 20 e 05 13 08 Victoria e 04 54 58	DECEMBER 26 Canadian Arctic H = 13 45 35.0 h = 22 km Mag 2.1 Resolute P _n 13 46 00.5 P ₁ 13 46 02.0 S _n 13 46 19.5 S ₁ 13 46 22.3 D = 166 km
DECEMBER 25 Resolute eP? 11 35 10	DECEMBER 25 Ottawa eP 12 55 09	DECEMBER 26 H = 14 49 06 Mag 1.7 Penticton eP ₁ 14 49 25.0 eS ₁ 14 49 39.3 D = 117 km
DECEMBER 25 Ottawa eP 17 23 13	DECEMBER 25 54.6N, 161.6E Near east coast of Kamchatka H = 20 27 34.1 h = 37 km Resolute eP 20 35 21	DECEMBER 26 Resolute eP? 20 07 57?
DECEMBER 26 U. S. C. G. S. 23.7S, 176.9W Tonga Islands region H = 00 56 16.6 h = 59 km Penticton eP 01 09 09 Resolute e 01 12 05	DECEMBER 26 U. S. C. G. S. 8.3N, 83.2W Costa Rica - Panama border region H = 05 36 43.8 h = 104 km Penticton eP 05 45 40 Resolute eP 05 47 27	DECEMBER 26 Resolute eP? 22 55 29
		DECEMBER 27 Resolute eP 05 28 33?

SEISMOLOGICAL BULLETIN - 1960

Shawinigan Falls eP 10 49 48	DECEMBER 29 Resolute eP? 21 23 27?	DECEMBER 30 H = 17 30 10 Mag 0.5 Penticton iP ₁ 17 30 13.4 iS ₁ 17 30 16.0 D = 22 km
DECEMBER 29 U. S. C. G. S. 10.1S, 76.0W	DECEMBER 29 Resolute eP? 22 24 21?	
Peru H = 11 04 19.0 h = 19 km	DECEMBER 29 Resolute eP 11 16 57	DECEMBER 30 Resolute eP? 19 20 26
Resolute eP 11 16 57	DECEMBER 29 Resolute eP 22 37 13?	
DECEMBER 29 U. S. C. G. S. 35.3N, 22.6E	DECEMBER 29 Resolute eP 23 21 30?	DECEMBER 30 H = 22 08 19 Mag 0.6 Penticton iP ₁ 22 08 22.3 iS ₁ 22 08 24.7 D = 20 km
Near Crete H = 18 19 41.6 h = 54 km	DECEMBER 30 Resolute eP 01 53 22?	DECEMBER 30 H = 22 54 30 Mag 2.0 Penticton iP ₁ 22 54 56.3 iS ₁ 22 55 16.0 D = 161 km
Ottawa eP 18 30 56	DECEMBER 30 Resolute eP? 06 12 55?	
Resolute eP 18 30 06	DECEMBER 30 Resolute eP? 08 38 55	DECEMBER 31 Resolute eP? 09 03 48
Seven Falls iP 18 30 31 d	DECEMBER 30 Resolute eP? 08 38 55	
DECEMBER 29 U. S. C. G. S. 18.8S, 69.4W	DECEMBER 30 U. S. C. G. S. 16.9S, 70.0W	DECEMBER 31 Resolute eP 14 59 37
Northern Chile H = 19 01 38.1 h = 39 km	Southern Peru H = 11 03 36.8 h = 47 km	
Banff eP 19 13 46	Ottawa eP 11 13 58	
Halifax iP 19 12 08.5 c	Penticton eP 11 14 40	
Ottawa iP 19 12 14 d	Resolute eP? 11 16 48?	
Resolute eP 19 14 59 d	Seven Falls iP 11 14 08 c	
Penticton iP 19 13 54 d		
Seven Falls iP 19 12 24 d		
Shawinigan Falls iP 19 12 21 d		
Victoria iP 19 14 00d,SE		

DOMINION OBSERVATORIES

DECEMBER 31

U. S. C. G. S.

43. 9S, 75. 0W

Near coast of
southern Chile

H = 18 08 12. 3

h = 92 km

Mag 6 1/2

Ottawa

eP 18 21 02

Resolute

eP' 18 26 55?

Seven Falls

eP 18 21 11

DECEMBER 31

H = 21 06 25

Mag 2. 0

Penticton

iP₁ 21 06 53. 6

iS₁ 21 07 15. 4

D = 179 km

DECEMBER 31

H = 21 46 31

Mag 2. 2

Penticton

iP_n 21 47 04. 0

iS_n 21 47 29. 8

D = 211 km

DECEMBER 31

H = 22 23 03

Mag 2. 2

Penticton

iP_n 22 23 35. 8

eS_n 22 24 02. 1

D = 215 km

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN THE CANADIAN ARCTIC

The following disturbances were recorded during the last quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

OCTOBER 4 at 02 27 50 U. T. Magnitude 1.9. Originated 254 km from Resolute, N. W. T.

OCTOBER 4 at 04 04 30 U. T. Magnitude 1.9. Originated 217 km from Resolute, N. W. T.

OCTOBER 8 at 06 49 20 U. T. Magnitude 3.2. Originated 440 km from Resolute, N. W. T., at a depth of about 15 km.

OCTOBER 14 at 08 11 51 U. T. Magnitude 2.5. Originated 57 km from Resolute, N. W. T.

OCTOBER 14 at 20 46 50 U. T. Magnitude 2.7. Originated 210 km from Resolute, N. W. T., at a depth of about 20 km.

OCTOBER 15 at 02 48 47 U. T. Magnitude 1.5. Originated 164 km from Resolute, N. W. T., at a depth of about 24 km.

OCTOBER 19 at 00 23 04 U. T. Magnitude 1.6. Originated 49 km from Resolute, N. W. T.

OCTOBER 22 at 15 27 37 U. T. Magnitude 4.1. Originated 730 km from Resolute, N. W. T., at a depth of about 14 km.

NOVEMBER 4 at 09 54 35 U. T. Magnitude 1.7. Originated 49 km from Resolute, N. W. T.

NOVEMBER 10 at 22 32 24 U. T. Magnitude 3.3. Originated 550 km from Resolute, N. W. T.

NOVEMBER 16 at 08 48 58 U. T. Magnitude 1.7. Originated 49 km from Resolute, N. W. T.

DECEMBER 2 at 22 54 15 U. T. Magnitude 2.4. Originated 174 km from Resolute, N. W. T.

DECEMBER 10 at 13 02 47 U. T. Magnitude 2.2. Originated 136 km from Resolute, N. W. T.

DECEMBER 26 at 13 45 35 U. T. Magnitude 2.1. Originated 166 km from Resolute, N. W. T., at a depth of about 22 km.

DECEMBER 28 at 19 45 40 U. T. Magnitude 4.3. Originated 1125 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 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin.

NOVEMBER 3 at 04 11 47 U.T. Magnitude 2.7. Epicentre at 48°00'N, 74°52'W. About 15 miles west of Parent, Quebec, where it was felt by a few persons.

DECEMBER 19 at 19 27 57 U.T. Magnitude 2.9. Epicentre at 45°45'N, 75°13'W. About 10 miles west of Ripon, Quebec.

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN WESTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the fourth quarter of 1960. The times of observed phases are given at their respective chronological positions in the text of this bulletin. 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 5 at 02 59 47 U.T. Magnitude 2.4. Epicentre at 48°36'N, 123°52'W. Southern Vancouver Island. Q:b.

OCTOBER 5 at 08 24 58 U.T. Magnitude 1.9. 108 km from Victoria.

OCTOBER 8 at 00 37 23 U.T. 56 km from Alberni. Texada?

OCTOBER 8 at (10 54 24.7) ? U.T. Magnitude approximately 2.

OCTOBER 10 at 15 06 38 U.T. Magnitude 2.5. 166 km from Penticton

OCTOBER 10 at 23 54 32 U.T. Magnitude 4.5. Epicentre at 53N, 133W. Off the southern Queen Charlottes. Q:d .

OCTOBER 10 at 23 24 25 U.T. Magnitude 2.5. 105 km from Alberni.

OCTOBER 11 at 10 41 51 U.T. Magnitude 3.1. 275 km from Victoria and 440 km from Penticton. North of Portland, Oregon, U.S.A.

OCTOBER 11 at 11 54 48 U.T. Magnitude 3.5. Epicentre at 46.0N, 122.2W. Northeast of Portland, Oregon, U.S.A. Q:b.

OCTOBER 11 at 12 48 15 U.T. Magnitude 3.1. 418 km from Penticton. Aftershock of previous Portland, Oregon tremor?

OCTOBER 12 at 05 17 14 U.T. Magnitude 2.3. Epicentre at 48.0N, 123.6W. Southwest of Port Angeles, Washington, U.S.A. Q:b.

OCTOBER 27 at 07 34 59.5 U.T. Magnitude 1.7. 88 km from Penticton.

OCTOBER 28 at 19 55 23.2 U.T. Magnitude 2.2. 60 km from Alberni.

OCTOBER 29 at 01 47 33.6 U.T. Magnitude 2.7. 150 km from Penticton.

OCTOBER 29 at 23 40 56.9 U.T. Magnitude 2.2. 53 km from Alberni.

DOMINION OBSERVATORIES

NOVEMBER 1 at 06 34 02 U. T. Magnitude 1.7. Epicentre at 48°42'N, 123°12'W. Gulf Islands. Q:b.

NOVEMBER 1 at 08 37 23 U. T. Magnitude 3.0. Epicentre at 47.1N, 126.4W. Off coast of Washington, U.S.A. Q:c.

NOVEMBER 1 at 16 12 41 U. T. Magnitude 1.0. 30 km from Penticton.

NOVEMBER 2 at 00 01 40 U. T. Magnitude 0.6. 20 km from Victoria.

NOVEMBER 2 at 22 25 29 U. T. Magnitude 2.0. Epicentre at 48°28'N, 123°52'W. Southern Vancouver Island. Q:c.

NOVEMBER 4 at 00 29 14 U. T. Magnitude 1.5. Epicentre at 49.1N, 120.6W. Near Copper Mountain? Q:c.

NOVEMBER 5 at 02 08 21 U. T. Magnitude 2. Epicentre at 49°41'N, 124°30'W. Texada Island blast? Q:b.

NOVEMBER 5 at 03 07 31 U. T. Magnitude 1.8. 135 km from Penticton.

NOVEMBER 7 at 00 57 08 U. T. Magnitude 1.7. 140 km from Penticton.

NOVEMBER 8 at 11 00 15 U. T. Magnitude 0.7. 18 km from Banff.

NOVEMBER 8 at 11 36 27.2 U. T. Magnitude 4.9. Near coast of Oregon, U.S.A.

NOVEMBER 9 at 00 41 44 U. T. Magnitude 1.9. 144 km from Penticton.

NOVEMBER 10 at 19 38 55 U. T. Magnitude 0.9. 30 km from Penticton.

NOVEMBER 14 at 08 03 07 U. T. Magnitude 2.5. 192 km from Penticton.

NOVEMBER 14 at 10 25 04 U. T. Magnitude 1.9. 150 km from Penticton.

NOVEMBER 15 at 20 28 25 U. T. Magnitude 2.0. 229 km from Penticton.

NOVEMBER 15 at 22 32 41 U. T. Magnitude 1.8. 132 km from Penticton.

SEISMOLOGICAL BULLETIN - 1960

NOVEMBER 15 at 23 25 07 U. T. Magnitude 1.7. 152 km from
Penticton.

NOVEMBER 16 at 23 55 53 U. T. Magnitude 1.7. 174 km from
Penticton.

NOVEMBER 17 at 00 48 46 U. T. Magnitude 1.9. Epicentre at 49.0N,
121.5W. South of Hope, B. C. Q:c.

NOVEMBER 17 at 12 41 20 U. T. Magnitude 1.4. 118 km from
Penticton.

NOVEMBER 19 at 00 45 30 U. T. Magnitude 1.9. 140 km from
Penticton.

NOVEMBER 19 at 06 38 30 U. T. Magnitude 2.1. 76 km from
Alberni.

NOVEMBER 19 at 15 00 56 U. T. Magnitude 1.3. 131 km from
Penticton.

NOVEMBER 19 at 19 52 02 U. T. Magnitude 2.5. 276 km from
Penticton.

NOVEMBER 20 at 00 23 16 U. T. Magnitude 2.0. 168 km from
Penticton.

NOVEMBER 21 at 00 55 05 U. T. Magnitude 1.8. 142 km from
Penticton.

NOVEMBER 22 at 23 54 21 U. T. Magnitude 2.1. 178 km from
Penticton.

NOVEMBER 23 at 00 51 32 U. T. Magnitude 1.8. 155 km from
Penticton.

NOVEMBER 23 at 17 09 09 U. T. Magnitude 2.0. 168 km from
Penticton.

NOVEMBER 25 at 00 54 09 U. T. Magnitude 1.9. 151 km from
Penticton.

NOVEMBER 27 at 21 54 09 U. T. Magnitude 1.8. 155 km from
Penticton.

NOVEMBER 28 at 11 24 51 U. T. Magnitude 1.5. 104 km from
Penticton.

DOMINION OBSERVATORIES

- DECEMBER 1 at 20 45 03 U. T. Magnitude 3.6. Epicentre at 49.4N, 129.3W. Off west coast of Vancouver Island. Q:b.
- DECEMBER 1 at 20 49 45.5 U. T. Magnitude 6. Epicentre at 48.5N, 129.1W. Off coast of Vancouver Island. Q:b.
- DECEMBER 1 at 21 05 21 U. T. Magnitude 2.3. Epicentre at 48°11'N, 124°53'W. Off coast of Washington, Q:b.
- DECEMBER 1 at 21 18 49 U. T. Magnitude 3.3. Epicentre at 48.5N, 129.2W. Off west coast of Vancouver Island. Q:c.
- DECEMBER 1 at 21 49 37.2 U. T. Magnitude 3.8. Epicentre at 48.7N, 129.2W. Near coast of Vancouver Island. Q:b.
- DECEMBER 1 at 21 57 43 U. T. Magnitude 3.4. Epicentre at 48.9N, 129.2W. 432 km from Victoria and 324 km from Alberni. Q:c.
- DECEMBER 1 at 22 05 30 U. T. Magnitude 3.7. Epicentre at 48.5N, 129.2W. 427 km from Victoria and 329 km from Alberni. Q:c.
- DECEMBER 1 at 22 33 53 U. T. Magnitude 3.2. Epicentre at 49N, 129W. 444 km from Victoria and 330 km from Alberni. Q:c-.
- DECEMBER 1 at 22 54 55 U. T. Magnitude 3.5. 429 km from Victoria and 329 km from Alberni. Off the coast of Vancouver Island. Q:c.
- DECEMBER 3 at 15 51 31 U. T. Magnitude 2.5. 88 km from Alberni.
- DECEMBER 3 at 22 26 08 U. T. Magnitude 3.8. Epicentre at 45.8N, 125.0W. Off coast of Oregon, Washington, U. S. A. Q:c.
- DECEMBER 5 at 13 33 50 U. T. Magnitude 2.0. 47 km from Alberni.
- DECEMBER 5 at 15 38 46 U. T. Magnitude 1.5. 43 km from Victoria.
- DECEMBER 5 at 20 37 15 U. T. Magnitude 1.8. 106 km from Penticton.
- DECEMBER 7 at 00 42 03 U. T. Magnitude 1.9. 160 km from Penticton.
- DECEMBER 8 at 02 30 10 U. T. Magnitude 2.6. Epicentre at 49°44'N, 123°28'W. Texada Island? Q:c.
- DECEMBER 9 at 11 24 29 Very near Penticton station.

SEISMOLOGICAL BULLETIN - 1960

DECEMBER 10 at 23 49 03 U.T. Magnitude 1.8. Epicentre at 49°36'N, 124°30'W. Texada Island. Q:c.

DECEMBER 11 at 18 58 40.5 U.T. Magnitude 3.8. Epicentre at 48.9N, 129.7W. Vancouver Island region.

DECEMBER 11 at 19 07 55 U.T. Magnitude 3.7. Epicentre at 48.9N, 129.7W. 360 km from Alberni and 743 km from Penticton. Q:c.

DECEMBER 11 at 21 44 15 U.T. Magnitude 2.0. 142 km from Penticton.

DECEMBER 16 at 00 22 37 U.T. Magnitude 1.9. 168 km from Penticton.

DECEMBER 16 at 00 44 34 U.T. Magnitude 1.8. 159 km from Penticton.

DECEMBER 16 at 21 05 21 U.T. Magnitude less than 1. 58 km from Victoria.

DECEMBER 16 at 23 56 40 U.T. Magnitude 3.0. 368 km from Penticton.

DECEMBER 17 at 07 34 15 U.T. Magnitude 2.7. 262 km from Penticton.

DECEMBER 17 at 09 48 19 U.T. Magnitude 2.4. 263 km from Penticton.

DECEMBER 17 at 14 06 34 U.T. Magnitude 1.5. 112 km from Penticton.

DECEMBER 17 at 23 32 53 U.T. Magnitude 2.0. Epicentre at 48.9N, 122W. Near Mount Baker.

DECEMBER 21 at 11 22 21 U.T. Magnitude 2.4. 262 km from Penticton.

DECEMBER 22 at 11 41 21 U.T. Magnitude 3.8. Epicentre at 44N, 125W. Off coast of Oregon, U.S.A. Q:c-

DECEMBER 22 at 23 59 17 U.T. Magnitude 2.0. 172 km from Penticton.

DECEMBER 23 at 00 34 35 U.T. Magnitude 0.8. 26 km from Penticton.

DECEMBER 23 at 00 48 25 U.T. Magnitude 0.6. 26 km from Penticton.

DOMINION OBSERVATORIES

- DECEMBER 23 at 02 07 43 U. T. Magnitude 2.5. 278 km from Penticton.
- DECEMBER 23 at 16 29 43 U. T. Magnitude 2.5. 285 km from Penticton.
- DECEMBER 24 at 03 22 18 U. T. Magnitude 2.3. 259 km from Penticton.
- DECEMBER 24 at 08 09 50 U. T. Magnitude 2.1. 201 km from Penticton.
- DECEMBER 24 at 17 47 58 U. T. Magnitude 1.6. Epicentre at 48° 31'N, 123°58'W. Lower Vancouver Island. Q:b.
- DECEMBER 24 at 18 50 16 U. T. Magnitude 2.1. Epicentre at 48° 47'N, 122°32'W. Widbey Island. Q:b-
- DECEMBER 25 at 04 23 01 U. T. Magnitude 2.1. 258 km from Penticton.
- DECEMBER 25 at 06 37 51 U. T. Magnitude 2.4. 261 km from Penticton.
- DECEMBER 26 at 14 49 06 U. T. Magnitude 1.7. 117 km from Penticton.
- DECEMBER 30 at 17 30 10 U. T. Magnitude 0.5. 22 km from Penticton.
- DECEMBER 30 at 22 08 19 U. T. Magnitude 0.6. 20 km from Penticton.
- DECEMBER 30 at 22 54 30 U. T. Magnitude 2.0. 161 km from Penticton.
- DECEMBER 31 at 21 06 25 U. T. Magnitude 2.0. 179 km from Penticton.
- DECEMBER 31 at 21 46 31 U. T. Magnitude 2.2. 211 km from Penticton.
- DECEMBER 31 at 22 23 03 U. T. Magnitude 2.2. 215 km from Penticton.