



SEISMOLOGICAL SERIES
of the
DOMINION OBSERVATORY

1961-1

(Continued)

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Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1962

SEISMOLOGICAL BULLETIN - 1961

JULY - AUGUST 1961

NOTES

1. Alberni Not operating from September 23 - 30 inclusive.
2. Alert,
N. W. T. Commenced operations September 29. Calibration curves will be published in October - December bulletin.

Mr. W. R. Darker is operator-in-charge of Alert Seismological Station.
3. Resolute,
N. W. T. Mr. C. H. McCloughan succeeded Mr. M. I. Strader as operator-in-charge of the Seismological Station on August 10, 1961.

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DOMINION OBSERVATORIES

JULY 1
 U. S. C. G. S.
 53. 9N, 164. 3W
 Unimak Island
 H = 00 02 39. 2
 h = 34 km

Penticton
 eP 00 08 29
 Shawinigan Falls
 eP 00 12 12
 Victoria
 eP 00 08 13

JULY 1
 Canadian Arctic
 H = 02 06 28. 1
 Mag 1. 4
 Resolute
 iP₁ 02 06 34. 5
 iS₁ 02 06 39. 4
 D = 40. 2 km

JULY 1
 U. S. C. G. S.
 29. 8N, 140. 5E
 Bonin Islands
 H = 08 00 15. 4
 h = 181 km
 Penticton
 eP 08 11 33
 Resolute
 eP 08 11 09
 Victoria
 eP 08 11 23

JULY 1
 47. 9N, 123. 7W
 Olympic Mountains,
 Washington, U. S. A.
 H = 08 59 59
 Mag 2. 2
 Alberni
 eP₁ 09 00 26. 5
 eS₁ 09 00 47. 2
 D = 169 km

Victoria
 eP₁ 09 00 09. 5
 eS₁ 09 00 17. 4
 D = 65 km

JULY 1
 47. 8N, 123. 8W
 Olympic Mountains
 Washington, U. S. A.
 H = 09 24 36
 Mag 2. 3

Alberni
 eP_n 09 25 05. 7
 eS_n 09 25 28. 0
 D = 189 km
 Victoria
 eP₁ 09 24 49. 5
 eS₁ 09 24 57. 4
 D = 84 km

JULY 1
 Resolute
 eP 12 54 40

JULY 1
 U. S. C. G. S.
 15. 3S, 75. 0W
 Near coast of Peru
 H = 13 10 46. 6
 h = 146 km
 Banff
 eP 13 22 56
 Halifax
 iP 13 20 47 d
 Ottawa
 eP 13 20 45
 Penticton
 eP 13 22 20 c
 Resolute
 eP 13 23 38
 Shawinigan Falls
 eP 13 20 51 c
 Victoria
 eP 13 22 28

JULY 1
 U. S. C. G. S.
 17. 9S, 178. 4W
 Fiji Islands
 H = 18 50 57. 5
 h = 601 km

Penticton
 eP 19 02 35
 Victoria
 eP 19 02 22

JULY 1
 U. S. C. G. S.
 53. 7N, 169. 8E
 Near Islands
 H = 23 44 05. 7
 h = 19 km

Ottawa
 eP 23 54 57
 Penticton
 eP 23 52 04
 Resolute
 eP 23 51 47
 Shawinigan Falls
 eP 23 55 00 c

JULY 2
 U. S. C. G. S.
 42. 8N, 143. 1E
 Hokkaido Japan
 H = 02 07 14. 4
 h = 151 km
 Ottawa
 eP 02 19 40
 Resolute
 iP 02 16 46 c

JULY 2
 H = 07 28 28
 Mag 2. 5
 Penticton
 eP_n 07 29 16. 3
 eS_n 07 29 57. 6
 D = 338 km

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JULY 2

U. S. C. G. S.
20.7N, 142.6E
Bonin Islands
H = 10 10 16.3
h = 64 km
Resolute
eP 10 22 10

JULY 4

H = 03 04 41
Penticton
eP_n 03 05 39.3
eS_n 03 06 13.5
D = 280 km

JULY 4

Canadian Arctic
H = 06 17 56.9
Mag 1.4
Resolute
iP₁ 06 18 14
iS₁ 06 18 27
D = 106.5 km

JULY 4

Canadian Arctic
H = 04 49 05.9
Mag 1.5
Resolute
iP₁ 04 49 23
iS₁ 04 49 36
D = 106.5 km

JULY 4

U. S. C. G. S.
17.9N, 146.4E
Mariana Islands
H = 06 10 44.8
h = 145 km
Penticton
eP 06 22 38
Resolute
iP 06 22 42
Victoria
eP 06 22 25

JULY 2

H = 16 54 03
Alberni
eP₁ 16 54 17.5
eS₁ 16 54 29.1
D = 95 km
Victoria
eP₁ 16 54 28.3
eS₁ 16 54 47.5
D = 160 km

JULY 4

U. S. C. G. S.
40.8N, 118.0W
Western Nevada
H = 04 56 03.7
h = 61 km
Mag 5 3/4

JULY 4

Canadian Arctic
H = 07 17 55.9
Mag 1.8
Resolute
iP₁ 07 18 13
iS₁ 07 18 26
D = 106.5 km

JULY 3

U. S. C. G. S.
8.6S, 79.2W
Near coast of Peru
H = 14 49 30.8
h = 86 km
Ottawa
eP 14 58 50
Penticton
eP 15 00 24
Resolute
eP 15 01 54
Shawinigan Falls
eP 14 59 01
Victoria
eP 15 00 32

Halifax
iP 05 03 32.5 c
Ottawa
eP 05 02 18
Penticton
eP 04 58 07
Resolute
eP 05 02 57
Victoria
eP 04 58 07

JULY 4

Canadian Arctic
H = 10 20 41.9
Mag 2.1

JULY 4

Canadian Arctic
H = 05 39 37.9
Mag 1.5
Resolute
iP₁ 05 39 55
iS₁ 05 40 08
D = 106.5 km

Resolute

iP₁ 10 20 59
iS₁ 10 21 12
D = 106.5 km

JULY 3

Canadian Arctic
H = 22 57 07
Mag 1.9
Resolute
iP₁ 22 57 15.0
iS₁ 22 57 21.1
D = 50 km

JULY 4

U. S. C. G. S.
40.8N, 117.8W
Western Nevada
H = 11 09 10.6
h = 43 km
Mag 5 1/4

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Penticton eP 11 11 16	Victoria eP 05 12 36	JULY 6 U.S.C.G.S. 7.0S, 13.1W Ascension Island region H = 16 08 20.8 h = 19 km
JULY 4 Victoria eP 11 13 36	JULY 5 Penticton eP ₁ 11 44 37.9	Ottawa eP 16 20 11 c
JULY 4 Resolute eP 23 00 43?	JULY 5 50°18'N, 66°43'W About 20 miles northwest of Sept-Iles, Quebec H = 22 43 44.1 Mag 5.0 Halifax	Resolute eP 16 21 43
JULY 5 U.S.C.G.S. 29.2N, 129.5E Ryukyu Islands H = 02 22 02.9 h = 97 km Resolute eP 02 33 23 c?	iP _n 22 45 11.0 d i 22 45 20.3 eS _n 22 46 14.3 eLg 22 46 45(?) D = 670 km	Shawinigan Falls eP 16 20 04 c
JULY 5 U.S.C.G.S. 58.2S, 150.4E Southwest of Macquarie Island H = 02 28 38.2 h = 25 km Ottawa eP ₁ ' 02 48 33 Shawinigan Falls eP ₁ ' 02 48 44	Montreal eP _n 22 45 19.6 i 22 45 28.8 i 22 45 37.1 iS _n 22 46 28.5 Lg 22 47 02 D = 740 km	JULY 6 Alberni eP _n 18 23 34.1 Victoria eP _n 18 23 46.8
JULY 5 U.S.C.G.S. 15.1N, 60.4W Windward Islands H = 05 02 28.9 h = 91 km Ottawa eP 05 08 57 c Penticton eP 05 12 26 Shawinigan Falls eP 05 08 59	Ottawa eP _n 22 45 36 iS _n 22 46 56.2 Lg 22 47 40(?) D = 870 km	JULY 6 U.S.C.G.S. 20.0S, 169.0E New Hebrides Islands H = 22 09 31.4 h = 47 km Mag 6 1/2 Alberni eP 22 22 33 Banff eP 22 21 47 Halifax eP' 22 28 38 c i 22 31 57 d Ottawa eP' 22 28 20 c Resolute eP 22 24 04 P' 22 28 00 e 22 38 59 Shawinigan Falls eP' 22 28 13 e 22 28 25 Victoria iP 22 22 34 c
	Resolute e 22 57 52 Shawinigan Falls eP _n 22 45 04.0 iS _n 22 46 00.6 Lg 22 46 29.1 D = 600 km	
	JULY 6 Resolute eP? 05 47 54	
	JULY 6 H = 13 58 21 Victoria eP ₁ 13 58 34.5 eS ₁ 13 58 45.7 D = 84 km	

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JULY 7	JULY 7	JULY 8
U. S. C. G. S.	H = 22 51 22	Resolute
5.7S, 149.7E	Penticton	eP 08 16 28?
New Britain	eP _n 22 51 49.8	
H = 13 10 43.8	eS _n 22 52 11.0	
h = 57 km	D = 174 km	
Mag 6 1/4		JULY 8
Halifax		U. S. C. G. S.
P' 13 29 56.5	JULY 7	20.1S, 169.8E
Ottawa	Penticton	Loyalty Islands
eP' 13 29 40	eP 23 00 16	H = 15 34 38.5
Shawinigan Falls	Victoria	h = 44 km
eP' 13 29 43	eP 23 00 03	Ottawa
		eP' 15 53 29
		Penticton
		eP 15 47 55
		Shawinigan Falls
		eP' 15 53 33
		Victoria
		eP 15 47 41
		e 15 53 18
JULY 7	JULY 8	JULY 8
U. S. C. G. S.	U. S. C. G. S.	H = 20 21 06
53.5N, 159.9E	20.0S, 168.8E	Penticton
Near east coast	Loyalty Islands	eP _n 20 21 42.5
of Kamchatka	H = 02 35 20.1	eS _n 20 22 12.2
H = 15 28 14.5	h = 52 km	D = 243 km
h = 20 km	Halifax	
Resolute	eP' 02 54 28	
eP 15 36 15	Penticton	
	eP 02 48 36	
	Shawinigan Falls	
	eP' 02 54 16	
	Victoria	
	eP 02 48 23	
JULY 7	JULY 8	JULY 8
H = 19 08 05	U. S. C. G. S.	20.2S, 169.0E
Penticton	20.6S, 169.1E	Loyalty Islands
eP _n 19 08 42.2	Loyalty Islands	H = 21 13 59.4
eS _n 19 09 12.9	region	h = 56 km
D = 252 km	H = 03 25 19.5	Halifax
	h = 25 km	i 21 36 32
	Shawinigan Falls	Penticton
	iP' 03 44 19 d	eP 21 27 17
		Shawinigan Falls
		eP' 21 33 00
		Victoria
		eP 21 27 03
JULY 7	JULY 8	
U. S. C. G. S.	H = 05 49 15	
20.1S, 169.2E	Alberni	
Loyalty Islands region	eP ₁ 05 49 25.0	
H = 22 19 34.2	eS ₁ 05 49 32.4	
h = 89 km	D = 60 km	
Mag 5	Victoria	
Halifax	eP ₁ 05 49 39.6	
eP' 22 38 39 d?	eS ₁ 05 49 59.2	
Penticton	D = 152 km	
eP 22 32 45		
Shawinigan Falls		
eP' 22 38 24 c		
Victoria		
eP 22 32 33 c		

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JULY 8

U. S. C. G. S.
20. 2S, 169. 0E
Loyalty Islands region
H = 21 48 46. 2
h = 68 km
Penticton
eP 22 02 00
Shawinigan Falls
eP' 22 07 39
Victoria
eP 22 01 54

JULY 8

H = 23 58 58
Alberni
eP₁ 23 59 07. 1
eS₁ 23 59 14. 3
D = 59 km
Victoria
eP₁ 23 59 23. 6
D = 162 km

JULY 9

U. S. C. G. S.
17. 0N, 88. 5W
British Honduras
H = 04 57 52. 7
h = 150 km
Penticton
eP 05 05 23
Shawinigan Falls
eP 05 04 01
Victoria
eP 05 05 34

JULY 9

U. S. C. G. S.
15. 0N, 87. 2W
Honduras
H = 06 32 52. 4
h = 165 km
Banff
eP 06 40 33

Ottawa

eP 06 39 06
Penticton
eP 06 40 43
Resolute
eP 06 42 45
Shawinigan Falls
eP 06 39 23
Victoria
eP 06 40 54

JULY 9

48°32'N, 122°25'W
Near Anacortes
Washington, U. S. A.
H = 07 44 49
Mag 2. 7
Alberni
iP_n 07 45 19. 6
eS_n 07 45 41. 9
D = 198 km
Penticton
iP 07 45 22. 6
iS_n 07 45 52. 9
D = 223 km
Victoria
iP₁ 07 45 00. 9 d
iS₁ 07 45 09. 5
D = 76 km

JULY 9

U. S. C. G. S.
28. 8N, 54. 7E
Iran
H = 08 05 45. 9
h = 25 km
Penticton
e 08 22 38

Resolute
eP 08 17 28
Shawinigan Falls
eP 08 18 50

JULY 9

Penticton
eP 14 01 24

JULY 9

U. S. C. G. S.
51. 7N, 176. 2E
Rat Islands
H = 16 46 02. 0
h = 33 km
Penticton
eP 16 53 34

JULY 10

Penticton
eP 00 36 40

JULY 10

U. S. C. G. S.
19. 2S, 68. 4W
Chile-Bolivia border
H = 03 49 56. 4
h = 117 km

Halifax
iP 04 00 22

Ottawa
eP 04 00 28

Penticton
eP 04 02 09

Shawinigan Falls
eP 04 00 35

Victoria
eP 04 02 16 d

JULY 10

Canadian Arctic
H = 05 06 11. 1
Mag 2. 4

Resolute
iP₁ 05 06 40. 5
iS₁ 05 07 02. 9
D = 184 km

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JULY 10

Banff
e 12 22 28
Penticton
eP 12 19 50
Victoria
eP 12 19 07

JULY 10

U. S. C. G. S.
20.7S, 179.5W
Fiji Islands region
H = 12 16 29.4
h = 564 km
Penticton
eP 12 28 23

JULY 10

U. S. C. G. S.
18.4N, 104.9W
Off coast of Mexico
H = 12 54 04.6
h = 20 km
Penticton
eP 13 00 42
Resolute
eP 13 03 48?
Shawinigan Falls
eP 13 01 31 d

JULY 10

U. S. C. G. S.
18.2N, 89.8W
Campeche Mexico
H = 14 18 13.7
h = 56 km
Banff
eP 14 25 30
Penticton
eP 14 24 42
Victoria
eP 14 25 48

JULY 10

Resolute
eP 18 39 32

JULY 10

H = 18 41 30
Penticton
iP₁ 18 41 56.0
iS₁ 18 42 16.2
D = 166 km

JULY 11

U. S. C. G. S.
43.4N, 149.0E
Off coast of
Hokkaido Japan
H = 01 20 57.8
h = 25 km

Penticton
eP 01 30 55
Resolute
eP 01 30 29

JULY 11

U. S. C. G. S.
27.3S, 177.1W
Kermadec Islands
H = 05 45 29.5
h = 58 km
Penticton
eP 05 58 38
Victoria
eP 05 58 26

JULY 11

U. S. C. G. S.
8.3N, 93.3E
Nicobar Islands
H = 09 31 57.2
h = 163 km
Penticton
eP' 09 50 28
Resolute
eP 09 45 17?
Victoria
eP' 09 50 26

JULY 11

H = 09 54 14
Alberni
eP₁ 09 54 26.4
eS₁ 09 54 35.9
D = 78 km

JULY 11

U. S. C. G. S.
21.5S, 175.7W
Tonga Islands
H = 16 26 44.1
h = 90 km
Penticton
eP 16 39 23

JULY 11

U. S. C. G. S.
6.7S, 125.8E
Banda Sea
H = 18 35 54.6
h = 579 km
Shawinigan Falls
eP' 18 54 22

JULY 11

H = 23 53 06
Penticton
eP_n 23 53 57.0
d = 364 km

JULY 12

U. S. C. G. S.
4.8N, 82.9W
South of Panama
H = 01 38 25.2
h = 44 km
Penticton
eP 01 47 49

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JULY 12

U. S. C. G. S.
3. 3N, 127. 9E
Molucca Passage
H = 04 47 29. 0
h = 92 km
Shawinigan Falls
eP' 05 06 27

JULY 13

U. S. C. G. S.
21. 3S, 175. 7W
Tonga Islands
H = 13 45 02. 4
h = 29 km
Victoria
eP 13 57 34

JULY 15

U. S. C. G. S.
48. 4N, 157. 6E
Off coast of Kamchatka
H = 05 43 06. 7
h = 17 km
Shawinigan Falls
eP 05 54 54

JULY 12

H = 07 56 43
Alberni
eP₁ 07 57 57. 1
eS₁ 07 58 08. 1
D = 90 km
Victoria
eP₁ 07 58 02. 3
eS₁ 07 58 15. 4
D = 107 km

JULY 13

U. S. C. G. S.
22. 8N, 122. 7E
Off coast of
Formosa
H = 21 44 38. 0
h = 100 km
Banff
eP 21 57 39
Shawinigan Falls
eP' 22 02 42
Victoria
eP 21 57 28

JULY 15

U. S. C. G. S.
6. 8S, 116. 9E
Java Sea
H = 13 55 26. 5
h = 565 km
Shawinigan Falls
eP' 14 13 54

JULY 12

Victoria
eP 08 42 25

JULY 14

H = 00 06 21
Victoria
eP₁ 00 06 28. 9
eS₁ 00 06 35. 1
D = 50 km

JULY 15

H = 20 46 31
Victoria
eP_n 20 47 05. 3
eS_n 20 47 32. 6
D = 224 km

JULY 12

Penticton
eP 09 15 07

JULY 14

H = 00 06 21
Victoria
eP₁ 00 06 28. 9
eS₁ 00 06 35. 1
D = 50 km

JULY 16

U. S. C. G. S.
58. 6N, 137. 2W
Southeastern Alaska
H = 00 47 53. 5
h = 44 km

JULY 12

U. S. C. G. S.
45. 2N, 151. 0E
Kurile Islands
H = 13 29 56. 6
h = 40 km
Penticton
eP 13 39 42
Resolute
eP 13 39 09?
Victoria
eP 13 39 31

JULY 15

U. S. C. G. S.
13. 1N, 120. 4E
Philippine Islands
H = 00 17 49. 5
h = 52 km
Shawinigan Falls
eP' 00 36 37

Resolute

eP 00 52 44?
Victoria
e 00 54 51

JULY 16

49°44'N, 124°55'W
Near Texada Island
H = 01 40 51
Mag 2. 8
Alberni
iP₁ 01 40 59. 7
D = 61 km

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Victoria

eP₁ 01 41 16.1
eS₁ 01 41 35.3
D = 158 km

JULY 16

Alberni

eP₁ 01 56 54.7
eS₁ 01 57 02.1
(aftershock of 01 40 51)

Victoria

eP₁ 01 58 28.3
eS₁ 01 58 35.9
(aftershock of 01 40 51)

JULY 16

U.S.C.G.S.

22.7S, 171.2E

Loyalty Islands

H = 14 01 38.7

h = 56 km

Mag 5 1/2

Victoria

eP 14 14 46

JULY 16

Halifax

eP 21 03 00.3

JULY 16

U.S.C.G.S.

49.3N, 155.1E

Kurile Islands

H = 21 08 45.6

h = 29 km

Banff

iP 21 18 05

Resolute

eP 21 17 24

Shawinigan Falls

eP 21 20 32 d

Victoria

eP 21 17 47

JULY 17

U.S.C.G.S.

16.7N, 97.7W

Oaxaca Mexico

H = 01 01 11.2

h = 74 km

Banff

iP 01 08 17

Halifax

eP 01 08 44

Ottawa

eP 01 07 51

Penticton

eP 01 08 18

Resolute

eP 01 10 58

Shawinigan Falls

eP 01 08 10

Victoria

eP 01 08 25 c

JULY 17

U.S.C.G.S.

17.0N, 97.8W

Oaxaca Mexico

H = 03 30 54.7

h = 77 km

Banff

eP 03 37 58

Shawinigan Falls

eP 03 37 53

Victoria

eP 03 38 06

JULY 17

U.S.C.G.S.

27.1N, 54.5E

Iran

H = 05 13 20.3

h = 59 km

Shawinigan Falls

eP 05 26 31

JULY 17

U.S.C.G.S.

16.5N, 105.0W

Off coast of Mexico

H = 09 08 02.1

h = 60 km

Ottawa

eP 09 15 20

Shawinigan Falls

eP 09 15 41d

JULY 17

U.S.C.G.S.

37.6S, 73.3W

Near coast of

Central Chile

H = 09 17 53.4

h = 100 km

Shawinigan Falls

eP 09 30 29

JULY 17

U.S.C.G.S.

41.2N, 72.4E

Kirghiz, S.S.R.

H = 14 53 28.4

h = 67 km

Shawinigan Falls

eP 15 06 12 d

JULY 17

U.S.C.G.S.

35.7N, 141.2E

Near coast of

Honshu Japan

H = 16 20 22.6

h = 75 km

Banff

eP 16 31 27

Resolute

iP 16 30 47

eS 16 39 22

S_CS? 16 40 40?

Victoria

eP 16 31 12

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JULY 18	JULY 18	JULY 18
U. S. C. G. S.	Resolute	Resolute
29.4N, 131.6E	eP 14 54 05	eP? 16 56 01
Ryukyu Islands		
H = 14 03 36.5		
h = 21 km	JULY 18	JULY 18
Mag 6 1/2	Resolute	U. S. C. G. S.
Banff	eP 15 27 34	29.5N, 131.8E
iP 14 15 48 d		Ryukyu Islands
Halifax		H = 16 48 34.8
eP 14 17 46.5	JULY 18	h = 60 km
Ottawa	Resolute	Resolute
eP 14 17 27	eP? 15 38 54?	eP 16 59 57
Penticton		
eP 14 15 42	JULY 18	JULY 18
Resolute	U. S. C. G. S.	Resolute
iP 14 14 59 d	29.5N, 131.7E	eP? 18 28 05
PPP 14 19 26?	Ryukyu Islands	
eS 14 24 16	H = 15 36 45.4	
Shawinigan Falls	h = 25 km	JULY 18
eP 14 17 26 d	Resolute	U. S. C. G. S.
Victoria	eP 15 48 10	29.7N, 131.4E
eP 14 15 34		Ryukyu Islands
		H = 18 33 42.4
		h = 84 km
JULY 18	JULY 18	Resolute
U. S. C. G. S.	U. S. C. G. S.	eP 18 44 57
29.9N, 131.2E	29.5N, 131.2E	
Ryukyu Islands	Ryukyu Islands	JULY 18
H = 14 34 07.3	H = 16 20 08.8	U. S. C. G. S.
h = 72 km	h = 62 km	29.3N, 131.6E
Banff	Resolute	Ryukyu Islands
iP 14 46 11 d	iP 16 31 27 d	H = 19 29 04.8
Penticton		h = 60 km
eP 14 46 06	JULY 18	Resolute
Resolute	U. S. C. G. S.	eP 19 40 27
iP 14 45 23 d	28.0S, 66.4W	? 19 41 19
Shawinigan Falls	Argentina	e 19 44 00
eP 14 47 58	H = 16 22 48.9	e 19 45 09
Victoria	h = 80 km	
eP 14 45 57 d	Shawinigan Falls	
	eP 16 34 26	

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- JULY 18
Resolute
eP? 20 03 48
- JULY 18
Resolute
eP? 22 07 57
- JULY 18
U. S. C. G. S.
29.7N, 131.4E
Ryukyu Islands
H = 23 42 36.5
h = 39 km
Resolute
eP 23 53 58 d
- JULY 19
Canadian Arctic
H = 02 59 29.2
h = 33 km
Mag 1.9
Resolute
eP_n 02 59 56.0
iP₁ 03 00 01.5
iS_n 03 00 20.3
iS₁ 03 00 29.8
D = 232 km
- JULY 19
U. S. C. G. S.
58.8S, 25.3W
Sandwich Islands
H = 03 50 42.0
h = 39 km
Resolute
eP' 04 10 04
e 04 13 43
- JULY 19
U. S. C. G. S.
29.2N, 131.3E
Ryukyu Islands
H = 05 29 57.6
h = 60 km
Resolute
eP 05 41 18
- JULY 19
U. S. C. G. S.
29.6N, 131.7E
Ryukyu Islands
H = 06 33 18.1
h = 27 km
Resolute
eP 06 44 40
- JULY 19
Resolute
eP? 06 49 58
- JULY 19
Resolute
eP 07 55 14
- JULY 19
Resolute
eP? 08 02 25
- JULY 19
U. S. C. G. S.
37.5N, 142.0E
Off coast of
Honshu Japan
H = 09 19 24.2
h = 25 km
Resolute
eP? 09 29 46
- JULY 19
U. S. C. G. S.
29.8N, 131.5E
Ryukyu Islands
H = 10 35 41.4
h = 20 km
Resolute
eP 10 47 02
i 10 47 06
- JULY 19
U. S. C. G. S.
29.6N, 131.5E
Ryukyu Islands
H = 11 58 43.7
h = 31 km
Resolute
eP 12 10 06 d?
- JULY 19
Resolute
eP? 12 16 48
- JULY 19
U. S. C. G. S.
51.7N, 173.4W
Andreanof Islands
H = 22 36 36.5
h = 42 km
Ottawa
eP 22 46 42

DOMINION OBSERVATORIES

Shawinigan Falls eP 22 46 47	JULY 20 U. S. C. G. S. 31. 8S, 177. 2W Kermadec Islands H = 19 58 03. 3 h = 44 km Halifax eP' 20 17 07 c	JULY 22 U. S. C. G. S. 39. 2N, 70. 0E Kirghiz, S. S. R. H = 20 53 30. 0 h = 222 km Shawinigan Falls eP 21 06 04 d i 21 06 11
JULY 19 U. S. C. G. S. 37. 7N, 20. 2E Near coast of Greece H = 23 00 56. 7 h = 37 km Halifax eP 23 11 08. 5 Ottawa eP 23 11 57 Shawinigan Falls eP 23 11 41	JULY 21 Halifax eP 04 37 48. 5	JULY 23 U. S. C. G. S. 18. 5S, 168. 2E New Hebrides Islands H = 14 03 39. 8 h = 44 km Mag 5 3/4 Shawinigan Falls eP' 14 22 34
JULY 20 U. S. C. G. S. 18. 7N, 103. 0W Off coast of Mexico H = 08 44 21. 1 h = 14 km Shawinigan Falls eP 08 51 34	JULY 21 U. S. C. G. S. 29. 6N, 131. 6E Ryukyu Islands H = 18 50 50. 3 h = 16 km Resolute eP 19 02 13?	JULY 23 Resolute eP? 14 46 06
JULY 20 U. S. C. G. S. 28. 4N, 133. 6E Ryukyu Islands H = 09 02 31. 9 h = 25 km Resolute eP? 09 14 01	JULY 21 U. S. C. G. S. 29. 6N, 131. 6E Ryukyu Islands H = 22 39 53. 2 h = 32 km Resolute eP 22 51 15?	JULY 23 U. S. C. G. S. 6. 9N, 123. 5W Pacific Ocean H = 14 38 03. 5 h = 89 km Mag 5 3/4 Banff eP 14 46 11 Halifax eP 14 48 29 Ottawa eP 14 47 35 Resolute eP 14 49 03 Shawinigan Falls eP 14 47 52 Victoria eP 14 45 43
JULY 20 U. S. C. G. S. 20. 7S, 64. 7W Bolivia H = 13 18 04. 2 h = 128 km Shawinigan Falls eP 13 28 55 d	JULY 22 Canadian Arctic H = 13 01 09 Mag 2. 1 Resolute iP ₁ 13 01 24 iS ₁ 13 01 35. 4 D = 93. 5 km	

SEISMOLOGICAL BULLETIN - 1961

JULY 23

U. S. C. G. S.
 18. 5S, 168. 0E
 New Hebrides Islands
 H = 15 30 22. 8
 h = 107 km
 Shawinigan Falls
 eP' 15 49 10
 Victoria
 eP 15 43 12

JULY 23

U. S. C. G. S.
 18. 4S, 167. 8E
 New Hebrides Islands
 H = 23 46 17. 2
 h = 25 km
 Penticton
 eP 23 59 30
 Shawinigan Falls
 eP' 24 05 13

JULY 24

U. S. C. G. S.
 0, 124. 1E
 Celebes Islands
 H = 08 48 13. 8
 h = 159 km
 Ottawa
 eP' 09 07 12
 e 09 10 30
 Shawinigan Falls
 eP' 09 07 13
 e 09 10 30

JULY 23

U. S. C. G. S.
 18. 3S, 168. 3E
 New Hebrides Islands
 H = 21 51 07. 5
 h = 44 km
 Banff
 eP 22 04 38
 Halifax
 eP' 22 10 18 d
 Ottawa
 eP' 22 09 57
 Penticton
 eP 22 04 18
 Resolute
 eP 22 05 34
 iP' 22 10 02
 Shawinigan Falls
 eP' 22 10 01
 Victoria
 eP 22 04 09 d

JULY 24

U. S. C. G. S.
 21. 1S, 179. 3W
 Fiji Islands
 H = 01 30 56. 5
 h = 642 km
 Penticton
 eP 01 42 45

JULY 24

U. S. C. G. S.
 50. 6N, 128. 9W
 Vancouver Island
 H = 10 39 23. 7
 h = 25 km
 Mag 3. 9
 Banff
 eP 10 41 35
 Penticton
 eP 10 41 00
 Victoria
 eP 10 40 31

JULY 24

U. S. C. G. S.
 2. 3S, 79. 6W
 Ecuador
 H = 01 53 26. 7
 h = 25 km
 Ottawa
 eP 02 02 02
 Penticton
 eP 02 04 49
 Shawinigan Falls
 eP 02 02 14 d

JULY 25

49. 6N, 114. 4W
 Crowsnest Pass Area
 Alberta
 H = 02 33 21
 Mag 3. 2
 Banff
 eP_n 02 33 47. 3
 eS_n 02 34 08. 6
 D = 204 km
 Penticton
 eP_n 02 34 09. 9
 eS_n 02 34 51. 9
 D = 389 km

JULY 23

U. S. C. G. S.
 18. 4S, 168. 3E
 New Hebrides Islands
 H = 22 01 55. 3
 h = 37 km
 Resolute
 eP' 22 20 45?
 Shawinigan Falls
 eP' 22 20 51

JULY 24

Penticton
 eP 06 56 49
 Victoria
 eP 06 56 21

DOMINION OBSERVATORIES

JULY 25	JULY 25	JULY 27
U. S. C. G. S.	Shawinigan Falls	Resolute
8. 8S, 71. 3W	eP 21 58 20 d	eP? 02 41 23
Brazil		
H = 02 48 13. 5		
h = 642 km		
Halifax	JULY 25	JULY 27
iP 02 56 43 d	Canadian Arctic	U. S. C. G. S.
Ottawa	H = 22 35 29	18. 2S, 69. 8W
eP 02 56 45	Mag 1. 7	Bolivia-Chile border
Penticton	Resolute	H = 06 09 23. 5
eP 02 58 38 d	iP ₁ 22 35 45	h = 31 km
Resolute	iS ₁ 22 35 55	Penticton
iP 02 59 47	D = 82 km	eP 06 21 34
Shawinigan Falls		Shawinigan Falls
iP 02 56 43 d		eP 06 20 02
Victoria	JULY 25	
eP 02 58 47 d	H = 22 38 32	
	Penticton	JULY 27
	eP ₁ 22 38 55. 0	U. S. C. G. S.
	eS ₁ 22 39 12. 8	35. 2N, 25. 4E
	D = 146 km	Aegean Sea
JULY 25		H = 18 35 48. 5
U. S. C. G. S.	JULY 26	h = 65 km
21. 0N, 123. 6E	U. S. C. G. S.	Shawinigan Falls
Off coast of	35. 7S, 104. 5W	eP 18 47 00
Formosa	Southeast of	
H = 12 00 59. 6	Easter Island	
h = 61 km	H = 01 34 18. 2	JULY 28
Resolute	h = 24 km	U. S. C. G. S.
eP 12 13 06?	Ottawa	27. 0N, 126. 6E
	eP 01 46 52	Ryukyu Islands
JULY 25	Shawinigan Falls	H = 00 34 18. 3
U. S. C. G. S.	eP 01 47 02 c	h = 136 km
0. 0, 124. 7E		Penticton
Celebes Islands	JULY 26	eP 00 46 34
H = 18 39 24. 1	U. S. C. G. S.	Resolute
h = 43 km	37. 1S, 177. 3E	iP 00 45 46
Ottawa	New Zealand	Victoria
eP' 18 58 36	H = 09 18 59. 9	eP 00 46 27
Penticton	h = 100 km	
eP 18 52 02	Ottawa	JULY 28
Shawinigan Falls	eP' 09 37 50 c	U. S. C. G. S.
eP' 18 58 37	Shawinigan Falls	2. 2S, 77. 1W
Victoria	eP' 09 37 55 c	Ecuador
eP 18 51 52		H = 01 05 30. 0
		h = 136 km
		Mag 6 1/4
		Banff
		eP 01 15 39

SEISMOLOGICAL BULLETIN - 1961

Halifax iP 01 13 58	JULY 28 Ottawa eP 10 45 29 d	JULY 28 H = 22 48 02.8 Penticton eP _n 22 48 33.0 eS _n 22 48 56.0 D = 188 km
Ottawa eP 01 13 52	JULY 28 45.9N, 122.6W Northeast of Portland, Oregon, U. S. A. H = 14 52 54 Mag 3.1	JULY 29 U. S. C. G. S. 16.6S, 174.1E Fiji Islands H = 10 31 52.5 h = 132 km
Penticton eP 01 15 44	Banff e 14 56 31.0	Penticton eP 10 44 37
Resolute iP 01 17 11	Penticton eP _n 14 53 56.1 eS _n 14 54 00.0 D = 442 km	
Shawinigan Falls eP 01 14 01	Victoria eP _n 14 53 37.0 eS _n 14 54 13.3 D = 296 km	JULY 29 Penticton eP 13 01 22
Victoria eP 01 15 54 c e 01 24 27		
JULY 28 U. S. C. G. S. 18.6S, 167.7E New Hebrides Islands H = 06 11 38.7 h = 41 km Mag 5 3/4	JULY 28 U. S. C. G. S. 43.4N, 146.1E Kurile Islands H = 15 19 40.0 h = 34 km	JULY 29 U. S. C. G. S. 23.9S, 176.1W Tonga Islands region H = 16 27 19.0 h = 23 km Mag 5 1/2
Ottawa eP' 06 30 30	Banff eP 15 30 11	Penticton eP 16 38 37
Shawinigan Falls eP' 06 30 36	Ottawa eP 15 32 09	
JULY 28 U. S. C. G. S. 20.0N, 109.2W Pacific Ocean H = 10 13 51.1 h = 42 km Mag 5 1/2	Penticton eP 15 29 53	JULY 29 Banff eP 21 23 07
Banff eP 10 20 10	Resolute iP 15 29 14	Penticton eP 21 23 09
Halifax eP 10 22 02	Victoria eP 15 29 43	Victoria eP 21 23 33
Ottawa eP 10 21 03	JULY 28 Penticton eP 18 40 51	
Penticton eP 10 20 01		JULY 29 Penticton eP 21 47 35
Resolute eP 10 23 26? eS 10 31 03?		
Shawinigan Falls eP 10 21 27		
Victoria eP 10 20 03		

DOMINION OBSERVATORIES

JULY 30
Penticton
eP 00 25 36

JULY 30
50.8N, 119.9W
Near Kamloops
H = 01 57 52
Mag 2.1
Penticton
eP_n 01 58 17.1
eS_n 01 58 36.6
D = 160 km

JULY 31
Penticton
eP 20 03 06

JULY 31
H = 23 29 49.8
Penticton
eP₁ 23 30 13.1
eS₁ 23 30 31.8
D = 145 km

AUGUST 1
U. S. C. G. S.
14.2S, 166.7E
New Hebrides Islands
H = 01 17 44.7
h = 26 km
Penticton
eP 01 30 49

AUGUST 1
U. S. C. G. S.
15.5N, 46.6W
North Atlantic Ocean
H = 03 16 11.2
h = 48 km
Banff
eP 03 26 48
Penticton
eP 03 27 06

AUGUST 1
U. S. C. G. S.
9.8S, 160.5E
Solomon Islands
H = 05 39 53.2
h = 50 km
Mag 6 1/2
Banff
eP 05 53 08
Halifax
eP' 05 58 59.5
Penticton
iP 05 52 54
Resolute
eP 05 53 52?
Victoria
eP 05 52 44

AUGUST 1
U. S. C. G. S.
56.8S, 25.1W
Sandwich Islands
H = 07 21 12.3
h = 44 km
Banff
e 07 43 42
Penticton
eP' 07 40 23
Victoria
eP' 07 40 28
e 07 42 55
e 07 43 51

AUGUST 1
Penticton
eP 09 21 35

AUGUST 1
U. S. C. G. S.
56.6S, 24.0W
Sandwich Islands
H = 09 24 22.4
h = 61 km
Penticton
eP' 09 43 32

AUGUST 1
U. S. C. G. S.
57.1S, 26.1W
Sandwich Islands
H = 09 34 40.7
h = 31 km
Banff
eP' 09 53 49
Penticton
eP' 09 53 59
Victoria
e 09 56 17
e 09 57 18

AUGUST 1
Penticton
eP 10 18 53

AUGUST 1
U. S. C. G. S.
19.1N, 104.1W
Near coast of Mexico
H = 14 30 37.3
h = 58 km
Penticton
eP 14 37 07

AUGUST 1
Penticton
eP 15 01 37

AUGUST 1
Penticton
eP 15 13 11

AUGUST 2
U. S. C. G. S.
56.7S, 24.8W
Sandwich Islands
H = 02 31 24.8
h = 25 km
Penticton
eP' 02 50 38
Resolute
e 02 54 40?
Victoria
e 02 54 04

SEISMOLOGICAL BULLETIN - 1961

<p>AUGUST 2 Penticton eP 09 59 01</p>	<p>AUGUST 2 Penticton eP 15 59 04</p>	<p>AUGUST 3 Banff eP 01 35 25</p>
<p>AUGUST 2 U. S. C. G. S. 44. 5N, 148. 7E Kurile Islands H = 12 12 03. 8 h = 74 km Banff eP 12 22 07 Penticton eP 12 21 58 Resolute iP 12 21 22 Victoria eP 12 21 47</p>	<p>AUGUST 2 Penticton eP 17 34 00</p> <p>AUGUST 2 Penticton eP 19 00 34</p> <p>AUGUST 2 H = 19 06 23 Penticton eP₁ 19 06 47. 0 eS₁ 19 07 05. 1 D = 148 km</p>	<p>AUGUST 3 H = 02 16 48 Penticton iP_n 02 17 11. 0 iS_n 02 17 32. 3 D = 174 km Victoria eP_n 02 17 12. 1 D = 182 km</p>
<p>AUGUST 2 Penticton eP 13 35 26</p>	<p>AUGUST 2 U. S. C. G. S. 12. 6S, 165. 5E New Hebrides Islands H = 20 14 50. 2 h = 129 km Penticton eP 20 27 40</p>	<p>AUGUST 3 U. S. C. G. S. 18. 2N, 66. 2W Puerto Rico H = 03 08 02. 3 h = 141 km Banff eP 03 16 52 d Halifax eP 03 13 30. 7 d Ottawa eP 03 13 45 d Penticton iP 03 17 06 d Resolute iP 03 17 48 Victoria eP 03 17 22</p>
<p>AUGUST 2 U. S. C. G. S. 51. 9N, 157. 8E Near coast of Kamchatka H = 14 32 27. 9 h = 50 km Penticton eP 14 41 18</p>	<p>AUGUST 2 H = 21 54 32 Penticton eP₁ 21 54 58. 0 eS₁ 21 55 17. 5 D = 160 km</p> <p>AUGUST 2 Penticton eP 23 14 51</p>	<p>AUGUST 3 Penticton eP 06 20 05</p>
		<p>AUGUST 3 U. S. C. G. S. 52. 2N, 174. 0E Near Islands H = 14 24 58. 2 h = 41 km Penticton eP 14 32 38</p>

DOMINION OBSERVATORIES

AUGUST 3 H = 19 42 32 Penticton eP _n 19 43 03.3 eS _n 19 43 27.7 D = 200 km	Resolute eP 23 46 19 Victoria eP 23 46 03	AUGUST 4 Banff eP 14 34 05 Penticton eP 14 34 14 Victoria eP 14 33 28
AUGUST 3 H = 21 31 08 Penticton iP ₁ 21 31 31.6 eS ₁ 21 31 49.4 D = 146 km Victoria eP _n 21 31 50.5 D = 292 km	AUGUST 4 Penticton eP 00 01 52	AUGUST 4 Penticton eP 15 02 37 Victoria eP 15 01 55
AUGUST 3 H = 21 43 30 Penticton eP _n 21 44 21.0 eS _n 21 44 55.0 D = 278 km	AUGUST 4 U. S. C. G. S. 42.7N, 144.8E Hokkaido Japan H = 07 17 43.8 h = 18 km Penticton eP 07 28 08 Resolute eP 07 27 27	AUGUST 4 U. S. C. G. S. 39.0N, 117.7W Western Nevada H = 16 56 09.1 h = 12 km Penticton e 17 00 34
AUGUST 3 H = 21 59 09 Banff iP ₁ 21 59 15.6 iS ₁ 21 59 20.6 D = 41 km	AUGUST 4 U. S. C. G. S. 51.4N, 177.4W Andreanof Islands H = 10 36 25.7 h = 20 km Penticton iP 10 43 30 Victoria eP 10 43 15	AUGUST 4 U. S. C. G. S. 34.8N, 38.7W North Atlantic Ocean H = 18 35 20.8 h = 26 km Halifax iP 18 40 12.5 d Ottawa eP 18 41 31 Resolute eP 18 44 08? eS 18 51 12? Shawinigan Falls eP 18 41 15
AUGUST 3 Ottawa eP 23 43 17	AUGUST 4 U. S. C. G. S. 15.2N, 95.3W Near coast of Mexico H = 11 24 12.8 h = 24 km Ottawa eP 11 30 58 Penticton eP 11 31 41 Shawinigan Falls eP 11 31 17	AUGUST 4 U. S. C. G. S. 45.3N, 151.1E Kurile Islands H = 22 52 49.2 h = 20 km Banff eP 23 02 46
AUGUST 3 U. S. C. G. S. 12.1N, 143.8E Mariana Islands H = 23 33 37.7 h = 20 km Banff eP 23 46 25 Penticton eP 23 46 15		

SEISMOLOGICAL BULLETIN - 1961

Ottawa
eP 23 05 02
Penticton
eP 23 02 38
Resolute
eP 23 02 06?
eS 23 09 30?
Shawinigan Falls
eP 23 05 03
Victoria
eP 23 02 25

AUGUST 4
Penticton
eP 23 31 55

AUGUST 5
U. S. C. G. S.
13.7S, 166.0E
New Hebrides Islands
H = 01 07 49.1
h = 40 km
Penticton
eP 01 20 51

AUGUST 5
U. S. C. G. S.
49.4N, 129.0W
Near coast of
Vancouver Island
H = 01 33 12.2
h = 15 km
Penticton
eP 01 34 44
Victoria
eP 01 34 10

AUGUST 5
U. S. C. G. S.
60.5N, 148.6W
Alaska
H = 02 26 22.4
h = 105 km
Banff
eP 02 30 57

Halifax
eP 02 35 12 d
Ottawa
eP 02 34 22 d
Penticton
iP 02 30 51
Resolute
eP 02 31 26
eS 02 35 39?
Shawinigan Falls
eP 02 34 27
Victoria
eP 02 30 38

AUGUST 5
U. S. C. G. S.
50.5N, 160.5E
Off coast of
Kamchatka
H = 06 10 16.3
h = 25 km
Penticton
eP 06 19 02

AUGUST 5
U. S. C. G. S.
18.8S, 68.2W
Near Chile-Bolivia
border
H = 09 27 45.5
h = 113 km
Banff
eP 09 39 53 d
Halifax
iP 09 38 10.2 d
Ottawa
eP 09 38 15
e 09 38 43
Penticton
iP 09 39 52
Shawinigan Falls
eP 09 38 22?
i 09 38 51
Victoria
eP 09 40 03 d

AUGUST 5
Penticton
eP 11 03 13

AUGUST 5
Canadian Arctic
H = 12 55 50.5
h = 27 km
Mag 3.1
Resolute
iP_n 12 56 26.2
iP₁ 12 56 31.1
iS_n 12 56 52
iS₁ 12 57 02
D = 252 km

AUGUST 6
Penticton
eP 23 21 24

AUGUST 6
Penticton
eP 23 57 29

AUGUST 7
U. S. C. G. S.
42.2N, 142.1E
Hokkaido Japan
H = 04 02 09.4
h = 24 km
Penticton
eP 04 12 42
Resolute
iP 04 11 59

AUGUST 7
U. S. C. G. S.
28.1S, 176.5W
Kermadec Islands
H = 12 22 23.3
h = 39 km
Penticton
eP 12 35 19
Victoria
eP 12 35 21

DOMINION OBSERVATORIES

AUGUST 7

H = 16 30 20
 Penticton
 eP_n 16 30 58.6
 eS_n 16 31 30.6
 D = 262 km

AUGUST 7

U. S. C. G. S.
 27.5S, 177.1W
 Kermadec Islands
 H = 16 57 50.0
 h = 60 km
 Penticton
 eP 17 10 59

AUGUST 7

Victoria
 eP 22 40 55

AUGUST 8

Penticton
 eP 01 50 25

AUGUST 8

U. S. C. G. S.
 51.9N, 176.3W
 Andreanof Islands
 H = 05 36 28.9
 h = 57 km
 Banff
 eP 05 43 34
 Penticton
 iP 05 43 20
 Victoria
 eP 05 43 04

AUGUST 8

Penticton
 eP 05 59 59

AUGUST 8

U. S. C. G. S.
 24.5S, 116.2W
 West of Easter Island
 H = 07 49 55.3
 h = 38 km
 Penticton
 eP 08 01 28

AUGUST 8

U. S. C. G. S.
 50.9N, 170.7W
 Fox Islands
 H = 12 18 18.9
 h = 24 km
 Mag 6
 Banff
 eP 12 25 06 d
 Halifax
 iP 12 29 05.5 d
 Ottawa
 eP 12 28 21
 Penticton
 iP 12 24 50
 Resolute
 iP 12 25 39
 PP 12 27 08
 eS 12 31 24
 Shawinigan Falls
 eP 12 28 29
 Victoria
 eP 12 24 33 d

AUGUST 8

Penticton
 eP 12 55 51

AUGUST 8

U. S. C. G. S.
 51.3N, 170.5W
 Fox Islands
 H = 13 37 53.0
 h = 39 km
 Penticton
 eP 13 44 20

AUGUST 8

H = 18 23 02
 Penticton
 eP₁ 18 23 28.0
 eS₁ 18 23 47.5
 D = 160 km

AUGUST 8

Penticton
 eP 23 50 03

AUGUST 8

U. S. C. G. S.
 50.9N, 170.5W
 Fox Islands
 H = 23 49 11.9
 h = 25 km
 Penticton
 eP 23 55 43

AUGUST 9

U. S. C. G. S.
 19.1S, 168.7E
 New Hebrides Islands
 H = 16 02 36.1
 h = 69 km
 Halifax
 iP' 16 21 40.5(c)
 Ottawa
 eP' 16 21 23 c
 Penticton
 iP 16 15 45 c
 Shawinigan Falls
 iP' 16 21 27 c
 Victoria
 iP 16 15 34 c

AUGUST 9

H = 19 26 37.5
 Penticton
 iP₁ 19 26 56.5
 iS₁ 19 27 12.9
 D = 134 km

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AUGUST 9

H = 22 21 41

Penticton

eP₁ 22 22 06.9eS₁ 22 22 26.4

D = 160 km

AUGUST 9

Penticton

eP 23 48 31

AUGUST 10

U. S. C. G. S.

58.5N, 155.1W

Alaska

H = 00 58 38.9

h = 68 km

Penticton

eP 01 03 32

AUGUST 10

Penticton

eP 05 46 55

AUGUST 10

U. S. C. G. S.

20.8S, 178.0W

Fiji Islands

H = 06 37 04.7

h = 377 km

Penticton

eP 06 49 13

AUGUST 10

U. S. C. G. S.

20.1S, 174.5W

Tonga Islands

H = 07 32 05.3

h = 100 km

Penticton

eP 07 44 33

AUGUST 10

U. S. C. G. S.

37.2N, 136.9E

Near coast of

Honshu, Japan

H = 12 03 21.8

h = 51 km

Penticton

eP 12 14 34

Victoria

eP 12 14 23

AUGUST 10

U. S. C. G. S.

43.3N, 144.9E

Hokkaido Japan

H = 12 05 21.4

h = 25 km

Banff

eP 12 15 51

Resolute

iP 12 15 01

Shawinigan Falls

eP 12 17 56

AUGUST 10

U. S. C. G. S.

9.6S, 159.7E

Solomon Islands

H = 17 22 31.6

h = 44 km

Penticton

eP 17 35 29

AUGUST 10

Penticton

eP 18 50 45

AUGUST 10

H = 23 01 41

Penticton

eP₁ 23 02 07.1eS₁ 23 02 27.3

D = 165 km

AUGUST 11

U. S. C. G. S.

56.1N, 164.3E

Kamchatka

H = 00 43 29.6

h = 27 km

Banff

eP 00 51 28

Penticton

eP 00 51 39

Shawinigan Falls

eP 00 54 24

Victoria

eP 00 51 21

AUGUST 11

Penticton

eP 04 11 13

AUGUST 11

U. S. C. G. S.

32.5N, 131.3E

Kyushu Japan

H = 04 27 23.3

h = 25 km

Penticton

eP 04 39 14

AUGUST 11

U. S. C. G. S.

32.6N, 131.4E

Kyushu, Japan

H = 06 08 18.2

h = 25 km

Penticton

eP 06 20 10

Victoria

eP 06 20 01

AUGUST 11

U. S. C. G. S.

51.7N, 176.9W

Andreanof Islands

H = 06 55 54.5

Penticton

eP 07 02 50

DOMINION OBSERVATORIES

AUGUST 11
Penticton
eP 08 04 12

AUGUST 11
Penticton
eP 10 05 32

AUGUST 11
U. S. C. G. S.
18.5S, 168.2E
New Hebrides Islands
H = 10 24 58.9
Penticton
eP 10 38 09
Shawinigan Falls
eP' 10 43 54
Victoria
eP 10 38 01

AUGUST 11
U. S. C. G. S.
0.2N, 124.0E
Celebes Islands
H = 11 04 39.1
h = 143 km
Banff
eP' 11 22 53
Penticton
eP 11 18 40
e 11 22 50
Shawinigan Falls
eP' 11 23 37
Victoria
eP' 11 22 47

AUGUST 11
U. S. C. G. S.
42.9N, 145.1E
Hokkaido Japan
H = 15 51 35.4
h = 71 km
Mag 7
Banff
eP 16 01 58 c

Halifax
iP 16 04 26 c
Ottawa
iP 16 04 04 c
Penticton
iP 16 01 51 c
Resolute
iP 16 01 10
eS 16 08 52
Shawinigan Falls
iP 16 04 05 c
Victoria
iP 16 01 40 c

AUGUST 11
Penticton
eP 19 23 19

AUGUST 11
U. S. C. G. S.
41.5N, 141.9E
Off coast of
Honshu, Japan
H = 23 11 47.9
h = 122 km
Penticton
eP 23 22 16
Resolute
eP 23 21 32

AUGUST 11
U. S. C. G. S.
42.8N, 145.1E
Hokkaido Japan
H = 23 33 51.9
h = 72 km
Ottawa
eP 23 46 21
Penticton
iP 23 44 06
Resolute
eP 23 43 27
Shawinigan Falls
eP 23 46 24 c
Victoria
eP 23 43 57 d

AUGUST 12
Penticton
eP 03 22 55

AUGUST 12
Shawinigan Falls
eP 13 43 03?

AUGUST 12
Victoria
eP 14 02 39

AUGUST 12
Penticton
eP 15 54 08

AUGUST 12
Penticton
eP 17 26 09

AUGUST 12
Penticton
eP 19 05 34

AUGUST 12
Penticton
eP 22 07 12

AUGUST 12
Penticton
eP 23 10 02

AUGUST 13
Penticton
iP 00 16 43

SEISMOLOGICAL BULLETIN - 1961

AUGUST 13

U. S. C. G. S.
25. 3N, 121. 5E
Near coast of Formosa
H = 06 01 02. 0
h = 25 km
Banff
eP 06 13 57
Penticton
eP 06 13 52
Victoria
eP 06 13 45

AUGUST 13

Penticton
eP 18 19 11

AUGUST 13

U. S. C. G. S.
18. 7S, 65. 6W
Bolivia
H = 18 22 30. 5
h = 120 km
Penticton
eP 18 34 43

AUGUST 14

U. S. C. G. S.
3. 4S, 81. 3W
Near coast of
Peru
H = 01 56 56. 2
h = 35 km
Penticton
eP 02 07 16

AUGUST 14

Penticton
eP 12 01 31

AUGUST 14

U. S. C. G. S.
57. 6N, 158. 7W
Alaska
H = 13 46 05. 1
h = 93 km
Penticton
iP 13 51 19

AUGUST 14

U. S. C. G. S.
24. 2S, 175. 7W
Tonga Islands
H = 18 50 50. 3
h = 21 km
Mag 5 1/2
Banff
eP 19 03 58
Penticton

iP 19 03 43 d
e 19 12 39
Victoria
eP 19 03 31

AUGUST 14

U. S. C. G. S.
31. 8N, 131. 2E
Off coast of Japan
H = 22 04 59. 0
h = 14 km
Penticton
eP 22 16 56
Resolute
eP 22 16 10

AUGUST 14

H = 22 52 40
Penticton
eP_n 22 53 09. 3
eS_n 22 53 32. 5
D = 190 km

AUGUST 14

U. S. C. G. S.
20. 3S, 169. 4E
New Hebrides Islands
H = 23 28 46. 5
h = 97 km
Mag 6
Halifax
iP' 23 47 50. 5
Ottawa
eP' 23 47 34
Penticton
iP 23 41 56
e 23 56 08
Shawinigan Falls
eP' 23 47 37
Victoria
iP 23 41 45 d

AUGUST 15

Penticton
eP 08 59 49

AUGUST 15

61°N±1°, 135°W±1°
Canadian Arctic
H = 12 26 09
Mag 5. 3
Penticton
eP 12 29 21
Resolute
iP_n 12 31 09 d
eS_n 12 35 04
Lg 12 37 09
D = 2500 km
Victoria
e 12 32 44

AUGUST 15

U. S. C. G. S.
47. 6N, 155. 3E
Kurile Islands
H = 15 35 31. 0
h = 34 km
Penticton
eP 15 44 51

DOMINION OBSERVATORIES

AUGUST 15

H = 19 07 14
 Penticton
 eP_n- 19 07 44.8
 eS_n 19 08 09.3
 D = 200 km

AUGUST 15

U. S. C. G. S.
 32. 8N, 142. 4E
 South of Honshu,
 Japan
 H = 19 03 55.7
 h = 39 km

Banff
 eP 19 15 22
 Ottawa
 eP 19 17 16
 Penticton
 iP 19 15 10
 Resolute
 iP 19 14 44
 Shawinigan Falls
 eP 19 17 17
 Victoria
 eP 19 14 59

AUGUST 16

Canadian Arctic
 H = 07 51 45
 Mag 3.2
 Resolute
 P_n 07 52 28.5
 S_n 07 53 00.5
 L_g 07 53 13
 D = 312 km

AUGUST 16

U. S. C. G. S.
 32. 2N, 142. 1E
 South of Honshu,
 Japan
 H = 08 57 36.9
 h = 32 km
 Penticton
 eP 09 08 56

AUGUST 16

Penticton
 eP 11 54 09

AUGUST 16

Penticton
 eP 15 51 35

AUGUST 16

Penticton
 eP 17 27 26

AUGUST 16

Penticton
 eP 20 36 05

AUGUST 17

U. S. C. G. S.
 34. 4S, 109. 0W
 South of Easter Island
 H = 06 36 23.0
 h = 25 km
 Penticton
 eP 06 48 55

AUGUST 17

Penticton
 eP 16 19 20

AUGUST 17

U. S. C. G. S.
 17. 1S, 71. 8W
 Near coast of
 Peru
 H = 17 49 47.5
 h = 105 km
 Shawinigan Falls
 eP 18 00 12

AUGUST 17

Penticton
 eP 20 09 57

AUGUST 17

Penticton
 eP 20 16 05

AUGUST 17

Penticton
 eP 20 30 19

AUGUST 17

U. S. C. G. S.
 46. 3N, 149. 3E
 Kurile Islands
 H = 21 16 30.0
 h = 186 km
 Mag 6 3/4
 Alberni
 iP 21 25 44
 Banff
 iP 21 26 12
 Halifax
 iP 21 28 48
 Ottawa
 eP 21 28 24
 Penticton
 iP 21 26 04 c
 Resolute
 eP 21 25 24
 eS 21 32 35
 S_cS? 21 34 58
 SS ? 21 36 04?
 Shawinigan Falls
 eP 21 28 25
 i 21 29 05 d
 Victoria
 e 21 25 52

AUGUST 17

Penticton
 eP 21 55 21

SEISMOLOGICAL BULLETIN - 1961

AUGUST 18
Penticton
eP 01 59 04

AUGUST 18
Alberni
eP 07 50 11
e 07 50 30
Penticton
eP 07 50 30
Victoria
eP 07 49 49

AUGUST 18
U.S.C.G.S.
24.0S, 179.9W
Kermadec Islands
H = 11 01 26.5
h = 519 km
Penticton
eP 11 13 36

AUGUST 18
Penticton
eP 17 04 13

AUGUST 18
Penticton
eP 20 59 54

AUGUST 18
Penticton
eP 23 38 54

AUGUST 18
Penticton
eP 23 42 52

AUGUST 19
U.S.C.G.S.
43.1N, 145.0E
Hokkaido Japan
H = 02 42 58.2
h = 32 km
Banff
eP 02 53 38
Ottawa
eP 02 55 31
Penticton
eP 02 53 15
Resolute
eP 02 52 37
Shawinigan Falls
eP 02 55 32
Victoria
eP 02 53 19

AUGUST 19
Penticton
eP 03 15 38

AUGUST 19
49.8°N, 130.0°W
Off west coast of
Vancouver Island
H = 04 56 12
Mag 4.3
Banff
e 04 59 22
Penticton
iP 04 57 40 d
Victoria
eP 04 57 21 d

AUGUST 19
U.S.C.G.S.
10.7S, 71.0W
Péru-Brazil border
H = 05 09 49.5
h = 649 km
Mag 7
Alberni
iP 05 20 38 d

Banff
iP 05 20 20 d
Halifax
iP 05 18 31 d
Ottawa
iP 05 18 33 d
Penticton
iP 05 20 23 d
Resolute
iP 05 21 31
? 05 23 41
iS 05 30 57
? 05 34 56
Shawinigan Falls
iP 05 18 41 d
Victoria
eP 05 20 32 d

AUGUST 19
U.S.C.G.S.
36.0N, 136.5E
Off coast of
Honshu, Japan
H = 05 33 30.6
h = 17 km
Mag 7 1/2
Alberni
eP 05 44 36
Penticton
iP 05 44 54 c
Shawinigan Falls
iP 05 46 50 c
e 05 55 45

AUGUST 19
Penticton
eP 06 07 12

DOMINION OBSERVATORIES

AUGUST 19 U. S. C. G. S. 35. 9N, 136. 6E Near coast of Honshu, Japan H = 08 07 18. 3 h = 25 km Penticton eP 08 18 40 Shawinigan Falls eP 08 20 36	AUGUST 19 U. S. C. G. S. 11. 4S, 70. 6W Peru-Brazil border H = 16 01 25. 6 h = 645 km Banff eP 16 12 00 Penticton iP 16 12 04 d e 16 13 55 Resolute iP 16 13 11 Shawinigan Falls eP 16 10 22 c Victoria eP 16 12 12 d	AUGUST 20 Penticton eP 06 34 13 AUGUST 20 Penticton eP 08 44 05 AUGUST 20 U. S. C. G. S. 11. 4S, 70. 8W Peru-Brazil border H = 09 10 11. 7 h = 678 km Banff iP 09 20 44 Penticton iP 09 20 48 Shawinigan Falls eP 09 19 06
AUGUST 19 U. S. C. G. S. 43. 4N, 145. 2E Near coast of Hokkaido, Japan H = 12 44 57. 7 h = 20 km Penticton eP 12 55 16 Resolute iP 12 54 35	AUGUST 19 Penticton eP 17 03 36	
AUGUST 19 U. S. C. G. S. 18. 0N, 68. 8W Mona Passage H = 14 52 31. 4 h = 146 km Alberni eP 15 00 59 Banff eP 15 01 12 Halifax iP 14 58 04 Ottawa eP 14 58 12 Penticton eP 15 00 57 Resolute eP 15 02 15 Victoria eP 15 01 12 d	AUGUST 19 Penticton eP 19 00 04 AUGUST 19 Penticton eP 19 12 41 AUGUST 20 U. S. C. G. S. 17. 8S, 178. 8W Fiji Islands H = 05 04 14. 3 h = 592 km Alberni eP 05 15 38 Banff iP 05 16 08 c Penticton iP 05 15 52 c Shawinigan Falls eP' 05 21 52 Victoria eP 05 15 39	AUGUST 20 U. S. C. G. S. 6. 3S, 155. 4E Solomon Islands H = 10 19 56. 0 h = 72 km Penticton eP 10 32 58 Shawinigan Falls eP' 10 38 46 AUGUST 20 Resolute eP 18 07 23 AUGUST 21 U. S. C. G. S. 23. 4S, 65. 1W Argentina H = 01 28 32. 0 h = 98 km Penticton eP 01 41 12

SEISMOLOGICAL BULLETIN - 1961

AUGUST 21
Penticton
eP 02 02 15

AUGUST 21
U. S. C. G. S.
22.7S, 179.2W
Fiji Islands
H = 02 06 43.4
h = 554 km
Penticton
iP 02 18 40 c

AUGUST 21
48°45'N, 122°44'W
Gulf Islands
H = 03 26 02
Mag 2.3
Alberni
iP₁ 03 26 29.0
iS₁ 03 26 49.7
D = 170 km

Penticton
eP_n 03 26 37.8
D = 242 km

Victoria
iP₁ 03 26 11.5
iS₁ 03 26 19.1
D = 58 km

AUGUST 21
U. S. C. G. S.
36.3N, 71.5E
Hindu Kush
H = 07 00 21.2
h = 152 km
Penticton
eP 07 13 27
Shawinigan Falls
eP 07 13 15

AUGUST 21
Penticton
eP 07 52 50

AUGUST 21
U. S. C. G. S.
50.9N, 170.9W
Fox Islands
H = 11 20 39.7
h = 33 km
Penticton
eP 11 28 10

AUGUST 21
U. S. C. G. S.
17.8S, 174.4W
Tonga Islands
H = 16 06 55.4
h = 74 km
Mag 5 3/4
Victoria
eP 16 19 02

AUGUST 21
Penticton
eP 16 41 17

AUGUST 21
U. S. C. G. S.
40.9N, 138.9E
Off coast of
Honshu, Japan
H = 17 00 37.0
h = 49 km

Banff
eP 17 11 34 c

Ottawa
eP 17 13 28

Penticton
iP 17 11 26 c

Resolute
eP 17 10 36

Shawinigan Falls
eP 17 13 28

Victoria
eP 17 11 16 c

AUGUST 21
Penticton
eP 18 16 34

AUGUST 21
Penticton
eP 18 29 47

AUGUST 21
Penticton
eP 19 58 36

AUGUST 21
H = 20 01 51
Penticton
iP₁ 20 02 15.4
eS₁ 20 02 33.7
D = 150 km

AUGUST 21
H = 21 26 42
Penticton
eP_n 21 27 12.7
eS_n 21 27 37.2
D = 201 km

AUGUST 21
Penticton
eP 21 55 00

AUGUST 22
U. S. C. G. S.
43.2N, 144.5E
Near coast of
Hokkaido, Japan
H = 06 12 07.2
h = 25 km
Penticton
eP 06 22 28

DOMINION OBSERVATORIES

AUGUST 22

U. S. C. G. S.
13. 4S, 166. 7E
New Hebrides Islands
H = 08 59 27. 9
h = 63 km

Penticton
eP 09 12 23

AUGUST 22

47°20'N±20', 70°30'W±30'
St. Lawrence River
H = 18 55 50. 8
Mag 3. 4

Montreal
i 18 56 37
i(P₁) 18 56 41
i 18 57 13
iS₁ 18 57 18
D = 320 km

Ottawa
e 18 56 59
i(P₁) 18 57 05
e 18 57 45
iS₁ 18 57 57
D = 460 km

Shawinigan Falls
iP₁ 18 56 22. 5
S₁ 18 56 46. 6
D = 198 km

AUGUST 22

Penticton
eP 19 28 19

AUGUST 22

49°22'N, 123°37'W
Strait of Georgia
H = 19 41 16
Mag 2. 6

Alberni
eP₁ 19 41 30. 1
D = 88 km

Penticton
eP_n 19 41 58. 7
D = 297 km

Victoria

eP₁ 19 41 31. 1
eS₁ 19 41 42. 9
D = 95 km

AUGUST 22

U. S. C. G. S.
52. 3N, 172. 2W
Fox Islands
H = 22 21 47. 6
h = 53 km

Banff
eP 22 28 33

AUGUST 22

H = 22 47 54
Penticton
eP₁ 22 48 17. 7
eS₁ 22 48 36. 0
D = 150 km

AUGUST 22

H = 23 00 56
Penticton
eP₁ 23 01 18. 1
eS₁ 23 01 35. 2
D = 140 km

AUGUST 23

U. S. C. G. S.
32. 9N, 116. 3W
California
H = 01 00 47. 1
h = 27 km
Mag 4 3/4

Penticton
eP 01 04 41

AUGUST 23

H = 01 22 22
Penticton
eP₁ 01 22 44. 9
eS₁ 01 23 02. 0
D = 140 km

AUGUST 23

U. S. C. G. S.
38. 7N, 68. 7E
Tadzhik S. S. R.
H = 04 12 35. 9
h = 25 km

Banff
eP 04 25 41 d

Halifax
P 04 25 21

Penticton
iP 04 25 46

Resolute
eP 04 23 26

Shawinigan Falls
eP 04 25 30 d

Victoria
eP 04 25 49 d

AUGUST 23

Penticton
eP 19 25 16

AUGUST 23

Penticton
eP 23 06 54

AUGUST 24

U. S. C. G. S.
42. 9N, 145. 3E
Hokkaido, Japan
H = 04 52 20. 5
h = 44 km

Ottawa
eP 05 04 53

Penticton
e 05 04 38

Resolute
iP 05 01 58 d

Shawinigan Falls
eP 05 04 53

SEISMOLOGICAL BULLETIN - 1961

- AUGUST 24
Penticton
eP 07 43 11
- AUGUST 24
Penticton
eP 10 01 35
- AUGUST 24
Penticton
eP 12 05 44
- AUGUST 24
Penticton
eP 16 51 21
- AUGUST 24
U.S.C.G.S.
21.3S, 173.1E
Loyalty Islands
H = 20 58 36.2
h = 258 km
Penticton
eP 21 11 08
- AUGUST 24
U.S.C.G.S.
43.0N, 145.0E
Hokkaido, Japan
H = 22 40 49.1
h = 18 km
Banff
eP 22 51 19
Halifax
P 22 53 46
Ottawa
eP 22 53 24
Resolute
iP 22 50 30 c
Shawinigan Falls
eP 22 53 24
Victoria
eP 22 50 59
- AUGUST 25
U.S.C.G.S.
15.2N, 87.0W
Honduras
H = 05 42 01.2
h = 48 km
Banff
eP 05 49 54
Shawinigan Falls
eP 05 48 38
Victoria
eP 05 50 16
- AUGUST 25
U.S.C.G.S.
53.5N, 161.2W
Alaska
H = 06 59 30.2
h = 36 km
Banff
eP 07 05 20
Halifax
P 07 09 34
Ottawa
eP 07 08 46
Resolute
eP 07 06 09
Shawinigan Falls
eP 07 08 53 c
Victoria
eP 07 04 45
- AUGUST 25
H = 19 01 02
Penticton
eP₁ 19 01 29.6
eS₁ 19 01 50.2
D = 169 km
- AUGUST 25
Resolute
eP 20 39 59 d
- AUGUST 25
U.S.C.G.S.
8.1S, 122.8E
Flores Sea
H = 21 26 28.1
h = 191 km
Halifax
P' 21 45 43
- AUGUST 25
H = 22 53 02
Penticton
eP₁ 22 53 26.7
eS₁ 22 53 45.2
D = 152 km
- AUGUST 26
H = 01 07 15
Penticton
eP_n 01 07 48.4
eS_n 01 08 14.8
D = 216 km
- AUGUST 26
U.S.C.G.S.
7.0N, 73.2W
Colombia
H = 01 19 39.1
h = 183 km
Penticton
eP 01 29 13
- AUGUST 26
Penticton
eP 06 58 52
- AUGUST 26
H = 17 01 01
Penticton
eP₁ 17 01 23.3
eS₁ 17 01 39.1
D = 138 km

DOMINION OBSERVATORIES

AUGUST 26

U. S. C. G. S.
18. 0N, 146. 4E
Mariana Islands
H = 18 49 47. 1
h = 53 km
Penticton
eP 19 01 49
Resolute
eP 19 01 54

AUGUST 27

U. S. C. G. S.
15. 3S, 13. 1W
South of Ascension
Island
H = 01 51 51. 8
h = 49 km
Halifax
eP 02 03 34
Ottawa
eP 02 04 14
Shawinigan Falls
eP 02 04 09

AUGUST 27

H = 02 23 16
Victoria
iP₁ 02 23 21. 1
iS₁ 02 23 24. 8
D = 30 km

AUGUST 27

Penticton
eP 06 00 32

AUGUST 27

U. S. C. G. S.
18. 5S, 178. 2W
Fiji Islands
H = 06 43 29. 9
h = 488 km
Penticton
iP 06 55 19

AUGUST 27

Penticton
eP 12 17 26

AUGUST 27

U. S. C. G. S.
22. 8S, 114. 4W
Easter Island
H = 15 28 25. 0
h = 25 km
Penticton
eP 15 39 53

AUGUST 27

U. S. C. G. S.
46. 6N, 154. 1E
Kurile Islands
H = 16 22 08. 1
h = 31 km
Mag 6 1/2
Banff
eP 16 31 50
Halifax
eP 16 34 47
Ottawa
eP 16 34 07
Penticton
iP 16 31 37
Resolute
iP 16 31 08 d
S 16 38 23
Shawinigan Falls
eP 16 34 09

AUGUST 27

U. S. C. G. S.
18. 3N, 146. 6E
Mariana Islands
H = 16 47 44. 8
h = 27 km
Mag 6 1/4
Banff
eP 17 00 13
Penticton
iP 16 59 49
Resolute
iP 16 59 54 c
S | 17 09 55

Victoria

eP 16 59 37

AUGUST 27

U. S. C. G. S.
2. 2N, 128. 6E
Halmahera
H = 17 02 27. 2
h = 263 km
Shawinigan Falls
eP' 17 21 07

AUGUST 27

U. S. C. G. S.
17. 9N, 146. 4E
Mariana Islands
H = 17 58 00. 8
h = 74 km
Penticton
eP 18 10 02

AUGUST 27

U. S. C. G. S.
46. 8N, 153. 9E
Kurile Islands
H = 20 56 15. 6
h = 25 km
Penticton
eP 21 05 45
Shawinigan Falls
eP 21 08 18
Resolute
iP 21 05 16 d

AUGUST 27

U. S. C. G. S.
35. 9N, 23. 7E
Near coast of Crete
H = 22 08 49. 8
h = 69 km
Halifax
P 22 19 19
Ottawa
eP 22 20 05 d
Penticton
eP 22 21 40
Shawinigan Falls
eP 22 19 50 d

SEISMOLOGICAL BULLETIN - 1961

AUGUST 28
 U.S.C.G.S.
 15. 1S, 70. 2W
 Peru-Bolivia border
 H = 06 28 19. 4
 h = 185 km
 Halifax
 iP 06 38 10 c
 Ottawa
 eP 06 38 13
 Penticton
 iP 06 40 01
 Resolute
 iP 06 41 08
 Shawinigan Falls
 eP 06 38 21 c
 Victoria
 eP 06 40 10

AUGUST 28
 Banff
 eP 06 49 29

AUGUST 28
 U.S.C.G.S.
 18. 6S, 178. 0W
 Fiji Islands
 H = 09 44 13. 5
 h = 574 km
 Banff
 iP 09 56 11 d
 Penticton
 iP 09 55 54 d
 Victoria
 iP 09 55 42 d

AUGUST 28
 U.S.C.G.S.
 46. 7N, 153. 9E
 Kurile Islands
 H = 12 13 45. 3
 h = 19 km
 Penticton
 eP 12 23 15

AUGUST 28
 U.S.C.G.S.
 14. 0S, 74. 4W
 Near coast of Peru
 H = 21 27 12. 1
 h = 73 km
 Banff
 eP 21 38 46
 Halifax
 iP 21 37 10 c
 Ottawa
 eP 21 37 09
 Penticton
 eP 21 38 49 d
 Shawinigan Falls
 eP 21 37 18
 Victoria
 eP 21 38 57

AUGUST 29
 Penticton
 eP 00 21 02

AUGUST 28
 U.S.C.G.S.
 12. 7S, 169. 6E
 Santa Cruz Islands
 H = 07 41 24. 5
 h = 662 km
 Penticton
 iP 07 53 10

AUGUST 28
 Resolute
 eP 17 45 56

AUGUST 29
 U.S.C.G.S.
 42. 7N, 145. 0E
 Kurile Islands
 H = 05 55 33. 0
 h = 25 km
 Penticton
 eP 06 05 54

AUGUST 28
 U.S.C.G.S.
 22. 9S, 113. 4W
 Easter Island region
 H = 20 26 04. 2
 h = 56 km
 Banff
 eP 20 37 34
 Penticton
 eP 20 37 25
 Shawinigan Falls
 eP 20 38 00 c
 Victoria
 eP 20 37 22

AUGUST 29
 Penticton
 iP 12 25 15

AUGUST 28
 U.S.C.G.S.
 53. 6N, 159. 1E
 Kamchatka
 H = 09 10 13. 0
 h = 25 km
 Banff
 eP 09 19 02
 Penticton
 eP 09 18 53

AUGUST 28
 Penticton
 eP 21 12 08

AUGUST 29
 U.S.C.G.S.
 52. 2N, 170. 8W
 Fox Islands
 H = 14 51 14. 2
 h = 41 km
 Mag 5
 Banff
 eP 14 57 54 d

DOMINION OBSERVATORIES

Halifax eP 15 01 53?	Penticton eP 03 47 30	AUGUST 31 U. S. C. G. S.
Ottawa eP 15 01 10 d	Shawinigan Falls eP 03 44 12	10. 6S, 70. 9W
Penticton iP 14 57 41		Peru-Brazil border
Shawinigan Falls eP 15 01 14		H = 01 48 37. 5
Victoria eP 14 57 25 d		h = 626 km
	AUGUST 30	Mag 7
AUGUST 29	U. S. C. G. S.	Banff
U. S. C. G. S.	3. 5S, 77. 7W	iP 01 59 07 d
15. 4S, 168. 1E	Ecuador-Peru	Halifax
New Hebrides Islands	border	iP 01 57 19 d
H = 21 33 43. 0	H = 03 45 25. 7	Ottawa
h = 25 km	h = 25 km	iP 01 57 21 d
Penticton	Halifax	Penticton
eP 21 47 14	P 03 54 21	iP 01 59 12 d
	Ottawa	Resolute
	eP 03 54 13	eP 02 00 20 d
	Penticton	PP? 02 02 24
	iP 03 56 03	S 02 08 50
	Shawinigan Falls	i 02 10 06
	eP 03 54 25	i 02 18 15
		Shawinigan Falls
AUGUST 30		iP 01 57 29 d
U. S. C. G. S.	AUGUST 30	Victoria
53. 7N, 166. 3W	U. S. C. G. S.	eP 01 59 21 d,S,E
Fox Islands	39. 1N, 77. 6E	
H = 02 25 45. 4	China	
Halifax	H = 14 51 49. 7	AUGUST 31
P 02 36 02	h = 201 km	U. S. C. G. S.
Ottawa	Penticton	10. 4S, 70. 7W
eP 02 35 16	eP 15 04 33	Peru-Brazil border
Penticton		H = 01 57 08. 0
iP 02 31 43		h = 629 km
Shawinigan Falls	AUGUST 30	Mag 7 1/2
eP 02 35 23	H = 22 43 42	Halifax
	Penticton	iP 02 05 45. 5 d
	eP ₁ 22 44 06. 5	Ottawa
AUGUST 30	eS ₁ 22 44 24. 9	iP 02 05 49 d
U. S. C. G. S.	D = 151 km	Shawinigan Falls
7. 0N, 33. 2W		iP 02 05 56 d
North Atlantic Ocean		
H = 03 35 07. 7	AUGUST 31	
h = 69 km	U. S. C. G. S.	
Mag 4 1/2	28. 1S, 176. 7W	
Halifax	Kermadec Islands	
eP 03 43 28	H = 00 22 47. 3	
Ottawa	h = 56 km	
eP 03 44 20	Penticton	
	eP 00 35 55	

SEISMOLOGICAL BULLETIN - 1961

SEPTEMBER 1

Penticton
eP 00 11 47.1

SEPTEMBER 1

U. S. C. G. S.
59.3S, 27.3W
Sandwich Islands
H = 00 09 34.6
h = 151 km
Mag 7 1/2

Banff
eP' 00 28 33

Halifax
eP 00 23 51

Penticton
eP' 00 28 18

Resolute
P' 00 28 44

S 00 31 56

i 00 32 34

Shawinigan Falls
eP 00 24 18

eP' 00 28 10

Victoria
eP' 00 28 38

SEPTEMBER 1

U. S. C. G. S.
15.0N, 87.4W
Honduras
H = 03 16 12.9
h = 161 km
Penticton
eP 03 24 01

SEPTEMBER 1

U. S. C. G. S.
16.4N, 93.8W
Mexico
H = 04 43 13.4
h = 155 km
Ottawa
eP 04 49 57
Shawinigan Falls
eP 04 50 29

SEPTEMBER 1

U. S. C. G. S.
18.0S, 178.3W
Fiji Islands region
H = 18 41 32.4
h = 619 km
Penticton
iP 18 53 08 c

SEPTEMBER 1

U. S. C. G. S.
13.5N, 92.5W
Off coast of
Guatemala
H = 18 50 35.4
h = 37 km
Mag 6 1/2
Banff
iP 18 58 24 d
Halifax
iP 18 58 04 c
Ottawa
iP 18 57 22 c
Penticton
iP 18 58 26 d
Resolute
iP 19 00 48 d
S 19 09 06
ScS? 19 10 39
Shawinigan Falls
eP 18 57 40 c

SEPTEMBER 1

U. S. C. G. S.
15.2N, 87.3W
Near coast of
Honduras
H = 20 14 56.8
h = 75 km
Penticton
eP 20 22 46

SEPTEMBER 1

Penticton
eP 20 38 25

SEPTEMBER 1

Penticton
eP 22 52 13

SEPTEMBER 1

Penticton
eP 23 38 39

SEPTEMBER 2

U. S. C. G. S.
52.0N, 170.9W
Fox Islands
H = 00 26 06.2
h = 39 km
Banff
iP 00 32 54 c
Halifax
eP 00 36 47.5
Ottawa
eP 00 36 04
Penticton
iP 00 32 35 c
Resolute
P 00 33 16
Shawinigan Falls
eP 00 36 09 c
Victoria
eP 00 32 19

SEPTEMBER 2

U. S. C. G. S.
42.2N, 142.6E
Near coast of
Hokkaido, Japan
H = 07 33 24.3
h = 31 km
Penticton
eP 07 43 54

DOMINION OBSERVATORIES

SEPTEMBER 2

Penticton
eP 22 17 42

SEPTEMBER 2

H = 23 22 33
Victoria
iP₁ 23 22 55.8
iS₁ 23 23 15.5
D = 162 km

SEPTEMBER 3

H = 01 38 34
Penticton
eP_n 01 39 02.2
eS_n 01 39 23.4
D = 173 km

SEPTEMBER 3

U. S. C. G. S.
12. 1N, 86. 9W
Near coast of
Nicaragua
H = 04 48 25.6
h = 124 km
Halifax
P 04 55 34
Ottawa
iP 04 55 02 c
Penticton
iP 04 56 37
Shawinigan Falls
iP 04 55 19 c

SEPTEMBER 3

Penticton
eP 09 43 13

SEPTEMBER 3

U. S. C. G. S.
51. 8N, 158. 9E
Near coast of
Kamchatka
H = 17 29 20.6
h = 22 km
Penticton
eP 17 38 10

SEPTEMBER 4

U. S. C. G. S.
52. 1N, 173. 4E
Near Islands
H = 00 52 23.5
h = 41 km
Penticton
eP 01 00 07

SEPTEMBER 4

U. S. C. G. S.
46. 9N, 154. 2E
Kurile Islands
H = 04 53 12.9
h = 22 km
Penticton
eP 05 02 43

SEPTEMBER 4

U. S. C. G. S.
51. 4N, 178. 1W
Andreanof Islands
H = 09 49 10.7
h = 35 km
Mag 6 1/4
Banff
iP 09 56 30 c
Halifax
eP 10 00 13.5
Ottawa
eP 09 59 34
Penticton
iP 09 56 18 c
Resolute
eP 09 56 43
Shawinigan Falls
eP 09 59 37
Victoria
iP 09 56 02 c

SEPTEMBER 4

U. S. C. G. S.
52. 1N, 173. 8E
Near Islands
H = 17 15 49.7
h = 67 km
Penticton
eP 17 22 27

SEPTEMBER 4

47°32'N, 122°57'W
Puget Sound Area,
Washington, U. S. A.
H = 20 00 00
Mag 2.7
Penticton
eP_n 20 00 45.4
D = 320 km
Victoria
eP₁ 20 00 18.1
eS₁ 20 00 32.1
D = 115 km

SEPTEMBER 5

U. S. C. G. S.
16. 2S, 172. 6W
Samoa Islands
H = 00 46 29.6
h = 49 km
Penticton
eP 00 58 41

SEPTEMBER 5

U. S. C. G. S.
80. 0N, 2. 3W
Arctic Ocean
H = 02 37 34.9
h = 18 km
Resolute
eP 02 41 49
e 02 45 04

SEPTEMBER 5

U. S. C. G. S.
38. 6N, 73. 3E
Tadzhik, S. S. R.
H = 06 12 54.8
h = 50 km
Banff
eP 06 25 50
Penticton
iP 06 25 58

SEISMOLOGICAL BULLETIN - 1961

Shawinigan Falls
iP 06 25 49 c

SEPTEMBER 5

Halifax
P 08 33 29

SEPTEMBER 5

U.S.C.G.S.
44.2N, 149.2E
Kurile Islands
H = 09 11 22.2
h = 49 km
Penticton
eP 09 21 20

SEPTEMBER 5

U.S.C.G.S.
59.8N, 150.6W
Kenai Peninsula
H = 11 34 37.3
h = 44 km
Mag 6

Banff
eP 11 39 24 c

Halifax
iP 11 43 40

Ottawa
iP 11 42 50 c

Penticton
iP 11 39 11 c

Resolute
iP 11 39 59 d
S 11 44 23

Shawinigan Falls
iP 11 42 55 c

Victoria
iP 11 38 58 c

SEPTEMBER 5

U.S.C.G.S.
36.4N, 54.4E
Northern Iran
H = 14 09 55.1
h = 59 km
Shawinigan Falls
eP 14 22 27

SEPTEMBER 5

Penticton
eP 17 09 15

SEPTEMBER 5

H = 18 43 42
Penticton
eP₁ 18 44 05.7
eS₁ 18 44 24.1
D = 150 km

SEPTEMBER 5

U.S.C.G.S.
11.8N, 141.9E
Mariana Islands
H = 21 07 32.6
h = 25 km
Penticton
eP 21 20 15

SEPTEMBER 5

Penticton
eP 23 04 34

SEPTEMBER 6

U.S.C.G.S.
2.8N, 125.8E
Molucca Passage
H = 08 14 17.4
h = 58 km
Ottawa
eP' 08 33 21
Shawinigan Falls
eP' 08 33 22 d

SEPTEMBER 6

Penticton
eP 09 46 01

SEPTEMBER 6

U.S.C.G.S.
10.8S, 79.1W
Near coast of Peru
H = 15 30 20.4
h = 45 km
Penticton
eP 15 41 30
Shawinigan Falls
eP 15 40 07

SEPTEMBER 6

H = 21 07 30
Penticton
eP₁ 21 07 51.9
eS₁ 21 08 08.9
D = 139 km

SEPTEMBER 6

Penticton
eP 22 26 19

SEPTEMBER 7

Penticton
eP 17 23 34

SEPTEMBER 7

48°09'N, 122°56'W
Puget Sound,
Washington, U.S.A.
H = 18 11 17
Mag 2.0
Penticton
eP_n 18 11 57.4
D = 277 km
Victoria
iP₁ 18 11 25.5
iS₁ 18 11 32.1
D = 54 km

DOMINION OBSERVATORIES

SEPTEMBER 7	Ottawa	SEPTEMBER 8
Penticton	eP 04 59 15	Penticton
eP 20 37 46	Penticton	eP 15 50 12
	iP 04 54 02	
	Resolute	
SEPTEMBER 7	eP 04 57 59	SEPTEMBER 8
Penticton	S 05 06 48	H = 21 30 12
eP 22 46 09	SS? 05 11 19	Penticton
	Shawinigan Falls	eP _n 21 31 14.0
	eP 04 59 24	D = 462 km
SEPTEMBER 8	Victoria	
U.S.C.G.S.	iP 04 53 36	
63.1N, 150.5W		
Alaska	SEPTEMBER 8	SEPTEMBER 9
H = 00 05 13.8	Penticton	U.S.C.G.S.
h = 135 km	eP 06 07 48	52.5N, 169.4W
Banff		Fox Islands
eP 00 09 59		H = 09 10 25.2
Halifax		h = 61 km
P 00 13 56	SEPTEMBER 8	Halifax
Ottawa	U.S.C.G.S.	eP 09 20 58
eP 00 13 10	56.1S, 27.3W	Ottawa
Penticton	Sandwich Islands	eP 09 20 12
iP 00 09 56	H = 11 26 32.8	Penticton
Resolute	h = 125 km	eP 09 16 41
eP 00 09 58	Mag 7 1/2	
Shawinigan Falls	Banff	SEPTEMBER 9
iP 00 13 14 c	iP' 11 45 27 c	U.S.C.G.S.
	Halifax	33.8N, 139.6E
	eP 11 40 30	Off coast of
	Ottawa	Honshu, Japan
	eP 11 40 49	H = 09 16 08.6
	Penticton	h = 151 km
	e 11 43 42	Penticton
	eP' 11 45 07	eP 09 27 14
	Resolute	Resolute
	eP' 11 45 32	P 09 26 40
	S 11 48 33	
	i 11 49 07	
	Shawinigan Falls	SEPTEMBER 9
	eP 11 40 52	U.S.C.G.S.
	Victoria	51.7N, 174.9W
	eP' 11 45 15	Andreanof Islands
		H = 11 47 12.4
		h = 50 km
SEPTEMBER 8	SEPTEMBER 8	Banff
U.S.C.G.S.	Penticton	eP 11 54 14
51.8N, 131.2W	eP 15 40 39	Ottawa
Queen Charlotte Islands		iP 11 57 24 d
H = 04 52 10.3		Penticton
h = 54 km		eP 11 54 00
Mag 5		
Banff		
eP 04 54 32		

SEISMOLOGICAL BULLETIN - 1961

SEPTEMBER 9

U.S.C.G.S.
1.5N, 90.6W
Galapagos Islands
H = 19 10 47.6
h = 54 km
Banff
eP 19 20 07
Penticton
iP 19 20 07
Shawinigan Falls
eP 19 19 22
Victoria
eP 19 20 13

SEPTEMBER 10

H = 01 28 16
Penticton
eP_n 01 28 56.6
eS_n 01 29 31.4
D = 285 km

SEPTEMBER 10

U.S.C.G.S.
49.2N, 158.2E
Off coast of
Kamchatka
H = 01 43 07.2
h = 33 km
Penticton
iP 01 52 09

SEPTEMBER 10

U.S.C.G.S.
22.7S, 63.1W
Argentina
H = 04 45 27.1
h = 519 km
Halifax
iP .04 55 31 d
Ottawa
iP 04 55 40 d
Penticton
iP 04 57 21

Shawinigan Falls

eP 04 55 44
Victoria
eP 04 57 27

SEPTEMBER 10

Penticton
eP 15 48 59
Victoria
eP 15 49 08

SEPTEMBER 11

U.S.C.G.S.
51.3N, 179.7W
Andreanof Islands
H = 02 46 43.4
h = 15 km

Banff
eP 02 54 14
Ottawa
eP 02 57 16
Penticton
eP 02 54 02
Resolute
eP 02 54 22
Shawinigan Falls
eP 02 57 20
Victoria
eP 02 53 45 c

SEPTEMBER 11

U.S.C.G.S.
43.5N, 127.2W
Off coast of
California
H = 04 39 44.9
h = 23 km
Penticton
iP 04 41 38
Victoria
iP 04 41 08 d

SEPTEMBER 11

U.S.C.G.S.
51.0N, 179.9W
Andreanof Islands
H = 09 02 39.4
h = 25 km
Penticton
eP 09 09 57

SEPTEMBER 11

Resolute
eP 13 30 25

SEPTEMBER 11

U.S.C.G.S.
10.8N, 62.4W
Off coast of
Venezuela
H = 22 15 02.6
h = 134 km
Halifax
iP 22 21 33 d
Ottawa
eP 22 21 53
i 22 24 16
Penticton
iP 22 25 01
Resolute
eP 22 25 37
Shawinigan Falls
eP 22 21 58 c
Victoria
iP 22 25 11 c

SEPTEMBER 11

U.S.C.G.S.
42.8N, 145.4E
Near coast of
Hokkaido, Japan
H = 23 47 19.5
h = 18 km
Ottawa
eP 23 59 53 d
Penticton
eP 23 57 39

DOMINION OBSERVATORIES

Resolute iP 23 56 58	Shawinigan Falls eP 09 35 08	SEPTEMBER 12 U. S. C. G. S. 23.0S, 176.2W
Shawinigan Falls iP 23 59 53 d	Victoria eP 09 36 03	Tonga Islands H = 11 58 01.4 h = 39 km
Victoria eP 23 57 24	SEPTEMBER 12 45°12'N±10' 75°15'W±10'	Penticton eP 12 10 52
SEPTEMBER 12 U. S. C. G. S. 18.3S, 169.1E	Southeast of Ottawa H = 09 54 22.5 Mag 2.8	SEPTEMBER 12 U. S. C. G. S. 43.8N, 147.8E
New Hebrides Islands H = 01 14 32.9 h = 208 km	Montreal iP ₁ 09 54 43.0 i 09 54 47	Near coast of Hokkaido, Japan H = 12 27 09.2 h = 96 km
Penticton eP 01 27 20	iS ₁ 09 54 59.3 D = 134 km	Ottawa eP 12 39 28
SEPTEMBER 12 U. S. C. G. S. 63.2N, 149.0W	Ottawa iP ₁ 09 54 30.0 iS ₁ 09 54 35.3 D = 43.5 km	Penticton iP 12 37 11
Alaska H = 05 38 03.5 h = 72 km	Shawinigan Falls iP ₁ 09 55 00.4 i 09 55 03.8	Resolute eP 12 36 32
Ottawa eP 05 46 06	i 09 55 26.4 iS ₁ 09 55 28.5 D = 234 km	Shawinigan Falls eP 12 39 29
Penticton eP 05 42 47	SEPTEMBER 12 U. S. C. G. S. 10.8S, 69.8W	SEPTEMBER 12 U. S. C. G. S. 32.1N, 115.1W
Shawinigan Falls eP 05 46 06	Peru-Bolivia border H = 11 18 26.3 h = 618 km	California H = 19 18 39.0 h = 25 km Mag 5 1/4
SEPTEMBER 12 U. S. C. G. S. 15.1S, 173.6W	Penticton iP 11 29 07	Banff eP 19 23 04
Tonga Islands H = 08 01 34.9 h = 87 km	Shawinigan Falls eP 11 27 24	Penticton eP 19 22 46
Penticton eP 08 13 38	Victoria eP 11 29 11	Shawinigan Falls eP 19 25 39
SEPTEMBER 12 U. S. C. G. S. 13.9N, 92.3W		Victoria eP 19 22 48 d
Off coast of Guatemala H = 09 28 14.9 h = 83 km		
Penticton eP 09 35 59		

SEISMOLOGICAL BULLETIN - 1961

SEPTEMBER 12

U. S. C. G. S.
59. 4S, 29. 2W
Sandwich Islands
H = 19 29 05. 2
h = 25 km
Penticton
eP' 19 48 17

SEPTEMBER 12

H = 20 11 58
Penticton
iP₁ 20 12 21. 1
iS₁ 20 12 38. 5
D = 142 km

SEPTEMBER 12

Penticton
eP 20 18 15

SEPTEMBER 12

H = 22 11 48
Penticton
eP_n 22 12 39. 7
eS_n 22 13 24. 4
D = 366 km

SEPTEMBER 12

H = 22 25 00
Penticton
iP₁ 22 25 22. 9
iS₁ 22 25 40. 4
D = 144 km

SEPTEMBER 13

H = 13 54 46
Penticton,
iP_n 13 55 28. 7
iS_n 13 56 04. 5
D = 293 km

SEPTEMBER 13

U. S. C. G. S.
41. 6S, 73. 2W
Chile
H = 21 19 26. 2
h = 154 km
Mag 7
Halifax
eP 21 32 01 d
Ottawa
eP 21 32 00
Shawinigan Falls
eP 21 32 06 d

SEPTEMBER 14

Penticton
eP 01 14 25

SEPTEMBER 14

Penticton
eP 01 19 28
Victoria
eP 01 19 39

SEPTEMBER 14

Penticton
iP 02 10 24

SEPTEMBER 14

U. S. C. G. S.
33. 6N, 48. 8E
Iran
H = 08 03 09. 0
h = 30 km
Halifax

eP 08 15 19
Shawinigan Falls
eP 08 15 38 d

SEPTEMBER 14

H = 18 38 40
Penticton
eP₁ 18 39 04. 6
eS₁ 18 39 23. 1
D = 152 km

SEPTEMBER 14

U. S. C. G. S.
23. 6S, 179. 9W
Fiji Islands
H = 18 44 47. 0
h = 521 km
Penticton
eP 18 56 50

SEPTEMBER 14

U. S. C. G. S.
37. 4N, 141. 1E
Near coast of
Honshu, Japan
H = 21 50 41. 3
h = 60 km
Penticton
eP 21 59 44

SEPTEMBER 14

H = 22 14 17
Penticton
eP₁ 22 14 39. 6
eS₁ 22 14 56. 5
D = 138 km

SEPTEMBER 14

H = 22 52 30
Penticton
iP₁ 22 52 51. 8
eS₁ 22 53 08. 3
D = 135 km

SEPTEMBER 15

U. S. C. G. S.
35. 1N, 33. 9E
Cyprus
H = 01 46 08. 4
h = 25 km
Banff
eP 01 59 08 c
Halifax
iP 01 57 27. 5c
Ottawa
eP 01 58 06
Penticton
iP 01 59 20

DOMINION OBSERVATORIES

Resolute eP 01 56 49	Penticton iP _n 03 25 54.2 iS _n 03 26 49.7	SEPTEMBER 16 Penticton eP 10 26 01
Shawinigan Falls eP 01 57 53 c	Victoria iP _n 03 25 39.8c iS _n 03 26 09.3	
Victoria eP 01 59 27		SEPTEMBER 16 46°11'N, 122°17'W Washington, U.S.A. H = 11 46 04.5 Mag 3.2
SEPTEMBER 15 Penticton eP 14 47 00	SEPTEMBER 16 46.3N, 122.0W Aftershock of previous Washington, U.S.A. H = 06 47 00.6 Mag 2.8	Penticton eP _n 11 47 00.4 eS _n 11 47 57.9 D = 402 km
SEPTEMBER 15 H = 19 57 33 Penticton iP _n 19 58 15.8 iS _n 19 58 51.7 D = 294 km	Penticton eP _n 06 47 53.9 D = 382 km Victoria eP _n 06 47 40.1 eS _n 06 48 13.9 D = 270 km	Victoria eP _n 11 46 44.0 eS _n 11 47 20.6 D = 270 km
SEPTEMBER 15 Penticton eP 21 08 27	SEPTEMBER 16 46.2°N, 122.2°W Aftershock of Washington (03 25) H = 06 50 19.8 Mag 2.9	SEPTEMBER 16 U.S.C.G.S. 28.3N, 138.6E South of Honshu, Japan H = 12 09 49.8 h = 388 km
SEPTEMBER 15 Ottawa eP 23 41 03 Penticton eP 23 38 24	Penticton eP _n 06 51 14.9 D = 397 km Victoria eP _n 06 50 59.3 eS _n 06 51 33.3 D = 270 km	Penticton iP 12 20 57 Resolute eP 12 20 31 ? Victoria eP 12 20 46
SEPTEMBER 16 Penticton iP 02 33 51		SEPTEMBER 16 U.S.C.G.S. 14.4N, 46.0W Mid-Atlantic Ocean H = 13 31 34.5 h = 19 km
SEPTEMBER 16 U.S.C.G.S. 45.9N, 121.9W Southern Washington, U.S.A. H = 03 25 00.3 h = 37 km Banff eP 03 26 41	SEPTEMBER 16 Resolute iP 09 11 22?	Ottawa eP 13 39 12 Penticton eP 13 42 40 Shawinigan Falls eP 13 39 07 Victoria eP 13 42 43

SEISMOLOGICAL BULLETIN - 1961

SEPTEMBER 16

U.S.C.G.S.
52.1N, 158.5E
Kamchatka
H = 17 17 46.1
h = 49 km
Penticton
eP 17 26 32
Resolute
eP 17 25 58

SEPTEMBER 16

Penticton
eP 20 09 51

SEPTEMBER 16

U.S.C.G.S.
10.6S, 69.8W
Brazil-Peru
border
H = 20 02 47.8
h = 629 km
Penticton
eP 20 13 26

SEPTEMBER 16

Penticton
eP 21 19 01

SEPTEMBER 17

Penticton
eP 04 00 11

SEPTEMBER 17

Victoria
eP 04 19 32

SEPTEMBER 17

U.S.C.G.S.
23.9N, 122.2E
Off coast of
Formosa
H = 08 41 53.6
h = 35 km
Banff
iP 08 54 52 c
Penticton
iP 08 54 48 c
Resolute
eP 08 53 55
Victoria
iP 08 54 39 c

SEPTEMBER 17

Penticton
eP 11 04 23

SEPTEMBER 17

Resolute
eP 13 09 26

SEPTEMBER 17

Banff
eP 13 42 23

SEPTEMBER 17

U.S.C.G.S.
45.9N, 122.0W
Washington, U.S.A.
H = 15 55 58.9
h = 24 km
Alberni
iP_n 15 56 56.3
Banff
eP 15 57 40
Penticton
eP_n 15 57 04.3
Victoria
iP_n 15 56 40.0 c
iS_n 15 57 13.1
D = 265 km

SEPTEMBER 17

Resolute
eP? 16 12 10?
i 16 12 22
Penticton
eP 16 14 01

SEPTEMBER 17

Penticton
eP 16 35 03

SEPTEMBER 17

Penticton
eP 16 38 53

SEPTEMBER 17

U.S.C.G.S.
5.9S, 147.4E
Near coast of
New Guinea
H = 23 22 06.3
h = 45 km
Halifax
eP' 23 41 18.5
Penticton
iP 23 35 32
Shawinigan Falls
eP' 23 41 06

SEPTEMBER 18

U.S.C.G.S.
48.8°N, 128.9°W
Vancouver Island region
H = 02 25 19.3
h = 21 km
Alberni
iP_n 02 26 02.5 c
iS_n 02 26 34.4
Banff
iP_n 02 27 30.4 c
Halifax
iP 02 33 27 d
Ottawa
eP 02 32 20
Penticton
iP_n 02 26 49.9 c

DOMINION OBSERVATORIES

Shawinigan Falls	SEPTEMBER 18	Resolute
eP 02 32 32 d	H = 12 32 38	eP 02 38 22
Victoria	Alberni	S? 02 48 (07)
iP _n 02 26 14.9 c	iP _n 12 33 16.9	i 02 48 54
	iS _n 12 33 48.9	i 02 52 42
	D = 260 km	i 02 55 48
SEPTEMBER 18		Shawinigan Falls
H = 02 29 08		eP 02 35 50
Alberni	SEPTEMBER 18	Victoria
iP _n 02 29 40.5	H = 19 29 06	eP 02 37 37
iS _n 02 30 11.8	Alberni	
D = 207 km	iP ₁ 19 29 24.9	SEPTEMBER 19
	iS ₁ 19 29 38.0	Penticton
	D = 116 km	eP 02 55 27
SEPTEMBER 18	Victoria	
Resolute	iP ₁ 19 29 13.3	SEPTEMBER 19
i 02 44 56	iS ₁ 19 29 18.8	Penticton
i 02 51 16	D = 45 km	eP 03 03 26
SEPTEMBER 18	SEPTEMBER 18	SEPTEMBER 19
U. S. C. G. S.	U. S. C. G. S.	U. S. C. G. S.
35.0N, 26.3E	48.9N, 128.4W	14.8N, 146.8E
Crete	Vancouver Island region	Mariana Islands
H = 05 08 37.7	H = 21 35 17.2	H = 06 09 56.6
h = 83 km	h = 46 km	h = 61 km
Shawinigan Falls	Penticton	Penticton
eP 05 19 51	eP 21 36 42	eP 06 22 05
	Victoria	
	eP 21 36 06	
SEPTEMBER 18		
U. S. C. G. S.	SEPTEMBER 19	SEPTEMBER 19
40.8N, 50.1E	U. S. C. G. S.	Ottawa
Caspian Sea	20.3S, 63.2W	eP 09 50 58
H = 11 01 00.8	Bolivia	
h = 31 km	H = 02 25 49.2	SEPTEMBER 19
Banff	h = 609 km	U. S. C. G. S.
iP 11 13 48 d	Mag 6 1/2	6.7N, 82.4W
Halifax	Banff	South of Panama
iP 11 12 50 d	eP 02 37 23	H = 09 46 17.7
Ottawa	Halifax	h = 33 km
eP 11 13 18 d	iP 02 35 33 d	Mag 6 1/4
Penticton	Ottawa	Alberni
eP 11 13 58	eP 02 35 43 d	iP 09 55 55
Resolute	Penticton	Banff
eP 11 11 23	iP 02 37 29	iP 09 55 29 c
Shawinigan Falls		Halifax
iP 11 13 06 d		iP 09 54 04.5 c
Victoria		
eP 11 14 04		

SEISMOLOGICAL BULLETIN - 1961

Ottawa
 eP 09 53 44
 Penticton
 iP 09 55 34
 Resolute
 eP 09 57 19
 iS 10 06 20
 Victoria
 iP 09 55 44 c

SEPTEMBER 20
 Canadian Arctic
 H = 06 54 45.6
 Mag 2.2
 Resolute
 P₁ 06 55 04
 06 55 06
 06 55 14
 S₁ 06 55 18
 D = 115 km

SEPTEMBER 20
 H = 22 18 33
 Penticton
 eP₁ 22 18 56.5
 eS₁ 22 19 14.0
 D = 144 km

SEPTEMBER 19
 U. S. C. G. S.
 21.6S, 179.4W
 Fiji Islands region
 H = 18 25 29.0
 h = 639 km
 Penticton
 iP 18 37 18
 Victoria
 eP 18 37 08

SEPTEMBER 20
 Penticton
 eP 11 44 57

SEPTEMBER 20
 H = 22 50 12
 Penticton
 eP₁ 22 50 34.8
 eS₁ 22 50 52.0
 D = 141 km

SEPTEMBER 19
 Penticton
 eP 21 48 32

SEPTEMBER 20
 Penticton
 eP 15 00 13

SEPTEMBER 20
 H = 22 52 45
 Penticton
 eP_n 22 53 15.0
 eS_n 22 53 38.0
 D = 188 km

SEPTEMBER 19
 U. S. C. G. S.
 60.1S, 22.9W
 Sandwich Islands
 region
 H = 21 34 43.3
 h = 56 km
 Banff
 eP' 21 53 55
 Penticton
 eP' 21 53 56
 e 21 57 29
 Resolute
 eP' 21 54 09

SEPTEMBER 20
 U. S. C. G. S.
 3.6S, 150.9E
 New Britain
 H = 19 03 37.1
 h = 30 km
 Mag 6 1/2
 Banff
 eP 19 16 57
 Halifax
 eP' 19 22 48 c
 Ottawa
 eP' 19 22 33
 Penticton
 eP 19 16 44
 Resolute
 eP 19 17 18
 S? 19 28 43
 i 19 33 57
 PSPS? 19 35 39
 Shawinigan Falls
 eP' 19 22 35

SEPTEMBER 20
 H = 23 18 03
 Penticton
 eP₁ 23 18 13.4
 eS₁ 23 18 21.6
 D = 68 km

SEPTEMBER 21
 Banff
 eP 03 13 42

SEPTEMBER 21
 Penticton
 iP 03 18 26

SEPTEMBER 21
 Penticton
 eP 07 31 34

DOMINION OBSERVATORIES

SEPTEMBER 21

U. S. C. G. S.
26. 2S, 70. 8W
Off coast of
northern Chile
H = 18 19 15. 2
h = 18 km
Penticton
eP 18 32 01

SEPTEMBER 21

H = 23 10 55
Penticton
eP 23 11 48. 6
eS 23 12 25. 2
D = 300 km

SEPTEMBER 22

Canadian Arctic
H = 03 44 17. 6
Mag 2. 2
Resolute
P₁ 03 44 27. 5
S₁ 03 44 35. 0
D = 61. 5 km

SEPTEMBER 23

H = 00 06 19
Penticton
eP₁ 00 06 42. 1
eS₁ 00 06 59. 6
D = 143 km

SEPTEMBER 23

H = 00 08 12
Penticton
eP_n 00 08 51. 9
eS_n 00 09 25. 3
D = 273 km

SEPTEMBER 23

Penticton
eP 01 59 45

SEPTEMBER 23

U. S. C. G. S.
19. 8N, 155. 2W
Hawaii
H = 03 01 35. 7
h = 31 km
Banff
eP 03 09 45
Penticton
iP 03 09 19
Shawinigan Falls
eP 03 12 52
Victoria
eP 03 08 59

SEPTEMBER 23

U. S. C. G. S.
41. 7N, 131. 9E
Sea of Japan
H = 03 48 29. 9
h = 527 km
Penticton
iP 03 58 49

SEPTEMBER 23

48. 1°N, 124. 5°W
Washington, U. S. A.
H = 08 06 50
Mag 2. 1
Victoria
iP₁ 08 07 04. 1
iS₁ 08 07 15. 7
D = 96 km

SEPTEMBER 23

Banff
eP 09 38 55
Victoria
eP_n 09 39 16. 7

SEPTEMBER 23

Penticton
eP 23 02 01

SEPTEMBER 24

U. S. C. G. S.
18. 4N, 98. 6W
Mexico
H = 19 04 40. 7
h = 81 km
Banff
iP 19 11 29 d
Ottawa
eP 19 11 08 d
Penticton
iP 19 11 26 d
Resolute
eP 19 14 13
Shawinigan Falls
iP 19 11 28 d
Victoria
eP 19 11 35 d

SEPTEMBER 24

H = 21 32 47
Penticton
eP₁ 21 33 14. 4
eS₁ 21 33 35. 0
D = 168 km

SEPTEMBER 24

U. S. C. G. S.
33. 3N, 141. 3E
South of Japan
H = 21 40 58. 8
h = 93 km
Banff
eP 21 52 17
Penticton
iP 21 52 09 d
Resolute
eP 21 51 40
Victoria
eP 21 51 58

SEISMOLOGICAL BULLETIN - 1961

SEPTEMBER 24

Penticton
eP 23 13 20

SEPTEMBER 25

Penticton
eP 06 37 09

Victoria

eP_n 13 38 50.1
D = 310 km

SEPTEMBER 25

U.S.C.G.S.
60.3N, 153.0W

Alaska
H = 02 27 13.4
h = 125 km
Mag 5 3/4

Banff
eP 02 32 05

Halifax
eP 02 36 15

Ottawa
eP 02 35 27

Penticton
iP 02 31 57 d

Resolute
eP 02 32 28

i 02 36 59
i 02 39 27

Shawinigan Falls
eP 02 35 40

Victoria
eP 02 31 42 d

SEPTEMBER 25

U.S.C.G.S.
61.9N, 150.4W

Alaska
H = 20 22 44.9
h = 196 km

Resolute
eP 20 27 46

SEPTEMBER 27

U.S.C.G.S.
15.4S, 175.1W

Fiji Islands region
H = 00 46 38.4
h = 295 km

Penticton
iP 00 58 25

SEPTEMBER 25

U.S.C.G.S.
75.9N, 7.3E

Svalbard region
H = 21 12 41.0
h = 64 km

Resolute
eP 21 17 41

SEPTEMBER 27

U.S.C.G.S.
19.2N, 105.1W

Mexico
H = 01 55 31.9
h = 54 km

Penticton
eP 02 01 54

Victoria
eP 02 02 02

SEPTEMBER 25

U.S.C.G.S.
19.9N, 155.3W

Hawaii
H = 05 29 00.8
h = 82 km

Mag 5 3/4

Ottawa
eP 05 40 04

Penticton
iP 05 36 40

Resolute
eP 05 39 25

Shawinigan Falls
eP 05 40 12

SEPTEMBER 25

H = 21 47 58

Penticton
eP₁ 21 48 22.3
eS₁ 21 48 40.7
D = 150 km

SEPTEMBER 27

H = 06 35 26

Victoria
iP₁ 06 35 33.6
iS₁ 06 35 39.6
D = 50 km

SEPTEMBER 26

H = 12 15 47

Penticton
eP_n 12 16 27.0
eS_n 12 17 00.5
D = 274 km

SEPTEMBER 27

U.S.C.G.S.
17.4S, 178.7W

Fiji Islands
H = 06 34 03.7
h = 576 km

SEPTEMBER 26

H = 13 38 06

Penticton
iP_n 13 38 27.7
iS_n 13 38 44.5
D = 138 km

Banff

iP 06 45 57 c

Penticton

iP 06 45 41 c

Shawinigan Falls

eP' 06 51 41

Victoria

eP 06 45 29

DOMINION OBSERVATORIES

SEPTEMBER 27

Victoria
eP 07 14 37

SEPTEMBER 27

U. S. C. G. S.
52. 3N, 168. 7W
Fox Islands
H = 11 20 46. 8
h = 27 km
Banff
eP 11 27 19
Halifax
eP 11 31 28. 5
Ottawa
eP 11 30 36
Penticton
eP 11 27 04
Resolute
eP 11 27 51
Shawinigan Falls
eP 11 30 40
Victoria
eP 11 26 48

SEPTEMBER 27

U. S. C. G. S.
59. 4S, 24. 2W
Sandwich Islands
H = 12 07 39. 2
h = 110 km
Banff
eP' 12 26 44
Penticton
eP' 12 26 45
Resolute
eP' 12 26 56
i 12 30 05
Shawinigan Falls
eP' 12 26 07
Victoria
eP' 12 26 47

SEPTEMBER 27

H = 19 05 00. 2
Penticton
iP₁ 19 05 03. 7
iS₁ 19 05 06. 4
D = 22 km

SEPTEMBER 27

U. S. C. G. S.
52. 5N, 168. 7W
Fox Islands
H = 19 20 48. 6
h = 42 km
Halifax
eP 19 31 43?
Ottawa
eP 19 30 35
Penticton
eP 19 26 56
Resolute
eP 19 27 50
i 19 30 16
Shawinigan Falls
eP 19 30 41
Victoria
eP 19 26 47

SEPTEMBER 27

U. S. C. G. S.
52. 2N, 168. 7W
Fox Islands
H = 19 27 00. 7
h = 22 km
Halifax
eP 19 37 40. 5
Ottawa
eP 19 36 51
Penticton
eP 19 33 18
Resolute
eP 19 34 05
Shawinigan Falls
eP 19 36 56

SEPTEMBER 27

H = 20 20 54
Penticton
iP₁ 20 21 20. 9
iS₁ 20 21 41. 2
D = 166 km

SEPTEMBER 27

U. S. C. G. S.
26. 7N, 125. 0E
Ryukyu Islands
H = 21 06 56. 3
h = 17km
Penticton
eP 21 19 33
Resolute
eP 21 18 42 d

SEPTEMBER 28

Penticton
iP 00 01 30

SEPTEMBER 28

U. S. C. G. S.
3. 9S, 102. 0E
Sumatra
H = 01 23 59. 6
h = 78 km
Penticton
iP' 01 42 49
Resolute
eP' 01 42 22
Shawinigan Falls
eP' 01 43 17
Victoria
eP' 01 42 46

SEISMOLOGICAL BULLETIN - 1961

SEPTEMBER 28

U.S.C.G.S.
30.5N, 141.3E

South of Japan
H = 03 24 43.4
h = 125 km

Penticton
eP 03 36 02

Resolute
eP 03 35 38 d

Victoria
eP 03 35 53

SEPTEMBER 28

Halifax
eP 18 49 42

SEPTEMBER 28

U.S.C.G.S.
44.7N, 111.0W
Wyoming, U.S.A.
H = 18 50 09.3
h = 20 km

Penticton
eP 18 52 01

SEPTEMBER 29

Penticton
eP 00 10 01

SEPTEMBER 29

U.S.C.G.S.
13.8N, 94.0E
Andaman Islands
H = 08 45 26.9
h = 135 km
Alert, N.W.T.
iP 08 57 44 c

SEPTEMBER 28

U.S.C.G.S.
30.0N, 141.1E

South of Japan
H = 04 19 06.6
h = 75 km

Resolute
eP 04 30 137

SEPTEMBER 28

Penticton
iP 19 58 19

SEPTEMBER 28

U.S.C.G.S.
27.6N, 57.1E
Iran
H = 22 36 27.5
h = 56 km

Resolute
eP 22 48 127
Shawinigan Falls
eP 22 49 36

SEPTEMBER 29

U.S.C.G.S.
42.9N, 145.4E
Near coast of Japan
H = 16 50 32.9
h = 37 km

Banff
eP 17 00 59
Ottawa
eP 17 03 05
Resolute
iP 17 00 11 d
Shawinigan Falls
eP 17 03 06
Victoria
eP 17 00 39

SEPTEMBER 28

U.S.C.G.S.
36.5N, 70.7E
Hindu Kush
H = 05 00 43.0
h = 233 km

Penticton
eP 05 13 37

SEPTEMBER 28

H = 23 21 23
Penticton
iP₁ 23 21 44.2
iS₁ 23 22 00.3
D = 132 km

SEPTEMBER 29

Resolute
eP 18 25 25
e 18 26 27

SEPTEMBER 28

Resolute
eP 06 35 16

SEPTEMBER 28

Penticton
eP 11 23 19
Resolute
eP 11 24 12

SEPTEMBER 28

H = 23 27 16
Penticton
iP₁ 23 27 41.2
iS₁ 23 28 00.4
D = 157 km

SEPTEMBER 29

U.S.C.G.S.
0.5N, 122.4E
Celebes Islands
H = 19 06 13.4
h = 110 km
Halifax
eP' 19 25 45?
Shawinigan Falls
eP' 19 25 17

DOMINION OBSERVATORIES

SEPTEMBER 29

U. S. C. G. S.

1.7N, 79.3W

Near coast of
Colombia

H = 22 38 05.9

h = 60 km

Ottawa

iP 22 46 07 d

Penticton

eP 22 48 02

Resolute

eP 22 49 33

Shawinigan Falls

iP 22 46 20 d

Victoria

eP 22 48 11

SEPTEMBER 30

U. S. C. G. S.

40.6N, 141.9E

Near coast of
Japan

H = 13 13 06.9

h = 21 km

Alert, N. W. T.

iP 13 22 52 d

Resolute

eP 13 23 08

SEPTEMBER 30

Penticton

iP 18 57 57

SEPTEMBER 30

Resolute

eP 22 21 13

SEPTEMBER 30

U. S. C. G. S.

44.4N, 148.9E

Kurile Islands

H = 00 21 18.8

h = 49 km

Penticton

eP 00 31 12

SEPTEMBER 30

U. S. C. G. S.

25.3N, 124.8E

Ryukyu Islands

H = 01 36 41.5

h = 100 km

Alert, N. W. T.

P 01 48 01

Resolute

eP 01 48 38

SEPTEMBER 30

H = 06 49 51

Penticton

iP₁ 06 50 12.8

iS₁ 06 50 29.1

D = 132 km

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN THE CANADIAN ARCTIC

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

JULY 1 at 02 06 28 U.T. Magnitude 1.4. Originated 40 km from Resolute, N.W.T.

JULY 3 at 22 57 07 U.T. Magnitude 1.9. Originated 50 km from Resolute, N.W.T.

JULY 4 at 04 49 06 U.T. Magnitude 1.5. Originated 107 km from Resolute, N.W.T.

JULY 4 at 05 39 38 U.T. Magnitude 1.5. Originated 107 km from Resolute, N.W.T.

JULY 4 at 06 17 57 U.T. Magnitude 1.4. Originated 107 km from Resolute, N.W.T.

JULY 4 at 07 17 56 U.T. Magnitude 1.8. Originated 107 km from Resolute, N.W.T.

JULY 4 at 10 20 42 U.T. Magnitude 2.1. Originated 107 km from Resolute, N.W.T.

JULY 10 at 05 06 11 U.T. Magnitude 2.4. Originated 184 km from Resolute, N.W.T.

JULY 19 at 02 59 29 U.T. Magnitude 1.9. Originated 232 km from Resolute, N.W.T., at a depth of about 33 km

JULY 22 at 13 01 09 U.T. Magnitude 2.1. Originated 94 km from Resolute, N.W.T.

JULY 25 at 22 35 29 U.T. Magnitude 1.7. Originated 82 km from Resolute, N.W.T.

AUGUST 5 at 12 55 51 U.T. Magnitude 3.1. Originated 252 km from Resolute, N.W.T., at a depth of about 27 km.

AUGUST 15 at 12 26 09 U.T. Magnitude 5.3. Epicentre at $61^{\circ}\text{N}\pm 1^{\circ}$, $135^{\circ}\text{W}\pm 1^{\circ}$. Felt generally by the people of Whitehorse, Yukon Territory, Canada. Two distinct shocks reported by the Royal Canadian Mounted Police.

DOMINION OBSERVATORIES

AUGUST 16 at 07 51 45 U. T. Magnitude 3.2. Originated 312 km from Resolute, N. W. T.

SEPTEMBER 20 at 06 54 46 U. T. Magnitude 2.2. Originated 115 km from Resolute, N. W. T.

SEPTEMBER 22 at 03 44 18 U. T. Magnitude 2.2. Originated 62 km from Resolute, N. W. T.

SEISMOLOGICAL BULLETIN - 1961

EARTHQUAKES IN EASTERN CANADA
AND ADJACENT AREAS

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

JULY 5 at 22 43 44 U. T. Magnitude 5. Epicentre $50^{\circ}18'N \pm 15'$, $66^{\circ}43'W \pm 10'$. About 20 miles northwest of Sept-Iles, Quebec. Felt most strongly in the northwest portion of Sept-Iles. It was also felt at Moisie, Port Cartier, and in the Moisie River Valley, as well as along the railway north to Tika at mile 57. It was not reported felt at Matane on the south shore of the St. Lawrence River.

AUGUST 22 at 18 55 51 U. T. Magnitude 3.4. Epicentre at $47^{\circ}20'N \pm 20'$, $70^{\circ}30'W \pm 30'$. On the St. Lawrence River south of Ile-aux-Coudres, Quebec.

SEPTEMBER 12 at 09 54 23 U. T. Magnitude 2.8. Epicentre at $45^{\circ}12'N \pm 10'$, $75^{\circ}15'W \pm 10'$. About 27 miles southeast of Ottawa. Felt at South Mountain, Ontario and vicinity. This is the same location as the earthquake on March 13 at 10 55 45 U. T.

DOMINION OBSERVATORIES

EARTHQUAKES IN WESTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the third 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 station in Montana, U.S.A., and from temporary stations in Canada were used to compute epicentres. The quality (Q) of the epicentre is indicated by a letter a, b, c, or d ranging from "a" meaning an excellent fit of the observed data to "d" meaning a very poor solution.

JULY 1 at 08 59 59 U. T. Magnitude 2.2. Epicentre at 47.9°N, 123.7°W, Olympic Mountain region, U.S.A. Q:c

JULY 1 at 09 24 36 U. T. Magnitude 2.3. Epicentre at 47.8°N, 123.8°W, Olympic Mountain region, U.S.A. Q:c

JULY 2 at 07 28 28 U. T. 338 km from Penticton.

JULY 2 at 16 54 03 U. T. 95 km from Alberni and 160 km from Victoria.

JULY 4 at 03 04 41 U. T. 280 km from Penticton.

JULY 6 at 13 58 21 U. T. 84 km from Victoria.

JULY 7 at 19 08 05 U. T. 252 km from Penticton.

JULY 7 at 22 51 22 U. T. 174 km from Penticton.

JULY 8 at 05 49 15 U. T. 60 km from Alberni, and 152 km from Victoria.

JULY 8 at 20 21 06 U. T. 243 km from Penticton.

JULY 8 at 23 58 58 U. T. 59 km from Alberni, and 162 km from Victoria.

JULY 9 at 07 44 49 U. T. Magnitude 2.7. Epicentre at 48°32'N, 122°25'W, near Anacortes, Washington, U.S.A. Q:a

JULY 10 at 18 41 30 U. T. 166 km from Penticton.

JULY 11 at 09 54 14 U. T. 78 km from Alberni.

JULY 11 at 23 53 06 U. T. 364 km from Penticton.

JULY 12 at 07 56 43 U. T. 107 km from Victoria and 90 km from Alberni.

SEISMOLOGICAL BULLETIN - 1961

- JULY 14 at 00 06 21 U. T. 50 km from Victoria.
- JULY 15 at 20 46 31 U. T. 222 km from Victoria.
- JULY 16 at 01 40 51 U. T. Magnitude 2.8. Epicentre at 49°44'N, 124°55'W, near Texada Island. Q:c.
- JULY 24 at 10 39 23.7 U. T. Magnitude 3.9. Epicentre at 50.6°N, 128.9°W, h = 25 km, Vancouver Island region. (U. S. C. G. S. epicentre).
- JULY 25 at 02 33 21 U. T. Magnitude 3.2. Epicentre at 49.6°N, 114.4°W, Crowsnest Pass area. Q:b.
- JULY 25 at 22 38 32 U. T. 146 km from Penticton.
- JULY 28 at 14 52 54 U. T. Magnitude 3.1. Epicentre at 45.9°N, 122.6°W. Northeast of Portland, Oregon, U. S. A.
- JULY 28 at 22 48 02.8 U. T. 188 km from Penticton.
- JULY 30 at 01 57 52 U. T. Magnitude 2.1. Epicentre at 50.8°N, 119.9°W, possibly near Kamloops. Q:c.
- JULY 31 at 23 29 49.8 U. T. 145 km from Penticton.
- AUGUST 2 at 19 06 23 U. T. 148 km from Penticton.
- AUGUST 2 at 21 54 32 U. T. 160 km from Penticton.
- AUGUST 3 at 02 16 43 U. T. 182 km from Victoria, and 174 km from Penticton.
- AUGUST 3 at 19 42 32 U. T. 200 km from Penticton.
- AUGUST 3 at 21 31 08 U. T. 146 km from Penticton, and 292 km from Victoria. Epicentre probably north west of Merritt, B. C.
- AUGUST 3 at 21 43 30 U. T. 278 km from Penticton.
- AUGUST 3 at 21 59 09 U. T. 41 km from Banff.
- AUGUST 5 at 01 33 12.2 U. T. Magnitude 3.3. 49.4°N, 129.0°W, near coast of Vancouver Island. (U. S. C. G. S. epicentre).
- AUGUST 7 at 16 30 20 U. T. 262 km from Penticton.
- AUGUST 8 at 18 23 02 U. T. 160 km from Penticton.

DOMINION OBSERVATORIES

- AUGUST 9 at 19 26 37.5 U. T. 134 km from Penticton.
- AUGUST 9 at 22 21 41 U. T. 160 km from Penticton.
- AUGUST 10 at 23 01 41 U. T. 165 km from Penticton possibly near Merritt.
- AUGUST 14 at 22 52 40 U. T. 190 km from Penticton.
- AUGUST 15 at 19 07 14 U. T. 200 km from Penticton.
- AUGUST 19 at 04 56 12 U. T. Magnitude 4.3. Epicentre at 49.8°N, 130.0°W, near coast of Vancouver Island. Q:c.
- AUGUST 21 at 03 26 02 U. T. Magnitude 2.3. Epicentre at 48°45'N, 122°44'W, Gulf Islands, U.S.A. Q:a.
- AUGUST 21 at 20 01 51 U. T. 150 km from Penticton.
- AUGUST 21 at 21 26 42 U. T. 200 km from Penticton.
- AUGUST 22 at 19 41 16 U. T. Magnitude 2.6. Epicentre at 49°22'N, 123°37'W, in the Strait of Georgia. Q:a.
- AUGUST 22 at 22 47 54 U. T. 150 km from Penticton.
- AUGUST 22 at 23 00 56 U. T. 140 km from Penticton.
- AUGUST 23 at 01 22 22 U. T. 140 km from Penticton.
- AUGUST 25 at 19 01 02 U. T. 169 km from Penticton.
- AUGUST 25 at 22 53 02 U. T. 152 km from Penticton.
- AUGUST 26 at 01 07 15 U. T. 216 km from Penticton.
- AUGUST 26 at 17 01 01 U. T. 138 km from Penticton.
- AUGUST 27 at 02 23 16 U. T. 30 km from Victoria.
- AUGUST 30 at 22 43 42 U. T. 151 km from Penticton.
- SEPTEMBER 2 at 23 22 33 U. T. 162 km from Victoria.
- SEPTEMBER 3 at 01 38 34 U. T. 173 km from Penticton.
- SEPTEMBER 4 at 20 00 00 U. T. Magnitude 2.7. Epicentre at 47°32'N, 122°57'W, in Puget Sound, Washington, U.S.A. Q:b.

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- SEPTEMBER 5 at 18 43 42 U. T. 150 km from Penticton.
- SEPTEMBER 6 at 21 07 30 U. T. 139 km from Penticton.
- SEPTEMBER 7 at 18 11 17 U. T. Magnitude 2.0. Epicentre at 48°09'N, 122°56'W, Washington, U.S.A. Q:b.
- SEPTEMBER 8 at 01 27 28 U. T. 152 km from Victoria.
- SEPTEMBER 8 at 04 52 10.3 U. T. Magnitude 5. Epicentre at 51.8°N, 131.2°W near the Queen Charlotte Islands. (U.S.C.G.S. epicentre).
- SEPTEMBER 8 at 21 30 12 U. T. 462 km from Penticton.
- SEPTEMBER 10 at 01 28 16 U. T. 285 km from Penticton.
- SEPTEMBER 12 at 20 11 58 U. T. 142 km from Penticton.
- SEPTEMBER 12 at 22 11 48 U. T. 366 km from Penticton.
- SEPTEMBER 12 at 22 25 00 U. T. 144 km from Penticton.
- SEPTEMBER 13 at 13 54 46 U. T. 293 km from Penticton.
- SEPTEMBER 14 at 18 38 40 U. T. 152 km from Penticton.
- SEPTEMBER 14 at 22 14 17 U. T. 138 km from Penticton.
- SEPTEMBER 14 at 22 52 30 U. T. 135 km from Penticton.
- SEPTEMBER 15 at 19 57 33 U. T. 294 km from Penticton.
- SEPTEMBER 16 at 03 25 00.3 U. T. Epicentre at 45.9°N, 121.9°W
h = 37 km. Southern Washington, U.S.A.
- SEPTEMBER 16 at 06 47 00.6 U. T. Magnitude 2.8. Aftershock of
previous Washington, U.S.A.
- SEPTEMBER 16 at 06 50 19.8 U. T. Magnitude 2.9. Aftershock of
previous Washington, U.S.A.
- SEPTEMBER 16 at 11 46 04.5 U. T. Magnitude 3.2. at 46°11'N,
122°17'W, Washington, U.S.A.
- SEPTEMBER 17 at 15 56 01 U. T. 265 km from Victoria.
- SEPTEMBER 18 at 02 25 19.3 U. T. Epicentre at 48.8°N, 128.9°W,
west of Vancouver Island. (U.S.C.G.S. epicentre).

DOMINION OBSERVATORIES

- SEPTEMBER 18 at 02 29 08 U. T. 207 km from Alberni.
- SEPTEMBER 18 at 12 32 38 U. T. 262 km from Alberni.
- SEPTEMBER 18 at 19 29 06 U. T. 45 km from Victoria, and 116 km from Alberni.
- SEPTEMBER 18 at 21 35 17.2 U. T. Vancouver Island region (U. S. C. G. S. epicentre)
- SEPTEMBER 20 at 22 18 33 U. T. 144 km from Penticton.
- SEPTEMBER 20 at 22 50 12 U. T. 141 km from Penticton.
- SEPTEMBER 20 at 22 52 45 U. T. 188 km from Penticton.
- SEPTEMBER 20 at 23 18 03 U. T. 68 km from Penticton.
- SEPTEMBER 21 at 23 10 55 U. T. 300 km from Penticton.
- SEPTEMBER 23 at 00 06 19 U. T. 143 km from Penticton.
- SEPTEMBER 23 at 00 08 12 U. T. 273 km from Penticton.
- SEPTEMBER 23 at 08 06 50 U. T. Magnitude 2.1. Epicentre at 48.1°N, 124.5°W, Olympic Mountains, Washington, U. S. A. G:c.
- SEPTEMBER 24 at 21 32 47 U. T. 168 km from Penticton.
- SEPTEMBER 25 at 21 47 58 U. T. 150 km from Penticton.
- SEPTEMBER 26 at 12 15 47 U. T. 274 km from Penticton.
- SEPTEMBER 26 at 13 38 06 U. T. 138 km from Penticton, and 310 km from Victoria.
- SEPTEMBER 27 at 06 35 26 U. T. 50 km from Victoria.
- SEPTEMBER 27 at 19 05 00.2 U. T. 22 km from Penticton.
- SEPTEMBER 27 at 20 20 54 U. T. 166 km from Penticton.
- SEPTEMBER 28 at 23 21 23 U. T. 132 km from Penticton.
- SEPTEMBER 28 at 23 27 16 U. T. 157 km from Penticton.
- SEPTEMBER 30 at 06 49 51 U. T. 132 km from Penticton.