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SEISMOLOGICAL SERIES

of the

DOMINION OBSERVATORY

Seismological Bulletin
July - September
1960

Seismological Service
of Canada

OTTAWA, CANADA

Department of Mines and Technical Surveys

DOMINION OBSERVATORIES

1961

SEISMOLOGICAL BULLETIN - 1960

July - September - 1960

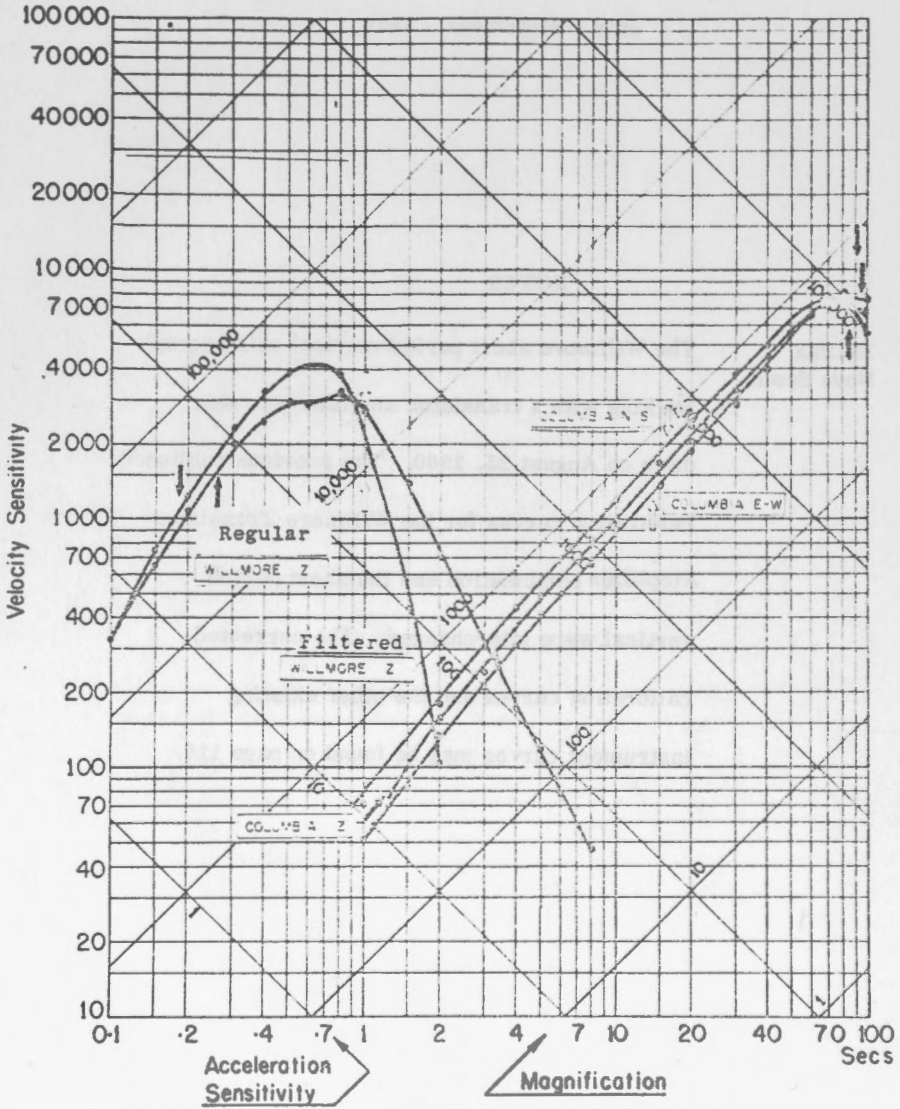
NOTES

Halifax
Nova Scotia

The Willmore short period vertical seismograph working with a transistor amplifier was shut down on August 25, 1960. The previous published calibration curves for the Willmore Transistor Amplifier combination and the short period vertical were interchanged. The corrected calibration curves and the other existing instrument curves may be found on page 110.

CALIBRATION CURVES

STATION: HALIFAX



$\phi = 44^{\circ}38'N$

$\lambda = 68^{\circ}36'W$

Altitude 56 M

Foundation : Carbonaceous slate

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: June 1960

Columbia LP-EW June 10/60
 Columbia LP-NS June 10/60
 Columbia LP Z June 17/60

Regular Willmore SPZ - June 3/60
 Filtered Willmore SPZ - June 6/60

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JULY 1
Resolute
P 05 05 17

Seven Falls
eP 04 39 48
Shawinigan Falls
eP 04 39 45 d

Shawinigan Falls
eP 03 29 33

JULY 1
U. S. C. G. S.
56N, 165E
Komandorskie Islands
H = 07 58 58
Ottawa
eP 08 09 58
Resolute
P 08 06 29
S 08 12 28
Seven Falls
eP 08 10 00 c
Shawinigan Falls
eP 08 10 00
Victoria
eP 08 06 54

JULY 2
U. S. C. G. S.
56S, 27W
Sandwich Islands
H = 11 55 41
Halifax
P' 12 14 11
Ottawa
eP' 12 14 41
Resolute
P' 12 14 52
i 12 17 51
Seven Falls
eP' 12 14 41
Shawinigan Falls
eP' 12 14 42 d
Victoria
eSKP 12 18 06

JULY 3
U. S. C. G. S.
52N, 173W
Andreanof Islands
H = 05 16 08
Shawinigan Falls
eP 05 26 22

JULY 1
Resolute
P 12 33 17 d

JULY 2
U. S. C. G. S.
41N, 131 1/2E
Sea of Japan
H = 12 44 21
h = 550 km
Alberni
eP 12 54 28
Resolute
eP 12 53 40 c
Victoria
eP 12 54 31

JULY 3
U. S. C. G. S.
52N, 173 1/2W
Andreanof Islands
H = 07 16 14
Halifax
P 07 27 06.5
Ottawa
eP 07 26 25
Shawinigan Falls
eP 07 26 29 d

JULY 1
U. S. C. G. S.
11 1/2N, 142 1/2E
Mariana Islands
H = 17 40 38
h = 60 km
Resolute
P 17 53 21

JULY 3
48.7N, 123.2W
North San Juan Island
H = 11 02 31.5
Alberni
iP 11 02 55.7
iS 11 03 12.7
Victoria
iP 11 02 34.0
iS 11 02 37.3

JULY 2
U. S. C. G. S.
51 1/2N, 173 1/2W
Andreanof Islands
H = 04 29 30
Halifax
eP 04 40 23
Ottawa
eP 04 39 40
Resolute
P 04 36 58

JULY 3
U. S. C. G. S.
52N, 174W
Andreanof Islands
H = 03 19 19
Halifax
P 03 30 11
Ottawa
eP 03 29 29

JULY 3
Alberni
iP 19 51 54

JULY 3
U. S. C. G. S.
50 1/2N, 177W
Andreanof Islands
H = 20 20 46
Banff
iP 20 28 20 d

DOMINION OBSERVATORIES

Halifax iP 20 31 55.5	JULY 4 U. S. C. G. S. 52N, 131 1/2W	JULY 4 U. S. C. G. S. 52N, 131W
Ottawa iP 20 31 15 d	Queen Charlotte Islands H = 04 28 33	Queen Charlotte Islands H = 08 51 20
Seven Falls eP 20 31 21 d	Mag 6 1/2	Alberni iP 08 52 29.2
Shawinigan Falls iP 20 31 19 d	Alberni iP 04 29 46.6	Banff iP 08 54 00 eS 08 56 30
JULY 3 Ottawa eP 21 00 15	Halifax P 04 36 46	Resolute P 08 57 05 S 09 01 48
Seven Falls eP 21 00 10	Ottawa eP 04 35 42	Victoria eP 08 52 52 eS 08 54 26
Shawinigan Falls eP 21 00 14	Resolute P 04 34 19	
JULY 3 U. S. C. G. S. 50 1/2N, 177W	iS 04 39 00	JULY 4 Ottawa eP 09 10 23
Andreanof Islands H = 22 52 24	Seven Falls eP 04 35 58	
Resolute P 23 00 04	Shawinigan Falls eP 04 35 54	
JULY 3 Banff iP 23 30 00 c	Victoria iP 04 30 02.6	
JULY 3 Resolute P 23 57 32	JULY 4 Resolute P 07 46 45	JULY 4 U. S. C. G. S. 52N, 130 1/2W
JULY 4 Resolute eP 04 19 56 c	JULY 4 52N, 131W	Queen Charlotte Islands H = 11 13 17 h = 600 km
	Queen Charlotte Islands H = 08 11 50.4	Victoria eP 11 15 04 eS 11 16 31
	Alberni iP 08 12 47.9	
	Victoria eP 08 13 21	JULY 4 52N, 131W
	JULY 4 U. S. C. G. S. 8S, 71W	Queen Charlotte Islands H = 12 51 47
	Western Brazil H = 08 02 07	Alberni iP 12 52 58.7
	Resolute P 08 13 39	Banff eP 12 54 30 eS 12 57 10
		Victoria eP 12 53 20 eS 12 54 46

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JULY 4

U.S. C. G. S.
52N, 171W
Queen Charlotte Islands
H = 13 10 05
Mag 6
Alberni
iP 13 11 17.2
Banff
iP 13 12 50
eS 13 15 30 d
Resolute
P 13 15 53
S 13 20 32
Seven Falls
eP 13 17 30
Shawinigan Falls
eP 13 17 25
Victoria
eP 13 11 37
eS 13 13 03

JULY 4

Victoria
eP 18 15 07

JULY 4

52N, 132W
Queen Charlotte Islands
H = 18 21 53.4
Alberni
eP 18 23 13
eS 18 24 25
Penticton
eP 18 23 51
eS 18 25 36
Victoria
eP 18 23 27
e- 18 24 40
eS 18 24 55

JULY 4

Ottawa
eP 21 42 13
Shawinigan Falls
eP 21 42 20

JULY 5

Resolute
P 01 42 10

JULY 5

U.S. C. G. S.
51 1/2N, 178 1/2W
Andreanof Islands
H = 05 07 59
Penticton
iP 05 15 06 d
Resolute
P 05 15 29
i 05 17 36
Shawinigan Falls
eP 05 18 29
Victoria
eP 05 14 52 c ?

JULY 5

Resolute
eP 05 21 21 c

JULY 5

U.S. C. G. S.
39S, 73 1/2W
Near coast of Chile
H = 05 45 26
Shawinigan Falls
eP 05 58 03

JULY 5

Resolute
P 17 18 20

JULY 5

Victoria
iP 18 37 05

JULY 5

U.S. C. G. S.
8S, 71 1/2W
Western Brazil
H = 21 15 09
h = 600 km
Halifax
iP 21 23 35 (c)
Ottawa
eP 21 23 38 c
Resolute
P 21 26 42
Seven Falls
eP 21 23 49

JULY 6

U.S. C. G. S.
36 1/2N, 70 1/2E
Hindu Kush region
H = 05 16 44
h = 200 km
Ottawa
eP 05 29 39
Penticton
iP 05 29 44 d
Resolute
iP 05 27 30 c
i 05 28 40
S 05 36 16
Victoria
eP 05 29 46

JULY 6

San Juan Island or
Race Rocks area
H = 07 03 51.2
Victoria
iP 07 03 56.4
iS 07 04 00.4
D = 32 km

DOMINION OBSERVATORIES

JULY 7		Resolute	JULY 9
Shawinigan Falls		P 10 16 32	Resolute
eP 16 00 05		Shawinigan Falls	P 02 18 21
		eP 10 19 27 c	Shawinigan Falls
			eP 02 15 35
JULY 7		JULY 8	JULY 9
Halifax		U. S. C. G. S.	46°18'N, 73°02'W
P 17 50 14		31N, 130 1/2E	About 18 miles east
Ottawa		Near south coast of	of St. Gabriel, Que.
iP 17 50 15 d		Kyushu, Japan	H = 07 39 59.1
Shawinigan Falls		H = 12 51 21	Mag 2.6
eP 17 50 21		Resolute	Montreal
		iP 13 02 36 c	P ₁ 07 40 14.8
		Victoria	S ₁ 07 40 27.0
		iP 13 03 17 c	D = 100 km
JULY 7			Ottawa
San Juan Island area ?		JULY 8	P ₁ 07 40 36.5
Race Rocks area ?		Resolute	S ₁ 07 41 04.8
H = 20 59 10		P 13 44 34	D = 232 km
Victoria			Seven Falls
iP 20 59 19.2 c			P ₁ 07 40 28.1
iS 20 59 22.4			S ₁ 07 40 51.6
D = 26 km			D = 193 km
			Shawinigan Falls
JULY 7		JULY 8	P ₁ 07 40 07.0
U. S. C. G. S.		U. S. C. G. S.	S ₁ 07 40 11.3
39S, 73W		7S, 129E	D = 35.3 km
Near coast of Chile		Banda Sea	
H = 21 40 57		H = 14 44 40	
Ottawa		Resolute	
iP 21 53 31		P 14 59 04	
Seven Falls			
eP 21 53 41		JULY 8	JULY 9
Shawinigan Falls		Resolute	Resolute
eP 21 53 35		P 16 58 56	P 08 23 15
JULY 7		JULY 9	JULY 9
Victoria		Resolute	Resolute
iP 23 35 34 c		P 00 54 21	P 18 06 55
JULY 8		JULY 9	JULY 9
U. S. C. G. S.		U. S. C. G. S.	Canadian Arctic
52N, 174 1/2W		25 1/2N, 125 1/2E	H = 19 23 08.6
Andreanof Islands		Ryukyu Islands	Mag 2.2
H = 10 09 11		H = 00 42 29	Resolute
Ottawa		Resolute	iP ₁ 19 23 27
iP 10 19 24 c		P 00 54 21	i 19 23 32.5
			iS ₁ 19 23 41
			D = 115 km

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JULY 9
 41N, 21E
 Southern Yugoslavia
 H = 22 42 50
 Resolute
 P 22 52 40

JULY 9
 Resolute
 P 23 33 00

JULY 10
 U. S. C. G. S.
 0. 93E
 Off west coast of
 Sumatra
 H = 00 05 18
 Resolute
 P 00 19 28
 i 00 30 04
 Seven Falls
 eP' 00 24 36
 Shawinigan Falls
 eP' 00 24 40

JULY 10
 U. S. C. G. S.
 12 1/2N, 86W
 Near coast of
 Nicaragua
 H = 13 39 55
 h = 150 km
 Ottawa
 eP 13 46 33
 Resolute
 P 13 50 06
 S 13 58 24
 Seven Falls
 eP 13 46 57
 Shawinigan Falls
 eP 13 46 49 c

JULY 10
 Resolute
 P 14 00 13

JULY 10
 Resolute
 P 20 00 10

JULY 10
 U. S. C. G. S.
 53 1/2S, 134E
 South of Australia
 H = 20 22 51
 Resolute
 P' 20 42 55

JULY 10
 San Juan Island area ?
 Race Rocks area ?
 H = 23 27 44.0
 Victoria
 eP 23 27 48.3 d ?
 eS 23 27 51.6
 D = 27 km

JULY 11
 H = 01 31 34.8
 Victoria
 iP 01 31 48.0
 iS 01 31 58.1
 D = 83 km

JULY 11
 U. S. C. G. S.
 38S, 75W
 Off coast of Chile
 H = 06 58 28
 Ottawa
 iP 07 10 57 c
 Seven Falls
 eP 07 11 06
 Shawinigan Falls
 eP 07 11 03

JULY 11
 U. S. C. G. S.
 54S, 140 1/2E
 South of Australia
 H = 07 33 32
 Resolute
 P' 07 53 25

JULY 11
 U. S. C. G. S.
 51 1/2N, 173W
 Andreanof Islands
 H = 11 54 16
 Halifax
 P 12 05 10
 Ottawa
 iP 12 04 29 d
 Seven Falls
 eP 12 04 36 d
 Shawinigan Falls
 eP 12 04 33 d

JULY 11
 U. S. C. G. S.
 16S, 172W
 Tonga Islands region
 H = 11 55 10
 Mag 6 1/4
 Banff
 iP 12 07 54
 Resolute
 P 12 09 06
 Victoria
 iP 12 07 09 d

JULY 11
 Penticton
 eP 19 45 12

JULY 11
 H = 21 59 43
 Penticton
 P₁ 22 00 08.4
 S₁ 22 00 27.7
 D = 158 km

DOMINION OBSERVATORIES

JULY 12	JULY 13	JULY 13
H = 05 24 03.6	Banff	U. S. C. G. S.
Penticton	iP 07 29 56	17N, 94 1/2W
iP 05 24 17.5 c	Penticton	Oaxaca, Mexico
eS 05 24 28.1	eP 07 29 24	H = 16 23 56
D = 87 km		h = 150 km
		Banff
		eP 16 31 20
		iS 16 31 48
JULY 12	JULY 13	Halifax
48.4N, 125.0W	U. S. C. G. S.	P 16 31 35.5
Off west coast	53 1/2S, 1 1/2E	Ottawa
H = 13 22 11.4	Bouvet Island region	iP 16 30 15 c
Alberni	H = 07 55 54	Penticton
iP 13 22 27.6	Penticton	eP 16 30 59
Penticton	eP' 08 15 04	i 16 31 33
eP(?) 13 22 57.6	e 08 15 34	Resolute
Victoria	Resolute	P 16 33 36
iP 13 22 30.7	P' 08 15 34	i 16 34 05
iS 13 22 45.4	i 08 27 40	S 16 41 22
	Victoria	Seven Falls
	eP' 08 15 44	eP 16 31 15
		Shawinigan Falls
		eP 16 30 34
		Victoria
		eP 16 31 12
JULY 12	JULY 13	JULY 13
U. S. C. G. S.	U. S. C. G. S.	Shawinigan Falls
41N, 142E	Greece	eP 21 01 35
Off coast of northern	H = 10 20 25	
Honshu, Japan	Resolute	
H = 17 00 25	P 10 30 26	
Resolute	Shawinigan Falls	
eP 17 10 25 c	eP 10 31 18	
JULY 12	JULY 13	JULY 13
Resolute	U. S. C. G. S.	JULY 13
P 18 09 18	41N, 23 1/2E	U. S. C. G. S.
	Greece	9 1/2S, 75W
	H = 13 01 00	Central Peru
	Halifax	H = 21 45 09
	iP 13 11 18 c	h = 150 km
	Ottawa	Shawinigan Falls
	eP 13 12 04	eP 21 54 32
	Resolute	iP _c P 21 55 07
	P 13 10 56	
	Seven Falls	
	eP 13 11 39	
	Shawinigan Falls	
	eP 13 11 48	
JULY 13		
U. S. C. G. S.		
42 1/2N, 143E		
Near south coast of		
Hokkaido, Japan		
H = 02 30 18		
Banff		
iP 02 41 14 d		
Resolute		
iP 02 40 05 c		

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JULY 14

U. S. C. G. S.
5N, 127 1/2E
Molucca Passage
H = 10 26 58
Halifax
P' 10 46 12
Ottawa
iP' 10 46 05 c
Resolute
P 10 40 31
Seven Falls
eP' 10 46 04 c
Shawinigan Falls
eP' 10 46 04

JULY 14

Penticton
iP 11 26 46

JULY 14

Resolute
i 19 04 06

JULY 14

U. S. C. G. S.
36N, 70E
Hindu Kush
H = 22 11 06
h = 100 km
Resolute
P 22 22 06

JULY 15

Penticton
eP 12 01 03

JULY 15

Penticton
iP 12 07 22 c

JULY 15

H = 21 07 09.7
Mag 2 3/4
Victoria
eP 21 07 51.8
iS 21 08 27.3
D = 290 km

JULY 15

Halifax
P 23 48 17
Shawinigan Falls
eP 23 48 59

JULY 16

U. S. C. G. S.
21 1/2S, 67W
Southern Bolivia
H = 04 44 34
h = 150 km
Halifax
iP 04 55 23 c
Seven Falls
iP 04 55 27 c
Shawinigan Falls
eP 04 55 25

JULY 16

49.7N, 124.5W
Texada Island
Mine Blast
H = 05 16 30.2
Alberni
iP 05 16 38.2
iS 05 16 44.3

JULY 16

U. S. C. G. S.
21 1/2N, 143E
Mariana Island region
H = 17 17 44
h = 300 km
Resolute
iP 17 29 10 c

JULY 16

U. S. C. G. S.
65 1/2N, 167 1/2W
Seeward Peninsula
Alaska
H = 21 19 37
Ottawa
eP 21 28 36
Resolute
eP 21 24 58 d
S 21 29 16
Shawinigan Falls
eP 21 28 40

JULY 16

U. S. C. G. S.
65 1/2N, 167 1/2W
Seeward Peninsula
Alaska
H = 22 02 53
Ottawa
eP 22 11 53
Resolute
P 22 08 15
S 22 12 32
Shawinigan Falls
eP 22 11 58

JULY 17

Resolute
P 02 06 45

JULY 17

U. S. C. G. S.
12N, 125 1/2E
Samar Philippine
Islands
H = 02 15 07

Resolute
P 02 28 07

JULY 17

Resolute
P 04 58 28

DOMINION OBSERVATORIES

JULY 17

U. S. C. G. S.
36N, 69E
Hindu Kush
H = 05 14 56
h = 200 km
Resolute
P 05 25 44
S 05 34 46

JULY 17

H = 07 11 50.8
Mag 1 1/2
Banff
iP 07 11 55.8 c
iS 07 11 59.6
D = 31 km

JULY 18

U. S. C. G. S.
Nicobar Islands
H = 00 53 54
Resolute
P 01 07 33

JULY 18

U. S. C. G. S.
4 1/2S, 151E
New Britain region
H = 01 43 29
h = 200 km
Banff
eP 01 56 38 d ?
Halifax
P' 02 02 22
Ottawa
eP' 02 02 08
Resolute
P 01 57 01
Seven Falls
eP' 02 02 12
Shawinigan Falls
eP' 02 02 10 d
Victoria
eP 01 56 13 c

JULY 18

U. S. C. G. S.
56N, 111E
Lake Baikal U. S. S. R.
H = 04 40 54
Resolute
P 04 49 38

JULY 18

H = 09 46 29.8
Victoria
eP 09 47 07.2 d ?
eS 09 47 38.1
D = 253 km

JULY 18

Penticton
eP 23 21 48

JULY 18

H = 23 23 09.1
Mag 2
Penticton
iP 23 23 17.5 d
iS 23 23 23.0
D = 52 km

JULY 19

U. S. C. G. S.
1N, 87 1/2W
Galapagos, Islands
region
H = 02 42 30
Ottawa
eP 02 50 52
Resolute
P 02 54 11
Seven Falls
eP 02 51 13
Shawinigan Falls
eP 02 51 06

JULY 19

U. S. C. G. S.
7S, 80W
Near coast of Peru
H = 04 19 14
Banff
eP 04 29 58
Halifax
eP 04 28 37
Ottawa
eP 04 28 26
Penticton
eP 04 30 01
Resolute
P 04 31 34
Seven Falls
eP 04 28 43
Shawinigan Falls
iP 04 28 38 d
Victoria
eP 04 30 08 c

JULY 19

U. S. C. G. S.
16 1/2N, 92 1/2W
Chiapas Mexico
H = 16 03 18
Banff
eP 16 10 34
e 16 11 17
Ottawa
eP 16 09 33
Penticton
iP 16 10 36
e 16 11 20
Resolute
P 16 13 44
i 16 20 41
i 16 22 06
Shawinigan Falls
eP 16 10 25
i 16 10 39
Victoria
eP 16 10 40 c

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JULY 19
 U.S. C. G. S.
 13 1/2N, 146E
 Marlana Islands
 H = 18 29 31
 h = 100 km
 Penticton
 eP 18 41 49
 Resolute
 P 18 41 59

JULY 20
 H = 02 12 13.0
 Mag 1 1/2
 Penticton
 iP 02 12 41.1 d
 iS 02 12 55.2
 D = 178 km

JULY 20
 H = 06 54 13.4
 Mag 1 1/2
 Alberni
 iP 06 54 18.2
 iS 06 54 21.9
 D = 30 km

JULY 20
 U.S. C. G. S.
 49N, 157E
 Kurile Islands region
 H = 09 30 38
 Banff
 iP 09 39 54 c
 Halifax
 iP 09 42 51 c
 Ottawa
 iP 09 42 22 d
 Penticton
 iP 09 39 47 c
 Resolute
 iP 09 39 19 d
 S 09 46 12
 Seven Falls
 eP 09 42 24

Shawinigan Falls
 iP 09 42 24 d
 Victoria
 iP 09 39 35 c

JULY 20
 U.S. C. G. S.
 20 1/2S, 169E
 New Hebrides Islands
 H = 20 59 25
 h = 200 km

Halifax
 iP' 21 18 18 c
 Ottawa
 iP' 21 18 01 c
 Penticton
 eP 21 12 24 d
 Resolute
 P' 21 17 40
 Seven Falls
 iP' 21 18 07 c
 Shawinigan Falls
 eP' 21 18 05

JULY 20
 H = 21 38 17.5
 Mag 2 1/2
 Penticton
 eP 21 38 45
 iS 21 39 06
 D = 172 km

JULY 20
 U.S. C. G. S.
 Southern Chile
 H = 21 38 20
 Ottawa
 eP 21 50 51 d
 Shawinigan Falls
 eP 21 50 55

JULY 21
 H = 00 20 49.7
 Mag 2 1/2
 Penticton
 iP 00 21 19.1 d
 e 00 21 20.6
 iS 00 21 41.9
 D = 186 km

JULY 21
 Penticton
 iP 05 16 54 d ?

JULY 21
 Resolute
 P 05 17 59

JULY 21
 Penticton
 eP 08 08 46

JULY 21
 Penticton
 eP 08 35 47 c ?

JULY 21
 Resolute
 P 08 41 38

JULY 21
 H = 19 09 55.5
 Mag 3
 Penticton
 iP 19 10 28.1
 iS 19 10 54.1
 D = 213 km

DOMINION OBSERVATORIES

JULY 21
 Resolute
 P 20 05 05

JULY 21
 U. S. C. G. S.
 27N, 142 1/2E
 Bonin Islands
 H = 20 51 20
 Resolute
 P 21 02 43

JULY 22
 H = 07 18 05.4
 Mag 4 1/4
 Penticton
 iP 07 18 56.8 c
 iS 07 19 41.6
 D = 367 km

JULY 22
 Penticton
 iP 11 20 08 c

JULY 22
 H = 14 22 44
 Mag 2 3/4
 Penticton
 iP 14 23 11.3 c
 iS 14 23 32.3
 D = 172 km

JULY 22
 Penticton
 eP 21 28 53
 e 21 29 29

JULY 22
 H = 23 45 45.9
 Mag 1 1/2
 Victoria
 eP 23 46.03.0
 eS 23 46 16.1
 D = 108 km

JULY 23
 Penticton
 eP 04 14 44

JULY 23
 45°43'N, 73°40'W
 About 15 miles north
 of Montreal, Quebec
 H = 05 49 06.5
 Mag 2.9
 Montreal
 P₁ 05 49 10.6
 S₁ 05 49 13.4
 D = 23 km

Ottawa
 P₁ 05 49 32.3
 S₁ 05 49 52.3
 D = 164 km

Seven Falls
 e 05 49 48.7
 S₁ 05 50 19.5
 D = 280 km

Shawinigan Falls
 P₁ 05 49 25
 S₁ 05 49 39
 D = 115 km

JULY 23
 Penticton
 eP 07 31 25

JULY 23
 U. S. C. G. S.
 21 1/2S, 179 1/2W
 Fiji Islands
 H = 07 31 38
 h = 600 km
 Penticton
 eP 07 43 30
 Victoria
 eP 07 43 19 c

JULY 23
 H = 17 54 19.0
 Mag 2
 Victoria
 eP 17 54 39.3
 eS 17 54 54.8
 D = 127 km

JULY 24
 U. S. C. G. S.
 56N, 164E
 Near coast of
 Kamchatka
 H = 09 48 56
 Halifax
 P 10 00 39
 Ottawa
 iP 09 59 50 d
 Penticton
 iP 09 58 09 c
 Resolute
 P 09 56 28
 S 10 02 06
 Seven Falls
 eP 09 59 51
 Shawinigan Falls
 eP 09 59 51
 Victoria
 eP 09 56 58 d

JULY 25
 U. S. C. G. S.
 55N, 163E
 Near coast of
 Kamchatka
 H = 03 41 05
 Mag 6 1/2
 Halifax
 eP 03 52 47
 Ottawa
 eP 03 52 06
 Penticton
 eP 03 50 24
 Resolute
 P 03 48 44
 S 03 54 54

SEISMOLOGICAL BULLETIN - 1960

Seven Falls eP 03 52 09	JULY 25 U.S.C.G.S. 53.4N, 159.4E Near coast of Kamchatka H = 15 30 36.6 h = 152 km	JULY 26 H = 18 46 31.4 Mag 1 Banff iP 18 46 35.8 d iS 18 46 39.2 D = 28 km
Shawinigan Falls eP 03 52 08	Halifax P 15 42 11 Resolute eP 15 38 27 d	JULY 27 U.S.C.G.S. 44.7S, 75.1W Near coast of Southern Chile H = 10 04 53.0 h = 25 km Mag 6 1/4 Halifax P 10 17 56 Ottawa iP 10 17 52 c Seven Falls eP 10 18 01 Shawinigan Falls eP 10 18 00
JULY 25 Victoria eP 04 04 15	JULY 25 H = 20 06 31.5 Penticton eP 20 06 55 eS 20 07 13 D = 150 km	JULY 27 H = 15 36 33 Mag 1 1/2 Banff iP 15 36 37 iS 15 36 40 D = 25 km
JULY 25 U.S.C.G.S. 17 1/2S, 178W Fiji Islands H = 10 27 00 h = 500 km Penticton iP 10 39 43 d	JULY 26 U.S.C.G.S. 40 1/2N, 144 1/2E Off east coast of Hokkaido Japan H = 03 55 54 Resolute eP 04 05 52 d	JULY 27 H = 16 08 56 Mag 1 1/4 Penticton iP 16 09 00.2 iS 16 09 03.4 D = 26 km
JULY 25 U.S.C.G.S. 54N, 159E Kamchatka H = 11 12 00 h = 100 km Mag 6 3/4 Alberni iP 11 20 16 Banff iP 11 20 43 d eS 11 25 47 Halifax iP 11 23 38 Ottawa eP 11 23 09 c Penticton iP 11 21 35 d Resolute iP 11 19 55 c S 11 26 11 Seven Falls eP 11 23 10 c Shawinigan Falls iP 11 23 10 c Victoria iP 11 20 24	JULY 26 U.S.C.G.S. 40 1/2N, 37E Turkey H = 12 36 20 Banff iP 12 48 59 Halifax P 12 47 28 Penticton eP 12 49 10 Resolute P 12 46 35	

DOMINION OBSERVATORIES

JULY 27

H = 16 44 36.8
 Alberni
 eP 16 44 47
 Penticton
 iP 16 44 45.0
 iS 16 44 51.3
 D = 52 km

JULY 28

47.8N, 121.8W
 40 km northeast of
 Seattle
 H = 07 21 54.3
 Mag 2 1/4
 Alberni
 eP 07 22 36.1
 Penticton
 S - P = 28.7"
 Victoria
 eP 07 22 17.2 c
 iS 07 22 34.7

JULY 28

48 1/2N, 122W
 40 km southeast of
 Bellingham
 H = 09 10 14.0
 Alberni
 iP 09 10 53.2
 eS 09 11 23.2
 Penticton
 S - P = 27.4"
 Victoria
 iP 09 10 33.2
 iS 09 10 49.8

JULY 28

H = 20 40 53.5 ± 1 sec.
 Penticton
 iP 20 41 19.0
 iS 20 41 38.5
 D = 160 km

JULY 29

U. S. C. G. S.
 19 1/2S, 170 1/2E
 Loyalty Islands
 H = 00 24 06
 Mag 6 1/2
 Halifax
 P' 00 43 21
 Ottawa
 iP' 00 43 05 d
 Penticton
 eP 00 37 28
 Resolute
 i 00 38 44
 i 00 43 16
 Seven Falls
 eP' 00 43 11 d
 Shawinigan Falls
 eP' 00 43 09
 Victoria
 eP 00 37 13 d

JULY 29

H = 00 53 11.8
 Penticton
 iP 00 53 41.0
 iS 00 54 03.7
 D = 185 km

JULY 29

U. S. C. G. S.
 40.1N, 142.3 E
 Honshu, Japan
 H = 17 31 39.5
 h = 50 km
 Mag 6 3/4
 Alberni
 eP 17 42 04
 Hanff
 eP 17 42 28
 Halifax
 P 17 44 48
 Ottawa
 eP 17 44 27 c
 Penticton
 iP 17 42 19
 Resolute
 P 17 41 38
 S 17 49 44

Seven Falls

eP 17 44 31
 Shawinigan Falls
 eP 17 44 27 c
 Victoria
 eP 17 42 10 d

JULY 30

U. S. C. G. S.
 1.4S, 79.1W
 Ecuador
 H = 02 04 49.4
 h = 21 km
 Penticton
 iP 02 15 08 d ?

JULY 30

H = 06 06 46.6
 Penticton
 iP 06 06 52.8
 iS 06 06 57.5
 D = 39 km

JULY 30

Penticton
 iP 07 25 29

JULY 30

U. S. C. G. S.
 56.3N, 163.9E
 Near coast of Kamchatka
 H = 14 12 35.5
 h = 21 km
 Penticton
 iP 14 20 46

JULY 30

H = 20 24 48.4
 Penticton
 iP 20 25 06.7
 iS 20 25 20.7
 D = 115 km

SEISMOLOGICAL BULLETIN - 1960

JULY 31

5.6S, 150.0E
New Britain
H = 02 55 46.2
h = 25 km
Mag 6 3/4

Banff
eP 03 09 17

Halifax
P' 03 14 56
PKS 03 18 24

Ottawa
iP' 03 14 43 d

Penticton
eP 03 09 06

Resolute
P 03 09 40
S 03 20 36
i 03 23 00

Shawinigan Falls
eP' 03 14 46 d

Victoria
eP 03 09 01 c ?

JULY 31

U. S. C. G. S.
43.6S, 74.3W
Near coast of Central
Chile

H = 14 55 03.3
h = 97 km

Halifax
iP 15 07 59 c

Shawinigan Falls
eP 15 07 57

AUGUST 1

48.9N, 121.7W
Northeast of Mt. Baker
U. S. A.

H = 01 45 44
Mag 2

Penticton
iP 01 46 07.5 c
iS 01 46 25.7

Victoria
eP 01 46 06.4
e? 01 46 30.1

AUGUST 1

H = 02 00 42.7
Penticton
iP 02 00 44.4
iS 02 00 45.7
i 02 00 46.3
D = 10 km

AUGUST 2

H = 03 46 28.5
Mag 2
Penticton
iP 03 46 42.2
eS 03 46 52.6
D = 85.3 km

AUGUST 2

U. S. C. G. S.
22.2S, 171.5E
Loyalty Islands
H = 05 07 22
h = 108 km
Mag 6 1/2

Penticton
eP 05 20 32 c ?

Resolute
P' 05 26 33
i 05 27 04

Shawinigan Falls
eP' 05 26 09
i 05 27 50

Victoria
eP 05 20 20

AUGUST 2

U. S. C. G. S.
51.5N, 178.3W
Andreanof Islands
H = 06 14 47
h = 34 km

Alberni
iP 06 21 30

Halifax
eP 06 25 51

Penticton
eP 06 21 55

Resolute

P 06 22 20
i 06 24 25
Victoria
iP 06 21 38.8 c

AUGUST 2

H = 06 51 14.9
Mag 2
Penticton
iP 06 51 26.6 c
eS 06 51 35
D = 73 km

AUGUST 2

U. S. C. G. S.
28.2S, 176.6W
Kermadec Islands
H = 09 30 26
h = 61 km
Victoria
eP 09 43 20

AUGUST 2

U. S. C. G. S.
4.5S, 104.7W
Southwest of Galapagos
Islands
H = 13 42 28
h = 93 km

Penticton
eP 13 51 53

Resolute
P 13 54 27
S 14 04 28

AUGUST 2

Alberni
iP 14 10 50
Victoria
eP 14 09 11

DOMINION OBSERVATORIES

AUGUST 2
 U. S. C. G. S.
 84. 2N, 2. 3E
 North Polar region
 H = 20 51 03.8
 h = 40 km
 Resolute
 eP 20 54 55 d

AUGUST 2
 Resolute
 P 21 01 18

AUGUST 2
 Alberni
 iP 22 47 15

AUGUST 3
 Shawinigan Falls
 eP 01 26 18

AUGUST 3
 Pentiction
 eP 02 31 20

AUGUST 4
 H = 01 37 53.8
 Mag 2 3/4
 Pentiction
 iP 01 38 33.8 c?
 eP 01 39 07
 D = 270 km

AUGUST 4
 U. S. C. G. S.
 51. 4N, 179. 1E
 Rat Islands
 H = 07 34 53.8
 Mag 6
 h = 83 km
 Alberni
 eP 07 41 27
 Banff
 eP 07 42 22

Halifax
 P 07 46 01
 Ottawa
 eP 07 45 23
 Resolute
 P 07 42 28
 i 07 44 10
 S 07 48 04
 Seven Falls
 eP 07 45 32
 Victoria
 iP 07 41 50.4 d
 iP 07 41 54.4

AUGUST 4
 U. S. C. G. S.
 51N, 179.4E
 Rat Islands
 H = 09 08 36
 h = 100 km
 Pentiction
 eP 09 15 52
 Victoria
 iP 09 15 37 c

AUGUST 4
 Pentiction
 eP 13 09 13

AUGUST 4
 Pentiction
 eP 13 32 29 c ?

AUGUST 4
 U. S. C. G. S.
 51. 3N, 178. 8E
 Rat Islands
 H = 14 05 28
 h = 59 km
 Pentiction
 eP 14 12 48
 Resolute
 P 14 13 04

AUGUST 4
 Pentiction
 eP 16 49 09

AUGUST 4
 Resolute
 P 21 31 16

AUGUST 5
 U. S. C. G. S.
 50. 5N, 130. 3W
 Queen Charlotte
 Islands region
 H = 08 45 31
 h = 25 km
 Alberni
 iP 08 46 29
 Resolute
 S 08 56 20
 Victoria
 iP 08 46 47.3 c

AUGUST 5
 Victoria
 eP 08 56 27

AUGUST 5
 U. S. C. G. S.
 50. 1N, 156. 8E
 Off south coast of
 Kamchatka
 H = 16 06 33
 h = 42 km
 Halifax
 P 16 18 37
 Pentiction
 iP 16 15 36 d
 Resolute
 P 16 15 02
 S 16 41 23
 Victoria
 iP 16 15 23.0 c

SEISMOLOGICAL BULLETIN - 1960

AUGUST 5

U. S. C. G. S.
9. 5S, 118. 8E
Sumba Island
H = 16 26 23. 5
h = 64 km
Halifax
P' 16 45 58

AUGUST 6

Alberni
iP 08 32 31

AUGUST 6

Victoria
eP 08 39 28

AUGUST 8

H = 03 24 32. 3
Mag 2 3/4
Victoria
iP 03 24 51. 0 c
iS 03 25 05. 3
D = 117 km

AUGUST 5

Victoria
eP 22 19 36

AUGUST 6

Resolute
P 12 55 37
Victoria
eP 12 55 26

AUGUST 8

Halifax
P 07 17 02

AUGUST 5

U. S. C. G. S.
51. 0N, 178. 7E
Rat Islands
H = 22 27 34
h = 15 km
Halifax
eP 22 38 49
Ottawa
eP 22 38 16
Resolute
P 22 35 16
i 22 37 17
Shawinigan Falls
eP 22 38 12
i 22 39 15
Victoria
iP 22 34 43. 4

AUGUST 6

U. S. C. G. S.
42. 4S, 74. 8W
Near coast of Chile
H = 14 49 44. 9
h = 35 km
Ottawa
eP 15 02 32
Shawinigan Falls
eP 15 02 38

AUGUST 8

Resolute
i 09 25 20

AUGUST 8

Resolute
i 12 53 17

AUGUST 8

U. S. C. G. S.
36N, 27. 3E
Dodecanese Islands
H = 20 36 28. 4
h = 87 km
Shawinigan Falls
eP 20 47 38

AUGUST 6

Victoria
eP 02 58 37

AUGUST 6

Victoria
eP 15 55 38

AUGUST 9

U. S. C. G. S.
21. 2S, 71. 6W
Off coast of Chile
H = 06 10 11
h = 104 km
Penticton
eP 06 22 24 c?
Shawinigan Falls
eP 06 21 00
Victoria
eP 06 22 30

AUGUST 6

Canadian Arctic
H = 06 22 --
Mag 2. 5 - 3. 5
Resolute
iP₁ 06 23 10. 0
D = 100 - 200 km

AUGUST 7

Penticton
eP 10 09 45

AUGUST 7

Halifax
P 16 29 57
Ottawa
eP 16 30 04
Shawinigan Falls
eP 16 30 04

DOMINION OBSERVATORIES

AUGUST 9	Seven Falls	Victoria
U. S. C. G. S.	eP 07 47 04	eP 16 59 08 d
51. 1N, 156. 8E	Shawinigan Falls	iS ? 17 09 52
Off south coast of	eP 07 46 51	
Kamchatka	Victoria	
H = 06 21 46.9	iP 07 41 24 c	AUGUST 10
h = 10 km		Resolute
Penticton		i 00 02 32
eP 06 30 00	AUGUST 9	
Resolute	48 3/4N, 121 3/4W	
P 06 29 26	Near Mt. Baker	AUGUST 10
Victoria	H = 10 47 18.7	U. S. C. G. S.
eP 06 29 58	Mag 2 3/4	8.9N, 83.5W
	Alberni	Near coast of Costa
	eP 10 47 49.2	Rica
	eS 10 48 12.9	H = 12 38 48.3
AUGUST 9	Penticton	h = 25 km
U. S. C. G. S.	eP 10 47 45	Halifax
56. 1N, 164. 2E	eS 10 48 05	iP 12 46 20
Off east coast of	Victoria	Ottawa
Kamchatka	eP 10 47 36 d	iP 12 45 56 d
H = 06 58 05.5		Resolute
h = 37 km		P 12 49 31
Penticton		Shawinigan Falls
eP 07 06 16	AUGUST 9	iP 12 46 10 d
Resolute	U. S. C. G. S.	
P 07 05 52	47. 5N, 142. 7E	
Victoria	Sakhalin Island	
eP 07 06 05	H = 14 02 39.3	AUGUST 11
	h = 35 km	U. S. C. G. S.
	Halifax	52. 2N, 176. 2W
	eP 14 15 09	Andreasof Islands
AUGUST 9	Penticton	H = 02 36 56.5
U. S. C. G. S.	eP 14 12 45 d ?	h = 97 km
40N, 126.6W	Resolute	Alberni
Off coast of Northern	P 14 11 50	iP 02 43 21 c
California	Victoria	Halifax
H = 07 39 22.6	eP 14 12 35	P 02 47 44
Mag 6		Ottawa
Alberni		iP 02 47 03 c
eP 07 41 33	AUGUST 9	Penticton
Halifax	U. S. C. G. S.	iP 02 43 44 d
P 07 47 (47)	24. 5S, 177. 1W	Shawinigan Falls
P 07 48 00	Tonga Islands region	eP 02 47 06 c
Ottawa	H = 16 46 37.7	Victoria
eP 07 46 33	h = 186 km	iP 02 43 30 c
Penticton	Penticton	
eP 07 41 49.7 c	iP 16 59 20 d	
Resolute	Resolute	
P 07 46 34	i 17 05 31	
iS 07 52 28	S 17 13 18	

SEISMOLOGICAL BULLETIN - 1960

AUGUST 11

U. S. C. G. S.
0.0, 121.6E
Celebes
H = 02 53 16.3
h = 46 km
Halifax
P' 03 12 36

Ottawa
iP' 03 12 30 c
Shawinigan Falls
eP' 03 12 29

AUGUST 11

U. S. C. G. S.
8.8N, 126.1E
Mindanao, Philippine
Islands
H = 04 50 33.9
h = 79 km
Alberni
i 05 06 40 d
Halifax
eP' 05 09 29.5 c
iP 05 09 29.9 d
Ottawa
eP' 05 09 22 c

Penticton
iP 05 04 06 d
Resolute
P 05 03 39
i 05 07 22
Shawinigan Falls
iP' 05 09 22 c
Victoria
iP 05 03 58 d

AUGUST 11

Alberni
iP 16 06 42

AUGUST 12

H = 03 38 17.2
Mag 2 1/2
Penticton
eP 03 38 48.4c?
eS 03 39 14
D = 200 km

AUGUST 12

Resolute
i 10 43 07

AUGUST 12

U. S. C. G. S.
36.1N, 141.4E
Near east coast of
Honshu, Japan
H = 13 12 34.3
h = 95 km
Penticton
eP 13 23 32 c ?
Resolute
iP 13 22 55 c
Victoria
eP 13 23 22

AUGUST 12

49°30'N, 124°W
Near Sechelt
H = 16 01 34.9
Mag 1 3/4
Alberni
iP 16 01 47.5
iS 16 01 51.7
Victoria
eP 16 01 51.1
eS 16 02 04.9

AUGUST 12

Alberni
iP 16 26 12
Penticton
eP 16 26 58
Victoria
iP 16 26 30 d

AUGUST 13

Canadian Arctic
H = 06 40 31.4
Mag 1.8
Resolute
P₁ 06 40 47.0
S₁ 06 40 58.9
D = 97.4

AUGUST 13

U. S. C. G. S.
40.6N, 142E
Near east coast of
Honshu, Japan
H = 07 11 05.5
h = 60 km
Halifax
eP 07 24 11.5 c
i 07 24 27
Ottawa
iP 07 23 52 c
Resolute
iP 07 21 02 c
S 07 29 08
Shawinigan Falls
iP 07 23 51 c
Victoria
iP 07 21 34 c

AUGUST 13

U. S. C. G. S.
39.7S, 74.8W
Near coast of southern
Chile
H = 14 14 57.7
h = 61 km
Halifax
eP 14 27 29.5 d
iP 14 27 30 c
Ottawa
eP 14 27 29 d
Resolute
P 14 29 46
i 14 40 20
S 14 42 13
i 14 44 12
Seven Falls
eP 14 27 41

DOMINION OBSERVATORIES

Shawinigan Falls eP 14 27 35 d	AUGUST 14 U. S. C. G. S. 23. 5S, 66. 4W	AUGUST 16 U. S. C. G. S. 16. 5S, 71. 5W
Victoria iP 14 28 31 c	Jujuy Province Argentina H = 22 46 07.6 h = 245 km	Southern Peru H = 02 47 18.8 h = 113 km
AUGUST 14 U. S. C. G. S. 45. 4N, 151. 1E	Halifax iP 22 56 45 d	Banff eP 02 59 04
Ryukyu Islands H = 04 00 52.3 h = 54 km	Ottawa eP 22 56 52 d	Halifax eP 02 57 23 c
Halifax P 04 13 25	Shawinigan Falls iP 22 56 58 d	Ottawa eP 02 57 26 c
Ottawa eP 04 13 00	Victoria iP 22 58 33 d	Shawinigan Falls eP 02 57 34 c
Shawinigan Falls eP 04 13 02		Victoria eP 02 59 14 c
AUGUST 14 48. 7°N, 124. 8°W	AUGUST 15 U. S. C. G. S. 45. 3N, 148. 6E	AUGUST 16 47. 7°N, 116. 3°W
Near Clo-oose	Kurile Islands H = 05 55 48.2 h = 35 km	Montana, U. S. A. H = 13 27 55.8
Vancouver Island H = 07 37 28.8 Mag 2	Victoria eP 06 05 30 d ?	Banff iP 13 28 52.3 e 13 29 28.3
Alberni iP 07 37 39.4 c ?	AUGUST 15 U. S. C. G. S. 13. 4S, 65. 8E	Victoria eP 13 29 06.3 eS 13 30 12.5
Victoria eP 07 37 46.1 eS 07 37 59.3	Indian Ocean H = 06 58 56.4 h = 15 km	AUGUST 16 Banff e 15 57 15
AUGUST 14 U. S. C. G. S. 7. 2S, 146. 2E	Victoria eP' 07 18 34	AUGUST 17 H = 06 39 17.6
Near north coast of New Guinea H = 14 41 04.2 h = 200 km	AUGUST 15 U. S. C. G. S. 13. 5S, 67E	Alberni iP 06 39 27.8 iS 06 39 35.6 D = 64 km
Shawinigan Falls eP' 14 59 51	Indian Ocean H = 14 33 38.4 h = 25 km	
	Victoria eP' 14 53 15	

SEISMOLOGICAL BULLETIN - 1960

AUGUST 17

U. S. C. G. S.
20. 1S, 11. 4W
South Atlantic Ocean
H = 09 33 49.1
h = 87 km
Ottawa
eP 09 46 26

AUGUST 18

H = 22 59 45.7
Mag 2.4
Penticton
eP 23 00 12
eS 23 00 32
D = 164 km

AUGUST 19

U. S. C. G. S.
27N, 140. 1E
Bonin Islands region
H = 12 41 31.4
h = 283 km
Penticton
eP 12 52 52c ?
Victoria
iP 12 52 42 c

AUGUST 17

U. S. C. G. S.
19. 8S, 12. 2W
South Atlantic Ocean
H = 11 24 07.2
h = 25 km
Ottawa
eP 11 36 51

AUGUST 19

U. S. C. G. S.
40. 7N, 127. 2W
Off coast of Northern
California
H = 04 07 07.5
h = 27 km
Banff
eP 04 10 14
Penticton
eP 04 09 31
Victoria
eP 04 09 06

AUGUST 19

U. S. C. G. S.
54. 1N, 160. 6E
Near east coast of
Kamchatka
H = 17 03 39
h = 25 km
Halifax
eP 17 15 22
eP 17 15 29
Ottawa
eP 17 14 51
Penticton
eP 17 12 13
Shawinigan Falls
eP 17 15 03

AUGUST 18

H = 18 30 31.8
Mag 2.4
Penticton
eP 18 31 07.9
eS 18 31 35.4
D = 225 km

AUGUST 19

Halifax
P 09 27 35
Ottawa
eP 09 28 21

AUGUST 18

U. S. C. G. S.
44. 5N, 147. 6E
Kurile Islands
H = 20 47 02.5
h = 32 km
Halifax
P 20 59 48
Ottawa
eP 20 59 24
Penticton
iP 20 57 05 d
Shawinigan Falls
eP 20 59 24

AUGUST 19

Ottawa
eP 11 21 31
Shawinigan Falls
eP 11 21 48

AUGUST 20

U. S. C. G. S.
14. 3N, 91. 4W
Guatemala
H = 00 19 34.4.
Mag 6
h = 158 km
Banff
eP 00 27 10 ?
Ottawa
iP 00 26 06 c
Penticton
eP 00 27 14
Shawinigan Falls
eP 00 26 24
Victoria
iP 00 27 25 d

AUGUST 18

H = 21 10 54.7
Mag 2.0
Penticton
eP 21 11 17
e 21 11 34
D = 139 km

AUGUST 19

Banff
iP 12 52 00.7

DOMINION OBSERVATORIES

AUGUST 20	Ottawa	AUGUST 23
H = 18 00 22.0	eP' 13 08 20 d	Penticton
Alberni	Resolute	eP 17 13 42
iP 18 00 30.4	P 13 02 42	
iS 18 00 36.8	i 13 13 04	
D = 50 km	Shawinigan Falls	AUGUST 23
	eP' 13 08 19 d	H = 21 45 55
		Banff
		eP 21 46 01
AUGUST 20	AUGUST 21	eS 21 46 06
H = 21 34 57.5	Halifax	D = 37 km
Alberni	iP 13 11 32.5 c	
iP 21 35 06.0		
iS 21 35 12.5		
D = 52 km		
	AUGUST 21	AUGUST 23
	Penticton	U. S. C. G. S.
	eP 18 00 12	14. 5S, 176. 4W
AUGUST 21		Fiji Islands region
U. S. C. G. S.		H = 22 44 51.5
4. 3S, 143. 3E		h = 56 km
New Guinea	AUGUST 22	Mag 6
H = 00 18 01.5	H = 06 19 23	Penticton
h = 39 km	Penticton	eP 22 57 03
Halifax	eP 06 20 12	
iP' 00 37 19 c	Victoria	
Ottawa	eP 06 19 49.1 c	AUGUST 24
eP' 00 37 04	iS 06 20 19.0	Banff
Shawinigan Falls	D = 163 km	eP 01 32 28
eP' 00 37 05		
i 00 37 30		
	AUGUST 22	
	Penticton	AUGUST 24
	iP 18 46 10	U. S. C. G. S.
AUGUST 21		56. 3N, 163. 8E
Ottawa		Near east coast of
eP 04 02 44		Kamchatka
	AUGUST 23	H = 01 44 09.9
	Penticton	h = 25 km
	iP 08 02 26 c	Halifax
AUGUST 21		P 01 55 48
Penticton		Ottawa
eP 05 33 15		iP 01 55 03 c
	AUGUST 23	Penticton
	U. S. C. G. S.	eP 01 52 19
	0. 9N, 26W	Resolute
AUGUST 21	Atlantic Ocean	P 01 51 43
U. S. C. G. S.	H = 14 08 14.9	i 01 53 14
4. 9N, 125. 1E	h = 25 km	S 01 57 14
Near south coast of	Halifax	Shawinigan Falls
Mindanao, Philippine	iP 14 17 48 d	eP 01 55 12
Islands	Shawinigan Falls	Victoria
H = 12 49 37.6	eP 14 18 41	eP 01 52 08
h = 211 km		
Halifax		
iP' 13 08 28.5 d		

SEISMOLOGICAL BULLETIN - 1960

AUGUST 24

U. S. C. G. S.
19S, 174.1W
Tonga Islands
H = 05 49 01.1
h = 42 km
Penticton
eP 06 01 29

AUGUST 25

U. S. C. G. S.
52.7N, 169.6W
Fox Islands
H = 17 41 58.8
h = 38 km
Halifax
eP 17 52 37
Ottawa
eP 17 51 48
Penticton
eP 17 48 15

AUGUST 27

U. S. C. G. S.
34.4N, 26.3E
Crete
H = 10 17 18.1
h = 40 km
Ottawa
eP 10 28 52
Shawinigan Falls
eP 10 28 38

AUGUST 24

H = 18 27 31
Mag 2.4
Penticton
eP 18 27 58.7
eS 18 28 19.8
D = 172 km

Penticton

eP 17 48 15
Shawinigan Falls
eP 17 51 53
Victoria
eP 17 48 00

AUGUST 27

U. S. C. G. S.
49.9N, 153.7E
Kurile Islands
H = 18 16 15.7
h = 220 km

AUGUST 24

U. S. C. G. S.
24.4N, 95E
Burma-India Border
H = 19 27 53.2
h = 145 km
Resolute
iP 19 39 56

AUGUST 25

Alberni
eP₁ 19 00 42.9
Victoria
eP₁ 19 00 45.9

Halifax

iP 18 28 06 c

Ottawa

eP 18 27 40

Penticton

iP 18 25 12 d

Resolute

iP 18 24 34

S 18 31 16

i 18 32 20

Shawinigan Falls

eP 18 27 40 d

Victoria

iP 18 25 01 d

AUGUST 24

47.7N, 122.3W
Near Seattle, U. S. A.
H = 20 10 29.4
Mag 2

AUGUST 26

U. S. C. G. S.
13.5S, 165.9E
New Hebrides
H = 18 27 18.2
h = 56 km

Shawinigan Falls

eP 18 27 40 d

Victoria

iP 18 25 01 d

Halifax

P' 18 46 16

Ottawa

eP' 18 46 03

Penticton

iP 18 40 15 c

Shawinigan Falls

eP' 18 46 07

Victoria

eP 18 40 02

AUGUST 27

H = 19 07 41.9

Mag 1

Victoria

eP 19 07 46.1

iS 19 07 49.3

D = 26.2 km

AUGUST 25

H = 00 31 43
Mag 2.3
Penticton
eP 00 32 08
eS 00 32 27
D = 156 km

DOMINION OBSERVATORIES

AUGUST 28
 U. S. C. G. S.
 3. 7N, 82. 8W
 South of Panama
 H = 06 05 22. 6
 h = 108 km
 Ottawa
 iP 06 13 03 c
 Seven Falls
 eP 06 13 26
 Shawinigan Falls
 eP 06 13 17

AUGUST 30
 H = 16 33 03
 Victoria
 iP 16 33 23. 1 c
 eS 16 33 38. 5
 D = 126 km

AUGUST 31
 U. S. C. G. S.
 39. 1N, 36. 3E
 Turkey
 H = 22 11 53. 9
 h = 44 km
 Halifax
 P 22 23 01

SEPTEMBER 1
 U. S. C. G. S.
 56. 1N, 153. 7W
 Kodiak Island
 H = 15 37 14. 4
 h = 24 km
 Mag 6
 Halifax
 iP 15 46 44
 iS 15 54 17
 Ottawa
 iP 15 45 54 d
 Resolute
 iP 15 43 14 c
 iS 15 48 03
 Seven Falls
 eP 15 46 05

Shawinigan Falls
 eP 15 45 59
 Victoria
 eP 15 41 47 d, N, W

SEPTEMBER 1
 Victoria
 iP 17 09 42

SEPTEMBER 1
 U. S. C. G. S.
 15. 8S, 179. 2E
 Fiji Islands
 H = 18 41 16. 2
 h = 33 km
 Victoria
 eP 18 53 28

SEPTEMBER 1
 U. S. C. G. S.
 16. 1S, 179. 6W
 Fiji Islands
 H = 20 02 12. 8
 h = 183 km
 Victoria
 eP 20 14 14

SEPTEMBER 2
 U. S. C. G. S.
 28. 7N, 98. 3E
 Tibet
 H = 13 46 10. 0
 h = 48 km
 Resolute
 P 13 57 57
 S 14 07 44
 Victoria
 eP 13 58 10

SEPTEMBER 2
 U. S. C. G. S.
 52. 0N, 171. 4W
 Fox Islands
 H = 22 02 48. 9
 h = 49 km
 Mag 5 3/4
 Halifax
 iP 22 13 30
 iS 22 22 08
 Ottawa
 eP 22 12 46 c
 Resolute
 iP 22 09 59
 S 22 15 40
 Seven Falls
 eP 22 12 55
 Shawinigan Falls
 eP 22 12 51
 Victoria
 eP 22 09 01
 e 22 12 06

SEPTEMBER 3
 Halifax
 P 00 11 50

SEPTEMBER 3
 U. S. C. G. S.
 43. 2N, 144. 4E
 Near north coast of
 Hokkaido Japan
 H = 00 19 57. 3
 h = 14 km
 Resolute
 iP 00 28 59 c

SEPTEMBER 3
 U. S. C. G. S.
 6. 1S, 154. 5E
 Solomon Islands
 H = 12 41 34. 9
 h = 457 km
 Mag 6 1/2
 Halifax
 P' 12 59 56

SEISMOLOGICAL BULLETIN - 1960

Ottawa
 eP' 12 59 39
 Resolute
 iP 12 54 40
 S 13 04 38
 Seven Falls
 eP' 12 59 44
 Shawinigan Falls
 iP' 12 59 41 d
 Victoria
 iP 12 53 45 c

SEPTEMBER 3
 U. S. C. G. S.
 40.9N, 142.5E
 Near north coast of
 Honshu, Japan
 H = 13 22 53.7
 h = 112 km
 Resolute
 P 13 32 43

SEPTEMBER 3
 U. S. C. G. S.
 48.5S, 126.3E
 South of Australia
 H = 20 41 08.6
 h = 30 km
 Resolute
 P' 21 00 55

SEPTEMBER 3
 U. S. C. G. S.
 44.6N, 149.1E
 Kurile Islands
 H = 23 46 23.9
 h = 27 km
 Mag 6 1/4
 Halifax
 P 23 59 08
 Ottawa
 eP 23 58 44
 Pentiction
 eP 23 56 21
 Resolute
 iP 23 55 46 c
 S 24 03 17

Seven Falls
 eP 23 58 39
 Shawinigan Falls
 eP 23 58 44
 Victoria
 eP 23 56 10

SEPTEMBER 4
 U. S. C. G. S.
 56.3N, 153.1W
 Kodiak Island
 H = 05 21 22.1
 h = 48 km

Ottawa
 eP 05 29 56
 Pentiction
 eP 05 26 08
 Resolute
 iP 05 27 16 c
 S 05 32 06
 Shawinigan Falls
 eP -05 30 08
 Victoria
 eP 05 25 49

SEPTEMBER 4
 Canadian Arctic
 H = 10 34 04.2
 Mag 2.6
 Resolute
 eP₁ 10 34 31.9
 i 10 34 35.0
 i 10 34 40.3
 iS₁ 10 34 53.0
 D = 173 km

SEPTEMBER 5
 H = 10 48 00
 Mag 3.0
 Pentiction
 iP₁ 10 48 29.6
 iS₁ 10 48 52.3
 D = 186 km

SEPTEMBER 5
 47.7N, 121.6E
 East of Seattle
 Washington
 H = 14 31 55
 Mag 3.0
 Alberni
 iP_n 14 32 32.
 iS_n 14 33 03.
 D = 290 km
 Pentiction
 eP_n 14 32 (36.8)
 eS_n 14 33 (05.5)
 D = 235 km
 Victoria
 eP₁ 14 32 15.6
 eS₁ 14 32 30.4
 D = 158 km

SEPTEMBER 6
 Resolute
 P 07 21 34
 P 07 24 17

SEPTEMBER 6
 H = 13 05 30
 Mag 2.0
 Victoria
 eP₁ 13 05 47.4
 eS₁ 13 06 00.5
 D = 107 km

SEPTEMBER 6
 U. S. C. G. S.
 20.4S, 169.4E
 Loyalty Islands
 H = 14 03 01.8
 h = 35 km
 Mag 6 1/4
 Halifax
 iP' 14 22 07 d
 Ottawa
 iP' 14 21 49 c
 Seven Falls
 eP' 14 21 55
 Shawinigan Falls
 iP' 14 21 03 c
 Victoria
 iP 14 16 01 c

DOMINION OBSERVATORIES

SEPTEMBER 6

U. S. C. G. S.
 41.9N, 142.5E
 Near south coast
 of Hokkaido Japan
 H = 15 24 40.5
 h = 109 km
 Halifax
 eP 15 37 37 d
 Ottawa
 eP 15 37 16
 Resolute
 P 15 34 23
 Seven Falls
 eP 15 37 16
 Shawinigan Falls
 eP 15 37 15
 Victoria
 iP 15 34 56 c

SEPTEMBER 6

U. S. C. G. S.
 64.7N, 86.4W
 Southampton Island
 Region
 H = 21 24 26.4
 h = 25 km
 Mag 5.5 (Dom. Obs.)
 Montreal
 e 21 29 10
 Halifax
 P 21 29 50
 S 21 34 40
 Ottawa
 eP 21 29 07
 Resolute
 iP_n 21 26 53
 S_n 21 28 38
 Lg 21 29 37
 D = 1160 km
 Seven Falls
 eP 21 29 04
 Shawinigan Falls
 eP 21 29 13
 i 21 31 28
 e 21 33 04
 e 21 34 51

SEPTEMBER 7

U. S. C. G. S.
 37.2S, 16.1W
 Tristan da Cunha
 region
 H = 01 17 39.1
 h = 35 km
 Halifax
 eP 01 30 51

SEPTEMBER 7

U. S. C. G. S.
 44.3N, 149.1E
 Kurile Islands
 H = 11 44 56.6
 h = 89 km
 Ottawa
 eP 11 57 11
 Penticton
 eP 11 54 50
 Resolute
 P 11 54 16
 Shawinigan Falls
 eP 11 57 12

SEPTEMBER 7

Victoria
 iP 14 40 34 c

SEPTEMBER 7

H = 21 52 30 ?
 Mag 2.1
 Penticton
 iP₁ 21 52 (37.2)
 iS₁ 21 52 (51.2)
 D = 115 km

SEPTEMBER 8

U. S. C. G. S.
 6.2N, 126.2E
 Near east coast of
 Mindanao, Philippine
 Islands
 H = 11 07 40.8
 h = 47 km
 Halifax
 eP' 11 26 47 c
 e 11 30 00
 Ottawa
 eP' 11 26 39
 Seven Falls
 eP' 11 26 38
 Shawinigan Falls
 eP' 11 26 38 c

SEPTEMBER 8

U. S. C. G. S.
 52.5N, 158.8E
 Kamchatka
 H = 14 32 00.3
 h = 29 km
 Alberni
 eP 14 40 25
 Halifax
 iP 14 43 50 c
 Ottawa
 eP 14 43 21 c
 Penticton
 iP 14 40 46
 Resolute
 iP 14 40 09 c
 Seven Falls
 iP 14 43 23 c
 Shawinigan Falls
 iP 14 43 22 c

SEISMOLOGICAL BULLETIN - 1960

SEPTEMBER 9
 U. S. C. G. S.
 71.5N, 2.4W
 Jan Mayen Island
 region
 H = 16 19 15.9
 h = 23 km
 Shawinigan Falls
 eP 16 27 03

SEPTEMBER 9
 Halifax
 eP 18 00 06 c
 Ottawa
 eP 18 00 05 d
 Shawinigan Falls
 eP 18 00 10 d

SEPTEMBER 9
 U. S. C. G. S.
 71.7N, 1.3W
 Jan Mayen Island
 region
 H = 20 04 32.7
 h = 23 km
 Ottawa
 eP 20 12 30 d
 Seven Falls
 eP 20 12 10
 Shawinigan Falls
 eP 20 12 19

SEPTEMBER 10
 U. S. C. G. S.
 34.4N, 26.4E
 Crete
 H = 00 19 08.4
 h = 10 km
 Ottawa
 eP 00 30 48
 Seven Falls
 eP 00 30 27
 Shawinigan Falls
 eP 00 30 34

SEPTEMBER 10
 Canadian Arctic
 H = 07 53 00.5
 Mag 2.2
 Resolute
 P₁ 07 53 32
 S₁ 07 53 56
 D = 197 km

SEPTEMBER 10
 U. S. C. G. S.
 4.0N, 122.6E
 Celebes Sea
 H = 10 44 51.2
 h = 629 km
 Halifax
 eP' 11 03 00
 i 11 05 30
 Ottawa
 eP' 11 02 49
 i 11 05 18
 Shawinigan Falls
 eP' 11 02 53 c

SEPTEMBER 10
 U. S. C. G. S.
 47.5N, 122.7W
 Near Seattle
 Washington, U. S. A.
 H = 15 06 32.5
 h = 25 km
 Mag 5
 Alberni
 iP₂ 15 07 05.2 c

Victoria
 iP₁ 15 06 49.0 c
 D = 126 km

SEPTEMBER 10
 H = 17 52 26
 Mag 2.1
 Alberni
 eP₁ 17 52 34.3
 eS₁ 17 52 40.7
 D = 60 km

Victoria
 eP₁ 17 52 49.9
 eS₁ 17 53 09.9
 D = 157 km

SEPTEMBER 10
 H = 19 21 04
 Mag 2.5
 Alberni
 eP 19 21 40.5
 D = 244 km
 Victoria
 iP₁ 19 21 19.3
 iS₁ 19 21 34.7
 D = 99 km

SEPTEMBER 10
 Ottawa
 iP 20 56 55 c

SEPTEMBER 11
 H = 04 29 13.6
 Mag 2.5
 Alberni
 iP_n 04 29 41.3
 iS_n 04 30 02.3
 D = 172 km
 Victoria
 iP₁ 04 29 23.3
 iS₁ 04 29 30.9
 D = 62 km

SEPTEMBER 12
 U. S. C. G. S.
 60.8N, 151.9W
 Southern Alaska
 H = 02 44 48.1
 h = 230 km

Alberni
 eP 02 49 00
 Halifax
 eP 02 53 37
 Ottawa
 iP 02 52 5
 Resolute
 P 02 49 51

DOMINION OBSERVATORIES

SEPTEMBER 12
 Seven Falls
 iP 02 52 58 c
 Shawinigan Falls
 eP 02 52 55
 Victoria
 iP 02 49 13 d

SEPTEMBER 12
 Alberni
 eP 06 03 32
 Victoria
 eP 06 03 41 d

SEPTEMBER 12
 U.S.C.G.S.
 27.3N, 128.4E
 Ryukyu Islands
 H = 12 17 08.1
 h = 48 km
 Mag 6 1/2
 Alberni
 eP 12 29 16
 Resolute
 iP 12 28 45 c
 S 12 38 13
 Victoria
 iP 12 29 22 c

SEPTEMBER 12
 U.S.C.G.S.
 7.0S, 117.0E
 Java Sea
 H = 16 02 05.8
 h = 611 km
 Halifax
 iP' 16 20 33 c
 i 16 23 18
 Seven Falls
 eP' 16 20 22
 i 16 23 10

SEPTEMBER 13
 U.S.C.G.S.
 27.0N, 140.2E
 Bonin Islands Region
 H = 03 09 09.7
 h = 439 km

Resolute
 iP 03 19 54 d
 Victoria
 eP 03 20 05

SEPTEMBER 13
 U.S.C.G.S.
 13.8N, 90.3W
 Guatemala
 H = 17 51 10.8
 h = 122 km
 Ottawa
 eP 17 57 45
 Shawinigan Falls
 eP 17 58 03

SEPTEMBER 14
 U.S.C.G.S.
 16.9N, 122.3E
 Luzon, Philippine
 Islands
 H = 00 34 25.3
 h = 50 km
 Victoria
 eP 00 47 37

SEPTEMBER 14
 U.S.C.G.S.
 19.6N, 70.3W
 Dominican Republic
 H = 01 53 32.1
 h = 103 km
 Halifax
 P 01 58 51
 Ottawa
 eP 01 58 58
 iT 02 04 00
 Shawinigan Falls
 eP 01 59 05
 Victoria
 eP 02 02 25

SEPTEMBER 14
 Halifax
 P 02 22 09
 Shawinigan Falls
 eP 02 21 32

SEPTEMBER 14
 U.S.C.G.S.
 35.1S, 106.0W
 South Pacific Ocean
 H = 04 57 12.5
 h = 40 km
 Ottawa
 iP 05 09 46
 Shawinigan Falls
 eP 05 09 55

SEPTEMBER 14
 U.S.C.G.S.
 20.9S, 174.1W
 Tonga Islands
 H = 23 18 35.1
 h = 25 km
 Victoria
 iP 23 31 03 c

SEPTEMBER 15
 Victoria
 eP 07 15 12

SEPTEMBER 15
 U.S.C.G.S.
 21.4N, 142.9E
 Volcano Islands region
 H = 17 57 42.7
 h = 361 km
 Alberni
 iP 18 08 52
 Victoria
 iP 18 08 59 c,s,e

SEPTEMBER 17
 U.S.C.G.S.
 49.3N, 155.4E
 Kurile Islands
 H = 07 52 50.8
 h = 35 km
 Alberni
 eP 08 01 43
 Halifax
 P 08 05 02
 Ottawa
 eP 08 04 34 c
 Resolute
 iP 08 01 29
 iP 08 08 23

SEISMOLOGICAL BULLETIN - 1960

Shawinigan Falls iP 08 04 35 c	Seven Falls eP' 09 59 46 i 10 03 00	SEPTEMBER 21 U.S.C.G.S. 10.7N, 88.9W Off Coast of El Salvador H = 03 44 25.0 h = 60 km Ottawa eP 03 51 29
Victoria eP 08 01 50	Shawinigan Falls eP' 09 59 44	Shawinigan Falls eP 03 51 46
SEPTEMBER 17 U.S.C.G.S. 49.4N, 155.2E Kurile Islands H = 08 05 29.5 h = 28 km Mag 6 Alberni eP 08 14 23 Halifax eP 08 17 40 c Ottawa iP 08 17 14 c Resolute P 08 14 08 i 08 21 03 Shawinigan Falls iP 08 17 16 c Victoria iP 08 14 30 c	SEPTEMBER 19 U.S.C.G.S. 20.5S, 65.4W Southern Bolivia H = 02 01 53.0 h = 118 km Seven Falls iP 02 12 44 c i 02 12 52	SEPTEMBER 21 U.S.C.G.S. 53.4N, 166.1W Fox Islands H = 10 38 31.0 h = 38 km Banff eP 10 44 44 Ottawa eP 10 48 04 Shawinigan Falls eP 10 48 10 Victoria eP 10 44 20
SEPTEMBER 17 U.S.C.G.S. 20.9S, 174.5W Tonga Islands H = 19 56 11.1 h = 28 km Mag 6 Alberni eP 20 08 40 Victoria eP 20 08 36	SEPTEMBER 19 U.S.C.G.S. 6.9N, 77.5W Columbia-Panama Border H = 19 01 25.4 h = 66 km Mag 6 Ottawa iP 19 08 45 c Resolute eP 19 12 25 eS 19 21 23 Seven Falls eP 19 09 03 Shawinigan Falls eP 19 08 56 Victoria eP 19 11 07	SEPTEMBER 21 U.S.C.G.S. 26.5N, 124.8E East China Sea H = 16 08 14.7 h = 207 km Victoria iP 16 20 24 d
SEPTEMBER 18 U.S.C.G.S. 6.8S, 129.2E Banda Sea H = 09 40 28.3 h = 83 km Halifax P' 10 00 00 Ottawa eP' 09 59 42	SEPTEMBER 22 Victoria eP 02 16 11	SEPTEMBER 22 Victoria eP 02 22 42

DOMINION OBSERVATORIES

SEPTEMBER 22

U.S.C.G.S.
3.3S, 29.3E
Belgian Congo
H = 09 05 36.8
h = 28 km
Mag 6 1/4
Banff
eP 09 24 36
Victoria
eP 09 24 47

SEPTEMBER 22

U.S.C.G.S.
2.8S, 29.8E
Congo
H = 09 14 58.0
h = 20 km
Banff
eP 09 33 57
Victoria
eP 09 34 07

SEPTEMBER 22

U.S.C.G.S.
51.5N, 168.8W
Fox Islands
H = 22 47 00.6
h = 33 km
Ottawa
eP 22 56 53
Shawinigan Falls
eP 22 56 58 c

SEPTEMBER 23

Halifax
iP 20 21 50.2 c

SEPTEMBER 23

U.S.C.G.S.
3.5S, 67.2W
Argentina
H = 23 17 11.5
h = 298 km
Halifax
iP 23 28 01 d

SEPTEMBER 24

U.S.C.G.S.
41.6N, 179.3W
New Zealand region
H = 11 06 39.2
h = 43 km
Ottawa
iP' 11 25 29 d
Shawinigan Falls
eP' 11 25 33 d

SEPTEMBER 24

U.S.C.G.S.
2.3S, 73.3W
Northern Peru
H = 13 58 23.1
h = 122 km
Ottawa
iP 14 07 01 d
Shawinigan Falls
eP 14 07 11 d
i 14 07 43

SEPTEMBER 25

U.S.C.G.S.
19.5N, 145.6E
Mariana Islands
H = 17 30 18.4
h = 95 km
Resolute Bay
iP 17 42 15 c?

SEPTEMBER 25

Shawinigan Falls
iP 18 51 24

SEPTEMBER 26

U.S.C.G.S.
27.4S, 68.2W
Argentina
H = 00 32 05.0
h = 25 km
Ottawa
eP 00 43 37
i 00 44 07
Seven Falls
eP 00 43 47

Shawinigan Falls

iP 00 43 44
i 00 44 13
Victoria
eP 00 45 06

SEPTEMBER 26

U.S.C.G.S.
32.4N, 131.7E
Near Coast of
Kyushu, Japan
H = 11 36 21.7
h = 15 km
Victoria
iP 11 48 06 c

SEPTEMBER 26

U.S.C.G.S.
51.6N, 172.2W
Fox Islands
H = 15 13 25.8
h = 44 km
Ottawa
eP 15 23 29
Resolute Bay
eP 15 20 39 ?
Seven Falls
eP 15 23 39
Shawinigan Falls
eP 15 23 35
Victoria
eP 15 19 44

SEPTEMBER 26

U.S.C.G.S.
15.9S, 72.9W
Southern Peru
H = 16 58 13.9
h = 115 km
Ottawa
eP 17 08 19
Seven Falls
eP 17 08 31 c
Shawinigan Falls
eP 17 08 27
Victoria
eP 17 10 06

SEISMOLOGICAL BULLETIN - 1960

SEPTEMBER 27	Victoria	SEPTEMBER 29
Shawinigan Falls	eP 06 40 06	U.S.C.G.S.
eP 03 59 31c		32.5S, 70.2W
SEPTEMBER 27	SEPTEMBER 29	Central Chile
Victoria	Alberni	H = 22 12 18.8
iP 05 20 06c	eP 10 14 57	h = 25 km
SEPTEMBER 27	SEPTEMBER 29	Shawinigan Falls
U.S.C.G.S.	U.S.C.G.S.	eP 22 24 21
14.4N, 145.8E	18.9N, 144.7E	SEPTEMBER 30
Mariana Islands	Mariana Islands	U.S.C.G.S.
H = 18 35 52.2	H = 11 18 52.9	26.9N, 127.6E
h = 109 km	h = 469 km	Ryukyu Islands
Resolute Bay	Mag 6 1/4	H = 02 20 47.9
iP 18 48 12c	Banff	h = 100 km
Victoria	eP 11 30 26	Resolute Bay
eP 18 47 53	Halifax	iP 02 32 22c?
SEPTEMBER 28	eP' 11 36 46.5d	SEPTEMBER 30
U.S.C.G.S.	Resolute Bay	U.S.C.G.S.
18.0S, 178.8W	iP 11 30 13d	49.3N, 129.3W
Fiji Islands	eS 11 39 32?	Off Coast of
H = 17 34 58.8	Seven Falls	Vancouver Island
h = 705 km	eP' 11 36 32	H = 03 20 20.3
Victoria	Shawinigan Falls	h = 79 km
eP 17 46 16	eP' 11 36 33	Alberni
SEPTEMBER 29	Victoria	eP 03 21 15
Resolute	eP 11 30 01	Victoria
eP 00 47 41?	SEPTEMBER 29	eP 03 21 15
SEPTEMBER 29	Resolute Bay	SEPTEMBER 30
U.S.C.G.S.	iP 12 43 44	U.S.C.G.S.
17.3S, 68.5W	SEPTEMBER 29	49.2N, 129.7W
Peru-Bolivia Border	U.S.C.G.S.	Vancouver Island
H = 06 27 56.3	14.9N, 90.3W	region
h = 115 km	Guatemala	H = 06 35 08.9
Halifax	H = 18 54 23.0	h = 55 km
iP 06 38 15.5c	h = 56 km	Alberni
Ottawa	Banff	eP 06 35 59
iP 06 38 15c	eP 19 02 09	Resolute Bay
Resolute Bay	Ottawa	eP 06 41 20?
iP 06 41 04c?	eP 19 00 59	eS 06 46 10?
eS? 06 51 58	Resolute Bay	Victoria
Seven Falls	iP 19 04 27	eP 06 36 11
iP 06 38 25c	eS? 19 12 32?	
Shawinigan Falls	Shawinigan Falls	
iP 06 38 22c	eP 19 01 11	
	Victoria	
	eP 19 02 22	

DOMINION OBSERVATORIES

EARTHQUAKES IN EASTERN CANADA
AND ADJACENT AREAS

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

JULY 9 at 07 34 59 U.T. Magnitude 2.6. Epicentre at 46° 18'N;
73° 02'W. About 18 miles east of St. Gabriel, Que.

JULY 23 at 05 49 07 U.T. Magnitude 2.9. Epicentre at 45° 43'N;
73° 40'W. About 15 miles north of Montreal, Que.

SEISMOLOGICAL BULLETIN - 1960

EARTHQUAKES IN THE CANADIAN ARCTIC

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

JULY 9 at 19 23 09 U.T. Magnitude 2.2. Originated 115 km from Resolute, N.W.T.

AUGUST 6 at 06 22 -- U.T. Magnitude 2.5 - 3.5. Originated 100 - 200 km from Resolute, N.W.T.

AUGUST 13 at 06 40 31 U.T. Magnitude 1.8. Originated 97.4 km from Resolute, N.W.T.

SEPTEMBER 4 at 10 34 04 U.T. Magnitude 2.6. Originated 173 km from Resolute, N.W.T. The seismic trace is abnormal and may have been the result of more than one disturbance. The above interpretation is therefore doubtful.

SEPTEMBER 6 at 21 24 26.4 U.T. Magnitude 5.5. Epicentre at 64.7N 86.4W. Depth 25 km. In the Southampton Island region.

SEPTEMBER 10 at 07 53 01. Magnitude 2.2. Originated 197 km from Resolute, N.W.T.

DOMINION OBSERVATORIES
EARTHQUAKES IN WESTERN CANADA
AND ADJACENT AREAS

The following disturbances were recorded during the third 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.

JULY 3 at 11 02 31.5 U.T. Epicentre at 48.3N, 123.6W, St. of Juan de Fuca; or at 48.7N, 123.2W, North San Juan Island. Q=c.

JULY 4 at 04 28 33 U.T. Magnitude 6 1/2 - 6 3/4. Epicentre at 52N, 131 1/2W. Queen Charlotte Islands. Q=b.

JULY 4 at 08 11 50.4 U.T. Epicentre at 52N, 131W. Queen Charlotte Islands. Q=c.

JULY 4 at 08 51 20 U.T. Epicentre at 52N, 131W. Queen Charlotte Islands. Q=d.

JULY 4 at 11 13 17 U.T. Epicentre at 52N, 130 1/2W. Queen Charlotte Islands. Q=d.

JULY 4 at 12 51 47 U.T. Epicentre at 52N, 131W. Queen Charlotte Islands. Q=d.

JULY 4 at 13 10 05 U.T. Magnitude 6. Epicentre at 52N, 131W. Queen Charlotte Islands. Q=d.

JULY 4 at 18 21 53.4 U.T. Epicentre at 52N, 132W. Queen Charlotte Islands? Q=d.

JULY 6 at 07 03 51.2 U.T. 32 km. from Victoria.

JULY 7 at 20 59 15.0 U.T. 26 km. from Victoria.

JULY 10 at 23 27 44.0 U.T. 27 km. from Victoria.

JULY 11 at 01 31 34.8 U.T. 83 km. from Victoria.

JULY 11 at 21 59 43 U.T. 158 km. from Penticton.

JULY 12 at 05 24 03.6 U.T. 87 km. from Penticton.

JULY 12 at 13 22 11.4 U.T. Epicentre at 48.4N, 125W. Off west coast. Q=c.

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JULY 15 at 21 07 09.7 U.T. Magnitude $2\frac{3}{4}$. 290 km. from Victoria.

JULY 17 at 07 11 50.8 U.T. 31 km. from Banff.

JULY 18 at 09 46 29.8 U.T. 253 km. from Victoria.

JULY 18 at 23 23 09.1 U.T. Magnitude 1.6. 52 km. from Penticton.

JULY 20 at 02 12 13.0 U.T. Magnitude $1\frac{1}{2}$. 178 km. from Penticton.

JULY 20 at 06 54 13.4 U.T. 30 km. from Alberni.

JULY 20 at 21 38 17.5 U.T. Magnitude $2\frac{1}{2}$. 172 km. from Penticton.

JULY 21 at 00 20 49.7 U.T. Magnitude $2\frac{1}{2}$. 186 km. from Penticton.

JULY 21 at 19 09 55.5 U.T. Magnitude 3? 213 km. from Penticton.

JULY 22 at 07 18 05.4 U.T. Magnitude $4\frac{1}{4}$. 367 km. from Penticton.

JULY 22 at 14 22 43.8 U.T. Magnitude $2\frac{3}{4}$. 172 km. from Penticton.

JULY 22 at 23 45 45.9 U.T. Magnitude $1\frac{1}{2}$. 108 km. from Victoria.

JULY 23 at 17 54 19.0 U.T. Magnitude 2. 127 km. from Victoria.

JULY 25 at 20 06 31.5 U.T. 148 km. from Penticton.

JULY 26 at 18 46 31.4 U.T. Magnitude 1. 28 km. from Banff.

JULY 27 at 15 36 33 U.T. Magnitude $1\frac{1}{2}$. 25 km. from Banff.

JULY 27 at 16 08 56 U.T. Magnitude $1\frac{1}{4}$. 26 km. from Penticton.

JULY 27 at 16 44 36.8 U.T. 68 km. from Alberni and 52 km. from Penticton.

JULY 28 at 07 21 54.3 U.T. Magnitude $2\frac{1}{4}$. Epicentre at 47.8N, 121.8W. 40 km. northeast of Seattle, Washington, U.S.A. $Q=b$.

JULY 28 at 09 10 14.0 U.T. Epicentre at 48 $\frac{1}{2}$ N, 122W. 40 km. southeast of Bellingham, Washington, U.S.A. $Q=c$.

DOMINION OBSERVATORIES

JULY 28 at 20 40 53.5 U.T. 160 km. from Penticton.

JULY 29 at 20 53 11.8 U.T. 185 km. from Penticton.

JULY 30 at 06 06 46.6 U.T. 39 km. from Penticton.

JULY 30 at 20 24 48.4 U.T. 115 km. from Penticton.

AUGUST 1 at 01 45 43.7 U.T. Magnitude 2. Epicentre at 48.9N,
121.7W. Northeast of Mount Baker. Q=c.

AUGUST 1 at 02 00 42.7 U.T. 10 km. from Penticton.

AUGUST 2 at 03 46 30 U.T. 85.3 km. from Penticton.

AUGUST 2 at 06 51 14.9 U.T. Magnitude 2. 73 km. from Penticton.

AUGUST 2 at 16 51 16.2 U.T. Magnitude 2. 66 km. from Penticton.

AUGUST 4 at 01 37 53.8 U.T. Magnitude 2 3/4. 270 km. from
Penticton.

AUGUST 5 at 03 24 32.3 U.T. Magnitude 2 3/4? 117 km. from
Victoria.

AUGUST 9 at 10 47 18.9 U.T. Magnitude 2 3/4. Epicentre at
48 3/4N, 121 3/4W. Near Mount Baker. Q=b.

AUGUST 12 at 03 38 17.2 U.T. Magnitude 2 1/2. 200 km. from
Penticton.

AUGUST 12 at 16 01 33.1 U.T. Magnitude 1 3/4. 113 km. from
Victoria and 67 km. from Alberni.

AUGUST 14 at 07 37 28.8 U.T. Magnitude 2. Epicentre at 48.7N,
124.8W. Near Clo-oose. Q=c.

AUGUST 16 at 13 27 53.5 U.T. Magnitude 4. Epicentre at 47.7N,
116.3W. North of Kellogg, Montana, U.S.A. Q=c.

AUGUST 17 at 06 39 17.6 U.T. 64 km. from Alberni.

AUGUST 18 at 18 30 31.8 U.T. Magnitude 2.4. 225 km. from
Penticton.

AUGUST 18 at 21 10 54.7 U.T. Magnitude 2.0. 139 km. from
Penticton.

SEISMOLOGICAL BULLETIN - 1960

- AUGUST 18 at 22 59 45.7 U.T. Magnitude 2.4. 164 km. from Penticton.
- AUGUST 20 at 18 00 22.0 U.T. 50 km. from Alberni.
- AUGUST 20 at 21 34 57.5 U.T. 53 km. from Alberni.
- AUGUST 22 at 06 19 19.2 U.T. 380 km. from Penticton.
- AUGUST 23 at 21 45 55.1 U.T. 37 km. from Banff.
- AUGUST 24 at 18 27 31 U.T. Magnitude 2.4. 172 km. from Penticton.
- AUGUST 24 at 20 10 29.4 U.T. Magnitude 2. Epicentre at 47.7N, 122.3W. Near Seattle, Washington, U.S.A. Q=c.
- AUGUST 25 at 00 31 43 U.T. Magnitude 2.3. 156 km. from Penticton.
- AUGUST 25 recorded at 19 00.6 at Alberni and Victoria.
- AUGUST 27 at 19 07 42.4 U.T. 23 km. from Victoria.
- AUGUST 30 at 16 33 02.9 U.T. 126 km. from Victoria.
- SEPTEMBER 5 at 10 48 00 U.T. Magnitude 2.7. 186 km. from Penticton. Q=d.
- SEPTEMBER 5 at 14 31 55 U.T. Magnitude 3.0. Epicentre at 47.7N, 121.6W. East of Seattle, Washington, U.S.A. Q=b.
- SEPTEMBER 6 at 13 05 30 U.T. Magnitude 2. 107 km. from Victoria.
- SEPTEMBER 7 at 21 52 30 U.T. Magnitude 2.1. 115 km. from Penticton.
- SEPTEMBER 10 at 15 06 32.5 U.T. Magnitude 5. Epicentre at 47.5N, 122.7W. Near Seattle, Washington, U.S.A. Felt: Western Washington, U.S.A.
- SEPTEMBER 10 at 17 52 26 U.T. Magnitude 2.1. 157 km. from Victoria, 60 km. from Alberni.
- SEPTEMBER 10 at 19 21 04 U.T. Magnitude 2.5. Probably after-shock of Seattle, Washington, U.S.A. tremor.
- SEPTEMBER 11 at 04 29 13.6 U.T. Magnitude 2.5. 62 km. from Victoria, 172 km. from Alberni.

SEISMOLOGICAL BULLETIN - 1960

SEPTEMBER 30 at 03 20 20.3 U.T. Epicentre at 49.3N, 129.3W.
Off coast of Vancouver Island, B.C.

SEPTEMBER 30 at 06 35 08.9 U.T. Epicentre at 49.2N, 129.7W.
Vancouver Island region, B.C.