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Seismological Bulletin

*Seismological Service
of Canada*

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**January-March
1957**

*Dominion Observatory,
Department of Mines and
Technical Surveys, Ottawa*

SEISMOLOGICAL BULLETIN - 1957

This report lists the instrumental results obtained at the seismological stations maintained by the Seismological Service of Canada. These are divided into two divisions.

Eastern Division

Ottawa, Ontario -

Dominion Observatory, Dept. of Mines and Technical Surveys.

Halifax, Nova Scotia -

Operated by Dalhousie University for the Dominion Observatory.

Schefferville, Quebec -

Operated by McGill University for the Dominion Observatory.

Seven Falls, Quebec -

Owned by the Quebec Power Company; operated by the Company for the Dominion Observatory.

Shawinigan Falls, Quebec -

Owned by the Shawinigan Water and Power Co.; operated by the Company for the Dominion Observatory.

Kirkland Lake, Ontario -

Owned and operated by the Dominion Observatory.
F. J. Hallick in charge.

Resolute, Northwest Territories -

Owned and operated by the Dominion Observatory,
D. F. Young in charge.

The records of all stations of the Eastern Division are stored at Ottawa. Local earthquakes are interpreted by means of travel-time curves based on rockburst studies. (See J. H. Hodgson, Publication of the Dominion Observatory, XVI, Nos. 5 and 6).

DOMINION OBSERVATORIES

Western Division

Victoria, British Columbia -
Dominion Astrophysical Observatory, Dept. of Mines
and Technical Surveys, Royal Oak, B.C.

Saskatoon, Saskatchewan -
Operated by the University of Saskatchewan for the
Dominion Observatory.

Banff, Alberta -
Operated by the Banff School of Fine Arts for the
Dominion Observatory.

Horseshoe Bay, British Columbia -
Owned and operated by the Dominion Observatory.
W.S. Blacklock in charge.

Alberni, British Columbia -
Owned and operated by the Dominion Observatory.
W.N. Burgess in charge.

The records of all stations of the Western Division are
stored at Victoria.

The station at Schefferville is an experimental installation.

Continuous operation will not be attempted during the current year but records
of particular earthquakes may be available. The station formerly known as
Resolute Bay is now called Resolute; this is in accordance with a decision of
the Canadian Board on Geographical Names.

John H. Hodgson,
Chief, Division of Seismology.

STATION	POSITION AND ELEVATION	FOUNDATION	INSTRUMENT	T _s T _g		MAGNIFICATION AT 1 cycle/sec.	DAMPING	PAPER SPEED mm/min.	TIME MARK ZERO	GROUND MOTION- TRACE UP
Alberni	49°16'14"N 124°49'18"W	Basic volcanic rock	Willmore- Sharpe Z	0.3	0.03	700	Near critical	60	End	Up
			NS	0.3	0.03	700	Near critical	60	End	South
			EW	0.3	0.03	700	Near critical	60	End	East
Banff	51°10.3' N 115°33.5' W	Rock	Willmore- Watt Z	1.0	0.25	9,000	Critical	53.4	End	Up
Halifax	44°38' N 63°36' W h = 46 m.	Carbonaceous slate	Benloff Z	1.0	0.2	39,000	Critical	60	End	Up
			Willmore Z	1.0	1.65	16,000	Near critical	30	End	Up
			Sprengnether NS Sprengnether EW	20 20	20 20	380 380	Critical Critical	30 30	End End	North East
Horseshoe Bay	49°22'39"N 123°16'33"W	Granodiorite	Willmore-Watt Z	1.0	.03	4,500	Near critical	60	End	Down
			NS	1.0	.03	6,000	Near critical	60	End	South
			EW	1.0	.25	18,000	Near critical	60	End	West
Kirkland Lake (see also page 6)	48°08'41"N 80°01'45"W h = 310 m.	Precambrian basement	Sprengnether Z	1.4	1.4	9,000	Critical	60	End	Up
			Willmore- Watt Z	1.0	20		Near critical	60	End	Up
Ottawa (see also page 7)	45°23'38"N 75°42'57"W h = 83 m.	Boulder clay over lime- stone	Benloff Z	1.0	0.2	21,000	Critical	60	End	Up
			Benloff Z	1.0	75	2,300	Near critical	30	End	Up
			Milne-Shaw NS Milne-Shaw EW	12 12		300 300	20:1 20:1	15 15	End End	South West

STATION	POSITION AND ELEVATION	FOUNDATION	INSTRUMENT	T		MAGNIFICATION AT 1 cycle/sec.	DAMPING	PAPER SPEED mm/min.	TIME MARK ZERO	GROUND MOTION- TRACE UP
				T _s	T _g					
Resolute	74° 41' N 94° 54' W h = 5 m.	Early Palaeozoic Limestone	Sprengnether Z	1.4	1.4	9,000	Critical	60	End	Up
			Sprengnether NS	14.1	14.1	450	Critical	60	End	North
			Sprengnether EW	16.0	16.0	450	Critical	60	End	East
	At a point 1000' N15° W of above	Permafrost	Columbia Z	12.2	12.5		Near critical	30	End	Up
Saskatoon	52° 08' N 106° 38' W h = 515 m.	Clay and Sand	Milne-Shaw NE/SW	12		150	20:1	8	End	NE
			Milne-Shaw NW/SE	12		150	20:1	8	End	SE
Schefferville	54° 49' N 66° 41' W h = 512 m.	Precambrian basement rock	Willmore-Watt Z	1.0	0.25	9,000	Near critical	53.4	End	Up
Seven Falls	47° 07.4' N 70° 49.6' W h = 232 m.	Precambrian basement rock	Wood-Anderson EW	1.0		2,200	15:1	60	End	East
			Milne-Shaw EW	12		300	20:1	8	End	East
			Benioff Z	1.0	0.2	50,000 ca.	Critical	60	End	Up
Shawinigan Falls (see also page 8)	46° 33.1' N 72° 45.8' W h = 60 m.	Precambrian basement rock	Wood-Anderson NS	1.0		1,600	15:1	60	End	North
			Willmore Z	1.0	2.0	28,000 ca.	Critical	60	End	Up
Victoria	48° 31' 09.9" N 123° 24' 55.1" W h = 197 m.	Quartz Diorite	Benioff Z	1.0	0.2	29,000	Near critical	60	End	Up
			Benioff NS	1.0	0.2	33,000	Near critical	60	End	South
			Benioff EW	1.0	0.2	27,000	Near critical	60	End	East
			Benioff Z	1.0	80	5,600	Over- damped	30	End	Up
			Benioff NS	1.0	80	4,200	Under- damped	30	End	North
			Benioff EW	1.0	80	2,700	Over- damped	30	End	East
			Milne-Shaw EW	12		300	20:1	8	End	West
Milne-Shaw NS	12		300	20:1	8	End	North			

SEISMOLOGICAL BULLETIN - 1957

Explanation of Calibration Curves

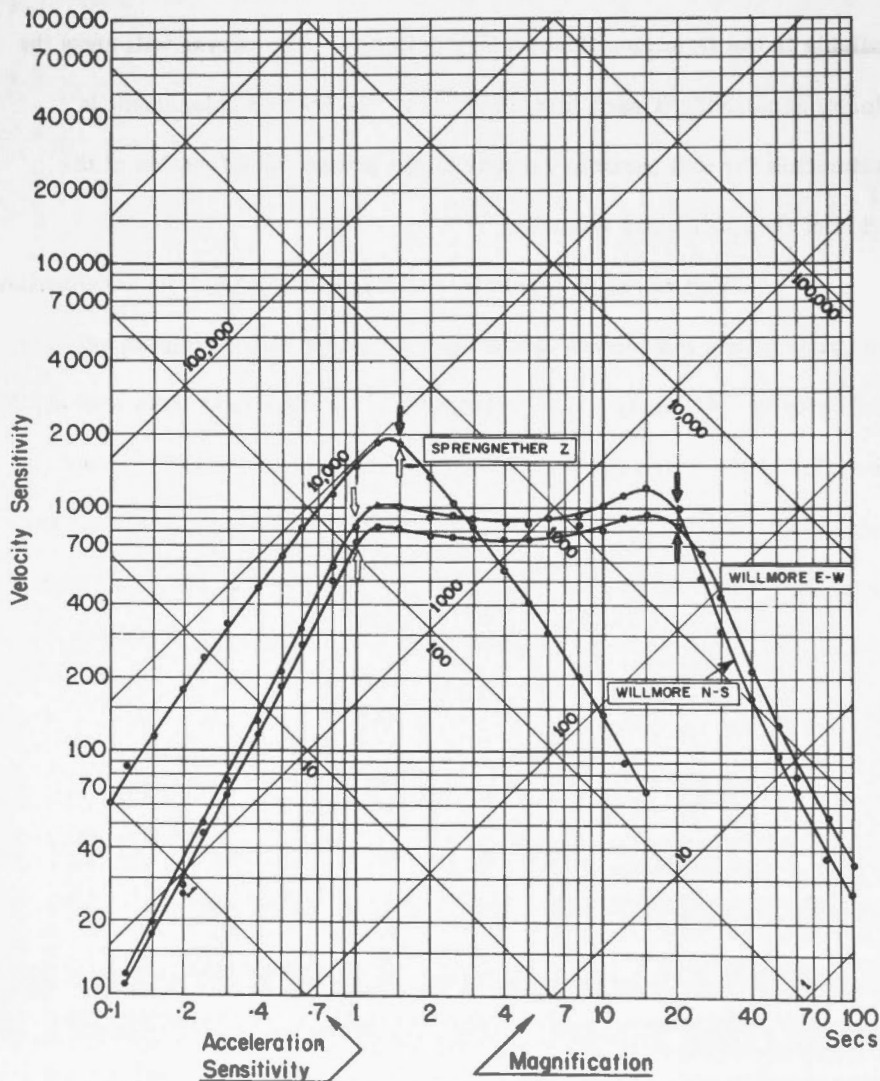
Calibration curves for all the seismographs of the Canadian network are now being determined, and will be reproduced as they become available in the Dominion Observatory bulletins. The curves will show the velocity sensitivity of each instrument (i. e. the trace displacement in centimetres for unit particle velocity in the ground) as a function of the period of the earthquake waves.

For waves of period T , the magnification and the acceleration sensitivity of any instrument can be determined by multiplying the velocity sensitivity by $\frac{2\pi}{T}$ or by $\frac{T}{2\pi}$ respectively. To facilitate these conversions, the scales of the graph can be used like a slide rule. Lines of constant magnification and of constant acceleration sensitivity are ruled across each graph, the former sloping upwards from left to right, and the latter from right to left. To find the magnification of an instrument for ground waves of any given period, place one point of a pair of dividers on the calibration curve at the appropriate period, and adjust the other point to rest vertically below the first on a magnification line. Move the dividers so that the lower point falls on a horizontal grid line marked with an exact power of 10. The upper point of the dividers will then indicate the magnification. The decimal multiplier will be determined by the fact that the magnification must lie between the values indicated on the datum lines above and below the calibration point. The acceleration sensitivity can be found in the same way as the magnification, starting with an acceleration datum line.

DOMINION OBSERVATORIES

CALIBRATION CURVES

STATION: KIRKLAND LAKE



$\phi = 48^{\circ} 08' 41''N$ $\lambda = 80^{\circ} 01' 45''W$ Altitude 310m

Foundation : Precambrian basement

$T_s \uparrow$

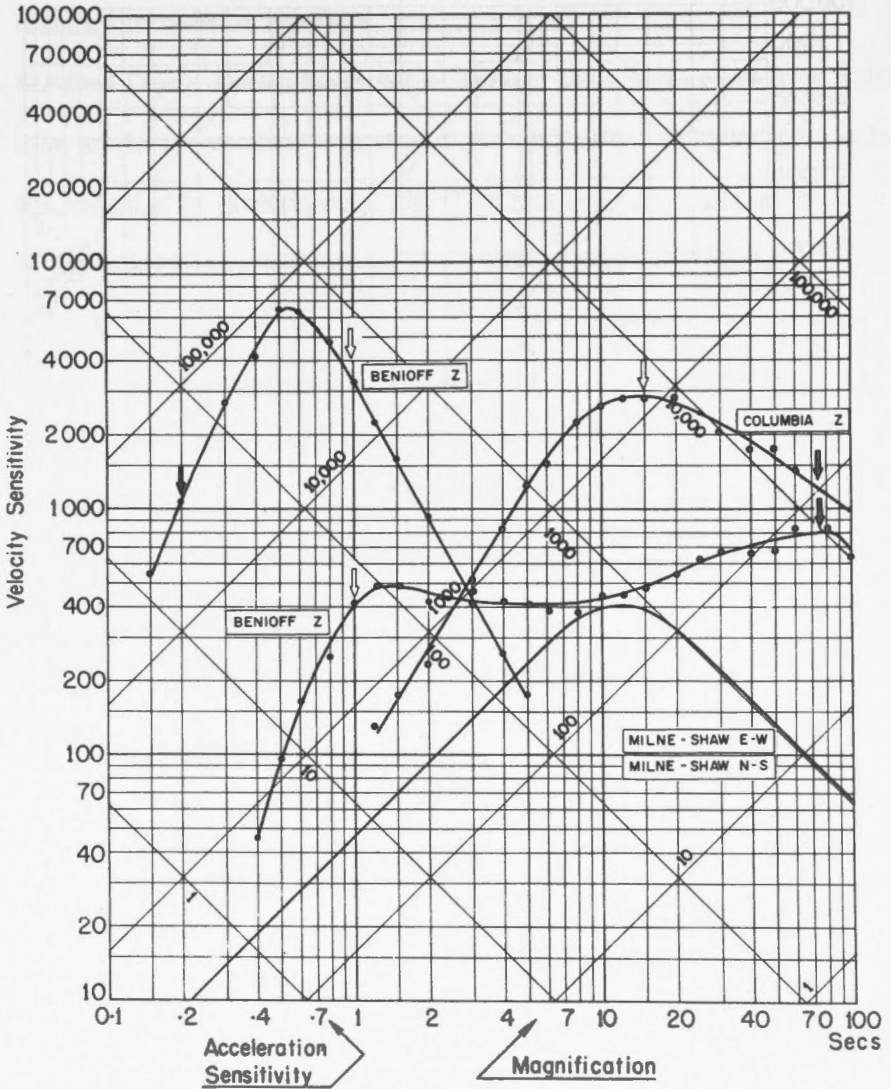
$T_g \uparrow$

Date of Calibration: January 31st, 1957

SEISMOLOGICAL BULLETIN - 1957

CALIBRATION CURVES

STATION: OTTAWA



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

Foundation : Boulder clay on limestone

$T_s \uparrow$

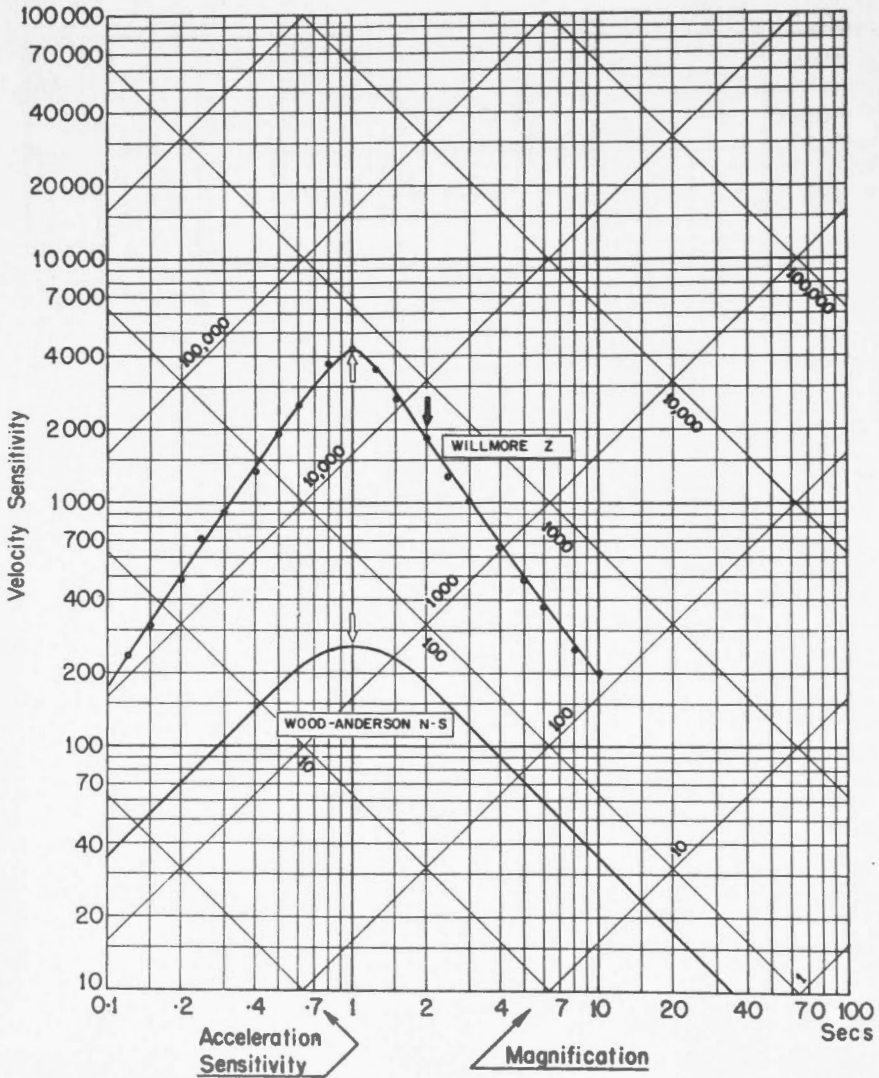
$T_g \uparrow$

Date of Calibration: April 18th, 1957

DOMINION OBSERVATORIES

CALIBRATION CURVES

STATION: SHAWINIGAN FALLS



$\phi = 46^{\circ} 33.1' N$ $\lambda = 72^{\circ} 45.8' W$ Altitude 60m

Foundation : Precambrian basement

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: December 10th, 1956.

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Notes

1. Halifax. The 1.65 sec. galvanometer which was operating with the Willmore Z was replaced by a galvanometer having a period of 2.0 seconds. The change was made on March 14.
2. Kirkland Lake. During the month of January the crystal clock from which time marks are obtained continued to give difficulty. Questionable readings are indicated by parentheses. The clock was replaced with a chronometer on January 20. The instruments described on page 3 and page 6 of this bulletin were installed on February 1. Prior to that date the instruments listed in the 1956 bulletin were in operation.
3. Schefferville. There were very few time corrections or minute marks during the quarter. Shocks that could be identified with reasonable certainty are included in the bulletin, the time uncertainties being indicated by parentheses. Directions of initial motion are given where possible.
4. Seven Falls. Time corrections erratic during the quarter. Uncertain times are indicated by question marks.
5. Hamilton. Mr. Edward Mantle, 454 King William Street, Hamilton, Ontario, operates a private station with coordinates $43^{\circ} 15' N$, $79^{\circ} 51' W$. We are grateful to Mr. Mantle for allowing us to include his readings for many of the Aleutian earthquakes of March.

DOMINION OBSERVATORIES

1. Halifax. The 1.50 watt transmitter was operating with the following
frequency of a cycle, the period being 2.5 seconds. The
transmission was made on a wave of 120 meters.
2. Western Lake. The transmitter was operating with the following
frequency of a cycle, the period being 2.5 seconds. The
transmission was made on a wave of 120 meters.
3. ...
4. ...
5. ...

SEISMOLOGICAL BULLETIN - 1957

JANUARY - MARCH

JANUARY 1

U. S. C. G. S.
53 1/2N, 159E
Kamchatka
H = 00 56 40

Banff

e 01 05 23
Horseshoe Bay
iP 01 04 56 c
Ottawa
iP 01 07 46 d
pP 01 08 12

Resolute

iP 01 04 32 c
Seven Falls
iP 01 05 47?c
Shawinigan Falls
eP 01 07 46
Victoria
iP 01 04 59 c

JANUARY 1

U. S. C. G. S.
54 1/2N, 164W
Unimak Island, Aleutian
Islands
H = 03 25 05

Ottawa

iP 03 34 32 d
Resolute
eP 03 31 45
Seven Falls
eP 03 32 41?
Shawinigan Falls
iP 03 34 37 c

JANUARY 1

Banff
iP 17 10 24.3
i(S) 17 10 24.7
Local shock

JANUARY 2

U. S. C. G. S.
53N, 168 1/2W
Fox Islands foreshock
H = 00 39 22

Banff

eP 00 45 55 c?
e 00 48 44
Halifax
eP 00 49 58
iS 00 58 38
eL 01 19.1

Horseshoe Bay

eP 00 45 26
Kirkland Lake
eP 00 48 (38) c
Ottawa
iP 00 49 11 c
PP 00 51 19
S 00 57 10
e 00 57 38
S_cS 00 59 04
SS 01 01 04
SSS 01 03 04

Resolute

iP 00 46 25 c
P_cP 00 48 55
eS 00 51 01
S_cS 00 56 30
eL 00 59 06

Saskatoon

e 00 52 16
e 00 57.0

Seven Falls

eP 00 47 17?c
P_cP 00 47 58?
S 00 55 26?
PS 00 55 54?
S_cS 00 57 09?
e 00 58 04?
SS 00 59 30
eL 01 01 44

Shawinigan Falls

iP 00 49 16 c
Victoria
eP 00 45 21

JANUARY 2

Resolute
e 02 22 35

JANUARY 2

U. S. C. G. S.
52 1/2N, 168W
Fox Islands foreshock
H = 02 17 35

Banff

eP 02 24 08
Halifax
eP 02 28 12
eL 02 58.0

Horseshoe Bay

e 02.23 33
e 02 28 09

Kirkland Lake

eP 02 26 (54) c?

Ottawa

iP 02 27 27 c
PP 02 29 37
S 02 35 20
PS 02 35 40
PPS 02 35 55
S_cS 02 37 20
SS 02 39 12

Resolute

iP 02 24 39 c
eP_cP 02 26 46
eS 02 30 36
eL 02 38 51

Saskatoon

e 02 24 53
i 02 30 28

Seven Falls

eP 02 25 32?
iPP 02 25 52?
S 02 23 36?
PS 02 33 54?
SS 02 38 02?
L 02 40 06?

Shawinigan Falls

eP 02 27 31
Victoria
eP 02 23 33
e 02 26 58

DOMINION OBSERVATORIES

JANUARY 2

U. S. C. G. S.
53N, 168W
Fox Islands foreshock
H = 03 12 52
Banff
P 03 19 25 c?
Halifax
eP 03 23 31
Horseshoe Bay
e 03 23 49
Kirkland Lake
eP 03 23 (10) d?
Ottawa
iP 03 22 40 d
P_cP 03 23 45
Resolute
eP 03 19 55
e 03 35 01
Seven Falls
eP 03 20 47?
L 03 38 17?
Shawinigan Falls
iP 03 22 46
Victoria
eP 03 18 50
e 03 22 12

JANUARY 2

U. S. C. G. S.
52 1/2N, 168 1/2W
Fox Islands foreshock
H = 03 30 34
Banff
eP 03 37 04 c
Kirkland Lake
eP 03 39 (48) d?
Ottawa
iP 03 40 22 c
Resolute
eP 03 37 35
Schefferville
iP (03 37 13) d
Seven Falls
eP 03 38 29?
Shawinigan Falls
iP 03 40 26 c

JANUARY 2

U. S. C. G. S.
52 1/2N, 168 1/2W
Fox Islands foreshock
H = 03 41 08
Banff
eP 03 47 39
Kirkland Lake
eP 03 50 (26)
Ottawa
iP 03 50 56 d
PP 03 53 05
Resolute
eP 03 48 10
Schefferville
iP (03 47 49) d
Seven Falls
eP 03 49 03?
Shawinigan Falls
iP 03 51 02 c

JANUARY 2

U. S. C. G. S.
53N, 168W
Fox Islands Aleutian
Islands
H = 03 48 44
Banff
eP 03 55 17

Halifax
eP 03 59 18
Horseshoe Bay
eP 03 54 44
Kirkland Lake
eP 03 58 (03) c
i 03 58 (27) d
Ottawa
iP 03 58 33 d
Resolute
iP 03 55 48 c
iS 04 02 03
Schefferville
eP 03 55 24 d
Seven Falls
eP 03 56 39?
Shawinigan Falls
iP 03 58 38 c

Victoria

eP 03 54 45
eP_cP 03 57 54

JANUARY 2

U. S. C. G. S.
52 1/2N, 169W
Fox Islands aftershock
H = 04 03 26
Banff
eP 04 10 01
Kirkland Lake
eP 04 12 (45) d
Ottawa
iP 04 13 19 c
PP 04 15 24
Resolute
eP 04 10 34
Schefferville
iP (04 10 09) c
Seven Falls
eP 04 11 25?
Shawinigan Falls
iP 04 13 24 c
Victoria
eP 04 09 31

JANUARY 2

Alberni
iP 06 29 15.5
iS 06 29 26.1
Horseshoe Bay
iP 06 29 34.4
Victoria
eP 06 29 20.9
S 06 29 51.6

JANUARY 2

U. S. C. G. S.
52 1/2N, 168W
Fox Islands aftershock
H = 10 49 32
Banff
eP 10 56 03
Halifax
eL 11 21 20

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Kirkland Lake	JANUARY 2	Ottawa
eP 10 58 (46) c	Alberni	iP 00 50 49 c
Ottawa	iP 13 47 44.2	i 00 51 05
iP 10 59 20 c	iS 13 47 52.7	Resolute
PP 11 01 30	Horseshoe Bay	iP 00 48 01 c
S 11 07 16	iP 13 47 34.4 c	eS 00 53 16
PS 11 07 34	Local shock	eL 01 03 33
PPS 11 07 50		Schefferville
S _c S 11 09 10		iP (00.8)
SS 11 11 04	JANUARY 2	Seven Falls
L 11 13 20	Kirkland Lake	iP 00 48 54?
Resolute	eP 15 26 (20)	Shawinigan Falls
iP 10 56 34 c		iP 00 50 54 c
eS 11 02 04		Victoria
eL 11 06 21	JANUARY 2	eP 00 47 02
Schefferville	U. S. C. G. S.	e 00 47 09 d
eP (10 56 06) d	53N, 168W	
Seven Falls	Fox Islands aftershock	JANUARY 3
eP 10 57 25?	H = 17 51 56	U. S. C. G. S.
S 11 05 29?	Ottawa	20S, 69W
SS 11 09 48?	eP 18 01 44	Northern Chile
L 11 12 00?	Resolute	H = 02 42 00
Shawinigan Falls	eP 17 58 54	Kirkland Lake
iP 10 59 24 c	eS 18 04 29	eP 02 53 (26) c
	eL 18 13 17	Ottawa
	Seven Falls	iP 02 53 06 c
	eP 17 59 49?	Shawinigan Falls
	Shawinigan Falls	eP 02 53 12 c
	eP 18 01 49	
JANUARY 2	JANUARY 2	JANUARY 3
U. S. C. G. S.	Alberni	Alberni
53N, 168W	iP 21 39 17.1	iP 06 06 41.2
Fox Islands aftershock	iS 21 39 28.5	e 06 06 52.7
H = 12 47 07	Horseshoe Bay	Horseshoe Bay
Banff	iP 21 39 08.7	iP 06 06 33.1
eP 12 53 39	Local shock	Victoria
Kirkland Lake		iP 06 06 45.4
eP 12 56 (16)	JANUARY 3	iS 06 07 00.3
Ottawa	U. S. C. G. S.	Local shock
iP 12 56 56 d	53N, 168W	
Resolute	Fox Islands aftershock	JANUARY 3
iP 12 54 08 c	H = 00 41 02	Horseshoe Bay
e 12 58 09	Banff	iP 07 30 29.8
eL 13 06 30	eP 00 47 32 c	Local shock
Schefferville	Kirkland Lake	
iP (12 53 38) d	eP 00 50 (22) c	
Seven Falls		
eP 12 55 01?		
Shawinigan Falls		
iP 12 57 00 d		

DOMINION OBSERVATORIES

JANUARY 3

Banff
eP 07 49 10

Saskatoon

iP 12 58 57
iS 13 07 39
iS_cS 13 08 09
isS 13 11 09

JANUARY 3

U. S. C. G. S.
44N, 130E
Manchuria aftershock
H = 13 43 29

JANUARY 3

Resolute
eP 11 51 49

Schefferville

iP (13.0) c

Banff

iP 13 53 43 c

Seven Falls

iP 12 58 11? c

Kirkland Lake

eP 13 55 (09)

i 12 58 26?

Ottawa

eP 13 55 21 c

i 12 59 01?

pP 13 00 18?

Resolute

iP 13 52 29 c

i 13 00 22?

PP 13 01 48?

SKS 13 07 41?

iS_cP 13 56 17

eS 13 59 44

iS 13 08 00?

Victoria

iP 13 52 31 c

SP 13 08 56?

e 13 11 26?

isS 13 11 45?

e 13 13 30?

iSS 13 14 11?

G 13 16 26?

Shawinigan Falls

iP 13 00 16 c

SP 13 02 24

PP 13 03 56

pPPP 13 06 36

SKS 13 09 48

S 13 10 08

e 13 10 51

SP 13 11 13

Victoria

iP 12 58 28.9 c

epP 13 00 23

e 13 06 41

e 13 07 35

eS 13 10 09

SS 13 11 25

e 13 28 04

2 13 29 28

JANUARY 3

Resolute

e(P) 13 26 20

e 13 28 45

e 13 41 01

e 13 42 34

JANUARY 3

Kirkland Lake

eP 14 24 (26)

Ottawa

eP 20 43 03 d

Resolute

eP 20 42 58

JANUARY 4

Resolute

eP 06 06 00

JANUARY 4

U. S. C. G. S.

7N, 78W

Near coast of Columbia

H = 12 36 10

Banff

eP 12 46 27

Kirkland Lake

e(P) 12 44 (13)

Ottawa

eP 12 43 51 d

Resolute

eP 12 47 28

Seven Falls

eP 12 41 58? c

Shawinigan Falls

eP 12 44 04

i 12 44 20

JANUARY 3

U. S. C. G. S.
44N, 130E
Southern Manchuria
H = 12 48 27

Alberni

iP 12 58 24

Banff

iP 12 58 41 c

Halifax

iP 13 00 33 c

epP 13 02 32

SKS 13 10 07

S 13 10 43

SS 13 14 22

Horseshoe Bay

iP 12 58 26

iS 13 06 35

iS_cS 13 07 29

Kirkland Lake

iP 13 00 (06) c

ipP 13 02 (11) c

eSKS 13 09 (41)

Ottawa

iP 13 00 19 c

i 13 01 14

i 13 02 25

pP 13 03 05

i 13 04 51

SKS 13 09 49

S 13 10 10

SS 13 13 42

SS 13 16 24

G 13 19 05

Resolute

iP 12 57 26 c

epP 12 59 17

eS_cP 13 01 14

eS 13 04 42

esP 13 06 16

eG 13 11 48

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- JANUARY 5**
 U. S. C. G. S.
 44 1/2N, 149 1/2E
 Kurile Islands
 H = 01 12 16
 Resolute
 eP 01 21 41
- JANUARY 5**
 Alberni
 iP 13 58 35.2
 iS 13 58 46.8
 Horseshoe Bay
 iP 13 58 25.1
 Victoria
 iP 13 58 38.4
 iS 13 58 53.1
 Local shock
- JANUARY 5**
 U. S. C. G. S.
 54N, 165W
 South of Unimak Island,
 Aleutian Islands
 H = 17 15 15
 Resolute
 eP 17 22 02
- JANUARY 5**
 Victoria
 iP 19 00 33 d
- JANUARY 6**
 U. S. C. G. S.
 1/2S, 20W
 Mid-Atlantic Ocean
 H = 00 18 23
 Kirkland Lake
 eP 00 29 (36)
 Ottawa
 iP 00 29 17 c
 Resolute
 eP 00 31 16
 Shawinigan Falls
 iP 00 29 08
- JANUARY 6**
 U. S. C. G. S.
 26N, 126E
 Ryukyu Islands
 H = 01 36 58
 Resolute
 iP 01 48 45 d
 Victoria
 eP 01 49 24 d
- JANUARY 6**
 U. S. C. G. S.
 42N, 142E
 Near south coast of
 Hokkaido, Japan
 H = 05 15 06
 Ottawa
 eP 05 27 42
 Resolute
 eP 05 24 49
- JANUARY 6**
 Alberni
 iP 11 06 50.7 c
 iS 11 06 56.2
 Horseshoe Bay
 iP 11 06 29.5 d
 Local shock
- JANUARY 6**
 U. S. C. G. S.
 Near south coast of
 Mindanao, Philippine
 Islands
 H = 20 23 37
 Halifax
 i 20 42 40 d
 Resolute
 eP 20 36 50
 Shawinigan Falls
 iP' 20 42 32 c
- JANUARY 6**
 Shawinigan Falls
 iP 20 51 41 c
- JANUARY 7**
 Resolute
 eP 02 33 32
- JANUARY 7**
 Resolute
 eP 16 57 50
- JANUARY 8**
 U. S. C. G. S.
 2S, 99E
 Off west coast of
 Sumatra
 H = 05 22 26
 Resolute
 eL 06 25 18
- JANUARY 8**
 Alberni
 iP 13 46 44.1
 iS 13 47 06.5
 Horseshoe Bay
 iP 13 46 38.1
 Victoria
 iP 13 46 27.1 c
 iS 13 46 38.3
 Local shock
- JANUARY 8**
 U. S. C. G. S.
 52 1/2N, 168W
 Fox Islands aftershock
 H = 17 29 36
 Kirkland Lake
 e(P) 17 39 06
 Ottawa
 eP 17 39 26 d
 Resolute
 iP 17 36 39 c
 eS 17 41 45
 eL 17 51 07
 Seven Falls
 eP 17 37 21? d
 Shawinigan Falls
 eP 17 39 30 d

DOMINION OBSERVATORIES

JANUARY 8

Horseshoe Bay
iP 17 05 28.4
Local shock

JANUARY 8

Banff
eP 20 31 39
Local shock

JANUARY 9

U. S. C. G. S.
54N, 169W
Kormandorskie Islands
H = 01 38 50
Banff
eP 01 46 49
Resolute
eP 01 46 28

JANUARY 9

U. S. C. G. S.
New Britain region
H = 06 15 37
Halifax
eL 07 55.0
Ottawa
iP' 06 34 42 d
Seven Falls
eP' 06 32 31

JANUARY 9

U. S. C. G. S.
53N, 167 1/2W
Fox Islands aftershock
H = 07 52 56
Banff
eP 07 59 18
Horseshoe Bay
e 08 02 52
e 08 03 18
e 08 07.2
Kirkland Lake
eP 08 02 24

Ottawa

iP 08 02 41 d
S 08 10 32
S_cS 08 12 30
SS 08 14 40

Resolute

iP 07 59 55 c
eS 08 05 33
eL 08 07 55

Schefferville

eP (08 02 25) c

Seven Falls

eP 08 00 37? d
S 08 08 38?
SS 08 02 48?
G 08 05 05?

Shawinigan Falls

eP 08 02 46 d

Victoria

eP 07 58 54
eS 08 03 35
eL 08 05.1

JANUARY 9

U. S. C. G. S.
5N, 83W
Off south coast of
Panama
H = 09 23 40
Ottawa
eP 09 31 11
Seven Falls
eP 09 29 28?

JANUARY 9

U. S. C. G. S.
7 1/2N, 69 1/2W
Venezuela
H = 09 56 23
Resolute
eL 10 24 15

JANUARY 9

Shawinigan Falls
eP 10 21 48

JANUARY 9

U. S. C. G. S.
34 1/2N, 141E
Off east coast of
Honshu, Japan
H = 10 27 45
Resolute
eP 10 38 22 c
i 10 38 23 d
Schefferville
iP (10 40.2) d

JANUARY 9

Victoria
eP 22 33 57.2
iS 22 34 08.5
Local shock

JANUARY 10

Alberni
eP 01 59 59.0
eS 02 00 20.0
Horseshoe Bay
iP 01 59 47.2
iS 02 00 00.0
Victoria
iP 01 59 41.0 d
iS 01 59 48.7
i 01 59 53.3
Local shock

JANUARY 10

U. S. C. G. S.
6W, 95 1/2E
Northern Sumatra
H = 04 14 44
Resolute
eL 04 53 42

JANUARY 10

Resolute
e 06 47 01

SEISMOLOGICAL BULLETIN - 1957

JANUARY 11
Alberni
iP 12 38 32.2
iS 12 38 41.5
Local shock

JANUARY 11
U. S. C. G. S.
27N, 127 1/2E
Ryukyu Islands
H = 23 31 50
Resolute
iP 23 43 31 d

JANUARY 13
U. S. C. G. S.
38 1/2N, 71E
Tadshik, S. S. R.
H = 11 38 15
Resolute
eP 11 49 05
Schefferville
eP (11 43.2) c

JANUARY 13
U. S. C. G. S.
32 1/2N, 142 1/2E
About 200 miles off east
coast of Honshu, Japan
H = 12 20 00
Resolute
iP 12 30 50 c

JANUARY 14
U. S. C. G. S.
11S, 163E
Solomon Islands
H = 00 28 38
Resolute
ePS 00 56 07
eL 01 18 46

JANUARY 14
Alberni
iP 03 51 41.6
iS 03 51 55.5
Victoria
iP 03 51 37.0
iS 03 51 46.4
i 03 51 48.1

JANUARY 14
U. S. C. G. S.
20S, 69W
Tarapaco Province,
Chile
H = 05 36 03
Ottawa
eP 05 46 32
Shawinigan Falls
iP 05 46 39 d

JANUARY 15
U. S. C. G. S.
2S, 76 1/2W
Ecuador
H = 04 09 15
Kirkland Lake
eP 04 18 02
Ottawa
iP 04 17 43 d
pP 04 18 01 d
i 04 18 39
PP 04 19 41 d
Resolute
eP 04 21 24
e 04 39 49
eG 04 47 10
Schefferville
iP (04.4) d
Shawinigan Falls
eP 04 17 53
pP 04 18 10
i 04 18 49

JANUARY 15
U. S. C. G. S.
6 1/2N, 127E
About 100 miles off
coast of Mindanao,
Philippine Islands
H = 20 21 45
Resolute
e 21 13 26

JANUARY 15
U. S. C. G. S.
11N, 86 1/2W
Near coast of Nicaragua
H = 21 40 26
Kirkland Lake
eP 21 47 39 d
Ottawa
iP 21 47 23
Resolute
eL 22 15 24
Schefferville
eP (21.6) c
Shawinigan Falls
eP 21 47 38

JANUARY 15
U. S. C. G. S.
Southern Catamarca
Province, Argentina
H = 22 54 05
Kirkland Lake
iP 23 06 07 c
Ottawa
iP 23 05 49
Shawinigan Falls
iP 23 05 57 d

JANUARY 16
Resolute
iP 19 35 28 c

JANUARY 16
Resolute
eP 22 30 52

DOMINION OBSERVATORIES

JANUARY 17

Resolute
iP 00 48 29 c

JANUARY 17

Halifax
iP₁ 22 22 45
iS₁ 22 22 50
d = 43 km

JANUARY 17

U. S. C. G. S.
33N, 137 1/2E
Off south coast of
Honshu, Japan
H = 22 26 10
Resolute
eP 22 37 07 c
i 22 37 08 d
Victoria
iP 22 37 35 c

JANUARY 18

U. S. C. G. S.
Near coast of Guerrero,
Mexico
H = 13 12 42
Resolute
eL 13 42 23

JANUARY 18

Halifax
iP₁ 16 39 47
iS₁ 16 39 53
d = 50 km

JANUARY 18

Ottawa
iP_n 18 54 31
iS_n 18 55 03
L 18 55 25
d = 350 km

Shawinigan Falls

iP_n 18 54 23.0
iS_n 18 54 46.5
i 18 55 21.5

JANUARY 19

U. S. C. G. S.
21 1/2S, 179W
Fiji Islands region
H = 05 16 37
Halifax
iP 05 34 21 c
i 05 44 21
Horseshoe Bay
iP 05 28 16 c?
Ottawa
iP' 05 34 09 d
Resolute
eP' 05 33 57
Shawinigan Falls
eP' 05 34 13 d
Victoria
iP 05 28 13 d

JANUARY 20

Kirkland Lake
e(P) 07 45 02

JANUARY 20

U. S. C. G. S.
About 300 miles off south
coast of Honshu, Japan
H = 10 59 35
Resolute
eP 11 10 35

JANUARY 20

Resolute
eP 14 04 09 d
i 14 04 10 c

JANUARY 20

U. S. C. G. S.
36 1/2N, 71 1/2E
Hindu Kush
H = 18 12 47
Kirkland Lake
e 18 26 11
e 18 26 19
Ottawa
eP 18 25 51
Resolute
eP 18 23 40
eS 18 31 55
eSSS 18 40 10
Shawinigan Falls
eP 18 25 45

JANUARY 21

Alberni
eP 08 23 05.9
iS 08 23 30.8
Victoria
eP 08 22 49.3
iS 08 23 05.3
Local shock

JANUARY 21

U. S. C. G. S.
23S, 70 1/2W
Chile, Felt at
Antofagasta
H = 10 01 46
Kirkland Lake
eP 10 13 (14)

JANUARY 21

Kirkland Lake
iP₁ 22 19 (01)
Ottawa
iP_n 22 20 03.5
iP₁ 22 20 13.0
eS_n 22 20 42.0
iS₁ 22 21 03.0
e 22 21 07
d = 420 km

SEISMOLOGICAL BULLETIN - 1957

Seven Falls

e(P_n) 22 17 54?
e 22 19 05?
i 22 19 38?

Shawinigan Falls

iP_n 22 20 18
eS_n 22 21 12
i 22 21 17
i 22 21 23
i 22 21 36
S₁ 22 21 48

d = 590 km

Rockburst at Kirkland Lake

JANUARY 21

Resolute
eP 22 33 04

JANUARY 22

Resolute
iP 00 03 40

JANUARY 22

U. S. C. G. S.
4 1/2S, 28 1/2E
Belgian Congo
H = 11 18 23
Resolute
eL 12 12 56

JANUARY 22

U. S. C. G. S.
11S, 166 1/2E
Santa Cruz Islands
H = 12 31 54
Halifax
eL 13 31.6
Resolute
eSS 13 04 19
eL 13 20 29

JANUARY 23

U. S. C. G. S.
37N, 22 1/2E
Near west coast of
Greece
H = 17 26 51
Ottawa
eP 17 38 04 d
Resolute
eP 17 37 09
Shawinigan Falls
eP 17 37 47

JANUARY 24

U. S. C. G. S.
6S, 147E
Near east coast of
New Guinea
H = 01 11 11
Ottawa
iP' 01 30 07 c
pP' 01 30 38 c
Resolute
eP 01 25 00
ePP 01 29 22
ePS 01 38 39
eSS 01 43 25
Shawinigan Falls
ePP 01 30 36

JANUARY 24

U. S. C. G. S.
Marianas Islands
H = 02 04 40
Resolute
eP 02 16 44

JANUARY 24

U. S. C. G. S.
12 1/2S, 78W
Near coast of Peru
H = 07 16 29
Kirkland Lake
eP 07 26 46

Ottawa

eP 07 26 23 d
S 07 34 18
S_cS 07 36 05
L 07 40 07

Resolute

iP 07 29 19 c
eS 07 39 47
eSS 07 45 21
eL 07 53 28

Shawinigan Falls

iP 07 26 32 d

Victoria

e(P) 07 28 00
e(S) 07 37 24

JANUARY 24

U. S. C. G. S.
25 1/2S, 109 1/2W
Southern Gulf of
California
H = 14 59 37
Ottawa
eP 15 06 26 d
S_cS 15 17 10
L 15 17 40
Resolute
eL 15 26 29

JANUARY 24

U. S. C. G. S.
25 1/2N, 110W
Gulf of California
aftershock
H = 16 30 45
Ottawa
eP 16 37 33
Resolute
eL 16 57 38

JANUARY 24

U. S. C. G. S.
25 1/2N, 109 1/2W
Gulf of California
aftershock
H = 16 59 50

DOMINION OBSERVATORIES

Ottawa
 eP 17 06 34
 L 17 17 40
 Resolute
 eP 17 08 45
 eL 17 26 17

JANUARY 25
 Kirkland Lake
 eP 04 16 12
 Ottawa
 eP 04 16 21
 Shawinigan Falls
 iP 04 16 22 d

JANUARY 26
 U. S. C. G. S.
 42 1/2N, 42E
 Georgia, S. S. R.
 H = 16 30 48
 Resolute
 eP 16 40 54

JANUARY 24
 U. S. C. G. S.
 20S, 176 1/2W
 Tonga Islands
 H = 19 25 16
 Resolute
 eL 20 12 36

JANUARY 25
 U. S. C. G. S.
 49 1/2N, 156E
 Northern Kurile Islands
 H = 16 59 48
 Resolute
 eP 17 08 27
 eL 17 25 02

JANUARY 27
 Victoria
 iP 06 33 26
 eS 06 33 41.9
 Local shock

JANUARY 25
 U. S. C. G. S.
 51 1/2N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 03 36 47
 Alberni
 iP 03 44 26 c
 Halifax
 iP 03 47 51

JANUARY 25
 U. S. C. G. S.
 About 100 miles north
 east coast of Greenland
 H = 23 26 08
 Resolute
 eP 23 30 14
 eS 23 34 13

JANUARY 27
 Resolute
 iP 11 18 17 d

JANUARY 27
 Shawinigan Falls
 eP 13 48 29
 i 13 48 38
 i 13 50 28

Kirkland Lake
 eP 03 46 44 d?
 Ottawa
 eP 03 47 10 d
 L 04 02 50
 Resolute
 iP 03 44 17 d
 iS 03 50 10
 eL 03 52 26
 e(SS) 03 53 11
 eL 03 56 36

JANUARY 26
 U. S. C. G. S.
 48 1/2N, 122W
 Washington
 H = 01 16 06
 Alberni
 iP 01 16 39.1
 Resolute Bay
 eL 01 31 18
 Victoria

JANUARY 27
 U. S. C. G. S.
 10N, 126 1/2E
 Mindanao, Philippine
 Islands
 H = 14 03 22
 Resolute
 iP 14 16 34 d
 eS 14 27 15
 eL 14 51 15

Schefferville
 eP (03.6) d
 Seven Falls
 eP 03 44 38?
 Shawinigan Falls
 eP 03 47 14

Victoria
 iP 01 16 21.1
 iS 01 16 25.3
 Local to Alberni and
 Victoria

JANUARY 27
 Shawinigan Falls
 e(P) 16 52 25

Victoria
 iP 03 43 36 d
 e 03 46 11
 iS 03 49 00
 L 03 51.5

JANUARY 26
 Resolute
 eP 09 10 53

JANUARY 28
 U. S. C. G. S.
 27N, 130 1/2E
 Ryukyu Islands
 H = 05 23 25

SEISMOLOGICAL BULLETIN - 1957

Ottawa	JANUARY 29	JANUARY 30
iP 05 37 34 d	U. S. C. G. S.	Resolute
pP 05 38 28 d	43N, 43E	eP 13 37 12
Resolute	Georgia aftershock	e 13 57 06
iP 05 35 05 d	H = 15 17 30	
eL 06 02 13	Resolute	
	ePPP 15 31 32	JANUARY 30
JANUARY 28		U. S. C. G. S.
U. S. C. G. S.	JANUARY 29	20 1/2S, 174W
15 1/2S, 173W	U. S. C. G. S.	Tonga Islands
Samoa Islands region	36 N, 122 1/2W	H = 15 29 00
H = 08 16 19	Near coast of southern	Resolute
Resolute	California	eL 16 15 20
eP 08 30 14	H = 21 19 51	
e 08 40 49	Resolute	
e 09 00 59	iP 21 27 39 c	JANUARY 31
e 09 05 40		U. S. C. G. S.
Victoria		22S, 66W
eP 08 28 18	JANUARY 29	Southern Bolivia
	Resolute	H = 00 47 00
	iP 21 31 49 c	Halifax
JANUARY 28		i 00 57 50
U. S. C. G. S.		Kirkland Lake
49N, 156E	JANUARY 30	eP 00 58 09 c
Northern Kurile	U. S. C. G. S.	Ottawa
Islands	15S, 173W	iP 00 57 50 c
H = 23 18 51	Samoa Islands region	pP 00 58 13
Ottawa	H = 09 46 05	Schefferville
iP 23 30 51 c	Resolute	iP (00.6) c
Resolute	eL 10 35 43	Shawinigan Falls
eP 23 27 33		iP 00 57 56 c
Shawinigan Falls		pP 00 58 20
eP 23 30 52		
JANUARY 28	JANUARY 30	JANUARY 31
U. S. C. G. S.	U. S. C. G. S.	Resolute
12N, 86 1/2W	65N, 134W	iP 04 12 29 c
Near coast of	Yukon, Canada	
Nicaragua	H = 12 08 27	JANUARY 31
H = 23 59 46	Kirkland Lake	U. S. C. G. S.
Kirkland Lake	eP 12 15 43 d?	Kurile Islands
eP 24 06 55	e 12 25 19	H = 15 34 40
Ottawa	Ottawa	Resolute
eP 24 06 40	iP 12 15 37 d	iP 15 43 47 d?
Shawinigan Falls	i 12 27 32	
eP 24 06 55	L 12 30 00	
	Resolute	
	eP 12 12 07	
	iS 12 14 55	
	i 12 16 49	

DOMINION OBSERVATORIES

FEBRUARY 1

Resolute
eP 02 59 17

FEBRUARY 1

Alberni
iP 09 38 26.2
iS 09 38 36.0

Horseshoe Bay
iP 09 38 25.1
iS 09 38 33.6

Victoria
iP 09 38 31.0
iS 09 38 43.3

Local shock

FEBRUARY 1

Resolute
eP 22 05 27
Shawinigan Falls
eP 22 11 03

FEBRUARY 1

U. S. C. G. S.
48 1/2N, 155E
Kurile Islands
H = 22 32 53

Ottawa
iP 22 44 48 d
Resolute
iP 22 41 43 d
Shawinigan Falls
eP 22 44 50 d

FEBRUARY 2

U. S. C. G. S.
21 1/2S, 170E
Loyalty Islands region
H = 11 45 35
Ottawa
iP 12 04 32 d
Resolute
eL 12 46 46
Shawinigan Falls
eP' 12 04 36

FEBRUARY 2

Halifax
iP₁ 16 26 48.0
i 16 26 53.0
iS₁ 16 26 54.5
d = 55 km

FEBRUARY 2

Resolute
eP 19 34 30
i 19 34 33 d
e 19 35 08

FEBRUARY 3

Alberni
iP 10 32 25.9
iS 10 32 43.2
Local shock

FEBRUARY 3

U. S. C. G. S.
Kamchatka foreshock
H = 10 33 09
Resolute
eP 10 40 32

FEBRUARY 3

Resolute
e 16 32 02

FEBRUARY 3

U. S. C. G. S.
53 1/2N, 159E
Kamchatka foreshock
H = 17 01 47
Halifax
eP 17 13 33 c
eL 17 44 58
Kirkland Lake
eP 17 12 35
Ottawa
eP 17 13 04 c
Resolute
eP 17 09 48
i 17 09 49 c
eL 17 24 05

Schefferville

eP (17) c
Shawinigan Falls
eP 17 13 05 c
Victoria
eP 17 10 18

FEBRUARY 3

Kirkland Lake
eP 17 23 15

FEBRUARY 3

U. S. C. G. S.
53 1/2N, 159E
Kamchatka
H = 17 24 50
Halifax

iP 17 36 36 c
Horseshoe Bay
eP 17 33 20.3
Kirkland Lake
eP 17 35 42
e 18 04 15

Ottawa
eP 17 36 07 d
Resolute
iP 17 32 50 d
e 17 37 32
eS 17 39 09
eL 17 41 43

Saskatoon
eP 17 34 05
eS 17 41 37
eL 17 54.0

Schefferville

iP (17) c
Seven Falls
eP 17 33 07
S 17 42 21
Shawinigan Falls
eP 17 36 07 d
Victoria
eP 17 33 19 d?
PP 17 35 16
iS 17 40 12
SS 17 44 03
L 17 47.5

SEISMOLOGICAL BULLETIN - 1957

FEBRUARY 3
 U. S. C. G. S.
 53 1/2N, 159E
 Kamchatka aftershock
 H = 21 11 53
 Ottawa
 eP 21 23 11
 Resolute
 iP 21 19 54 c
 Schefferville
 eP (21) d
 Shawinigan Falls
 eP 21 23 11
 Victoria
 eP 21 20 25
 e 21 26 07

FEBRUARY 3
 U. S. C. G. S.
 53 1/2N, 159E
 Kamchatka aftershock
 H = 21 17 35
 Halifax
 iP 21 29 21 c
 Ottawa
 eP 21 28 53
 Resolute
 iP 21 25 37 c
 Schefferville
 iP (21) c
 Shawinigan Falls
 eP 21 28 57 d

FEBRUARY 3
 U. S. C. G. S.
 53 1/2N, 159E
 Kamchatka
 H = 22 58 24
 Halifax
 iP 23 10 10
 Kirkland Lake
 eP 23 09 18
 Ottawa
 eP 23 09 43
 Resolute
 eP 23 06 23 d
 i 23 06 24 c
 e 23 19 55
 e 23 22 53

Shawinigan Falls
 eP 23 09 42 c
 Victoria
 eP 23 06 56
 PP 23 08 48
 eS 23 13 54

FEBRUARY 4
 Resolute
 eP 04 36 50
 e 04 38 09

FEBRUARY 4
 U. S. C. G. S.
 10N, 84W
 Costa Rica
 H = 09 01 52
 Kirkland Lake
 eP 09 09 13
 Ottawa
 eP 09 08 55 d
 Resolute
 iP 09 12 29 d
 Schefferville
 eP (09) c
 Shawinigan Falls
 eP 09 09 09
 Victoria
 eP 10 37 03

FEBRUARY 4
 U. S. C. G. S.
 51N, 160 1/2E
 Off south coast of
 Kamchatka
 H = 10 28 27
 Kirkland Lake
 eP 10 39 31
 Ottawa
 eP 10 39 54 c
 PP 10 42 36
 Resolute
 iP 10 36 46 d?
 Schefferville
 eP (10) c
 Shawinigan Falls
 eP 10 39 55 c

FEBRUARY 4
 U. S. C. G. S.
 18S, 176 1/2W
 Fiji Islands region
 H = 04 02 05
 Victoria
 eP 04 13 54
 pP 04 14 56

FEBRUARY 4
 U. S. C. G. S.
 25 1/2N, 45 1/2W
 Mid-Atlantic Ocean
 H = 04 51 20

Halifax
 iP 04 56 41 c
 iS 05 01 07

Kirkland Lake
 iP 04 58 21 d
 Ottawa
 eP 04 57 46 c

i 04 57 52
 e 04 58 42
 S 05 03 04
 L 05 04 40

Resolute
 iP 05 00 56 d
 eS 05 19 17
 eL 05 22 39

Seven Falls
 eP 04 54 23?
 S 04 58 58?
 L 05 00 39?

Shawinigan Falls
 eP 04 57 35 c
 i 04 57 40

Victoria
 iP 05 01 54.0 d
 iS 05 10 40
 eL 05 21.7

FEBRUARY 4
 Kirkland Lake
 eP 08 03 08
 Shawinigan Falls
 iP 08 02 53 c

DOMINION OBSERVATORIES

FEBRUARY 5
 U.S.C.G.S.
 36 1/2N, 29E
 Near south coast of
 Turkey
 Shawinigan Falls
 eP 17 32 16 c

FEBRUARY 5
 Alberni
 iP 19 23 27.9
 iS 19 23 43.8
 Horseshoe Bay
 iP 19 23 14.7
 iS 19 23 29.7
 Victoria
 iP 19 23 03.6
 iS 19 23 10.8
 Local shock

FEBRUARY 6
 U.S.C.G.S.
 Galapagos Islands
 foreshock
 H = 12 41 16
 Ottawa
 eP 12 49 35 d

FEBRUARY 6
 U.S.C.G.S.
 2N, 91W
 Galapagos Islands
 region
 H = 13 06 13
 Halifax
 eL 13 22 14
 Kirkland Lake
 e 13 14 49
 e 13 16 05
 e 13 17 14
 Ottawa
 eP 13 14 33
 e 13 17 02
 S 13 21 20
 L 13 25 50

Resolute
 eP 13 17 37
 eS 13 26 26
 eL 13 35 11
 Shawinigan Falls
 eP 13 14 45
 Victoria
 e 13 17 02
 eL 13 34.2

FEBRUARY 6
 U.S.C.G.S.
 Galapagos Islands
 aftershock
 H = 13 07 30
 Ottawa
 eP 13 15 48
 Resolute
 eL 13 51 32

FEBRUARY 6
 U.S.C.G.S.
 50N, 105 1/2E
 Lake Baikal region,
 U.S.S.R.
 H = 20 34 55
 Halifax
 eP 20 47 34
 eL 21 11.5
 Kirkland Lake
 eP 20 47 17
 Resolute
 iP 20 44 27 c
 eS 20 52 08
 eSS 20 55 51
 eL 20 57 49
 Schefferville
 iP (20) c
 Shawinigan Falls
 eP 20 47 27
 Victoria
 iP 20 46 36.1
 eL 21 08.7

FEBRUARY 6
 U.S.C.G.S.
 Cordoba Province,
 Argentina
 H = 09 02 23
 Halifax
 iP 09 14 24 c
 Kirkland Lake
 eP 09 13 46 c
 e 09 13 57 c
 Schefferville
 eP (09 15.3) d
 Shawinigan Falls
 eP 09 14 35 c
 i 09 14 47 c

FEBRUARY 6
 U.S.C.G.S.
 52 1/2N, 175W
 Andreanof Islands,
 Aleutian Islands
 H = 16 17 09
 Halifax
 eP 16 27 51
 eL 16 51 15
 Kirkland Lake
 eP 16 26 47
 Ottawa
 iP 16 27 15 d
 Resolute
 eP 16 26 00
 eL 16 38 43
 Schefferville
 eP (16 26.6) d
 Shawinigan Falls
 eP 16 27 20 d

FEBRUARY 7
 U.S.C.G.S.
 50N, 130W
 Off coast of Vancouver
 Island, British
 Columbia
 H = 18 14 19
 Halifax
 eL 18 37.5

SEISMOLOGICAL BULLETIN - 1957

Horseshoe Bay	FEBRUARY 9	Shawinigan Falls
eP 18 15 26	Resolute	eP' 13 48 06 c
Resolute	iP 07 04 52 d	PPP 13 51 29
eP 18 20 23		
e(SS) 18 29 48	FEBRUARY 9	FEBRUARY 9
eL 18 31 25	U. S. C. G. S.	Kirkland Lake
Saskatoon	7 1/2N, 83W	eP 14 51 22
e 18 22 36	Off south coast of	Schefferville
Victoria	Panama	eP 14 49 20
iP 18 15 22.1	H = 07 23 18	i 14 52 29 d
e 18 15 27	Kirkland Lake	e 14 53 27
S 18 16 52	eP 07 31 06	
Local to stations in	Ottawa	
the Western Division	iP 07 30 47 d	FEBRUARY 9
	Resolute	U. S. C. G. S.
	eP 07 34 21	41 1/2N, 126W
FEBRUARY 8	eL 07 59 32	Northern California
Resolute	Shawinigan Falls	H = 16 38 10
iP 16 40 10 c	eP 07 31 01 d	Halifax
		iP 16 46 26 d
		iS 16 53 04
FEBRUARY 8		iSS 16 56 25
Victoria	FEBRUARY 9	eL 16 59.5
iP 17 16 12.7	U. S. C. G. S.	Horseshoe Bay
iS 17 16 22.7	11 1/2N, 138 1/2E	P 16 40 13
Local shock	Caroline Islands	eS 16 41 39
	H = 08 07 15	e 16 41 45
	Resolute	Kirkland Lake
FEBRUARY 9	iP 08 20 07 c	eP 16 44 45 c
U. S. C. G. S.	Schefferville	eS 16 50 11
1 1/2S, 137 1/2E	eP 08 33 11 d	Ottawa
Near north coast of	e 08 33 19	eP 16 45 14
New Guinea		PP 16 46 44
H = 01 53 05		S 16 51 00
Resolute	FEBRUARY 9	Resolute
eP 02 06 55	U. S. C. G. S.	iP 16 45 13 c
	34S, 180	eS 16 50 45
FEBRUARY 9	Off coast of North Island,	eL 16 52 25
U. S. C. G. S.	New Zealand	eS _C S 16 55 11
10 1/2N, 126 1/2E	H = 13 29 18	eL 16 58 03
Near east coast of	Halifax	Saskatoon
Samar, Philippine	eP' 13 48 19	iP 16 42 12
Islands	Ottawa	iS 16 45 28
H = 05 59 04	iP' 13 48 03	Seven Falls
Resolute	PPP 13 51 26	eP 16 42 23?
iP 06 12 05 c	Resolute	PP 16 43 44?
	iP 13 47 56 c	S 16 48 25?
	e 13 58 04	S _C S 16 52 53?
	e 14 01 18	L 16 55 44?
	F 14 08	

DOMINION OBSERVATORIES

Shawinigan Falls
 iP 16 45 29 d
 PP 16 46 53
 Victoria
 iP 16 39 59.4
 i 16 41 17

FEBRUARY 9
 U.S.C.G.S.
 41N, 127W
 Northern California
 aftershock
 H = 17 38 22
 Ottawa
 eP 17 45 34 d
 Schefferville
 iP 17 46 52
 ePP 17 48 24
 Shawinigan Falls
 iP 17 45 48 d

FEBRUARY 9
 U.S.C.G.S.
 19S, 174W
 Tonga Islands
 H = 17 56 00
 Resolute
 i 18 25 58
 eL 18 47 14

FEBRUARY 9
 Ottawa
 iP_n 20 00 31
 S_n 20 00 48
 L 20 00 56
 d = 150 km

FEBRUARY 9
 Ottawa
 iP_n 20 31 28
 S_n 20 31 47
 L 20 31 53
 d = 150 km

FEBRUARY 10
 U.S.C.G.S.
 35 1/2N, 35W
 Azores Islands region
 H = 05 47 59
 Halifax
 iP 05 53 15 c
 eS 05 57 34
 eL 05 59.3
 Kirkland Lake
 eP 05 55 05
 Ottawa
 eP 05 54 38
 L 06 03 20
 Resolute
 eP 05 56 41
 i 05 56 43 d
 eS 06 03 45
 eL 06 11 08
 Seven Falls
 eP 05 51 42?
 L 05 58 43?
 Shawinigan Falls
 eP 05 54 14 c

FEBRUARY 10
 Resolute
 eP 06 09 49
 e 07 03 11

FEBRUARY 10
 U.S.C.G.S.
 10N, 126E
 Mindanao foreshock
 H = 22 32 15
 Halifax
 eSS 23 10 00
 e 23 28 35
 Kirkland Lake
 eP 22 51 10
 Ottawa
 eP' 22 51 12
 i 22 52 39
 PP 22 52 54

Resolute
 iP 22 45 25 c
 ePP 22 48 24
 eS 22 55 47
 eSS 23 02 29
 eL 23 14 01
 Shawinigan Falls
 eP' 22 51 11 c

FEBRUARY 10
 Kirkland Lake
 eP 23 01 31

FEBRUARY 10
 U.S.C.G.S.
 10 1/2N, 126 1/2E
 Mindanao Philippine
 Islands
 H = 22 50 52
 Kirkland Lake
 eP' 23 09 41
 Ottawa
 eP' 23 09 50
 Resolute
 iP 23 04 03 d
 Shawinigan Falls
 eP' 23 09 48 c

FEBRUARY 10
 Kirkland Lake
 eP 23 20 05

FEBRUARY 10
 Resolute
 eP 23 42 23

FEBRUARY 11
 Resolute
 eP 00 31 38

FEBRUARY 11
 Resolute
 eP 00 50 59

SEISMOLOGICAL BULLETIN - 1957

<p>FEBRUARY 11 Resolute eP 01 03 34</p>	<p>Ottawa eP' 04 03 41 d Resolute iP 03 57 44 d? Shawinigan Falls eP' 04 03 40 c</p>	<p>FEBRUARY 11 U.S.C.G.S. 10N, 126 1/2E Mindanao aftershock H = 11 57 16 Resolute eP 12 10 26</p>
<p>FEBRUARY 11 U.S.C.G.S. 10N, 126E Mindanao aftershock H = 01 14 44 Halifax eG 02 05 40 eL 02 27.3 Ottawa eP' 01 33 41 Resolute eP 01 27 52 c i 01 27 57 d eS 01 38 22 ePPS 01 40 28 eSS 01 44 06 eL 02 02 19 Shawinigan Falls eP' 01 33 38 c</p>	<p>FEBRUARY 11 Resolute eP 04 08 13</p> <p>FEBRUARY 11 U.S.C.G.S. 10N, 126E Mindanao aftershock H = 04 04 08 Resolute eP 04 17 17</p> <p>FEBRUARY 11 U.S.C.G.S. Mindanao H = 04 47 52 Resolute eP 05 01 02</p>	<p>FEBRUARY 11 U.S.C.G.S. Mindanao aftershock H = 12 02 09 Resolute eP 12 33 22</p> <p>FEBRUARY 11 U.S.C.G.S. 10N, 126E Mindanao aftershock H = 14 25 38 Ottawa eP' 14 44 39 Resolute iP 14 38 51 c eS 14 49 46 eL 15 21 03 Shawinigan Falls eP' 14 44 36</p>
<p>FEBRUARY 11 Resolute eP 03 24 51</p>	<p>FEBRUARY 11 U.S.C.G.S. 10N, 126E Mindanao aftershock H = 06 47 37 Resolute eP 07 00 47</p>	<p>FEBRUARY 11 Alberni iP 17 05 40.7 iS 17 06 12.9 Horseshoe Bay iP 17 05 31.2 iS 17 05 57.2 Victoria iP 17 05 20.7 iS 17 05 44.6</p>
<p>FEBRUARY 11 U.S.C.G.S. 10N, 126 1/2E Mindanao aftershock H = 03 36 11 Resolute eP 03 39 21</p>	<p>FEBRUARY 11 Resolute eP 07 41 41</p>	
<p>FEBRUARY 11 U.S.C.G.S. 10N, 126E Mindanao aftershock H = 03 44 33</p>	<p>FEBRUARY 11 Resolute eP 11 18 40</p>	<p>FEBRUARY 11 Resolute eP 18 56 07</p>

DOMINION OBSERVATORIES

FEBRUARY 11
 U.S.C.G.S.
 10N, 126 1/2W
 Mindanao aftershock
 H = 18 56 50
 Resolute
 eP 19 09 59

FEBRUARY 11
 Resolute
 eP 19 53 45

FEBRUARY 11
 Resolute
 eP 20 35 46

FEBRUARY 12
 U.S.C.G.S.
 48 1/2N, 155E
 Northern Kurile
 Islands
 H = 08 52 48
 Kirkland Lake
 eP 09 04 20 d?
 Ottawa
 eP 09 04 42 d
 Resolute
 iP 09 01 37 c
 eL 09 20 16
 Shawinigan Falls
 iP 09 04 43 d

FEBRUARY 12
 Victoria
 iP 12 49 49.1

FEBRUARY 12
 Alberni
 iP 13 41 38.3
 iS 13 41 55.0
 Local shock

FEBRUARY 12
 Resolute
 iP 16 08 55

FEBRUARY 12
 U.S.C.G.S.
 Mindanao aftershock
 H = 17 14 10
 Resolute
 iP 17 27 26 c

FEBRUARY 12
 Resolute
 eP 18 09 06

FEBRUARY 12
 Resolute
 iP 18 23 57 d

FEBRUARY 12
 U.S.C.G.S.
 Mindanao aftershock
 H = 21 06 56
 Resolute
 eP 21 20 07

FEBRUARY 13
 U.S.C.G.S.
 10N, 126 1/2E
 Mindanao aftershock
 H = 00 29 48

Ottawa
 eP' 00 48 49
 Resolute
 iP 00 43 00 c
 eL 01 25 28
 Shawinigan Falls
 eP' 00 48 46

FEBRUARY 13
 Horseshoe Bay
 iP 12 48 53

FEBRUARY 13
 U.S.C.G.S.
 18S, 169E
 New Hebrides Islands
 H = 12 37 '4
 Ottawa
 iP' 12 55 40 c
 Shawinigan Falls
 iP' 12 55 44 c

FEBRUARY 13
 U.S.C.G.S.
 48 1/2N, 157 1/2E
 Northern Kurile Islands
 H = 14 41 34
 Banff
 iP (14) d
 Kirkland Lake
 eP 14 52 57
 Ottawa
 eP 14 53 23
 Shawinigan Falls
 eP 14 53 20 d

FEBRUARY 13
 Shawinigan Falls
 eP 16 43 56

FEBRUARY 13
 Ottawa
 iP 17 13 33

FEBRUARY 13
 Kirkland Lake
 e(P) 17 21 18

FEBRUARY 14
 U.S.C.G.S.
 Mindanao aftershock
 H = 10 16 13
 Resolute
 eP 10 29 22

SEISMOLOGICAL BULLETIN - 1957

<p>FEBRUARY 14 Resolute eP 13 19 22</p>	<p>FEBRUARY 16 Ottawa iP_n 19 46 39 S_n 19 46 57 L 19 47 07 d = 160 km</p>	<p>Victoria iP 15 54 11.8 L 16 05.9</p>
<p>FEBRUARY 14 U.S.C.G.S. 20N, 120E Near south coast of Formosa H = 23 01 19 Resolute iP 23 13 38 c</p>	<p>FEBRUARY 17 U.S.C.G.S. 13N, 126E Near east coast of Samar, Philippine Islands H = 09 51 10 Resolute eP 10 04 08</p>	<p>FEBRUARY 17 U.S.C.G.S. 4 1/2S, 125 1/2E Banda Sea H = 16 04 02 Ottawa eP' 16 23 10</p>
<p>FEBRUARY 15 U.S.C.G.S. 14S, 71W Southeastern Peru H = 07 33 10 Horseshoe Bay eP 07 45 01 Ottawa iP 07 43 02 d</p>	<p>FEBRUARY 17 U.S.C.G.S. 16N, 96 1/2W Oaxaca, Mexico H = 15 46 45 Horseshoe Bay iP 15 54 23 eS 16 00 29 L 16 08 34 Kirkland Lake eP 15 53 34 c e 15 56 08 Ottawa iP 15 53 29 c i 15 53 37 PP 15 54 41 P_cP 15 56 07 S 15 58 56 Resolute iP 15 56 40 c eS 16 05 06 eL 16 14 09 Seven Falls eP 15 50 33? S 15 56 23? L 15 59 14? Shawinigan Falls iP 15 53 48 c i 15 53 57 pP 15 55 13 S_cS 16 03 38</p>	<p>FEBRUARY 18 Horseshoe Bay i 07 33 17 Resolute eP 07 32 33 Victoria e 07 32 31 i 07 33 19.3</p>
<p>FEBRUARY 15 Resolute eP 18 02 57</p>	<p>FEBRUARY 18 U.S.C.G.S. 25 1/2N, 45 1/2W Mid-Atlantic Ocean H = 14 49 30 Banff iP 14 59 27.6 Halifax i 14 54 50 c eS 15 59 20 eSS 16 00 11 Horseshoe Bay e(P) 15 00 00 Kirkland Lake eP 14 56 28 c? Ottawa eP 14 55 54 d S 15 00 50 L 15 03 20 Resolute iP 14 59 03 d e 15 20 33 Seven Falls e(P) 14 52 10?</p>	<p>FEBRUARY 18 U.S.C.G.S. 25 1/2N, 45 1/2W Mid-Atlantic Ocean H = 14 49 30 Banff iP 14 59 27.6 Halifax i 14 54 50 c eS 15 59 20 eSS 16 00 11 Horseshoe Bay e(P) 15 00 00 Kirkland Lake eP 14 56 28 c? Ottawa eP 14 55 54 d S 15 00 50 L 15 03 20 Resolute iP 14 59 03 d e 15 20 33 Seven Falls e(P) 14 52 10?</p>
<p>FEBRUARY 15 U.S.C.G.S. 13 1/2N, 141 1/2E Mariana Islands region H = 18 49 43 Resolute eP 19 02 23</p>	<p>FEBRUARY 16 U.S.C.G.S. 5 1/2S, 110E Java Sea H = 14 12 30 Ottawa eP' 14 30 53 Shawinigan Falls eP' 14 30 59</p>	<p>FEBRUARY 18 U.S.C.G.S. 25 1/2N, 45 1/2W Mid-Atlantic Ocean H = 14 49 30 Banff iP 14 59 27.6 Halifax i 14 54 50 c eS 15 59 20 eSS 16 00 11 Horseshoe Bay e(P) 15 00 00 Kirkland Lake eP 14 56 28 c? Ottawa eP 14 55 54 d S 15 00 50 L 15 03 20 Resolute iP 14 59 03 d e 15 20 33 Seven Falls e(P) 14 52 10?</p>

DOMINION OBSERVATORIES

Shawinigan Falls
eP 14 55 45
Victoria
iP 15 00 03.3

FEBRUARY 18
Resolute
eP 16 22 10
e(P) 16 25 44

FEBRUARY 18
Resolute
eP 16 54 33

FEBRUARY 18
U.S.C.G.S.
11 1/2S, 78W
Near coast of Peru
H = 23 49 52
Kirkland Lake
eP 23 59 50
Ottawa
eP 23 59 28 c
e 23 59 41
P_CP 24 00 24
Resolute
iP 24 02 27 c
Seven Falls
e(P) 23 56 11
Shawinigan Falls
eP 23 59 54

FEBRUARY 19
Ottawa
iP_n 05 20 46
eS_n 05 21 09
d = 215 km
Seven Falls
e 05 15 12?
e 05 15 39?
i 05 15 46?
Shawinigan Falls
eP₁ 05 19 51
eS₁ 05 20 03
d = 100 km

FEBRUARY 19
U.S.C.G.S.
36 1/2N, 22E
Near south coast of
Greece
H = 07 43 54
Banff
iP 07 56 34.3 d
Halifax
iP 07 54 21 d
Kirkland Lake
eP 07 55 16
Ottawa
eP 07 55 09 d
i 07 55 18
pP 07 55 32
Resolute
eP 07 54 16 c
i 07 54 18 c
eS 08 02 55
eL 08 09 08
Seven Falls
eP 07 51 12
Shawinigan Falls
eP 07 54 53
i 07 55 02
pP 07 55 14

FEBRUARY 19
U.S.C.G.S.
56N, 164E
Near east coast of
Kamchatka
H = 19 58 55
Kirkland Lake
eP 20 09 22 d
Ottawa
P 20 09 48 d
pP 20 10 07
Resolute
eP 20 06 27 c
i 20 06 27.5 d
eL 20 26 15
Shawinigan Falls
eP 20 09 49

FEBRUARY 19
Alberni
i 20 19 09.1
Horseshoe Bay
iP 20 18 11.5
Victoria
iP 20 18 01.3
e 20 19 06
Local shock

FEBRUARY 20
U.S.C.G.S.
36 1/2N, 9E
Northern Tunisia
H = 04 41 00
Halifax
eP 04 50 26
eL 05 07.6
Kirkland Lake
eP 04 51 32
Ottawa
eP 04 51 23
pP 04 51 45
Resolute
iP 04 51 06 c
eL 05 08 16
Schefferville
eP 04 48 22
Shawinigan Falls
eP 04 51 06

FEBRUARY 20
U.S.C.G.S.
16S, 72W
Near coast of Southern
Peru
H = 05 17 18
Halifax
iP 05 27 33
Kirkland Lake
eP 05 27 44
Ottawa
iP 05 27 26 c
Shawinigan Falls
iP 05 27 31 d

SEISMOLOGICAL BULLETIN - 1957

FEBRUARY 20

Ottawa
eP 08 13 36 c

FEBRUARY 20

U.S.C.G.S.
53 1/2N, 160E
Near east coast of
Kamchatka
H = 12 59 44
Kirkland Lake
eP 13 10 31
Ottawa
eP 13 10 55
Resolute
iP 13 07 42 c
Schefferville
iP 13 08 25 d
Shawinigan Falls
eP 13 10 57 c

FEBRUARY 20

U.S.C.G.S.
2N, 97E
Near coast of Sumatra
H = 21 58 23
Kirkland Lake
eP' 22 17 35 c?
i 22 20 55 c
Ottawa
eP' 22 17 41 d
PP 22 20 20
PKS 22 21 02
pPKS 22 21 35
sPKS 22 21 47
Resolute
iP 22 12 26 d?
ePP 22 16 39
Schefferville
iP 22 15 21 c
e 22 17 21
Shawinigan Falls
eP 22 17 36
PKS 22 20 57
i 22 21 23
pPKS 22 21 32
sPKS 22 21 50

FEBRUARY 21

Kirkland Lake
eP 01 21 02
Ottawa
eP 01 20 43

FEBRUARY 21

U.S.C.G.S.
53N, 171W
Fox Islands, Aleutian
Islands
H = 14 30 06
Alberni
iP 14 35 38
iS 14 41 16
i 14 42 08
Banff
iP 14 36 42.3 c
iP_CP 14 39 20 c
iS 14 42 54
Halifax
iP 14 40 36
eS 14 49 08
e(SSS) 14 55.8
Horseshoe Bay
iP 14 36 09
isP 14 36 31
iP_CP 14 39 09
i 14 39 38
iS 14 42 40
Kirkland Lake
iP 14 39 26
eS 14 46 52
Ottawa
iP 14 39 54 d
P_CP 14 40 12
PP 14 42 00
S 14 47 46
Resolute
iP 14 37 03 d
eSP 14 37 42
ePP 14 38 30
iP_CP 14 39 25
eS 14 42 34
eS_CP 14 43 01
eG 14 44 59
Saskatoon
iP 14 37 20
iS 14 43 05

Schefferville

eP 14 40 01.5 d
i 14 40 02 c
iP_CP 14 41 00
eP_CS 14 44 48
Seven Falls
eP 14 36 25
S 14 44 22
Shawinigan Falls
eP 14 39 58 d
pP 14 40 25
P_CP 14 40 47
PP 14 42 06
sPP 14 42 49
S_CP 14 44 35
Victoria
iP 14 36 11.6
isP 14 36 35.4
iP_CP 14 39 10.2
i 14 39 39.4
iS_CS 14 46 40
i 14 47 33

FEBRUARY 21

Alberni
iP 18 19 00.1
i(S) 18 19 05.2
Horseshoe Bay
iP 18 19 10.0

FEBRUARY 21

U.S.C.G.S.
31S, 178W
Kermadec Islands
H = 19 36 05
Ottawa
eP' 19 55 00
Resolute
iP' 19 54 52
Shawinigan Falls
eP' 19 55 07

FEBRUARY 21

Ottawa
eP 23 50 49
Shawinigan Falls
iP 23 50 39 d

DOMINION OBSERVATORIES

FEBRUARY 22
 U.S.C.G.S.
 49N, 156E
 Kurile Islands
 foreshock
 H = 17 12 49
 Ottawa
 eP 17 24 45
 Resolute
 eP 17 21 37
 Shawinigan Falls
 eP 17 24 41

FEBRUARY 23
 Schefferville
 eP 00 04 56 d
 e 00 05 21

FEBRUARY 23
 Resolute
 iP 00 30 52 c

FEBRUARY 23
 U.S.C.G.S.
 Kurile Islands
 foreshock
 H = 03 34 46
 Ottawa
 eP 03 46 48
 Resolute
 iP 03 43 28 c
 Schefferville
 eP 03 46 03
 Shawinigan Falls
 eP 03 46 35

FEBRUARY 23
 U.S.C.G.S.
 49N, 156E
 Northern Kurile
 Islands
 H = 04 57 46
 Ottawa
 eP 05 09 35

Resolute
 iP 05 06 25 c
 Schefferville
 eP 05 09 00
 Shawinigan Falls
 eP 05 09 32

FEBRUARY 23
 U.S.C.G.S.
 Kurile Islands
 aftershock
 H = 05 01 27

Ottawa
 eP 05 13 24
 Shawinigan Falls
 eP 05 13 20

FEBRUARY 23
 U.S.C.G.S.
 49N, 129W
 Off coast of Vancouver
 Island, British
 Columbia
 H = 13 16 51
 Alberni

iP 13 17 30.8
 i 13 17 31.6
 i 13 17 31.3
 iS 13 18 02.2
 i 13 18 03.3

Banff
 iP 13 18 59.9
 i 13 19 07

Halifax
 eL 13 40.0

Horseshoe Bay
 iP 13 17 46.2
 iS 13 18 29

Kirkland Lake
 eP 13 23 19
 eL 13 34.0

Ottawa
 eP 13 23 51
 L 13 36 16

Resolute
 eP 13 22 58
 eSS 13 32 17
 eL 13 33 04

Saskatoon
 iP 13 23 05
 e 13 24 54
 Shawinigan Falls
 eP 13 24 05
 Victoria
 iP 13 17 44.9 c
 e 13 18 34.7
 This shock was local
 to stations of the
 Western Division.

FEBRUARY 23
 U.S.C.G.S.
 12N, 141E
 Caroline Islands
 region
 H = 18 54 37

Resolute
 iP 19 07 28

FEBRUARY 23
 Resolute
 eP 20 02 04

FEBRUARY 23
 U.S.C.G.S.
 24N, 122E
 Formosa
 H = 20 26 12

Alberni
 iP 20 38 53
 Banff
 iP 20 39 10.2 c

Halifax
 eP 20 45 03
 iSSS 21 05 06

Horseshoe Bay
 iP 20 38 57 c
 i 20 39 04
 i 20 39 14
 eS 20 49 38

Kirkland Lake
 eP 20 40 25
 e 20 43 08
 ePP 20 44 51
 ePKKP 20 56 20
 e(S) 20 52 15

SEISMOLOGICAL BULLETIN - 1957

Ottawa
 eP 20 40 43
 e 20 43 45
 e 20 44 11
 PP 20 45 08
 S 20 52 38
 PS 20 54 26
 PKKP 20 56 00
 SS 21 00 18
 SSS 21 04 38
 G 21 09 50

Resolute
 iP 20 38 12 c
 iS 20 48 09
 eSS 20 52 44
 e 21 06 24
 eL 21 12 29

Saskatoon
 iP 20 39 32
 iS 20 50 32
 eL 21 12.0

Schefferville
 eP 20 40 06

Seven Falls
 e(PP) 20 41 12?
 S 20 48 53?
 PS 20 51 07?
 e 20 56 13?
 SS 20 58 23?

Shawinigan Falls
 eP 20 40 40
 e 20 43 43
 e 20 44 50
 PP 20 45 02
 e 20 47 24
 PPP 20 47 53
 e 20 53 32
 PS 20 54 22
 PKKP 20 56 07

Victoria
 iP 20 38 59.5 c
 i 20 39 07
 iS 20 49 39
 L 21 03.3

FEBRUARY 23
 Ottawa
 iP_n 22 17 26
 eS_n 22 17 50
 L 22 18 01
 d = 225 km
 Shawinigan Falls
 e 22 18 15

FEBRUARY 24
 Kirkland Lake
 e 19 51 31
 Ottawa
 e(P) 19 50 33
 i 19 52 38
 Shawinigan Falls
 e(P) 19 51 09

FEBRUARY 25
 Schefferville
 e(P) 00 08 21
 i 00 09 43
 Possibly local shock

FEBRUARY 25
 U.S.C.G.S.
 6S, 130E
 Banda Sea
 H = 13 21 17
 Kirkland Lake
 ePKS 13 43 41
 Ottawa
 iP' 13 40 39
 PKS 13 43 04
 Schefferville
 ePP 13 42 35
 Shawinigan Falls
 eP' 13 40 40
 PKS 13 43 56

FEBRUARY 26
 Banff
 eP 15 14 23
 Victoria
 eP 15 14 11 d?

FEBRUARY 27
 Resolute
 eP 10 04 13

FEBRUARY 27
 Alberni
 iP 12 26 49.0
 iS 12 27 16.4
 Local shock

FEBRUARY 27
 U.S.C.G.S.
 24N, 121 1/2E
 Formosa aftershock
 H = 15 01 22
 Resolute
 eP 15 13 25

FEBRUARY 28
 U.S.C.G.S.
 51 1/2N, 180
 Andreanof Islands,
 Aleutian Islands
 H = 11 01 45
 Ottawa
 eP 11 12 49
 Schefferville
 iP 11 10 59 d
 Shawinigan Falls
 eP 11 12 22

FEBRUARY 28
 Victoria
 iP 15 54 34.9 c

FEBRUARY 28
 U.S.C.G.S.
 Western Indian Ocean
 H = 23 31 25
 Kirkland Lake
 eP' 23 51 05

DOMINION OBSERVATORIES

MARCH 1

U.S.C.G.S.
Near coast of Oaxaca,
Mexico
H = 02 15 12
Kirkland Lake
eP 02 28 08
Ottawa
iP 02 22 01
Resolute
eP 02 25 10
Schefferville
eP 02 23 29
Shawinigan Falls
iP 02 22 11 c

Ottawa
eP 00 33 22
S 00 38 03
L 00 41 20
Resolute
e(P) 00 37 19 d
iP 00 37 19.5 c
e 00 41 46
eS 00 45 22
eS_cS 00 47 12
eSS 00 49 52
e 00 54 00
e(PKKP) 00 56 48
eL 01 03 51

Horseshoe Bay
eP 08 23 36
eS 08 45 23
Ottawa
eP' 08 29 26 d
Resolute
iP 08 24 21 d
Schefferville
eP' 08 29 27
Shawinigan Falls
eP' 08 29 26
Victoria
eP 08 23 34
iS 08 34 35

Saskatoon
eP 00 35 16
iS 00 41 27
iSS 00 44 46
eL 00 49.2

MARCH 2

Alberni
iP 09 33 23.4
iS 09 33 39.6
Victoria
iP 09 33 06.3
i 09 33 08.9
i 09 33 10.9

Schefferville
eP 00 34 48
Seven Falls
eP 00 33 49 ?
Shawinigan Falls
iP 00 33 31 c
S 00 39 36
Victoria
iP 00 36 08
e(S) 00 43 08
eL 00 50.6

MARCH 2

Shawinigan Falls
eP 21 45 17

MARCH 1

Resolute
eP 07 23 26

MARCH 1

Ottawa
P_n 19 04 04
S_n 19 04 21
L 19 04 30
d = 150 km

MARCH 1

Victoria
iP 23 31 52.3

MARCH 2

Schefferville
eP 06 59 04 d

MARCH 2

U.S.C.G.S.
8 1/2N, 103W
Off coast of Mexico
H = 03 18 23

MARCH 2

U.S.C.G.S.
18 1/2N, 78W
Jamaica
H = 00 27 33
Halifax
eP 00 33 44
Horseshoe Bay
iP 00 36 08
eS 00 43 13
Kirkland Lake
e(P) 00 33 42
iP 00 33 47
eS 00 38 38
eL 00 43 08

MARCH 2

U.S.C.G.S.
Southern Iran
H = 07 12 10
Resolute
eP 07 24 02

Horseshoe Bay
eP 03 26 41
Kirkland Lake
eP 03 26 36 c
eS 03 33 14
Ottawa
iP 03 26 35 c
S 03 33 12

MARCH 2

U.S.C.G.S.
6S, 151E
Near south coast of
New Britain
H = 08 10 24

Resolute
iP 03 29 17 c?
eL 03 46 04
Saskatoon
L 03 40.0

SEISMOLOGICAL BULLETIN - 1957

Schefferville

eP 03 27 56

ePP 03 29 30

Seven Falls

S 03 33 57

L 03 37 45

Victoria

eP 03 26 33

MARCH 3

Ottawa

iP_n 19 54 29

i 19 54 31

S_n 19 54 46

L 19 54 54

d = 150 km

MARCH 3

U.S.C.G.S.

9 1/2S, 154E

Off east coast of New

Guinea

H = 20 49 30

h = 100 km

Ottawa

iP' 21 08 25 d

Shawinigan Falls

eP' 21 08 27

MARCH 4

Horseshoe Bay

eP 03 41 54

MARCH 4

U.S.C.G.S.

South-central Alaska

H = 05 47 30

Resolute

eP 05 52 20

eL 05 59 01

MARCH 4

Resolute

e 10 27 49

MARCH 4

Horseshoe Bay

iP 18 50 11.6

iS 18 50 34.6

MARCH 5

U.S.C.G.S.

33N, 34 1/2W

North Atlantic Ocean

H = 12 24 35

Mag. = 6 1/2 - 6 3/4
(Pas.)

Banff

iP 12 34 20 d

Halifax

iP 12 29 31 c

e 12 33 35

eL 12 35 49

Kirkland Lake

eP 12 31 19 d?

eS 12 36 46

Ottawa

eP 12 30 50

PPP 12 32 06

S 12 35 50

L 12 38 15

Resolute

eP 12 33 27 d

iP 12 33 27.5 c

e 12 34 00

iS 12 40 42

eL 12 52 42

Saskatoon

eS 12 41 05

eL 12 49.5

Schefferville

eP 12 30 37

eP_cP 12 33 43

Seven Falls

eP 12 30 23 ?

S 12 35 14 ?

e 12 36 00 ?

SS 12 36 48 ?

L 12 37 55 ?

Shawinigan Falls

eP 12 30 36

PPP 12 31 49

Victoria

eL 12 54.7

MARCH 6

U.S.C.G.S.

Off coast of Chiapas,

Mexico

H = 03 39 45

Ottawa

eP 03 46 48 d

MARCH 6

U.S.C.G.S.

49N, 155E

Kurile Islands

H = 11 26 44

Banff

iP 11 36 11.8 c

i 11 37 16.5 d

Ottawa

iP 11 38 34 c

Resolute

iP 11 35 29 c

Schefferville

iP 11 38 05

i 11 38 19

Shawinigan Falls

iP 11 38 35 c

MARCH 6

Resolute

eP 16 40 30

MARCH 6

Banff

iP 22 40 35.5

iS 22 40 39.5

Local shock

MARCH 7

Alberni

iP 08 03 03.5

iS 08 03 27.9

Local shock

DOMINION OBSERVATORIES

MARCH 7

U.S.C.G.S.
19S, 178 1/2W
Fiji Islands
H = 10 47 25
h = about 550 km
Ottawa
iP' 11 05 00

Horseshoe Bay
eP 12 27 03
Kirkland Lake
eP 12 25 24
Ottawa
eP 12 25 19
S 12 34 22
SS 12 38 48
G 12 44 48

Resolute
iP 12 31 15
eS 12 39 24
eL 12 49 06

Saskatoon
e 12 36 27
e 12 43 13

Schefferville
iP 12 31 17 d

Seven Falls
eP 12 31 52 ?
PP 12 35 50

Shawinigan Falls
iP 12 32 01 d

Victoria
iP 12 34 02.8 d
iS 12 44 46
eL 12 55.3

MARCH 7

U.S.C.G.S.
Arctic Ocean north of
Spitsbergen
H = 21 55 42
Ottawa
eP 22 03 32
Resolute
iP 21 59 42 c

Resolute
eP 12 24 14
i(P) 12 24 17 d?
eL 12 32 35

Saskatoon
e 12 33 17

Schefferville
eP 12 24 12
i 12 25 36

Seven Falls
eP 12 24 56 ?
S 12 33 38 ?
SS 12 38 10 ?
L 12 40 35 ?

Shawinigan Falls
eP 12 25 03

Victoria
eP 12 27 06

MARCH 8

U.S.C.G.S.
23S, 179E
South of Fiji Islands
H = 16 35 11
h = about 600 km
Ottawa
iP' 16 52 54 c
Shawinigan Falls
eP' 16 52 58 c

MARCH 7

Alberni
iP 23 31 15.1
Horseshoe Bay
iP 23 31 14.0
iS 23 31 22.1
Victoria
iP 23 31 20.3
iS 23 31 33.6
Local shock

MARCH 8

U.S.C.G.S.
39 1/2N, 23E
Eastern Greece
H = 12 21 08
Mag. = 6 1/4 (Pas.)

Banff
iP 12 33 40.8 d

Halifax
iP 12 31 30
eS 12 37 21

Horseshoe Bay
eP 12 33 59
eS 12 44 55

Kirkland Lake
eP 12 32 22 d
eS 12 41 25

Ottawa
iP 12 32 18
S 12 41 22
PS 12 42 05

MARCH 8

U.S.C.G.S.
Eastern Greece
aftershock
H = 20 37 54

Ottawa
eP 20 49 01

Resolute
eP 20 47 59

Schefferville
eP 20 47 52

Shawinigan Falls
eP 20 48 46

MARCH 8

Ottawa
iP 10 59 04 d
Shawinigan Falls
iP 10 59 23 d

MARCH 8

U.S.C.G.S.
39 1/2N, 23E
Eastern Greece
foreshock
H = 12 14 12
Banff
eP 12 26 41
Halifax
eP 12 24 33

SEISMOLOGICAL BULLETIN - 1957

MARCH 8

U.S.C.G.S.
39 1/2N, 23E
Eastern Greece
aftershock
H = 23 35 08
Banff
iP 23 47 37.3 d
Halifax
eP 23 45 27
Kirkland Lake
eP 23 46 20 d
Ottawa
iP 23 46 15 d
Resolute
iP 23 45 12 d
eL 24 06 47
Schefferville
eP 23 45 05
Seven Falls
eP 23 45 49 ?
Shawinigan Falls
iP 23 45 59 d

Banff
iP 14 11 51.7 d
e 14 18 28
Horseshoe Bay
eP 14 11 33
e 14 17 31
Kirkland Lake
eP 14 14 31
Ottawa
eP 14 14 57
Resolute
iP 14 11 31 c
eS 14 15 07
e 14 17 58
e 14 29 28
Saskatoon
eL 14 19.5
Schefferville
eP 14 14 22 d
Victoria
eP 14 11 45
(L) 14 18 03

Hamilton
eP 14 32 34
PcP 14 33 23
S 14 40 56
Horseshoe Bay
eP 14 29 03.0 d?
i 14 29 06.8
i 14 29 23
Kirkland Lake
eP 14 32 17 c
Ottawa
iP 14 32 41
PcP 14 33 28
PPP 14 36 48
S 14 41 18
PS 14 41 48
Resolute
eP 14 29 59
Saskatoon
eP 14 30 13
iS 14 36 45
i 14 38 09

Schefferville
eP 14 32 21 c
Seven Falls
eP 14 32 52 ?
S 14 41 29 ?
Victoria
eP 14 29 05.4
i 14 29 09.5
i 14 29 20.9

MARCH 9

Kirkland Lake
e(P) 00 14 46
Ottawa
iP 00 14 30 d
Schefferville
eP 00 15 55.5 c
i 00 15 56 d
Shawinigan Falls
iP 00 14 46 d

MARCH 9

Ottawa
iP 14 28 38
e 14 29 27
Seven Falls
eP 14 29 43 ?

MARCH 9

U.S.C.G.S.
51N, 175W
Andreanof Islands,
Aleutian Islands
H = 14 22 27
Mag. = 8 - 8 1/2 (Pas.)
8 (Berk)

MARCH 9

Seven Falls
P 14 43 14
i 14 43 23

MARCH 9

Resolute
eP 03 05 55
e 03 12 28

Alberni
eP 14 29 02
Banff
eP 14 29 35.9 d?
i 14 29 47
Halifax
eP 14 33 23
iP 14 33 35

MARCH 9

Schefferville
iP 15 19 43 c

MARCH 9

U.S.C.G.S.
65N, 149W
Central Alaska
H = 14 06 52

MARCH 9

U.S.C.G.S.
50 1/2N, 177W
Andreanof Islands,
Aleutian Islands
H = 15 41 50

DOMINION OBSERVATORIES

Alberni
 iP 15 48 34 d
 Banff
 iP 15 49 06.1 d
 Horseshoe Bay
 iP 15 48 34 d
 iPcP 15 51 17 d
 Ottawa
 iP 15 52 14 d
 Schefferville
 iP 15 51 54 d
 Seven Falls
 eP 15 52 24
 Victoria
 iP 15 48 36.0

MARCH 9
 Ottawa
 iP 16 00 46

MARCH 9
 Schefferville
 iP 16 15 48 d

MARCH 9
 Ottawa
 eP 16 26 38 c
 Schefferville
 eP 16 26 17 c
 Seven Falls
 eP 16 26 47
 Shawinigan Falls
 iP 16 26 42 c

MARCH 9
 Victoria
 eP 16 28 47

MARCH 9
 Ottawa
 iP 16 29 12 d

MARCH 9
 Schefferville
 eP 16 31 18 c
 i 16 32 46

MARCH 9
 Ottawa
 iP 16 35 30 c

MARCH 9
 U.S.C.G.S.
 51N, 176W
 Andreanof Islands,
 Aleutian Islands
 H = 16 32 30
 Banff

iP 16 39 48.1
 Horseshoe Bay
 eP 16 39 16
 Ottawa
 iP 16 42 56 c
 Resolute
 iP 16 40 06 d
 Schefferville
 eP 16 42 34 d
 Seven Falls
 eP 16 43 08 ?
 Shawinigan Falls
 iP 16 43 00 c
 Victoria
 eP 16 39 17

MARCH 9
 Horseshoe Bay
 iP 16 51 56 c
 i 16 52 24
 i 16 54 55

MARCH 9
 U.S.C.G.S.
 51 1/2N, 174W
 Andreanof Islands,
 Aleutian Islands
 H = 16 45 26
 Banff
 iP 16 52 29 d

Horseshoe Bay
 iP 17 16 36 d
 Kirkland Lake
 eP 16 55 18
 Ottawa
 iP 16 55 45 c
 Resolute
 iP 16 53 01 c?
 Schefferville
 iP 16 55 16 d
 Seven Falls
 eP 16 55 56 ?

MARCH 9
 Ottawa
 iP 17 00 55 c

MARCH 9
 U.S.C.G.S.
 51 1/2N, 172 1/2W
 Andreanof Islands,
 Aleutian Islands
 H = 17 10 13

Banff
 iP 17 17 09 d
 ePcP 17 19 53
 Halifax
 eP 17 21 04 d
 Horseshoe Bay
 eP 17 16 38
 Kirkland Lake
 eP 17 19 54

Ottawa
 eP 17 20 17 d
 Resolute
 iP 17 17 31 d
 iPcP 17 19 49
 Schefferville
 iP 17 20 01 d

Seven Falls
 eP 17 20 32
 Shawinigan Falls
 iP 17 20 26 c
 Victoria
 eP 17 16 38

SEISMOLOGICAL BULLETIN - 1957

MARCH 9 Resolute eP 17 48 35 d?	MARCH 9 Horseshoe Bay iP 18 11 20 d Victoria iP 18 11 23 c	MARCH 9 Ottawa eP 18 56 25 c Shawinigan Falls eP 18 56 28 c
MARCH 9 Kirkland Lake eP 17 53 04 Ottawa iP 17 53 30 c Shawinigan Falls eP 17 53 35 d	MARCH 9 Ottawa iP 18 14 56 c i 18 15 23	MARCH 9 Schefferville iP 19 02 19
MARCH 9 Resolute eP 17 56 45	MARCH 9 Ottawa iP 18 16 03 d	MARCH 9 Banff eP 19 02 40.0 ePcP 19 05 40.8
MARCH 9 Kirkland Lake eP 18 01 58 Ottawa iP 18 02 25 d Shawinigan Falls eP 18 02 27	MARCH 9 Ottawa eP 18 22 56 c	MARCH 9 Hamilton eP 19 08 41 Kirkland Lake eP 19 08 23 Ottawa iP 19 08 50 c Schefferville eP 19 08 28
MARCH 9 Resolute iP 18 04 12 d Victoria eP 18 03 05	MARCH 9 Banff iP 18 28 38.1 c Kirkland Lake eP 18 31 22 Ottawa eP 18 31 49 c Schefferville iP 18 31 27 d Shawinigan Falls eP 18 31 54 d	MARCH 9 Horseshoe Bay iP 19 19 53 d Kirkland Lake eP 19 22 58 Ottawa eP 19 23 22 c Schefferville eP 19 23 03 d Shawinigan Falls eP 19 23 29 d Victoria iP 19 19 56 c?
MARCH 9 Kirkland Lake eP 18 06 28 Ottawa eP 18 04 26 c i 18 06 57 Schefferville iP 18 06 39 d Shawinigan Falls eP 18 04 29 c i 18 07 02	MARCH 9 Banff eP 18 37 52.3	MARCH 9 Resolute eP 19 41 55 i 19 47 20 e 19 49 28
	MARCH 9 Kirkland Lake eP 18 51 00	

DOMINION OBSERVATORIES

MARCH 9

Ottawa
eP 19 44 42 d
Schefferville
eP 19 44 22
Shawinigan Falls
eP 19 45 01

Resolute

iP 20 08 16 c
iP_CP 20 10 31
iS 20 14 21
Schefferville
iP 20 10 41
Shawinigan Falls
iP 20 11 04 c

Shawinigan Falls

iP 20 32 02 c
Victoria
eP 20 28 10

MARCH 9

U.S.C.G.S.
51 1/2N, 173W
Andreanof Islands,
Aleutian Islands
H = 19 37 31
Banff
eP 19 44 31
Horseshoe Bay
eP 19 43 58
Kirkland Lake
eP 19 47 15
Ottawa
eP 19 47 41
Schefferville
eP 19 47 19 d
Seven Falls
eP 19 47 54 ?
Shawinigan Falls
eP 19 47 47
Victoria
eP 19 43 59

MARCH 9

Banff
iP 20 13 48.6 d
Kirkland Lake
eP 20 16 37
Ottawa
eP 20 16 17

MARCH 9

Resolute
e(P) 20 38 53

MARCH 9

Ottawa
iP 20 17 04
Schefferville
eP 20 16 44.5 d
e 20 16 45 c
Shawinigan Falls
eP 20 17 09 d

MARCH 9

Banff
eP 20 40 35 d
Horseshoe Bay
iP 20 40 04 c
eP_CP 20 42 35
Victoria
iP 20 40 05.5 c

MARCH 9

U.S.C.G.S.
52N, 169 1/2W
Fox Islands, Aleutian
Islands
H = 20 22 02

MARCH 9

Schefferville
iP 20 41 34
e 20 43 14

MARCH 9

Ottawa
iP 19 55 03 d

MARCH 9

Ottawa
eP 20 48 52
Schefferville
iP 20 48 50
Shawinigan Falls
eP 20 48 57

MARCH 9

U.S.C.G.S.
51 1/2N, 170 1/2W
Fox Islands, Aleutian
Islands
H = 20 00 56
Banff
iP 20 07 43.7 d
Kirkland Lake
eP 20 10 32
Ottawa
iP 20 10 59 d

Kirkland Lake
eP 20 31 31
Ottawa
iP 20 31 59 c
PP 20 34 05
Resolute
iP 20 29 16 c
iP_CP 20 31 34
eL 20 45 30
Schefferville
eP 20 31 45 d

MARCH 9

U.S.C.G.S.
52 1/2N, 169 1/2W
Fox Islands, Aleutian
Islands
H = 20 39 15
Mag. = 6 3/4 - 7 (Pas.)
7 - 7 1/4 (Berk)

SEISMOLOGICAL BULLETIN - 1957

Banff		Victoria		MARCH 9
eP	20 45 53	eP	20 45 28.5	U.S.C.G.S.
e	20 48 39	P _c P	20 48 26.5	53N, 168W
Halifax		S	20 50 15	Fox Islands, Aleutian
iP	20 49 55			Islands
eL	21 16.1			H = 21 56 24
Hamilton		MARCH 9		Kirkland Lake
iP	20 49 07 c	Banff		eP
PP	20 51 15	iP	21 27 00.2 d	22 05 43
S	20 56 56	Ottawa		Ottawa
S _c S	20 58 46	iP	21 30 18	iP
SS	21 00 59	Resolute		22 06 11 c
G	21 03 07	iP	21 29 33 c	Resolute
Horseshoe Bay		Schefferville		eP
eP	20 45 20	iP	21 29 57 d	22 03 24 c
eP _c P	20 48 28			i
e	20 52 08			22 03 25 d
eS	20 50 11			Schefferville
Kirkland Lake		MARCH 9		eP
eP	20 48 41	Shawinigan Falls		22 05 52.5 c
Ottawa		eP	21 42 09	iP
iP	20 49 10 c			22 05 53 d
P _c P	20 50 08			Shawinigan Falls
PP	20 51 20			eP
S	20 57 08			22 06 15 c
S _c S	20 59 00			MARCH 9
SS	21 01 02			Ottawa
Resolute		MARCH 9		eP
iP	20 46 24	Banff		22 14 23 d
iPP	20 47 36	eP	21 41 13	MARCH 9
eL	20 59 08	Ottawa		U.S.C.G.S.
Saskatoon		iP	21 44 30 d	Southern Bolivia
eP	20 46 34	Schefferville		H = 22 19 15
eS	20 52 22	eP	21 44 09 c	Banff
eL	20 57.0	Shawinigan Falls		iP
Seven Falls		iP	21 44 36 d	22 31 47.5 d
eP	20 49 21 ?			Kirkland Lake
P _c P	20 50 10 ?	MARCH 9		eP
PP	20 51 28 ?	Ottawa		22 30 21 d
PPP	20 53 00 ?	iP	21 47 28 d	Ottawa
e	20 55 09 ?	Shawinigan Falls		eP
S	20 57 22 ?	eP	21 47 32 c	22 30 00
S _c S	20 58 59 ?			Shawinigan Falls
e	21 00 07 ?			eP
e	21 02 32 ?			22 30 05 d
L	21 03 43 ?			MARCH 9
Shawinigan Falls		MARCH 9		Schefferville
eP	20 49 14 c	Ottawa		eP
S	20 57 15	iP	21 52 00	22 45 49
		Shawinigan Falls		MARCH 9
		eP	21 52 04 d	Ottawa
				iP
				22 52 52 d

DOMINION OBSERVATORIES

MARCH 9	Resolute		Shawinigan Falls
U.S.C.G.S.	i	23 28 52	eP 00 50 59
51 1/2N, 171W	Schefferville		
Fox Islands, Aleutian	iP	23 30 40 c	
Islands	Shawinigan Falls		MARCH 10
H = 22 59 26	eP	23 31 05	Resolute
Kirkland Lake			eP 00 57 13
eP 23 09 07			
Ottawa	MARCH 9		MARCH 10
eP 23 09 43 c	Ottawa		Schefferville
Resolute	eP	23 33 53 d	eP 00 59 52
iP 23 06 45 d	Shawinigan Falls		
ScS 23 16 32	eP	23 33 58	
Schefferville			MARCH 10
eP 23 09 13 d			Shawinigan Falls
	MARCH 9		eP 01 10 26
	Ottawa		
MARCH 9	eP	23 48 03 d	MARCH 10
Ottawa	Shawinigan Falls		Banff
iP 23 17 17 d	eP	23 48 07 c	iP 01 17 36.1 c
Shawinigan Falls			
eP 23 17 20			MARCH 10
	MARCH 10		Resolute
	Resolute		e(P) 00 13 38
MARCH 9	Schefferville		MARCH 10
Kirkland Lake	eP	00 16 06	Banff
eP 23 19 05			iP 01 23 37.5 d
Schefferville			Kirkland Lake
eP 23 18 59			eP 01 26 26
	MARCH 10		iP 01 26 53 d
	Kirkland Lake		Resolute
MARCH 9	eP	00 21 10	eP 01 24 04
Ottawa	Ottawa		Schefferville
iP 23 23 19 d	eP	00 21 37	eP 01 26 33
	Schefferville		Shawinigan Falls
	iP	00 21 10 c	eP 01 26 57
MARCH 9	Shawinigan Falls		
Ottawa	eP	00 21 42 d	MARCH 10
iP 23 29 30 d			Kirkland Lake
Shawinigan Falls			eP 01 31 32
eP 23 29 34 c	MARCH 10		Ottawa
	Resolute		iP 01 32 00 c
	iP	00 40 09	Schefferville
MARCH 9			eP 01 31 38 d
Banff	MARCH 10		Shawinigan Falls
eP 23 27 49	Ottawa		eP 01 32 03 c
Kirkland Lake	iP	00 50 42 d	
eP 23 30 34	Schefferville		
Ottawa	eP	00 50 51 c	
iP 23 31 02 c			

SEISMOLOGICAL BULLETIN - 1957

MARCH 10 Ottawa iP 01 38 21 d	MARCH 10 Resolute iP 03 04 52 c	s 03 24 51 ? S _C S 03 26 24 ? e 03 27 39 ? L 03 31 56 ?
MARCH 10 Banff iP 01 50 43.5 P _C P 01 53 03.5 Horseshoe Bay iP 01 50 12 c e 01 52 53 Kirkland Lake eP 01 54 16 Ottawa iP 01 53 50 c Resolute eP 01 50 56 d Shawinigan Falls iP 01 53 54 c Victoria iP 01 50 14.8 c iP _C P 01 52 53.8	MARCH 10 U.S.C.G.S. 52N, 176W Andreanof Islands, Aleutian Islands H = 03 06 02 Mag. = 6 1/2 - 6 3/4 (Pas) (Berk) Banff eP 03 13 10.2 i 03 13 15.0 d eP _C P 03 16 04 Halifax eP 03 17 07 Hamilton e(P) 03 16 21 S 03 24 31 S _C S 03 25 56 SS 03 29 09 L 03 33 47 Horseshoe Bay eP 03 12 43 eP _C P 03 15 29 iS 03 17 53 Kirkland Lake eP 03 15 55 d Ottawa eP 03 16 21 c S 03 24 36 Resolute iP 03 13 30 d PP 03 14 56 i 03 15 10 e 03 18 05 eS 03 19 16 eSS 03 22 19 eL 03 29 19 Saskatoon eP 03 13 56 eS 03 20 00 Seven Falls eP 03 16 32 ?	Shawinigan Falls eP 03 16 25 P _C P 03 17 21 PP 03 19 11 S 03 24 56 Victoria eP 03 12 45 eP _C P 03 15 33 S 03 17 54 L 03 20 04 MARCH 10 U.S.C.G.S. 51 1/2N, 174W Andreanof Islands, Aleutian Islands H = 03 08 55 Ottawa eP 03 19 12 d Shawinigan Falls eP 03 19 18 MARCH 10 Ottawa iP 03 25 47 d MARCH 10 Ottawa iP 03 26 12 c MARCH 10 Ottawa iP 03 36 29 c MARCH 10 Resolute eP 03 41 05 Shawinigan Falls iP 03 43 09

DOMINION OBSERVATORIES

MARCH 10

Ottawa
iP 04 04 15 c
Shawinigan Falls
iP 04 04 20 c

MARCH 10

Victoria
iP 04 22 09.3

MARCH 10

Resolute
eP 04 40 59
e 04 46 06

MARCH 10

Shawinigan Falls
iP 04 45 35 c

MARCH 10

Kirkland Lake
eP 04 46 51
Ottawa
iP 04 47 18 d
Shawinigan Falls
eP 04 47 22 d

MARCH 10

U.S.C.G.S.
52N, 170W
Fox Islands,
Aleutian Islands
H = 04 41 04
Kirkland Lake
eP 04 50 34 d
Ottawa
iP 04 51 02 d
Shawinigan Falls
eP 04 51 05 d

MARCH 10

U.S.C.G.S.
52N, 174W
Andreanof Islands,
Aleutian Islands
H = 05 33 27
Banff
iP 05 40 26
Kirkland Lake
eP 05 43 10
Ottawa
eP 05 43 38 c
Resolute
eP 05 40 38
Shawinigan Falls
eP 05 43 42

MARCH 10

Resolute
eP 05 49 13 d

MARCH 10

Ottawa
iP 06 30 39 c
Resolute
eP 06 27 54
Shawinigan Falls
eP 06 30 44

MARCH 10

Shawinigan Falls
eP 07 16 05

MARCH 10

U.S.C.G.S.
52N, 176W
Andreanof Islands,
Aleutian Islands
H = 07 23 18
Banff
iP 07 30 30 d
Horseshoe Bay
iP 07 29 58 d
Kirkland Lake
eP 07 33 12

Ottawa

iP 07 33 38 d
Resolute
eP 07 30 45
iPCP 07 32 54
Shawinigan Falls
eP 07 33 42
Victoria
iP 07 30 00.2

MARCH 10

U.S.C.G.S.
53N, 168W
Fox Islands, Aleutian
Islands
H = 07 31 36
Banff
iP 07 37 59.9 c
Ottawa
iP 07 41 19 d
Resolute
eP 07 38 29 c
eS 07 44 43
Shawinigan Falls
eP 07 41 24 c

MARCH 10

Resolute
e(P) 08 02 31

MARCH 10

Resolute
eP 09 12 59

MARCH 10

Banff
iP 09 30 46.0 c
Ottawa
iP 09 33 56 d
Resolute
e(P) 09 33 16
Shawinigan Falls
iP 09 34 00 d

MARCH 10

Resolute
eP 09 57 45 c

SEISMOLOGICAL BULLETIN - 1957

MARCH 10 Ottawa iP 10 06 09 c	Kirkland Lake eP 11 30 19 Ottawa iP 11 30 47 c PP 11 32 52 S 11 38 52 Resolute iP 11 27 57 c iS 11 34 05 eL 11 43 20 Seven Falls eP 11 31 01 S 11 39 05 Shawinigan Falls eP 11 30 53 Victoria eP 11 27 01 eP _C P 11 30 01 S 11 32 00	MARCH 10 U.S.C.G.S. 51N, 171W Fox Islands, Aleutian Islands H = 12 36 04 Banff iP 12 42 51.4 Horseshoe Bay eP 12 42 19 e 12 45 22 Kirkland Lake eP 12 45 41 Ottawa iP 12 46 09 d Resolute eP 12 43 24 i 12 43 25 c Seven Falls eP 12 46 24 ? Shawinigan Falls eP 12 46 14 Victoria eP 12 42 23
MARCH 10 Banff eP 10 20 26 Horseshoe Bay eP 10 19 54 Victoria eP 10 19 57.1	MARCH 10 Resolute e(P) 10 26 26	
MARCH 10 Resolute e(P) 10 44 12	MARCH 10 Resolute iP 12 01 12 d	
MARCH 10 Shawinigan Falls iP 10 47 08 d	MARCH 10 U.S.C.G.S. Andreanof Islands, Aleutian Islands H = 12 12 18 Banff iP 12 19 28 c Kirkland Lake eP 12 22 17 Ottawa eP 12 22 44 c Resolute eP 12 19 56 d i 12 20 18 S 12 25 56 Shawinigan Falls eP 12 22 49 d Victoria eP 12 19 40	MARCH 10 U.S.C.G.S. 51N, 177W Andreanof Islands, Aleutian Islands H = 12 45 31 Banff iP 12 52 50.5 d? Horseshoe Bay eP 12 52 18 Kirkland Lake eP 12 52 32 Ottawa iP 12 55 58 Resolute iP 12 53 09 d? Shawinigan Falls iP 12 56 03 c Victoria eP 12 52 22
MARCH 10 52N, 171W Fox Islands, Aleutian Islands H = 11 20 45 Banff eP 11 27 28 eP _C P 11 29 59 Halifax eP 11 31 33 Horseshoe Bay eP 11 27 00 eP _C P 11 30 00 eS 11 31 52		

DOMINION OBSERVATORIES

MARCH 10	Resolute	Banff
Banff	eP 13 36 03	eP 15 33 18
iP 12 57 49.5 d	eS 13 41 55	Halifax
i 12 57 59	Seven Falls	eP 15 37 15
	eP 13 39 12 ?	Hamilton
	Shawinigan Falls	eP 15 36 34
	eP 13 39 02	PP 15 38 36
MARCH 10	Victoria	PPP 15 40 36
U.S.C.G.S.	eP 13 35 27	S 15 44 40
51 1/2N, 180		G 15 52 35
Andreanof Islands,		Horseshoe Bay
Aleutian Islands	MARCH 10	iP 15 32 51
H = 13 10 13	Banff	eS 15 37 52
Banff	eP 13 52 59	Kirkland Lake
eP 13 17 44		eP 15 36 04 c
Horseshoe Bay		Ottawa
eP 13 17 09	MARCH 10	iP 15 36 32 d
Kirkland Lake	Banff	S 15 44 40
eP 13 20 21	iP 13 56 48.5 c	Resolute
Ottawa		iP 15 33 39 c
eP 13 20 47		ePP 15 35 00
Resolute	MARCH 10	eS 15 39 32
eP 13 17 50 c?	Resolute	eL 15 48 32
eS 13 23 42	eP 14 53 10	Seven Falls
Shawinigan Falls	Shawinigan Falls	eP 15 30 42 ?
eP 13 20 50	eP 14 56 01	S 15 45 00 ?
Victoria		L 15 54 00 ?
eP 13 17 17		Shawinigan Falls
S 13 23 01		iP 15 36 36 d
	MARCH 10	PcP 15 37 27
	Banff	Victoria
	eP 15 31 54	eP 15 32 48
		is 15 37 58
	MARCH 10	
	Ottawa	
	iP 15 35 10 d	MARCH 10
MARCH 10	Seven Falls	Resolute
U.S.C.G.S.	eP 15 35 19 ?	eP 15 52 49
51 1/2N, 179W	Shawinigan Falls	
Andreanof Islands,	eP 15 35 11	
Aleutian Islands		
H = 13 28 30		
Banff		MARCH 10
iP 13 35 53.2 d	MARCH 10	Banff
Horseshoe Bay	U.S.C.G.S.	eP 16 38 38 d
eP 13 35 24	52N, 173W	Horseshoe Bay
Kirkland Lake	Andreanof Islands,	eP 16 38 05
eP 13 38 34	Aleutian Islands	Victoria
Ottawa	H = 15 26 23	eP 16 38 09
iP 13 39 00	Mag. = 6 3/4 (Pas.)	

SEISMOLOGICAL BULLETIN - 1957

MARCH 10 Resolute eP 16 41 05	MARCH 10 Kirkland Lake eP 17 55 41 Ottawa eP 17 56 00 Resolute eP 17 53 17 Shawinigan Falls eP 17 56 08 c	Kirkland Lake eP 19 50 37 Ottawa iP 19 51 05 Resolute eP 19 48 19 iS 19 54 18 Seven Falls eP 19 51 14 Shawinigan Falls eP 19 51 09
MARCH 10 Banff iP 16 44 43 c	MARCH 10 Kirkland Lake eP 18 23 36 Ottawa iP 18 23 17 c Shawinigan Falls eP 18 23 27 c	MARCH 10 Banff eP 19 47 51.5 d
MARCH 10 U.S.C.G.S. 51 1/2N, 173 1/2W Andreanof Islands, Aleutian Islands H = 16 37 45 Banff eP 16 46 44 eP _C P 16 49 15 Kirkland Lake eP 16 47 28 c? Ottawa iP 16 47 56 d Resolute eP 16 45 05 Seven Falls eP 16 48 05 ? Shawinigan Falls iP 16 48 00 c Victoria e 16 46 14	MARCH 10 Resolute e(P) 18 26 24	MARCH 10 Resolute eP 20 43 28
MARCH 10 Kirkland Lake eP 16 49 29 d? Ottawa iP 16 49 55 c Resolute e(P) 16 47 02 i 16 49 21 Seven Falls eP 16 50 04 ? Shawinigan Falls eP 16 49 59 d	MARCH 10 U.S.C.G.S. 51N, 177W Andreanof Islands, Aleutian Islands H = 19 18 30 Kirkland Lake eP 19 28 32 c Ottawa eP 19 29 01 Resolute eP 19 26 06 c Shawinigan Falls eP 19 29 02 c	MARCH 10 Resolute eP 21 03 55 c?
MARCH 10 Resolute e(P) 16 53 08	MARCH 10 U.S.C.G.S. 52N, 173W Andreanof Islands, Aleutian Islands H = 19 40 55 Banff iP 19 46 52.7 d	MARCH 10 Kirkland Lake eP 21 41 58 Ottawa iP 21 42 26 d Resolute iP 21 39 37 d Shawinigan Falls eP 21 42 30

DOMINION OBSERVATORIES

MARCH 10
 Resolute
 e(P) 22 06 50

Resolute
 eP 24 03 50 c
 i 24 03 51 d
 Shawinigan Falls
 iP 24 06 42 d

Horseshoe Bay
 iP 03 19 28 d
 eS 03 24 58

MARCH 10
 Resolute
 eP 23 22 33

MARCH 11
 U.S.C.G.S.
 52N, 174W
 Fox Islands, Aleutian
 Islands,
 H = 00 08 07
 Banff
 eP 00 14 43

Kirkland Lake
 eP 02 00 42 c
 e 02 00 51
 Ottawa
 iP 02 01 09 d

MARCH 10
 Banff
 eP 23 24 00
 Ottawa
 eP 23 27 19 c
 Shawinigan Falls
 eP 23 27 23

Banff
 eP 00 14 43
 Horseshoe Bay
 eP 00 14 10

Resolute
 eP 01 58 23
 Saskatoon
 eP 03 20 41
 eS 03 26 51
 Shawinigan Falls
 eP 02 01 13

MARCH 10
 Banff
 iP 23 44 00 d
 Kirkland Lake
 eP 23 46 42
 Ottawa
 iP 23 47 08 c
 Resolute
 eP 23 44 18
 Shawinigan Falls
 eP 23 47 12

Kirkland Lake
 eP 00 17 34 c
 Ottawa
 eP 00 18 02 c
 i 00 18 13
 Resolute
 iP 00 15 17 d
 e 00 19 22
 eL 00 31 48
 Shawinigan Falls
 eP 00 18 06

MARCH 11
 Kirkland Lake
 eP 02 54 22
 Shawinigan Falls
 eP 02 54 53

MARCH 10
 Ottawa
 iP 23 47 22 c
 Shawinigan Falls
 iP 23 47 26 c

MARCH 11
 Resolute
 eP 01 14 29

MARCH 11
 U.S.C.G.S.
 51N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 03 12 41
 Mag. = 6 3/4 - 7
 (Pas.) (Berk)

MARCH 10
 U.S.C.G.S.
 53N, 169W
 Fox Islands
 H = 23 56 50
 Kirkland Lake
 eP 24 06 10
 Ottawa
 iP 24 06 37 c

MARCH 11
 Banff
 iP 01 35 21.5 c
 Ottawa
 iP 01 38 33 d

Banff
 iP 03 19 59.2
 Halifax
 eP 03 23 53
 Hamilton
 eP 03 23 03
 P_cP 03 23 57
 S 03 31 37
 PS 03 32 14
 PPS 03 32 33
 L 03 43 03

MARCH 11
 U.S.C.G.S.
 Fox Islands, Aleutian
 Islands
 H = 01 50 53
 Banff
 iP 03 19 59.2 d

Horseshoe Bay
 iP 03 19 28 d
 eS 03 24 58
 Kirkland Lake
 eP 03 22 45 d

SEISMOLOGICAL BULLETIN - 1957

Ottawa
 iP 03 23 07 d
 S 03 31 36
 Resolute
 iP 03 20 16 d
 iPP 03 21 51
 e 03 24 17
 e 03 24 37
 e 03 25 54
 eL 03 29 30
 Saskatoon
 eP 03 20 41
 eS 03 26 51
 Seven Falls
 eP 03 23 21 ?
 S 03 31 45 ?
 e 03 34 59 ?
 L 03 38 33 ?
 Shawinigan Falls
 eP 03 23 11
 Victoria
 iP 03 19 30.5 d
 iS 03 25 02
 eL 03 26.5

MARCH 11

Banff
 iP 03 29 13 d
 Horseshoe Bay
 eP 03 28 43
 Victoria
 eP 03 28 45

MARCH 11

U.S.C.G.S.
 51 1/2N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 03 35 00
 Banff
 eP 03 42 18
 Kirkland Lake
 eP 03 45 00 c
 Ottawa
 iP 03 45 27 c
 Seven Falls
 eP 03 45 35 ?

Shawinigan Falls
 eP 03 45 29
 MARCH 11
 U.S.C.G.S.
 50 1/2N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 03 55 27
 Banff
 iP 04 02 41.8
 Ottawa
 iP 04 05 50 c
 i 04 06 01
 Shawinigan Falls
 eP 04 05 54
 e 04 06 06

MARCH 11

U.S.C.G.S.
 51N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 04 05 09
 Banff
 eP 04 12 29 d?
 Horseshoe Bay
 iP 04 11 58 d
 Kirkland Lake
 iP 04 15 10 c
 Ottawa
 iP 04 15 37 c
 Resolute
 iP 04 12 44 c
 Shawinigan Falls
 iP 04 15 40 c

MARCH 11

Victoria
 iP 04 27 01 c

MARCH 11

Schefferville
 iP 05 00 26.5
 i 05 00 38.5

MARCH 11

Resolute
 eP 05 35 04 c
 Schefferville
 iP 05 37 36 d

MARCH 11

U.S.C.G.S.
 51 1/2N, 168W
 Fox Islands, Aleutian
 Islands
 H = 06 42 49
 Ottawa
 iP 06 52 39 c
 i 06 52 49
 Resolute
 iP 06 49 56 c
 Schefferville
 eP 06 52 15 c
 Shawinigan Falls
 eP 06 52 42

MARCH 11

U.S.C.G.S.
 51 1/2N, 170 1/2W
 Fox Islands, Aleutian
 Islands
 H = 06 51 56
 Banff
 iP 06 58 36.9 d
 Kirkland Lake
 eP 07 01 26
 Ottawa
 iP 07 01 54 d
 Resolute
 iP 06 59 11 c
 Schefferville
 iP 07 01 39 d
 Shawinigan Falls
 iP 07 02 05 c

MARCH 11

U.S.C.G.S.
 51N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 07 08 00

DOMINION OBSERVATORIES

Banff		MARCH 11		MARCH 11	
iP	07 15 17 c	Ottawa		Shawinigan Falls	
Horseshoe Bay		eP	08 37 52 c	iP	10 07 07
iP	07 14 47 d	Shawinigan Falls			
Kirkland Lake		eP	08 37 56		
eP	07 17 58 d			MARCH 11	
Ottawa				U.S.C.G.S.	
iP	07 18 25 c	MARCH 11		53N, 164 1/2W	
Resolute		U.S.C.G.S.		Fox Islands, Aleutian	
iP	07 15 32 d	53N, 168W		Islands	
i	07 17 40 d	Fox Islands, Aleutian		H = 09 58 42	
Schefferville		Islands		Mag. = 6 3/4 - 7	
iP	08 18 06 d	H = 08 37 15		Banff	
Shawinigan Falls		Kirkland Lake		eP	10 05 17
eP	07 18 28 d	e(P)	08 46 40	eP _c P	10 08 04
		Ottawa		Halifax	
		eP	08 47 01 c	eP	10 09 22
MARCH 11		Resolute		Hamilton	
Schefferville		iP	08 44 16 c	e(P)	10 08 40
eP	07 20 45 d	eL	08 54 32	P _c P	10 09 10
		Schefferville		S	10 16 26
		eP	08 46 47	S _c S	10 18 20
MARCH 11		i	08 46 56.5	SSS	10 23 00
Banff		Shawinigan Falls		L	10 25 00
iP	07 27 57.5 c	eP	08 47 06	Horseshoe Bay	
i	07 28 18 d?			eP	10 04 47
Schefferville				eP _c P	10 07 57
eP	07 31 09 c			eS	10 09 38
		MARCH 11		Kirkland Lake	
		U.S.C.G.S.		eP	10 08 08 c
		50 1/2N, 178W		eS	10 15 42
		Andreanof Islands,		Ottawa	
		Aleutian Islands		iP	10 08 35 c
		H = 08 42 48		PP	10 10 48
		Banff		S	10 16 28
		iP	08 50 13 d	S _c S	10 18 22
		Kirkland Lake		L	10 20 25
		eP	08 52 55	Resolute	
		Ottawa		e(P)	10 04 15
		eP	08 53 20	iP	10 05 47 c
		Schefferville		ePP	10 07 19
		iP	08 53 01.5 c	iS	10 11 24
		i	08 53 08 c	i	10 11 56
		Shawinigan Falls		eL	10 13 44
		eP	08 53 26	Saskatoon	
				eP	10 05 59
				eS	10 11 36
				Schefferville	
				eP	10 08 19.5
				i	10 08 20.5
				ePP	10 10 41
MARCH 11		MARCH 11			
Ottawa		Schefferville			
iP	08 08 53 d	eP	08 57 03 c		
Schefferville		i	08 57 15 d		
ep	08 08 34.5 c				

SEISMOLOGICAL BULLETIN - 1957

Seven Falls

iP 10 08 45 ?
PP 10 10 59 ?
PPP 10 12 09 ?
S 10 16 47 ?
S_cS 10 18 51 ?
e 10 19 53 ?
L 10 20 53 ?

Shawinigan Falls

iP 10 08 39 c
P_cP 10 09 32
PP 10 11 05
PPP 10 12 12
S 10 16 38

Victoria

eP 10 04 49 c
iS 10 09 35
eL 10 12.1

MARCH 11

Schefferville

eP 10 28 29 c

MARCH 11

U.S.C.G.S.
2N, 97E

Off coast of Sumatra

H = 12 09 10

Kirkland Lake

eP' 12 28 24

ePKS 12 31 41

Resolute

eP 12 23 12

Schefferville

eP 12 28 08

e 12 39 44

Shawinigan Falls

eP' 12 28 25 d

PP 12 30 45

PKS 12 31 47

MARCH 11

Schefferville

iP 13 12 41.5 c

MARCH 11

Schefferville

eP 13 52 39 c

MARCH 11

Schefferville

eP 14 23 11.5

MARCH 11

Schefferville

eP 14 14 22 d

MARCH 11

U.S.C.G.S.

51 1/2N, 178 1/2W

Andreanof Islands,

Aleutian Islands

H = 14 55 19

Mag. = 6 3/4

Alberni

eP 15 02 04

Banff

eP 15 02 42 c?

Halifax

iP 15 06 28 c

eL 15 37.8

Hamilton

iP 15 05 54 d

P_cP 15 06 33

iS 15 14 18

PS 15 14 52

S_cS 15 15 41

G 15 21 03

Horseshoe Bay

iP 15 02 12

i 15 02 14

P_cP 15 04 47

eS 15 06 13

Kirkland Lake

eP 15 05 21 c?

Ottawa

iP 15 05 46 c

S 15 14 14

S_cS 15 15 34

Resolute

eP 15 02 53 c

iP 15 02 54 c

iPP 15 04 30

iS 15 08 46

eL 15 12 09

Saskatoon

eP 15 03 21

eS 15 09 47

Schefferville

eP 15 05 28 d

i 15 05 31 c

Seven Falls

P 15 05 56 ?

P_cP 15 06 45 ?

PP 15 08 21 ?

e 15 08 59 ?

S 15 14 20 ?

e 15 17 40 ?

L 15 21 10 ?

Shawinigan Falls

iP 15 05 51 c

Victoria

eP 15 02 14 c

iS 15 07 46

eL 15 10.1

MARCH 11

Banff

iP 15 22 43.7

Ottawa

iP 15 25 57 d

Shawinigan Falls

eP 15 26 01

MARCH 11

U.S.C.G.S.

51N, 179W

Andreanof Islands,

Aleutian Islands

H = 15 35 50

Mag. = 6 1/2

Alberni

eP 15 42 42

Banff

iP 15 43 20 d

Halifax

eP 15 47 04

Horseshoe Bay

eP 15 42 50

Kirkland Lake

eP 15 45 58

Ottawa

eP 15 46 23 c

PP 15 48 39

DOMINION OBSERVATORIES

Resolute		Victoria		MARCH 12	
iP	15 43 29 c	eP	21 23 58	Horseshoe Bay	
PPP	15 45 12			eP	00 41 35
iS	15 49 21			Resolute	
Schefferville		MARCH 11		eP	00 42 45
eP	15 46 03 c	Schefferville		Schefferville	
i	15 46 04 d	iP	21 50 24 c	eP	00 45 14
i	15 46 53			i	00 45 15 c
Seven Falls		MARCH 11		Victoria	
eP	15 46 30 ?	U.S.C.G.S.		eP	00 41 31
Shawinigan Falls		52N, 173W			
iP	15 46 26 c	Andreanof Islands,		MARCH 12	
Victoria		Aleutian Islands		U.S.C.G.S.	
eP	15 42 52	H = 23 32 03		52N, 174 1/2W	
		Horseshoe Bay		Andreanof Islands,	
MARCH 11		iP	23 39 15 c?	Aleutian Islands	
Banff		Resolute		H = 01 02 33	
eP	15 49 19	eP	23 39 39	Banff	
		e(L)	23 59 55	eP	01 09 39
MARCH 11		Schefferville		Horseshoe Bay	
Schefferville		eP	23 42 05	eP	01 09 07
eP	16 26 13	e	23 42 29	Kirkland Lake	
		Victoria		eP	01 12 22 d
		eP	23 39 19	Ottawa	
				iP	01 12 48 d
MARCH 11				Resolute	
Schefferville		MARCH 11		eP	01 09 58 d
eP	18 38 31 d	Schefferville		PPP	01 12 11
		eP	23 51 58 d	Schefferville	
				iP	01 12 30 d
MARCH 11				e	01 14 21.5
Kirkland Lake		MARCH 12		i	01 14 22 c
eP	20 17 08	Schefferville		Shawinigan Falls	
Schefferville		eP	00 00 25 d	iP	01 12 43 d
eP	20 17 39			Victoria	
				eP	01 09 10
MARCH 11		MARCH 12		MARCH 12	
Resolute		U.S.C.G.S.		Ottawa	
eP	20 46 16	53N, 168W		eP	01 56 43 d
Schefferville		Fox Islands, Aleutian		Schefferville	
eP	20 48 39	Islands		eP	01 56 24 c
		H = 00 18 00		Shawinigan Falls	
		Schefferville		iP	01 56 46 d
		eP	00 27 35		
MARCH 11		Shawinigan Falls			
Resolute		eP	00 27 56 d		
eP	21 24 41				
Schefferville					
eP	21 27 19				

SEISMOLOGICAL BULLETIN - 1957

MARCH 12

U.S.C.G.S.
 53N, 170 1/2W
 Fox Islands, Aleutian
 Islands
 H = 02 22 57
 Kirkland Lake
 eP 02 32 20
 Ottawa
 eP 02 32 54 d
 Schefferville
 iP 02 32 36 d
 Shawinigan Falls
 iP 02 32 59 d

MARCH 12

Resolute
 e(P) 03 02 05
 Schefferville
 eP 03 04 35

MARCH 12

Kirkland Lake
 eP 03 58 19 c?
 Schefferville
 eP 03 58 15.5 c

MARCH 12

Banff
 eP 04 50 15 d?

MARCH 12

Resolute
 e(P) 04 56 15
 Schefferville
 iP 04 58 43 d
 i 04 58 43.5 c

MARCH 12

U.S.C.G.S.
 52 1/2N, 169W
 Fox Islands, Aleutian
 Islands
 H = 05 12 08

Banff

eP 05 18 40 d?
 Kirkland Lake
 eP 05 21 31
 Ottawa
 eP 05 21 57 c
 Resolute
 eP 05 19 12
 Schefferville
 eP 05 21 41 c
 Shawinigan Falls
 eP 05 22 02

MARCH 12

U.S.C.G.S.
 Fox Islands, Aleutian
 Islands
 H = 06 02 47
 Resolute
 eP 06 09 34
 Schefferville
 iP 06 12 03

MARCH 12

Schefferville
 iP 06 40 07 c

MARCH 12

U.S.C.G.S.
 51 1/2N, 173 1/2W
 Andreanof Islands,
 Aleutian Islands
 H = 07 28 46
 Mag. = 6 1/4 - 6 1/2
 Banff
 iP 07 35 45 c
 Halifax
 eP 07 39 40
 eL 07 09 09
 Hamilton
 eP 07 39 00
 S 07 47 04
 S_cS 07 48 45
 L 07 56 00
 Horseshoe Bay
 eP 07 35 17
 eS 07 40 24

Kirkland Lake

eP 07 38 30 c?
 Ottawa
 iP 07 38 57 c
 P_cP 07 39 51
 PPP 07 42 16
 S 07 47 12
 S_cS 07 48 50
 Resolute
 iP 07 36 08 c
 PP 07 37 58
 S 07 42 13
 Saskatoon
 eP 07 36 26
 eS 07 42 29

Seven Falls

iP 07 39 07 ?
 S 07 47 23 ?
 S_cS 07 48 57 ?
 L 07 54 53 ?
 Shawinigan Falls
 iP 07 39 01 c
 Victoria
 eP 07 35 17
 iS 07 40 29
 eL 07 42.8

MARCH 12

Schefferville
 eP 07 43 38.5 d
 i 07 43 40

MARCH 12

U.S.C.G.S.
 52N, 178W
 Andreanof Islands,
 Aleutian Islands
 H = 07 39 17
 Banff
 eP 07 46 40 c?
 Halifax
 eP 07 50 24
 Horseshoe Bay
 iP 07 46 09 c?
 Kirkland Lake
 eP 07 49 20 c
 Ottawa
 iP 07 49 44 d

DOMINION OBSERVATORIES

Resolute
 iP 07 46 34
 eL 07 51 27
Schefferville
 eP 07 49 24 d
 i 07 49 30 c
Seven Falls
 eP 07 49 53 ?
Shawinigan Falls
 eP 07 49 48
Victoria
 iP 07 46 12 c

MARCH 12
 U.S.C.G.S.
 51N, 178W
Andreanof Islands,
Aleutian Islands
 H = 08 03 11
Banff
 eP 08 10 37
Halifax
 eP 08 14 19
Hamilton
 eP 08 13 34
Horseshoe Bay
 eP 08 10 04
Kirkland Lake
 eP 08 13 13 c?
Ottawa
 iP 08 13 40 c
Resolute
 iP 08 10 48
 P_CP 08 12 35
Schefferville
 eP 08 13 21
Shawinigan Falls
 eP 08 13 44 d
Victoria
 iP 08 10 08

MARCH 12
Ottawa
 iP 08 18 28 c
Schefferville
 iP 08 18 14 c
Shawinigan Falls
 eP 08 18 33

MARCH 12
Ottawa
 iP 08 27 57 d
Shawinigan Falls
 eP 08 28 02

MARCH 12
Ottawa
 eP 08 37 42
Shawinigan Falls
 eP 08 37 46

MARCH 12
Schefferville
 eP 08 50 22

MARCH 12
Ottawa
 eP 08 56 55
Shawinigan Falls
 eP 08 57 00 d

MARCH 12
Schefferville
 eP 09 15 58

MARCH 12
Ottawa
 iP 09 31 41 d
Shawinigan Falls
 eP 09 31 46

MARCH 12
Schefferville
 eP 09 45 33 c

MARCH 12
 U.S.C.G.S.
 51 1/2N, 174 1/2W
Andreanof Islands,
Aleutian Islands
 H = 10 38 30

Kirkland Lake
 eP 10 48 16
Ottawa
 eP 10 48 43 c
Schefferville
 eP 10 48 25
Shawinigan Falls
 eP 10 48 48

MARCH 12
 U.S.C.G.S.
 51N, 177W
Andreanof Islands,
Aleutian Islands
 H = 11 44 50
 Mag. = 7 - 7 1/4
Alberni
 iP 11 51 30
Banff
 iP 11 52 08 d
Halifax
 eP 11 55 55
 e 11 56 03
Hamilton
 eP 11 55 27
 P_CP 11 56 15
 PPP 11 59 45
 S 12 03 41
 S_CS 12 05 15
Horseshoe Bay
 eP 11 51 37
 e 11 57 14
Kirkland Lake
 e(P) 11 54 50
 i 11 54 58 c
Ottawa
 iP 11 55 15 d
 P_CP 11 56 06
 S 12 03 52
 S_CS 12 05 16
Resolute
 eP 11 52 22
 i 11 52 31 c
 PP 11 53 52
 S 11 58 22
 L 12 01 38
Saskatoon
 iP 11 52 57
 iS 11 59 06

SEISMOLOGICAL BULLETIN - 1957

Schefferville
 eP 11 54 58
 e 11 58 47
Seven Falls
 eP 11 55 28 ?
 PPP 11 59 33 ?
 i 11 59 53 ?
 S 12 04 03 ?
 S_CS 12 05 34 ?
 e 12 07 11 ?
 L 12 10 45 ?
Shawinigan Falls
 eP 11 55 19
 S 12 03 56
 S_CS 12 05 20
Victoria
 iP 11 51 41 d
 iS 11 57 21

Halifax
 iP 12 56 43 d
Kirkland Lake
 eP 12 55 32 c?
Ottawa
 iP 12 55 59 d
Resolute
 iP 12 53 12
Schefferville
 eP 12 55 43 c
 i 12 55 44 d
Seven Falls
 eP 12 56 10
Shawinigan Falls
 iP 12 56 04 d
Victoria
 eP 12 52 12

Shawinigan Falls
 eP 15 54 38

MARCH 12
Kirkland Lake
 eP 16 12 39
Ottawa
 iP 16 13 06 d
 i 16 13 18
Schefferville
 iP 16 12 48 c
Shawinigan Falls
 eP 16 13 09 d
 i 16 13 21

MARCH 12
 U.S.C.G.S.
 14 1/2N, 168E
New Hebrides Islands
 H = 12 46 12
Ottawa
 iP' 16 50 56 c
Shawinigan Falls
 eP' 16 50 59 c
Banff
 iP 16 56 11 (d)

MARCH 12
Ottawa
 eP 12 13 28 c
Schefferville
 eP 12 13 12
Shawinigan Falls
 eP 12 13 32 c

MARCH 12
Ottawa
 eP 14 42 46
Resolute
 eP 14 39 46
 i 14 42 00
Shawinigan Falls
 eP 14 42 43

MARCH 12
Kirkland Lake
 eP 12 24 13

MARCH 12
Resolute
 e(P) 15 27 58

MARCH 12
Ottawa
 iP 12 37 19 d
Shawinigan Falls
 eP 12 37 23 d

MARCH 12
Schefferville
 eP 15 40 26 c

MARCH 12
 U.S.C.G.S.
 53N, 168 1/2W
Fox Islands,
Aleutian Islands
 H = 12 46 12
Banff
 eP 12 52 42

MARCH 12
Schefferville
 eP 15 50 25
Shawinigan Falls
 eP 15 50 54

MARCH 12
 U.S.C.G.S.
 57 1/2N, 170W
Andreanof Islands,
Aleutian Islands
 H = 17 00 21
Banff
 eP 17 07 29
Kirkland Lake
 eP 17 10 11
Ottawa
 eP 17 10 38 c
 i 17 10 52
Resolute
 eP 17 07 47
Schefferville
 eP 17 10 21 d
 i 17 10 33 c
Shawinigan Falls
 eP 17 10 42 d

MARCH 12
Schefferville
 eP 15 54 15

DOMINION OBSERVATORIES

MARCH 12
 U.S.C.G.S.
 51N, 178W
 Andreanof Islands,
 Aleutian Islands
 H = 18 25 18
 Banff
 eP 18 32 39
 Horseshoe Bay
 eP 18 32 09
 Victoria
 iP 18 32 11.5 d

MARCH 12
 Banff
 iP 19 23 16 d
 Horseshoe Bay
 iP 19 22 49 d
 Shawinigan Falls
 eP 20 02 41

MARCH 12
 U.S.C.G.S.
 54N, 165W
 Near Unimak Island
 H = 20 00 30
 Banff
 eP 20 06 40 (d)
 Halifax
 eP 20 10 47
 Horseshoe Bay
 eP 20 06 07
 Kirkland Lake
 eP 20 09 34 c
 Ottawa
 iP 20 10 02 c
 Resolute
 iP 20 07 16 c
 Schefferville
 eP 20 10 48
 Shawinigan Falls
 iP 20 10 07 c
 Victoria
 iP 20 06 09.8 d

MARCH 12
 U.S.C.G.S.
 54N, 165W
 Unimak Island,
 aftershock
 H = 20 07 31
 Shawinigan Falls
 eP 20 17 08

MARCH 12
 Shawinigan Falls
 eP 20 29 09

MARCH 12
 U.S.C.G.S.
 1 1/2S, 79 1/2W
 Ecuador
 H = 21 23 04
 h = about 150 km

Banff
 eP 21 33 04
 Halifax
 eP 21 31 35
 Horseshoe Bay
 eP 21 33 18
 Kirkland Lake
 eP 21 31 42 (c)
 Ottawa
 iP 21 31 24 d
 PP 21 31 44
 P_cP 21 32 32
 PP 21 33 17
 PPP 21 34 14
 Resolute
 iP 21 34 42 c
 Schefferville
 eP 21 32 40
 Seven Falls
 eP 21 31 40 ?
 Shawinigan Falls
 eP 21 31 35 d
 Victoria
 eP 21 33 23

MARCH 12
 Schefferville
 eP 22 01 51 c

MARCH 12
 Banff
 eP 22 34 19 c
 Ottawa
 iP 22 37 30 c
 Schefferville
 eP 22 37 13
 e 22 38 08
 Shawinigan Falls
 eP 22 37 34 d

MARCH 12
 U.S.C.G.S.
 52N, 174W
 Andreanof Islands,
 Aleutian Islands
 H = 23 45 25
 Banff
 iP 23 52 23 d
 Halifax
 iP 23 56 12 c
 Kirkland Lake
 eP 23 55 08 c
 Ottawa
 iP 23 55 36 d
 Resolute
 iP 23 52 46 c
 iPPP 23 55 14
 Schefferville
 eP 23 55 18
 Seven Falls
 eP 23 55 43 ?
 S 24 03 59 ?
 Shawinigan Falls
 iP 23 55 40 d

MARCH 13
 Kirkland Lake
 eP 01 27 23
 e 01 27 52
 Ottawa
 eP 01 27 04 d
 e 01 27 34
 Schefferville
 eP 01 27 58 d
 Seven Falls
 eP 01 27 16
 e 01 27 46

SEISMOLOGICAL BULLETIN - 1957

Shawinigan Falls
 iP 01 27 09 c
 i 01 27 39

MARCH 13
 U.S.C.G.S.

52N, 171 1/2W
 Andreanof Islands,
 Aleutian Islands
 H = 02 48 20

Banff
 iP 02 55 08 d
 e 02 55 19
 iP_cP 02 57 45 c

Halifax
 iP 02 59 07 c

Hamilton
 eP 02 58 33
 S 02 06 21

Horseshoe Bay
 eP 02 54 35
 e 02 57 34

Kirkland Lake
 eP 02 57 54 d
 eS 03 05 34

Ottawa
 eP 02 58 23 d
 S 03 06 24

Resolute
 eP 02 55 35 c
 iP 02 55 35.5 d
 eS 03 01 19
 e 03 03 39
 eL 03 11 33

Schefferville
 eP 02 58 07
 i 02 58 08 d

Seven Falls
 eP 02 58 31 ?
 S 03 06 44 ?

Shawinigan Falls
 eP 02 58 27 d
 P_cP 02 59 24

Victoria
 eP 02 54 37
 iP_cP 02 57 35 c
 eL 03 02.6

MARCH 13
 Shawinigan Falls
 eP 03 17 16

MARCH 13
 U.S.C.G.S.

52N, 175W
 Andreanof Islands,
 Aleutian Islands
 H = 03 32 58

Banff
 iP 03 40 02.8 c
 Halifax
 eP 03 43 53

Horseshoe Bay
 eP 03 39 31 c?

Kirkland Lake
 eP 03 42 55

Ottawa
 eP 03 43 13 c
 i 03 43 27

Resolute
 eP 03 40 22

Schefferville
 eP 03 42 56

Seven Falls
 eP 03 43 20 ?

Shawinigan Falls
 eP 03 43 16

Victoria
 iP 03 39 33.1 c
 e 03 39 45

MARCH 13
 Schefferville
 iP 05 03 00.5 c

MARCH 13
 U.S.C.G.S.

52N, 178W
 Andreanof Islands,
 Aleutian Islands
 H = 07 21 54

Banff
 eP 07 29 14

Horseshoe Bay
 eP 07 28 41

Resolute
 eP 07 29 24

Victoria
 eP 07 28 46

MARCH 13
 Kirkland Lake

eP 08 59 57
 Ottawa

iP 09 00 21 d
 Schefferville

eP 09 00 07.5
 Shawinigan Falls

eP 09 00 27 d

MARCH 13
 U.S.C.G.S.

52 1/2N, 170W
 Fox Islands,
 Aleutian Islands
 H = 09 09 34

Banff
 eP 09 16 15

eP_cP 09 18 57
 Halifax

eP 09 20 14 d?
 i 09 20 15 d

Horseshoe Bay
 e 09 15 40

i 09 18 46 d

Kirkland Lake
 eP 09 19 03 c

Ottawa
 eP 09 19 31 c

Resolute
 eP 09 16 43
 iS 09 22 50

Schefferville
 eP 09 19 16 c

i 09 19 16.5 d
 Shawinigan Falls

iP 09 19 34 c

Victoria
 i 09 18 48.3 d

DOMINION OBSERVATORIES

MARCH 13
U.S.C.G.S.
Near west coast of
North Island, New
Zealand

H = 09 11 15
Kirkland Lake
eP' 09 29 57
Ottawa
eP' 09 30 00
PP 09 31 12
e 09 32 50
Resolute
eP 11 45 23
iS 11 51 17
Shawinigan Falls
eP' 09 30 04
e 09 32 57

MARCH 13

Ottawa
iP 10 34 27 c
e 10 38 54
Shawinigan Falls
eP 10 34 32
e 10 38 59

MARCH 13

U.S.C.G.S.
51N, 177W
Andreanof Islands,
Aleutian Islands
H = 11 37 49
Banff
iP 11 45 08 d
Horseshoe Bay
iP 11 44 35 d
Kirkland Lake
eP 11 47 48
Ottawa
eP 11 48 15 c
Resolute
eP 12 05 17
Schefferville
eP 11 24 02 d?
Shawinigan Falls
eP 11 48 18 c

Victoria
iP 11 44 39.0 d?

MARCH 13

U.S.C.G.S.
52N, 173W
Andreanof Islands,
Aleutian Islands
H = 11 57 58
Banff
iP 12 04 53 c
Kirkland Lake
eP 12 07 45
Ottawa
eP 12 08 06 d
Schefferville
eP 12 07 51
Shawinigan Falls
eP 12 08 10 d

MARCH 13

U.S.C.G.S.
51 1/2N, 177W
Andreanof Islands,
Aleutian Islands
H = 12 42 35
Banff
iP 12 49 50 c?
Kirkland Lake
eP 12 52 30
Ottawa
eP 12 52 58
Resolute
eP 12 50 07
Schefferville
eP 12 52 40.5
Shawinigan Falls
eP 12 53 01 c

MARCH 13

Resolute
eP 13 07 19
Schefferville
eP 13 09 52 c?
Shawinigan Falls
eP 13 10 09

MARCH 13
Resolute
eP 14 05 30

MARCH 13
Schefferville
eP 15 13 07 c?

MARCH 13
U.S.C.G.S.
51 1/2N, 179W
Andreanof Islands
H = 15 42 05
Mag. = 6 - 3/4
Alberni
iP 15 48 54
Banff
iP 15 49 30 c
Halifax
iP 15 53 14 d
eL 16 23.0

Hamilton
eP 15 52 36
S 16 00 57
S₀S 16 02 25
i 16 02 41
SS 16 06 01
Horseshoe Bay
iP 15 48 57.8 c
e 15 51 31
e 15 54 28
Kirkland Lake
eP 15 52 08 d
eS 16 00 09
Ottawa
eP 15 52 34 d
S 16 01 00
PS 16 01 32
S₀S 16 02 25
e 16 02 40
Resolute
iP 15 49 41 d
iP₀P 15 51 21
iS 15 55 31
eL 15 58 23
Saskatoon
iP 15 51 48
iS 15 59 42

SEISMOLOGICAL BULLETIN - 1957

Schefferville

eP 15 52 16 d
 i 15 52 16.5 c
 iP_cP 15 52 56
 ePP 15 54 19
 e 15 56 59

Seven Falls

eP 15 52 41 ?
 S 16 01 14 ?
 PS 16 02 50 ?
 S_cS 16 02 28 ?
 SS 16 05 05 ?
 G 16 08 29 ?

Shawinigan Falls

iP 15 52 37 d
 e 15 53 44
 PP 15 54 56
 PPP 15 56 37

Victoria

iP 15 49 02.9 c
 iP_cP 15 51 34.1 c
 iS 15 54 34
 L 15 56 58

MARCH 13

Kirkland Lake

eP 16 21 28

Ottawa

eP 16 21 23

Shawinigan Falls

eP 16 21 04

MARCH 13

U.S.C.G.S.

51N, 175W

Andreanof Islands,

Aleutian Islands

H = 17 43 40

Kirkland Lake

eP 17 53 31

Ottawa

eP 17 54 00 d

Shawinigan Falls

eP 17 54 03

MARCH 13

Ottawa

iP_n 18 25 47
 i 18 25 49
 S_n 18 26 05
 L 18 26 52

d = 155 km

MARCH 13

U.S.C.G.S.

52 1/2N, 168W

Fox Islands, Aleutian
 Islands

H = 18 56 33

Schefferville

eP 19 06 06

Shawinigan Falls

eP 19 06 25

MARCH 13

Ottawa

iP 19 46 01 d

Shawinigan Falls

iP 19 46 04

MARCH 13

U.S.C.G.S.

54N, 166W

Fox Islands, Aleutian
 Islands

H = 19 59 23

Banff

iP 20 05 36.6 c

Halifax

eP 20 09 41 c?

Hamilton

iP 20 08 55

Horseshoe Bay

eP 20 05 02

Kirkland Lake

eP 20 08 27 c

Ottawa

iP 20 08 57 c

Resolute

iP 20 06 13 c

ePP 20 07 26

eL 20 14 06

Schefferville

eP 20 08 43
 i 20 09 15.5
 i 20 09 21.5
 i 20 13 22.5

Seven Falls

eP 20 09 06 ?
 S 20 16 56 ?
 PS 20 17 16 ?
 SS 20 21 27 ?

Shawinigan Falls

iP 20 09 01 c

Victoria

eP 20 65 05

MARCH 13

Horseshoe Bay

eP 21 04 49.3
 iS 21 05 14.8

Victoria

eP 21 04 41.9
 eS 21 05 00.4

Local shock

MARCH 13

Schefferville

eP 22 17 46

MARCH 13

Alberni

eP 23 08 32.0
 eS 23 08 48.8

Horseshoe Bay

eP 23 08 26

Victoria

eP 23 08 12.8
 iS 23 08 17.9

Local shock

MARCH 13

Alberni

iP 23 16 57.4
 e 23 17 14.4

Horseshoe Bay

iP 23 16 52.0 d
 eS 23 17 07

DOMINION OBSERVATORIES

Victoria
 iP 23 16 39.1
 iS 23 16 43.3
 Local shock

MARCH 14

Kirkland Lake
 eP 00 24 12
 Ottawa
 eP 00 24 42
 Shawinigan Falls
 eP 00 24 46 d

MARCH 14

Kirkland Lake
 eP 00 37 01

MARCH 14

U.S.C.G.S.
 51N, 178W
 Andreanof Islands,
 Aleutian Islands
 H = 00 35 38
 Kirkland Lake
 eP 00 45 33

MARCH 14

U.S.C.G.S.
 52 1/2N, 169W
 Fox Islands, Aleutian
 Islands
 H = 01 52 16
 Banff
 eP 01 58 51
 Kirkland Lake
 eP 02 01 39 d
 Ottawa
 eP 02 02 08
 Resolute
 eS_CS 02 09 24
 eL 02 15 25
 Schefferville
 eP 02 01 53.5
 i 02 02 07.5
 Shawinigan Falls
 eP 02 03 13 d

MARCH 14

Ottawa
 iP 02 19 34 d
 Shawinigan Falls
 eP 02 19 37

MARCH 14

U.S.C.G.S.
 53 1/2N, 163 1/2W
 Off south coast of
 Unimak Island
 H = 02 46 55
 Halifax
 eP 02 57 10
 Horseshoe Bay
 iP 02 52 23
 Kirkland Lake
 eP 02 55 53
 Ottawa
 eP 02 56 23 d
 Resolute
 eL 02 08 45
 Schefferville
 iP 02 56 10.5 c
 Seven Falls
 eP 02 56 35 ?
 Shawinigan Falls
 eP 02 56 28

MARCH 14

Kirkland Lake
 eP 08 25 03 c
 Ottawa
 eP 08 25 11 c

MARCH 14

Resolute
 e 08 49 48

MARCH 14

U.S.C.G.S.
 Fox Islands, Aleutian
 Islands
 H = 10 34 33
 Halifax
 eP 10 45 11 c

Kirkland Lake

eP 10 43 59
 Ottawa
 iP 10 44 27 d
 Shawinigan Falls
 eP 10 44 32
 Alberni
 iP 11 16 23.4
 iS 11 16 45.3
 Horseshoe Bay
 iP 11 16 07.2 d
 iS 11 16 18.7
 Victoria
 iP 11 16 06.5
 iS 11 16 15.8
 Local shock

MARCH 14

U.S.C.G.S.
 53N, 166 1/2W
 Fox Islands, Aleutian
 Islands
 H = 12 29 32
 Ottawa
 eP 12 39 09
 Shawinigan Falls
 eP 12 39 13 d

MARCH 14

U.S.C.G.S.
 51 1/2N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 14 47 45
 Mag. = 7 - 1/2
 Alberni
 eP 14 54 22
 Banff
 iP 14 55 01 c
 Halifax
 e(P) 14 58 47.5 c
 iP 14 58 48 d
 Lg 15 24 52
 Hamilton
 iP 14 58 06 c
 S 15 06 26
 PS 15 06 49
 PPS 15 07 19
 S_CS 15 07 56
 G 15 14 45

SEISMOLOGICAL BULLETIN - 1957

Horseshoe Bay

iP 14 54 27 c
iS 14 59 53

Kirkland Lake

eP 14 57 40 c
eS 15 05 40

Ottawa

eP 14 58 07 c
S 15 06 32
e 15 09 00
SS 15 11 20
G 15 15 00

Resolute

iP 14 55 15

Saskatoon

iP 14 55 38
S 15 01 54

Schefferville

eP 14 57 49 d
i 14 57 50 c

Seven Falls

eP 14 58 15
P_cP 14 59 07
e 14 59 52
PPP 15 02 06
S 15 06 36
PS 15 07 05
S_cS 15 07 52
G 15 14 07

Shawinigan Falls

eP 14 58 10 c
P_cP 14 58 59
S 15 06 34

Victoria

eP 14 54 31
S 14 59 58

MARCH 14

Halifax

eP 15 04 25

MARCH 14

Banff

e 15 12 24 c

Halifax

eP 15 16 11
e 15 16 20

Horseshoe Bay

iP 15 12 50 c

Ottawa

eP 15 15 30 d

Schefferville

eP 15 15 11 d

i 15 15 12 c

Shawinigan Falls

iP 15 15 34 d

MARCH 14

Ottawa

eP 15 27 15

Shawinigan Falls

eP 15 27 15

MARCH 14

Banff

eP 15 29 33

MARCH 14

Schefferville

eP 15 32 21 c

MARCH 14

Horseshoe Bay

iP 15 32 05.4

iS 15 32 32.1

Victoria

iP 15 31 56.9

iS 15 32 16.1

MARCH 14

U.S.C.G.S.

51 1/2N, 177 1/2W

Andreanof Islands,

Aleutian Islands

H = 15 51 00

Banff

eP 15 58 09

Halifax

eP 16 02 06

e 16 02 17

Horseshoe Bay

iP 15 57 45 c

Kirkland Lake

eP 16 00 59

Ottawa

eP 16 01 25 d

Schefferville

eP 16 01 06.5 c

Seven Falls

eP 16 01 36 ?

Shawinigan Falls

iP 16 01 29 d

Victoria

iP 15 57 50.4 c

MARCH 14

Schefferville

eP 16 11 44

MARCH 14

U.S.C.G.S.

51N 178W

Andreanof Islands,

Aleutian Islands

H = 17 06 21

Banff

eP 17 13 45

Horseshoe Bay

eP 17 13 11

Kirkland Lake

eP 17 16 29

Ottawa

eP 17 16 52

Resolute

eP 17 13 57

eS 17 20 03

Schefferville

eP 17 16 41

Shawinigan Falls

eP 17 16 53

Victoria

eP 17 13 15

MARCH 14

Resolute

eP 17 56 22

Schefferville

eP 17 58 52.5

DOMINION OBSERVATORIES

MARCH 14
Halifax
eP 20 26 17

MARCH 14
Ottawa
ip 21 06 55
S_n 21 07 13
L 21 07 20
d = 155 km

MARCH 14
Kirkland Lake
iP 21 32 31

MARCH 14
U.S.C.G.S.
51 1/2N, 176W
Andreanof Islands,
Aleutian Islands
H = 22 18 23
Halifax
eP 22 29 22
Kirkland Lake
eP 22 28 26
Ottawa
eP 22 28 40 d
Resolute
eP 22 25 48
Schefferville
eP 22 28 21.5
Shawinigan Falls
eP 22 28 44

MARCH 14
Ottawa
eP 23 29 38
Schefferville
eP 23 29 19.5

MARCH 15
U.S.C.G.S.
53N, 167W
Fox Islands, Aleutian
Islands
H = 02 52 08
Mag. = 6 3/4

Banff
eP 02 58 32 d
Halifax
eP 03 02 38 d
Hamilton

iP 03 01 47 d
S 03 09 33
S_cS 03 11 33
SS 03 15 14
L 03 19 03

Horseshoe Bay
eP 02 57 57
eP_cP 03 01 15
eS 03 02 37

Kirkland Lake
eP 03 01 26 d?
eS 03 08 49

Ottawa
eP 03 01 50
S 03 09 40
S_cS 03 11 40
e 03 13 40

Resolute
iP 02 59 07 c
iP_cP 03 01 38
eL 03 13.6

Saskatoon
eP 02 59 12
eS 03 04 54

Schefferville
eP 03 01 37
iPP 03 02 49

Seven Falls
eP 03 02 02 ?
PP 03 04 14 ?
S 03 09 57 ?
S_cS 03 11 53 ?
SS 03 14 13 ?
SSS 03 16 21 ?
L 03 18 41 ?

Shawinigan Falls
eP 03 01 55
PP 03 03 59
Victoria
eP 02 58 01 d?
iS 03 02 44

MARCH 15
U.S.C.G.S.
51N, 176W
Andreanof Islands,
Aleutian Islands
H = 04 12 56

Banff
eP 04 20 09
Halifax
eP 04 23 57 d?
iP 04 23 59 c

Hamilton
eP 04 23 14
Horseshoe Bay
eP 04 19 36

Kirkland Lake
eP 04 22 52 d?
Ottawa

iP 04 23 17 c
Schefferville
eP 04 22 59

Seven Falls
eP 04 23 24 ?
Shawinigan Falls

eP 04 23 20 c
Victoria
eP 04 19 40

MARCH 15
Ottawa
eP 05 18 23
Schefferville
eP 05 18 02 c?
Shawinigan Falls
eP 05 18 23 d

MARCH 15
Ottawa
iP 09 38 54 d
Shawinigan Falls
eP 09 38 57 d

MARCH 15
Banff
eP 10 35 35

SEISMOLOGICAL BULLETIN - 1957

MARCH 15
Schefferville
eP 10 40 13 c?
e 10 40 24 c

MARCH 15
Schefferville
eP 11 15 07 c
Shawinigan Falls
eP 11 15 25

MARCH 15
U.S.C.G.S.
51N, 173W
Andreanof Islands,
Aleutian Islands
H = 11 57 28
Banff
iP 12 04 25 d
eP_cP 12 06 54
Halifax
iP 12 08 22 d
Kirkland Lake
eP 12 07 14
Ottawa
iP 12 07 38 c
Schefferville
iP 12 07 25 c
i 12 07 34
Shawinigan Falls
eP 12 07 43

MARCH 15
Schefferville
iP 12 45 49 c
e 12 46 29

MARCH 15
Kirkland Lake
eP 16 39 47
Ottawa
eP 16 40 13
Schefferville
eP 16 39 56 c
Shawinigan Falls
eP 16 40 16
i 16 40 35

MARCH 15
U.S.C.G.S.
53N, 167W
Fox Islands, Aleutian
Islands
H = 16 38 02
Ottawa
eP 16 47 41
Schefferville
eP 16 47 28
Shawinigan Falls
eP 16 47 45

MARCH 15
Shawinigan Falls
eP 18 05 01
i 18 05 40
i 18 06 00
e 18 06 26

MARCH 15
Ottawa
iP 18 43 41 d
Shawinigan Falls
eP 18 43 46

MARCH 15
Schefferville
eP 20 26 53 c

MARCH 15
U.S.C.G.S.
51 1/2N, 177W
Andreanof Islands,
Aleutian Islands
H = 22 13 25
Banff
eP 22 20 43
Kirkland Lake
eP 22 23 22
Ottawa
iP 22 23 50 d
Resolute
eP 22 20 58

Schefferville
eP 22 23 32 c
i 22 23 44.5 d
Shawinigan Falls
eP 22 23 53
Victoria
eP 22 20 15.6

MARCH 16
Alberni
iP 00 37 14.6
Banff
eP 00 38 41.3
e 00 38 52
e 00 40 49
Horseshoe Bay
iP 00 37 18.6 c
Victoria
iP 00 37 29.1
i 00 38 01
i 00 38 11

MARCH 16
Resolute
e 00 51 37

MARCH 16
U.S.C.G.S.
35N, 53E
Northern Iran
H = 00 43 41
Banff
eP 00 57 01.9
Halifax
iP 00 56 07 d
Kirkland Lake
eP 00 56 32
Ottawa
iP 00 56 33 d
Resolute
iP 00 54 49 c
Schefferville
eP 00 55 36 c
Seven Falls
eP 00 56 16 ?
Shawinigan Falls
eP 00 56 23 d

DOMINION OBSERVATORIES

MARCH 16

Horseshoe Bay
eP 01 29 46
Victoria
eP 01 29 49.6
e 01 30 39.4
Schefferville
eP 01 35 52 c

Hamilton

eP 02 44 41
i 02 45 05
P_CP 02 45 28
PP 02 47 04
S 02 53 08
PS 02 53 34
pPS 02 53 38
e 02 54 23
S_CS 02 54 39
SS 02 57 47
G 03 01 25
L 03 03 30

Shawinigan Falls

iP 02 44 44 d
S 02 53 23
Victoria
eP 02 41 07
i 02 41 10
iP_CP 02 43 46
iS 02 46 46
iLg 02 49 33

MARCH 16

U.S.C.G.S.
51 1/2N, 175W
Andreanof Islands,
Aleutian Islands
H = 02 13 23
Banff
iP 02 17 50.6
eP 02 20 29
Halifax
eP 02 24 19
Kirkland Lake
eP 02 23 13 d
Ottawa
eP 02 23 39 c
i 02 23 53
Resolute
eP 02 20 38
ePPP 02 22 23
Schefferville
eP 02 23 21
i 02 23 35 d
Shawinigan Falls
eP 02 23 43
Victoria
iP 02 17 51.5 c

Horseshoe Bay

eP 02 41 05
eP_CP 02 43 41
iS 02 46 42
Kirkland Lake
eP 02 44 14 d?

MARCH 16

Ottawa
eP 03 13 37
Shawinigan Falls
eP 03 13 43

eS 02 52 19
Ottawa
eP 02 44 39 c
PPP 02 48 37
S 02 53 09
PS 02 53 48
L 03 00 20

MARCH 16

Schefferville
iP 03 20 05 d
i 03 20 18

Resolute

eP 02 41 45 c
i 02 41 46 d
e 02 46 05
iS 02 47 40
eL 02 51 15

MARCH 16

U.S.C.G.S.
52N, 174W
Andreanof Islands,
Aleutian Islands
H = 03 33 57
Banff
eP 03 40 57
eP_CP 03 43 39
Halifax
eP 03 44 47 d
Hamilton
e(P) 03 44 19
S 03 53 04

Saskatoon

eP 02 41 05
eP_CP 02 43 41
iS 02 46 42

Schefferville

iP 02 44 20 c
e 02 45 03

Horseshoe Bay
eP 03 40 25

MARCH 16

U.S.C.G.S.
52N, 179W
Andreanof Islands
Aleutian Islands
H = 02 34 12
Mag. = 6 3/4
Banff
eP 02 41 35
Halifax
eP 02 45 18
eL 03 12.8

Seven Falls

eP 02 44 51 ?
PP 02 47 23 ?
PPP 02 48 46 ?
S 02 53 22 ?
PS 02 54 05 ?
S_CS 02 54 42 ?
SS 02 57 29 ?
SSS 02 59 55 ?

Ottawa
eP 03 44 08
Resolute
eP 03 41 18
Schefferville
iP 03 43 50 d
i 03 44 37
Seven Falls
eP 03 44 22 ?

SEISMOLOGICAL BULLETIN - 1957

Shawinigan Falls
 iP 03 44 13 d
 Victoria
 eP 03 40 28
 P_cP 03 43 32

Schefferville
 eP 09 40 38 ? c
 Shawinigan Falls
 eP 09 41 01 d
 Victoria
 iP 09 37 21.6 d

Halifax
 eP 15 41 09
 Resolute
 e(P) 15 37 37
 Schefferville
 eP 15 40 10 c

MARCH 16

Horseshoe Bay
 eP 06 14 30
 Victoria
 iP 06 14 32.8

MARCH 16

Banff
 eP 10 31 33
 Victoria
 iP 10 31 14.3 d?

MARCH 16

Horseshoe Bay
 eP 20 42 33
 Schefferville
 eP 20 45 45 c
 iP 20 45 46 d
 Shawinigan Falls
 eP 20 46 10 d
 Victoria
 iP 20 42 35 c
 Schefferville
 eP 23 46 35
 e 23 46 48

MARCH 16

Victoria
 eP 07 19 17

MARCH 16

Halifax
 eP 12 51 49
 Kirkland Lake
 eP 12 52 06
 Ottawa
 eP 12 51 38

MARCH 16

Victoria
 iP 07 37 56.1

Resolute
 eP 12 55 46
 Schefferville
 iP 12 53 06 d
 Shawinigan Falls
 eP 12 51 49

MARCH 16

Ottawa
 eP 08 52 50
 Shawinigan Falls
 eP 08 52 54 c

MARCH 16

U.S.C.G.S.
 27N, 27 1/2E
 Ryukyu Islands
 H = 23 55 06
 Resolute
 iP 24 06 52 c

MARCH 16

U.S.C.G.S.
 51N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 09 30 36
 Banff
 eP 09 37 51
 Halifax
 e(P) 09 42 36 d?
 i(P) 09 42 38 c
 Horseshoe Bay
 iP 09 37 19 d
 Ottawa
 iP 09 40 57
 Resolute
 eP 09 38 06

MARCH 16

Banff
 eP 14 18 18
 Halifax
 eP 14 22 00
 Horseshoe Bay
 eP 14 17 43
 Resolute
 eP 14 18 29
 Schefferville
 eP 14 21 02 d
 Shawinigan Falls
 eP 14 21 26 d
 Victoria
 iP 14 17 50.8

MARCH 17

Banff
 iP 00 42 23 c

MARCH 17

U.S.C.G.S.
 51N, 180
 Andreanof Islands,
 Aleutian Islands
 H = 01 46 56
 Banff
 eP 01 54 28
 Resolute
 eP 01 54 38
 Shawinigan Falls
 eP 01 57 37
 Victoria
 eP 01 54 01

MARCH 16

Banff
 iP 15 37 21 d

DOMINION OBSERVATORIES

MARCH 17
 U.S.C.G.S.
 51N, 178 1/2W
 Andeanof Islands,
 Aleutian Islands
 H = 02 48 36
 Banff
 eP 02 56 01
 Halifax
 eP 02 59 47
 i 03 00 00
 Kirkland Lake
 eP 02 58 41
 Ottawa
 iP 02 59 08 c
 i 02 59 20
 Resolute
 eP 02 56 15
 Schefferville
 eP 02 58 49
 Shawinigan Falls
 eP 02 59 11
 i 02 59 24
 Victoria
 eP 02 55 32

MARCH 17
 U.S.C.G.S.
 52 1/2N, 169W
 Fox Islands,
 Aleutian Islands
 H = 07 04 40
 Banff
 eP 07 11 11
 Horseshoe Bay
 eP 07 10 39
 Kirkland Lake
 eP 07 14 03
 Ottawa
 iP 07 14 31 c
 Resolute
 eP 07 11 44 d
 iP 07 11 44.5 c
 Shawinigan Falls
 eP 07 14 35 c
 Victoria
 eP 07 10 41

MARCH 17
 U.S.C.G.S.
 51N, 179W
 Andeanof Islands,
 Aleutian Islands
 H = 07 53 51
 Alberni
 eP 08 00 44
 Banff
 eP 08 01 17
 Halifax
 eP 08 05 02
 Hamilton
 eP 08 04 21
 S 08 12 53
 S_CS 08 14 15
 Horseshoe Bay
 eP 08 00 49
 iS 08 06 25
 Kirkland Lake
 eP 08 03 57
 Ottawa
 eP 08 04 23
 S_CS 08 14 14
 Resolute
 eP 08 01 28 d
 iP 08 01 29 c
 eS 08 08 22
 eL 08 10 40
 Saskatoon
 eS 08 11 53
 Seven Falls
 eP 08 04 31
 Shawinigan Falls
 eP 08 04 26
 e 08 07 34
 Victoria
 eP 08 00 51
 iS 08 06 29
 eL 08 09.3

MARCH 17
 Victoria
 iP 09 57 25.5

MARCH 17
 U.S.C.G.S.
 53 1/2N, 167W
 Fox Islands, Aleutian
 Islands
 H = 11 30 33
 Banff
 eP 11 36 54 d?
 Kirkland Lake
 eP 11 39 46
 Ottawa
 iP 11 40 13 d
 Resolute
 eP 11 37 25
 Seven Falls
 eP 11 40 21 ?
 Shawinigan Falls
 eP 11 40 18

MARCH 17
 U.S.C.G.S.
 53N, 167 1/2W
 Fox Islands, Aleutian
 Islands
 H = 15 11 42
 Banff
 eP 15 18 04.7
 Kirkland Lake
 eP 15 20 57
 Ottawa
 iP 15 21 27 c
 Resolute
 iP 15 18 40 d
 eL 15 33 32
 Seven Falls
 S 15 29 32 ?
 Shawinigan Falls
 eP 15 21 32
 Victoria
 eP 15 17 35
 eP_CP 15 20 50

MARCH 17
 U.S.C.G.S.
 52 1/2N, 166W
 Fox Islands, Aleutian
 Islands
 H = 16 17 13

SEISMOLOGICAL BULLETIN - 1957

Banff
 iP 16 22 32 d
 P_CP 16 26 25
Halifax
 eP 16 27 39
Kirkland Lake
 eP 16 26 25
Ottawa
 iP 16 26 54 d
Resolute
 iP 16 24 14 d
 eL 16 33 33
Shawinigan Falls
 eP 16 26 59 d
Victoria
 iP 16 23 00.3 d
 P_CP 16 26 20

MARCH 17

Shawinigan Falls
 eP 17 09 39
Victoria
 eP 17 06 01
 P_CP 17 08 32

MARCH 17

Resolute
 e 17 28 14

MARCH 17

U.S.C.G.S.
 54N, 166W
Fox Islands,
Aleutian Islands
 H = 22 44 44
 Mag. = 6 1/2

Banff

iP 22 50 56 c
Halifax
 iP 22 53 02 d
 P_CP 22 55 24 d
Horseshoe Bay
 eP 22 50 22
 e 22 53 48
 eS 22 54 54
 e 23 01 17

Kirkland Lake
 eP 22 53 48 c
 eS 24 01 01
Ottawa
 iP 22 54 17 c
 P_CP 22 55 05
 PP 22 56 16
 S 23 01 57
 PS 23 02 20
 S_CS 23 04 04
 L 23 05 30

Resolute

iP 22 51 11 c
 iPPP 22 52 51
 eS 22 56 56
 S_CS 23 01 52

Saskatoon

iP 22 51 05
 iS 22 57 03

Seven Falls

eP 22 54 27 ?
 P_CP 22 55 05 ?
 PP 22 56 28 ?
 PPP 22 57 51 ?
 e 22 59 23 ?
 S 23 02 13 ?
 PS 23 02 35 ?
 S_CS 23 04 05 ?
 SS 23 06 16 ?

Shawinigan Falls

eP 22 54 22 c
 PP 22 56 50
 S 23 02 19

Victoria

iP 22 50 56 c
 P_CP 22 53 49
 eS 22 54 54
 iS 22 54 58

MARCH 17

U.S.C.G.S.
 51N, 179 1/2W
Andreanof Islands,
Aleutian Islands
 H = 00 12 10
Banff
 eP 00 19 39

Horseshoe Bay
 eP 00 19 07
Kirkland Lake
 eP 00 22 17
Ottawa
 eP 00 22 43
Shawinigan Falls
 eP 00 22 46
Victoria
 iP 00 19 12 c

MARCH 18

Victoria
 eP 12 01 45.3

MARCH 18

U.S.C.G.S.
 52 1/2N, 171W
Fox Islands, Aleutian
Islands
 H = 02 24 39
Banff
 eP 02 31 18
Halifax
 iP 02 36 09 c
Horseshoe Bay
 eP 02 30 51
Kirkland Lake
 eP 02 34 10
Ottawa
 eP 02 34 38 d
Resolute
 eL 02 41 07
Shawinigan Falls
 eP 02 34 42 d
Victoria
 eP 02 30 52

MARCH 18

U.S.C.G.S.
 52 1/2N, 171W
Fox Islands, Aleutian
Islands
 H = 02 25 56
Banff
 eP 02 32 10.6

DOMINION OBSERVATORIES

Horseshoe Bay	MARCH 18	Victoria
eP 02 31 38	Shawinigan Falls	eP 18 59 58
e 02 35 40	eP 06 51 44	
e 02 38 19		
eS 02 36 37	MARCH 18	MARCH 18
e 02 41 16	Banff	Ottawa
Kirkland Lake	iP 07 57 13.3 d	iP 20 00 42 d
iP 02 34 58	Kirkland Lake	
e(S) 02 42 37	eP 08 00 10	MARCH 18
Ottawa	Ottawa	U.S.C.G.S.
eP 02 35 26 c	eP 08 00 33 c	52N, 180
P _C P 02 36 16	Shawinigan Falls	Andreanof Islands,
S 02 43 29	iP 08 00 37 c	Aleutian Islands
S _C S 02 45 16	Victoria	H = 20 03 47
Seven Falls	iP 07 56 43.0	Horseshoe Bay
eP 02 35 37 ?	eP _C P 07 59 57	eP 20 10 44
S 02 43 43 ?		Kirkland Lake
Shawinigan Falls		eP 20 13 51
iP 02 35 30	MARCH 18	Ottawa
S 02 43 36	Resolute	iP 20 14 18 c
Victoria	e 09 41 48	Schefferville
eP 02 31 41		iP 20 14 16 c
eP _C P 02 34 41	MARCH 18	Shawinigan Falls
iS 02 36 42	Schefferville	eP 20 14 22
eL 02 38.5	iP 14 36 23 c	
MARCH 18		MARCH 18
U.S.C.G.S.		U.S.C.G.S.
51 1/2N, 179W	MARCH 18	52N, 180
Andreanof Islands,	Victoria	Andreanof Islands
Aleutian Islands	iP 14 31 53.0 d	H = 20 03 47
H = 05 08 34		Banff
Banff		eP' 21 26 58 d?
eP 05 16 01	MARCH 18	Halifax
Horseshoe Bay	U.S.C.G.S.	eP' 21 33 29
eP 05 15 29	34N, 119 1/2W	Horseshoe Bay
Kirkland Lake	Near coast of southern	iP 21 27 22 d
eP 05 18 37	California	Ottawa
Ottawa	H = 18 56 24	iP' 21 33 14 d
eP 05 19 11	Mag. = 4 1/2 - 4 3/4	Resolute
Resolute	Banff	eL 04 01 29
eS 05 32 32	eP 19 00 35	Shawinigan Falls
Seven Falls	Horseshoe Bay	eP' 21 33 17
P 05 19 20	eP 19 00 09	Victoria
S 05 27 23	Kirkland Lake	eP 21 27 21
Shawinigan Falls	eP 19 02 57	
eP 05 19 16	Resolute	
Victoria	eL 19 23 47	
iP 05 15 32.6		

SEISMOLOGICAL BULLETIN - 1957

MARCH 19
 U.S.C.G.S.
 52N, 175 1/2W
 Andreanof Islands,
 Aleutian Islands
 H = 03 39 35
 Banff
 iP 03 46 41.2 c
 Halifax
 eP 03 50 32
 Kirkland Lake
 eP 03 49 23
 e 03 50 18
 Ottawa
 iP 03 49 50
 P_CP 03 50 35
 Schefferville
 eP 03 49 29.5 c
 Shawinigan Falls
 eP 03 49 54 c
 P_CP 03 50 36

MARCH 19
 U.S.C.G.S.
 52N, 169W
 Fox Islands,
 Aleutian Islands
 H = 08 12 40
 Banff
 eP 08 20 35
 Horseshoe Bay
 eP 08 20 08 c
 Kirkland Lake
 eP 08 23 28 c
 Ottawa
 eP 08 23 57 d
 Resolute
 eL 08 37 30
 Schefferville
 eP 08 23 47
 ePP 08 24 45
 Shawinigan Falls
 eP 08 24 01 c
 Victoria
 eP 08 20 01

MARCH 19
 U.S.C.G.S.
 51 1/2N, 176 1/2W
 Andreanof Islands,
 Aleutian Islands
 H = 11 28 50
 Banff
 iP 11 36 05.5 c
 Halifax
 eP 11 39 54
 Horseshoe Bay
 iP 11 35 34 d
 eS 11 40 59
 Kirkland Lake
 eP 11 38 46 c
 Ottawa
 eP 11 39 13 c
 P_CP 11 40 07
 Resolute
 eP 11 36 20
 e 11 48 34
 Schefferville
 iP 11 38 53.5 d
 Seven Falls
 eP 11 39 23 ?
 S 11 48 00 ?
 SS 11 52 24 ?
 Shawinigan Falls
 eP 11 39 17 c
 Victoria
 iP 11 35 36.9 c

MARCH 19
 U.S.C.G.S.
 51 1/2N, 175W
 Andreanof Islands,
 Aleutian Islands
 H = 12 50 51
 Mag. = 6 3/4
 Alberni
 eP 12 57 20
 Banff
 eP 12 57 59.9 d?
 Halifax
 eP 13 01 48 d
 iP 13 01 51 c
 Horseshoe Bay
 iP 12 57 26 c
 i 12 57 36
 S 13 02 49

Kirkland Lake
 eP 13 00 42 c?
 eS 13 08 45
Ottawa
 iP 13 01 09 d
 PP 13 03 42
 S 13 09 36
 S_CS 13 11 09
 SS 13 14 13
Resolute
 eP 12 58 24
Saskatoon
 eP 12 58 40
 eS 13 04 55
Schefferville
 eP 13 00 49.5 c
 iP 13 00 50 d
 i 13 01 07
 i 13 05 42
Seven Falls
 eP 13 01 16 ?
 P_CP 13 01 55 ?
 PP 13 03 44 ?
 PPP 13 05 20 ?
 S 13 09 50 ?
 i 13 10 02 ?
 PS 13 10 24 ?
 S_CS 13 11 13 ?
 SS 13 14 24 ?
 G 13 16 43 ?
Shawinigan Falls
 eP 13 01 12 d
 S 13 09 44
Victoria
 iP 12 57 29.8 d
 iS 13 02 56

MARCH 19
 Ottawa
 iP 13 06 01 d
 Shawinigan Falls
 eP 13 06 05

MARCH 19
 Shawinigan Falls
 eP 13 30 58

DOMINION OBSERVATORIES

MARCH 19
 U.S.C.G.S.
 52N, 172 1/2W
 Fox Islands,
 Aleutian Islands
 H = 15 47 24
 Banff
 eP 15 54 17
 Halifax
 eP 15 58 17
 Horseshoe Bay
 eP 15 53 43
 Kirkland Lake
 eP 15 57 02
 Ottawa
 iP 15 57 31 c
 Schefferville
 eP 15 57 13.5
 iP 15 57 14.5 d
 Seven Falls
 eP 15 57 43
 Shawinigan Falls
 eP 15 57 35
 Victoria
 eP 15 53 47

MARCH 19
 Banff
 iP 16 29 14.9 d

MARCH 19
 U.S.C.G.S.
 52 1/2N, 171W
 Fox Islands, Aleutian
 Islands
 H = 17 04 25
 Banff
 eP 17 11 07
 Halifax
 eP 17 15 07
 Kirkland Lake
 eP 17 13 54
 i 17 14 06 d
 Ottawa
 eP 17 14 23
 i 17 14 35

Schefferville
 eP 17 14 06
 Shawinigan Falls
 eP 17 14 27 c

MARCH 19
 Schefferville
 eP 17 55 15.5

MARCH 19
 Kirkland Lake
 eP 23 45 58
 Ottawa
 eP 23 45 44
 Schefferville
 eP 23 34 32 d
 Shawinigan Falls
 eP 23 45 56

MARCH 20
 U.S.C.G.S.
 52N, 173W
 Andreanof Islands,
 Aleutian Islands
 H = 00 00 51
 Banff
 eP 00 07 46
 Halifax
 iP 00 11 42 c

Horseshoe Bay
 eP 00 07 21
 Kirkland Lake
 eP 00 10 32
 Ottawa
 eP 00 11 00
 Resolute
 eP 00 08 10 d
 iP_cP 00 10 40
 eL 00 25 24
 Schefferville
 iP 00 10 41.5 d
 Seven Falls
 eP 00 11 14 ?
 Shawinigan Falls
 iP 00 11 05
 Victoria
 eP 00 07 16

MARCH 20
 Ottawa
 eP 00 29 23
 Schefferville
 eP 00 29 04

MARCH 20
 U.S.C.G.S.
 53N, 169W
 Fox Islands, Aleutian
 Islands
 H = 00 22 25
 Banff
 eP 00 28 55
 Kirkland Lake
 eP 00 31 44 c
 Ottawa
 eP 00 32 13
 Resolute
 iP 00 29 26 c
 eL 00 38 01
 Schefferville
 eP 00 31 57
 Seven Falls
 eP 00 32 22 ?
 Shawinigan Falls
 iP 00 32 18 d
 Victoria
 eP 00 28 25

MARCH 20
 Kirkland Lake
 eP 20 52 05
 Ottawa
 iP 00 52 33 d
 Resolute
 e(P) 00 49 46
 Schefferville
 iP 00 48 46 c
 i 00 50 14
 e 00 51 17
 Shawinigan Falls
 iP 00 52 38 d

SEISMOLOGICAL BULLETIN - 1957

MARCH 20 Ottawa eP 02 53 13 Schefferville eP 02 59 58 c	MARCH 20 U.S.C.G.S. 52N, 172W Andreanof Islands, Aleutian Islands H = 11 01 42 Banff iP 11 08 33 c eP _c P 11 11 09 Halifax eP 11 12 32 Horseshoe Bay eP 11 08 01 Kirkland Lake eP 11 11 20 c Ottawa eP 11 11 47 Resolute eP 11 09 00 iP 11 09 02 c iS 11 15 04 eL 11 26 34 Schefferville iP 11 11 34.5 d Shawinigan Falls eP 11 11 54 c	MARCH 20 Banff eP 20 17 16.8 e(S) 20 18 06.6 Local shock
MARCH 20 U.S.C.G.S. 51 1/2N, 175 1/2W Andreanof Islands, Aleutian Islands H = 03 25 00 Banff eP 03 32 10 Kirkland Lake eP 03 34 51 Ottawa iP 03 35 18 c Resolute eP 03 32 27 eL 03 49 31 Seven Falls eP 03 35 31 Shawinigan Falls eP 03 35 21 c Victoria eP 03 31 40	MARCH 20 U.S.C.G.S. 51 1/2N, 174 1/2W Andreanof Islands, Aleutian Islands H = 20 28 03 Banff eP 20 35 06 Ottawa iP 20 38 18 d Schefferville eP 20 38 01 Shawinigan Falls eP 20 38 21 d	MARCH 21 U.S.C.G.S. 52N, 173W Andreanof Islands, Aleutian Islands H = 04 29 02 Banff eP 04 36 38 Kirkland Lake eP 04 38 46 Ottawa iP 04 39 11 c Resolute eP 04 36 22 e 04 52 29 Shawinigan Falls eP 04 39 17 d
MARCH 20 U.S.C.G.S. 10 1/2N, 127E Near coast of Mindanao, Philippine Islands H = 06 10 27 Resolute iP 06 23 37 d	MARCH 20 Banff eP 18 58 37 Kirkland Lake e 19 01 10 Ottawa eP 19 01 44	MARCH 21 Ottawa iP 08 42 38 d Shawinigan Falls eP 08 42 42 d
MARCH 20 Resolute eP 06 42 06	MARCH 20 Banff eP 19 59 46 Kirkland Lake e 20 02 36 Schefferville eP 20 02 47 d	
MARCH 20 Schefferville iP 10 51 53 c	MARCH 20 Banff eP 20 66 10	

DOMINION OBSERVATORIES

MARCH 21
 U.S.C.G.S.
 14 1/2N, 93W
 Near coast of Chiapas,
 Mexico
 H = 08 44 46
 Banff
 eP 08 52 32 c
 Horseshoe Bay
 iP 08 52 46 c
 Kirkland Lake
 eP 08 52 02
 Ottawa
 eP 08 51 34 d
 PP 08 52 57
 S 08 57 02

Kirkland Lake
 eP 12 41 04 c
 Ottawa
 iP 12 41 33 c
 PP 12 43 41
 Resolute
 eP 12 38 46 c
 eL 12 51 07
 Schefferville
 iP 12 41 08 d
 Seven Falls
 eP 12 41 41
 Shawinigan Falls
 eP 12 41 38
 PP 12 43 46

MARCH 21
 U.S.C.G.S.
 51 1/2N, 177W
 Andreanof Islands,
 Aleutian Islands
 H = 17 39 12
 Horseshoe Bay
 eP 17 45 58
 Ottawa
 eP 17 49 38 c
 Shawinigan Falls
 eP 17 49 42
 Victoria
 eP 17 46 01

Resolute
 iP 08 54 58 d
 eS 09 03 18
 eL 09 21 33

MARCH 21
 Banff
 eP 13 52 28

MARCH 21
 Ottawa
 eP 18 01 24

Schefferville
 eP 08 53 05 d
 Shawinigan Falls
 iP 08 51 52 d
 PP 08 53 17
 Victoria
 iP 08 52 43
 eL 09 10.0

MARCH 21
 Kirkland Lake
 eP 14 22 10

MARCH 21
 Schefferville
 eP 20 49 23

MARCH 21
 Kirkland Lake
 eP 12 14 28
 Ottawa
 iP 12 14 11 d
 Shawinigan Falls
 iP 12 14 24 d

MARCH 21
 U.S.C.G.S.
 51N, 175W
 Andreanof Islands,
 Aleutian Islands
 H = 15 46 16
 Horseshoe Bay
 eP 17 45 58
 Kirkland Lake
 eP 15 56 08 c?
 Ottawa
 iP 15 56 35

MARCH 21
 Horseshoe Bay
 iP 22 36 19.3 c
 iS 22 36 20.5
 Local shock

MARCH 21
 U.S.C.G.S.
 52N, 171W
 Fox Islands,
 Aleutian Islands
 H = 12 31 30
 Banff
 eP 12 38 16 c
 Horseshoe Bay
 eP 12 37 43

Resolute
 eP 17 46 45 c
 eL 17 55 59
 Shawinigan Falls
 iP 15 56 39 c

MARCH 22
 Schefferville
 iP 00 17 43 c

MARCH 22
 Alberni
 iP 01 49 49.1
 iS 01 49 57.3
 Horseshoe Bay
 iP 01 49 42.6 d
 iS 01 49 49.0
 Victoria
 iP 01 49 52.0
 i 01 49 54.5
 iS 01 50 06.7
 Local shock

SEISMOLOGICAL BULLETIN - 1957

MARCH 22
 Alberni
 iP 01 58 13.9
 Horseshoe Bay
 iP 01 58 09.1 d
 iS 01 58 14.5
 Victoria
 iP 01 58 18.2
 iS 01 58 34.9
 Local shock

MARCH 22
 Alberni
 iP 02 23 54.5
 i 02 23 57.0
 Horseshoe Bay
 iP 02 23 49.0
 iS 02 23 54.2
 Victoria
 iP 02 23 57.9
 e 02 24 00.3
 iS 02 24 12.3
 Local shock

MARCH 22
 Schefferville
 iP 02 41 02 d

MARCH 22
 Alberni
 iP 03 43 53.5
 iS 03 44 03.6
 Horseshoe Bay
 eP 03 44 06.7
 e 03 44 32.0
 Victoria
 iP 03 44 12.6
 iS 03 44 41.0
 Local shock
 Schefferville
 eP 03 44 53

MARCH 22
 Banff
 eP 09 43 16 c
 Kirkland Lake
 eP 09 46 03 c
 Ottawa
 iP 09 46 32 c
 Resolute
 eP 09 43 42
 e 10 00 45
 Schefferville
 iP 09 46 13 d
 Seven Falls
 eP 09 46 39
 Shawinigan Falls
 iP 09 46 34

MARCH 22
 Kirkland Lake
 eP 10 44 14
 Resolute
 eP 10 44 18 d

MARCH 22
 Schefferville
 eP 13 24 41

MARCH 22
 U.S.C.G.S.
 54N, 165 1/2W
 Fox Islands,
 Aleutian Islands
 H = 14 33 13
 Alberni
 iP 14 26 43
 Banff
 eP 14 27 18
 Horseshoe Bay
 eP 14 26 47
 iS 14 31 20
 Kirkland Lake
 eP 14 30 11 c
 eS 14 27 31

Ottawa
 iP 14 30 41 c
 PP 14 32 48
 PPP 14 34 10
 S 14 38 16
 PS 14 38 48
 S₀S 14 40 28
 SS 14 42 18
 L 14 47 00

Resolute
 iP 14 27 55 c
 eS 14 33 17
 eL 14 35 57

Saskatoon
 eP 14 27 56
 eS 14 33 30

Schefferville
 eP 14 30 25
 iPP 14 31 36

Seven Falls
 eP 14 30 52
 e 14 31 34
 PP 14 33 00
 PPP 14 34 24
 S 14 38 35
 SS 14 42 33
 SSS 14 42 37
 L 14 47 37

Shawinigan Falls
 iP 14 30 45
 e 14 38 16
 S₀S 14 40 23

Victoria
 iP 14 26 51
 iP_CP 14 30 13
 iS 14 31 18
 e 14 39 00

MARCH 22
 U.S.C.G.S.
 54N, 165 1/2W
 Fox Islands,
 Aleutian Islands
 H = 14 33 13
 Banff
 eP 14 39 24

DOMINION OBSERVATORIES

Kirkland Lake
 eP 14 42 18
 Ottawa
 iP 14 42 47 c
 Schefferville
 iP 14 42 32 d
 Shawinigan Falls
 iP 14 42 51 c

Ottawa
 eP 19 51 18 d
 i 19 52 27
 P_cP 19 53 48
 L 20 02 00
 Resolute
 iP 19 51 52 d
 ePP 19 53 21
 eL 20 05 35
 Saskatoon
 eP 19 48 20
 Schefferville
 eP 19 52 09
 i 19 52 57
 Shawinigan Falls
 iP 19 51 34 c
 i 19 53 02
 P_cP 19 53 48
 Victoria
 eP 19 46 59

MARCH 23
 U.S.C.G.S.
 Near coast of
 Chiapas, Mexico
 H = 03 53 55
 Kirkland Lake
 eP 04 00 46
 Ottawa
 iP 04 00 39 d
 Shawinigan Falls
 iP 04 01 00 d

MARCH 22
 U.S.C.G.S.
 52 1/2N, 171W
 Fox Islands,
 Aleutian Islands
 H = 17 09 51
 Banff
 eP 17 16 34 c
 Halifax
 eP 17 20 33 c
 Horseshoe Bay
 eP 17 16 02
 Kirkland Lake
 eP 17 19 21
 Ottawa
 eP 17 19 50
 Resolute
 iP 17 17 02 d
 iS 17 23 07
 Schefferville
 eP 17 19 35 c
 Shawinigan Falls
 iP 17 19 56 d
 Victoria
 iP 17 16 03 d
 eL 17 24.3

MARCH 22
 Kirkland Lake
 eP 20 43 52

MARCH 23
 Banff
 eP 00 59 00
 Horseshoe Bay
 eP 00 58 36
 Kirkland Lake
 eP 01 01 52
 Ottawa
 eP 01 02 17 d
 Resolute
 eP 00 59 36
 Schefferville
 eP 01 01 58 c
 Shawinigan Falls
 iP 01 02 25 c
 Victoria
 eP 00 58 47

MARCH 23
 U.S.C.G.S.
 5 1/2S, 131E
 Banda Sea
 H = 05 12 31
 Mag. = 7
 Banff
 eP 05 26 53 d
 Halifax
 eP' 05 31 42
 e 05 32 31
 Horseshoe Bay
 eP 05 26 33 c
 Kirkland Lake
 eP' 05 31 37 d
 iSKP 05 34 48 d
 ePKS 05 34 59
 Ottawa
 eP' 05 31 29 d
 i 05 31 44
 pP' 05 32 21
 PP 05 34 10
 PKS 05 35 01
 e 05 35 25
 e 05 36 04
 PPS 05 46 08
 SS 05 51 40

MARCH 22
 U.S.C.G.S.
 37.9N, 122.6W
 Northern California
 H = 19 44 22
 Mag. = 5 1/4 - 5 1/2
 Horseshoe Bay
 iP 19 47 12.0
 e 19 49 43
 Kirkland Lake
 eP 19 50 53

Resolute
 iP 05 26 40 d
 esP 05 27 21
 e 05 30 20
 ePP 05 31 05
 eSKS 05 37 08
 e(SP) 05 39 52

SEISMOLOGICAL BULLETIN - 1957

Schefferville
 eP' 05 31 28
 iP' 05 31 35 d
Seven Falls
 e 05 31 45
 e 05 32 30
 PP 05 34 19
 PKS 05 35 08
 e 05 36 08
 PS 05 44 30
 PPS 05 46 09
 SS 05 51 51
 G 06 08 06
Shawinigan Falls
 eP' 05 31 31
 i 05 31 46
 pP' 05 32 25
 PP 05 34 06
 PKS 05 35 03
 e 05 35 36
 e 05 36 01
Victoria
 iP 05 26 33 d
 L 05 28.9

MARCH 23
Horseshoe Bay
 iP 05 30 51 c
 iS 05 37 02
Victoria
 iP 05 30 48
 i 05 37 02
 i 05 37 42

MARCH 23
Ottawa
 eP 10 38 42
Resolute
 iP 10 35 59 d
Shawinigan Falls
 eP 10 38 48

MARCH 23
 U. S. C. G. S.
 51 1/2N, 179W
 Andreanof Islands,
 Aleutian Islands
 H = 13 24 33
Banff
 eP 13 31 51
Kirkland Lake
 eP 13 34 31 c
Ottawa
 eP 13 34 59
 i 13 35 10
Resolute
 eP 13 32 19
Schefferville
 eP 13 33 33
Shawinigan Falls
 eP 13 35 03 c
 i 13 35 16
Victoria
 eP 13 31 23

MARCH 23
 U. S. C. G. S.
 51N, 179 1/2W
 Andreanof Islands,
 Aleutian Islands
 H = 13 39 53
Banff
 eP 13 47 24
Horseshoe Bay
 eP 13 46 54
Kirkland Lake
 eP 13 50 00 c
Ottawa
 eP 13 50 25 d
Resolute
 iP 13 47 34 c
Schefferville
 eP 13 50 06
Shawinigan Falls
 iP 13 50 29 c
 i 13 50 40
Victoria
 iP 13 46 55 d

MARCH 23
Ottawa
 iP_n 19 03 47
 S_n 19 04 04
 d = 150 km
Shawinigan Falls
 i 19 04 45

MARCH 23
Shawinigan Falls
 eP 19 48 05

MARCH 23
Kirkland Lake
 e 19 52 06
 e 19 54 52
 e(S₁) 19 54 59
Ottawa
 i(P₁) 19 52 43
 e 19 55 55
 (S₁) 19 56 04

MARCH 23
Shawinigan Falls
 e 19 52 39
 e 19 53 34
 e 19 54 58
 e(P) 19 52 18
 e 19 53 48
 e 19 54 29
 i 19 55 09
 i 19 56 20

MARCH 23
Banff
 eP 21 39 14.8
 e(S) 21 39 19.2
 Local shock

MARCH 23
Schefferville
 eP 22 17 49
Shawinigan Falls
 eP 22 18 10

DOMINION OBSERVATORIES

MARCH 24

Alberni
 iP 00 33 27.4
 i 00 33 33.3
 Horseshoe Bay
 iP 00 33 12.7
 iS 00 33 21.7
 Victoria
 iP 00 33 15.8
 iS 00 33 29.0
 Local shock

MARCH 24

U. S. C. G. S.
 51 1/2N, 175 1/2E
 Rat Islands region
 Aleutian Islands
 H = 04 36 22
 Schefferville
 eP 04 46 47
 Shawinigan Falls
 iP 04 47 13 c

MARCH 24

Schefferville
 eP 05 14 50

MARCH 24

U. S. C. G. S.
 51N, 179 1/2W
 Andreanof Islands,
 Aleutian Islands
 H = 07 29 15
 Banff
 eP 07 36 45
 Ottawa
 eP 07 39 48 c
 Victoria
 iP 07 36 17

MARCH 24

U. S. C. G. S.
 51N, 130W
 Near north coast of
 Vancouver Island
 H = 08 22 23
 Mag. = 6 3/4 - 7

Alberni
 eP 08 23 21.8
 eS 08 24 06.4
 Banff

eP 08 24 41.3
 e(S) 08 27 19.4

Horseshoe Bay

iP 08 23 36.3
 i 08 23 41
 i 08 24 28
 i(S) 08 24 33
 e 08 24 48

Kirkland Lake

eP 08 28 54
 e(S) 08 35 06
 eL 08 40 14
 iL 08 40 39

Ottawa

eP 08 29 07 c
 i 08 30 32
 PP 08 30 53
 PPP 08 31 17
 S 08 35 08
 G 08 37 00
 L 08 39 30

Resolute

eP 08 27 56
 eS 08 32 08
 eL 08 36 56

Saskatoon

eP 08 26 59
 eS 08 29 35
 eL 08 31.2

Seven Falls

eP 08 29 48
 S 08 35 37
 L 08 42 13

Shawinigan Falls

eP 08 29 37
 PP 08 31 02
 PPP 08 31 41

Victoria

iP 08 23 38.5
 i 08 23 44.0
 i 08 24 01.8
 i 08 24 07.2
 iS 08 24 59.3

Note: This shock was local to the western stations.

MARCH 24

U. S. C. G. S.
 52 1/2N, 169 1/2W
 Fox Islands,
 Aleutian Islands
 H = 11 06 10

Banff

eP 11 12 46 c

Kirkland Lake

eP 11 15 37
 e 11 15 49

Ottawa

eP 11 16 04 c
 P_cP 11 17 07
 PP 11 18 12
 e 11 18 25

Resolute

eL 11 27 29

Seven Falls

eP 11 16 16

Shawinigan Falls

iP 11 16 09
 P_cP 11 17 13
 PP 11 18 18

MARCH 24

U. S. C. G. S.
 52 1/2N, 171 1/2W
 Fox Islands,
 Aleutian Islands
 H = 11 36 50

Banff

iP 11 43 38 c

Kirkland Lake

eP 11 46 23 c

SEISMOLOGICAL BULLETIN - 1957

Ottawa
 iP 11 46 50 c
 P_CP 11 47 40
 Seven Falls
 eP 11 47 00
 Shawinigan Falls
 iP 11 46 56 c
 Victoria
 iP 11 42 07 c

MARCH 24
 Ottawa
 iP_N 19 17 35
 iS_N 19 17 52
 L 19 18 01
 d = 150 km

Resolute
 iP 00 46 25 c
 eL 01 02 37
 Schefferville
 eP 00 48 58.5 d
 i 00 49 15
 Shawinigan Falls
 iP 00 49 16 d
 Victoria
 eP 00 45 18

MARCH 24
 Alberni
 iP 12 06 01.3
 Banff
 eP 12 07 22.6
 Horseshoe Bay
 eP 12 06 17.2
 eS 12 07 30
 Victoria
 eP 12 06 26.3
 iS 12 07 39.6
 Local shock

MARCH 24
 Kirkland Lake
 eP 21 13 04
 Ottawa
 eP 20 03 32
 Resolute
 eP 20 00 44
 Schefferville
 eP 20 03 16.5
 e 20 03 28.5
 Shawinigan Falls
 iP 20 03 49 c

MARCH 25
 U. S. C. G. S.
 52N, 176W
 Andreanof Islands,
 Aleutian Islands
 H = 01 03 59
 Banff
 iP 01 11 09 c
 Horseshoe Bay
 iP 01 10 39 c
 eP_CP 01 13 20
 Kirkland Lake
 eP 01 13 50
 Ottawa
 iP 01 14 16 c
 Resolute
 iP 01 11 25 d
 Schefferville
 eP 01 13 59
 Shawinigan Falls
 eP 01 14 19 c
 Victoria
 iP 01 10 40
 e 01 13 21

MARCH 24
 U. S. C. G. S.
 Gulf of California
 H = 13 56 35
 Banff
 eP 14 01 23
 Victoria
 eP 14 01 23

MARCH 24
 Banff
 eP 24 02 12 c
 Horseshoe Bay
 iP 24 02 24 c
 Kirkland Lake
 eP 24 01 01
 Ottawa
 eP 24 00 53
 Resolute
 iP 24 01 17 d

MARCH 24
 U. S. C. G. S.
 52 1/2N, 169 1/2W
 Fox Islands,
 Aleutian Islands
 H = 16 32 28
 Kirkland Lake
 eP 16 41 56
 Ottawa
 iP 16 42 23 d
 Schefferville
 eP 16 42 07.5
 Shawinigan Falls
 eP 16 42 28 d

MARCH 25
 U. S. C. G. S.
 53N, 167W
 Fox Islands,
 Aleutian Islands
 H = 00 39 29
 Horseshoe Bay
 eP 00 45 18
 Kirkland Lake
 eP 00 48 42 d
 Ottawa
 iP 00 49 10 d

MARCH 25
 U. S. C. G. S.
 13 1/2N, 91W
 Near coast of
 Guatemala
 H = 02 28 36
 Banff
 eP 02 36 35
 Horseshoe Bay
 iP 02 36 50 c

DOMINION OBSERVATORIES

Kirkland Lake eP 02 35 38 d	MARCH 25 Alberni iP 08 07 55.1 iS 08 08 10.9	Seven Falls eP 14 23 18 ?
Ottawa eP 02 35 25 c	Horseshoe Bay iP 08 07 50.3 c iS 08 08 03.2	Shawinigan Falls iP 14 23 13
Resolute eP 02 38 52 d iP 02 38 54 d	Victoria iP 08 07 40.0 iS 08 07 45.0	Victoria iP 14 19 15 d eL 14 25.9
Shawinigan Falls eP 02 35 42 c	Local shock	
Victoria eP 02 36 45		MARCH 25 U. S. C. G. S. Reulla Gigedo Islands region H = 18 25 48
MARCH 25 Ottawa iP 03 14 35 d	MARCH 25 Horseshoe Bay iP 08 30 41.9 d	Ottawa eP 18 33 08
	Victoria iP 08 30 44	Shawinigan Falls eP 18 33 22
MARCH 25 U. S. C. G. S. 54N, 163 1/2W Unimak Island region, Alaska H = 05 37 25	MARCH 25 Banff eP 10 30 50	MARCH 25 Resolute eP 21 25 39
Banff eP 05 43 29	MARCH 25 Shawinigan Falls eP 11 46 41	MARCH 26 Kirkland Lake eP 01 39 22
Horseshoe Bay eP 05 42 55 i 05 46 27		
Ottawa eP 05 46 52	MARCH 25 U. S. C. G. S. 54N, 165 1/2W Fox Islands, Aleutian Islands H = 14 13 33	MARCH 26 U. S. C. G. S. 54N, 165 1/2W Fox Islands, Aleutian Islands H = 02 28 36
Resolute eP 05 44 08 eL 05 59 13	Banff iP 14 19 47 d	Banff eP 02 16 26
Schefferville eP 05 46 37.5 c	Horseshoe Bay eP 14 19 12 (d)	Horseshoe Bay eP 02 15 53
Victoria eP 05 42 56	Kirkland Lake eP 14 22 44	Kirkland Lake eP 02 19 19
MARCH 25 Ottawa iP 07 14 04 d	Ottawa eP 14 23 08 d	Ottawa iP 02 19 48 c
Shawinigan Falls eP 07 14 07	Resolute iP 14 20 21 d e 14 26 41 e 14 35 40	Resolute iP 02 17 02 c eL 02 31 17
		Shawinigan Falls eP 02 19 53 c

SEISMOLOGICAL BULLETIN - 1957

Victoria
eP 02 15 55

MARCH 26
Horseshoe Bay
iP 13 57 16 c

Victoria
eP 19 20 00.1
Local shock

MARCH 26
U.S.C.G.S.
51N, 177 1/2W
Andreanof Islands,
Aleutian Islands
H = 02 47 50
Resolute
eP_CP 02 57 26
eS 03 02 06
e 03 08 17
eL 03 11 19

MARCH 26
U.S.C.G.S.
50 1/2N, 180
Andreanof Islands,
Aleutian Islands
H = 16 01 53
Banff
eP 16 09 25 d
Horseshoe Bay
iP 16 08 55 d
Halifax
iP 16 13 11 c
Kirkland Lake
eP 16 12 04 c

MARCH 27
U.S.C.G.S.
52 1/2N, 170W
Fox Islands,
Aleutian Islands
H = 04 13 52
Banff
eP 04 20 30
Halifax
iP 04 24 31
Kirkland Lake
eP 04 23 18
Ottawa
iP 04 23 47 c
Schefferville
iP 04 23 30 d
Shawinigan Falls
iP 04 23 52 d

MARCH 26
Banff
eP 03 01 29
Ottawa
eP 03 04 51

Ottawa
iP 16 12 30 c
Resolute
iP 16 09 38 c
Schefferville
eP 16 11 12 c
i 16 11 22.5 d
ePP 16 12 35
Seven Falls
eP 16 12 38
Shawinigan Falls
eP 16 12 34 c

MARCH 27
Halifax
eP₁ 10 26 42
eS₁ 10 26 56
d = 100 km

MARCH 26
U.S.C.G.S.
51 1/2N, 170W
Fox Islands,
Aleutian Islands
H = 03 04 55
Banff
eP 03 11 39
Halifax
eP 03 15 40
Horseshoe Bay
eP 03 09 43
Kirkland Lake
eP 03 14 29 d?
Ottawa
eP 03 14 57 d
Resolute
eP 03 12 10
eS 03 18 09
eL 03 31 37
Shawinigan Falls
eP 03 15 01

MARCH 26
U.S.C.G.S.
51N, 179 1/2W
Andreanof Islands,
Aleutian Islands
H = 18 16 47
Horseshoe Bay
eP 18 23 45
Victoria
eP 18 23 49

MARCH 27
Banff
eP 13 51 54

MARCH 27
Horseshoe Bay
iP 16 21 02.5 c

MARCH 26
Horseshoe Bay
eP 19 19 49

MARCH 28
U.S.C.G.S.
51 1/2N, 174 1/2W
Andreanof Islands,
Aleutian Islands
H = 01 15 20

DOMINION OBSERVATORIES

Ottawa	Ottawa	Schefferville
eP 01 25 33 c	eP 20 05 54	eP 22 36 02
	Shawinigan Falls	i 22 36 11
	eP 20 06 02	Shawinigan Falls
MARCH 28	Victoria	eP 22 36 51 c
Alberni	eP 20 02 10	
iP 04 45 46.4		
iS 04 46 03.4		
Horseshoe Bay	MARCH 28	MARCH 29
iP 04 45 44.2	U. S. C. G. S.	Shawinigan Falls
Victoria	51N, 171 1/2W	eP 00 22 23
iP 04 45 29.7	Fox Islands,	
iS 04 45 33.0	Aleutian Islands	MARCH 29
i 04 45 35.5	H = 20 08 20	U. S. C. G. S.
Local shock	Banff	53 1/2N, 167W
	eP 20 15 07	Fox Islands,
	Horseshoe Bay	Aleutian Islands
	eP 20 14 37	H = 05 10 28
MARCH 28	Kirkland Lake	Alberni
Banff	eP 20 18 02	eP 05 16 10
eP 14 28 42	Ottawa	Banff
	iP 20 18 24 d	eP 05 16 48
	Resolute	Halifax
MARCH 28	eP 20 15 37 d	eP 05 20 55
Ottawa	e 20 24 06	iLg 05 49 21
iP _n 15 47 17	e 20 25 24	Horseshoe Bay
S _n 15 47 34	e 20 28 27	eP 05 16 15
L 15 47 42	Schefferville	e 05 19 36
d = 150 km	iP 20 18 09 d	iS 05 20 55
	i 20 18 19	Kirkland Lake
MARCH 28	Shawinigan Falls	iP 05 19 41 c
Banff	eP 20 18 29	i 05 20 00
iP 18 36 29 d?	Victoria	e 05 21 45
Horseshoe Bay	eP 20 14 37	eS 05 26 53
iP 18 39 04.9 c	e 20 19 39	
Schefferville	eL 20 21.5	Ottawa
iP 18 39 20 c		iP 05 20 08 d
		P _c P 05 21 14
		PP 05 22 19
		i 05 22 29
		S 05 27 46
MARCH 28	MARCH 28	PS 05 28 08
U. S. C. G. S.	U. S. C. G. S.	PPS 05 28 18
Andreanof Islands,	39 1/2N, 22 1/2E	SaS 05 29 26
Aleutian Islands	Central Greece	SS 05 32 00
H = 19 55 31	H = 22 25 58	
Banff	Banff	Resolute
eP 20 02 41	eP 22 38 27	iP 05 17 22 c
Horseshoe Bay	Ottawa	eS 05 22 51
eP 20 02 10	eP 22 37 07	i 05 23 36
	Resolute	eL 05 24 30
	eP 22 36 04	

SEISMOLOGICAL BULLETIN - 1957

Saskatoon
 eP 05 17 31
 eS 05 23 03
Schefferville
 iP 05 19 54
 e 05 28 57
Seven Falls
 eP 05 20 18
 P_cP 05 21 03
 PP 05 22 30
 PPP 05 23 52
 S 05 28 10
 PS 05 28 33
 e 05 29 03
 S_cS 05 30 01
 e 05 30 26
 SS 05 31 54
 L_g 05 33 11
 L_r 05 36 45
Shawinigan Falls
 eP 05 20 14 d
 P_cP 05 21 07
 PP 05 22 25
 i 05 22 35
 S 05 28 05
 PS 05 28 21
 SS 05 32 10
Victoria
 iP 05 16 19
 i 05 16 35
 eS 05 21 00

MARCH 29
Ottawa
 eP 05 50 04
Shawinigan Falls
 eP 05 50 10

MARCH 29
U.S.C.G.S.
 4N, 127E
Falond Islands
 H = 05 37 50
Ottawa
 iP' 05 57 21 d
Shawinigan Falls
 iP' 05 57 20

MARCH 29
U.S.C.G.S.
 53 1/2N, 167W
Fox Islands,
Aleutian Islands
 H = 07 25 58
Banff
 eP 07 32 18
Kirkland Lake
 eP 07 35 11
Ottawa
 eP 07 35 39 c
Resolute
 eP 07 32 53
Shawinigan Falls
 eP 07 35 45
Victoria
 eP 07 31 49

MARCH 29
U.S.C.G.S.
 53N, 167W
Fox Islands,
Aleutian Islands
 H = 08 16 03
Banff
 eP 08 22 23
Ottawa
 eP 08 25 45
Resolute
 eP 08 23 01 c
Schefferville
 eP 08 25 29
Shawinigan Falls
 eP 08 25 51

MARCH 29
Banff
 eP 15 21 34

MARCH 29
Resolute
 eP 18 50 57
 iP 18 51 04 d

MARCH 29
U.S.C.G.S.
 53N, 169W
Fox Islands,
Aleutian Islands
 H = 22 49 51
 Mag. = 6 - 6 1/4
Banff
 eP 22 56 19
Halifax
 eP 23 00 23
Horseshoe Bay
 eP 22 55 55
 eS 23 00 33
Kirkland Lake
 eP 22 59 10 c
 eS 23 06 38
Ottawa
 iP 22 59 39 c
 S 23 07 30
Resolute
 iP 22 56 52 c
 eS 23 01 57
 e 23 05 53
 eS_cS 23 06 31
 eL 23 09 29
Schefferville
 eP 22 59 25 c
 iP 22 59 25.5 d
 i 22 59 38 d
Seven Falls
 eP 22 59 51
 S 23 07 50
 PS 23 08 14
 SS 23 12 05
Shawinigan Falls
 iP 22 59 44 c
 P_cP 23 00 35
 PP 23 02 01
Victoria
 eP 22 55 52
 S 23 00 38
 L 23 04.0

DOMINION OBSERVATORIES

MARCH 30

U.S.C.G.S.
51 1/2N, 179 1/2W
Andreanof Islands,
Aleutian Islands
H = 00 42 40
Banff
eP 00 50 06
Halifax
eP 00 53 52
Horseshoe Bay
iP 00 49 39 d
Kirkland Lake
eP 00 52 45 d
Ottawa
eP 00 53 11 d
Resolute
iP 00 50 17 d
eS 00 56 10
Schefferville
iP 00 56 53 c
Shawinigan Falls
eP 00 53 15 d
i 00 53 26
P_cP 00 54 05
Victoria
eP 00 49 41.1 d

MARCH 30

U.S.C.G.S.
51 1/2N, 178W
Andreanof Islands,
Aleutian Islands
H = 01 50 39
Banff
eP 01 58 04
e 02 00 14
Horseshoe Bay
eP 01 57 31
eP_cP 02 00 04
Resolute
iP 01 58 13

MARCH 30

Banff
eP 02 04 00

MARCH 30

Horseshoe Bay
eP 02 13 28.9
iS 02 13 44.6
Victoria
eP 02 13 35.2
iS 02 13 57.0
Local shock

MARCH 30

U.S.C.G.S.
51N, 180
Andreanof Islands,
Aleutian Islands
H = 06 37 00
Banff
eP 06 44 31
Horseshoe Bay
eP 06 44 02
e 06 46 23
Resolute
iP 06 44 40 c
Shawinigan Falls
eP 06 47 38
Victoria
iP 06 44 04 d?
L 06 54.0

MARCH 30

Ottawa
e(P) 07 53 25

MARCH 30

U.S.C.G.S.
52N, 175W
Andreanof Islands,
Aleutian Islands
H = 09 17 00
Banff
eP 09 24 06 c
Halifax
eP 09 27 57
Horseshoe Bay
eP 09 23 35
Kirkland Lake
eP 09 26 49

Ottawa

eP 09 27 16 d
Resolute
eP 09 24 24 d
iP 09 24 25 c
i 09 26 37
e 09 30 20
e 09 31 17
Schefferville
eP 09 27 03.7 d
iP 09 27 04 c
e 09 27 51
i 09 28 24.5
Shawinigan Falls
eP 09 27 20 d
Victoria
iP 09 23 37 c?
eS 09 28 55
L 09 32.1

MARCH 30

Banff
eP 11 19 02
Horseshoe Bay
eP 11 18 31
Victoria
eP 11 18 33

MARCH 30

Victoria
iP 23 14 51.1 d?
iS 23 14 59.9
Local shock

MARCH 31

Banff
eP 00 13 52 ?
e 00 14 07.9
e 00 14 10.9
Local shock

MARCH 31

U.S.C.G.S.
Near coast of
northern Chile
H = 02 22 40
h = about 100 km

SEISMOLOGICAL BULLETIN - 1957

Banff
eP 02 34 51
Kirkland Lake
eP 02 23 39 c?
e 02 34 08
Ottawa
eP 02 33 18
P_CP 02 33 48
Seven Falls
eP 02 33 47
S 02 42 54
Shawinigan Falls
eP 02 33 25
P_CP 02 33 55

MARCH 31
U.S.C.G.S.
43 1/2N, 127 1/2W
Off coast of Oregon
H = 02 23 05
Alberni
iP 02 24 38.6
i 02 25 44

Banff
eP 02 25 46.9
Horseshoe Bay
eP 02 24 44
e 02 25 56
Resolute
eL 02 41 21

Victoria
iP 02 24 32.1
iS 02 25 37.2
L 02 27 24

Note: This shock was
local to the
western stations.

MARCH 31
Kirkland Lake
eP 04 22 39

MARCH 31
U.S.C.G.S.
51 1/2N, 178W
Andreanof Islands,
Aleutian Islands
H = 10 08 28
Banff
eP 10 15 50
Horseshoe Bay
eP 10 15 19
Kirkland Lake
eP 10 18 38
Ottawa
eP 10 18 55
Resolute
eP 10 16 06
iS 10 21 54
eL 10 29 44
Shawinigan Falls
eP 10 18 59
Victoria
eP 10 15 22

MARCH 31
U.S.C.G.S.
54N, 158E
Kamchatka
H = 17 22 55
Shawinigan Falls
eP 17 34 15 c

**EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1957.**