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Seismological Bulletin

*Seismological Service
of Canada*

**October - December
1957**

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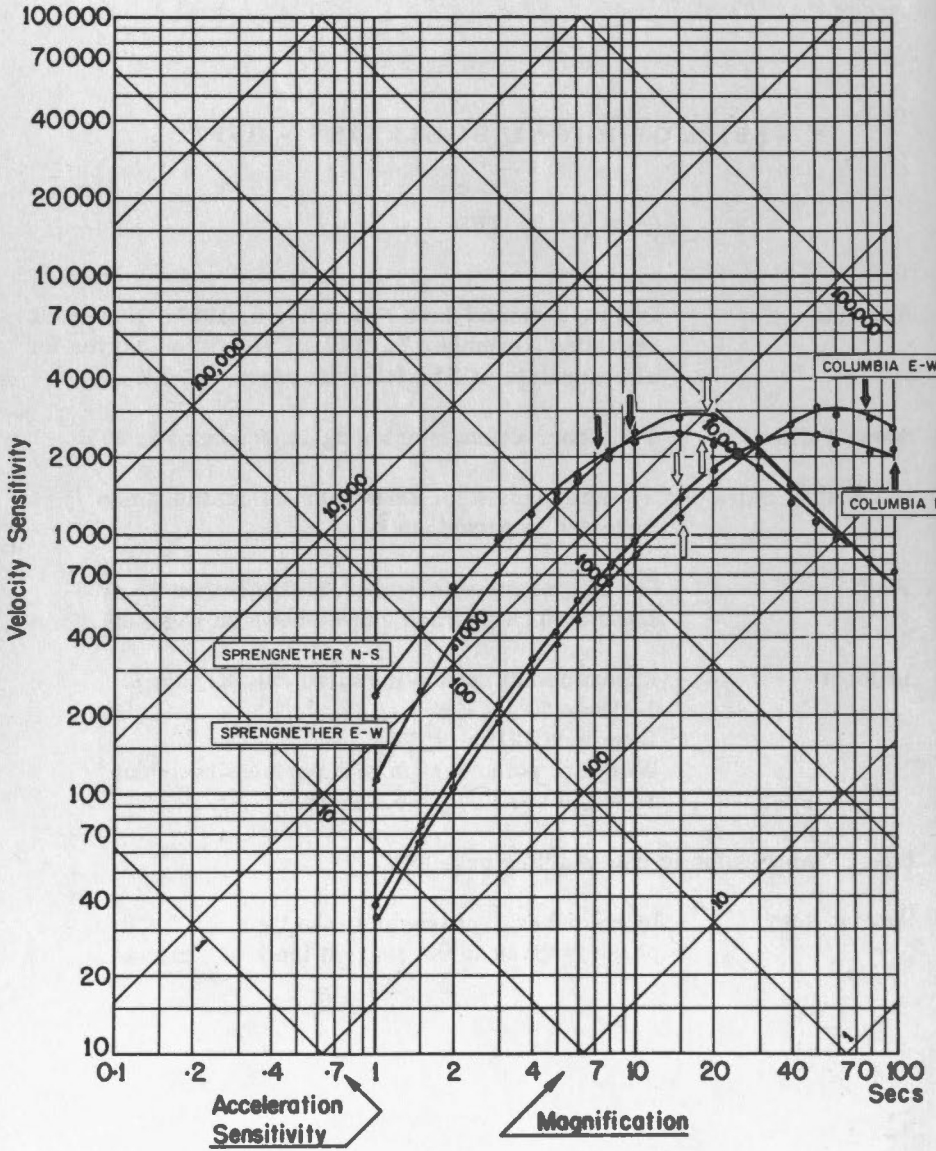
***Dominion Observatory,
Department of Mines and
Technical Surveys, Ottawa***

SEISMOLOGICAL BULLETINS - 1957

NOTES

- 1) Resolute - Old vault closed down November 6, 1957. New vault operating November 7, 1957. Calibration curves for new Resolute will be found on pages 226-227.
- 2) Seven Falls - Time corrections started again October 26, 1957.
- 3) Shawinigan Falls - No time signals for December. Doubtful times indicated in parenthesis.
- 4) Banff - Out of operation November 17-December 25, 1957. Estimated calibration curve shown on page 228.
- 5) Lillooet - Experimental station installed July 22, 1957.
Latitude $50^{\circ}41.7' N$
Longitude $121^{\circ}55.0' W$
Willmore seismograph with portable recorder.
 $T_s = 1.0 \text{ sec.}$ $T_g = 0.25 \text{ sec.}$
- 6) I.G.Y. microseismic data starting page 265.
- 7) Special Note - In recording L phases only the time for the first phase is given to the nearest tenth of a minute.

STATION: RESOLUTE HORIZONTALS



$\phi = 74^{\circ}41.2' N$ $\lambda = 94^{\circ}54.0' W$ Altitude 15 m

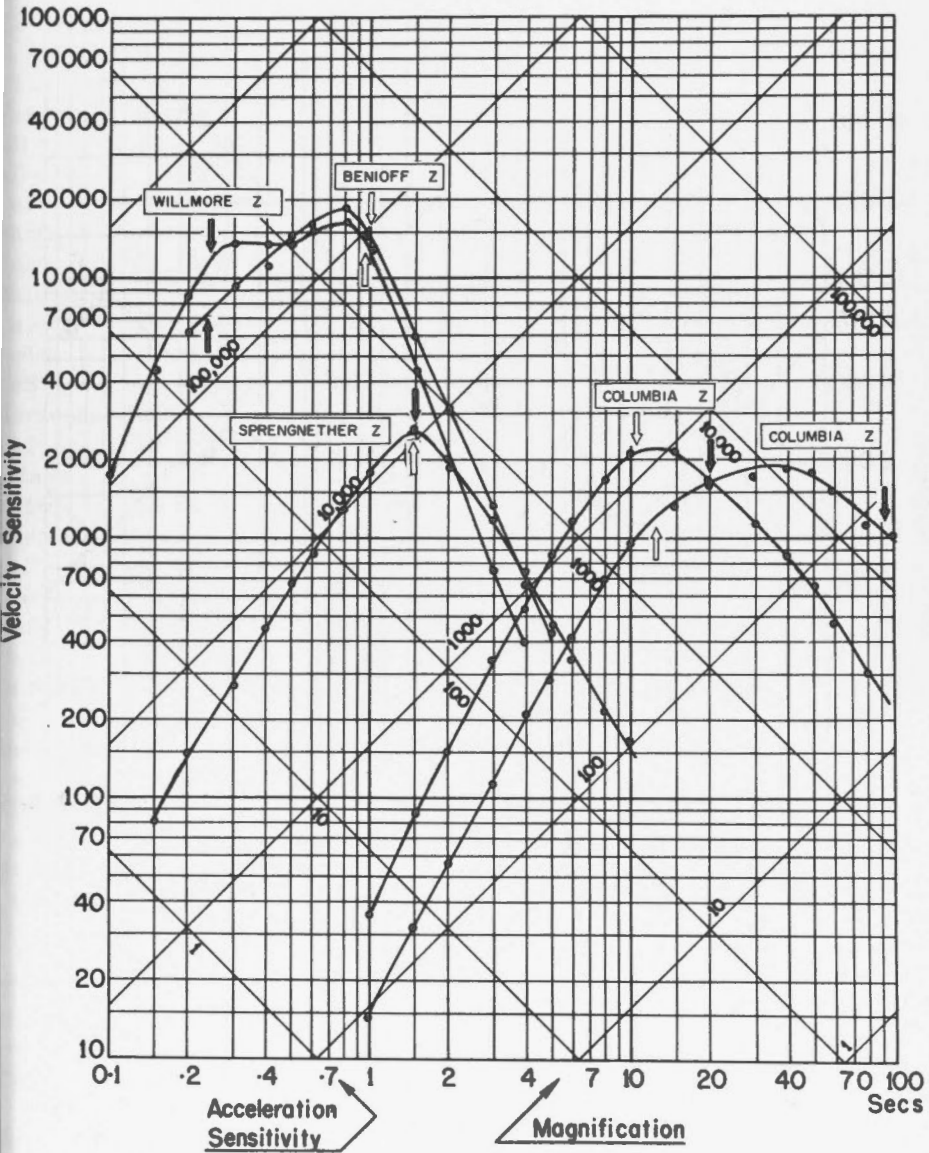
Foundation : Early Palaeozoic limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: December 1957

STATION : RESOLUTE VERTICALS



$\phi = 74^{\circ} 41.2' N$ $\lambda = 94^{\circ} 54.0' W$ Altitude 15 m

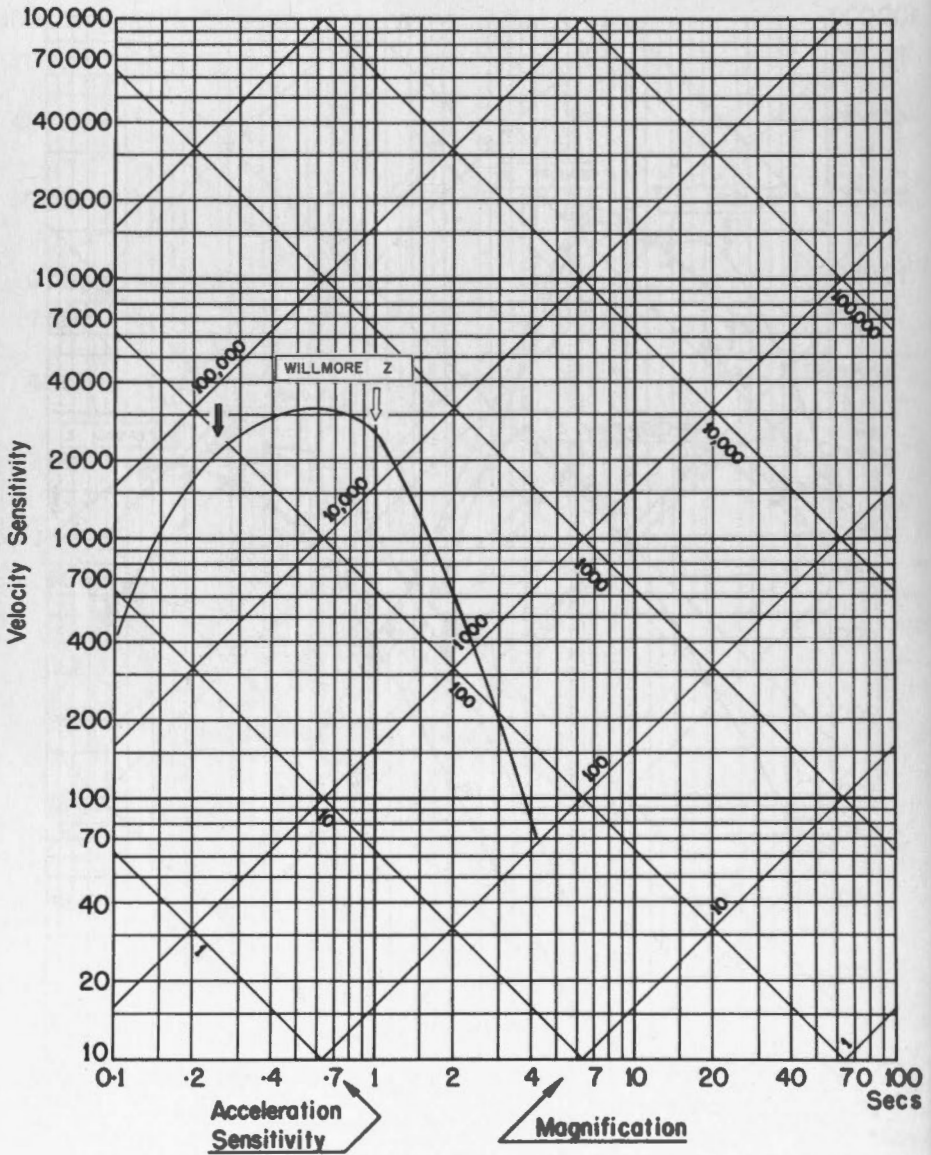
Foundation : Early Palaeozoic limestone

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: December 1957

STATION: BANFF



$\phi = 51^{\circ} 10.3' N$ $\lambda = 115^{\circ} 33.5' W$ Altitude

Foundation : Bedrock

$T_s \uparrow$

$T_g \uparrow$

Date of Calibration: Estimated Curve

SEISMOLOGICAL BULLETIN - 1957

OCTOBER - DECEMBER

OCTOBER 2
 U. S. C. G. S.
 11N, 63W
 Venezuela foreshock
 H = 12 27 55
 Alberni
 eP 12 38 29
 Banff
 eP 12 34 49
 Halifax
 eP 12 34 44
 ePP 12 36 09
 eS 12 40 05
 Horseshoe Bay
 eP 12 38 21
 Ottawa
 eP 12 35 01
 Resolute
 iP 12 38 54 d
 eS 12 47 41
 eSS 12 52 35
 eL 12 54 32
 Saskatoon
 e 12 45 00
 Seven Falls
 eP 12 34 (59)
 Shawinigan Falls
 eP 12 35 02
 Victoria
 eP 12 38 20

OCTOBER 2
 U. S. C. G. S.
 6 1/2S, 69 1/2E
 Chagos Islands
 H = 20 58 39
 Resolute
 eS 21 25 38
 eSS 21 33 41
 eL 21 44 54

OCTOBER 3
 U. S. C. G. S.
 4S, 134E
 New Guinea
 H = 05 58 12
 Seven Falls
 eP' 06 17 (21)

OCTOBER 3
 U. S. C. G. S.
 10 1/2N, 62 1/2W
 Venezuela foreshock
 H = 06 39 08
 Halifax
 eS 06 51 29
 Ottawa
 eP 06 46 28
 Resolute
 eL 07 10 25
 Seven Falls
 eP 06 46 (15)
 eS 06 52 (37)
 eL 06 55 (36)
 Shawinigan Falls
 eP 06 46 20

OCTOBER 3
 Seven Falls
 iP₁ 16 37 (33.5)
 iS₁ 16 37 (37.0)
 Shawinigan Falls
 iP₁ 16 37 56
 i 16 38 01
 iS₁ 16 38 12

OCTOBER 3
 Alberni
 eP 19 03 33.0
 Horseshoe Bay
 eP 19 03 43.0
 Lillooet
 eP 19 03 51.4
 Victoria
 eP 19 04 14.4

OCTOBER 3
 Alberni
 iP 22 42 31.5
 iS 22 42 47.2
 Horseshoe Bay
 iP 22 42 31.4
 iS 22 42 46.6
 Lillooet
 eP 22 42 55.7
 Victoria
 iP 22 42 16.4 N, E

OCTOBER 3
 Alberni
 iP 23 59 30.0
 eS 23 59 45.6
 Horseshoe Bay
 iP 23 59 29.4 c
 iS 23 59 44.9
 Lillooet
 eP 23 59 54.8
 Victoria
 iP 22 59 14.2 N, E

OCTOBER 4
 Ottawa
 iP₁ 00 15 32
 i 00 15 34
 iS₁ 00 15 37
 D = 35 km

OCTOBER 4
 U. S. C. G. S.
 30 1/2N, 42W
 Mid-Atlantic ocean
 H = 00 21 07
 Shawinigan Falls
 iP 00 27 05

OCTOBER 4
 Resolute
 eL 05 12 45

DOMINION OBSERVATORIES

OCTOBER 4		OCTOBER 4	Halifax
U. S. C. G. S.		U. S. C. G. S.	eP 11 47 39
11N. 63W		11N, 62 1/2W	Ottawa
Near coast of		Venezuela aftershock	eP 11 48 23
Venezuela		H = 06 05 50	Resolute
H = 05 26 09		Seven Falls	eL 12 12 25
h = 60 km		eP 06 13 (03)	Seven Falls
Alberni		Shawinigan Falls	eP 11 47 (55) d
eP 05 36 37		eP 06 12 58	Shawinigan Falls
Halifax			eP 11 48 09
iP 05 32 49 d,s			
iS 05 38 09 E			
iL 05 39 55			
Horseshoe Bay		OCTOBER 4	OCTOBER 5
eP 05 36 28		Alberni	U. S. C. G. S.
eS 05 44 50		iP 19 35 02.2	Crete aftershock
Lillooet		Horseshoe Bay	H = 15 51 48
eP 05 36 28 c?		iP 19 35 17.0	Seven Falls
Ottawa		iS 19 36 24	eP 16 02 (57) d
eP 05 33 08 c		Lillooet	Shawinigan Falls
ePP 05 34 28		iP 19 34 52.7 c	eP 16 03 21
eP _c P 05 35 31		Victoria	
eS 05 38 56		iP 19 35 19.6 d	
eSS 05 41 20		iS 19 36 19	OCTOBER 5
eL 05 42 30			U. S. C. G. S.
Resolute			38N, 69 1/2E
eP 05 36 55 c		OCTOBER 4	Afghanistan-Tadzhik
eS 05 45 51		U. S. C. G. S.	border
eL 05 53 23		53N, 178E	H = 22 40 14
Saskatoon		Rat Islands, Aleutians	Resolute
eP 05 35 30		H = 23 55 45	eL 23 10.3
eS 05 43 14		Ottawa	
Seven Falls		eP 24 06 20 d	
eP 05 33 (08)		Resolute	
ePPP 05 34 (58)		eP 24 03 20 c	OCTOBER 6
i 05 35 (51)		e 24 03 58	U. S. C. G. S.
eS 05 38 (57)		eS 24 09 16	11N, 62 1/2W
eL 05 41 (01)		Seven Falls	Venezuela aftershock
Shawinigan Falls		eP 24 06 (18)	H = 00 54 05
iP 05 33 11 c		Shawinigan Falls	Halifax
eS 05 39 03		eP 24 06 22	eP 01 00 58
Victoria		eP _c P 24 07 03	Ottawa
eP 05 36 31 W			eP 01 01 11
eS 05 44 57			Resolute
eL 05 56			eSS 01 18 40
		OCTOBER 5	Seven Falls
		U. S. C. G. S.	eP 01 01 (14)
		34 1/2N, 26 1/2E	Shawinigan Falls
		Near Isl. of Crete	eP 01 01 16
		H = 11 36 46	

SEISMOLOGICAL BULLETIN - 1957

OCTOBER 6

Resolute
eL 09 14 31

OCTOBER 6

U. S. C. G. S.
49 1/2N, 155E
Northern Kurile Isl.
H = 21 27 51
h = 60 km
Ottawa
eP 21 39 34
Shawinigan Falls
eP 21 39 34

OCTOBER 6

U. S. C. G. S.
52N, 174W
Andreanof Isl., Aleutians
H = 23 27 00
Ottawa
iP 23 37 10 c
Resolute
eL 23 47 28
Seven Falls
eP 23 37 (14)
Shawinigan Falls
eP 23 37 15

OCTOBER 7

U. S. C. G. S.
53 1/2N, 165W
Unimak Isl. region
H = 05 10 17
Resolute
eL 05 29 10

OCTOBER 7

U. S. C. G. S.
51N, 159E
Off southeast coast of
Kamchatka
H = 13 19 45

Horseshoe Bay

eP 13 28 25
Ottawa
eP 13 31 51
Resolute
iP 13 28 05 c
ePP 13 29 56
eS 13 34 54
eSS 13 37 33
Seven Falls
eP 13 31 (13)
eS 13 40 (22)
Shawinigan Falls
eP 13 31 15 c
Victoria
eP 13 28 23

OCTOBER 8

U. S. C. G. S.
23 1/2S, 68W
Northern Chile
H = 06 53 31
h = 150 km
Lillooet
eP 07 06 07
Ottawa
eP 07 04 23
Seven Falls
eP 07 04 (29)
Shawinigan Falls
eP 07 04 31
e(P_cP) 07 05 03
Victoria
eP 07 06 06

OCTOBER 8

Alberni
iP 21 47 38.2
Horseshoe Bay
eP 21 47 49.4
Victoria
iP 21 47 42.9
eS 21 47 59.3

OCTOBER 8

Alberni
eP 21 56 28.2
Horseshoe Bay
eP 21 56 39.7
Victoria
eP 21 56 33.6

OCTOBER 8

Alberni
iP 22 00 24.8
Horseshoe Bay
iP 22 00 36.0
Victoria
iP 22 00 31.0

OCTOBER 8

Alberni
iP 22 14 53.3
Horseshoe Bay
e 22 15 08.7
Victoria
eP 22 15 00.9

OCTOBER 8

Alberni
eP 22 17 50.0
Horseshoe Bay
eP 22 18 05.7
Victoria
eP 22 17 58.7

OCTOBER 9

Ottawa
e(P) 04 41 08
e 04 48 31

OCTOBER 9

Seven Falls
eP_n 14 17 (22)
eS_n 14 17 (41)
D = 170 km

DOMINION OBSERVATORIES

OCTOBER 10

U. S. C. G. S.
52 1/2N, 169 1/2W
Fox Islands, Aleutians
H = 01 43 00

Ottawa
eP 01 52 54

Resolute
eP 01 50 02

Seven Falls
eP 01 52 (00)

Shawinigan Falls
eP 01 52 58

Victoria
eP 01 49 11

OCTOBER 10

Resolute
eP_N 02 22 01
iS_N 02 23 26
eS₁ 02 24 12

OCTOBER 10

U. S. C. G. S.
52 1/2N, 166 1/2W
Fox Islands, Aleutians
H = 03 39 11

Ottawa
eP 03 48 54

Resolute
eP 03 46 11
e(P_CP) 03 48 39

Seven Falls
eP 03 49 (00)

Shawinigan Falls
eP 03 48 58

Victoria
eP 03 45 01

OCTOBER 10

U. S. C. G. S.
52N, 174 1/2W
Andreanof Islands,
Aleutians
H = 05 44 32

Ottawa

eP 05 54 46

Resolute
eL 06 07.2

Seven Falls
eP 05 54 (50)

Shawinigan Falls
eP 05 54 (49) c

OCTOBER 10

U. S. C. G. S.
71N, 52 1/2E

Novaya Zemla
H = 06 54 44

Seven Falls
eP 07 04 (17)

OCTOBER 10

Resolute
e 07 43 52

OCTOBER 10

U. S. C. G. S.
52N, 174W
Andreanof Islands,
Aleutians
H = 07 38 18

Ottawa
eP 07 48 31 c

Resolute
ePP 07 47 54

Seven Falls
eP 07 48 (35)

Shawinigan Falls
eP 07 48 35 c

eP_CP 07 49 12

Victoria
eP 07 44 50

OCTOBER 10

Resolute
eL 15 04.4

OCTOBER 10

Alberni
eP 18 06 27.7
eS 18 06 44.4

OCTOBER 10

U. S. C. G. S.
54N, 166W
Fox Islands, Aleutians
H = 18 53 59

Horseshoe Bay
eP 18 59 37

Ottawa
eP 19 03 31

Resolute
eP 19 00 45 d
eS 19 06 07

Seven Falls
eP 19 03 (36)

Shawinigan Falls
eP 19 03 35 c
ePP 19 04 35

Victoria
eP 18 59 38
e 19 04 29

OCTOBER 10

Ottawa
iP₁ 19 16 21
iS₁ 19 16 37
i 19 16 41

D = 130 km
Shawinigan Falls
eP_N 19 16 24
eS_N 19 16 43
e 19 16 57

OCTOBER 11

Seven Falls
eP 20 40 (22)

Shawinigan Falls
eP 20 40 21
e 20 40 55

SEISMOLOGICAL BULLETIN - 1957

OCTOBER 12	Halifax	OCTOBER 15
U. S. C. G. S	e 21 17	Shawinigan Falls
14N, 145E	e 21 33 59	eP 03 44 38 d
Mariana Islands	Ottawa	
H = 17 35 26	eP' 20 52 52	
h = 100 km	Resolute	OCTOBER 15
Resolute	eP' 20 53 01	Shawinigan Falls
e 17 54.1	e 20 53 11	iP 04 00 44 c
e 18 00.4	eSKSP 21 06 22	
	eSS 21 16 24	
	eSSS 21 21 31	OCTOBER 15
OCTOBER 12	Shawinigan Falls	U. S. C. G. S.
U. S. C. G. S	eP' 20 52 57	9N, 84W
8S, 111E		Near south coast of
Near south coast of Java		Costa Rica
H = 18 57 02	OCTOBER 14	H = 04 02 07
Ottawa	Resolute	Horseshoe Bay
eP' 19 16 33	e 00 50 11	eP 04 11 19
Resolute	e 00 50 40	Ottawa
ePS 19 25 46	e 00 50 58	iP 04 09 23 c
eSSS 19 36 21	Local earthquake ?	Resolute
Seven Falls		eP 04 12 54 c
eP' 19 16 (31)		Seven Falls
Shawinigan Falls	OCTOBER 14	iP 04 09 (43) c
eP' 19 16 32	U. S. C. G. S.	Shawinigan Falls
	11N, 63W	eP 04 09 36 d
	Near coast of Venezuela	Victoria
OCTOBER 13	H = 08 17 36	eP 04 11 16
U. S. C. G. S.	Shawinigan Falls	
52 1/2N, 160E	eP 08 24 12	
Off southeast coast of		OCTOBER 15
Kamchatka	OCTOBER 14	U. S. C. G. S.
H = 04 19 17	U. S. C. G. S.	30S, 179W
Ottawa	51 1/2N, 173W	Kermadec Islands
eP 04 30 35	Andreanof Islands,	H = 05 55 21
Resolute	Aleutians	h = 150 km
eP 04 27 21	H = 13 27 42	Ottawa
i 04 27 36	Ottawa	eP' 06 13 55 c
eS 04 34 06	eP 13 37 54	
Shawinigan Falls	Shawinigan Falls	OCTOBER 16
eP 04 30 49	eP 13 37 58	Halifax
		e 19 15 09
OCTOBER 13	OCTOBER 14	e(S ₁) 19 15 32
U. S. C. G. S	Resolute	Ottawa
60S, 151E	e 18 10 26	eP _n 19 15 33
Antarctic Ocean	Local earthquake ?	eS _n 19 17 06
H = 20 33 01		i 19 17 54

SEISMOLOGICAL BULLETIN - 1957

CTOBER 19		Alberni		eSS	12 22 (35)
Alberni		eP	21 51 40 c	eSSS	12 23 (50)
iP	18 09 38.1	Halifax		Shawinigan Falls	
iS	18 10 10.8	iP	21 54 34 c	iP	12 12 34 d
Horseshoe Bay		Horseshoe Bay		Victoria	
iP	18 09 52.7 c?	iP	21 51 43 c	eP	12 16 10
eS	18 10 38	Ottawa			
Victoria		iP	21 54 12 c		
eP	18 09 49.3	Resolute		OCTOBER 20	
e	18 10 33	iP	21 51 12 c	Alberni	
		iP _c P	21 52 16	eP	22 04 37.4
		ePPP	21 54 37	eS	22 04 54.1
		eS	21 58 40	Horseshoe Bay	
CTOBER 19		eS _c S	22 00 49	eP	22 04 27.5 d
U. S. C. G. S.		eSSS	22 05 41	iS	22 04 37.7
23 1/2N, 122E		Seven Falls		Victoria	
Near east coast of		iP	21 54 (11) c	iP	22 04 19.0
Formosa		Shawinigan Falls		iS	22 04 23.0
H = 18 28 50		iP	21 54 12 c		
Alberni		Victoria			
eP	18 41 37	iP	21 51 45 C	OCTOBER 21	
Halifax				U. S. C. G. S.	
e(PP)	18 48 18			11S, 167E	
e(PS)	18 57.6			Santa Cruz Islands	
Horseshoe Bay		OCTOBER 20		H = 00 17 25	
eP	18 41 40 c	U. S. C. G. S.		h = 100 km	
iS	18 52 19	11 1/2N, 42W		Resolute	
eS	18 52 23	Atlantic Ocean		eSS	00 50 27
Ottawa		H = 12 04 22			
e	18 48 03	Halifax			
eSKS	18 54 20	iP	12 11 47 c?		
ePS	18 57 12	iPP	12 13 23	OCTOBER 22	
eSSS	19 07 04	iS	12 17 46 N	Ottawa	
Resolute		iSS	12 20 40 S, W	iP	18 33 35 d
iP	18 40 55 c	Ottawa		i	18 34 12
ePP	18 43 58	eP	12 12 39	Shawinigan Falls	
eS	18 50 56	ePP	12 14 22	eP	18 33 52
Victoria		eS	12 19 28	i	18 34 29
eP	18 41 42 C, N, E	eSS	12 22 44		
eS	18 52 04	e	12 23 18		
i	18 52 32	Resolute		OCTOBER 22	
		eP	12 15 35 c	Alberni	
		i	12 15 42 c	iP	20 03 50.3
		eS	12 42 41	eS	20 04 05.9
OCTOBER 19		Seven Falls		Horseshoe Bay	
U. S. C. G. S.		eP	12 12 (29) d	iP	20 03 51.4 d
44 1/2N, 146E		eS	12 19 (10)	eS	20 03 08.2
Hokkaido, Japan		ePS	12 19 (25)	Lillooet	
H = 21 41 59		e	12 20 (13)	eP	20 04 18.1
h = 150 km					

DOMINION OBSERVATORIES

Victoria		Seven Falls		Lillooet	
eP	20 03 40.8	eP	04 44 (41)	eP	06 42 52.2
eS	20 03 48.6	Shawinigan Falls		Victoria	
		eP	04 44 31	eP	06 42 37.7
		e	04 50 07	eS	06 42 44.1
OCTOBER 22		OCTOBER 23		OCTOBER 23	
Alberni		U. S. C. G. S.		U. S. C. G. S.	
eP	20 05 42.5	52 1/2N, 169 1/2W		32S, 67W	
eS	20 05 59.6	Fox Islands, Aleutians		Argentina	
Horseshoe Bay		H = 05 56 52		H = 23 51 33	
eP	20 05 45.2	Halifax		Ottawa	
eS	20 06 04.0	iP	06 07 29 c	iP	24 03 32 d
Victoria		iS	06 16 04 E	Seven Falls	
eP	20 05 33.2	Horseshoe Bay		eP	24 03 (41) d
eS	20 05 43.0	eP	06 03 03	Shawinigan Falls	
		eS	06 07 45	iP	24 03 38 d
OCTOBER 22		Ottawa			
U. S. C. G. S.		iP	06 06 45 c	OCTOBER 24	
43 1/2N, 146E		eP _C P	06 07 47	U. S. C. G. S.	
Hokkaido, Japan		ePP	06 08 51	14 1/2S, 168E	
H = 20 44 38		eS	06 14 43	New Hebrides Islands	
Halifax		ePS	06 15 03	H = 00 17 37	
eP	20 57 33	eS _C S	06 16 32	Ottawa	
Ottawa		eSS	06 18 32	eP'	00 36 29 c
eP	20 57 10 c	eSSS	06 21 06	eSKS	00 43 33
Resolute		Resolute		ePS	00 47 37
eP	20 54 13 c	eP	06 03 58 d	eSS	00 54 23
e(S)	21 02 30	eS	06 09 34	Resolute	
Seven Falls		eS _C S	06 14 13	eS	00 42 36
eP	20 57 (11)	Saskatoon		eSS	00 50 54
Shawinigan Falls		eL	06 09 55	Seven Falls	
iP	20 57 10 c	Seven Falls		eP'	00 36 (35)
		eP	06 06 (54)	eSKS	00 43 (37)
OCTOBER 23		eS	06 15 (00)	ePS	00 48 (04)
U. S. C. G. S.		ePS	06 15 (19)	eSS	00 55 (07)
19N, 64W		Shawinigan Falls		Shawinigan Falls	
Puerto Rico		iP	06 06 49 c	eP'	00 36 33 c
H = 04 38 30		eS	06 14 48		
Halifax		Victoria			
eP	04 44 05	eP	06 02 57		
Ottawa				OCTOBER 24	
eP	04 44 27			U. S. C. G. S.	
e	04 45 08	OCTOBER 23		40N, 29 1/2E	
eS	04 49 18	Horseshoe Bay		Northwestern Turkey	
e	04 49 57	iP	06 42 33.6 d	H = 02 33 13	
Resolute		eS	06 42 53.6	Seven Falls	
eL	05 04 44			eP	02 44 (15)

SEISMOLOGICAL BULLETIN - 1957

OCTOBER 24

U. S. C. G. S.
20 1/2S, 179W

Fiji Islands
H = 09 07 30

h = 550 km

Horseshoe Bay

iP 09 19 12 c

Ottawa

eP' 09 25 09

ePP 09 26 04

eSKS 09 31 04

eS 09 33 04

eSP 09 35 04

ePKKP 09 36 09

Resolute

eSP 09 34 03

e(PS) 09 35 02

esSP 09 37 29

eSS 09 40 02

Seven Falls

eSKS 09 31 (18)

ePS 09 36 17

Victoria

iP 09 19 08 c

OCTOBER 24

Alberni

iP 14 12 03.9

iS 14 12 08.8

Horseshoe Bay

eP 14 12 18.0

eS 14 12 24.4

Victoria

eP 14 12 18.4

eS 14 12 32.2

OCTOBER 24

U. S. C. G. S.

29S, 68W

Argentina

H = 20 07 15

Ottawa

eP 20 18 55

Seven Falls

eP 20 19 (03) d

Shawinigan Falls

eP 20 19 00

OCTOBER 24

Resolute

e 21 06 14

e 21 12 37

e 21 17 09

OCTOBER 24

U. S. C. G. S.

25N, 109 1/2W

Gulf of California

H = 21 44 28

Banff

eP 21 50 10

Halifax

eS 21 58 52

eSS 22 01 44

eLg 22 06.5

Horseshoe Bay

eP 21 50 12

eS 21 54 24

Ottawa

iP 21 51 15 d

ePP 21 52 31

eP_cP 21 54 02

eS 21 56 40

e 21 59 04

Resolute

iP 21 53 30 c

eS 22 00 42

eSS 22 04.5

Saskatoon

eS 21 55 15

Seven Falls

eP 21 51 (38)

Shawinigan Falls

eP 21 51 34 c

eP_cP 21 54 00

eL 22 00 13

Victoria

eP 21 50 05

eS 21 54 56

OCTOBER 25

Halifax

e 01 42.9

OCTOBER 25

U. S. C. G. S.

21 1/2N, 121 1/2E

Formosa foreshock

H = 01 42 52

Resolute

eP 01 55 07

OCTOBER 25

U. S. C. G. S.

38N, 22 1/2E

Greece

H = 02 18 18

Ottawa

iP 02 29 39 c

Resolute

eP 02 28 30

Seven Falls

eP 02 29 (13)

Shawinigan Falls

eP 02 29 23

OCTOBER 25

U. S. C. G. S.

52 1/2N, 169 1/2W

Fox Islands, Aleutians

H = 04 37 35

Ottawa

iP 04 47 28

Resolute

eP 04 44 40

Shawinigan Falls

eP 04 47 33 d

OCTOBER 25

U. S. C. G. S.

21 1/2N, 121 1/2E

Off coast of Formosa

H = 06 19 06

Resolute

eP 06 31 23 c

DOMINION OBSERVATORIES

OCTOBER 25

U. S. C. G. S.
 50 1/2N, 156 1/2E
 Near south coast of
 Kamchatka
 H = 10 03 32
 Alberni
 eP 10 12 15
 Banff
 eP 10 12 43
 Halifax
 iP 10 15 36 c?,S
 iS 10 25 31 N,E
 Horseshoe Bay
 eP 10 12 21
 Ottawa
 iP 10 15 09 c
 ePP 10 17 52
 ePPP 10 19 39
 eS 10 24 38
 ePS 10 25 06
 ePPS 10 25 28
 eSS 10 29 08
 eSSS 10 32 22
 Resolute
 eP 10 12 01 c
 ePP 10 13 52
 eS 10 18 50
 Seven Falls
 iP 10 15 (12) d
 eS 10 24 (52)
 ePS 10 25 (12)
 Shawinigan Falls
 iP 10 15 10 c
 eP_cP 10 15 37
 eS 10 24 29
 ePS 10 25 06
 ePPS 10 25 15
 Victoria
 eP 10 12 24
 eS 10 19 29

OCTOBER 25

Resolute
 e 19 10 58
 i 19 11 38
 i 19 11 46
 Local shock ?

OCTOBER 26

U. S. C. G. S.
 0, 125E
 Molucca Passage
 H = 04 31 03
 Resolute
 eL 05 26 50

OCTOBER 26

U. S. C. G. S.
 20 1/2S, 178W
 Fiji Islands
 H = 08 26 12
 h = 600 km
 Horseshoe Bay
 eP 08 37 54 d
 Ottawa
 eP' 08 43 49
 Resolute
 eSP 08 52 44
 esSP 08 56 25
 Shawinigan Falls
 eP' 08 43 53
 Victoria
 eP 08 37 50

OCTOBER 26

U. S. C. G. S.
 2S, 116E
 Borneo
 H = 14 16 57
 Ottawa
 eP' 14 36 22 c
 Resolute
 eP 14 31 08 d
 eP' 14 34 40
 eSKS 14 41 56
 eS 14 42 56
 ePS 14 44 48
 Seven Falls
 eP' 14 36 24
 Shawinigan Falls
 eP' 14 36 20

OCTOBER 27

Ottawa
 i(S_n) 08 49 39
 Seven Falls
 e(S_n) 08 51 19
 Shawinigan Falls
 e 08 50 19
 e(S_n) 08 50 35
 Felt at Mattawa, Ont.

OCTOBER 27

U. S. C. G. S.
 56N, 161E
 Kamchatka
 H = 22 32 25
 Alberni
 iP 22 40 32 d
 Halifax
 iS 22 52 48 N,E
 Horseshoe Bay
 eP 22 40 37 d
 eS 22 47 02
 Ottawa
 eP 22 43 26 c
 eS 22 52 14
 ePS 22 52 51
 ePPS 22 53 07
 eSSS 22 59 57
 Resolute
 iP 22 40 06 c
 ePP 22 41 48
 ePPP 22 42 29
 eS 22 46 06
 Saskatoon
 eS 22 48 28
 Seven Falls
 eP 22 43 28
 eS 22 52 18
 eSSS 22 59 44
 Shawinigan Falls
 eP 22 43 26 c
 ePP 22 43 48
 i 22 44 01
 eS 22 52 14
 Victoria
 iP 22 40 41 c,S,
 iS 22 47 08

SEISMOLOGICAL BULLETIN - 1957

OCTOBER 27	Ottawa	Resolute
U. S. C. G. S.	eP' 02 40 56	eS 03 04 13
11 1/2S, 166 1/2E	Resolute	Shawinigan Falls
Santa Cruz Islands	eP 02 35 41	eP 03 01 03
H = 22 56 55	Seven Falls	Victoria
Resolute	eP' 02 40 55	eP 02 57 24
ePS 23 24 31	Shawinigan Falls	
eSSS 23 33 44	eP' 02 40 55	
OCTOBER 28	OCTOBER 30	OCTOBER 30
U. S. C. G. S.	U. S. C. G. S.	U. S. C. G. S.
Panama foreshock	36N, 27 1/2E	36N, 27 1/2E
H = 05 55 35	Dodecanese Islands	Dodecanese Islands
Ottawa	H = 01 43 03	H = 07 30 20
iP 06 03 07 d	Halifax	Ottawa
Seven Falls	iP 01 53 51	eP 07 41 57
iP 06 03 31 d	Ottawa	Resolute
Shawinigan Falls	iP 01 54 36 c	eP 07 40 57
iP 06 03 21 d	Resolute	Seven Falls
	eP 01 53 43	eP 07 41 34
	eS 02 02 27	Shawinigan Falls
	Seven Falls	iP 07 41 42 d
	iP 01 54 12 c	
OCTOBER 28	Shawinigan Falls	OCTOBER 31
U. S. C. G. S.	iP 01 54 22 c	U. S. C. G. S.
Off coast of Oaxaca,		39N, 140E
Mexico		Honshu, Japan
H = 14 18 20		H = 02 36 56
Ottawa	OCTOBER 30	Banff
eP 14 25 26	U. S. C. G. S.	iP 02 47 59 c
Shawinigan Falls	53N, 167W	Ottawa
eP 14 25 46	Fox Isle, Aleutians	eP 02 49 55
	H = 02 13 08	Resolute
OCTOBER 29	Resolute	eP 02 47 12 c
U. S. C. G. S.	eP 02 20 02	ePP 02 49 08
53 1/2N, 160E	eS 02 25 22	Seven Falls
Kamchatka	Shawinigan Falls	eP 02 49 55
H = 00 09 07	eP 02 23 06	Victoria
Ottawa		eP 02 47 39
eP 00 20 24		
OCTOBER 29	OCTOBER 30	OCTOBER 31
U. S. C. G. S.	U. S. C. G. S.	U. S. C. G. S.
2S, 116E	50 1/2N, 179W	8S, 161E
Borneo aftershock	Andreanof Islands,	Soloman Isl. region
H = 02 21 30	Aleutians	H = 04 24 04
	H = 02 50 26	Ottawa
	Horseshoe Bay	iP' 04 42 55
	eP 02 57 (58)	

DOMINION OBSERVATORIES

OCTOBER 31		OCTOBER 31		Horseshoe Bay	
U. S. C. G. S.		U. S. C. G. S.		iP	10 12 48.3 d
6 1/2N, 83W		55S, 148E		iS	10 13 24.3
Off coast of Panama		South of Tasmania		Victoria	
H = 10 07 54		H = 15 29 10		iP	10 12 36.9 c, N, V
Banff		Ottawa		iS	10 13 04.9
eP	10 17 07 (c)	eP'	15 49 08	iS	10 13 05.3
Halifax		Resolute		D = 270 km	
iP	10 15 41 d, S, W	eP'	15 48 59		
ePP	10 17 21	Shawinigan Falls			
iS	10 22 04 N, W	eP'	15 49 12		
Horseshoe Bay				NOVEMBER 1	
eP	10 17 26			Alberni	
Ottawa		OCTOBER 31		eP	
iP	10 15 25 c	U. S. C. G. S.		10 33 26.1	
ePP	10 16 52	1 1/2N, 86W		Horseshoe Bay	
i	10 17 03	Galapagos Isl. region		iP	
ePPP	10 17 22	H = 16 24 17		10 33 14.2	
eS	10 21 27	Ottawa		e	
eSS	10 24 16	eP		10 33 50.4	
eSSS	10 25 10	Resolute		Victoria	
Resolute		e(S)		iP	
eP	10 18 59 d	16 45 24		10 33 02.3 c, N	
eS	10 28 01	Seven Falls		e	
Saskatoon		eP		10 33 30.6	
eS	10 23 56	Shawinigan Falls			
Seven Falls		eP		NOVEMBER 1	
iP	10 15 46 c			Alberni	
ePP	10 17 28	OCTOBER 31		eP	
eP _c P	10 17 45	Resolute		11 06 32.0	
eS	10 22 03	e(P)		Horseshoe Bay	
eSS	10 24 54	i		eP	
Shawinigan Falls		Local shock ?		11 06 21.0	
iP	10 15 38 c			eS	
ePP	10 17 09			11 06 56.1	
i	10 17 15			Victoria	
ePPP	10 17 49			eP	
eS	10 21 36			11 06 08.0	
Victoria				e	
eP	10 17 21 c N, W			11 06 36.2	
iS	10 25 01			NOVEMBER 1	
eL	10 32.4			Victoria	
		NOVEMBER 1		eP	
		U. S. C. G. S.		20 57 10.2	
		47N, 121W		eS	
		Near Mt. Ranier,		20 57 12.0	
		Washington		NOVEMBER 1	
		H = 10 12 00		Alberni	
		Alberni		iP	
		iP		21 23 39.7	
		eS		iS	
		10 12 54.9		21 23 57.9	
		Banff		Horseshoe Bay	
		eP		iP	
		10 13 29.9		21 23 37.5	
		e		iS	
		10 14 36.5		21 23 52.3	
				Victoria	
				iP	
				21 23 22.2	
				iS	
				21 23 26.3	

SEISMOLOGICAL BULLETIN - 1957

NOVEMBER 2

U. S. C. G. S.
52 1/2N, 169W
Fox Islands, Aleutians
H = 01 18 18
Ottawa
eP 01 28 08
Resolute
eL 01 36 58
Shawinigan Falls
eP 01 28 13

NOVEMBER 2

Ottawa
iP₁ 04 00 32
iS₁ 04 00 44
i 04 00 50
D = 95 km
Seven Falls
e(S) 04 01 44
Shawinigan Falls
i(S) 04 01 03

NOVEMBER 2

U. S. C. G. S.
15N, 93 1/2W
Chiapas, Mexico
H = 07 20 58
h = 100 km
Horseshoe Bay
eP 07 28 46
Ottawa
eP 07 27 33
eP_cP 07 30 14
Resolute
iP 07 30 56 c
ePP 07 33 10
esS 07 39 08
eSS 07 43 22
Shawinigan Falls
eP 07 27 54
Victoria
eP 07 28 41

NOVEMBER 2

U. S. C. G. S.
13S, 166 1/2E
New Hebrides Islands
H = 18 30 24
Alberni
eP 18 43 12
Halifax
e 19 08 57
eL 19 34
Horseshoe Bay
eP 18 43 16 d
Ottawa
eP' 18 49 14
ePKKP 18 59 32
Resolute
e(P) 18 44 32 c
eS 18 56 29
ePS 18 58 17
Shawinigan Falls
eP' 18 49 18
Victoria
eP 18 43 14

NOVEMBER 3

Victoria
eP 02 30 40

NOVEMBER 3

U. S. C. G. S.
6S, 147E
Near northeast coast
of New Guinea
H = 10 24 51
Ottawa
eP' 10 43 59
Shawinigan Falls
eP' 10 44 09

NOVEMBER 3

Victoria
eP 12 57 20

NOVEMBER 3

Resolute
e 14 38 15.5
e 14 38 38.5
i 14 38 59.0

NOVEMBER 4

U. S. C. G. S.
52N, 175 1/2W
Andreanof Islands,
Aleutians
H = 02 30 30
Victoria
eP 02 37 08 c

NOVEMBER 4

Horseshoe Bay
eP 04 59 57.3
eS 05 00 15.0

NOVEMBER 4

Horseshoe Bay
eP 05 00 10.8
eS 05 00 36.7

NOVEMBER 4

Horseshoe Bay
iP 16 55 01.6
iS 16 55 03.0

NOVEMBER 4

Alberni
eP 22 02 51.3
eS 22 02 59.8
Horseshoe Bay
eP 22 03 03.6
Victoria
eP 22 02 56.7

NOVEMBER 5

Horseshoe Bay
eP 06 52 21.0
eS 06 52 34.6

DOMINION OBSERVATORY

Victoria e(P) 06 52 15.2 eS 06 52 24.8	NOVEMBER 6 Ottawa iP ₁ 17 16 04 iS ₁ 17 16 13 i 17 16 17 D = 70 km	NOVEMBER 8 Resolute iP 13 37 20 c
NOVEMBER 5 U. S. C. G. S. 13S, 169E New Hebrides H = 09 54 29 h = 650 km Ottawa eP' 10 12 07 Seven Falls eP' 10 12 12 c Shawinigan Falls eP' 10 12 11 c	NOVEMBER 7 U. S. C. G. S. 24S, 112 1/2W South Pacific ocean H = 02 58 53 Horseshoe Bay eP 03 10 31 Victoria eP 03 10 27 c	NOVEMBER 9 U. S. C. G. S. 53 1/2N, 164W Unimak Islands H = 06 16 59 Victoria eP 06 22 30
NOVEMBER 5 U. S. C. G. S. 51N, 178 1/2W Andreanof Islands, Aleutians H = 19 51 15 Horseshoe Bay iP 19 58 09 d Resolute eL 20 16 53 Victoria iP 19 58 12 d	NOVEMBER 7 U. S. C. G. S. 52N, 179E Rat Island, Aleutians H = 04 15 35 Horseshoe Bay eP 04 22 27 c Ottawa eP 04 25 54 c Resolute iP 04 22 59 c Seven Falls eP 04 26 00 c Shawinigan Falls iP 04 25 58 c Victoria iP 04 22 29 c	NOVEMBER 9 U. S. C. G. S. 38 1/2N, 22E Greece H = 23 55 50 Ottawa iP 24 07 02 d
NOVEMBER 6 U. S. C. G. S. 45N, 149 1/2E Kurile Islands H = 13 12 53 Horseshoe Bay eP 13 22 39 Resolute iP 13 22 16 d eS 13 29 57 Victoria eP 13 22 41	NOVEMBER 8 U. S. C. G. S. 43N, 144 1/2E Near east coast of Hokkaido, Japan H = 09 03 34 Resolute iP 09 13 19 d	NOVEMBER 9 U. S. C. G. S. 7S, 155 1/2E Solomon Islands H = 02 36 21 Ottawa iP' 02 55 20 c Resolute eP 02 50 21
		NOVEMBER 10 U. S. C. G. S. 7 1/2S, 155 1/2E Solomon Islands H = 03 43 49 Resolute eP 03 57 51

SEISMOLOGICAL BULLETIN - 1957

NOVEMBER 10
U.S.C.G.S.
6 1/2S, 147E
New Guinea
H = 05 48 57
Ottawa
eP' 06 08 08

NOVEMBER 10
U.S.C.G.S.
34N, 139 1/2E
Honshu, Japan
H = 19 20 05
Ottawa
eP 19 33 34
Resolute
iP 19 30 53 d
eS 19 39 46
eScS 19 40 37

NOVEMBER 11
U.S.C.G.S.
46 1/2N, 112W
Montana
H = 07 49 54
Resolute
e(SS) 08 04 52

NOVEMBER 10
U.S.C.G.S.
34 1/2N, 139E
Honshu, Japan
H = 08 26 06
Resolute
eP 08 36 47
Victoria
eP 08 37 19

NOVEMBER 10
Resolute
eP 19 41 14

NOVEMBER 11
U.S.C.G.S.
Andreanof Islands,
Aleutian
H = 14 12 26
Resolute
e(PPP) 14 22 09

NOVEMBER 10
U.S.C.G.S.
Honshu, Japan
H = 09 40 30
Resolute
eP 09 51 22

NOVEMBER 10
Resolute
iP 20 03 55 c

NOVEMBER 10
Victoria
eP 21 31 19

NOVEMBER 11
U.S.C.G.S.
Guerrero, Mexico
H = 18 20 38
Ottawa
eP 18 27 37
Shawinigan Falls
iP 18 27 58 d

NOVEMBER 10
U.S.C.G.S.
8N, 74 1/2W
Northern Colombia
H = 10 21 14
Horseshoe Bay
eP 10 31 06 d
Ottawa
eP 10 28 33 d
Resolute
eP 10 32 12
Shawinigan Falls
eP 10 28 54
Victoria
eP 10 31 06 d

NOVEMBER 10
U.S.C.G.S.
60N, 152W
Kenai Peninsula,
Alaska
H = 22 13 55
Ottawa
eP 22 22 13
Resolute
eP 22 19 16
Shawinigan Falls
eP 22 22 18

NOVEMBER 12
U.S.C.G.S.
19N, 81 1/2W
Cayman Islands
H = 00 03 02
Ottawa
iP 00 08 47 d

NOVEMBER 11
Horseshoe Bay
eP 07 51 46.9
e 07 51 58.6
eS 07 53 34.4
e 07 54 14

NOVEMBER 12
U.S.C.G.S.
Andreanof Islands,
Aleutian
H = 05 30 28
Ottawa
iP 05 40 43 d
Resolute
eP 05 38 04

DOMINION OBSERVATORIES

NOVEMBER 13
 U.S.C.G.S.
 Hokkaido, Japan
 H = 08 44 36
 Resolute
 eP 08 54 30 d

NOVEMBER 13
 U.S.C.G.S.
 33S, 179W
 Kermadec Islands
 H = 17 22 41
 Halifax
 iP' 17 41 52 c
 ePKS 17 45 14 W
 Ottawa
 iP' 17 41 36 c
 ePP 17 43 18
 Seven Falls
 eP' 17 41 43 c
 Shawinigan Falls
 iP' 17 41 40 c

NOVEMBER 13
 Alberni
 iP 20 11 56.4
 iS 20 12 09.1
 Horseshoe Bay
 iP 20 11 52.6
 iS 20 11 02.4
 Victoria
 iP 20 11 42.6 c,E,S
 iS 20 11 45.8
 i 20 11 46.1

NOVEMBER 13
 Seven Falls
 eP_n 20 46 12
 eS_n 20 46 32
 D = 180 km

NOVEMBER 13
 Seven Falls
 eP_n 20 49 53
 eS_n 20 50 13
 D = 180 km

NOVEMBER 13
 Seven Falls
 eP_n 20 54 50
 eS_n 20 55 12
 D = 205 km

NOVEMBER 14
 Alberni
 eP 03 54 51.9
 Horseshoe Bay
 iP 03 54 40.9
 iS 03 54 49.1

NOVEMBER 14
 U.S.C.G.S.
 51N, 179W
 Andreanof Islands,
 Aleutian
 H = 04 34 41

Alberni
 eP 04 41 30
 Horseshoe Bay
 eP 04 41 37
 Ottawa
 iP 04 45 13 c
 Resolute
 eP 04 42 15
 iPPP 04 44 24

Seven Falls
 eP 04 45 29 c
 Shawinigan Falls
 eP 04 45 17
 Victoria
 eP 04 41 39 d

NOVEMBER 14
 U.S.C.G.S.
 Andreanof Islands,
 Aleutian
 H = 05 20 17
 Ottawa
 iP 05 30 32 d
 Resolute
 eP 05 27 42
 ePPP 05 29 53

Seven Falls
 eP 05 30 42
 Shawinigan Falls
 eP 05 30 36

NOVEMBER 15
 U.S.C.G.S.
 52N, 171 1/2W
 Fox Islands, Aleutian
 H = 06 06 55
 Resolute
 eP 06 14 11 d
 eS 06 20 04

NOVEMBER 15
 Resolute
 iP 06 47 42 d

NOVEMBER 15
 U.S.C.G.S.
 8 1/2N, 124E
 Mindanao, P.I.
 H = 07 52 25
 Resolute
 eP 08 05 44
 eS 08 16 54

NOVEMBER 15
 U.S.C.G.S.
 34N, 141E
 Honshu, Japan
 H = 12 01 37
 Resolute
 iP 12 12 22 c

NOVEMBER 15
 Alberni
 eP 13 37 56.8
 eS 13 39 03
 Horseshoe Bay
 eP 13 38 04.0
 eS 03 39 18
 Victoria
 eP 13 37 51.6
 eS 13 37 56.6

SEISMOLOGICAL BULLETIN - 1957

NOVEMBER 15
 U. S. C. G. S.
 51 1/2N, 158E
 Kamchatka
 H = 16 30 29
 Alberni
 eP 16 39 04
 Halifax
 iP 16 42 29 c
 eS 16 52 16 E

Horseshoe Bay
 eP 16 39 10
 Ottawa
 iP 16 42 01 d
 Resolute
 iP 16 38 50 c
 eS 16 45 27
 Seven Falls
 eP 16 42 03 c
 Shawinigan Falls
 eP 16 42 02 d

NOVEMBER 16
 Alberni
 eP 18 07 14.7
 eS 18 07 34.7
 Horseshoe Bay
 eP 18 07 14.0
 Victoria
 iP 18 06 58.6 c,N,W
 iS 18 07 02.8

NOVEMBER 17
 U. S. C. G. S.
 51 1/2N, 177W
 Andraeof Islands,
 Aleutian
 H = 01 48 48
 Alberni
 eP 01 55 24
 Horseshoe Bay
 eP 01 55 33
 Ottawa
 eP 01 59 11
 Resolute
 eP 01 56 17

i(PPP) 01 58 26
 eS 02 02 12
 Seven Falls
 eP 01 59 24
 Shawinigan Falls
 eP 01 59 15
 Victoria
 eP 01 55 34 c

NOVEMBER 16
 U. S. C. G. S.
 17N, 85W
 Off north coast of
 Honduras
 H = 05 06 46
 Resolute
 eP 05 16 34
 eS 05 24 38

NOVEMBER 16
 Ottawa
 iP₁ 19 48 24
 eS₁ 19 48 33
 i 19 48 37
 D = 70 km

NOVEMBER 17
 Alberni
 e 06 01 27.6
 Horseshoe Bay
 e 06 02 30.4
 Victoria

NOVEMBER 17
 U. S. C. G. S.
 49N, 148 1/2E
 Sea of Okhotsk
 H = 05 57 48
 h = 350 km
 Alberni
 eP 06 06 37 c

Ottawa
 iP 06 09 14 c
 epP 06 10 37
 eS 06 18 41
 Resolute
 iP 06 06 13 c
 iP_cP 06 07 27
 eS_cP 06 10 47
 esS 06 15 00
 eS_cS 06 15 27
 Seven Falls
 eP 06 09 14 c
 Shawinigan Falls
 iP 06 09 15 c
 Victoria
 iP 06 06 46 c,S,E

NOVEMBER 17
 Victoria
 eP 06 34 21.3
 eS 06 35 44.3

NOVEMBER 17
 U. S. C. G. S.
 40 1/2N, 125 1/2W
 Off coast of northern
 California
 H = 06 32 17
 Resolute
 eP 06 39 32.5 d

NOVEMBER 17
 U. S. C. G. S.
 Baja California
 H = 06 43 00
 Resolute
 i(P) 06 48 49 d
 Victoria
 eP 06 47 50

NOVEMBER 17
 U. S. C. G. S.
 Southern Chile -
 Argentina border
 H = 15 41 22

DOMINION OBSERVATORIES

Resolute eP 15 57 17 e(SS) 16 18 23	NOVEMBER 18 U. S. C. G. S. 44N, 148E Kurile Islands H = 15 12 53 Ottawa eP 15 25 20 Resolute iP 15 22 26 c Seven Falls eP 15 25 22 c	NOVEMBER 19 U. S. C. G. S. 31 1/2N, 140E Honshu, Japan H = 23 14 45 Resolute iP 23 25 46 d
NOVEMBER 17 U. S. C. G. S. 30 1/2N, 138E Honshu, Japan H = 17 55 04 h = 450 km Resolute iP 18 05 31 c eP 18 08 13	NOVEMBER 19 U. S. C. G. S. 27 1/2N, 129E Ryukyu Islands H = 01 44 36 Resolute iP 01 56 15 c	NOVEMBER 20 U. S. C. G. S. 23 1/2N, 143 1/2E Volcano Islands H = 02 35 29 Resolute iP 02 47 16 d
NOVEMBER 18 U. S. C. G. S. 51 1/2N, 179 1/2W Andreanof Islands, Aleutian H = 10 12 00 Horseshoe Bay eP 10 18 57 Ottawa eP 10 22 36 Resolute eP 10 19 38 ePPP 10 21 43 eS 10 26 02 Seven Falls eP 10 22 37 Victoria eP 10 18 58	NOVEMBER 19 U. S. C. G. S. Antarctic Ocean H = 02 34 15 Resolute eP' 02 54 10 ePP 02 57 26 e 03 51 16	NOVEMBER 20 U. S. C. G. S. 54N, 165W Unimak Island H = 12 40 23 Alberni eP 12 45 53 Halifax iS 12 58 59 E Horseshoe Bay eP 12 46 03 eS 12 50 20 Ottawa iP 12 49 56 d i 12 50 36 eP _C P 12 50 55 ePP 12 52 05 eS 12 57 34 ePS 12 57 56 eS _C S 12 59 40 eSS 13 01 17 e 13 02 14 eL 13 05 10
NOVEMBER 18 U. S. C. G. S. 51N, 179 1/2W Andreanof Islands, Aleutian H = 14 53 56 Resolute eP 15 01 38 e(PPP) 15 03 42	NOVEMBER 19 U. S. C. G. S. 28 1/2N, 140 1/2E Bonin Islands region H = 11 21 39 Resolute iP 11 33 00 d	Resolute eP 12 47 09.5 i 12 47 11 c e(P _C P) 12 49 58 eS 12 52 34
	NOVEMBER 19 Seven Falls eP 16 36 12 Shawinigan Falls iP 16 36 14 d	

SEISMOLOGICAL BULLETIN - 1957

Saskatoon

eP 12 47 16
eS 12 52 36
eL 12 59.0

Seven Falls

eP 12 50 05 d
eP_CP 12 51 03
ePP 12 52 15
ePPP 12 53 29
eS 12 57 48
ePS 12 58 13
eSS 13 01 39
eSSS 13 03 48

Shawinigan Falls

eP 12 50 12 d

Victoria

eP 12 46 01
e 12 46 06 c
eS 12 50 32
eL 12 52.6

NOVEMBER 21

Resolute

iP 02 01 19.5 d

NOVEMBER 23

U.S.C.G.S.

52N, 172E

Near Islands, Aleutians

H = 00 55 00

Resolute

eP 01 02 51

NOVEMBER 23

U.S.C.G.S.

53N, 167 1/2W

Fox Islands, Aleutians

H = 00 58 36

Ottawa

eP 01 08 21 c
eS 01 16 12

Resolute

iP 01 05 34.5 c
eS 01 11 06

Seven Falls

eP 01 08 24
eS 01 16 25
eS_CS 01 18 07

Shawinigan Falls

eP 01 08 27

Victoria

eP 01 04 31

NOVEMBER 24

U.S.C.G.S.

51N, 177 1/2W

Andreanof Islands,

Aleutians

H = 01 25 35

Resolute

eP 01 33 10

ePPP 01 35 17

Victoria

eP 01 31 26

NOVEMBER 24

U.S.C.G.S.

78N, 20W

Near northeast coast

of Greenland

H = 09 43 36

Resolute

eP 09 47 29 d

i 09 47 33

eS 09 50 22

NOVEMBER 24

Resolute

eP 19 04 57 d

NOVEMBER 24

Resolute

eP 21 19 17

NOVEMBER 25

Resolute

eL 00 21 07

NOVEMBER 25

U.S.C.G.S.

3N, 128E

Halmahera Island

H = 00 26 32

Resolute

eP 00 40 13 c?

NOVEMBER 25

U.S.C.G.S.

62 1/2N, 151W

Alaska

H = 04 11 09

Ottawa

eP 04 19 10 c

Resolute

iP 04 16 01 d

eS 04 20 00

Seven Falls

eP 04 19 17

Shawinigan Falls

eP 04 19 14

NOVEMBER 25

Resolute

eP 04 28 38 d

NOVEMBER 25

Horseshoe Bay

iP 04 57 02 d

Victoria

eP 04 56 51

NOVEMBER 25

U.S.C.G.S.

50 1/2N, 175 1/2W

Andreanof Islands,

Aleutians

H = 07 36 08

Resolute

eP 07 43 42

ePPP 07 45 48

DOMINION OBSERVATORIES

NOVEMBER 25

Horseshoe Bay
 iP 09 18 23.5
 iS 09 18 48.2
 Victoria
 eP 09 18 09.2
 eS 09 18 26.1

NOVEMBER 25

Resolute
 eP 09 22 44

NOVEMBER 25

U.S.C.G.S.
 44N, 130W
 Off coast of Oregon
 H = 18 55 12
 Alberni
 eP 18 56 43.8
 Horseshoe Bay
 eP 18 56 51.4
 e 18 56 53.9
 Victoria
 eP 18 56 44.6 d,S

NOVEMBER 25

U.S.C.G.S.
 44N, 129W
 Oregon aftershock
 H = 19 04 40
 Alberni
 eP 19 05 58.3
 Horseshoe Bay
 eP 19 06 09.5 d
 Victoria
 eP 19 05 59.6

NOVEMBER 25

Alberni
 eP 19 07 29.3
 Horseshoe Bay
 iP 19 07 40.8
 Victoria
 eP 19 07 31.4 d,W

NOVEMBER 25

Horseshoe Bay
 eP 19 35 17.6
 Victoria
 eP 19 35 08

NOVEMBER 25

U.S.C.G.S.
 44 1/2N, 129 1/2W
 Oregon aftershock
 H = 20 32 25
 Alberni
 eP 20 33 50.3
 Horseshoe Bay
 eP 20 34 01.0
 Victoria
 eP 20 33 53

NOVEMBER 25

Horseshoe Bay
 eP 21 18 44.5
 Victoria
 eP 21 18 33.8

NOVEMBER 25

U.S.C.G.S.
 1 1/2S, 116 1/2E
 Near east coast of
 Borneo
 H = 22 35 00
 Ottawa
 eP' 22 54 25
 Seven Falls
 eP' 22 54 24
 Shawinigan Falls
 eP' 22 54 24

NOVEMBER 26

U.S.C.G.S.
 2S, 116E
 Near east coast of
 Borneo
 H = 05 10 00
 Ottawa
 eP' 05 29 25

Resolute

eP 05 24 13
 ePP 05 28 26
 Seven Falls
 eP' 05 29 25
 ePP 05 31 58
 Shawinigan Falls
 eP' 05 29 26

NOVEMBER 26

U.S.C.G.S.
 40N, 23E
 Greece foreshock
 H = 08 15 27
 Resolute
 eP 08 25 25

NOVEMBER 26

Resolute
 eP 11 35 27 c

NOVEMBER 26

U.S.C.G.S.
 51 1/2N, 176W
 Andreanof Islands,
 Aleutians
 H = 11 35 44
 Ottawa
 eP 11 46 06
 Resolute
 eP 11 43 14 d
 e(PPP) 11 45 23
 eS 11 49 12
 Seven Falls
 eP 11 46 16
 Shawinigan Falls
 eP 11 46 12

NOVEMBER 26

U.S.C.G.S.
 40N, 23E
 Greek foreshock
 H = 11 50 07
 Resolute
 eP 12 00 06

SEISMOLOGICAL BULLETIN - 1957

NOVEMBER 26

U. S. C. G. S.
19N, 121E
Near coast of Luzon, P. I.
H = 19 07 02
Resolute
iP 19 19 32 c

NOVEMBER 27

Resolute
iP 05 35 29 d

NOVEMBER 28

U. S. C. G. S.
15S, 168 1/2E
New Hebrides
H = 20 50 10

NOVEMBER 27

Resolute
eP 14 07 45 c

Resolute
eL 21 35.2
Missed P in change
of sheets

NOVEMBER 26

U. S. C. G. S.
11 1/2N, 86 1/2W
Near coast of Nicaragua
H = 23 24 03
h = 100 km

NOVEMBER 27

U. S. C. G. S.
20S, 67 1/2W
Southern Bolivia
H = 13 56 30

NOVEMBER 29

Resolute
eP 17 22 27
e 17 25 15
e 17 27 00

Ottawa
eP 23 30 52 c

Resolute
eP 14 10 10 d

Resolute
eP 23 34 26 c

Shawinigan Falls
eP 23 31 08

NOVEMBER 28

Resolute
iP 03 19 39 c
e 03 22 32

NOVEMBER 29

U. S. C. G. S.
48 1/2S, 124 1/2E
South Indian ocean
H = 17 43 38

NOVEMBER 27

U. S. C. G. S.
39 1/2N, 22 1/2E
Near east coast of
Greece
H = 03 08 06

NOVEMBER 28

U. S. C. G. S.
8 1/2N, 126 1/2E
Near east coast of
Mindanao, P. I.
H = 05 09 35

NOVEMBER 29

U. S. C. G. S.
21S, 66W
Southern Bolivia
H = 22 19 38
h = 200 km

Ottawa
eP 03 19 10

Resolute
iP 05 22 52 c

Resolute
eP 03 18 07 d

Seven Falls
eP 03 18 44

Shawinigan Falls
eP 03 19 00

NOVEMBER 28

Resolute
eP 05 47 39

Alberni

eP 22 32 05
i 22 32 10

NOVEMBER 27

U. S. C. G. S.
7N, 73W
Northern Colombia
H = 03 22 19
h = 200 km

NOVEMBER 28

Resolute
eP 07 47 32

Halifax

iP 22 30 08 d,S
iIS 22 38 30 S,E

Resolute
esP 03 34 30

NOVEMBER 28

Resolute
eP 08 16 05

Horseshoe Bay

iP 22 32 00 d,S
i 22 32 05
iS 22 42 19

Ottawa

iP 22 30 10 d
eP_cP 22 30 42
i 22 31 13
i 22 31 40

DOMINION OBSERVATORIES

e	22 35 54	Seven Falls	Seven Falls
eS	22 38 48	iP _n	eP 22 06 12
eS _C S	22 39 46	i	eS 22 16 08
e	22 41 34	eS _n	Shawinigan Falls
eSS	22 42 54	D = 450 km	eP 22 06 26
eL	22 42.9	Shawinigan Falls	
Resolute		i(L)	06 28 53
No sheets on			
Saskatoon		NOVEMBER 30	DECEMBER 1
iP	22 31 39	U. S. C. G. S.	U. S. C. G. S.
i	22 32 32	83 1/2N, 112 1/2E	47 1/2N, 153 1/2E
iS	22 41 25	Arctic Ocean	Kurile Islands
i	22 42 41	H = 17 41 15	H = 01 00 26
i	22 43 08	Resolute	Resolute
eL	22 58.0	eP	iP 01 09 25 c
Seven Falls		eS	eS 01 16 42
iP	22 30 19 d		
i	22 30 25	NOVEMBER 30	DECEMBER 1
eP _C P	22 30 58	U. S. C. G. S.	U. S. C. G. S.
eS	22 39 03	49N, 154E	47 1/2N, 154E
e	22 39 41	Kurile Islands	Kurile Islands
e	22 40 40	H = 20 28 18	H = 01 09 00
e	22 42 44	Resolute	Resolute
eL	22 45.7	iP	iP 01 17 59
Shawinigan Falls			ePP 01 20 04
iP	22 30 16 d	NOVEMBER 30	eS 01 25 15
eP _C P	22 30 43	U. S. C. G. S.	e 01 25 24
e	22 31 06	47N, 154 1/2E	
eS	22 38 58	Kurile Islands	DECEMBER 1
Victoria		H = 21 37 11	U. S. C. G. S.
iP	22 31 58 d,S,E	Resolute	52 1/2N, 170W
i	22 32 03 d	iP	Fox Islands, Aleutians
i	22 33 04 d	eS	H = 01 38 14
eS	22 42 07		Resolute
e	22 42 15		eL 02 00 00
i	22 43 30	NOVEMBER 30	
eL	22 48.7	U. S. C. G. S.	DECEMBER 1
		47N, 154E	U. S. C. G. S.
NOVEMBER 30		Kurile Islands	47 1/2N, 153 1/2E
Ottawa		H = 21 54 10	Kurile Islands
iP ₁	06 28 05	Resolute	H = 02 12 34
i	06 28 06	iP	Resolute
iS ₁	06 28 15	eS	eL 02 32 10
D = 80 km		e(S _C S)	
Felt in Cornwall,			
Ontario			

SEISMOLOGICAL BULLETIN - 1957

DECEMBER 1		Victoria		DECEMBER 2	
U. S. C. G. S.		eP	23 33 25	Horseshoe Bay	
47N, 154E		eS	23 34 10	eP	13 46 49 c?
Kurile Islands				eP	13 46 53
H = 10 00 05				Victoria	
Resolute		DECEMBER 2		eP	13 46 48
eL	10 25 44	Alberni		Local shock	
		eP _n	00 22 37.0		
		eP ₁	00 22 41.6		
DECEMBER 1		Horseshoe Bay		DECEMBER 2	
U. S. C. G. S.		iP	00 22 50.4 c	U. S. C. G. S.	
52 1/2N, 170W		Victoria		13N, 88 1/2W	
Fox Islands, Aleutians		iP	00 22 44 c	Near coast of El	
H = 19 05 35		Local shock		Salvador	
Resolute				H = 17 41 10	
eP	19 12 41 c?			h = 100 km	
eS	19 18 33	DECEMBER 2		Resolute	
eL	19 20 18	Alberni		eP	17 51 23
		eP _n	02 56 32.4		
		iP ₁	02 56 40.2 c		
DECEMBER 1		Horseshoe Bay		DECEMBER 2	
Alberni		iP _n	02 56 46.3 c	U. S. C. G. S.	
eP _n	21 32 02.6	iP ₁	02 56 51.5	83N, 25W	
iP ₁	21 32 07.5 c	eS	02 57 37	Near northeast coast	
eS	21 32 42	Victoria		of Greenland	
Horseshoe Bay		iP	02 56 40.3 c?	H = 23 58 58	
eP	21 32 16 c?	eS	02 57 26	h = 100 km	
Victoria				Resolute	
eP	21 32 08 d?			iP	24 02 12 c
		DECEMBER 2		eS	24 04 47
		Resolute			
		eP	09 29 12 c		
DECEMBER 1				DECEMBER 3	
Alberni				U. S. C. G. S.	
eP	22 52 43.9	DECEMBER 2		51 1/2N, 178W	
Horseshoe Bay		U. S. C. G. S.		Andreanof Islands,	
eP	22 52 58	37N, 2E		Aleutians	
Victoria		Near coast of Algeria		H = 01 46 05	
eP	22 52 52	H = 12 48 54		Horseshoe Bay	
iS	22 53 38	Horseshoe Bay		iP	01 52 58 c
		eP	13 01 09 d?	Resolute	
		Resolute		eP	01 53 40
DECEMBER 1		eP	12 58 37	ePPP	01 55 45
Alberni		Victoria		eS	01 59 31
eP _n	23 33 17.7	eP	13 01 13	eL	02 08 45
iP ₁	23 33 22.8 c				
iS _n	23 34 11.2				
eS ₁	23 34 18				
Horseshoe Bay					
eP	23 33 31 c?				
eS	23 34 25				

DOMINION OBSERVATORIES

DECEMBER 3		Victoria		Saskatoon
Alberni		iP	23 38 10 d	eP 03 50 00 SW 1
eP	13 48 38			iS 04 00 00
Horseshoe Bay				iSS 04 05 23
eP	13 48 32	DECEMBER 4		iSSS 04 08 07
eS	13 48 52	U. S. C. G. S.		Seven Falls
Victoria		0, 125E		iP 03 50 35 d
eP	13 48 46.8 C _{NW}	Molucca Passage		i 03 53 35
eP ₁	13 48 51.6	H = 00 27 01		PPP 03 56 11
eS	13 49 30	Ottawa		S 04 01 18
		eP'	00 46 16 d	PS 04 02 24
		Resolute		SS 04 07 24
DECEMBER 3		eP	00 40 57.5 c	e 04 10 13
Resolute		iP	00 40 58 d	Shawinigan Falls
i(P)	20 16 21 d	PP	00 45 11	iP 03 50 (43) c
		Seven Falls		PP 03 54 (12)
		eP'	00 46 15 d	e 03 58 (49)
DECEMBER 3		Shawinigan Falls		e 04 00 (44)
Resolute		iP'	00 46 (15) d	S 04 01 (41)
eP	21 46 49 c			PS 04 02 (42)
				PPS 04 03 (31)
				SS 04 07 (39)
DECEMBER 3		DECEMBER 4		Victoria
U. S. C. G. S.		U. S. C. G. S.		eP 03 49 57 c 78 78
52N, 169W		45 1/2N, 99 1/2E		iP 03 50 01 d NW
Fox Islands, Aleutians		Outer Mongolia		iS 04 00 09
H = 21 46 18		H = 03 37 45		
Ottawa		Alberni		
eP	21 56 23 c	eP	03 55 (19) d 7N 7W?	
Resolute		Halifax		DECEMBER 4
eP	21 53 24 d	iP	03 50 49 c	Alberni
(P _c P)	21 55 48	e	03 51 02	eP 04 04 46
eL	22 01 05	i(SKS)	04 01 01	Seven Falls
Shawinigan Falls		i	04 01 26	eP 04 05 35
eP	21 56 (27)	i	04 01 45	Victoria
		Horseshoe Bay		iP 04 04 53 c
		eP	c?N?W?	
		Ottawa		
DECEMBER 3		eP	03 50 46 d	DECEMBER 4
U. S. C. G. S.		PP	03 54 20	U. S. C. G. S.
51N, 178 1/2W		PPP	03 56 26	Outer Mongolia
Andreanof Islands,		e	03 58 24	H = 05 00 48
Aleutians		e	04 00 40	Resolute
H = 23 31 16		s	01 28	eP 05 10 57.5 c
Alberni		PS	02 40	iP 05 10 58 d
iP	23 38 00 d	PPS	03 26	
Resolute		SS	07 26	
eP	23 38 50	SSS	10 56	
PP	23 40 55	Resolute		
e(S)	23 44 40	eP	03 47 52 c	
		iP	03 47 52.5 d	

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<p>DECEMBER 4 U. S. C. G. S. 45 1/2N, 99E Outer Mongolia aftershock H = 09 09 10 Resolute iP 09 19 27 c</p>	<p>DECEMBER 4 Resolute i 23 12 16 e 23 12 26.5 Probably Mongolia aftershock</p>	<p>DECEMBER 5 U. S. C. G. S. 72N, 6E Jan Mayan Island H = 14 04 30 Resolute eP 14 09 59 c eS 14 12 51 eL 14 17 40</p>
<p>DECEMBER 4 U. S. C. G. S. 45 1/2N, 100 1/2E Outer Mongolia aftershock H = 11 19 30 Resolute eP 11 29 37</p>	<p>DECEMBER 4 U. S. C. G. S. 45N, 99E Outer Mongolia aftershock H = 23 41 57 Resolute eP 23 52 06</p>	<p>DECEMBER 5 U. S. C. G. S. 45N, 100E Outer Mongolia aftershock H = 18 09 32 Resolute iP 18 19 40 c</p>
<p>DECEMBER 4 U. S. C. G. S. 45N, 101 1/2E Outer Mongolia H = 13 20 08 Resolute eP 13 30 17.5 c iP 13 30 18 d eS 13 38 38 eL 13 54 00</p>	<p>DECEMBER 5 U. S. C. G. S. 41N, 142 1/2E Near east coast Hokkaido Japan H = 07 40 09 h = 100 km Resolute eP 07 49 59.5c iP 07 50 00 d</p>	<p>DECEMBER 6 Resolute iP 02 28 15 c</p>
<p>DECEMBER 4 Resolute iP 18 55 21 c</p>	<p>DECEMBER 5 Resolute e 08 11 38 i 08 11 42 i 08 11 43 i 08 11 47 Local shock</p>	<p>DECEMBER 6 U. S. C. G. S. 45N, 150 1/2E Kurile Islands H = 03 49 33 h = 60 km Resolute iP 03 58 46 c</p>
<p>DECEMBER 4 U. S. C. G. S. 45N, 99 1/2E Outer Mongolia aftershock H = 22 16 59 Resolute iP 22 27 08 c eS 22 35 19 eL 22 54 42</p>	<p>DECEMBER 5 Resolute iP 08 27 48 c</p>	<p>DECEMBER 6 U. S. C. G. S. 44 1/2N, 150 1/2E Kurile Islands H = 08 36 21 Ottawa eP 08 48 37</p>

DOMINION OBSERVATORIES

Resolute		Resolute		Resolute	
iP	08 45 40 c	iP	08 34 06 c	eP	22 29 09 c?
PcP	08 46 47	eS	08 42 14	eS	22 38 00
eL	09 00	eL	08 49 30	SS	22 42 00
Shawinigan Falls		Seven Falls		eL	22 49 00
eP	08 48 (38)	eP	08 31 08	Seven Falls	
		Shawinigan Falls		eP	22 25 45
		eP	08 30 (56)	Shawinigan Falls	
DECEMBER 6		Victoria		iP	22 25 (37) c
Resolute		eP	08 31 51 c?N?E?		
eP	23 06 34				
e	23 16 08				
				DECEMBER 8	
				Resolute	
				eP	04 50 38 d?
DECEMBER 7		DECEMBER 7			
U. S. C. G. S.		U. S. C. G. S.			
6 1/2S, 123 1/2E		43 1/2N, 100E			
Flores Sea		Outer Mongolia			
H = 03 16 43		aftershock			
h = 550 km		H = 14 11 15			
Ottawa		Horseshoe Bay			
eP'	03 35 03 c	eP	14 23 31		
Resolute		Resolute			
eP	03 30 11	iP	14 21 34 c		
eP'	03 34 11	Victoria			
sSP	03 47 20	eP	14 23 28		
SS	03 49 30				
Seven Falls		DECEMBER 7			
eP'	03 34 57	Resolute			
Shawinigan Falls		eP	17 56 53		
eP'	03 35 (08)				
DECEMBER 7		DECEMBER 7			
Alberni		U. S. C. G. S.			
iP	05 15 53.0	45N, 150 1/2E			
iS	05 16 02.5	Kurile Islands			
		H = 22 05 00			
		Resolute			
		eP	22 14 18		
DECEMBER 7		DECEMBER 7			
U. S. C. G. S.		U. S. C. G. S.			
15 1/2N, 92W		13 1/2N, 82W			
Guatemala		Off east coast of			
H = 08 24 03		Nicaragua			
Horseshoe Bay		H = 22 18 49			
iP	08 32 00 c	Ottawa			
Ottawa		eP	22 25 23 c		
eP	08 30 39 d				
				DECEMBER 8	
				U. S. C. G. S.	
				34 1/2N, 142E	
				Off east coast Honshu,	
				Japan	
				H = 14 41 34	
				Horseshoe Bay	
				eP	14 52 14
				Resolute	
				eP	14 52 11
				Victoria	
				eP	14 52 31

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DECEMBER 8	DECEMBER 9	DECEMBER 10
U. S. C. G. S.	U. S. C. G. S.	Resolute
45N, 99E	65 1/2N, 133W	eP 08 19 36
Outer Mongolia	Yukon	eS 08 22 25
aftershock	H = 22 07 43	
H = 15 29 15	Alberni	
Resolute	eP 22 16 22	DECEMBER 10
eP 15 39 22	eP 22 16 40	U. S. C. G. S.
	eS 22 21 28	6S, 154 1/2E
	Halifax	Solomon Islands
DECEMBER 8	eL 22 29 50	H = 14 35 57
U. S. C. G. S.	i 22 30 08	Alberni
Outer Mongolia	Horseshoe Bay	eP 14 48 46
aftershock	eP 22 11 40 d?N	Halifax
H = 16 26 33	eS 22 16 29	e(P') 14 55 10
Resolute	eS 22 16 33	ePKS 14 58 33
eP 16 36 46 d	Lillooet	ePS 15 07 14
	eP 22 (11) (41)	Horseshoe Bay
	Ottawa	eP 14 48 58
DECEMBER 8	iP 22 14 50 c	eS 14 59 44
U. S. C. G. S.	S _C S 22 24 38	Ottawa
44 1/2N, 100E	L 22 26 40	iP' 14 54 53 d
Outer Mongolia	Resolute	PP 14 56 32
aftershock	iP 22 11 21 c	SKS 15 02 07
H = 21 28 45	eS 22 14 00	SKKS 15 03 30
Resolute	eS 22 14 11	PS 15 06 09
iP 21 38 56 c	Saskatoon	SS 15 13 06
	eP 22 15 11	SSS 15 18 08
	eS 22 17 50	L 15 31 29
DECEMBER 9	i 22 18 30	Resolute
U. S. C. G. S.	Seven Falls	eP 14 49 51
18N, 122 1/2E	iP 22 14 58	PP 14 54 06
Near north coast	i 22 22 51	i 15 03 07
Luzon, Phillipines	L 22 26 58	PSPS 15 09 12
H = 01 16 09	Shawinigan Falls	eL 15 17 15
Resolute	iP 22 14 (53) c	Seven Falls
eP 01 28 44 d	PPP 22 16 (52)	iP' 14 54 57 d
	S 22 20 (35)	PP 14 56 44
	i 22 22 (35)	SKS 15 02 11
DECEMBER 9	S _C S 22 24 (57)	SKKS 15 03 48
U. S. C. G. S.	e 22 25 (34)	e 15 05 26
Hew Hebrides Island	e 22 26 (35)	SS 15 13 19
H = 15 49 34	L 22 29 (22)	SSS 15 17 51
Seven Falls	Victoria	Shawinigan Falls
eP' 16 08 33	iP 22 11 50 c,S	iP' 14 54 (56) d
	iP 22 11 52 NE	Victoria
	iS 22 16 52	eP 14 48 59 c
		eS 14 59 40
		iSS 15 06 16

DOMINION OBSERVATORIES

DECEMBER 10

Resolute
 eP 19 39 45
 i 19 40 18
 i 19 42 14

DECEMBER 10

Seven Falls
 eP 21 16 52

DECEMBER 11

Alberni
 iP 22 47 38.7
 iS 22 47 49.4
 Horseshoe Bay
 iP 22 47 31.7 c
 Local shock

DECEMBER 11

Alberni
 iP 23 05 39.3
 iS 23 05 48.6
 Horseshoe Bay
 iP 23 05 31.5 c
 Local shock

DECEMBER 12

Victoria
 iP 00 05 42 dS?
 Local shock

DECEMBER 12

U. S. C. G. S.
 14 1/2S, 167 1/2E
 New Hebrides Islands
 H = 09 47 02
 Seven Falls
 eP' 10 06 01 d

DECEMBER 12

Resolute
 iP 14 41 07 d

DECEMBER 12

Resolute
 eP 16 20 21
 e 16 23 00

DECEMBER 12

U. S. C. G. S.
 13 1/2S, 167E
 New Hebrides Islands
 H = 18 38 19
 Horseshoe Bay
 eP 18 51 12
 Resolute
 eSS 19 11 36
 Seven Falls
 eP' 18 57 14

DECEMBER 13

U. S. C. G. S.
 7N, 76W
 Colombia
 H = 01 31 57
 h = 100 km
 Alberni
 iP 01 41 48 CNW
 Halifax
 eP 01 39 24
 Horseshoe Bay
 iP 01 41 42 CNW
 Lillooet
 iP 01 41 32 c
 Ottawa
 iP 01 39 16 c
 PP 01 40 42
 i 01 40 51
 P_cP 01 41 27
 S 01 45 12
 e 01 46 08
 SS 01 48 07
 S_cS 01 49 30
 Resolute
 iP 01 42 54 c
 iPP 01 45 33
 eS 01 51 52
 Saskatoon
 eP 01 40 57
 eS 01 48 12

Seven Falls

iP 01 39 33 c
 S 01 45 53
 SS 01 48 47

Shawinigan Falls

iP 01 39 (27) c
 i 01 39 (41)
 i 01 40 (51)
 P_cP 01 41 (32)

Victoria

iP 01 41 39 CNW

DECEMBER 13

U. S. C. G. S.
 34 1/2N, 48E
 Iran
 H = 01 44 59
 Alberni
 eP 02 03 32 d?
 Halifax
 iP 01 57 10 c
 Horseshoe Bay
 eP 01 58 30 d
 iS 02 09 06
 Lillooet
 iP 01 58 16 d
 Ottawa
 eP 01 57 40 c
 PP 02 00 57
 S 02 08 04
 PS 02 09 16

Resolute

iP 01 56 03 d
 iP 01 56 04 c
 iS 02 05 10
 iS_cS 02 05 58
 SS 02 09 30
 eL 02 13

Saskatoon

eP 01 58 05
 iSKS 02 08 34
 iS 02 09 00
 IPS 02 16 09

Seven Falls

eP 01 57 21 c
 PP 02 00 30
 S 02 07 36

SEISMOLOGICAL BULLETIN - 1957

Shawinigan Falls		DECEMBER 13	S	17 40 43
iP	01 57 (28) c	U. S. C. G. S.	S _c S	17 45 19
Victoria		150 miles off south	e	17 46 37
iP	01 58 35 d?	coast of Nicaragua	i	17 46 50
iSKS	02 09 12	H = 23 37 45	L	17 47
eS	02 09 53	Ottawa	Shawinigan Falls	
ePPS	02 11 20	eP	eP	17 34 (48) c
eL	02 26	Resolute	PP	17 36 (08)
		iP	e	17 36 (34)
		Shawinigan Falls	S	17 40 (25)
		eP	e	17 44 (41)
			S _c S	17 45 (01)
			e	17 46 (07)
DECEMBER 13		DECEMBER 16	Victoria	
U. S. C. G. S.		U. S. C. G. S.	iP	17 28 30 cSE
6 1/2S, 155 1/2E		50N, 127W		
Solomon Islands,		Vancouver Island		
aftershock		H = 17 27 47	DECEMBER 16	
H = 20 03 58		Alberni	Seven Falls	
Ottawa		iP	eP	19 14 31
iP'	20 22 54 d	Halifax	e	19 14 38
Seven Falls		iP	i	19 15 12
eP'	20 22 58 d	eS		
		eSS		
DECEMBER 13		Lillooet	DECEMBER 16	
U. S. C. G. S.		iP	Seven Falls	
52 1/2N, 170W		Ottawa	iP ₁	21 11 29
Fox Islands, Aleutians		eP	iS ₁	21 11 35
H = 20 26 22		pP	D = 35 km	
Halifax		sP		
eS	20 45 56 N	PP		
Ottawa		P _c P	DECEMBER 16	
eP	20 36 15 d	S	U. S. C. G. S.	
S	20 44 16	sS	34N, 48E	
Resolute		S _c S	Iran aftershock	
eP	20 33 29 d	e	H = 23 05 28	
P _c P	20 35 52	L	Resolute	
eS	20 39 20	Resolute	eP	23 16 33
eL	20 42	iP	PPP	23 20 53
Saskatoon		eS	eL	23 39
iP	20 33 38 NE	eS		
eS	20 39 15	eL		
eL	20 34	Saskatoon	DECEMBER 17	
Seven Falls		iP	U. S. C. G. S.	
iP	20 36 25 d	eS	53 1/2N, 162E	
S	20 44 34	eL	Near east coast of	
Shawinigan Falls		Seven Falls	Kamchatka	
eP	20 36 (21)	eP	H = 05 10 11	
		PP		

DOMINION OBSERVATORIES

Lillooet		Alberni		i	14 10 (03)
eP	05 18 30	eP	14 02 49	PP	14 10 (19)
Ottawa		eP	14 08 25	i	14 10 (29)
eP	05 21 21	eS	14 13 14	PKKP	14 19 (15)
PP	05 24 01	Halifax		PS	14 19 (44)
S	05 30 28	iP'	14 09 10	PPS	14 21 (00)
Resolute		i	14 09 44	Victoria	
iP	05 18 08 c	i	14 09 54	eP	14 02 50 c?
eS	05 24 32	iPP	14 11 06	iP	14 03 25
eL	05 27	e	14 11 38	iS	14 13 09
Saskatoon		ePKS	14 12 24		
eP	05 19 15	i	14 26 04		
eS	05 26 26	Horseshoe Bay		DECEMBER 17	
eL	05 31	eP	14 03 52 c?	Resolute	
Seven Falls		eP	14 04 29	eP	14 20 00.5 c
eP	05 21 26	Lillooet		iP	14 20 01 d
S	05 31 31	eP	14 02 53 c	e	14 28 03
PPS	05 31 31	iP	14 03 35		
SS	05 35 19	Ottawa		DECEMBER 17	
e	05 36 42	iP'	14 08 51 d	Seven Falls	
SSS	05 38 31	i	14 09 04	eP	17 11 03
L	05 39 33	i	14 09 28		
Shawinigan Falls		PP	14 09 53	DECEMBER 18	
eP	05 21 (20)	i	14 10 41	U. S. C. G. S.	
PP	05 23 (57)	i	14 10 45	11N, 63 1/2W	
Victoria		PPP	14 12 27	H = 02 11 40	
eP	05 18 38	SKS	14 16 33	Resolute	
eL	05 33	PKKP	14 19 22	eP	02 22 27
		PS	14 19 43	eL	02 40
		i	14 19 50	Seven Falls	
DECEMBER 17		PPS	14 20 25	eP	02 18 46
Resolute		Resolute		Shawinigan Falls	
eP _n	06 57 07	eP	14 04 12 c	eP	02 18 (46)
e	06 57 10	e	14 07 04		
eS ₁ P ₁	06 57 13	PP	14 08 27	DECEMBER 18	
e	06 57 15	e	14 12 26	Alberni	
iS _n	06 57 24	SKS	14 14 40	iP	07 46 39.0 d?
Local shock		S	14 15 47	iS	07 46 57.0
		PS	14 17 30		
DECEMBER 17		Saskatoon			
Resolute		iP	14 03 45 NE		
eP	08 38 03		NW		
		ePP	14 07 30	DECEMBER 18	
		eS	14 14 04	Victoria	
		eSS	14 31.0	iP	09 35 55.4 d
DECEMBER 17		Shawinigan Falls		iS	09 36 07.9
U. S. C. G. S.		iP'	14 08 (56) d		
12 1/2S, 166 1/2E		i	14 09 (32)		
Santa Cruz Islands		i	14 09 (42)		
H = 13 50 12					
h = 100 km					

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DECEMBER 18

Resolute
eP 20 50 47
e 20 52 17
e 21 04 15
eL 21 32

DECEMBER 18

U. S. C. G. S.
60S, 28W
Sandwich Islands
H = 20 44 53
Ottawa
eP' 21 04 13
Shawinigan Falls
eP' 21 04 (15)

DECEMBER 19

U. S. C. G. S.
Nicaragua
H = 04 11 13
Ottawa
eP 04 18 05
Resolute
eP 04 21 30
iP 04 21 37 d
eL 04 46
Seven Falls
eP 04 18 30
Shawinigan Falls
eP 04 18 (22)

DECEMBER 19

U. S. C. G. S.
Kamchatka
H = 12 03 55
Resolute
eP 12 11 51
eP 12 12 03

DECEMBER 19

U. S. C. G. S.
30 1/2N, 142E
South of Honshu, Japan
H = 19 01 08

Resolute

eP 19 12 15 c

DECEMBER 20

U. S. C. G. S.
Andreanof Islands,
Aleutians
H = 10 16 20
Alberni
eP 10 23 05
Horseshoe Bay
eP 10 23 12 c?

DECEMBER 20

U. S. C. G. S.
30 1/2S, 71W
Central Chile
H = 11 18 42
Ottawa

eP 11 30 43
S 11 40 16
Resolute
eS 11 45 00
PS 11 46 44
SS 11 52 31
e 12 14 18
e 12 17 40
Seven Falls
eP 11 30 40
Shawinigan Falls
eP 11 30 (37)

DECEMBER 20

Resolute
eP 12 56 04

DECEMBER 20

Resolute
eP 20 21 46

DECEMBER 21

U. S. C. G. S.
36N, 2E
Algeria
H = 18 53 27

Resolute

eP 19 02 55
eL 19 46 (-)

DECEMBER 22

Resolute
eP 00 41 30 c?

DECEMBER 22

Alberni
eP 09 55 22
eS 09 55 51
Horseshoe Bay
eP 09 55 11.9
eS 09 55 33
Victoria
eP 09 55 01.9
eS 09 55 15

DECEMBER 23

U. S. C. G. S.
35N, 36 1/2W
Atlantic Ocean
H = 12 34 03
Halifax
eP 12 39 12
e 12 39 18
iS 12 43 22
Resolute
eP 12 42 43
iP 12 42 46 c
eS 12 49 46
eL 12 53
Seven Falls
eP 12 40 13
S 12 45 07
SSS 12 47 15
L 12 48 53
Shawinigan Falls
eP 12 40 (16)

DECEMBER 23

U. S. C. G. S.
12 1/2N, 86 1/2W
Nicaragua
H = 13 19 28
h = 150 km

DOMINION OBSERVATORIES

Ottawa		DECEMBER 25	DECEMBER 25
iP	13 26 07 c	U. S. C. G. S.	U. S. C. G. S.
Resolute		53 1/2N, 162E	10 1/2N, 62 1/2W
iP	13 29 41 c	Near east coast of	Venezuela
S _c S	13 38 50	Kamchatka	H = 16 26 01
Seven Falls		H = 02 09 20	Alberni
eP	13 26 32	Resolute	eP 16 36 37
Shawinigan Falls		iP 02 17 19 c	Banff
iP	13 26 (25) c	eL 02 27 20	eP 16 36 06
			Horseshoe Bay
			eP 16 36 30
DECEMBER 23		DECEMBER 25	Ottawa
Resolute		Resolute	eP 16 33 10 d
eP	19 42 15	eP ₁ 04 14 18	Resolute
		e 04 14 20	eP 16 36 50
		iS ₁ 04 14 24	eP 16 36 52 d
DECEMBER 24			eS 16 45 26
Resolute		DECEMBER 25	e 16 45 35
iP	03 38 03.5 c	Resolute	eL 16 53 17
		eP 05 31 11.5	Seven Falls
		i 05 31 13.5	eP 16 33 14 d
DECEMBER 24		iS ₁ 05 31 17	Shawinigan Falls
Resolute			eP 16 33 (15) d
iP ₁	04 30 10.5		Victoria
iS ₁	04 30 17.0	DECEMBER 25	eP 16 36 29
i	04 30 22.5	Resolute	
		eP 10 13 11	DECEMBER 26
DECEMBER 24			Resolute
U. S. C. G. S.			eP 01 11 24
Northern Chile		DECEMBER 25	
H = 15 40 04		U. S. C. G. S.	
Seven Falls		55N, 161E	DECEMBER 26
iP	15 51 21 c	Near east coast of	Resolute
		Kamchatka	eP 01 27 46.5
		H = 13 42 12	eS 01 28 06
DECEMBER 24		Ottawa	
Ottawa		iP 13 53 19 d	
iP ₁	16 12 42	Resolute	DECEMBER 26
eS ₁	16 12 50	eP 13 50 02 c	U. S. C. G. S.
i	16 12 55	iP 13 50 02.5 d	53 1/2N, 162E
		iPP 13 51 58	Near east coast of
		Seven Falls	Kamchatka
DECEMBER 24		eP 13 53 21	H = 06 42 03
Resolute			Resolute
iP	18 09 34 d		eP 06 50 01 c?
			eS 06 56 46
			eL 07 09 10

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DECEMBER 26		DECEMBER 27		DECEMBER 27
U. S. C. G. S.		U. S. C. G. S.		U. S. C. G. S.
41 1/2N, 127W		36 1/2N, 141E		53 1/2N, 162E
Off coast of		Near east coast		Off east coast of
California		Honshu, Japan		Kamchatka
H = 12 20 35		H = 01 28 02		H = 15 00 45
Alberni		Resolute		Resolute
eP 12 22 35		eP 01 38 36 d?		eP 15 08 43 d?
Banff		S _C S 01 48 33		eS 15 15 15
eP 12 23 46				eL 15 18 24
Halifax		DECEMBER 27		
eP 12 28 29		Resolute		DECEMBER 28
Horseshoe Bay		eP 05 13 55		Resolute
eP 12 22 41 c?		e 05 21 30		eP 06 55 10
Ottawa		e 05 22 32		
eP 12 28 07 c		DECEMBER 27		DECEMBER 28
i 12 28 12		Resolute		U. S. C. G. S.
S 12 33 38		eP 07 52 51		18S, 64 1/2W
Resolute		e 07 58 06		Bolivia
eP 12 27 43				H = 14 36 40
eS 12 33 30		DECEMBER 27		Banff
Seven Falls		Resolute		eP 14 49 01
iP 12 28 14 d		eP 08 38 45 d		iP 14 49 05
i 12 28 19				Halifax
S 12 34 24		DECEMBER 27		iP 14 47 04 d
Shawinigan Falls		Resolute		Ottawa
eP 12 28 (07) c		iP 08 38 45 d		eP 14 47 15 d
i 12 28 (13)				Resolute
Victoria		DECEMBER 27		eP 14 50 01
eP 12 22 29 c?N?W?		Resolute		e 14 52 31
		eP 09 04 42		PP 14 53 53
DECEMBER 26				PPP 14 56 07
Banff		DECEMBER 27		eS 15 01 16
eP 12 29 20		Resolute		SS 15 07 36
Horseshoe Bay		eP 10 03 30		eL 15 21
eP 12 28 42 c?				Seven Falls
				iP 14 47 22 c
DECEMBER 26				i 14 47 26
Resolute		DECEMBER 27		i 14 47 41
e 12 36 43		Resolute		i 14 53 46
i 12 38 16 c		iP 13 12 52 c		e 14 54 10
				S 14 56 04
DECEMBER 26				Shawinigan Falls
Resolute				eP 14 47 (22)
eP 18 56 13				
eL 19 15 50				

DOMINION OBSERVATORIES

DECEMBER 28
 U. S. C. G. S.
 Southern Bolivia
 H = 15 29 27
 Seven Falls
 eP 15 40 15
 Shawinigan Falls
 eP 15 40 (19)

DECEMBER 28
 Victoria
 eP 18 49 42

DECEMBER 28
 U. S. C. G. S.
 16S, 172W
 Tongo Islands
 H = 19 01 22
 Horseshoe Bay
 eP 18 13 20
 Resolute
 eP 19 15 19 d?
 eS 19 27 03
 SS 19 34 20
 eL 19 43
 Victoria
 eP 19 13 23

DECEMBER 29
 Victoria
 eP 03 43 52
 Local shock

DECEMBER 29
 U. S. C. G. S.
 13N, 144E
 Mariana Islands
 H = 14 11 40
 Resolute
 eP 14 24 16
 Seven Falls
 eP' 14 30 18

DECEMBER 29
 U. S. C. G. S.
 Coquimbo Province,
 Chile
 H = 15 12 08
 Seven Falls
 iP 15 23 58 c
 Shawinigan Falls
 eP 15 23 (56) c

DECEMBER 29
 Resolute
 iP₁ 23 58 43.5
 iS₁ 23 58 53

DECEMBER 30
 U. S. C. G. S.
 53 1/2N, 166W
 Fox Islands, Aleutians
 Resolute
 eP 12 52 52.7 c
 iP 12 52 53 d
 P_cP 12 55 30
 eS 12 58 30
 e 12 58 50
 eL 13 01 25
 S_cS 13 03 27
 Seven Falls
 eP 12 55 47
 Shawinigan Falls
 eP 12 55 (47)

DECEMBER 30
 U. S. C. G. S.
 10 1/2N, 62W
 Near coast of Venezuela
 H = 13 28 51
 Resolute
 eP 13 39 45 d?
 eL 14 01
 Shawinigan Falls
 eP 13 36 (07)

DECEMBER 30
 U. S. C. G. S.
 19N, 120 1/2E
 Near north coast
 Luzon, Phillipine
 Islands
 H = 13 58 26
 Resolute
 iP 14 11 04 c
 e 14 19 18
 eS 14 21 23
 SS 14 27 07
 eL 14 44 30

DECEMBER 30
 U. S. C. G. S.
 53N, 164W
 South of Unimak
 Island
 H = 18 38 00
 Resolute
 eP 18 44 46
 eS 18 50 46
 eL 18 53 23
 S_cS 18 55 25
 eL 18 57 31

DECEMBER 30
 Resolute
 eP 18 54 15
 e 18 58 07

DECEMBER 31
 Resolute
 eP 00 29 23
 e 00 33 38
 e 00 35 36
 e 00 38 18
 DECEMBER 31
 Resolute
 eP 07 03 17 d

SEISMOLOGICAL BULLETIN - 1957

DECEMBER 31		Halifax		Resolute	
U. S. C. G. S.		iP'	14 47 54 c	P'	14 47 23
58N, 32W		Resolute		i	14 47 38
North Atlantic Ocean		P'	14 47 23	e	14 50 10
H = 10 21 35		i	14 47 38	e	14 51 06
Ottawa		e	14 50 10	(SKSP)	14 59 18
eP	10 27 42	e	14 51 06	(PSPS)	15 08 15
Resolute		(SKSP)	14 59 18	SSS	15 13 00
eP	10 27 30 d	(PSPS)	15 08 15	Seven Falls	
eS	10 32 16	SSS	15 13 00	eP'	14 47 42
eL	10 33	Seven Falls		Shawinigan Falls	
Seven Falls		eP'	14 47 42	eP'	14 47 (34)
eP	10 27 10 d	Shawinigan Falls			
Shawinigan Falls		eP'	14 47 (34)		
eP	10 27 (24) d				
Victoria		DECEMBER 31		DECEMBER 31	
eL	10 50.6	Resolute		Resolute	
		eP	21 05 34	eP	21 05 34
DECEMBER 31					
U. S. C. G. S.		DECEMBER 31		DECEMBER 31	
25N, 46W		U. S. C. G. S.		U. S. C. G. S.	
North Atlantic Ocean		45S, 96 1/2E		45S, 96 1/2E	
H = 13 02 20		South Indian Ocean		South Indian Ocean	
Ottawa		H = 21 16 03		H = 21 16 03	
eP	13 08 46 c			Resolute	
Resolute				iP	21 35 54 d
eP	13 12 00	eL	13 29 -	S ₁ '	21 51 28
eS	13 19 42	Seven Falls		PSPS	21 59 35
(S _C S)	13 22 20	eP	13 08 31 d	SSS	22 04 40
SS	13 24 00	Shawinigan Falls		e	22 29 05
eL	13 29	eP	13 08 (37) c	e	22 35 34
Seven Falls					
eP	13 08 31 d	DECEMBER 31			
Shawinigan Falls		Resolute			
eP	13 08 (37) c	eP	14 28 29 c		
DECEMBER 31					
Resolute		DECEMBER 31			
eP	14 28 29 c	U. S. C. G. S.			
		45S, 165 1/2E			
DECEMBER 31		Off coast of South Island			
U. S. C. G. S.		New Zealand			
45S, 165 1/2E		H = 14 28 15			
Off coast of South		Halifax			
Island, New Zealand		iP'	14 47 54 c		
H = 14 28 15					

I.G.Y. MICROSEISMIC BULLETIN

OCTOBER - DECEMBER - 1957

NOTES

Four stations only have been read, an Atlantic Station - Halifax, an inland station - Ottawa, a Pacific station - Victoria, and an Arctic station - Resolute. The following instruments are used:

Halifax	- Willmore Z	$T_s = 1$	sec.	$T_g = 2.0$	sec.
Ottawa	- Benioff Z	$T_s = 1$	sec.	$T_g = 20$	sec.
Victoria	- Benioff Z	$T_s = 1$	sec.	$T_g = 75$	sec.
Resolute	- Columbia Z	$T_s = 15.9$	sec.	$T_g = 9.7$	sec.

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		October 1	0	...			3	0.5	4.5	2	0.5	3.8	0,0	
	6	...			3	0.5	4.5	2	0.5	3.8	0,0			
	12	...			3	0.5	4.5	2	0.8	4.4	0,0			
	18	...			3	0.5	4.5	2	0.7	5.0	0,0			
2	0	...			3	0.4	4.0	2	0.5	4.1	0,0			
	6	...			3	0.4	4.0	2	0.3	3.0	0,0			
	12	...			3	0.4	4.0	2	0.3	3.2	0,0			
	18	...			3	0.3	4.0	2	0.4	4.2	0,0			
3	0	...			3	0.3	4.0	2	0.3	3.6	3	0.6	4.0	
	6	...			3	0.3	4.0	2	0.5	4.3	3	0.6	5.0	
	12	...			3	0.4	4.0	2	0.4	2.8	3	0.6	4.6	
	18	1	0.8	4.0	3	0.5	4.0	2	0.6	3.7	3	0.9	5.0	
4	0	1	1.0	4.2	3	0.5	4.0	2	0.6	3.5	3	0.8	5.5	
	6			
	12	1	0.9	4.0	3	0.5	4.1	2	0.4	3.3	0,0			Earthquake
	18	3	0.9	3.5	3	0.7	4.6	2	0.2	2.8	0,0			
5	0	3	1.2	4.0	3	1.2	4.6	...			0,0			
	6	3	1.0	4.0	3	1.0	4.9	2	0.2	3.1	0,0			
	12	3	0.3	2.5	3	1.3	5.0	2	0.3	3.5	0,0			
	18	3	0.2	2.1	1	0.8	5.0	2	0.3	3.0	0,0			
6	0	3	1.2	4.5	1	0.8	5.0	2	0.5	3.4	0,0			
	6	3	1.3	5.2	1	0.7	4.7	2	0.5	3.4	0,0			
	12	3	1.0	4.9	3	0.9	5.0	2	0.3	3.5	0,0			
	18	3	0.4	3.3	3	0.8	5.0	1	0.5	3.6	0,0			
7	0	3	1.0	4.6	3	0.7	4.2	1	0.5	3.9	0,0			
	6	3	0.7	4.1	3	0.7	4.0	1	0.6	4.0	0,0			
	12	3	0.3	2.6	3	0.7	4.0	1	0.2	3.1	0,0			

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		October 7	18	2	0.2	2.1	3	0.5	4.0	1	0.2	3.6	...	
8	0	3	0.2	2.0	3	0.5	4.0	2	0.3	4.1	0,0			
	6	3	0.2	2.2	3	0.5	4.0	2	0.2	3.2	0,0			
	12	3	0.2	2.0	3	0.4	3.9	2	0.1	3.0	0,0			
	18	3	0.2	2.0	3	0.4	3.9	2	0.1	2.6	...			
9	0	3	0.3	2.3	3	0.4	3.9	2	0.1	2.8	0,0			
	6	1	0.4	2.7	3	0.4	3.9	2	0.1	3.1	0,0			
	12	1	0.6	2.9	3	0.4	3.9	2	0.1	2.9	0,0			
	18	1	0.7	3.1	3	0.3	3.9	2	0.1	2.6	3	0.6	5.0	
10	0	1	0.5	2.8	3	0.3	3.8	2	0.1	2.7	3	0.6	4.7	
	6	1	0.5	3.0	3	0.3	3.8	2	0.1	2.7	3	0.6	5.0	
	12	3	0.5	3.0	3	0.3	3.8	2	0.1	2.7	0,0			
	18	3	0.4	2.9	3	0.3	3.8	0,0			0,0			
11	0	3	0.4	2.9	3	0.3	3.8	0,0			0,0			
	6	3	0.4	2.9	3	0.3	3.8	2	0.1	2.6	0,0			
	12	...			3	0.3	3.8	2	0.1	2.8	0,0			
	18	3	0.5	3.2	3	0.3	3.8	2	0.2	3.5	0,0			
12	0	3	0.1	2.0	3	0.3	4.0	2	0.2	3.3	0,0			
	6	3	0.4	2.6	3	0.3	4.0	2	0.3	3.6	0,0			
	12	...			3	0.2	3.0	2	0.3	3.6	3	0.6	5.0	Halifax traces too faint
	18	...			3	0.2	3.5	2	0.2	3.6	3	0.5	4.0	
13	0	...			3	0.3	3.5	2	0.2	3.5	3	1.2	4.5	
	6	...			3	0.5	4.0	2	0.3	4.1	3	1.6	5.4	
	12	...			3	0.5	4.0	2	0.2	3.8	3	1.2	4.9	
	18	...			3	0.3	4.0	2	0.3	4.0	3	1.5	5.1	
14	0	...			3	0.3	4.0	2	0.2	3.8	3	0.7	4.5	
	6	...			3	0.4	4.0	2	0.2	3.8	3	0.7	4.5	

I. G. Y. MICROSEISMIC BULLETIN

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		October 14	12	...			3	0.4	4.0	2	0.2	4.0	3	
	18	...			3	0.4	4.1	2	0.2	3.6	0,0			
15	0	...			3	0.9	6.0	2	0.6	5.0	3	0.6	5.0	
	6	...			3	1.2	6.0	2	0.4	4.1	0,0			
	12	...			3	1.2	6.0	2	0.4	4.7	0,0			
	18	3	0.2	2.2	3	1.2	6.0	2	0.3	3.8	0,0			
16	0	3	1.1	5.0	3	1.2	6.0	2	0.2	3.7	0,0			
	6	3	1.1	5.0	3	1.2	6.0	...			0,0			Local disturbances - Resolute
	12	3	1.1	5.0	3	1.2	6.0	2	0.3	4.2	0,0			
	18	3	1.1	5.0	3	1.0	6.0	1	0.1	3.9	0,0			
17	0	3	0.7	4.5	3	0.8	5.5	1	0.1	3.6	...			
	6	3	0.9	5.0	3	0.5	5.0	1	0.1	3.0	0,0			
	12	0,0			3	0.5	5.0	1	0.1	3.3	0,0			
	18	0,0			3	0.3	4.0	1	0.1	3.1	...			
18	0	0,0			3	0.2	4.0	1	0.2	3.3	...			
	6	0,0			3	0.3	4.0	1	0.4	4.0	0,0			
	12	3	0.4	4.0	3	0.4	4.0	1	0.4	4.1	0,0			
	18	3	0.3	2.5	3	0.4	4.0	1	0.4	4.0	0,0			
19	0	3	0.4	3.0	3	0.3	4.0	1	0.4	4.2	3	0.7	5.5	
	6	3	0.4	3.0	3	0.3	4.0	1	0.3	3.6	0,0			
	12	3	0.4	3.0	3	0.2	3.0	1	0.2	3.4	0,0			
	18	3	0.3	2.5	3	0.3	3.0	2	0.1	2.8	0,0			
20	0	3	0.4	2.8	3	0.4	3.2	2	0.1	3.0	0,0			
	6	3	0.5	3.0	3	0.4	3.2	2	0.3	3.6	0,0			Halifax - storm start
	9	3	0.3	2.2										
	12	3	0.3	2.4	3	0.4	3.1	2	0.3	3.6	...			

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		October 20	15	3	0.5	2.7								
	18	3	0.6	2.7	3	0.6	4.0	2	0.5	3.9	0,0			
	21	3	0.6	2.4										
21	0	3	0.9	3.0	3	0.6	3.5	2	0.5	4.0	0,0			
	3	3	0.8	2.9										
	6	3	1.2	3.2	3	1.0	4.0	2	0.4	3.7	0,0			
	12	1	2.3	3.8	3	0.8	4.0	2	0.5	4.0	0,0			
	15	1	2.0	4.0										
	18	3	1.7	3.8	1	1.0	4.5	2	0.5	4.0	0,0			
	21	3	1.1	3.3										
22	0	3	1.1	3.9	3	0.6	3.9	2	0.4	3.7	0,0			
	1	3	1.4	4.1	3	0.8	4.4	2	0.3	3.6	0,0			
	2	3	0.9	3.7	3	0.6	4.0	2	0.3	3.6	0,0			
	3	3	0.8	3.5	3	0.5	4.0	2	0.2	3.3	0,0			
	4	3	0.7	3.3	3	0.5	3.6	2	0.3	3.7	0,0			Halifax - storm end
	5	3	0.7	3.4	3	0.5	4.0	...			0,0			Resolute - Earthquake
	6	3	0.6	3.3	3	0.6	4.0	2	0.3	3.8	0,0			
	7		0.6	3.1	3	0.5	4.0	2	0.2	3.6	0,0			
	8		0.4	2.6	3	0.5	4.0	2	0.3	3.7	0,0			
	9		0.4	2.6	3	0.5	4.0	2	0.2	3.5	0,0			
	10		0.4	2.9	3	0.4	4.0	2	0.2	3.2	0,0			
	11		0.5	3.1	3	0.4	4.0	2	0.2	3.6	0,0			
	12		0.4	2.6	3	0.4	4.1	2	0.2	3.2	0,0			
	13		0.4	2.9	3	0.4	4.0	2	0.3	3.8	0,0			
	14		0.3	2.7	3	0.4	4.0	2	0.2	3.5	0,0			
	15		0.4	2.9	3	0.4	4.0	2	0.2	3.6	0,0			

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		October 22	16		0.4	2.9	3	0.4	4.0	2	0.2	3.5	0,0	
	17	3	0.4	2.9	3	0.3	4.0	2	0.2	3.6	3	0.5	4.0	
	18	3	0.3	2.7	3	0.3	4.0	2	0.2	3.4	3	0.5	4.3	
	19	3	0.2	2.1	3	0.3	4.0	2	0.2	3.6	3	0.6	5.1	
	20	3	0.2	2.2	3	0.3	4.0	2	0.2	3.3	3	0.7	3.5	
	21	3	0.2	2.2	3	0.3	4.0	...			3	0.7	3.8	Resolute - Earthquake
	22	3	0.1	2.0	3	0.3	4.0	2	0.2	3.2	3	0.4	3.0	
	23	3	0.1	2.0	3	0.3	4.0	2	0.2	3.5	3	0.8	3.3	
23	0	3	0.1	1.9	3	0.3	4.0	2	0.2	3.2	3	0.5	3.8	
	1	3	0.1	1.9	3	0.3	4.0	2	0.2	3.9	3	0.8	4.0	
	2	0,0			3	0.3	4.0	2	0.2	3.4	3	0.5	3.8	
	3	0,0			3	0.3	4.0	2	0.2	3.8	3	0.5	3.3	
	4	0,0			3	0.3	4.0	2	0.2	3.8	3	0.7	4.0	
	5	0,0			3	0.3	4.0	2	0.2	3.9	3	0.5	5.0	
	6	0,0			3	0.3	4.0	...			3	0.8	4.2	Resolute - Earthquake
	7	0,0			...			2	0.2	3.7	...			Earthquake
	8	0,0			3	0.3	4.0	2	0.2	3.4	...			
	9	0,0			3	0.3	4.0	2	0.2	3.4	3	0.5	4.1	
	10	0,0			3	0.3	4.0	2	0.2	3.4	3	0.5	5.0	
	11	0,0			3	0.3	4.0	2	0.2	3.4	3	0.5	4.0	
	12	0,0			3	0.3	4.0	2	0.2	3.5	0,0			
	13	0,0			3	0.3	4.0	2	0.2	3.4	0,0			
	14	0,0			3	0.3	4.0	2	0.2	3.4	0,0			
	15	0,0			3	0.3	4.0	2	0.4	4.0	0,0			
	16	0,0			3	0.3	4.0	2	0.4	4.2	0,0			
	17	0,0			3	0.3	4.0	...			3	0.8	5.0	

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		October 23	18	0,0			3	0.3	4.0	2	0.4	4.1	3	
	19	0,0			3	0.4	4.0	2	0.5	4.2	3	0.5	4.9	
	20	0,0			3	0.4	4.0	2	0.4	4.3	0,0			
	21	0,0			3	0.4	4.0	2	0.6	4.4	0,0			
	22	0,0			3	0.4	4.0	2	0.6	4.2	0,0			
	23	0,0			3	0.4	4.0	2	0.6	4.2	0,0			
24	0	0,0			3	0.4	4.0	2	0.6	4.4	0,0			
	1	0,0			3	0.4	4.0	2	0.6	4.2	3	0.5	4.1	
	2	0,0			3	0.4	4.0	2	0.6	4.3	3	0.7	5.0	
	3	0,0			3	0.4	4.0	2	0.7	4.5	3	0.7	5.2	
	4	0,0			3	0.4	4.0	2	0.6	4.7	3	0.7	4.9	
	5	3	0.1	2.0	3	0.4	4.0	2	0.8	4.8	3	0.7	5.4	
	6	3	0.1	2.1	3	0.4	4.0	2	0.5	4.0	3	0.7	5.0	
	7	0,0			3	0.4	4.0	2	0.7	4.7	3	0.6	5.0	
	8	0,0			3	0.4	4.0	2	0.7	4.8	3	0.7	4.5	
	9	0,0			3	0.4	4.0	2	0.7	4.3	3	1.0	5.4	
	10	0,0			3	0.4	4.0	2	0.6	4.3	3	0.8	5.4	
	11	0,0			3	0.4	4.0	2	0.4	3.9	3	0.6	5.0	
	12	3	0.1	1.9	3	0.4	4.0	2	0.5	4.2	3	0.7	5.2	
	13	3	0.1	2.0	3	0.4	4.0	2	0.6	4.3	3	0.6	5.0	
	14	3	0.1	1.9	3	0.4	4.0	2	0.5	4.0	3	0.7	4.5	
	15	3	0.1	1.9	3	0.4	4.0	2	0.5	3.9	3	0.7	5.1	
	16	3	0.2	1.9	3	0.4	4.0	2	0.5	4.2	3	0.6	4.9	
	17	3	0.1	1.8	3	0.4	4.0	...			3	0.7	5.0	
	18	3	0.1	1.8	3	0.4	4.0	2	0.7	4.6	0,0			
	19	3	0.2	2.0	3	0.4	4.0	2	0.8	4.8	3	0.7	5.0	

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		October 24	20	3	0.2	2.0	3	0.4	4.0	...			3	
	21	3	0.2	2.1	3	0.4	4.0	2	0.8	4.7	3	0.7	5.1	
	22	3	0.2	2.1			Earthquake Earthquake
	23	3	0.2	2.0	...			2	0.7	4.5	...			
25	0	3	0.3	2.3	3	0.4	4.0	2	0.8	4.4	...			
	6	3	0.3	2.2	3	0.4	4.0	2	0.4	4.1	3	0.7	4.5	
	12	3	0.1	1.7	3	0.4	4.0	2	0.3	4.1	3	0.8	5.0	
	18	3	0.2	2.1	3	0.5	4.0	2	0.2	3.6	3	0.7	5.0	
26	0	3	0.4	2.7	...			2	0.1	2.9	0,0			Ottawa - no record
	3	3	0.4	2.4										
	6	3	0.4	2.6	...			2	0.2	3.1	3	0.8	6.0	Ottawa - no record
	9	1	0.1	1.4										
	12	1	0.6	2.7	...			2	0.2	3.3	3	0.7	5.5	Ottawa - no record
	15	1	0.9	3.2										
	18	1	0.9	3.1	3	0.8	4.2	2	0.2	3.1	3	0.8	5.7	
27	0	3	0.4	2.5	...			2	0.2	3.5	3	0.7	5.0	Ottawa - no record
	6	3	0.3	2.3	...			2	0.2	3.4	0,0			Ottawa - no record
	12	3	0.2	2.1	...			2	0.2	3.6	0,0			Ottawa - no record
	18	3	0.4	2.3			0,0			Ottawa - no record
28	0	3	0.4	2.3	...			2	0.4	4.6	0,0			Ottawa - no record
	6	3	1.0	3.3	...			2	0.3	3.8	0,0			Ottawa - no record
	12	3	0.7	3.3	...			2	0.2	4.2	0,0			Ottawa - no record
	18	3	0.6	3.2	1	0.8	4.2	2	0.3	4.0	3	0.7	5.0	
29	0	3	0.3	2.4	1	0.8	4.0	2	0.1	3.9	3	0.7	5.4	
	6	3	0.7	2.9	1	0.7	4.0	2	0.2	3.8	0,0			
	12	3	0.9	3.1	1	1.0	3.8	2	0.2	3.8	0,0			
	18	3	0.9	3.4	1	0.7	4.0	2	0.2	3.6	0,0			

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		October 30	0	3	0.7	3.2	3	0.8	4.0	2	0.3	3.9	3	
	6	3	0.4	2.6	3	0.9	4.8	2	0.3	3.6	0,0			
	12	3	0.5	3.0	3	1.0	5.0	2	0.3	3.6	0,0			
	18	3	0.9	4.3	3	0.9	4.5	0,0			0,0			
31	0	3	0.8	4.0	3	0.9	4.5	2	0.2	3.8	3	0.6	5.0	
	6	3	0.2	2.0	3	0.9	4.5	2	0.4	4.4	0,0			
	12	3	0.1	1.6	3	0.7	4.5	3	0.4	5.1	...			
	18	3	0.2	2.0	3	0.4	4.0	0,0			3	0.7	5.8	
November 1	0	3	0.3	2.5	3	0.7	4.6	0,0			0,0			
	6	3	0.2	2.1	3	0.6	4.1	0,0			3	0.7	5.5	
	12	3	0.2	2.0	3	0.5	4.0	0,0			0,0			Halifax - storm start
	15	1	0.2	2.0										
	18	1	0.2	2.0	2	0.6	4.0	0,0			3	0.6	5.0	
	21	1	0.3	2.3										
2	0	1	0.2	1.7	2	0.5	3.6	0,0			0,0			
	3	1	0.3	2.3										
	6	1	0.2	2.1	2	0.5	3.0	2	0.1	3.0	0,0			
	9	1	0.3	2.3										
	12	1	0.3	2.3	2	0.4	3.3	2	0.2	3.4	3	1.0	8.0	
	15	1	0.4	2.4										
	18	1	0.4	2.6	2	0.3	3.3	2	0.1	3.5	0,0			Halifax - storm end
3	0	1	0.3	2.6	2	0.7	4.5	2	0.3	4.6	3	0.8	6.0	
	6	1	0.3	2.5	2	0.6	4.0	2	0.4	4.6	3	0.9	7.0	
	12	1	0.5	2.9	2	0.5	3.8	2	0.3	4.3	3	0.9	7.0	
	18	1	0.4	2.6	2	0.7	4.5	0,0			3	0.8	6.3	Halifax - storm start
	21	1	0.4	2.3										

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
November 4	0	1	0.3	2.1	2	0.6	4.0	2	0.2	3.3	3	0.6	5.0	
	3	1	0.6	2.9										
	6	1	0.6	2.9	2	0.6	3.8	2	0.3	4.1	3	0.8	6.0	
	9	1	0.9	3.1										
	12	1	1.4	3.5	2	0.6	3.8	2	0.3	3.7	3	0.8	6.0	
	15	1	1.8	4.0										
	18	1	1.8	3.8	2	0.7	3.9	0,0			0,0			
	21	1	1.5	3.5										
5	0	1	1.6	3.8	2	0.7	3.9	0,0			3	0.8	6.5	
	3	1	2.0	4.0										
	6	1	1.1	3.3	2	0.6	3.9	0,0			3	0.8	6.0	
	12	1	0.9	3.5	2	0.6	3.9	0,0			3	0.9	7.0	
	15	1	0.6	3.1										
	18	1	0.6	3.0	2	0.4	4.3	...			0,0			
	21	1	0.6	3.0										
	6	0	1	0.6	3.3	2	0.4	4.2	0,0			0,0		
6		1	0.5	3.0	2	0.4	4.0	0,0			0,0			
12		1	0.5	3.1	2	0.4	3.9	2	0.1	2.8	0,0			Resolute - seismograph relocated, no records to November 10.
7	18	1	0.7	3.5	1	0.9	4.5	...			0,0			
	0	1	0.6	3.2	1	1.5	4.7	...			0,0			
	6	1	0.7	3.6	1	1.1	4.5	...			0,0			
	12	1	0.6	3.1	1	1.0	4.9	...			0,0			
	18	1	0.6	3.0	1	0.9	4.3	...			0,0			
8	0	1	0.8	3.6	1	0.8	4.4	...			0,0			

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		November 8	6	1	0.9	3.6	1	0.7	4.5	...			0,0	
	12	1	0.7	3.6	2	0.6	4.0	...			3	0.3	8.5	
	18	1	0.5	3.5	2	0.7	4.5	...			3	1.0	8.0	
9	0	1	0.7	3.9	2	0.6	4.0	...			3	0.9	7.3	
	6	1	0.3	2.5	2	0.6	4.0	...			3	0.9	7.5	Halifax - storm start
	9	1	0.2	2.0										
	12	1	0.2	2.0	2	0.8	3.8	...			0,0			
	15	1	0.6	3.0										
	18	1	0.6	2.7	2	0.6	3.0	...			3	0.9	7.0	
	21	1	0.4	2.3										
10	0	...			2	1.0	4.0	...			3	0.9	7.0	
	3	...												
	6	...			2	1.1	4.2	...			3	0.9	7.0	
	9	...												
	12	...			2	1.2	4.2	...			3	1.1	7.0	
	15	1	0.9	3.0										
	18	1	0.9	3.0	1	1.1	4.3	2	0.8	4.0	3	1.0	5.0	
	21	1	0.8	2.9										
11	0	1	0.8	3.1	1	1.1	4.3	2	0.8	4.4	3	1.0	5.0	
	3	1	0.8	3.0										
	6	1	0.7	3.1	1	1.5	4.7	2	0.5	3.9	3	1.0	5.0	
	9	1	0.6	2.8										
	12	1	0.8	3.1	1	1.6	4.5	2	0.6	4.3	3	0.9	5.5	
	15	1	1.0	3.1										
	18	1	0.9	3.2	1	1.4	4.5			
	21	1	0.8	3.0										

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		November 12	0	1	1.2	3.7	1	0.8	4.2	...			3	
	3	1	1.2	3.5										
	6	1	1.2	3.5	1	0.6	4.0	...			3	1.0	4.5	
	9	1	1.0	3.5										
	12	1	0.6	3.2	1	0.5	4.1	...			3	0.6	4.3	
	15	1	0.7	3.3										
	18	1	0.7	3.2	3	0.6	4.2	...			3	0.7	4.4	Halifax - storm end
13	0	1	0.6	3.0	3	0.6	4.4	...			3	0.6	4.6	
	6	1	0.5	3.0	3	2.8	8.0	...			3	2.0	7.1	
	12	1	0.4	2.8	3	1.8	7.7	...			3	2.3	7.4	
	18	1	0.4	2.9			3	2.3	7.4	Earthquake
14	0	1	0.3	2.5	3	1.1	7.0	1	0.7	5.2	3	2.4	7.0	
	1	1	0.3	2.6	3	1.2	7.0	1	1.2	6.5	3	2.2	6.9	
	2	1	0.4	2.8	3	1.2	6.0	1	1.0	6.4	3	2.7	7.5	
	3	1	0.4	2.8	3	1.3	6.7	1	1.2	6.2	3	2.4	7.1	
	4	1	0.3	2.9	3	1.3	6.8	1	1.1	6.8	3	2.2	7.1	
	5	1	0.6	4.3	3	1.5	6.9	1	1.1	6.5	3	2.2	6.8	
	6	1	0.5	3.7	3	1.4	7.0	1	1.3	6.5	3	1.7	6.2	
	7	1	0.4	2.9	3	1.4	6.8	1	1.2	6.7	3	1.9	7.1	
	8	1	0.5	4.1	3	1.6	7.0	1	1.2	7.0	3	1.8	6.4	
	9	1	0.5	3.9	3	1.4	7.0	1	1.2	6.4	3	2.3	7.4	
	10	1	0.5	4.0	3	1.4	7.0	1	1.6	7.3	3	1.9	6.3	
	11	1	0.9	5.0	3	1.3	7.0	1	1.3	6.6	3	2.4	7.1	
	12	1	0.7	4.2	3	1.3	6.6	1	1.1	6.7	3	1.9	6.5	
	13	1	0.5	3.5	3	1.2	6.4	1	1.6	7.3	3	2.3	7.4	
	14	1	0.4	3.2	3	1.5	6.8	1	1.3	7.2	3	2.3	7.4	

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS	
		K	A	T	K	A	T	K	A	T	K	A	T		
		November 14	15	1	1.0	5.0	3	1.2	6.0	1	1.4	6.6	3		2.0
	16	1	0.9	5.0	...			1	1.1	6.4	3	1.9	7.2		
	17	1	0.6	4.0	3	1.2	6.0	...			3	2.5	7.4		
	18	1	0.6	4.0	3	1.1	6.0				
	19	1	0.7	4.5	3	1.0	6.0				
	20	1	0.7	4.7	3	0.9	5.2	...			3	2.3	7.1		
	21	1	1.0	5.0	3	0.9	5.1	...			3	2.2	7.2		
	22	1	0.7	4.5	3	0.8	5.1	...			3	2.2	7.0		
	23	1	0.8	3.8	3	1.0	5.0	...			3	1.8	6.5		
15	0	1	0.6	4.3	3	0.9	5.1	...			3	1.5	6.3		
	6	1	0.7	4.5	3	0.8	5.0	2	0.2	3.7	3	1.7	6.1		
	12	1	0.6	4.1	3	0.5	4.0	2	0.2	4.0	3	1.8	6.6		
	18	1	0.5	3.7	3	0.5	4.0	...			3	1.6	6.1		
16	0	1	0.7	4.0	3	0.6	4.0	...			3	0.8	6.0	Halifax - storm start	
	3	1	0.5	3.0											
	6	1	0.2	2.0	3	0.8	5.0	1	0.2	3.9	3	0.8	6.2		
	9	1	0.2	2.0											
	12	1	0.2	2.0	3	1.0	5.0	1	0.3	3.8	0,0				
	15	1	0.4	2.4											
	18	1	0.4	2.2	3	0.9	4.7	...			0,0				
	21	1	0.9	3.0											
17	0	1	1.1	3.0	3	1.0	4.9	1	0.3	4.2	0,0				
	3	1	0.9	2.9											
	6	1	1.2	3.1	3	1.0	5.0	...			0,0				
	9	1	1.0	3.3											
	12	1	1.5	3.5	3	0.9	4.9	1	0.3	4.1	3	0.5	4.3		

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		November 17	15	1	1.2	3.4								
	18	1	0.9	3.3	3	1.0	5.0	...				3	0.5	3.8
	21	1	0.7	3.0										
18	0	1	0.8	3.0	3	1.1	5.0	...				3	0.6	4.2
	3	1	0.9	3.1										
	6	1	1.4	3.4	3	1.4	6.0	1	0.6	5.0	3	1.0	5.1	
	9	1	0.9	3.0										
	12	1	1.2	3.3	3	1.7	6.0	1	0.7	5.4	3	0.9	4.3	
	15	1	1.2	3.4										
	18	1	0.7	2.9	3	1.4	6.0	...				3	0.7	4.6
	21	1	1.1	3.2										
19	0	1	1.0	3.3	3	1.6	6.0	2	0.3	4.4	0,0			
	3	1	0.7	3.0										
	6	1	0.8	3.4	3	1.2	6.0	2	0.3	4.8	3	0.6	5.0	
	9	1	0.9	3.5										
	12	1	0.7	3.3	3	0.8	5.0	0,0				3	0.7	5.5
	15	1	0.8	3.3										
	18	1	0.3	2.5	3	0.6	3.8	0,0				0,0		
	21	1	0.7	3.0										
20	0	1	0.5	2.7	3	0.5	3.4	1	0.1	3.9	0,0			
	3	1	0.7	2.9										
	6	1	0.9	3.1	3	0.7	3.9	1	0.1	3.7	0,0			
	12	1	0.7	2.6	3	0.9	4.0	1	0.2	4.2	0,0			
	15	1	1.0	3.3										
	18	1	1.3	3.5	1	1.0	4.0	...				0,0		
	21	...												

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		November 21	0	...			1	0.7	3.6	1	0.4	4.3	0,0	
	1	...			1	0.8	4.0	1	0.3	4.2	0,0			
	2	...			1	0.8	3.9	1	0.3	3.8	0,0			
	3	...			1	0.8	4.0	1	0.3	4.0	0,0			
	4	...			1	0.8	3.8	1	0.3	4.0	0,0			
	5	...			1	0.9	3.9	1	0.2	3.8	0,0			
	6	...			1	0.8	3.7	1	0.2	3.9	0,0			
	7	...			1	0.7	3.6	1	0.2	3.8	0,0			
	8	...			1	0.7	4.0	1	0.3	4.2	0,0			
	9	...			1	0.8	4.0	1	0.4	4.4	0,0			
	10	...			1	0.9	3.9	1	0.2	4.4	0,0			
	11	...			1	0.9	4.1	1	0.2	3.9	0,0			
	12	...			1	0.8	4.5	1	0.3	4.3	0,0			
	13	...			1	0.9	4.2	1	0.2	4.4	0,0			
	14	...			1	0.8	4.0	1	0.3	4.1	0,0			
	15	1	0.8	3.0	1	0.7	4.0	1	0.2	4.1	0,0			
	16	1	1.1	3.3	1	0.9	4.0	...			0,0			
	17	1	0.5	2.4	3	0.7	4.0	...			3	0.6	5.1	
	18	1	0.5	2.9	3	0.8	4.4	...			0,0			
	19	1	0.9	3.3	3	0.7	4.1	...			3	0.7	5.6	
	20	1	0.6	2.9	3	0.8	4.0	...			3	0.6	5.1	
	21	1	1.0	3.5	3	1.0	5.1	...			0,0			
	22	1	0.7	3.0	3	1.3	5.5	...			0,0			
	23	1	0.8	3.1	3	1.3	5.2	1	0.6	5.2	0,0			
22	0	1	0.8	3.0	3	1.1	5.0	1	0.5	4.8	3	0.7	4.7	
	1	1	0.9	3.4	3	1.0	5.0	1	0.4	4.5	3	0.6	5.1	

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		November 22	2	1	1.0	3.4	3	0.9	5.1	1	0.4	5.4	3	
	3	1	1.0	3.4	3	1.0	5.0	1	0.5	4.7	3	0.7	5.2	
	4	1	0.9	3.4	3	1.3	5.2	1	0.5	4.7	3	0.7	4.6	
	5	1	0.8	3.4	3	1.0	5.2	1	0.6	5.3	0,0			
	6	1	1.0	3.6	3	0.9	5.1	1	0.5	4.9	3	0.6	4.5	
	7	1	0.8	3.3	3	0.9	5.0	1	0.4	4.7	3	0.6	4.7	
	8	1	0.8	3.4	3	0.9	5.0	1	0.4	5.3	0,0			
	9	1	0.7	3.2	3	0.9	5.1	1	0.4	5.0	3	0.5	4.1	
	10	1	0.7	3.4	3	1.0	5.0	1	0.4	5.4	3	0.7	5.2	
	11	1	0.6	3.1	3	0.8	5.1	1	0.2	5.0	3	0.7	5.0	
	12	1	0.9	3.9	3	0.8	5.1	1	0.3	4.1	3	0.7	5.4	
	13	1	0.8	3.6	3	0.8	5.1	1	0.3	4.5	0,0			
	14	1	0.9	3.8	3	0.8	5.0	1	0.4	4.8	3	0.7	5.2	
	15	1	0.8	3.7	3	0.8	5.1	1	0.3	4.9	3	0.8	5.3	
	16	1	0.7	3.4	3	0.6	4.0	...			0,0			
	17	1	0.7	3.7	3	0.8	5.2	...			0,0			
	18	1	0.9	3.8	3	0.8	5.0	...			0,0			
	19	1	0.9	4.0	3	0.8	5.0	...			0,0			
	20	1	0.8	3.8	3	0.7	4.4	...			3	0.6	3.8	
	21	1	0.9	4.1	3	0.8	5.0	...			3	0.6	4.7	
	22	1	0.7	3.6	3	0.8	5.0	...			0,0			
	23	1	0.6	3.4	3	0.8	5.0	1	0.2	4.1	0,0			
23	0	1	0.7	3.3	3	0.8	5.0	1	0.2	4.2	0,0			
	6	1	0.6	3.6	3	0.7	4.9	1	0.1	4.6	3	0.7	5.0	
	12	1	0.6	3.1	3	0.5	3.6	0,0			3	0.7	5.3	
	18	1	0.5	3.0	3	0.5	3.7	...			3	0.7	5.2	

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS	
		K	A	T	K	A	T	K	A	T	K	A	T		
		November 24	0	1	0.6	3.7	3	0.5	3.6	1	0.2	4.4	3		0.8
	6	1	0.5	3.5	3	0.5	4.0	1	0.2	4.2	3	0.7	5.3		
	12	1	0.2	2.4	3	0.5	4.0	1	0.2	3.9	3	0.5	3.3		
	18	1	0.4	2.5	3	0.4	3.6	...			3	0.5	3.8		
	21	1	0.5	2.6											
25	0	1	0.9	3.0	3	0.6	4.0	1	0.2	4.5	3	0.7	5.2		
	3	1	1.1	3.2											
	6	1	1.8	3.8	3	0.8	4.0	1	0.2	4.5	3	0.6	5.1		
	9	1	2.1	4.0											
	12	1	1.1	3.3	3	0.9	4.5	1	0.3	4.2	3	0.7	5.1		
	15	...													
	18	...			3	0.8	4.2	...			3	1.0	5.6		
	21	...													
26	0	...			3	0.9	4.4	...			3	1.0	6.2		
	3	...													
	6	...			3	1.2	4.6	1	0.8	5.7	3	1.4	6.3		
	9	...													
	12	...			3	1.5	5.0	...			3	1.3	6.2	Earthquake	
	15	1	1.4	4.2											
	18	1	2.0	4.7	3	1.3	5.0	1	0.5	5.3	3	1.5	6.3	Ottawa - storm start	
	21	1	2.1	5.0	3	1.9	5.4								
27	0	1	1.6	4.4	3	2.8	6.5	1	0.5	5.4	3	1.1	6.7		
	3	1	2.1	4.8	3	2.7	6.2								
	6	1	1.7	4.5	3	2.9	6.0	1	1.2	5.4	3	1.0	6.2		
	9	1	2.8	5.3	3	4.0	6.0								
	12	1	1.5	4.3	3	3.2	6.0	1	1.1	5.6	3	1.0	6.8		

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		November 27	15	1	2.0	4.5	3	2.3	5.9					
	18	1	0.6	3.0	3	3.2	6.0	1	1.1	5.5	3	1.5	6.0	
	21	1	0.6	3.0	3	2.7	5.6							
28	0	1	0.7	3.1	3	2.9	6.0	1	0.9	5.4	...			
	3	1	0.6	2.9	3	2.8	6.5							
	6	1	0.9	3.5	3	2.2	5.5	...			3	0.8	6.1	Resolute - Earthquake
	9	1	1.1	3.7	3	1.9	5.4							
	12	1	1.0	4.0	3	2.2	6.0	1	0.7	5.3	3	0.9	5.4	Ottawa - storm end
	15	1	1.4	4.5	3									
	18	1	1.3	4.4	3	1.7	5.8	...			3	0.8	5.8	Resolute - no record
29	0	1	1.8	5.0	3	1.7	6.0	1	0.7	5.6	3	0.8	5.9	Halifax - storm end
	6	1	1.1	4.2	3	1.9	5.6	1	0.6	5.0	3	0.8	6.2	
	12	1	1.2	4.5	3	1.7	6.0	1	0.3	4.8	3	0.9	6.5	
	18	1	0.2	2.0	3	1.4	5.6	...			3	0.6	4.7	Resolute - no record on November 30
30	0	1	0.4	2.3			Halifax - storm start
	3	1	0.8	2.7	3			...						
	6	1	0.9	2.6	3	1.0	5.0	...			0,0			
	9	1	0.9	2.7	3			...						
	12	1	0.8	2.6	3	0.9	5.1	...			0,0			
	15	1	0.9	2.8	3			...						
	18	1	1.2	3.3	3	0.8	4.9	...			2	0.8	6.3	
	21	1	0.9	2.9	3			...						
December 1	0	1	0.9	3.0	3	0.8	3.6	1	0.3	6.5	0,0			
	3	1	1.0	3.0										
	6		1.0	3.2	1	0.9	4.0	1	0.4	6.0	0,0			
	9	1	1.1	3.1										

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 1	12	1	2.1	3.6	1	1.2	4.0	1	0.4	5.6	0,0	
	15	...												
	18	...			1	1.2	4.0	...			0,0			Ottawa - storm
	21	...			1	2.1	4.6							Halifax - not readable
2	0	...			1	2.2	4.9	1	0.7	5.6	0,0			
	3	...			1	1.9	5.0							
	6	2	0.7	2.9	1	1.7	5.5	1	0.6	5.4	3	1.3	5.0	
	9	2	0.6	2.7	1	2.0	5.0							
	12	2	0.9	3.1	1	2.0	5.0	2	0.9	6.6	0,0			
	15	2	1.1	3.8	1	2.7	5.5							
	18	2	2.0	4.0	1	4.6	6.0	3	1.9	7.2	0,0			
	21	2	1.7	4.0	1	3.9	5.7							
3	0	2	1.2	4.0	1	3.5	6.0	...			0,0			
	3	2	0.8	3.0	1	3.0	5.0							
	6	2	0.6	2.5	1	3.5	5.0	3	2.0	7.0	0,0			
	9	2	0.7	2.5	1	3.0	5.6							
	12	2	0.6	2.7	1	2.6	5.2	3	1.8	6.6	0,0			
	15	2	0.6	2.6										
	18	...			1	1.8	5.0	...			0,0			
	21	2	0.7	3.1										
4	0	2	0.2	2.0	3	1.1	4.5	...			0,0			Resolute - no record
	3	2	0.3	2.2										
	6	2	0.2	2.0			Earthquake
	9	2	0.3	2.3							...			
	12	2	0.3	2.2			
	15	2	0.5	3.0										
	18	2	0.4	2.9	3	1.6	4.4	1	0.9	6.4	0,0			

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 4	21	2	0.4	2.5								
5	0	1	0.8	3.5	3	1.6	4.0	1	0.7	6.4	0,0			Ottawa - storm
	3	1	1.6	4.3	3	2.0	4.5							
	6	1	1.7	4.2	3	2.5	5.0	1	1.4	5.7	0,0			
	9	...			3	3.8	5.0							
	12	...			3	2.8	5.0	2	1.8	6.1	0,0			Halifax - not readable amplitudes too large
	15	...			3	2.0	4.5							
	18	...			3	3.4	4.6	3	2.5	6.2	0,0			
	21	...			3	4.3	5.9							
6	0	...			3	4.0	6.0	3	2.1	6.2	0,0			
	3	...			3	2.7	5.6							
	6	...			3	3.6	5.7	3	1.8	6.3	0,0			
	9	...			3	2.4	5.4							
	12	...			3	2.2	5.1	2	1.6	6.5	0,0			
	15	2	2.7	4.8	3	2.1	5.3							
	18	2	2.7	4.6	3	2.2	5.8	2	1.3	6.2	0,0			
	21	2	2.0	4.7	3	1.8	5.0							
7	0	2	1.0	3.5	3	2.0	4.9	2	1.2	6.1	3	1.7	6.0	
	3	2	1.0	3.4	3	2.5	5.0							
	6	2	1.0	3.4	3	1.8	5.1	2	1.1	6.6	3	1.9	6.1	
	9	2	1.0	3.5	3	1.8	5.0							
	12	2	1.2	3.7	3	2.0	5.1	2	1.0	6.1	3	1.9	6.0	
	15	2	1.1	3.7	3	1.9	5.0							
	18	2	0.8	3.6	3	1.8	5.0	1	0.9	6.9	3	1.9	6.7	
	21	2	1.2	4.0	3	1.5	5.0							

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 8	0	2	0.9	3.6	3	1.3	5.7	1	0.9	6.1	3	
	3	2	0.8	3.9	3	1.2	4.7							
	6	2	0.6	3.0	3	1.2	4.7	1	1.6	6.4	3	1.6	5.3	
	9	...			3	1.3	5.0							
	12	...			3	1.3	4.8	2	2.1	7.2	2	2.6	6.7	
	15	...												
	18	...			3	1.3	5.0	1	1.5	6.9	2	2.2	6.4	
	21	2	0.5	2.4	3									
9	0	2	0.5	2.5	3	1.4	5.1	1	1.5	6.7	2	2.1	6.8	
	3	2	0.5	2.8										
	6	2	0.4	2.3	3	1.5	5.0	1	0.8	6.6	2	2.1	7.3	
	9	2	0.3	2.0										
	12	2	0.4	2.3	3	1.5	4.9	1	0.8	6.6	2	1.9	6.7	
	15	1	0.6	2.6										
	18	1	0.7	2.7	3	1.6	5.0	1	0.8	5.5	0,0			
	21	1	0.7	2.7										
10	0	1	0.6	2.5	3	1.5	5.0	1	0.9	6.3	...			
	3	1	0.7	2.7										
	6	1	0.7	2.8	2	1.3	5.0	1	0.8	6.8	0,0			
	9	1	0.4	2.6										
	12	1	0.4	2.5	2	0.9	4.3	1	0.9	6.6	0,0			
	15	1	0.6	3.3										
	18	1	0.6	3.0	2	0.7	4.0	1	1.0	6.1	0,0			
	21	2	0.4	2.5										
11	0	2	0.4	2.5	2	0.7	3.6	1	1.0	6.2	0,0			
	3	2	0.4	2.5										

I. G. Y. MICROSEISMIC BULLETIN

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 11	6	2	0.5	2.5	2	0.9	3.8	1	0.8	6.3	0,0	
	9	...												
	12		2	1.0	3.9	1	0.7	6.3	0,0			
	15	2	0.6	3.3										
	18	2	0.9	3.0	2	1.0	3.8	1	0.7	6.2	0,0			Halifax - seismograph sensitivity lowered
12	0	2	0.5	2.7	2	1.5	5.0	1	0.8	6.0	3	1.7	6.3	
	6	2	0.6	3.1	2	1.5	5.0	1	0.7	5.6	0,0			Ottawa - storm start
	9				1	2.0	5.0							
	12	2	0.7	3.0	1	2.0	4.8	1	0.8	5.7	0,0			
	15				1	2.1	5.0							
	18	2	0.6	3.3	1	2.4	5.2	1	0.8	5.8	0,0			
	21				1	2.0	5.2							
13	0	2	0.7	3.0	1	2.0	5.1	1	0.8	5.5	0,0			
	1	1	0.7	2.7	1	2.1	5.2	1	0.8	5.6	0,0			Ottawa - storm end
	2	1	0.8	2.6			0,0			Earthquake
	3	1	1.1	3.0			0,0			
	4	1	1.0	3.0	1	2.3	5.1	...			0,0			
	5	1	1.4	3.3	1	2.3	5.0	...			0,0			
	6	1	1.4	3.2	1	2.3	5.0	1	0.7	5.6	0,0			
	7	1	1.6	3.5	1	1.6	4.6	1	0.7	5.4	0,0			
	8	1	1.3	3.3	1	2.0	5.0	1	0.7	5.6	0,0			
	9	1	1.7	3.7	1	1.8	5.0	1	0.6	5.3	0,0			
	10	1	1.8	4.0	1	2.0	5.0	1	0.6	5.7	0,0			
	11	1	1.4	3.6	1	2.0	5.0	1	0.6	6.0	0,0			
	12	1	1.9	4.1	1	1.8	5.0	1	0.5	5.6	0,0			

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 13	13	1	2.2	4.3	1	1.9	5.0	1	0.7	5.5	0,0	
	14	1	2.4	4.5	1	1.8	5.0	1	0.5	5.8	0,0			
	15	1	2.5	4.3	1	1.7	4.9	1	0.5	5.8	0,0			
	16	1	2.6	4.8	1	1.9	5.0	...			0,0			
	17	1	2.3	4.4	1	1.7	5.1	1	0.6	5.6	0,0			
	18	1	3.2	5.0	1	1.7	5.1	1	0.6	5.7	0,0			
	19	1	1.5	4.0	1	1.7	5.0	1	0.5	6.1	0,0			
	20	1	3.5	5.0	1	1.6	5.0	1	0.5	5.4	0,0			
	21	1	1.7	4.1			0,0			Earthquake
	22	1	1.6	4.0	1	1.9	5.0	...			0,0			Ottawa - storm start
	23	1	2.0	4.4	1	2.2	4.4	2	0.6	5.4	0,0			
14	0	1	1.7	4.0	1	2.4	4.7	2	0.6	5.3	0,0			
	3				1	3.7	5.0							
	6	1	2.5	5.0	1	3.3	5.0	3	1.4	6.0	0,0			Resolute - storm start
	9				1	4.3	5.1	3	1.9	5.9				
	12	1	4.3	5.5	1	4.2	5.3	3	1.7	6.0	3	1.6	5.5	
	15				1	2.5	5.0	3	1.5	6.1				
	18	1	3.2	5.5	1	3.6	5.6	3	1.3	5.9	0,0			Resolute - storm end
	21				1	2.0	5.3							Ottawa - storm end
15	0	2	2.1	5.5	1	2.6	6.1	1	0.9	5.8	0,0			
	1	2	2.5	5.0	1	2.5	6.0	1	0.8	5.8	0,0			
	2	2	3.1	5.5	1	2.1	6.0	1	0.7	6.0	0,0			
	3	2	2.0	5.0	1	2.1	5.3	1	0.6	5.7	0,0			
	4	2	1.7	5.0	1	2.0	5.1	1	0.5	5.8	0,0			
	5	2	1.3	4.5	1	1.2	5.0	1	0.5	5.7	0,0			
	6	2	0.5	3.0	1	1.5	5.0	1	0.5	5.7	0,0			

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 15	7	2	0.5	3.0	1	1.5	5.0	2	0.5	6.1	0,0	
	8	2	0.8	4.1	3	1.8	5.2	2	0.4	6.0	0,0			
	9	2	0.3	2.7	3	1.5	5.2	2	0.5	5.9	0,0			
	10	2	0.4	3.1	3	1.3	5.2	3	0.5	5.4	0,0			
	11	2	0.3	3.3	2	1.2	5.0	3	0.4	5.8	0,0			
	12	2	0.3	3.0	2	1.3	5.0	3	0.5	5.5	0,0			
	13	2	0.3	3.0	2	1.3	5.0	3	0.3	6.2	0,0			
	14	2	0.3	3.0	2	1.3	5.0	3	0.4	5.8	0,0			
	15	2	0.3	3.0	2	0.7	4.0	3	0.4	6.0	0,0			
	16	2	0.2	2.5	2	0.8	4.0	3	0.4	5.9	0,0			
	17	2	0.2	2.2	2	0.7	4.0	2	0.4	6.0	0,0			
	18	2	0.2	2.2	2	0.6	3.5	2	0.3	6.1	0,0			
	19	2	0.2	2.2	2	0.7	3.8	2	0.5	5.9	0,0			
	20	1	0.2	2.2	2	0.7	4.0	2	0.3	6.0	0,0			
	21	1	0.2	2.3	2	0.6	4.0	2	0.3	6.0	0,0			
	22	1	0.3	2.5	2	0.6	4.0	2	0.3	6.7	0,0			
	23	1	0.3	2.5	2	0.7	4.0	2	0.4	5.9	0,0			
16	0	1	0.3	2.5	2	0.7	3.7	2	0.4	5.8	0,0			
	1	1	0.3	2.5	2	0.6	3.5	2	0.4	6.0	0,0			
	2	1	0.3	2.5	2	0.7	3.8	2	0.3	6.1	0,0			
	3	1	0.3	2.5	2	0.7	3.8	2	0.3	6.3	0,0			
	4	1	0.3	2.5	2	0.6	3.7	2	0.4	6.0	0,0			
	5	1	0.3	2.5	2	0.6	4.0	2	0.4	5.6	0,0			
	6	1	0.3	2.5	2	0.6	4.0	2	0.3	5.8	0,0			
	7	1	0.4	3.0	2	0.7	4.0	2	0.4	5.7	0,0			
	8	1	0.4	3.0	2	0.7	4.0	2	0.4	6.0	0,0			

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 16	9	1	0.4	3.0	2	0.6	4.0	2	0.4	5.6	0,0	
	10	1	0.4	3.0	2	0.6	4.0	2	0.6	5.6	0,0			
	11	1	0.4	3.0	2	0.6	4.0	2	0.5	5.9	0,0			
	12	1	0.4	3.0	2	0.6	4.0	2	0.5	5.5	0,0			
	13	1	0.4	3.0	2	0.6	4.0	2	0.5	5.9	0,0			
	14	1	0.3	3.0	2	0.6	4.0	2	0.5	6.0	0,0			
	15	2	0.4	3.5	2	0.6	4.0	2	0.5	6.0	0,0			
	16	2	0.7	4.0	2	0.6	4.0	2	0.4	6.0	0,0			
	17	2	0.3	3.5	2	0.6	4.0	2	0.4	5.8	0,0			
	18			0,0			Earthquake
	19	2	0.4	3.6	2	0.6	4.0	...			0,0			
	20	2	0.3	3.6	2	0.6	4.0	1	0.6	5.9	0,0			
	21	2	0.2	3.0	2	0.6	4.0	1	0.5	6.1	0,0			
	22	2	0.2	3.0	2	0.6	4.0	1	0.5	5.8	0,0			
	23	2	0.2	3.0	2	0.6	4.0	1	0.4	5.7	0,0			
17	0	2	0.2	3.0	2	0.6	4.0	...			0,0			Earthquake
	1	2	0.2	3.0	2	0.4	4.0	1	0.5	6.3	0,0			
	2	2	0.3	3.0	2	0.4	4.0	1	0.4	6.2	0,0			
	3	2	0.3	3.0	2	0.4	4.0	1	0.4	6.4	0,0			
	4	2	0.2	2.5	2	0.4	4.0	1	0.5	6.2	0,0			
	5	2	0.4	3.0	2	0.4	3.8	1	0.4	5.8	0,0			
	6			0,0			Earthquake
	7	1	0.4	3.0			0,0			
	8	1	0.5	3.0			0,0			
	9	1	0.4	3.0	2	0.3	3.3	...			0,0			
	10	1	0.4	3.0	2	0.3	3.3	1	0.4	6.1	0,0			
	11	1	0.4	3.0	2	0.3	3.0	1	0.4	6.3	0,0			

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 17	12	2	0.4	3.0	2	0.3	3.0	1	0.5	6.0	0,0	
	13	2	0.3	3.0	2	0.3	3.0	1	0.4	5.9	0,0			
	14	2	0.3	3.0	2	0.3	3.0	...			0,0			Earthquake
	15			0,0			Earthquake
	16			0,0			
	17	2	0.4	2.5			0,0			
	18	2	0.2	2.2	2	0.4	3.0	...			2	2.2	5.7	
	19	2	0.3	2.5	2	0.4	3.3	...			2	2.4	5.6	
	20	1	0.3	2.5	2	0.4	3.4	...			2	2.2	5.3	
	21	1	0.3	2.5	2	0.4	3.4	2	0.4	5.6	2	1.8	5.5	
	22	1	0.3	2.5	2	0.4	3.3	2	0.3	5.8	2	1.8	5.5	
	23	1	0.4	3.0	2	0.4	3.5	2	0.4	5.6	2	1.9	5.8	
18	0	1	0.5	3.0	2	0.4	3.4	2	0.4	5.5	2	1.7	5.3	
	1	1	0.3	2.6	2	0.5	4.0	2	0.4	5.8	2	1.6	5.0	
	2	1	0.7	3.0	2	0.5	4.0	2	0.3	6.0	2	1.7	5.1	
	3	1	0.7	3.0	2	0.5	4.0	...			2	1.7	5.2	Earthquake
	4	1	0.7	3.0	2	0.4	3.5	2	0.4	5.5	2	1.5	4.8	
	5	1	0.7	3.0	2	0.4	3.5	2	0.3	6.0	2	1.6	4.8	
	6	1	0.7	3.0	2	0.4	3.5	2	0.3	5.8	2	1.5	4.9	
	7	1	0.7	3.0	2	0.4	3.5	2	0.4	5.6	2	1.6	4.9	
	8	1	0.5	3.0	2	0.4	3.5	2	0.4	5.7	2	1.8	4.8	
	9	1	0.5	3.0	2	0.4	3.5	2	0.3	6.0	2	1.3	4.3	
	10	1	0.4	3.0	2	0.4	3.5	2	0.4	5.5	2	1.8	4.8	
	11	1	0.4	3.0	2	0.4	3.5	2	0.4	5.9	2	2.0	4.9	
	12	1	0.5	3.0	2	0.5	3.4	2	0.4	5.8	2	1.6	4.7	
	13	1	0.4	3.0	2	0.4	3.6	2	0.4	5.9	2	1.5	4.5	

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 18	14	1	0.7	3.5	2	0.4	3.6	2	0.4	6.0	2	
	15	1	0.6	3.2	2	0.4	3.6	2	0.3	6.0	2	1.5	4.6	
	16	1	0.7	3.5	2	0.5	4.0	...			3	1.6	5.0	
	17	2	0.8	3.5	2	0.5	4.0	2	0.4	6.0	0,0			
	18	2	0.4	3.0	2	0.6	4.0	2	0.4	5.9	0,0			
	19	2	1.1	4.0	2	0.4	4.0	2	0.5	5.8	0,0			
	20	1	0.4	3.0	2	0.4	4.0	2	0.4	6.0	0,0			
	21	1	0.7	3.5	2	0.4	4.0	2	0.4	5.8	0,0			
	22	1	0.4	3.3	2	0.4	4.0	...			0,0		Earthquake	
	23	1	0.4	3.1	2	0.4	4.0	2	0.4	5.8	0,0			
19	0	1	0.4	3.1	2	0.6	4.2	2	0.5	5.7	0,0			
	1	1	0.5	3.1	2	0.4	4.0	2	0.4	5.9	0,0			
	2	1	0.3	3.0	2	0.4	4.0	2	0.4	6.0	0,0			
	3	1	0.3	3.0	2	0.4	4.0	2	0.4	5.9	0,0			
	4	1	0.3	3.0	2	0.4	4.0	2	0.4	5.6	0,0			
	5	1	0.5	3.0	2	0.4	4.0	...			0,0		Earthquake	
	6	2	0.2	3.0	2	0.4	4.0	2	0.4	5.6	0,0			
	7	2	0.2	3.0	2	0.4	4.0	2	0.4	5.6	0,0			
	8	2	0.2	3.0	2	0.4	4.0	2	0.4	5.8	0,0			
	9	2	0.2	3.0	2	0.4	4.0	2	0.5	5.6	0,0			
	10	2	0.2	3.0	2	0.4	4.0	2	0.5	5.8	0,0			
	11	2	0.2	3.0	2	0.4	4.0	2	0.4	5.8	0,0			
	12	2	0.2	3.0	2	0.4	4.1	2	0.5	5.8	0,0			
	13	2	0.2	3.0	2	0.4	4.0	2	0.5	5.9	0,0			
	14	2	0.2	3.0	2	0.4	4.0	2	0.6	5.8	0,0			
	15	2	0.2	3.0	2	0.4	4.0	2	0.5	5.9	0,0			

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS	
		K	A	T	K	A	T	K	A	T	K	A	T		
		December 19	16	2	0.2	3.0	2	0.4	4.0	...			0.0		
	17	2	0.2	3.0	2	0.2	4.0	2	0.4	6.1	0.0				
	18	2	0.2	3.0	2	0.3	2.8	2	0.6	5.8	0.0				
	19	2	0.2	3.0	2	0.3	2.8	2	0.7	6.0	0.0				
	20	2	0.2	3.0	2	0.3	2.8	2	0.7	5.9	0.0				
	21	2	0.2	3.0	2	0.3	3.0	2	0.6	6.1	0.0				
	22	2	0.2	3.0	2	0.3	3.3	2	0.6	6.0	0.0				
	23	2	0.2	3.0	2	0.4	4.0	2	0.8	5.9	0.0				
20	0	2	0.2	3.0	2	0.6	4.0	2	0.7	6.0	2	1.4	5.0		
	1	2	0.3	3.0	2	0.6	4.0	2	0.7	6.2	2	1.6	5.1		
	2	2	0.3	3.0	2	0.6	4.0	2	0.8	6.0	2	1.8	5.2		
	3	2	0.3	3.0	2	0.7	4.4	2	0.7	6.0	2	2.2	5.7		
	4	2	0.3	3.0	2	0.7	4.4	2	0.7	6.0	2	2.1	5.4		
	5	2	0.3	3.0	2	0.7	4.4	2	0.7	6.1	2	2.2	6.0		
	6	2	0.5	3.0	2	0.9	4.4	2	0.7	6.2	2	2.5	5.9		
	7	2	0.5	3.0	2	0.5	4.0	2	0.7	6.0	2	2.8	6.4		
	8	2	0.5	3.0	2	0.8	5.0	2	0.6	6.0	2	2.9	6.4		
	9	2	0.5	3.0	2	0.9	5.0	2	0.7	6.1	2	2.0	6.0		
	10	2	0.3	3.0	2	0.7	5.0	2	0.6	6.3	2	2.0	6.0		
	11	2	0.3	3.0	2	0.6	4.0	2	0.7	6.4	2	2.0	6.4		
	12	2	0.3	3.0	2	0.6	4.0	...			2	2.0	6.4	Earthquake	
	13	2	0.3	3.0	2	0.6	4.0	...			2	1.8	6.0		
	14	2	0.3	3.0	2	0.6	4.0	3	0.7	6.7	2	2.2	6.0		
	15	2	0.3	3.0	2	0.6	4.0	3	0.8	7.1	2	2.1	6.3		
	16	2	0.3	3.0	2	0.6	4.0	...			3	1.3	4.0	Record change	
	17	2	0.3	3.0	2	0.6	4.0	3	0.7	6.9	...				

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 20	18	2	0.3	3.0	2	0.7	3.7	3	0.9	6.7	0,0	
	19	2	0.3	3.0	2	0.6	4.0	3	0.8	6.7	0,0			
	20	2	0.3	3.0	2	0.5	4.0	1	1.0	6.6	0,0			
	21	2	0.3	3.0	2	0.5	4.0	1	0.8	6.5	0,0			
	22	2	0.3	3.0	2	0.5	4.0	1	1.1	6.6	0,0			
	23	2	0.3	3.0	2	0.5	4.0	1	0.9	6.6	3	1.6	6.0	
21	0	2	0.3	3.0	2	0.6	3.9	1	0.9	6.3	0,0			
	1	2	0.3	3.0	2	0.6	3.8	1	0.8	6.2	0,0			
	2	2	0.3	3.0	2	0.6	3.8	1	0.7	6.2	0,0			
	3	2	0.3	3.0	2	0.5	3.6	1	0.6	6.0	0,0			
	4	2	0.3	3.0	2	0.6	4.0	1	0.6	6.0	0,0			
	5	2	0.3	3.0	2	0.6	4.0	1	0.7	5.8	0,0			
	6	2	0.3	3.0	2	0.6	4.0	2	0.5	6.3	0,0			
	7	2	0.3	3.0	2	0.6	4.0	2	0.5	5.9	0,0			
	8	2	0.3	3.0	2	0.6	4.0	2	0.5	5.9	0,0			
	9	2	0.3	3.0	2	0.6	4.0	2	0.6	5.8	0,0			
	10	2	0.3	3.0	2	0.6	4.0	2	0.5	5.7	0,0			
	11	2	0.3	3.0	2	0.6	4.0	2	0.5	6.4	0,0			
	12	2	0.3	3.0	2	0.6	4.0	2	0.4	6.4	0,0			
	13	2	0.3	3.0	2	0.6	4.0	2	0.5	6.1	0,0			
	14	2	0.3	3.0	2	0.6	4.0	2	0.4	6.4	0,0			
	15	2	0.3	3.0	2	0.6	4.0	2	0.5	6.3	0,0			
	16	2	0.5	3.0	2	0.6	4.3	2	0.5	6.5	0,0			
	17	2	0.5	3.0	2	0.7	4.3	2	0.6	6.7	0,0			
	18	2	0.3	3.0	2	0.7	4.3	2	0.5	6.4	0,0			
	19	2	0.5	3.0	2	0.7	4.1	2	0.6	6.6	0,0			

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 21	20	2	0.5	3.0	2	0.7	4.1	...			0,0	
	21	2	0.5	3.0	2	0.8	4.1	1	0.6	6.5	0,0			
	22	2	0.5	3.0	2	0.8	4.1	1	0.6	6.8	0,0			
	23	2	0.5	3.0	2	0.8	4.1	1	0.6	6.6	0,0			
22	0	2	0.5	3.0	2	0.8	4.1	1	0.7	6.5	0,0			
	1	2	0.5	3.0	2	0.8	4.1	1	0.7	6.2	2	1.8	6.5	
	2	2	0.3	2.5	2	0.9	4.1	1	0.8	6.4	2	1.9	7.0	
	3	2	0.3	2.5	2	0.9	4.2	1	0.7	6.7	2	1.6	6.5	
	4	2	0.3	2.1	2	0.8	4.2	1	0.7	6.3	2	1.6	6.5	
	5	2	0.4	2.5	2	0.8	4.0	1	0.7	6.4	2	1.9	7.0	
	6	2	0.7	3.0	2	0.8	4.0	1	0.7	6.4	...			
	7	2	0.3	2.4	2	0.8	4.0	1	0.8	6.2	2	2.1	7.0	
	8	2	0.3	2.5	2	0.8	4.0	1	0.7	6.4	2	1.8	6.5	
	9	2	0.6	3.0	2	0.7	4.0	1	0.7	6.6	2	1.9	7.0	
	10	2	0.6	3.0	2	0.7	4.0	1	0.6	6.2	2	1.9	6.0	
	11	2	0.7	3.0	2	0.7	4.0	1	0.7	6.7	2	2.9	6.8	
	12	2	0.7	3.0	2	0.7	4.0	1	0.7	6.4	2	1.6	6.5	
	13	2	0.7	3.0	2	0.7	4.0	1	0.5	6.4	2	1.9	6.7	
	14	1	0.7	3.0	2	0.7	4.0	1	0.6	6.9	2	2.5	7.5	
	15	1	0.7	3.0	2	0.7	3.6	1	0.6	6.1	2	2.1	6.5	
	16	1	0.7	3.0	2	0.6	3.7	...			2	2.2	6.8	
	17	1	0.7	3.0	2	0.7	4.0	1	0.5	6.3	2	1.9	7.0	
	18	1	0.7	3.0	2	0.7	4.0	2	0.5	6.1	2	2.2	7.0	
	19	1	0.7	3.0	2	0.8	4.0	2	0.6	6.2	2	1.9	6.8	
	20	1	0.8	3.0	2	0.9	4.0	2	0.6	5.7	2	1.7	5.0	
	21	1	0.8	3.0	2	0.9	3.7	2	0.5	5.6	2	1.5	4.7	

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 22	22	1	0.9	3.0	2	0.9	3.8	2	0.7	5.8	2	
	23	1	0.9	3.0	2	0.8	4.0	2	0.6	5.8	2	2.0	5.0	
23	0	1	0.9	3.0	2	0.9	4.0	2	0.7	5.5	2	2.0	5.1	
	1	1	1.3	3.5	2	0.9	4.0	2	0.8	5.6	2	1.9	4.8	
	2	1	1.3	3.5	2	0.9	4.0	2	0.5	5.6	2	2.0	4.9	
	3	1	1.4	3.5	2	0.7	4.0	2	0.8	5.6	2	2.0	5.1	
	4	1	1.4	3.5	1	0.7	4.0	2	0.7	5.6	2	1.9	5.2	
	5	1	2.2	4.0	2	0.8	4.0	2	0.6	5.5	2	1.9	5.3	
	6	1	2.2	4.0	1	0.9	4.0	2	0.6	5.8	2	2.6	5.2	
	7	1	2.2	4.0	1	0.9	4.0	2	0.6	6.0	2	3.2	5.6	
	8	1	2.2	4.0	1	0.9	4.0	2	0.7	5.9	2	3.2	5.5	
	9	1	2.1	4.0	1	1.0	4.0	2	0.8	5.2	2	3.4	5.7	
	10	1	1.4	4.0	1	1.1	4.5	2	0.7	5.4	2	3.2	5.4	
	11	1	1.8	4.0	1	0.9	4.7	2	1.0	5.2	2	3.0	5.7	
	12	1	1.8	4.0	1	1.4	4.6	2	0.8	5.4	2	3.8	5.7	
	13	1	1.8	4.0	1	1.4	5.0	...			2	3.3	5.5	
	14	1	2.3	4.3	1	1.5	5.0	2	0.8	5.6	2	4.0	5.9	
	15	1	2.3	4.3	1	1.8	5.0	2	1.0	5.5	2	3.2	5.3	
	16	1	2.5	4.5	1	2.0	5.1	2	0.9	5.6	2	3.1	5.8	
	17	1	1.7	4.3	1	1.5	5.0	2	1.1	5.7	2	3.6	5.7	
	18	1	1.7	4.3	1	1.8	5.0	2	0.9	5.7	2	4.0	5.9	
	19	1	2.5	4.5	1	2.1	5.0	2	0.9	5.6	2	3.9	5.8	
	20	1	2.5	4.5	1	2.8	5.0	2	0.9	5.6	2	3.2	5.3	
	21	1	3.8	5.0	1	2.4	5.0	2	0.9	5.6	2	2.6	5.9	
	22	1	1.7	4.7	1	1.5	5.0	2	0.8	5.6	2	2.3	5.5	
	23	1	2.5	5.0	1	1.5	5.0	2	0.8	5.6	2	2.9	5.6	

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 23	23	1	2.5	5.0	1	1.5	5.0	2	0.8	5.6	2	
24	0	1	1.7	4.7	1	1.6	5.0	2	0.7	5.5	2	2.1	5.4	
	1	1	2.5	5.0	1	1.5	5.0	2	0.6	5.2	2	2.6	5.8	
	2	1	2.2	5.0	1	1.9	5.4	2	0.7	5.5	2	2.3	5.4	
	3	1	2.5	5.0	1	1.9	5.4	2	0.7	5.2	1	1.9	5.5	
	4	1	1.7	5.0	1	1.9	5.5	2	0.7	5.3	1	1.8	5.0	
	5	1	1.7	5.0	1	1.6	5.3	2	0.5	5.1	3	1.9	5.4	
	6	1	1.8	5.0	1	1.4	5.0	2	0.6	5.3	3	2.2	5.4	
	7	1	2.5	5.0	1	1.5	5.1	2	0.6	5.3	3	1.7	5.0	
	8	1	2.0	5.0	1	1.6	5.1	2	0.5	5.4	3	1.9	5.0	
	9	1	1.7	5.0	1	1.3	5.2	2	0.6	5.1	3	2.0	5.5	
	10	1	2.2	5.0	1	1.5	5.1	2	0.6	5.5	3	2.0	4.9	
	11	1	1.7	5.0	2	1.3	5.0	2	0.5	5.4	2	2.0	4.9	
	12	1	1.3	4.5	2	1.1	5.0	2	0.6	5.4	2	2.2	4.8	
	13	1	1.3	4.5	2	1.0	5.0	2	0.6	5.3	2	2.0	5.0	
	14	1	1.3	4.5	2	1.3	5.0	2	0.6	5.6	2	2.2	4.8	Halifax - storm end
	15	1	1.2	4.3	2	1.1	5.0	2	0.6	5.2	2	2.4	4.9	
	16	2	1.3	4.5	2	1.2	5.2	...			2	2.7	5.2	Paper change
	17	2	0.9	4.0	2	1.2	5.1	2	0.5	5.7	2	2.6	5.1	
	18	2	0.9	4.0	2	0.9	4.4	2	0.7	5.5	2	2.7	5.0	
	19	2	0.9	4.0	2	1.0	4.9	2	0.6	5.7	2	2.5	5.0	
	20	2	0.9	4.0	2	0.9	4.5	2	0.6	5.7	2	2.4	5.2	
	21	2	1.2	4.0	2	0.9	4.5	2	0.6	5.8	2	2.3	5.4	
	22	2	0.8	4.0	2	0.9	4.4	2	0.6	5.8	3	2.0	4.7	
	23	2	0.8	4.0	2	0.7	4.3	2	0.5	5.8	3	2.1	5.1	
25	0	2	0.7	4.0	2	0.7	4.3	2	0.5	5.5	3	2.1	5.0	

DOMINION OBSERVATORIES

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
		December 25	6	2	0.7	4.0	2	0.6	4.0	2	0.5	5.8	3	
	12	2	0.8	3.9	1	1.0	4.0	2	0.8	6.0	0,0			
	18	2	1.4	4.0	1	1.2	4.0	...			0,0			Earthquake
26	0	1	0.5	3.0	2	1.0	4.0	3	0.7	6.4	2	2.1	4.9	
	6	1	0.7	3.2	2	0.8	4.2	3	0.7	6.2	2	2.6	5.0	
	12	1	0.8	3.5	2	0.7	4.2	3	0.7	5.9	2	3.0	5.2	
	18	1	0.9	4.0	2	0.7	4.2	2	0.6	5.9	2	2.8	5.9	
27	0	1	0.4	3.0	2	0.6	4.0	2	0.6	5.8	3	2.2	5.6	
	3				1	0.8	3.5							
	6	2	0.6	3.0	1	1.2	3.7	2	0.5	5.3	3	1.9	6.0	Ottawa - storm start
	9	2	0.7	3.0	1	1.5	3.8							Halifax - storm start
	12	2	0.9	3.0	1	1.7	4.0	2	0.5	5.3	3	1.1	4.0	
	15	2	1.1	3.3	1	1.6	3.9							
	18	2	1.1	3.0	1	1.4	3.7	2	0.7	5.7	3	2.2	5.0	
	21	...			1	1.5	4.3							
28	0	2	0.8	2.6	1	1.7	4.3	2	0.6	5.8	3	1.6	5.0	
	3	2	1.3	3.0	1	1.5	4.3							
	6	2	1.3	3.2	1	1.4	4.3	2	0.8	5.8	3	1.5	6.0	
	9	2	1.6	3.2	1	1.4	4.2							
	12	2	1.5	3.7	2	1.1	4.1	2	0.7	5.9	3	1.7	6.0	
	15	2	1.5	3.7	...									Earthquake
	18	2	1.1	3.6	...			2	0.7	5.7	3	2.3	6.0	Ottawa - storm end
29	0	1	0.9	4.0	...			2	0.7	5.8	3	2.7	6.0	Halifax - storm end
	3							3	0.7	6.2				Resolute - storm start
	6	1	0.7	3.5	2	0.5	3.5	3	0.8	7.4	3	1.9	5.0	
	9							3	1.0	6.9				

DATE	H O U R	HALIFAX			OTTAWA			RESOLUTE			VICTORIA			REMARKS
		K	A	T	K	A	T	K	A	T	K	A	T	
December 29	12	1	0.7	3.5	2	0.5	4.0	3	1.1	7.3	3	2.3	7.0	Resolute - storm end
	15							3	1.1	7.7				
	18	1	0.5	3.7	2	0.7	4.0	3	1.1	7.5	2	1.9	6.0	
30	21							3	1.1	7.4				
	0	1	0.3	2.5	2	0.6	3.7	3	0.8	7.2	3	2.0	6.5	
	6	1	0.3	2.5	2	0.7	4.0	3	0.7	6.4	3	2.2	7.0	
31	12	2	0.3	2.7	2	0.7	4.0	3	0.5	6.8	3	1.5	6.0	
	18	2	0.3	2.5	2	0.7	4.0	3	0.5	5.8	0,0			
	0	2	0.2	2.2	2	0.6	4.1	3	0.5	5.8	0,0			
	6	2	0.1	2.0	2	0.7	4.5	3	0.5	6.3	0,0			
	12	2	0.1	2.5	2	0.7	4.5	3	0.5	6.0	0,0			
	18	2	0.1	2.0	...			3	0.6	6.2	0,0			

DOMINION OBSERVATORIES